Appendix I. Prescreen PACT Descriptive Statistics

	Coding			Tot	al ( $n = 64,740$	5)	Ma	les (n = 48,5)	560)	Fe	emales ( $n = 1$	6,186)
Item		Min.	Max.	%	Mean	SD	%	Mean	SD	%	Меап	SD
CRIMINAL HISTORY												
Age at first offense		0	4		2.23	1.21		2.24	1.22		2.19	1.18
Over 16	0			11.7			11.9			11.2		
16	1			16.8			16.4			17.6		
15	2			21.2			20.7			22.3		
13 to 14	3			38.0			37.7			38.8		
Under 13	4			12.4			13.3			10.1		
Misdemeanor complaints		0	3		0.59	0.84		0.60	0.85		0.56	0.80
None or one	0			61.0			61.0			61.0		
Two	1			22.1			21.4			23.8		
Three or four	2			13.9			14.3			13.1		
Five or more	3			3.0			3.3			2.2		
Felony complaints		0	6		0.81	1.31		0.96	1.40		0.47	0.99
None	0			66.8			61.5			79.6		
One	2			27.6			31.5			18.1		
Two	4			3.7			4.5			1.7		
Three or more	6			1.9			2.5			0.6		
Weapon complaints		0	1		0.06	0.23		0.08	0.26		0.02	0.14
None	0			94.1			92.5			98.1		
One or more	1			5.9			7.5			1.9		
Against-person misdemeanor		0	2		0.40	0.63		0.38	0.62		0.45	0.65
complaints												
None	0			67.5			69.1			63.8		
One	1			24.9			23.7			27.7		
Two or more	2			7.6			7.2			8.5		
Against-person felony complaints		0	4		0.25	0.68		0.30	0.73		0.15	0.53
None	0			87.7			85.5			92.9		
One or two	2			12.0			14.1			7.0		
Three or more	4			0.3			0.4			0.1		
Number of times served at least 24hrs		0	3		0.53	0.85		0.57	0.87		0.45	0.79
in detention												
None	0			64.4			62.3			69.3		
One	1			24.1			25.4			21.0		
Two	2			5.6			5.8			5.1		
Three or more	3			6.0			6.5			4.6		
Number of times served at least 24hrs		0	4		0.10	0.51		0.11	0.55		0.05	0.37
confined under JRA												
None	0			96.1			95.4			97.9		
One	2			2.9			3.5			1.7		
Two or more	4			0.9			1.1			0.4		
Escapes	<u> </u>	0	2		0.01	0.10		0.01	0.11	-	0.01	0.09
None	0	~		99.2		****	99.2	****	~	99.4		****
One	1			0.7			0.7			0.6		
Two or more	2			0.1			0.1			0.1		
Failure to appear in court warrants		0	2	~	0.23	0.58	V	0.23	0.57	~	0.25	0.59

None	0			84.1			84.5			83.2		
One	1			8.3			8.1			8.7		
Two or more	2			7.6			7.4			8.0		
SCHOOL												
School scoring		0	2		0.64	0.88		0.64	0.88		0.62	0.88
None of the following	0			63.5			63.0			64.7		
Enrolled: Problems reported by	1			9.5			9.7			8.8		
teachers or calls to parents, or												
some full-day unexcused absences,												
or mostly Cs and Ds, some Fs												
Enrolled: Calls to police, or	2			27.1			27.3			26.5		
truancy petition or equivalent, or												
some Ds and mostly Fs OR												
dropped out, expelled or suspended												
CURRENT												
FRIENDS/COMPANIONS		0			4.00	0.04		4.00	0.07		0.04	0.70
Friends/companions scoring	0	0	3	27.7	1.00	0.84	27.2	1.02	0.87	20.6	0.94	0.79
Has pro-social friends, no anti- social friends	U			21.1			27.3			28.6		
Has no friends, or pro-social and	1			53.4			53.0			54.3		
anti-social friends	1			33.4			55.0			34.3		
Has all anti-social friends	2			10.7			10.5			11.4		
Is a gang member/associate	3			8.2			9.3			5.7		
HISTORY OF COURT-	<u> </u>			0.2			7.3			3.1		
ORDERED OR DSHS												
VOLUNTARY OUT-OF-HOME &												
SHELTER CARE PLACEMENTS												
EXCEEDING 30 DAYS												
History of court-ordered placements		0	1		0.15	0.35		0.13	0.34		0.17	0.38
scoring												
None	0			85.5			86.7			82.6		
One, two or three/more	1			14.5			13.3			17.4		
HISTORY OF RUNAWAYS OR												
TIMES KICKED OUT OF HOME												
History of runaway scoring		0	2		0.55	0.84		0.49	0.80		0.71	0.90
No history	0			67.6			71.1			59.1		
One instance	1			9.5			9.1			10.6		
Two or more instances	2			22.9			19.8			30.2		
JAIL/IMPRISONMENT												
HISTORY					0.15	0.10		A 12	0.10		0	0.50
Jail/imprisonment scoring		0	1		0.43	0.49	50.4	0.42	0.49		0.46	0.50
No sibling(s), mother, father	0			57.2			58.4			54.5		
jail/imprisonment	4			42.0			41.6			45.5		
Sibling(s), mother or father	1			42.8			41.6			45.5		
jail/imprisonment  CURRENT PARENTAL												
AUTHORITY & CONTROL												
Parental authority and control scoring		0	2		1.14	0.99		1.13	0.99		1.17	0.99
Usually obeys	0	U	∠	43.0	1.14	0.99	43.7	1.13	0.99	41.5	1.1/	0.99
Sometimes obeys	1			0.0			0.0			0.0		
				U.U			U.U			U.U		

Disobeys	2			57.0			56.3			58.5		
ALCOHOL & DRUG USE												
Alcohol & drug use scoring		0	2		0.57	0.90		0.59	0.91		0.53	0.88
Current alcohol/drugs not causing	0			71.3			70.3			73.7		
family conflict, disrupting												
education, causing health												
problems, interfering with keeping												
pro-social friends or contributing												
to criminal behavior												
Current alcohol/drugs causing	2			28.7			29.7			26.3		
family conflict, or disrupting												
education, or causing health												
problems, or interfering with												
keeping pro-social friends or												
contributing to criminal behavior HISTORY OF ABUSE												
History of physical abuse scoring		0	1		0.23	0.42		0.19	0.39		0.32	0.47
No physical or sexual abuse	0	0	1	77.0	0.23	0.42	80.8	0.19	0.39	68.0	0.32	0.47
Physical or sexual abuse	1			23.0			19.2			32.0		
HISTORY OF BEING A VICTIM	1			23.0			19.2			32.0		
OF NEGLECT												
History of being a victim of neglect		0	2		0.28	0.69		0.26	0.67		0.33	0.74
scoring												
Not a victim of neglect	-1			86.1			87.1			83.6		
Victim of neglect	1			13.9			12.9			16.4		
HISTORY OF MENTAL												
HEALTH PROBLEMS												
History of mental health problems		0	1		0.12	0.32		0.10	0.31		0.15	0.35
scoring												
No history of mental health	0			88.3			89.5			85.5		
problem(s)												
Diagnosed with mental health	1			11.7			10.5			14.5		
problem(s), only medication												
prescribed, only treatment												
prescribed or medication and												
treatment prescribed												

## Appendix II. Full PACT Descriptive Statistics

	Dynamic item (X)	Coding			Tot	al ( $n = 50,86$	2)	Ma	les (n = 38,	100)	Fe	males ( <b>n</b> = 12	2,762)
Item			Min.	Max.	%	Mean	SD	%	Mean	SD	%	Mean	SD
CRIMINAL HISTORY													
Age at first offense			0	4		2.70	1.05		2.71	1.06		2.64	1.01
Over 16		0			4.2			4.3			3.9		_
16		1			10.5			10.4			10.8		
15		2			18.5			18.1			19.6		
13 to 14	•	3	•		45.5	•		44.5		·	48.4	•	

Under 13	4			21.4			22.8			17.4		
Misdemeanor complaints		0	3		1.08	1.02		1.08	1.03		1.09	0.97
None or one	0			37.8			38.7			35.0		
Two	1			26.0			25.0			29.1		
Three or four	2			26.2			25.7			27.9		
Five or more	3			9.9			10.6			8.0		
Felony complaints		0	6		1.48	1.69		1.65	1.74		0.96	1.40
None	0			46.9			41.9			61.6		
One	2			37.8			40.1			30.8		
Two	4			10.1			11.7			5.4		
Three or more	6			5.3			6.3			2.2		
Weapon complaints		0	1		0.10	0.30		0.13	0.33		0.04	0.19
None	0			89.6			87.5			96.1		
One or more	1			10.4			12.5			3.9		
Against-person misdemeanor		0	2		0.59	0.75		0.56	0.74		0.68	0.78
complaints												
None	0			56.9			58.8			51.2		-
One	1			27.0			26.2			29.3		
Two or more	2			16.1			15.0			19.5		
Against-person felony complaints		0	4		0.38	0.81		0.42	0.84		0.27	0.71
None	0			81.4			79.7			86.6		
One or two	2			18.1			19.8			13.1		
Three or more	4			0.5			0.5			0.3		
Sexual misconduct misdemeanor	· · · · · · · · · · · · · · · · · · ·	0	2		0.02	0.17		0.03	0.18		0.01	0.11
complaints												
None	0			97.7			97.5			99.2		
One	1			1.8			2.2			0.6		
Two or more	2			0.3			0.3			0.2		
Felony sex offense referrals		0	2		0.04	0.20		0.05	0.23		0.01	0.08
None	0			96.5			95.5			99.4		
One	1			3.3			4.2			0.5		
Two or more	2			0.3			0.3			0.0		
Number of times served at least 24hrs		0	3		1.41	1.10		1.42	1.10		1.37	1.09
in detention		Ť										
None	0			23.5			23.1			24.7		
One	1			36.5			36.4			36.6		
Two	2			15.6			15.5			16.0		-
Three or more	3			24.4			25.0			22.7		
Number of times served at least 24hrs		0	4		0.19	0.71		0.21	0.74		0.14	0.61
confined under JRA												
None	0			92.3			91.5			94.6		
One	2			5.8			6.4			3.9		
Two or more	4			1.9			2.1			1.5		
Escapes		0	2		0.02	0.13		0.02	0.13		0.02	0.14
None	0			98.5			98.6			98.4		
One	1			1.4			1.3			1.5		
Two or more	2			0.1			0.1			0.1		
Failure to appear in court warrants		0	2	J.1	0.53	0.79	V.1	0.51	0.78	V.1	0.62	0.83
None	0			65.8	0.55	V.17	67.5	0.01	0.70	60.7	0.02	
110110	· · · · · · · · · · · · · · · · · · ·			05.0			07.5			00.7		

One		1			15.1			14.5			16.9		
Two or more		2			19.1			18.0			22.4		
SCHOOL HISTORY					17.1			10.0			22.1		
Special education need			0	1		0.60	0.49		0.56	0.50		0.72	0.45
No need		0			60.2			56.2			72.1	****	
Need		1			39.8			43.8			27.9		
No special education need			0	1		-0.60	0.49		-0.56	0.50		-0.72	0.45
Need		0			39.9			43.9			28.0		
No need		1			60.1			56.1			72.0		-
Learning disability			0	1		0.20	0.40		0.22	0.42		0.14	0.34
No		0			79.9			77.7			86.3		
Yes		1			20.1			22.3			13.7		
Behavioral problem			0	1		0.21	0.40		0.23	0.42		0.14	0.34
No		0			79.3			77.0			86.3		
Yes		1			20.7			23.0			13.7		
Mental retardation			0	1		0.01	0.08		0.01	0.08		0.00	0.07
No		0			99.4			99.3			99.5		
Yes		1			0.6			0.7			0.5		
ADHD			0	1		0.15	0.36		0.18	0.38		0.08	0.28
No		0			84.7			82.4			91.5		
Yes		1			15.3			17.6			8.5		
History of expulsions and suspensions since the first grade			-1	2		1.54	0.96		1.61	0.89		1.33	1.11
None		-1			11.2			9.2			17.0		
One		1			12.6			11.5			16.1		
Two or more		2			76.2			79.3			66.9		
Age at first expulsion or suspension			-1	2		1.49	0.96		1.56	0.89		1.28	1.10
None		-1			11.2			9.2			17.0		
14 to 18		1			18.0			16.8			21.5		
13 or under		2			70.9			74.0			61.5		
Enrolled in a community school during the last 6 months	X		-2	2		-1.51	1.31		-1.52	1.30		-1.47	1.35
Graduated/enrolled		-2			87.7			88.0			86.9		
Not enrolled		2			12.3			12.0			13.1		
CURRENT SCHOOL STATUS													
Current school enrollment status	X		-2	3		-1.18	1.69		-1.15	1.73		-1.27	1.59
Full-time/graduated		-2			72.6			72.2			73.6		
Part-time		-1			13.8			13.5			14.7		
Drop-out, expelled, or suspended		3			13.6			14.2			11.7		
Youth believes there is value in getting	X		-1	2		0.43	1.11		0.46	1.10		0.32	1.12
an education													
Believes		-1			35.3			33.8			39.9		
Somewhat believes		1			51.2			52.1			48.3		
Does not believe		2			13.5			14.1			11.9		
Youth believes school provides an encouraging environment for him or	X		-1	2		0.85	1.07		0.86	1.06		0.83	1.08
her								24.1			25.5		
Believes		-1			21.9			21.6			23.0		
Somewhat believes		1			49.2			49.4			48.5		

Does not believe		2			28.9			29.0			28.5		
School staff youth likes or feels	X		-2	0		-0.59	0.75		-0.59	0.75		-0.60	0.75
comfortable talking with													
Two or more		-2			16.1			16.2			15.9		
One		-1			27.2			26.8			28.5		
None		0			56.6			57.0			55.6		
Involvement in school activities	X		-2	2		1.17	1.14		1.15	1.16		1.23	1.11
during most recent term													
Involved in two or more		-2			4.0			4.1			3.4		
Involved in one		-1			11.5			11.9			10.6		
Interested but not involved		1			32.4			32.7			31.5		
Not interested		2			52.1			51.3			54.5		
Conduct in most recent term	X		-2	3		1.04	1.55		1.09	1.55		0.89	1.56
Good behavior		-2			1.6			1.5			1.9		
No problems		-1			30.4			29.4			33.7		
Problems reported by teachers	-	1			16.4			16.3			16.6		-
Problem calls to parents	-	2			33.6			33.6			33.3		-
Calls to police		3			18.1			19.2			14.6		-
Number of expulsions & suspensions	X		-1	3		0.24	1.34		0.30	1.35		0.06	1.29
in most recent term													
None		-1			50.2			48.0			56.9		
One		1			30.6			31.5			27.8		
Two or three		2			13.8			14.6			11.3		
More than three		3			5.4			5.9			4.0		
Attendance in most recent term	X		-2	3		1.09	1.79		1.01	1.80		1.31	1.77
Good attendance		-2			14.5			15.1			12.7		
No unexcused absences		-1			14.2			15.0			11.9		
Some partial-day absences		1			18.2			18.8			16.1		
Some full-day absences		2			25.7			25.8			25.5		
Truant		3			27.4			25.3			33.8		
Academic performance in most recent	X		-3	2		0.71	1.32		0.74	1.30		0.61	1.38
term													
Mostly As		-3			0.6			0.5			0.8		
Mostly As and Bs		-2			4.8			4.4			6.1		
Mostly Bs and Cs		-1			23.9			23.2			26.1		-
Mostly Cs and Ds		1			35.5			6.5			32.3		-
Some Ds and mostly Fs		2			35.2			35.4			34.7		
Likelihood youth will stay in and	X		-1	2		0.80	1.01		0.81	1.01		0.75	1.02
graduate from high school or													
vocational school													
Very likely		-1			21.2			20.8			22.5		
Uncertain		1			56.9			56.6			57.7		
Not likely		2			21.9			22.7			19.8		
HISTORIC USE OF FREE TIME													
History of pro-social structured			-2	0		-0.93	0.77		-0.94	0.77		-0.89	0.77
recreational activities within past 5yrs													
Involved in two or more		-2			26.5			27.0			24.9		
Involved in one		-1			39.8			40.1			38.9		
Never involved		0			33.7			32.9			36.1		

III. 6 1			2	0		1.00	0.74		1 11	0.74		0.00	0.75
History of unstructured pro-social recreational activities within past 5yrs			-2	0		-1.08	0.74		-1.11	0.74		-0.99	0.75
Involved in two or more		-2			31.6			33.0			27.2		
Involved in one		-1			44.5			44.6			44.1		
Never involved		0			23.9			22.3			28.7		
CURRENT USE OF FREE TIME													
Current interest & involvement	X		-3	0		-0.80	0.87		-0.82	0.88		-0.75	0.85
supervised, structured pro-social													
recreational activities													
Involved in two or more		-3			4.4			4.7			3.5		
Involved in one		-2			16.8			17.1			16.0		
Interested but not involved		-1			33.1			33.3			32.7		
Not interested		0			45.6			44.9			47.8		
Types of structured recreational	X												
activities in which youth currently													
participates													
No pro-social activities			0	1		0.21	0.41		0.21	0.41		0.19	0.39
None		0			79.1			78.5			80.8		
One or more		1			20.9			21.5			19.2		
Current interest & involvement in	X		-3	1		-1.17	1.48		-1.24	1.47		-0.95	1.50
pro-social unstructured recreational													
activities													
Involved in two or more		-3			19.5			20.7			15.8		
Involved in one		-2			33.0			34.3			29.1		
Interested but not involved		-1			19.9			19.1			22.2		
Not interested		1			27.7			25.9			33.0		
EMPLOYMENT HISTORY													
History of employment			-1	0		-0.22	0.42		-0.23	0.42		-0.19	0.40
Has been employed		-1			22.2			23.1			19.4		
Too young or never employed		0			77.8			76.9			80.6		
History of successful employment		-	-1	0		-0.79	0.40		-0.80	0.40		-0.77	0.42
Yes		-1			79.5			80.1			77.4		
No		0			20.5			19.9			22.6		
History of problems while employed			0	2		0.42	0.66		0.39	0.65		0.51	0.71
Never fired/quit		0			68.2			69.9	0.07		61.9		01.12
Fired/quit: Poor performance		1			22.1			21.1			25.5		
Fired/quit: Didn't get along		2			9.8			9.0			12.6		
History of positive personal			-2	0	7.0	-0.89	0.74	7.0	-0.90	0.74	12.0	-0.88	0.75
relationship(s) with past employer(s)			-	· ·		0.07	0.71		0.20	0.71		0.00	0.75
or adult coworker(s)													
Two or more		-2			22.5			22.5			22.8		
One		-1			44.2			44.7			42.5		
None		0			33.2			32.8			34.7		
CURRENT EMPLOYMENT					55.2			52.0			J		
Understanding of what is required to	X		-2	0		-0.64	0.65		-0.65	0.65		-0.62	0.64
maintain a job			-	V		0.01	0.00		0.00	0.03		0.02	0.01
Demonstrated ability		-2			9.5			9.8			8.8		
Has knowledge		-1			44.8			45.0			44.3		
Lacks knowledge		0			45.6			45.2			46.9		
Lucia knowieuge					73.0			73.4			70.7		

Current interest in employment	X		-3	0		-0.96	0.93		-0.98	0.93		-0.90	0.92
Employed		-3			5.7			5.9			5.1		
Not employed, high interest		-2			23.7			24.1			22.5		
Not employed, some interest		-1			31.4			31.8			30.1		
Not interested or too young		0			39.2			38.2			42.3		
Current employment status	X		-1	1		-0.15	0.51		-0.09	0.30		-0.08	0.29
Employment going well		-1			9.2			9.4			8.5		
Not employed		0			90.4			90.2			91.0		
Problems with current		1			0.5			0.5			0.5		
employment													
Current positive personal	X		-1	0		-0.15	0.35		-0.15	0.35		-0.14	0.35
relationship(s) with employer(s) or													
adult coworker(s)													
One or more positive		-1			14.5			14.6			14.4		
relationships													
Not employed or employed, no		0		_	85.5			85.4			85.6		
positive relationships													
HISTORY OF RELATIONSHIPS													
History of positive adult non-family			-3	0		-0.81	0.92		-0.81	0.92		-0.81	0.91
relationships no connected to school													
or employment													
Three or more		-3			7.1			7.2			6.9		
Two		-2			13.1			13.0			13.4		
One		-1			33.4			33.1			34.1		
None		0			46.5			46.7			45.7		
History of anti-social			-1	3		1.35	1.02		1.38	1.05		1.32	0.94
friends/companions (overall)													
Only prosocial		-1			7.2			7.5			6.2		
No friends or mix of antisocial		1			61.6			60.5			64.9		
and prosocial friends													
Only antisocial		2			11.8			11.2			13.8		
Gang member		3			19.4			20.8			15.1		
Never had consistent friends			0	1		0.06	0.24		0.07	0.25		0.05	0.22
No		0			93.7			93.3			94.8		
Yes		1			6.3			6.7			5.2		
Only pro-social friends			0	1		0.75	0.43		0.74	0.44		0.76	0.43
No		0			25.2			25.5			24.3		
Yes		1			74.8			74.5			75.7		
Pro-social and anti-social			0	1		0.68	0.47		0.67	0.47		0.70	0.46
friends													
No		0			32.4			33.1			30.5		
Yes		1			67.6			66.9			69.5		
Only anti-social friends			0	1		0.86	0.35		0.85	0.35		0.88	0.32
No		0	-	-	14.0			14.7			11.6		J
Yes		1			86.0			85.3			88.4		
Gang member		-	0	1	00.0	0.19	0.40	00.0	0.21	0.41	00.1	0.15	0.36
		0		*	80.6	V.1.7	00	79.2	V.=1	V.1.2	84.9	0.10	0.00
No													

Current positive adult non-family relationships not connected to school	X		-3	0		-0.73	0.88		-0.72	0.88		-0.73	0.88
or employment													
Three or more		-3			5.9			6.0			5.9		
Two		-2			11.2			11.1			11.3		
One		-1			32.5			32.3			32.8		
None		0			50.5			50.6			50.1		
Current pro-social community ties	X		-2	0		-0.64	0.56		-0.65	0.56		-0.63	0.56
Strong ties		-2			4.3			4.4			3.8		
Some ties		-1			55.7			55.7			55.5		
None		0			40.1			39.9			40.7		
Current friends/companions youth	X		-1	3		1.42	1.07		1.43	1.10		1.38	0.99
spends time with (overall)													
Only prosocial		-1			8.3			8.6			7.1		
No friends or mix of antisocial		1			54.3			53.6			56.3		
and prosocial													
Only antisocial		2			16.9			15.6			20.7		
Gang member		3			20.6			22.1			15.9		
No consistent friends		-	0	1		0.09	0.28		0.09	0.29		0.08	0.27
No		0	-		91.3			91.0			92.3		
Yes		1			8.7			9.0			7.7		
Only pro-social friends		-	0	1	0.7	0.64	0.49	,,,	0.64	0.48	, . ,	0.64	0.48
No		0		-	35.7	0.01	0.17	35.6	0.01	0.10	36.0	0.01	0.10
Yes		1			64.3			64.6			64.0		
Pro-social and anti-social		1	0	1	04.5	0.56	0.50	04.0	0.56	0.50	01.0	0.57	0.50
friends			V	1		0.50	0.50		0.50	0.50		0.57	0.50
No		0			44.0			44.3			43.2		
Yes		1			56.0			55.7			56.8		
Only anti-social friends		1	0	1	30.0	0.83	0.38	33.1	0.82	0.38	30.0	0.85	0.36
No		0		1	17.2	0.03	0.50	17.9	0.02	0.50	14.8	0.03	0.30
Yes		1			82.8			82.1			85.2		
Is a gang member		1	0	1	02.0	0.21	0.40	02.1	0.22	0.42	03.2	0.16	0.37
No		0	0	1	79.4	0.21	0.40	77.9	0.22	0.42	84.1	0.10	0.57
Yes		1			20.6			22.1			15.9		
Currently in a romantic, intimate, or	X	1	-1	1	20.0	-0.03	0.56	22.1	-0.10	0.51	15.9	0.20	0.63
sexual relationship	Λ		-1	1		-0.03	0.50		-0.10	0.51		0.20	0.05
Involved with prosocial person		1			17.0			18.8			11.9		
		-1			68.7			72.7			56.5		
Not involved		0						8.5					
Involved with antisocial person	37	1		2	14.3	0.77	4.00	8.5	0.74	4.00	31.6	0.70	4.07
Currently admires anti-social peers	X		-1	2	2.1.1	0.77	1.08	211	0.76	1.08	22.2	0.78	1.07
No S. L.		-1			24.1			24.4			23.2		
Somewhat		1			50.7			50.3			52.0		
Yes		2			25.2	0.00		25.3	^ ^=		24.8	0.45	4
Current resistance to anti-social peer	X		-2	2		0.09	1.23		0.07	1.24		0.12	1.20
influence					10.0			40.0			0.6		
No association		-2			10.3			10.8			8.6		
Usually resists		-1			33.9			33.7			34.4		
Rarely resists		1			48.8			48.1			50.7		
Leads antisocial peers		2			7.1			7.3			6.3		

FAMILY HISTORY													
History of court-ordered or DSHS			-1	3		-0.37	1.21		-0.44	1.16		-0.18	1.35
voluntary out-of-home and shelter													
care placements exceeding 30 days													
None		-1			76.7			79.0			70.0		
One		1			13.1			12.1			16.1		
Two		2			4.0			3.6			5.5		
Three or more		3			6.1			5.3			8.5		
History of running away or getting			-1	4		1.02	1.97		0.74	1.91		1.83	1.93
kicked out of home													
No history		-1			43.3			49.3			25.3		
One instance		1			13.1			13.3			12.6		
Two to three		2			17.5			16.4			20.7		
Four to five		3			7.2			6.1			10.5		
Over five		4			18.9			14.9			30.8		•
History of petitions filed			-1	1		-0.57	0.82		-0.63	0.78		-0.41	0.91
No history		-1			78.7			81.4			70.5		
History		1			21.3			18.6			29.5		
History of jail/imprisonment of			-1	1		0.28	0.96		0.24	0.97		0.37	0.93
persons involved in the household for													
at least 3 months (overall)													
No history		-1			36.2			37.8			31.3		
History		1			63.8			62.2			68.7		
No family imprisonment			0	1		0.36	0.48		0.38	0.49		0.32	0.46
History		0			63.7			62.1			68.5		
No history		1			36.3			37.9			31.5		•
Mother/female caretaker			0	1		0.31	0.46		0.29	0.45		0.38	0.49
No		0			68.7			71.1			61.8		
Yes		1			31.3			28.9			38.2		
Father/male caretaker			0	1		0.43	0.50		0.43	0.49		0.45	0.50
No		0			56.6			57.2			54.7		
Yes		1			43.4			42.8			45.3		
Sibling			0	1		0.21	0.41		0.20	0.40		0.24	0.42
No		0			78.8			79.6			76.4		
Yes		1			21.2			20.4			23.6		
Other family member			0	1		0.08	0.26		0.07	0.25		0.09	0.29
No		0			92.5			93.1			90.5		
Yes		1			7.5			6.9			9.5		
Has been living under any adult	X		-1	1		-0.95	0.30		-0.96	0.28		-0.94	0.34
supervision													
Yes		-1			97.7			98.0			96.9		
No		1			2.3			2.0			3.1		
CURRENT LIVING ARRANGEMENTS													
Currently living with (overall)	X		-1	1		-0.83	0.39		-0.84	0.38		-0.80	0.42
Mother or father		-1			83.5			84.4			80.7		
Living alone or with other		0			15.9			15.0			18.6		
Transient		1			0.6			0.5			0.7		
1 1311816111													

No		0			99.9			99.9			99.9		
Yes		1			0.1			0.1			0.1		
Transient living			0	1		0.01	0.08		0.01	0.08		0.01	0.10
No		0			99.3			99.4			99.1		
Yes		1			0.7			0.6			0.9		
Mother			0	1		0.73	0.44		0.74	0.44		0.70	0.46
No		0			27.0			26.1			29.5		
Yes		1			73.0			73.9			70.5		
Father			0	1		0.45	0.50		0.47	0.50		0.40	0.49
No		0			54.6			52.7			60.4		
Yes		1			45.5			47.3			39.6		
Sibling(s)			0	1		0.60	0.49		0.61	0.49		0.56	0.50
No		0			40.5			39.4			43.6		
Yes		1			59.5			60.6			56.4		-
Grandparent(s)			0	1		0.11	0.32		0.11	0.31		0.12	0.33
No		0			88.6			88.8		0.0-	87.9	****	
Yes		1			11.4			11.2			12.1		
Other relative(s)			0	1	1111	0.17	0.38	1112	0.16	0.37	12.11	0.19	0.39
No		0			82.9	0.17	0.50	83.6	0.10	0.57	81.1	0.17	0.57
Yes		1			17.1			16.4			18.9		
Foster/group home		1	0	1	17.1	0.05	0.22	10.7	0.04	0.20	10.7	0.07	0.25
No		0	0	1	95.1	0.03	0.22	95.7	0.04	0.20	93.3	0.07	0.23
Yes		1			4.9			4.3			6.7		
Friends		1	0	1	4.9	0.02	0.13	4.3	0.02	0.13	0.7	0.02	0.15
No		0	0	1	98.2	0.02	0.13	00.4	0.02	0.13	97.8	0.02	0.13
Yes		1						98.4			2.2		
	37	I	-2	2	1.8	0.07	1.00	1.6	0.04	1.01	2.2	0.95	1.15
Annual combined income youth & family	X		-2	2		0.87	1.20		0.84	1.21		0.95	1.15
		-2			7.2			77			( )		
\$50,000 and over \$35,000 to \$49,000					7.3			7.7 12.1			6.0		
\$35,000 to \$49,000 \$15,000 to \$34,999		-1 1			11.9 48.7						11.0 48.2		
								48.9					
Under \$15,000	37	2	4		32.2	0.00	1.00	31.3	0.40	4.00	34.8	0.04	1.00
Jail/imprisonment history of persons	X		-1	1		-0.08	1.00		-0.10	1.00		-0.01	1.00
involved with the household (overall)		4			52.6			55.0			50.4		
No history		-1			52.6			55.0			50.4		
History		1			46.2	2.51	0.50	45.0	0.55	0.50	49.6	0.50	0.50
No jail			0	1	44.0	0.54	0.50	15.4	0.55	0.50	F . 4	0.50	0.50
Imprisoned		0			46.3			45.1			50.1		
Not imprisoned		1			53.7			54.9			49.9		
Mother			0	1		0.20	0.40		0.19	0.39		0.24	0.43
No		0			80.0			81.5			75.5		
Yes		1			20.0			18.5			24.5		
Father			0	1		0.21	0.41		0.21	0.41		0.20	0.40
No		0			79.1			78.9			79.7		
Yes		1	·		20.9			21.1			20.3		
Sibling			0	1		0.15	0.36		0.15	0.36		0.16	0.37
No		0			84.9			85.2			84.0		
Yes		1			15.1			14.8			16.0		
Other family member			0	1		0.05	0.21		0.04	0.20		0.06	0.24
-													

Yes	No		0			95.2			95.6			94.0		
with thousehold (overlations)         1         48.1         49.8         42.5         45.7         48.1         48.1         48.8         48.8         48.7         48.1         48.1         48.1         48.8 <th< th=""><th>Yes</th><th></th><th>1</th><th></th><th></th><th>4.8</th><th></th><th></th><th>4.4</th><th></th><th></th><th>6.0</th><th></th><th></th></th<>	Yes		1			4.8			4.4			6.0		
No history   1		X		-1	1		0.04	1.00		0.00	1.00		0.14	0.99
History			-1			48.1			49.8			42.9		
History	History		1			51.9								
No history	No problem history			0	1		0.48	0.50		0.50	0.50		0.43	0.05
No	History		0			51.6			49.8			56.9		
No         0         74,4         75,5         71,1         71,1         2         2         7         1         25,0         2,1         0,25         0,44         0,25         0,44         0,25         0,44         0,25         0,44         0,25         0,44         0,25         0,44         0,25         0,44         0,05         0,44         0,05         0,44         0,05         0,44         0,05         0,44         0,05         0,44         0,05         0,44         0,05         0,44         0,05         0,44         0,05         0,04         0,05         0,05         0,04         0,05	No history		1			48.4			50.2			43.1		
Yes         1         256         245         289         30         4         4         20         41         022         041         021         041         025         044           No         0         780         791         745         3         2         2         2         2         2         2         2         2         2         2         3         2         1         0         8         8         2         8         2         1         1         1         4         4         3         0         1         1         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         4         <	Alcohol history			0	1		0.26	0.44		0.25	0.43		0.29	0.45
Dug history   0   1   0   2   041   0,21   0,41   0,25   0,44   No	No		0			74.4			75.5			71.1		
No         0         78,0         79,1         74,5         75,5           Yes         1         22,0         29,1         25,5         75           Physical health bistory         0         1         0,17         0,37         0,16         0,37         0,18         0,38           No         0         1         16,5         16,0         13         0,34         0,18         0,38           No         0         1         16,5         16,0         13         0,34         0,18         0,38           No         0         1         16,5         16,0         13         0,34         0,18         0,38           No         0         1         14,2         13,1         0,3         1,01         0,18         0,38           Yes         1         1         14,2         13,1         1,02         1,02         1,02         1,02         1,02         1,03         0,02         0,03         0,04         0,03         0,04         0,04         0,03         0,04         0,08         0,04         0,08         0,04         0,08         0,08         0,08         0,08         0,08         0,08         0,08         0,08         <	Yes		1			25.6			24.5			28.9		
Yes         1         220         209         255         The part of	Drug history			0	1		0.22	0.41		0.21	0.41		0.25	0.44
Yes         1         220         209         255         The stand plant p	No		0			78.0			79.1			74.5		
No         0         88.5         84.0         82.0           Yes         1         16.5         16.0         180         1           Mental health history         0         1         0.14         0.35         0.13         0.34         0.18         0.38           No         0         0         85.8         86.9         82.4         1         0.38         0.38           Yes         1         14.2         0.31         0.3         0.2         0.26         0.44           No         0         76.2         76.9         76.9         74.0	Yes		1			22.0			20.9					
Yes         1         16.5         16.0         18.0	Physical health history			0	1		0.17	0.37		0.16	0.37		0.18	0.38
Yes         1         16.5         16.0         18.0			0						84.0			82.0		
No         0         85.8         86.9         82.4	Yes		1			16.5			16.0			18.0		
Yes         1         14.2         13.1         17.6         Temployment history         0         1         0.24         0.33         0.23         0.42         0.26         0.44           No         0         76.2         76.9         77.9         74.0         74.0         75.0         75.0         74.0         74.0         75	Mental health history			0	1		0.14	0.35		0.13	0.34		0.18	0.38
Employment history     0	No		0			85.8			86.9			82.4		
Employment history     0   1   0.24   0.43   0.25   0.42   0.26   0.44   No   No   No   1   0.25   0.76   0.25   0.76   0.26   0.26   0.26   0.27   0.26   0.27   0.26   0.28	Yes		1			14.2			13.1			17.6		
No         0         76.2         76.9         74.0         20.0         74.0         20.0         74.0         20.0         20.1         20.0         20.0         0.076         0.076         0.08         0.09         0.09         0.09         0.09         0.09         0.09         0.09         0.09         0.09         0.09         0.	Employment history			0	1		0.24	0.43		0.23	0.42		0.26	0.44
Yes         1         23.8         23.1         26.0			0			76.2			76.9			74.0		
with the household (overall)         44.8         46.2         40.7         47.8         48.8         48.5         48.5         48.7         48.7         48.8         48.5         48.5         48.7         48.7         48.8         48.5         48.6         48.7         48.7         48.8         48.3         48.7         48.7         48.8         48.8         48.3         48.7         48.8         <	Yes		1						23.1					
with the household (overall)         44.8         46.2         40.7         47.8         48.8         48.5         48.5         48.7         48.7         48.8         48.5         48.5         48.7         48.7         48.8         48.5         48.6         48.7         48.7         48.8         48.3         48.7         48.7         48.8         48.8         48.3         48.7         48.8         <	Problem history of sibling involved	X		-1	1		-0.25	0.76		-0.27	0.76		-0.18	0.78
No siblings	with the household (overall)													
History	No history		-1						46.2			40.7		
No siblings in the house         0         1         0.65         0.48         0.66         0.47         0.64         0.48           None         0         34.6         34.3         35.6         ————————————————————————————————————	No siblings		0			35.4						36.7		
None         0         34.6         34.3         35.6           One or more         1         65.4         65.7         64.4           No problem history of siblings         0         1         0.44         0.50         0.50         0.50         0.90           History         0         56.0         54.5         60.3         56.2         56.3         56.2         56.3         56.2         56.2         56.2         56.2         56.2         56.2         56.2         56.2         56.2         56.2         56.3         56.3         56.3         56.3         56.3         56.3         56.3         56.3	History		1			19.8			18.8			22.6		
One or more         1         65.4         65.7         64.4           No problem history of siblings         0         1         0.44         0.50         0.45         0.50         0.50         0.49           History         0         56.0         54.5         60.3         54.5         60.2         60.	No siblings in the house			0	1		0.65	0.48		0.66	0.47		0.64	0.48
No problem history of siblings	None		0			34.6			34.3					
History         0         56.0         54.5         60.3           No history         1         44.0         45.5         39.7           Alcohol history         0         1         0.10         0.30         0.09         0.29         0.12         0.32           No         0         90.1         90.6         88.5         15.5<	One or more		1			65.4			65.7			64.4		
History         0         56.0         54.5         60.3           No history         1         44.0         45.5         39.7           Alcohol history         0         1         0.10         0.30         0.09         0.29         0.12         0.32           No         0         90.1         90.6         88.5         11.5         1.5 <td>No problem history of siblings</td> <td></td> <td></td> <td>0</td> <td>1</td> <td></td> <td>0.44</td> <td>0.50</td> <td></td> <td>0.45</td> <td>0.50</td> <td></td> <td>0.50</td> <td>0.49</td>	No problem history of siblings			0	1		0.44	0.50		0.45	0.50		0.50	0.49
Alcohol history         0         1         0.10         0.30         0.09         0.29         0.12         0.32           No         90.1         90.1         90.6         88.5         11.5         15.5         11.5 <td< td=""><td>History</td><td></td><td>0</td><td></td><td></td><td>56.0</td><td></td><td></td><td>54.5</td><td></td><td></td><td>60.3</td><td></td><td></td></td<>	History		0			56.0			54.5			60.3		
No         0         90.1         90.6         88.5           Yes         1         9.9         9.4         11.5           Drug history         0         1         0.13         0.34         0.12         0.33         0.15         0.35           No         0         87.0         87.5         85.4         4         4         4         4         4         4         4         4         4         4         4         4         5         85.4         4         4         4         5         85.4         4         4         5         8         4         4         4         5         6         4<	No history		1			44.0			45.5			39.7		
Yes         1         9.9         9.4         11.5           Drug history         0         1         0.13         0.34         0.12         0.33         0.15         0.35           No         0         87.0         87.5         85.4         1         1.6         1.7         12.5         14.6         1.7         1.6         1.7         0.02         0.12         0.02         0.14         0.02         0.14         0.02         0.14         0.02         0.14         0.02         0.14         0.02         0.14         0.02         0.14         0.02         0.14         0.02         0.14         0.02         0.14         0.02         0.14         0.02         0.14         0.02         0.14         0.02         0.14         0.02         0.14         0.02         0.14         0.02         0.14         0.02         0.14         0.02         0.03         0.05         0.22         0.07         0.25         0.05         0.02         0.07         0.25         0.05         0.02         0.07         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05	Alcohol history			0	1		0.10	0.30		0.09	0.29		0.12	0.32
Drug history         0         1         0.13         0.34         0.12         0.33         0.15         0.35           No         0         87.0         87.5         85.4         4         4         4         4         4         5         4         4         4         5         4         4         5         4         5         4         5         4         5         6         8         4         7         1         6         9			0											
No         0         87.0         87.5         85.4           Yes         1         13.0         12.5         14.6           Physical health history         0         1         0.02         0.13         0.02         0.12         0.02         0.14           No         0         98.3         98.4         97.9	Yes		1			9.9			9.4			11.5		
Yes         1         13.0         12.5         14.6           Physical health history         0         1         0.02         0.13         0.02         0.12         0.02         0.14           No         0         98.3         98.4         97.9         9	Drug history			0	1		0.13	0.34		0.12	0.33		0.15	0.35
Physical health history         0         1         0.02         0.13         0.02         0.12         0.02         0.14           No         0         98.3         98.4         97.9         ————————————————————————————————————			0			87.0						85.4		
No         0         98.3         98.4         97.9           Yes         1         1.7         1.6         2.1           Mental health history         0         1         0.05         0.23         0.05         0.22         0.07         0.25           No         0         94.6         95.0         93.2			1			13.0			12.5			14.6		
Yes         1         1.7         1.6         2.1           Mental health history         0         1         0.05         0.23         0.05         0.22         0.07         0.25           No         0         94.6         95.0         93.2         93.2         93.2         94.6         95.0         6.8         95.0         6.8         95.0         0.03         0.17         0.03         0.17         0.04         0.18           Employment history         0         1         0.03         0.17         0.03         0.17         0.04         0.18	Physical health history			0	1		0.02	0.13		0.02	0.12		0.02	0.14
Yes         1         1.7         1.6         2.1           Mental health history         0         1         0.05         0.23         0.05         0.22         0.07         0.25           No         0         94.6         95.0         93.2         93.2         93.2         94.6         95.0         6.8         95.0         6.8         95.0         0.03         0.17         0.03         0.17         0.04         0.18           Employment history         0         1         0.03         0.17         0.03         0.17         0.04         0.18	No		0			98.3			98.4			97.9		
No         0         94.6         95.0         93.2           Yes         1         5.4         5.0         6.8           Employment history         0         1         0.03         0.17         0.03         0.17         0.04         0.18			1			1.7						2.1		
No         0         94.6         95.0         93.2           Yes         1         5.4         5.0         6.8           Employment history         0         1         0.03         0.17         0.03         0.17         0.04         0.18	Mental health history			0	1		0.05	0.23		0.05	0.22		0.07	0.25
Yes         1         5.4         5.0         6.8           Employment history         0         1         0.03         0.17         0.03         0.17         0.04         0.18	No		0			94.6			95.0			93.2		
	Yes		1											
	Employment history			0	1		0.03	0.17		0.03	0.17		0.04	0.18
			0			96.9			97.0			96.5		

Yes		1			3.1			3.0			3.5		
Support network for family	X	1	-2	0	5.1	-0.97	0.58	3.0	-0.98	0.58	3.3	-0.93	0.57
Strong	- 11	-2			15.3	0.57	0.50	16.1	0.70	0.50	12.9	0.73	0.57
Some		-1			66.2			65.8			67.3		
None		0			18.5			18.1			19.8		
Family willingness to help support	X		-1	3	10.5	0.00	1.19	10.1	-0.05	1.17	17.0	0.16	1.23
youth	21		1	3		0.00	1.17		0.03	1.17		0.10	1.25
Consistent willingness		-1			56.0			58.1			49.6		
Inconsistent support		1			35.6			34.1			40.2		
Not willing		2			5.2			5.0			5.8		
Hostile, berating, belittling		3			3.3			2.9			4.4		
Family provides opportunities for	X		-1	2	3.3	0.78	0.93		0.76	0.94		0.85	0.91
youth to participate in family activities			•	-		0.70	0.75		0.70	0.21		0.05	V., 1
and decisions affecting youth													
Yes		-1			19.0			19.8			16.6		
Some		1			65.0			65.1			64.8		
No		2			16.0			15.1			18.6		
Has run away or been kicked out	X		-1	2		-0.15	1.03		-0.26	1.00		0.15	1.05
No		-1			58.9			63.8			44.3	0.120	
Yes		1			38.6			34.2			51.8		
Current runaway		2			2.5			2.0			3.9		
Family member(s) youth feels close to	X		-1	1		-0.59	0.81		-0.62	0.79		-0.51	0.86
or has good relationship with (overall)			•	•		0.07	0.01		0.02	0.17		0.01	0.00
Close		-1			79.5			80.8			75.4		
Not close		1			20.5			19.2			24.6		
Not close to family			0	1		0.20	0.40		0.19	0.39		0.24	0.43
Close		0			79.9			81.2	,	0.07	76.2		
Not close		1			20.1			18.8			23.8		
Close to mother			0	1		0.50	0.50		0.52	0.50		0.44	0.50
Not close		0			50.1	0.00		48.1			56.2		
Close		1			49.9			51.9			43.8		
Close to father			0	1		0.21	0.41		0.24	0.42		0.14	0.35
Not close		0			78.7			76.4		****	85.7		
Close		1			21.3			23.6			14.3		
Close to male sibling			0	1		0.18	0.38		0.20	0.40		0.13	0.33
Not close		0			82.2	0.20		80.5			87.3	0.120	
Close		1			17.8			19.5			12.7		
Close to female sibling			0	1	2,110	0.16	0.36		0.15	0.35		0.18	0.39
Not close		0			84.4	0.120		85.3			81.6	0.120	
Close		1			15.6			14.7			18.4		
Close to extended family			0	1		0.19	0.39	***	0.19	0.39		0.20	0.40
Not close		0	<u> </u>	-	80.8			80.9			80.3		
Close		1			19.2			19.1			19.7		
Level of conflict in household	X	-	-1	3		0.84	1.41		0.74	1.40		1.14	1.39
Some, well-managed		-1	•		30.4	V.V.		33.2	VII.	****	22.1	****	
Verbal intimidation		1			42.9			42.5			43.9		
Threats of physical abuse		2			8.9			8.6			9.7		
Domestic violence		3			17.8			15.7			24.3		
Parental supervision	X		-1	2	17.0	0.49	1.22	15.7	0.47	1.21	41.5	0.56	1.22
- aretrar supervision			1			U.T/	1.22		U.T/	1.41		0.50	1.44

Consistent		-1			37.4			38.1			35.4		
Sporadic		1			38.6			38.7			38.3		
Inadequate		2			24.0			23.2			26.3		
Parental authority and control	X		-1	2		0.90	1.02		0.86	1.03		1.04	0.97
Usually obeys		-1			19.0			20.3			15.1		
Sometimes obeys		1			52.9			53.5			51.0		
Disobeys		2			28.2			26.3			33.9		
Consistent appropriate consequences	X		-1	2		0.30	1.45		0.25	1.44		0.44	1.45
for bad behavior													
Consistent: appropriate		-1			54.6			56.3			49.6		
Consistent: severe or insufficient		1			6.1			5.7			7.2		
Inconsistent		2			39.3			38.0			43.2		
Consistent appropriate reward for	X		-1	2		0.45	1.27		0.42	1.27		0.55	1.26
good behavior													
Consistent: appropriate		-1			41.2			42.4			37.5		
Consistent: insufficient or		1			31.6			31.3			32.5		
indulgent													
Inconsistent		2			27.2			26.3			30.0		
Parental characterization of youth's	X		-1	3		-0.50	0.92		-0.50	0.92		-0.50	0.93
anti-social behavior													
Disapproves		-1			76.4			76.3			76.7		
Minimizes		1			20.8			21.1			20.0		
Accepts		2			2.6			2.5			3.1		
Proud of		3			0.2			0.2			0.3		
ALCOHOL & DRUG HISTORY													
History of alcohol use (overall)			-2	2		0.17	1.39		0.11	1.41		0.34	1.33
No history		-2			22.7			24.4			17.5		
History		0			37.7			37.9			37.3		
Disrupted education, caused		1			17.3			16.1			21.1		
family conflict interfered with													
prosocial friends, or caused health													
problems													
Contributed to criminal behavior		2			22.3			21.7			24.1		
No past alcohol use			0	1		0.23	0.42		0.24	0.43		0.18	0.38
Use		0			77.3			75.5			82.5		
No use		0			22.7			24.5			17.5		
Past alcohol use		U			22.1			24.3					
		0	0	1	22.1	0.77	0.42	24.3	0.76	0.43		0.82	0.38
No		0	0	1	22.7	0.77	0.42	24.4	0.76	0.43	17.6	0.82	0.38
No Yes		-	0	1		0.77	0.42		0.76	0.43	17.6 82.4	0.82	0.38
		0	0	1	22.7	0.77	0.42	24.4	0.76	0.43		0.82	0.38
Yes		0	-	1	22.7			24.4					
Yes Disrupted education No Yes		0 1	-	1	22.7 77.3			24.4 75.6			82.4		
Yes Disrupted education No		0 1	-	1	22.7 77.3			24.4 75.6 79.3			82.4 74.4		
Yes Disrupted education No Yes		0 1	0	1	22.7 77.3	0.22	0.41	24.4 75.6 79.3	0.21	0.40	82.4 74.4	0.26	0.44
Yes Disrupted education No Yes Caused family conflict		0 1 0 1	0	1	22.7 77.3 78.1 21.9	0.22	0.41	24.4 75.6 79.3 20.7	0.21	0.40	74.4 25.6	0.26	0.44
Yes Disrupted education No Yes Caused family conflict No Yes		0 1 0 1	0	1	22.7 77.3 78.1 21.9	0.22	0.41	24.4 75.6 79.3 20.7	0.21	0.40	82.4 74.4 25.6 67.7	0.26	0.44
Yes Disrupted education No Yes Caused family conflict No		0 1 0 1	0	1	22.7 77.3 78.1 21.9	0.22	0.41	24.4 75.6 79.3 20.7	0.21	0.40	82.4 74.4 25.6 67.7	0.26	0.44
Yes Disrupted education No Yes Caused family conflict No Yes Interfered with pro-social		0 1 0 1	0	1	22.7 77.3 78.1 21.9	0.22	0.41	24.4 75.6 79.3 20.7	0.21	0.40	82.4 74.4 25.6 67.7	0.26	0.44

Caused poor health		0	1		0.04	0.20		0.04	0.19		0.06	0.24
No	0			95.6			96.2			93.8		
Yes	1			4.4			3.8			6.2		
Contributed to criminal		0	1		0.22	0.42		0.22	0.41		0.24	0.43
behavior												
No	0			77.7			78.3			75.9		
Yes	1			22.3			21.7			24.1		
Alcohol tolerance		0	1		0.03	0.18		0.03	0.17		0.05	0.21
No	0			96.5			96.9			95.4		
Yes	1			3.5			3.1			4.6		
Alcohol withdrawal		0	1		0.01	0.11		0.01	0.10		0.02	0.13
No	0			98.7			98.9			98.2		
Yes	1			1.3			1.1			1.8		
History of drug use (overall)		-2	4		1.51	2.07		1.49	2.10		1.57	1.98
No history	-2			19.3			20.1			16.9		
History	1			29.4			29.2			29.9		<u> </u>
Disrupted education, caused	2			22.7			21.7			25.6		
family conflict interfered with												
prosocial friends, or caused health												
problems												
Contributed to criminal behavior	4			28.6			29.0			27.5		
No past drug use		0	1		0.19	0.40		0.20	0.40		0.17	0.38
Use	0			80.6			79.8			83.0		
No use	1			19.4			20.2			17.0		
Past drug use		0	1		0.81	0.39		0.80	0.40		0.83	0.38
No	0			19.3			20.1			17.0		
Yes	1			80.7			79.9			83.0		
Disrupted education		0	1		0.36	0.48		0.36	0.48		0.37	0.48
No	0			63.7			64.0			62.7		
Yes	1			36.3			36.0			37.3		
Caused family conflict		0	1		0.37	0.48		0.36	0.48		0.40	0.49
No	0			62.8			63.8			59.8		
Yes	1			37.2			36.2			40.2		
Interfered with pro-social		0	1		0.34	0.47		0.33	0.47		0.37	0.48
friends												
No	0			65.9			66.9			63.0		
Yes	1			34.1			33.1			37.0		
Caused health problems		0	1		0.06	0.23		0.05	0.21		0.08	0.27
No	0			94.5			95.3			92.0		
Yes	1			5.5			4.7			8.0		
Contributed to criminal		0	1		0.29	0.45		0.29	0.45		0.28	0.45
behavior												
No	0			71.4			71.0			72.5		
Yes	1			28.6			29.0			27.5		
Drug tolerance		0	1		0.07	0.26		0.07	0.25		0.09	0.28
No	0			92.7			93.1			91.4		
Yes	1			7.3			6.9			8.6		
Drug withdrawal		0	1		0.03	0.17		0.03	0.16		0.04	0.20
No	0			97.0			97.3			95.9		

Yes		1			3.0			2.7			4.1		
History of referrals for drug/alcohol			0	3		0.98	1.24		0.96	1.23		1.03	1.26
assessment													
No problem or never referred		0			57.2			57.7			55.7		
Referred but not assessed		1			8.3			8.3			8.3		
Diagnosed as abuse		2			13.8			13.9			13.5		
Diagnosed as dependent		3			20.7			20.1			22.5		
History of attending alcohol/drug			-3	0		-0.45	0.79		-0.45	0.79		-0.46	0.80
education classes													
Voluntarily attended		-3			2.9			2.8			3.0		
Attended at request		-2			10.6			10.6			10.6		
Attended at court direction		-1			15.3			15.2			15.7		
Never attended		0			71.2			71.4			70.7		
History of participating in			-1	0		-0.26	0.44		-0.26	0.44		-0.27	0.45
alcohol/drug treatment program													
Participated		-1			26.3			25.9			27.3		
Has not participated		0			73.7			74.1			72.7		
Youth using alcohol/drugs	X		-3	1		-0.11	1.79		-0.11	1.79		-0.09	1.78
No		-3			27.7			27.8			27.3		
Yes		1			72.3			72.2			72.7		
CURRENT ALCOHOL &													
DRUGS													
Alcohol use (overall)	X		0	3		1.21	1.19		1.19	1.20		1.28	1.17
Not using		0			39.4			40.7			35.6		
Not disrupting functioning		1			23.1			22.7			24.0		
Disrupting education, causes		2			14.5			13.5			17.4		
family conflict interferes with													
keeping prosocial friends, or													
causes health problems													
Contributes to criminal behavior		3			23.0			23.1			22.9		
No current alcohol use			0	1		0.30	0.44		0.31	0.46		0.27	0.45
Yes		0			70.3			69.5			72.8		
No		1			29.7			30.5			27.2		
Not disrupting functioning			0	1		0.44	0.50		0.43	0.49		0.47	0.50
No		0			56.2			57.2			53.2		
Yes		1			43.8			42.8			46.8		
Disrupts education			0	1		0.14	0.35		0.14	0.34		0.16	0.37
No		0	-		85.7			86.3			84.0		
Yes		1			14.3			13.7			16.0		
Causes family conflict		-	0	1	1 113	0.19	0.39	1317	0.18	0.39	10.0	0.22	0.41
No.		0			80.9			81.8	0.110	0.07	78.2		
Yes		1			19.1			18.2			21.8		
Interferes with prosocial		1	0	1		0.17	0.37	10.2	0.16	0.37		0.19	0.39
friends			7			V.11	V.J.		0.10	0.57		U.17	0.07
No		0			83.1			83.8			80.8		
Yes		1			16.9			16.2			19.2		
Causes health problems		1	0	1	10.7	0.03	0.18	10.2	0.03	0.17	17.4	0.04	0.20
No		0	0	1	96.8	0.03	0.10	97.1	0.03	0.17	95.7	V.UT	0.40
Yes		1			3.2			2.9			4.3		
1 65		1			3.4			۷.ソ			4.3		

Contributes to criminal			0	1		0.17	0.37		0.17	0.37		0.17	0.37
behavior													
No		0			83.3			83.3			83.3		
Yes		1			16.7			16.7			16.7		
Alcohol tolerance	X		0	1		0.02	0.15		0.02	0.15		0.03	0.17
No		0			97.6			97.8			96.9		
Yes		1			2.4			2.2			3.1		
Alcohol withdrawal	X		0	1		0.01	0.09		0.01	0.09		0.01	0.11
No		0			99.1			99.2			98.7		
Yes		1			0.9			0.8			1.3		
Current drug use (overall)	X		0	4		2.29	1.39		2.32	1.39		2.19	1.40
Not using		0			18.1			17.5			20.1		
Not disrupting functioning OR use disrupting education, causes family conflict interferes with keeping prosocial friends, or causes health problems		2			49.3			49.0			50.1		
Contributes to criminal behavior		4			32.6			33.5			29.8		
No current drug use		'	0	1		0.15	0.36	23.0	0.14	0.35	=2.10	0.17	0.37
Yes		0		•	85.2	0.12	0.50	85.7	0.1.1	0.00	83.5	0.17	0.57
No		1			14.8			14.3			16.5		
Not disrupting functioning		-	0	1	11.0	0.59	0.49	11.5	0.60	0.49	10.5	0.58	0.49
No		0		-	40.8	0.57	0.12	40.4	0.00	0.12	41.9	0.50	0.17
Yes		1			59.2			59.6			58.1		
Disrupts education		1	0	1	37.2	0.28	0.45	37.0	0.28	0.45	30.1	0.28	0.45
No		0	U	1	72.0	0.26	0.43	71.8	0.20	0.43	72.4	0.26	0.43
Yes		1			28.0			28.2			27.6		
Drug use causes family		1	0	1	20.0	0.30	0.46	20.2	0.30	0.46	27.0	0.31	0.46
conflict			0	1		0.30	0.40		0.30	0.40		0.31	0.40
No		0			69.7			69.8			69.1		
Yes		1			30.3			30.2			30.9		
Interferes with prosocial friends			0	1		0.28	0.45		0.27	0.45		0.29	0.45
No		0			72.4			72.8			71.4		
Yes		1			27.6			27.2			28.6		
Causes health problems			0	1		0.05	0.21		0.04	0.20		0.07	0.25
No		0			95.2			95.9			93.3		
Yes		1			4.8			4.1			6.7		
Contributes to criminal		<del>-</del>	0	1		0.24	0.42		0.24	0.43		0.22	0.41
behavior			· ·	-		··	~·· <del>-</del>		··			~	****
No		0			76.5			75.8			78.3		
Yes		1			23.5			24.2			21.7		
Drug tolerance	X	-	0	1		0.06	0.25		0.06	0.24		0.07	0.26
No No		0		•	93.6			93.9		J.= 1	92.6	0.01	3.20
Yes		1			6.4			6.1			7.4		
Drug withdrawal	X	•	0	1	0.1	0.03	0.16	0.1	0.03	0.16	7.1	0.04	0.19
No	41	0		1	97.2	0.03	0.10	97.5	0.03	0.10	96.4	0.07	0.17
Yes		1			2.8			2.5			3.6		
Type of drugs currently used	X	1			4.0			۷.5			5.0		

Marijuana		0	1		0.58	0.49		0.58	0.49		0.55	0.50
No	0			42.4			41.6			44.6		
Yes	1			57.6			58.4			55.4		
Amphetamines		0	1		0.09	0.29		0.08	0.27		0.15	0.36
No	0			90.5			92.4			85.1		
Yes	1			9.5			7.6			14.9		
Cocaine		0	1		0.05	0.22		0.05	0.21		0.07	0.25
No	0			94.9			95.4			93.3		
Yes	1			5.1			4.6			6.7		
Heroin		0	1		0.02	0.13		0.01	0.12		0.03	0.17
No	0			98.2			98.6			96.9		
Yes	1			1.8			1.4			3.1		
Other drug		0	1		0.09	0.29		0.08	0.28		0.11	0.31
No	0			91.0			91.5			89.3		
Yes	1			9.0			8.5			10.7		
Alcohol/drug treatment program	X	-2	1		0.34	0.84		0.35	0.83		0.31	0.84
participation												
Successfully completed	-2			2.2			2.1			2.4		
Currently attending	-1			17.1			16.9			17.9		
Treatment not warranted	0			25.4			25.1			26.5		
Needs treatment, not attending	1			55.3			55.9			53.3		
MENTAL HEALTH HISTORY												
History of suicidal ideation												
No thoughts of suicide		0	1		0.74	0.44		0.79	0.41		0.59	0.49
Yes	0			26.4			21.4			41.1		
No	1			73.6			78.6			58.9		
Serious thoughts of suicide		0	1		0.17	0.38		0.15	0.35		0.26	0.44
No	0			82.6			85.4			74.2		
Yes	1			17.4			14.6			25.8		
Has made a plan		0	1		0.03	0.17		0.02	0.15		0.05	0.21
No	0			97.0			97.7			95.2		
Yes	1			3.0			2.3			4.8		
Has attempted		0	1		0.07	0.25		0.05	0.21		0.13	0.34
No	0			93.1			95.3			86.6		
Yes	1			6.9			4.7			13.4		
Hopeless		0	1		0.04	0.19		0.03	0.17		0.06	0.24
No	0			96.2			96.9			94.0		
Yes	1			3.8			3.1			6.0		
Self-mutilating		0	1		0.04	0.19		0.02	0.15		0.09	0.28
No	0			96.2			97.8			91.3		
Yes	1			3.8			2.2			8.7		
History of physical abuse (overall)		-1	1		-0.36	0.93		-0.43	0.91		-0.17	0.98
No	-1			68.1			71.3			58.7		
Yes	1			31.9			28.7			41.3		
Not a victim of physical abuse		0	1		0.69	0.46		0.72	0.45		0.59	0.49
Yes	0			31.3			28.2			40.6		
No	1			68.7			71.8			59.4		
Physical abuse: family		0	1		0.22	0.42		0.20	0.40		0.28	0.45
member												

No	0			77.8			79.6			72.2		
Yes	1			22.2			20.4			27.8		
Physical abuse: in the home		0	1		0.09	0.29		0.08	0.27		0.12	0.32
No	0			91.0			92.0			88.1		
Yes	1			9.0			8.0			11.9		
Physical abuse: someone		0	1		0.08	0.28		0.07	0.25		0.13	0.34
outside the family												
No	0			91.7			93.3			86.8		
Yes	1			8.3			6.7			13.2		
Physical abuse: foster home		0	1		0.01	0.07		0.00	0.07		0.01	0.08
No	0			99.5			99.5			99.3		
Yes	1			0.5			0.5			0.7		
Physical abuse: with a weapon		0	1		0.01	0.10		0.01	0.10		0.01	0.10
No	0			99.0			98.9			99.0		
Yes	1			1.0			1.1			1.0		
Has not witnessed violence		0	1		0.10	0.31		0.11	0.31		0.09	0.29
Yes	0			89.5			89.0			91.0		
No	1			10.5			11.0			9.0		
Witnessed violence in the home		0	1		0.19	0.39		0.17	0.38		0.23	0.42
No	0			81.2			82.7			76.6		
Yes	1			18.8			17.3			23.4		
Witnessed violence in foster home		0	1		0.01	0.10		0.01	0.10		0.02	0.12
No	0	-		98.9			99.1			98.5		
Yes	1			1.1			0.9			1.5		
Witnessed violence in the community		0	1		0.20	0.40		0.19	0.39		0.22	0.41
No	0			80.2			80.8		0.07	78.5		
Yes	1			19.8			19.2			21.5		
Witnessed murder	•	0	1	17.0	0.01	0.08	17.12	0.01	0.08	2110	0.01	0.08
No	0		•	99.3	0.01	0.00	99.3	0.01	0.00	99.4	0.01	
Yes	1			0.7			0.7			0.6		
History of sexual abuse (overall)	1	-1	1	0.7	-0.71	0.71	0.7	-0.84	0.54	0.0	-0.31	0.95
No	-1	1	-	85.4	0.71	0.71	92.0	0.01	0.51	65.6	0.51	0.73
Yes	1			14.6			8.0			34.4		
Not a victim of sexual abuse	1	0	1	14.0	0.86	0.35	0.0	0.92	0.27	57.7	0.66	0.47
Yes	0		1	14.4	0.00	0.55	7.9	0.52	0.27	33.9	0.00	0.47
No	1			85.6			92.1			66.1		
Sexual abuse: family member	1	0	1	05.0	0.07	0.25	72.1	0.04	0.20	00.1	0.14	0.35
No	0		1	93.4	0.07	0.23	95.9	0.01	0.20	86.1	0.14	0.55
Yes	1			6.6			4.1			13.9		
Sexual abuse: someone	1	0	1	0.0	0.09	0.29	7.1	0.04	0.20	13.7	0.24	0.43
outside the family		U	1		0.07	0.27		0.04	0.20		0.24	0.43
No	0			90.7			95.7			76.1		
Yes	1			9.3			4.3			23.9		
History of being a victim of neglect	1	-1	1	7.3	-0.48	0.88	т. Ј	-0.52	0.85	40.7	-0.36	0.93
No	-1	-1	1	74.1	-0.40	0.00	76.2	-0.34	0.03	67.8	-0.50	0.73
Yes	-1 1			25.9			23.8			32.2		
History of ADD/ADHD	1	-1	2	43.9	-0.32	1.06	43.0	-0.25	1.09	34.4	-0.56	0.92
No	1	-1		69.9	-0.32	1.00	66.1	-0.23	1.09	80.4	-0.50	0.92
	-1						66.4					
Medication or treatment	1			22.7			25.4			14.4		

prescribed													
Medication and treatment prescribed		2			7.5			8.2			5.2		
History of mental health problems			-1	2		-0.25	1.16		-0.32	1.12		-0.06	1.23
No		-1			69.4			72.0			61.6	0.00	
Medication or treatment		1			17.3			15.9			21.5		
Medication and treatment prescribed		2			13.3			12.1			16.9		
Health insurance	X		-1	1		-0.88	0.47		-0.87	0.49		-0.90	0.43
Yes		-1			94.1			93.7			95.1		
No		1			5.9			6.3			4.9		
Current mental health problem status	X		-1	1		-0.40	0.92		-0.45	0.90		-0.27	0.96
No		-1			70.1			72.3			63.5		
Yes		1			29.9			27.7			36.5		
Anger			0	3		1.49	0.96		1.45	0.96		1.60	0.94
No history		0			12.8			14.0			9.5		
Occasional feelings		1			45.6			46.4			43.4		
Consistent feelings		2			21.2			20.0			24.6		
Aggressive reactions		3			20.4			19.6			22.5		
Depression			0	3		1.02	0.83		0.93	0.81		1.27	0.84
No history		0			28.7			32.6			18.0		
Occasional feelings		1			44.9			45.1			44.4		
Consistent feelings		2			21.7			18.6			30.4		
Impairment in daily tasks		3			4.6			3.7			7.2		
Somatic complaints			0	3		0.32	0.64		0.28	0.61		0.43	0.71
No history		0			75.4			78.4			66.9		
One or two		1			19.4			17.0			26.2		
Three or four		2			3.0			2.6			4.1		
Five or more		3			2.2			2.0			2.8		
Delusions/hallucinations			0	1		0.05	0.21		0.04	0.20		0.05	0.22
No		0	-		95.5			95.7			95.0		
Yes		1			4.5			4.3			5.0		
Trauma			0	1		0.39	0.49		0.34	0.48		0.52	0.50
No		0			60.9			65.6			48.0		
Yes		1			39.1			34.4			52.0		
CURRENT MENTAL HEALTH													
Current suicide ideation	X												
No recent thoughts			0	1		0.23	0.42		0.19	0.40		0.31	0.46
No		-1			77.2			80.6			69.1		
Yes		0			22.8			19.4			30.9		
Recent plan			0	1		0.01	0.09		0.01	0.08		0.01	0.12
No		0			99.2			99.4			98.6		
Yes		1			0.8			0.6			1.4		
Recent attempt			0	1		0.01	0.11		0.01	0.09		0.03	0.16
No		0			98.7			99.1			97.4		
Yes		1			1.3			0.9			2.6		
Hopeless			0	1		0.01	0.10		0.01	0.09		0.02	0.12
No		0			99.1			99.3			98.5		

Yes		1			0.9			0.7			1.5		
Self-mutilation			0	1		0.01	0.11		0.01	0.08		0.03	0.16
No		0			98.9			99.4			97.4		
Yes		1			1.1			0.6			2.6		
Currently diagnosed with ADD/ADHD	X		-1	1		-0.09	0.61		-0.11	0.66		-0.04	0.48
Compliant with medication		-1			23.7			28.1			13.7		
No problem or no medication		0			61.6			54.9			76.7		
Non-compliant with medication		1			14.8			17.0			9.6		
Mental health treatment currently prescribed, excluding ADD/ADHD	X		-1	1		-0.21	0.75		-0.22	0.73		-0.20	0.80
treatment													
Attending treatment		-1			41.4			40.1			44.1		
No treatment need		0			38.6			41.5			32.0		
Non-compliant with treatment		1			20.0			18.4			23.8		
Mental health medication currently prescribed, excluding ADD/ADHD medication	X		-1	1		-0.21	0.67		-0.23	0.66		-0.18	0.70
Compliant with medication		-1			35.4			35.6			35.0		
No medication need		0			50.1			51.2			47.6		
Non-compliant with medication		1			14.4			13.1			17.4		
Mental health problems currently	X	1	0	1	14.4	0.32	0.47	13.1	0.33	0.47	1 / .4	0.31	0.46
interfere with working with the youth	Λ		0	1		0.32	0.47		0.55	0.47		0.51	0.40
No problem or mental health does not interfere		0			67.9			67.2			69.5		
Yes		1			32.1			32.8			30.5		
ATTITUDES/BEHAVIORS													
Primary emotion when committing last crime(s) within last 6 months	X		-1	1		0.64	0.77		0.65	0.76		0.61	0.79
Nervous, afraid, worried, uncertain		-1			18.0			17.6			19.3		
Hyper, excited, stimulated, confident, or unconcerned		1			82.0			82.4			80.7		
Primary purpose for committing crime(s) within last 6 months	X												
Anger/revenge			0	1		0.26	0.44		0.23	0.42		0.33	0.47
No		0			84.2			76.6			66.9		
Yes		1			15.8			23.4			33.1		
Power			0	1		0.01	0.10		0.00	0.06		0.01	0.11
No		0			98.9			99.0			98.7		
Yes		1			1.1			1.0			1.3		
Impulse			0	1		0.19	0.39		0.19	0.39		0.18	0.39
			0										
		0	0	1	81.0			80.8			81.6		
No		0	0	1	81.0 19.0			80.8 19.2			81.6 18.4		
No Yes				1	81.0 19.0	0.03	0.17	80.8 19.2			81.6 18.4	0.00	0.06
No Yes Sexual desire		1	0	-	19.0	0.03	0.17	19.2	0.04	0.19	18.4	0.00	0.06
No Yes Sexual desire No		0		-	19.0 97.0	0.03	0.17	19.2 96.1			18.4 99.6	0.00	0.06
No Yes Sexual desire		1		-	19.0	0.03	0.17	19.2			18.4	0.00	0.06

Yes		1			18.8			19.3			17.4		
Excitement, amusement			0	1		0.15	0.36		0.16	0.37		0.13	0.34
No		0			84.7			84.0			86.7		
Yes		1			15.3			16.0			13.3		
Status, acceptance, attention			0	1		0.16	0.37		0.16	0.37		0.15	0.35
No		0			84.2			83.8			85.3		
Yes		1			15.8			16.2			14.7		
Optimism	X		-2	2		-0.30	1.06		-0.28	1.06		-0.34	1.07
High aspirations		-2			5.7			5.1			7.4		
Normal aspirations		-1			57.1			57.2			56.8		
Low aspirations		1			35.7			36.2			34.4		
Believes nothing matters		2			1.5			1.5			1.4		
Impulsive; acts before thinking	X		-2	2		0.29	1.27		0.30	1.27		0.28	1.27
Uses self-control		-2			4.8			4.6			5.3		
Some self-control		-1			37.4			37.4			37.2		
Impulsive		1			39.5			39.5			39.6		
Highly impulsive		2			18.4			18.5			17.9		
Belief in control over anti-social	X		-2	2		0.18	1.44		0.18	1.44		0.19	1.45
behavior													
Believes		-2			29.7			29.7			29.8		
Somewhat believes		1			62.6			62.8			62.2		
Does not believe		2			7.6			7.5			8.0		
Empathy, remorse, sympathy, or	X		-2	2		-0.15	1.59		-0.14	1.59		-0.16	1.59
feelings for victim(s) of criminal													
behavior													
Empathy		-2			17.5			17.3			18.0		
Some empathy		-1			48.2			48.3			47.9		
No empathy		2			34.3			34.3			34.1		
Respect for property of others	X		-2	3		0.80	1.77		0.85	1.76		0.65	1.80
Respects		-2			25.9			24.8			29.1		
Respects personal, not public		1			30.1			30.0			30.4		
Conditional respect for personal		2			30.4			30.9			28.9		
No respect		3			13.6			14.3			11.6		
Respect for authority figures	X		-2	3		0.01	1.81		0.02	1.82		-0.02	1.80
Respects		-2			42.7			42.6			43.1		
Does not respect		1			35.3			35.1			36.1		
Resents		2			15.1			15.4			14.3		
Defies or is hostile		3			6.8			6.9			6.5		
Attitude toward pro-social	X		-2	3		0.73	1.41		0.74	1.41		0.69	1.41
rules/conventions in society													
Abides		-2			18.4			18.3			18.9		
Believes rules sometimes apply		1			59.5			59.2			60.5		
Does no believe rules apply		2			16.1			16.5			15.0		
Resents rules		3			5.9			6.0			5.6		
Accepts responsibility for anti-social	X		-2	3		0.34	1.60		0.33	1.61		0.36	1.60
behavior													
		-2			29.9			30.1			29.4		
Accepts responsibility Minimizes antisocial behavior		-2 1			29.9 50.3			30.1 50.3			29.4 50.5		

Proud of antisocial behavior		3			4.0			4.0			3.9		
Youth's belief in successfully meeting	X		-1	2		0.06	1.07		0.06	1.07		0.04	1.06
conditions of court supervision													
Believes		-1			49.5			49.3			49.9		
Unsure		1			46.0			46.0			45.8		
Does not believe		2			4.6			4.7			4.3		
AGGRESSION													
Tolerance for frustration	X		-2	2		0.78	1.32		0.71	1.35		0.98	1.21
Rarely upset		-2			16.8			18.4			12.3		
Sometimes upset		1			54.7			55.3			52.9		
Often upset		2			28.5			26.4			34.9		
Hostile interpretation of actions &	X		-2	2		-0.19	1.59		-0.22	1.59		-0.12	1.58
intentions of others													
Positive view		-2			42.9			43.6			40.6		
Negative view		1			47.8			47.3			49.5		
Hostile view		2			9.3			9.1			10.0		
Belief in yelling & verbal aggression to	X		-2	2		0.68	1.36		0.62	1.39		0.87	1.28
resolve a disagreement or conflict													
Rarely appropriate		-2			19.0			20.4			14.8		
Sometimes appropriate		1			55.9			56.5			54.0		
Often appropriate		2			25.1			23.1			31.1		
Belief in fighting & physical aggression	X		-2	2		0.67	1.81		0.66	1.81		0.69	1.82
to resolve a disagreement or conflict													
Never appropriate		-2			14.3			14.2			14.5		
Rarely appropriate		-1			29.4			29.7			28.7		
Sometimes appropriate		2			44.4			44.4			44.3		
Often appropriate		3			11.9			11.7			12.5		
Reports/evidence of violence not included in criminal history	X												
No reports			0	1		0.45	0.50		0.46	0.50		0.43	0.49
Yes		0		1	54.7	0.43	0.50	53.8	0.70	0.50	57.1	0.43	0.77
No		1			45.3			46.2			42.9		
Violent destruction of property		1	0	1	75.5	0.15	0.36	70.2	0.15	0.36	72.7	0.15	0.36
No		0		1	84.7	0.13	0.50	84.6	0.13	0.50	85.1	0.13	0.30
Yes		1			15.3			15.4			14.9		
Violent outbursts, displays of		1	0	1	13.3	0.50	0.50	13.7	0.49	0.50	17.7	0.54	0.50
temper, uncontrolled anger			U	1		0.50	0.50		0.47	0.50		0.54	0.50
indicating potential for harm													
No		0			49.6			50.9			45.7		
Yes		1			50.4			49.1			54.3		
Deliberately inflicted physical		-	0	1	20	0.17	0.37		0.16	0.37	- 110	0.18	0.39
pain			~	•		~***				0.07			,
No		0			83.5			84.0			81.9		
Yes		1			16.5			16.0			18.1		
Used/threatened with a weapon			0	1		0.08	0.26		0.08	0.27	· · · · · · · · · · · · · · · · · · ·	0.05	0.23
No		0			92.5			91.8			94.6		
Yes		1			7.5			8.2			5.4		
Fire starting reports			0	1		0.04	0.20		0.05	0.21		0.02	0.15
No		0	~		95.9	****		95.3	****		97.8	~-~-	
					, , , ,			,,,,			77.0		

Yes		1			4.1			4.7			2.2		
Animal cruelty reports			0	1		0.01	0.12		0.02	0.12		0.01	0.10
No		0			98.6			98.4			99.1		
Yes		1			1.4			1.6			0.9		
Reports/evidence of sexual aggression not included in criminal history	X												
No reports of sexual aggression outside of criminal history			0	1		0.97	0.18		0.96	0.19		0.98	0.13
Yes		0			3.3			3.9			1.6		
No		1			96.7			96.1			98.4		
Reports of aggressive sex			0	1		0.01	0.10		0.01	0.11		0.01	0.07
No No		0			99.0			98.9			99.5		
Yes		1			1.0			1.1			0.5		
Reports of sex for power			0	1	-	0.00	0.06		0.00	0.06		0.00	0.06
No		0	-		99.6			99.6			99.6		
Yes		1			0.4			0.4			0.4		
Reports of young sex partners			0	1		0.01	0.10		0.01	0.11		0.00	0.05
No		0			99.0			98.7			99.7		
Yes		1			1.0			1.3			0.3		
Reports of child sex			0	1		0.01	0.10		0.01	0.11		0.00	0.05
No		0			99.0			98.8			99.8		
Yes		1			1.0			1.2			0.2		
Reports of voyeurism			0	1	-	0.00	0.06		0.00	0.06		0.00	0.04
No		0			99.7			99.6			99.9		
Yes		1			0.3			0.4			0.1		
Reports of exposure			0	1		0.01	0.09		0.01	0.10		0.01	0.08
No		0			99.1			99.1			99.4		
Yes		1			0.9			0.9			0.6		
SKILLS													
Consequential thinking	X		-3	1		-0.99	0.89		-0.98	0.89		-1.03	0.89
Acts to obtain desired consequences		-3			3.3			3.2			3.8		
Identifies consequences of actions		-2			17.0			16.7			18.1		
Understands there are		-1			67.5			67.8			66.6		
consequences to actions													
Does not understand		1			12.1			12.3			11.5		
Goal-setting	X		-2	2		0.09	1.44		0.13	1.45		-0.01	1.43
Realistic goals		-2			8.5			8.0			10.1		
Somewhat realistic goals		-1			46.6			46.2			47.8		
Unrealistic goals		1			17.0			16.9			17.2		
No goals		2			28.0			29.0			24.8		
Problem-solving	X		-3	1		-0.60	1.13		-0.58	1.13		-0.64	1.13
Applies appropriate solutions		-3			2.5			2.4			2.8		
Thinks of solutions		-2			14.5			14.0			15.8		
Identifies problem behaviors		-1			53.1			53.2			52.8		
Cannot identify		1			29.9			30.4			28.5		
Situational perception	X		-3	1		-0.59	1.22		-0.57	1.22		-0.65	1.22
Selects best time and place		-3			4.2			4.0			4.6		
Chooses skill but not time/place		-2			16.7			16.3			18.0		

Analyzes but unable to choose skill		-1			46.2			46.1			46.5		
Cannot analyze					32.9			33.6			31.0		
Dealing with others	X		-3	1		-0.79	1.08		-0.77	1.08		-0.86	1.08
Often uses advanced skills		-3			2.6			2.4			3.2		
Sometimes uses advanced skills		-2			19.2			18.5			2.4		
Has basic skills, not advanced		-1			55.5			55.9			54.5		
Lacks basic skills		1			22.6			23.2			20.9		
Dealing with difficult situations	X		-2	2		0.65	1.32		0.66	1.31		0.62	1.33
Often uses skills		-2			2.3			2.3			2.5		
Sometimes uses skills		-1			32.1			31.7			33.3		
Rarely uses skills		1			28.9			29.3			27.7		
Lacks skills		2			36.6			36.7			36.4		
Dealing with feelings/emotions	X		-2	2		0.73	1.29		0.74	1.29		0.68	1.31
Often uses skills		-2			2.1			2.1			2.4		
Sometimes uses skills		-1			29.5			29.0			31.0		
Rarely uses skills		1			30.5			30.9			29.2		
Lacks skills		2			37.9			38.1			37.4		
Monitoring of internal triggers	X		-2	2		0.64	1.53		0.65	1.53		0.60	1.54
Actively monitors		-2			3.1			3.0			3.4		
Identifies		-1			41.3			40.9			42.3		
Cannot identify		2			55.6			56.1			54.4		
Monitoring of external triggers	X		-2	2		0.14	1.51		0.15	1.51		0.11	1.51
Actively monitors		-2			4.1			4.0			4.3		
Identifies		-1			56.6			56.5			57.2		
Cannot identify		2			39.3			39.5			38.5		
Control of impulsive behaviors	X		-3	2		0.78	1.66		0.78	1.66		0.76	1.66
No problem		-3			4.7			4.7			4.5		
Uses techniques		-2			3.0			3.0			3.2		
Knows techniques		-1			29.0			28.9			29.5		
Lacks techniques		2			63.3			63.4			62.9		
Control of aggression	X		-3	2		0.05	1.78		0.03	1.79		0.11	1.78
No problem		-3			10.5			10.7			9.8		
Often uses alternatives		-2			9.5			9.7			9.0		
Sometimes uses alternatives		-1			30.0			30.1			29.8		
Rarely uses alternatives		1			14.4			14.5			14.3		
Lacks alternatives		2			35.6			35.1			37.2		

### Appendix III. Principal Component Analysis (PCA) Detailed findings

Principal Component Analysis (PCA) was utilized to identify item groupings within each domain of the PACT for the prediction models. Table 1 provides the model fit information for the PCA models for each domain. Tables 2 through 12 illustrate the results of the PCA for each domain by providing the components extracted with the items that substantially loaded (loadings values of at least 0.600) onto them.

Table 1 - Components Extracted, Items Loaded, and Percent Variance Explained by Domain

Domain	Number of Components Extracted	Number of Items Per Component	Percent Variance Explained
Criminal History	4		52%
Component 1		2	18
Component 2		2	15
Component 3		2	10
Component 4		1	8
School	2		65%
Component 1		2	51
Component 2		10	14
Use of Free Time	1		51%
Component 1		4	51
Employment	3		69%
Component 1		5	39
Component 2		2	19
Component 3		1	12
Relationships	2		56%
Component 1		4	36
Component 2		3	20
Family	20		63%
Component 1		5	10
Component 2		3	8
Component 3		3	5
Component 4		3	4
Component 5		2	4

Component 6		3	3
_			
Component 7		3	3
Component 8		2	3
Component 9		2	3
Component 10		1	2
Component 11		1	2
Component 12		1	2
Component 13		2	2
Component 14		2	2
Component 15		1	2
Component 16		2	2
Component 17		1	2
Component 18		2	2
Component 19		1	2
Component 20		1	2
Alcohol and Drugs	8		63%
Component 1		6	26
Component 2		4	9
Component 3		4	6
Component 4		4	6
Component 5		4	5
Component 6		3	4
Component 7		4	4
Component 8		2	3
Mental Health	12		61%
Component 1		5	16
Component 2		6	8
Component 3		2	6
Component 4		2	5
Component 5		2	4
	1	1	l .

Component 6		2	4
Component 7		1	3
Component 8		2	3
Component 9		2	3
Component 10		2	3
Component 11		1	3
Component 12		1	
Attitudes and Behaviors	11		78%
Component 1		6	21
Component 2		2	9
Component 3		2	7
Component 4		2	6
Component 5		1	6
Component 6		1	5
Component 7		1	5
Component 8		2	5
Component 9		2	5
Component 10		1	5
Component 11		1	4
Aggression	5		53%
Component 1		4	20
Component 2		3	11
Component 3		2	9
Component 4		2	7
Component 5		2	6
Skills	1		54%
Component 1		8	54

Table 2 – Criminal History Domain

Component 1	Component 2	Component 3	Component 4
Felony sex referrals	Misdemeanor referrals	Confined detention orders	Weapon referrals

Against person felony	Against person	Failure-to-appear in court	
referrals	misdemeanor referrals	warrants	

## Table 3 – School Domain

Component 1	Component 2
History of expulsion	Current school enrollment
Age of first expulsion	Currently believes school is worthwhile
	Currently believes school is encouraging
	Currently involved in school activities
	Youth's conduct in recent term
	Number of current expulsions
	Youth's attendance in recent term
	Youth's academic performance in recent term
	Assessor's belief youth will graduate

#### Table 4 – Use of Free Time Domain

Table 5 – Employment Domain

Component 1	Component 2	Component 3
No history of employment problems	History of employment	History of problems at work
History of at least one positive adult relationships at work	Interest in employment	
Current employment status		
Understanding what it takes to be successfully employed		
Current positive adult relationships at work		

#### Table 6 – Relationships Domain

tuble of Relationiph Bonnain	
Component 1	Component 2
History of anti-social friends	History of positive adult non-family relationships not connected to school or employment
Current friends youth spends time with	Current positive adult non-family relationships not connected to school or employment
Youth admires anti-social friends	Current pro-social ties
Youth resists anti-social friends	

Table 7 – Family Domain

able / = Family Domain	C 1 12	C 1 2	
Component 1	Component 2	Component 3	Component 4
Support network for family	History of family members in jail	Mom currently in jail	Youth feels close to no family members
Family provides opportunities for youth to participate in activities and decisions affecting the youth	Currently have family members in jail	Parent problem with alcohol	Youth feels close to family members
Parental supervision		Parent problem with drugs	
Consistent, appropriate punishment for bad behavior			
Consistent, appropriate rewards for behavior			
Component 5	Component 6	Component 7	Component 8
History of siblings in jail	History of out-of-home placement for youth	No parent problems	Living with siblings
Currently have siblings in jail	History of petitions filed	Parent problem with mental health	No sibling problems
		Parent problem with physical health	
Component 9	Component 10	Component 11	Component 12
History of running away or being kicked out	Living with biological dad	Living with grandparents	Youth has been living under adult supervision
Youth has runaway or been kicked out			
Component 13	Component 14	Component 15	Component 16
History of extended family members in jail	Sibling problem with mental health	Living with non-biological mom	Living with short-term partner
Currently have extended family members in jail	Sibling problem with physical health		Living with romantic partner
Component 17	Component 18	Component 19	Component 20
Living transient	Living with family friends	Living with long-term partner	Living alone
	Living with parent's roommate		

Table 8 – Alcohol and Drugs Domain

	0 0		
Component 1	Component 2	Component 3	Component 4
Alcohol has disrupted	Alcohol currently	Currently using alcohol	Current drug use is to get
education	disrupted education	and/or drugs	high
Alcohol has caused family	Alcohol currently causes	Drugs currently disrupt	Current drug use has led
conflict	family conflict	education	youth to be withdrawn
Alcohol has interfered	Alcohol currently	Drugs currently causes	Don't dance uses was to get
with keeping pro-social	interferes with keeping	family conflict	Past drug use was to get high
friends	pro-social friends	ranniy connect	nign

Drugs have disrupted education	Alcohol currently contributes to criminal behavior	Drug choice – marijuana	Past drug use has led youth to be withdrawn
Drugs have caused family conflict			
Drugs have interfered with keeping pro-social friends			
Component 5	Component 6	Component 7	Component 8
Past alcohol use was to get high	History of alcohol and/or drug treatment referrals	Alcohol has caused health problems	Drug choice – amphetamines
Past alcohol use has led youth to be withdrawn	History of alcohol and/or drug education classes	Drug use has caused health problems	Drug choice – cocaine
Current alcohol use is to get high	History of participation in alcohol and/or drug treatment	Current alcohol has caused health problems	
Current alcohol use has led youth to be withdrawn		Current drug use has caused health problems	

# Table 9 – Mental Health Domain

Component 1	Component 2	Component 3	Component 4
Witness violence at home	History of ADHD medication/treatment	History of sexual abuse by family	History of suicidal ideation
History of anger	Currently has mental health problem	History of sexual abuse by others	Current thoughts of suicide
History of intensive anger	Currently has ADHD medication/treatment		
History of depression	Currently has mental health treatment, not relating to ADHD		
History of trauma	Currently prescribed mental health medication, not relating to ADHD		
	Current mental health problems interfere with working with youth		
Component 5	Component 6	Component 7	Component 8
History of somatic complaints	Experienced physical abuse in a foster home	History of physical abuse by family	Has previously made a suicide attempt
History of intensive somatic complaints	Witnessed physical abuse in a foster home		Has recently made a suicide attempt
Component 9	Component 10	Component 11	Component 12
History of physical by others	Has previously made a suicide plan	Has medical insurance	Currently suicide emotion of hopelessness
Experienced physical abuse with a weapon	Currently has a suicide plan		

Table 10 – Attitudes and Behaviors Domain

Component 1	Component 2	Component 3	Component 4
Level of optimism	Primary crime emotion – confidence	Accepts responsibility for anti-social behavior	Youth is law abiding
Impulsiveness	Primary crime emotion – excited	Minimizes responsibility for anti-social behavior	Youth is proud of anti- social behavior
Belief in controlling anti- social behavior			
Respect for authority			
Respect for other's property			
Youth's belief in successfully meeting condition of court supervision			
Component 5	Component 6	Component 7	Component 8
Believes anti-social behavior is acceptable	Primary crime emotion – indifference	Primary crime purpose – impulse	Primary crime purpose – money Primary crime purpose –
			peer status
Component 9	Component 10	Component 11	
Primary crime purpose – sex	Primary crime purpose – excitement	Primary crime purpose – power	
Primary crime purpose – anger			

Table 11 – Aggression Domain

Component 1	Component 2	Component 3	Component 4			
Tolerance for frustration	Reports of violence – deliberately inflicting pain	Reports of sexual violence – aggressive sex	Reports of sexual violence  – voyeurism			
Hostile interpretation of action and intentions of others in a common, non-confrontational setting	Reports of violence – using/threatening with a weapon	Reports of sexual violence – sex for power	Reports of sexual violence – exposure			
Belief in yelling/verbal aggression to resolve disagreement/conflict	Reports of violence – violent destruction of property					
Belief in fighting/physical aggression to resolve disagreement/conflict						
Component 5						
Reports of violence – fire						
starting						
Reports of violence – animal cruelty						

Table 12 – Skills Domain

omis Bomani
Component 1
Consequential thinking
Goal setting
Problem-solving
Situational perception
Dealing with others
Dealing with situations
Dealing with emotions
Monitoring internal triggers

Appendix IV. Full Assessment Model

	Male							Female				
			Any	Felony	Violent	Property	Drug	Any	Felony	Violent	Property	Drug
	Min	Max										
DOMAIN 1: CRIMINAL HISTORY												
0. Age at time of												
assessment												
17			4				4					
16			3				3					
15			2				2					
14 13 or under			0				0					
1. Age at 1st Offense			0				0					
Over 16			0	0	0	0	0	0	0	0	0	0
16			2	2	2	2	1	4	3	3	2	1
15			4	4	4	4	2	8	6	6	4	2
13 to 14			6	6	6	6	3	12	9	9	6	3
Under 13			8	8	8	8	4	16	12	12	8	4
2. Misdemeanor referrals  None or one			0	0	0	0	0	0	0		0	0
Two			1	2	1	1	1	1	2		1	1
Three or four			2	4	2	2	2	2	4		2	2
Five or more			3	6	3	3	3	3	6		3	3
3. Felony referrals												
None			0	0	0	0	0	0	0	0	0	0
One			2	4	2	2	2	2	4	1	2	2
Two			4	8	4	4	4	4	8	2	4	4
Three or more 4. Weapon referrals			6	12	6	6	6	6	12	3	6	6
None			0	0	0		0	0	0	0		0
One or more			1	1	1		1	1	1	3		1
5. Against-person												
misdemeanor referrals												
None					0					0		
One					2					3		
Two or more					4					6		
6. Against-person felony referrals												
None					0					0		
One or two					4					6		
Three or more					8					12		
9. Disposition orders												
where youth served at												
least one day confined in detention												
None			0	0	0	0	0	0	0	0	0	
One			3	2	1	1	1	3	1	1	1	
Two			6	4	2	2	2	6	2	2	2	
Three or more			9	6	3	3	3	9	3	3	3	
10. Disposition orders												
where youth served at												
least one day confined under JRA												
None			0	0	0	0	0	0	0	0	0	
One			6	4	2	2	2	6	2	2	2	
Two or more			9	8	4	4	4	12	4	4	4	
11. Escapes												
None			0	0	0	0	0	0	0	0	0	0
One			1	2	1	1	1	1	1	1	1	1
Two or more			2	4	2	2	2	2	2	2	2	2
12. Failure-to-appear in court warrants												
None			0	0	0	0	0	0	0	0	0	0
One			1	2	1	1	1	1	1	1	1	1
Two or more			2	4	2	2	2	2	2	2	2	2

1h. Youth is a special											
education student or has a											
formal diagnosis of a											
special education need (select all that apply)											
No Special Education		1	1	1	1	1	1	1	1	1	1
Behavior		3	2	1			2	2	3	2	
ADHD		1	1	2		1	1	1	1		1
Learning		1				1	1		3		
2c. Youth's current school											
enrollment status,											
regardless of attendance											
Graduated/GED/full-		4	2	2	4		2	2	4	2	
Enrolled part-time		-4 -2	-2 -1	-2 -1	-4 -2		-2 -1	-2 -1	-4 -2	-2 -1	
Suspended, dropped-out		-2	-1	-1	-2		-1	-1	-2	-1	
or expelled		6	3	3	6		3	3	6	3	
3h. Age at first expulsion											
or suspension											
No expulsions		-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
5 to 9 years old		2	2	2	2	2	2	2	2	2	2
10 to 13 years old		2	2	2	2	2	2	2	2	2	2
14 to 15 years old		1	1	1	1	1	1	1	1	1	1
16 to 18 years old		1	1	1	1	1	1	1	1	1	1
EXPULSIONS & CONDUCT SCALE	-1 3										
2h. History of expulsions											
and suspensions since the first grade											
No expel/suspend		-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
One expel/suspend		1	1	1	1	1	1	1	1	1	1
Two or more		2	2	2	2	2	2	2	2	2	2
8c. Number of expulsions											
and suspensions in the											
Mo expel/suspend		-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
One expel/suspend		1	1	1	1	1	1	1	1	1	1
Two or three		2	2	2	2	2	2	2	2	2	2
Over three		3	3	3	3	3	3	3	3	3	3
7c. Youth's conduct in the				-							
most recent term											
Recognition for good											
school behavior		-1	-1	-1	-2	-2	-2	-2	-2	-2	-2
No problems		-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
School problems											
reported by teachers		1	1	1	1	1	1	1	1	1	1
School problem calls to		1	1	1	1	1	1	1	1	1	1
parents		2	2	2	2	2	2	2	2	2	2
School problem calls to											
police		3	3	3	3	3	3	3	3	3	3
BELIEVE,	-4 4										
ENCOURAGE, & STAFF SCALE											
3c. Youth believes there is											
value in getting an											
education											
Believes		-1	-1		-1						-1
Somewhat believes		1	1		1						1
Does not believe		2	2		2						2
4c. Youth believes school											
provides an encouraging environment for him or											
her											
Believes		-1	-1		-1			-1			-1
Somewhat believes		1	1		1			1			1
Does not believe		2	2		2			2			2
5c. Teachers, staff, or											
coaches the youth likes or											
										-	

feels comfortable talking											
with											
None		0	0		0	0	0	0			0
One		-1	-1		-1	-1	-1	-1			-1
Two or more		-2	-2		-2	-2	-2	-2			-2
ASSESSMENT STAY, ATTENDANCE, ACADEMIC SCALE	-6 8										
6c. Youth's involvement in school activities during most recent term											
Two or more		-2	-2		-2	-2	-2	-2		-2	-2
One		- <u>-</u> 2	-2 -1		- <u>-</u> 2 -1	-1	- <u>-</u> 2	-1		-2 -1	-2
Not involved but		-1	-1		-1	-1	-1	-1		-1	-1
interested		1	1		1	1	1	1		1	1
Not interested		2	2		2	2	2	2		2	2
9c. Youth's attendance in											
the most recent term											
Good attendance; few											
excused absences		-2	-2		-2	-2	-2	-2		-2	-2
No unexcused absences		-1	-1		-1	-1	-1	-1		-1	-1
Some partial-day unexcused absences		1	1		1	1	1	1		1	1
Some full-day unexcused											
absences		2	2		2	2	2	2		2	2
Truancy or withdrawn		3	3		3	3	3	3		3	3
10c. Youth's academic performance in the most											
recent school term		2	2		2	2	2	2		2	2
Mostly As		-3 -2	-3 -2		-3 -2	-3 -2	-3 -2	-3 -2		-3 -2	-3 -2
Mostly As and Bs Mostly Bs and Cs, no Fs		- <u>-</u> 2	-2 -1		-2 -1	-2 -1	-2 -1	-2 -1		- <u>-</u> 2	- <u>-</u> 2 -1
Mostly Cs and Ds, some		-1	-1		-1	-1	-1	-1		-1	-1
Fs		1	1		1	1	1	1		1	1
Some Ds and mostly Fs		2	2		2	2	2	2		2	2
11c. Interviewer's											
assessment of likelihood											
the youth will stay in and											
graduate from high school											
or an equivalent vocational											
school											
Very likely		-1	-1	-1	-1	-1	-1	-1		-1	-1
Uncertain		1	1	1	1	1	1	1		1	1
Not likely  DOMAIN 4: FREE		2	2	2	2	2	2	2		2	2
TIME CURRENT	4 0										
STRUCTURED & UNSTRUCTURED	-4 0										
ACTIVITIES SCALE											
Current interest and											
involvement in structured											
recreational activities											
Two or more		-3		-3		-3	-3		-3		-3
One		-2		-2		-2	-2		-2		-2
Interested but not		4		4		4	4		4		4
involved Not interested		-1 0		-1 0		-1 0	-1 0		-1 0		-1
Not interested  Current interest and		U		U		U	U		U		U
involvement in											
unstructured recreational											
activities											
Two or more		-3		-3		-3	-3		-3		-3
One		-2		-2		-2	-2		-2		-2
Interested but not											
involved		-1		-1		-1	-1		-1		-1
Not interested		0		0		0	0		0		0
DOMAIN 5:											
EMPLOYMENT											

2h. History of successful											_
employment											
Never successfully											
employed		0			0	0	0			0	0
Has been successfully											
employed		-2			-1	-1	-1			-1	-1
3h. History of problems											_
while employed											
Never fired or quit					0	0					
Fired or quit: poor											
performance					1	1					
Fired or quit: not getting											
along					2	2					
HISTORY &	-5 0				_						
CURRENT	J v										
EMPLOYMENT											
RELATIONSHIPS &											
UNDERSTANDING											
SCALE											
4h. History of positive											
personal relationship(s)											
with past employer(s) or											
adult coworker(s)											
None		0	0	0	0	0	0	0	0	0	0
One		-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
Two or more		-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
4c. Current positive											
personal relationship(s)											
with employer(s) or adult											
coworker(s)											
Not currently											
employed/currently											
employed & no positive											
relationships		0	0	0	0	0	0	0	0	0	0
One or more		-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
1c. Understanding of what		-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
is required to maintain a											
job											
Lacks knowledge to											
maintain job		0	0	0	0	0	0	0	0	0	0
Has knowledge to		- 0		0		0	0	- 0			
maintain job		-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
Has demonstrated		-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
maintaining job		-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
2c. Current interest in		-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
employment											
Currently employed											-3
Highly interested											-2
Somewhat interested											-1
Not interested or too											^
young for employment											0
3c. Current employment											
status											
Employment going well			-1		-1						
Not employed			0		0						
Problems with											
employment			1		1						
DOMAIN 6:											
RELATIONSHIP											
HISTORY &	-6 0										
CURRENT											
RELATIONSHIPS											
WITH ADULTS											
SCALE											
1h. History of positive											
adult non-family											
relationships not											
connected to school or											
employment											
None									0		
-											

One								-1		
Two								-2		
Three or more								-3		
2h. Current positive adult										
non-family relationships										
not connected to school										
or employment										
None								0		
One								-1		
Two								-2		
Three or more								-3		
HISTORY &										
CURRENT										
RELATIONSHIPS										
WITH PROSOCIAL										
ONLY FRIENDS										
HISTORY &										
CURRENT										
RELATIONSHIPS										
WITH NONE/MIX										
OF PRO &										
ANTISOCIAL										
FRIENDS										
HISTORY &										
CURRENT										
RELATIONSHIPS WITH ANTISOCIAL										
ONLY FRIENDS HISTORY &										
CURRENT										
RELATIONSHIPS										
WITH GANG										
MEMBER FRIENDS										
2h. History of anti-social										
friends/companions										
(select all that apply)										
Only pro-social friends	-1					1				
Never had consistent	-1					1				
friends or mix of pro-										
social and anti-social										
friends		1			1	1	1			
Only anti-social friends				2			2		1	
Gang member/associate	3	3	3			3	3	3	3	
2-3c. Current anti-social		J								
friends/companions										
Only pro-social friends	-1					1				
No consistent friends or						-				
mix of pro-social and										
anti-social friends		1			1	1	1			
Only anti-social friends		1		2	1	1	2		1	
Gang member/associate	3	3	3			3	3	3	3	
4c. Currently in a							<u> </u>		<u> </u>	
"romantic," intimate, or										
sexual relationship										
Romantically involved:										
pro-social person	-1		-1		-1					
Not romantically	-1		-1		-1					
involved	0		0		0					
Romantically involved:	0		U		0					
anti-social person	1		1		1					
	1		1		1					
ADMIRES &										
ADMIRES & EMULATES										
ADMIRES & EMULATES  5c. Currently admires/										
ADMIRES & EMULATES  5c. Currently admires/ emulates anti-social peers		4	4	4	4	4		4	4	
ADMIRES & EMULATES  5c. Currently admires/ emulates anti-social peers  Does not admire	-2	-1	-1	-1	-1	-1		-1	-1	
ADMIRES & EMULATES  5c. Currently admires/ emulates anti-social peers Does not admire Somewhat admires	2	1	1	1	1	1		1	1	
ADMIRES & EMULATES  5c. Currently admires/ emulates anti-social peers  Does not admire  Somewhat admires  Admires										
ADMIRES & EMULATES  5c. Currently admires/ emulates anti-social peers  Does not admire  Somewhat admires  Admires  6c. Current resistance to	2	1	1	1	1	1		1	1	
ADMIRES & EMULATES  5c. Currently admires/ emulates anti-social peers  Does not admire  Somewhat admires  Admires	2	1	1	1	1	1	-2	1	1	

Usually resists			-2	-1	-1	-1	-1	-1	-1	-1	-1	-1
Rarely resists			2	1	1	1	1	1	1	1	1	1
Leads anti-social peers			4	2	2	2	2	2	2	2	2	2
			4									
DOMAIN 7: FAMILY	-4	10										
HISTORY & CURRENT FAMILY	-4	10										
CONFLICT,												
RUNAWAYS, & PARENTAL												
CONTROL SCALE												
2h. History of running												
away or getting kicked out												
of home												
No history												
One instance												
Two or more instances												
9c. Youth has run away or												
been kicked out of home												
No run away/kicked out												
Runaway/kicked out												
Currently a												
runaway/kicked out 11c. Level of conflict												
between parents, between												
youth and parents, among siblings												
Some family conflict:												
well managed												
Family verbal												
intimidation, arguments												
Family threats of												
physical abuse												
Domestic violence:												
physical/sexual abuse												
13c. Parental authority and												
control												
Usually follows family rules												
Sometimes follows												
family rules												
Consistently disobeys family												
Hostile toward family												
	1											
HISTORY OF OUT-	-1	5										
OF-HOME												
PLACEMENTS,												
PETITIONS, & LIVING IN FOSTER												
HOME SCALES												
1h. History of court-												
ordered or DSHS												
voluntary out-of-home and shelter care												
and shelter care placements exceeding 30												
days												
None			-1	-1	-1	-1		-1	-1	-1	-1	
One			1	1	1	-1 1		1	1	1	1	
Two												
Three or more			3	3	3	3		3	3	3	3	
			3	3	3	3		3	3	3	3	
3h. History of petitions												
filed			1	1	4	4		4	4	4	4	
None			-1	-1	-1	-1		-1	-1	-1	-1	
One			11	1	11	11		1	1	1	11	
Two or more			1	1	1	1		1	1	1	1	
5h. Youth has been living												
under any "adult												
supervision"												
No			2	2	11	11	1	2	11	11	1	2
Yes			-2	-2	-1	-1	-1	-2	-1	-1	-1	-2

4h-3c. HISTORY OF										
CURRENT FAMILY										
MEMBERS IN										
JAIL/PRISON (select										
all that apply)  Mother/female caretaker										
history	1	1		1	1	1	1	1	1	1
Father/male caretaker	1	1		1	-	1	1	1		
history	1	1		1		1				
Sibling history	1	1		1		1				
Current mother/female										
caretaker	1	1		1	1	1	1	1	1	1
Current father/male caretaker	1	1		1		1				
Current sibling	1	1		1		1				
Current other family	1	1		1		1				
member	1	1		1		1				
1c. YOUTH IS CURRENTLY LIVING WITH (PROTECTIVE,										
select all that apply) Alone	-2	-1	1	1	-1	1	-1	-1	1	1
Mother	-2 -4	-1	-1 -2	-1 -2	-1	-1 -3	-1 -1	-1	-1 -2	-1 -1
Father	-4	-2	-2	-2	-1	-3	-1	-1	-2	-1
Sibling	-4	-2	-2	-2	-1	-3	-1	-1	-2	-1
Grandparent	-2	-1	-1	-1	-1	-1	-1	-1	-1	-1
1c. YOUTH IS CURRENTLY LIVING WITH (RISK, select all that apply)										
Transient	2	4	3	1	1	1	1	2	2	1
Foster/group home	2	4	3	1	1	1	1	2	2	1
SIBLINGS CURREN'TLY INVOLVED WITH THE HOUSEHOLD (select all that apply)										
No siblings, none in										
household, or no										
problem Current sibling alcohol	-1							-2		
problem						1			1	
Current sibling drug						1			1	
problem						1			1	
Current sibling mental										
health problem						1			1	
Current sibling physical health problem						1			1	
Current sibling						1			1	
employment problem						1			1	
6c. Support network for										
family										
No family support										
Some family support					4					4
Strong family support  2c. Annual combined					-1					-1
income of youth and										
family					-2					-2
Under \$15,000										
\$15,000 to \$34,999										
\$35,000 to \$49,999										
\$50,000 and over										
4c. PROBLEM HISTORY OF PARENTS INVOLVED WITH THE HOUSEHOLD (select										
all that apply)										

None Alcohol problem										
Drug problem					1					1
Mental health problem										
Physical health problem										
Employment problem										
10c. FAMILY MEMBER(S) YOUTH FEELS CLOSE TO OR										
HAS GOOD RELATIONSHIP										
WITH (select all that										
Apply) None	1	1	1	1	1	1	1	1	1	1
Mother/female caretaker	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
Father/male caretaker	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
Sibling	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
Extended family	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
16c. Parental characterization of youth's										
anti-social behavior										
Disapproves of										1
Minimizes/excuses										-1
Okay with										-2
Proud of										-3
DOMAIN 8: SUBSTANCE ABUSE										
1h-1c. HISTORY &										
CURRENT ALCOHOL USE										
Past alcohol use	1					1				
Current alcohol use	2					2				
2h-2c. HISTORY & CURRENT DRUG USE										
Past drug use	3	1		2	2	2	1		1	1
Current drug use	6	2		4	4	4	2		2	2
2h-2c. DRUG ISSUES SCALE										
History and current										
alcohol/drug contribution to criminal behavior										
Past alcohol use										
contributed to criminal										
behavior	1				1	2			1	1
Past drug use										
contributed to criminal behavior	1				1	2			1	1
Alcohol contributes to	1				1				1	- 1
criminal behavior	2				2	4			2	2
Drug contributes to					_					
Criminal behavior	2				2	4	1		2	2
History and current alcohol/drug contribution										
to getting high/withdrawal										
Past alcohol use										
contributed to getting		2		2	2		2		2	4
high/withdrawal Past drug use		2		2	2		2		3	1
contributed to getting										
high/withdrawal		2		2	2		2		3	1
Alcohol contributes to										
getting high/withdrawal		4		4	4		4		6	2
Drug contributes to getting high/withdrawal										•
comic men/ withmawai		4		4	4		4		6	7
		4		4	4		4		6	2
History and current alcohol/drug contribution		4		4	4		4		6	2
History and current		4		4	1		4		6	2

contributed to education												
issues												
Past drug use												
contributed to education issues							1					1
Alcohol contributes to							•					
education issues							2					2
Drug contributes to education issues							2		1			2
History and current									1			
alcohol/drug contribution												
to family conflict Past alcohol use												
contributed to family												
conflict							1		1			1
Past drug use contributed to family												
conflict							1		1			1
Alcohol contributes to							_		_			
family conflict  Drug contributes to							2		2			2
family conflict							2		2			2
History and current												
alcohol/drug interferes												
with pro-social friendships Past alcohol use												
interferes with pro-												
social friendships												
Past drug use interferes with pro-social												
friendships												
Alcohol interferes with												
pro-social friendships Drug interferes with												
pro-social friendships									1			1
History and current												
alcohol/drug interferes with health												
Past alcohol use												
interferes with health												
Past drug use interferes with health												
Alcohol interferes with												
health												
Drug interferes with health									1			1
3c. TYPE OF DRUGS	0	3							1			1
CURRENTLY USED												
(select all that apply)			1			1	2	2			1	1
Marijuana/hashish Amphetamines			1 1	1	1	1 1	2 1	6	1	1	1 1	1
Cocaine			1	1	1	1	1	6	1	1	1	1
Heroin			1	1		1	1	6	1		1	1
Other drugs HISTORY &			1	1		1	1	6	1		1	1
CURRENT												
REFERRALS &												
TREATMENT FOR DRUG/ALCOHOL												
SCALE												
3h. History of referrals for												
drug/alcohol assessment Never referred			0				0	0				0
Diagnosed: no			U									
drug/alcohol problem			0				0	0				0
Referred but not assessed for												
drug/alcohol			1				1	1				1
Diagnosed drug/alcohol							_	_				
abuse			2				2	2				2

Diagnosed drug/alcohol										
dependency	3				3	3				
4h. History of attending										
alcohol/drug education										
classes for an										
alcohol/drug problem										_
Never attended	0				0	0				
Voluntarily attended	-3				-3	-3				
Parent, school directed	-2				-2	-2				
Court directed	-1				-1	-1				
5h. History of										
participating in										
alcohol/drug treatment										
program						0				
Never participated	0				0	0				
Participated once	-1				-1	-1				_
Participated several										
times	-1				-1	-1				_
No known issue	-2				-2	-2				_
4c. Alcohol/drug										
treatment program										
participation										
Treatment not	0	0		0	0	0	0		0	
Warranted Cymrontly needs	0	0 1		0	0	0	<u>0</u> 1		<u>0</u> 1	
Currently needs										
Currently attending	-1 -2	-1 -2		-1 -2	-1 -2	-1 -2	-1 -2		-1	_
Successfully completed									-2	_
No known issue	-3	-3		-3	-3	-3	-3		-3	_
DOMAIN 9: MENTAL										
HEALTH										_
2h. HISTORY OF										
PHYSICAL ABUSE										
(select all that apply) Physically abused by										
family member			1					1		
Physically abused foster			1					1		_
home			1					1	3	
Physically abuse with			1					1		_
weapon		2	2					1		
3h. HISTORY OF										
SEXUAL ABUSE										
(select all that apply)										
Not a victim of sexual										_
abuse										
Sexually abused by family										_
member		1	1	1						
Sexually abused: outside										_
the family										
History of being a victim										
of neglect			1					1		
4h. History of										
ADD/ADHD										
No history	-1	-1	-1	-2	-1	-1	-2	-1	-1	
Diagnosed	1	1	1	2	1	1	2	1	1	
ADD/ADHD										_
medication prescribed	1	1	1	2	1	1	2	1	1	
ADD/ADHD treatment										_
prescribed	1	1	1	2	1	1	2	1	1	
ADD/ADHD										
medication and										
treatment prescribed	2	2	2	4	2	2	4	2	2	
HISTORY OF										
WITNESSING										
VIOLENCE (select all										
that apply)										
TT	-5	-2	-2	-1	-1			-1		_
Has not witnessed Witnessed violence at	-5									_

Witnessed violence in											
Community Witnessed violence at											
foster home		10	5	6	9	1			2		
MENTAL HEALTH		10	<u> </u>	0	2	1					
ISSUE (select all that											
apply)											
Anger/intensive anger				2					4	1	1
Depression											
Somatic complaints											
2c. Currently diagnosed											
with ADD/ADHD											
Taking ADD/ADHD		4				-1	4	4		1	
medication No ADD/ADHD		-1				-1	-1	-1		-1	
diagnosis, no											
ADD/ADHD											
medication		0				0	0	0		0	
ADD/ADHD											
medication prescribed,											
but not taking		1				1	1	1		1	
7h. Health insurance											
No		0	0	0	0	0	0	0	0	0	0
Yes		-1	-2	-1	-1	-1	-1	-1	-1	-1	-1
1c. Current suicide											
Recent serious thoughts											
of suicide											
No recent thoughts of											
suicide				1		1					
Recently planned				1		-					
suicide				3					1		
Recently attempted											
suicide				4							
MENTAL HEALTH	-6 4										
PROBLEMS											
6h. History of mental health problems				0			0	0	0		
No history				1			1	1	1		
Diagnosed with mental				1			1	1	1		
health problem(s)				1			1	1	1		
Mental health											
medication prescribed				1			1	1	1		
Mental health treatment											
prescribed				2			2	2	2		
Mental health											
medication and											
8h. Current mental health											
on. Current mental health problem status				-4			-4	-4	-4		
No current mental				-+							
health problem(s)				0			0	0	0		
Current mental health											
problem(s)											
3c. Mental health											
treatment currently											
prescribed, excluding											
ADD/ADHD treatment				-1			-1	-1	-1		
Attending mental health treatment				0			0	0	0		
No current mental				U			U	U	U		
health problem or no											
mental health treatment											
currently prescribed				1			1	1	1		
Mental health treatment											
prescribed but not											
attending											
4c. Mental health											
medication prescribed,				4			4	4	4		
excluding ADD/ADHD				-1			-1	-1	-1		

Taking mental health											
medication				0			0	0	0		
No mental health											
problem or no mental health medication											
currently prescribed				1			1	1	1		
Mental health				1			1	1	1		
medication prescribed											
but not taking				0			0	0	0		
DOMAIN 10:											
ATTITUDES/BEHAVI											
OR											
BELIEF ITEMS	-10 21										
1. Primary emotion when											
committing last crime(s)											
within the last 6 months											
(select all that apply)		1				1					
Unconcerned/indifferent Nervous, afraid, worried,		-1				-1					
uncertain		-1				-1					
Excited, or stimulated		3	1	2	1	1	2	1	1	1	1
Confident/bragging		3	1	2	1	1	2	1	1	1	1
2. Primary purpose for		<i>J</i>	1		1	1		1	1	1	1
committing crime(s)											
within the last 6 months											
(select all that apply)											
Anger		3	1	2	1	1	2	1	1	1	1
Revenge		3	1	2	1	3	2	1	1	1	1
Impulse		3	1	2	1	1	2	1	1	1	1
Sexual desire											
Money, material gain,											
drugs		3	1	2	1	1	2	1	1	1	1
Excitement, amusement		3	1	2	1	1	2	1	1	1	1
Status, acceptance,				_		_					
attention		3	1	2	1	2	2	1	1	1	1
3. Optimism											
High aspirations: sense											
of purpose, commitment to better life		-2			-2	-2	-2	-2	-2	-2	-2
Normal aspirations:		-2			-2	-2	-2	-2	-2	-2	-2
some sense of purpose		1			1	1	1	1	1	1	1
Low aspirations: little		-			-		-	-	•	-	
sense of purpose or											
plans for better		1			1	1	1	1	1	1	1
Believes nothing											
matters: he or she will be											
dead before long		2			2	2	2	2	2	2	2
4. Impulsive; acts before											
thinking											
Uses self-control: usually		_			_		_	_	_	_	
thinks before acting		-2			-2		-2	-2	-2	-2	
Uses some self-control:											
sometimes thinks before acting		1			1		1	1	1	1	
Impulsive: often acts		1			1		1	1	1	1	
before thinking		1			1		1	1	1	1	
Highly impulsive: usually		1			1		1	1	1	1	
acts before thinking		2			2		2	2	2	2	
5. Belief in control over											
antisocial behavior											
Believes can stop anti-											
social behavior		-1			-1		-1	-1	-1	-1	
Somewhat believes can			_	_							
stop anti-social behavior		0			0		0	0	0	0	
D. II											
Believes cannot stop		1			1		1	1	1	1	
anti-social behavior											
anti-social behavior 6. Empathy, remorse,		-									
anti-social behavior  6. Empathy, remorse, sympathy, or feelings for											
anti-social behavior 6. Empathy, remorse,		1									

Has empathy Has some empathy			-1 0			-1 0	-1 0	-1 0	-1 0	-1 0	
Does not have empathy			1			1	1	1	1	1	
7. Respect for property of						<del>-</del>					
others											
Respects property of others			-1	-1		-1	-1	-1	-1	-1	
Respects personal, not			-1	-1		-1	-1	-1	-1	-1	
publicly accessible,											
property			1	1		1	1	1	1	1	
Conditional respect for personal property:			1	1		1	1	1	1	1	
No respect for			1	1		1	1	1	1	1	
personal/public											
property			2	2		2	2	2	2	2	
8. Respect for authority											
Respects most authority											
figures			-1			-1	-1	-1	-1	-1	
Does not respect											
authority figures			1			1	1	1	1	1	
Resents most authority figures			2			2	2	2	2	2	
Defies/hostile toward			4			<u> </u>					
most authority figures			3			3	3	3	3	3	
9. Attitude toward pro-											
social rules/conventions											
in society  Believes pro-social rules											
apply			-1			-1	-1	-1	-1	-1	
Believes pro-social rules											
sometimes apply			1			1	1	1	1	1	
Does not believe pro-			2			2	2	2	2	2	
social rules apply Resents or is defiant							Δ			<u> </u>	
toward rules			3			3	3	3	3	3	
11. Youth's belief in											
successfully meeting											
conditions of court supervision											
Believes will be											
successful under											
supervision			-1	-1		-1	-1	-1	-1	-1	
Unsure of success under supervision			0	0		0	0	0	0	0	
Does not believe will be			- 0	0			0		0		
successful under											
supervision			1	1		1	1	1	1	1	
10. Accepts responsibility for anti-social behavior											
(select all that apply)											
Accepts responsibility			-1			-1	-1	-1	-1	-1	
RESPONSIBILITY											
SCALE											
Minimizes, denies, justifies, excuses, or											
blames others for own											
behavior				1	1		1	1			
Accepts own anti-social				4	4		4	4			
behavior okay Proud of own anti-social				1	1		1	1			
behavior				1	1		1	1			
DOMAIN 11:											
AGGRESSION											
AGGRESSION	-5	8									
BELIEFS 1. Tolerance for											
frustration											
Rarely gets											
upset/temper tantrums				-1	-3		-1		-1		

Sometimes gets										
upset/temper tantrums		1	3			1		1		
Often gets upset/temper		2				2		2		
tantrums		2	6			2		2		
2. Hostile interpretation of actions and intentions of										
others in a common non -										
confrontational setting										
Primarily positive view		-1	-3			-1		-1		
Primarily positive view		1	3			1		1		
Primarily hostile view		2	6			2		2		
3. Belief in yelling and										
verbal aggression to										
resolve a disagreement or										
conflict										
Believes verbal										
aggression is rarely										
appropriate		-1	-3			-1		-1		
Believes verbal										-
aggression is sometimes										
appropriate		1	3			1		1		
Believes verbal										
aggression is often										
appropriate		2	6			2		2		
4. Belief in fighting and										
physical aggression to										
resolve a disagreement or										
conflict										
Believes physical										
aggression is never										
appropriate	-2	-2	-6			-2	-2	-2		
Believes physical										
aggression is rarely										
appropriate	-1	-1	3			-1	-1	-1		
Believes physical										
aggression is sometimes										
appropriate	1	1	3			1	1	1		
Believes physical										
aggression is often	2	2				2	2	2		
appropriate	2	2	6			2	2	2		
5. REPORTS OR										
EVIDENCE OF VIOLENCE NOT										
INCLUDED IN										
CRIMINAL HISTORY										
(select all that apply)										
Violent destruction of										
property	1	2	1			1	1	2		
Violent outbursts, displays	•		-			-	•			
of temper, uncontrolled										
anger indicating potential										
for harm	1	2	1			1	1	2		
Deliberately inflicted										
physical pain	1	2	1			1	1	2		
Used/threatened with a										-
weapon	1	2	4			1	1	2		
Fire starting reports	1	2	1	5		1	1	2	3	1
Animal cruelty reports	1	2	1	1		1	1	2	1	1
6. REPORTS/EVIDENCE										
OF SEXUAL										
AGGRESSION NOT										
INCLUDED IN										
CRIMINAL HISTORY										
No reports	-3	-1	-3	-3	-2	-4	-3	-3	-3	-1
Reports of aggressive sex	3	1	3	3	2	4	3	3	3	1
Reports of sex for power	3	1	3	3	2	4	3	3	3	1
Reports of child sex	3	1	3	3	2	4	3	3	3	1
Reports of voyeurism	3	1	3	3	2	4	3	3	3	1
Reports of exposure	3	1	3	3	2	4	3	3	3	1
DOMAIN 12: SKILLS										

SKILLS DOMAIN -2	28 15									
1. Consequential thinking										
Does not understand										
about consequences of										
actions	1	1	1	1	1	1	1	1	1	1
Understands about										
consequences to actions	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
Identifies consequences										
of actions	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Good consequential	_		_	_	_		_			
thinking and acting	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3
2. Goal setting										
Does not set any goals	2	2	2	2	2	2	2	2	2	2
Sets unrealistic goals	1	1	1	1	1	1	1	1	1	1
Sets somewhat realistic	,									
goals	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
Sets realistic goals	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
3. Problem-solving										
Cannot identify problem										
behaviors	1	1	1	1	1	1	1	1	1	1
Identifies problem		-		_						
behaviors	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
Thinks of solutions for	_	_	_	_	_	_	_	_	_	_
problem behaviors	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Applies appropriate										
solutions to problem		_	_	_	_	_	_	_	_	_
behaviors	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3
4. Situational perception										
Cannot analyze the										
situation for use of a			_							
prosocial skill	1	1	1	1	1	1	1	1	1	1
Does not choose the										
best pro-social skill	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
Chooses best skill but	_		_	_			_		_	
not best time and place	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Selects the best time and						•			2	
place for best skill	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3
5. Dealing with others										
Lacks basic social skills			_							
in dealing with others	1	1	1	1	1	1	1	1	1	1
Lacks advanced skills in										
dealing with others	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
Sometimes uses										
advanced social skills in						•	•		•	
dealing with others	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Often uses advanced										
social skills in dealing	2	2	2	2	2	2	2	2	2	2
with others	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3
6. Dealing with difficult										
situations										
Lacks skills in dealing	2	2	2	2	2	2	2	2	2	2
with difficult situations	2	2	2	2	2	2	2	2	2	2
Rarely uses skills in										
dealing with difficult	1	1	1	1	1	1	1	1	1	1
Sometimes uses skills in	1	1	1	1	1	1	1	1	1	1
dealing with difficult										
situations	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
Often uses skills in	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
dealing with difficult										
situations	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
7. Dealing with	-2	-2	-2	-2	-2	-4	-2	-2	-4	-2
feelings/emotions										
Lacks skills in dealing										
with feelings	2	2	2	2	2	2	2	2	2	2
Rarely uses skills in					4	4	4		4	
dealing with feelings	1	1	1	1	1	1	1	1	1	1
Sometimes uses skills in	1	1	1	1	1	1	1	1	1	1
dealing with feelings	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
deaning with recinigs	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1

Often uses skills in										
dealing with feelings	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
8. Monitoring of internal										
triggers										
Cannot identify internal										
triggers	1	1	1	1	1	1	1	1	1	1
Identifies internal										
triggers	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
Actively										
monitors/controls										
internal triggers	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
9. Monitoring of external										
triggers										
Cannot identify external										
triggers	1	1	1	1	1	1	1	1	1	1
Identifies external										
triggers	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
Actively										
monitors/controls										
external triggers	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
10. Control of impulsive										
behaviors that get youth										
into trouble										
Never a problem with										-
impulsive behavior	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3
Lacks techniques to										
control impulsive										
behavior	1	1	1	1	1	1	1	1	1	1
Knows techniques to										
control impulsive										
behavior	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
Uses techniques to										
control impulsive										
behavior	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
11. Control of aggression										
Never a problem with										
aggression	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3
Lacks alternatives to	<u> </u>									
aggression	2	2	2	2	2	2	2	2	2	2
Rarely uses alternatives										
to aggression	1	1	1	1	1	1	1	1	1	1
Sometimes uses	1		1	1	1	1	1	1	1	1
alternatives to aggression	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
Often uses alternatives	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
to aggression	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
10 48810331011	-2	-2	-2	-2	-2	-4	-4	-4	-4	-4

**Full Assessment Modeling Results** 

		1 411	113303311	iciit iviouc	mig ites	uits				
			Male					Female		
	Any	Felony	Violent	Property	Drug	Any	Felony	Violent	Property	Drug
MODEL AUC	0.67	0.68	0.67	0.66	0.65	0.64	0.67	0.7	0.64	0.67
CURRENT AUC	0.63					0.60				
CUT POINT										
Low-Moderate	-33					-28				
Moderate-High	22	23	15	15	12	60	55	47	40	40
POPULATION										
%										
Low	3					3				
Moderate										
High	50	50	50	49	50	17	8	12	14	14
RECIDIVISM %										
Low	19					20				
Moderate										
High	64	31	29	38	11	59	24	30	32	8
GENDER-										
NEUTRAL										
BASE RATE	34	16	14	19	5	34	16	14	19	5

# Appendix V. Construct Validity (EFA and CFA)

The literature suggests that the construct validity of the criminogenic needs of most of the existing RNA instruments has not been fully established (Mei, 2018), in part due to the lack of dynamic items in the construction of the risk/needs assessment tools (Hamilton et al, 2016; Viglione, Rudes, & Taxman, 2014). Additionally, validation studies adhering to the industry standards and protocols have not been conducted (Mei, 2018). In order to validate the construct validity of criminogenic needs assessed by an RNA tool, each of the following performance criterions must be supported: (1) evidence on internal latent structure; (2) convergent/discriminate validity; (3) concurrent and predictive validity; and (4) content validity (Hayens, 1995; Rios & Wells, 2014; American Educational Research Association [AERA]; American Psychological Association [APA]; National Council on Measurement in Education [NCME], 2014). The purpose of the analyses presented here is to establish the construct validity of the criminogenic needs assessed by the PACT. Specifically, we examined its internal latent structure and convergent/divergent validity via rigorous psychometric analyses.

## Sample

To evaluate the construct validity of the PACT, we utilized a total sample of 45,975 juveniles from Washington State. These youths' risk and needs were assessed between December 10th, 2003 and June 30th, 2017. The sample includes 34,220 males and 11,755 females.

#### Method

To evaluate the construct validity of the criminogenic needs assessed by the PACT, this study utilizes a series of statistical tests to examine all of the objective sub-types of construct validity, including: (1) evidence of an internal latent structure; (2) convergent and discriminate validity; and (3) concurrent and predictive validity. The content validity will not be directly evaluated because it requires Subject-Matter-Experts (SMEs) direct and subjective input (Sireci & Faulkner-Bond, 2014). The analyses will be conducted within the framework of Structural Equation Modeling (SEM). When testing the statistical relationships among each of manifest items, analyses will be conducted within the theoretical framework of Item Factor Analysis (IFA) or Item Response Theory (IRT), as the items are categorical in nature. Although IFA and IRT are considered independent theoretical frameworks, there are no substantial differences between them (Thomas, 2011). When testing the statistical relationships among the composite scores or scales, analyses will be conducted within the theoretical framework of Classical Test Theory ([CTT]; Spearman, 1904; Zimmerman, 1975; Lord & Novick, 1968; Steyer & Eid, 2001) due to the continuous nature of the composite scores.

#### (a) Internal Latent Structure

The internal latent structure validity of an RNA is established when the proposed independent measures of the constructs are identified, confirmed and supported by empirical evidence. The internal latent structure validity involves three aspects: dimensionality; measurement invariance; and reliability (Rios & Wells, 2014).

# 1. Internal Latent Structure - Dimensionality

The most common method to establish dimensionality validity is through a CFA (DeVellis, 2003). For constructs that have multiple dimensions/domains, a Second/Higher Order Modeling approach is the most acceptable method to confirm a construct's multi-dimensionality (Rios & Wells, 2014; Mei et al., 2017; Mei et al., 2018). A CFA is generally used to confirm the proposed or hypothesized number of factors. The higher order modeling approach is utilized to extract a higher order factor that explains common variance

among lower level factors (Chen, Sousa & West, 2005; Geiser, 2012; Little, 2013; Mei et al., 2017; Mei et al., 2018b).

## 2. Internal Latent Structure - Measurement Invariance

Measurement invariance represents a lack of systematic assessment bias based on items' functionality and one's group membership (Mei, 2018). A RNA's measurement invariance can be established at item level for lower level factors and scale level for higher order factors (Mei, 2018). For scale level invariance, the measurement invariance concerns whether or not the measurement lacks systematic bias across different assessment groups. In this study, gender is used as the group membership because of concerns regarding misclassification of female offenders (Berman, 2005; Bloom, Owen, & Covington, 2003; Van Voorhis & Presser, 2001). If a higher order factor model is retained, then the statistical equivalence of the factor loadings is further tested. To assess item and scale invariance, Multiple Group Confirmatory Factor Analysis ([MGCFA]; Rios & Wells, 2014) is used. MGCFA takes advantage of the CFA and group membership, enabling researchers to evaluate dimensionality and measurement invariance in unified statistical models (Mei, 2018).

## 3. Internal Latent Structure - Scale Reliability

Scale reliability (construct reliability) concerns the internal consistency of the proposed measures. When evaluating scale reliability, Cronbach's alpha is used to evaluate scales that passed the item invariance tests (Mei, 2018). Cronbach's alpha coefficient is only considered a fair estimate of a scale's internal consistency when a scale passed metric level invariance, is tau-equivalent, or is parallel (Cortina, 1993; John & Soto, 2007; Peters, 2014; Raykov, 2001a; Raykov, 2001b; Sijtsma, 2009; Tavakol & Dennick, 2011). If these conditions are not met, the *wh* reliability coefficient (Revelle & Zinbarg, 2009, Joreskog, 1971; Dillon & Goldstein, 1984) is the preferred construct reliability estimator, as it does not assume item invariance for a congeneric non-parallel scale.

## 4. Internal Latent Structure - Global Risk-Needs Factor (G-Factor)

Similar to most RNA instruments, the PACT assumes that there is an objective and global criminogenic need that could be measured by estimating each assessment domain/construct. Before testing the Global Criminogenic Needs Factor, the weighted composite scores of each assessment construct will be used as indicators in the final model. This procedure allows researchers to use only the true score variance of these constructs given the fact that most of the constructs are multi-dimensional in nature. The unweighted scores contain both true score variance and factors disturbance. The weighted composite allows researchers to exact only the reliable proportion of total variance of a given factor so that the unbiased statistical relationships among the confirmed constructs can be fairly estimated (Mei, 2018).

# (b) Convergent/Divergent Validity

While the convergent validity test evaluates how well theoretically related items or scales converge with one another, the divergent validity test assesses how much theoretically unrelated items or scales discriminate (e.g. differ) from one another. Convergent and divergent validity can be established at both the item and scale level. The PACT contains eight domains and proposes to represent eleven distinguishable criminogenic needs. By first conducting convergent/divergent validity tests at the item level, this study will empirically test whether the proposed domains stand as independent constructs. Convergent and divergent validity will further be examined at the scale level once the internal latent structure is confirmed through MGCFA.

The most acceptable and available method to test convergent and divergent validity is with an EFA (Brown, 2014; Mei, 2018). To test the convergent and divergent validity of the items, we break the PACT

items into five groups. Instead of analyzing all of the items and their convergent and divergent validity in one EFA model, this procedure enables us to obtain the convergent and divergent validity much more efficiently while also maintaining statistical integrity. EFA analyses will be conducted on each of the 10 possible group combinations amongst the five groups. At the scale level, the EFA will be conducted to test the level of convergence and divergence amongst the scales once their dimensionality is confirmed. Based on the EFA evidence, we will further test the legitimacy of exacting a higher order factor through MGCFA with structural and measurement invariance tests. A higher order factor will only be retained if the higher order factor does not contribute to detrimental model fit and if it does not fail measurement invariance tests at factor level.

#### **Analytical Strategy**

When testing the internal latent structure of the PACT, this study will utilize MGCFA analyses and associated statistical criterions to evaluate dimensionality, measurement invariance and construct reliability. Once the internal latent structure of the PACT is confirmed and measurement invariance is achieved, the CFA analysis will be used to test the hypothesized higher order G-factor true score variance model. This study will also use the industry statistical criterions and acceptable standards when evaluating CFA or MGCFA models (e.g. the CFI, TLI, RMSEA, and associated rules to examine the fit of IRT/IFA models). A model has an acceptable fit if the CFI/TLI is greater than 0.90 and the RMSEA is less than 0.08 (Brown, 2014; Little, 2013; Want & Wang, 2012). The fit is close or good if the CFI/TLI is greater than 0.95 and the RMSEA is less than 0.05. To evaluate measurement invariance, the measurement invariance model will be compared to previous models via changes in the CFI and TLI values (see Little, 2013).

Scale reliability will be estimated according to the level of measurement a factor achieved. Both Cronbach's alpha and the *wh* coefficient will be calculated to assess reliability. When evaluating the G-Factor model, this study will follow the procedure proposed by Mei (2018, p.91). This approach enables researchers to establish a parsimonious model in which multidimensional/higher order factors' true score variance is used. The EFA tests will be used to evaluate the convergent and divergent validity of the PACT at both the item and scale level. Although there are multiple available EFA model evaluation criterions, this study will only use Kaiser-Guttman rule, goodness of fit, strength of the loading/cross-loading, and theory as foundation to facilitate the model evaluation process, as suggested by Mei (2018).

#### Results

First, we examine convergence and divergence of PACT items. Item(s) may be relocated to other scales according to EFA results. Once the convergent and divergent validity is established at the item level, MGCFA will be conducted to confirm the PACT's internal latent structure. We then use an EFA to evaluate convergence and divergence at the scale level, and results from this analysis is then used to inform higher order modeling. Once the higher order factors are identified and confirmed, their composite scores and construct reliability will be assessed. Finally, the G-factor model will be evaluated by using the true/reliable score variance as indicators.

## Convergent/Divergent Validity at Item Level

The EFA analyses were conducted on all ten possible group combinations. Group 1 contains domain 3, 4, 5 and 6. Group 2 only contains domain 7, while Group 3 only consists of domain 8. Group 4 contains domain 9 and 10. Group 5 involves domains 11, 12 and 13. The results of the EFA analyses at the item level are presented in Tables 1 through 11. Table 1 provides the best model solution for each group combination while subsequent tables display factor loadings.

Table 1. EFA on Group Combinations

		I ubic	I. Elli on Glou	p Comomunions	
Groups	Model	df	CFI	TLI	RMSEA [90% C.I.]
1 & 2	9 factors	397	.997	.995	.031 [.031031]
1 & 3	10 factors	486	.994	.989	.034 [.033034]
1 & 4	8 factors	427	.997	.996	.030 [.029030]
1 & 5	7 factors	489	.996	.994	.037 [.036037]
2 & 3	9 factors	342	.993	.988	.023 [.022023]
2 & 4	6 factors	319	.966	.948	.032 [.032032]
2 & 5	7 factors	318	.986	.977	.033 [.033033]
3 & 4	6 factors	429	.990	.985	.025 [.025026]
3 & 5	7 factors	428	.987	.979	.038 [.037038]
4 & 5	5 factors	373	.981	.973	.036 [.036037]

Table 2 EFA on Group 1 (D3 D4 D5 D6) + Group 2 (D7)

Item	Var Name	F1	F2	F3	F4	F5	F6	F7	F8	F9
Enrollment	D3B1AN	.891								
Involvement	D3B6N	.746								
Attendance	D3B3A1	.949								
Value in Ed	D3B4N	.935								
Encourage	D3B5N	.665								
Staff Comfort	D3B7N	.645	.564							
Conduct	D3B8N	.749	.538							
Suspend/Expel	D3B9N	.770								
Performance	D3B10N	.721								
Assess Stay	D3B11N	.808								
Structured Activity	D4B1N			.889						
Type of Structured Activity	D4B2N			1.016						
Unstructured Activity	D4B3N									
Understand Job Maintain	D5B1N				.759					
Current Interest	D5B2N				.918					
Employment Status	D5B3N									
Positive Adult	D6B1N					.720				
Community Ties	D6B2N					.658				
Friends/Companions	D6B3N						.671			
Romantic Relationship	D6B4N									
Admires/Emulates	D6B5N						.865			
Resistance to Anti-social	D6B6N						.817			
Annual Income	D7B1N							.324		
Risk 'Living With' Relationship	D7B2N							.473		
Family Jail/Prison	D7B3N								.763	
Parent Problem	D7B4N								.745	
Sibling Problem	D7B5N								.435	
Support Network	D7B6N							.593		
Willing to Support	D7B7N							.867		
Opportunities for Family Activities	D7B8N							.791		
Run away/kicked out	D7B9N									.474
Family Member Relationships	D7B10N							.320		
Level of Family Conflict	D7B11N									.713
Parental Supervision	D7B12N							.736		
Parental Authority	D7B13							.477		.352
Consistent Punishment	D7B14N							.568		
Consistent Rewards	D7B15N							.754		
Parental Characterization Youth's Behavior	D7B16N							.427		

As shown in Table 1, a nine-factor solution represented the best model for Groups 1 and 2. The corresponding factor loadings for this model are moderate to strong (see Table 2). Accordingly, there is divergent validity at the item level for domains 3, 4, 5, 6 and 7. Convergent validity is also demonstrated by within domain loadings with the exception of the 'Unstructured Activity', 'Employment Status' and 'Romantic Relationship' items. These three items did not load onto their theoretically hypothesized domains.

Table 3 EFA on Group 1 (D3 D4 D5 D6) + Group 3 (D8)

Item	Var Name	F1	F2	F3	F4	F5	F6	<b>F</b> 7	F8	F9	F10
Enrollment	D3B1AN	.837									
Involvement	D3B6N	.685									
Attendance	D3B3A1	.918									
Value in Ed	D3B4N	.899									
Encourage	D3B5N	.532									
Staff Comfort	D3B7N	.685	.546								
Conduct	D3B8N	.785	.560								
Suspend/Expel	D3B9N	.722									
Performance	D3B10N	.695									
Assess Stay	D3B11N	.798									
Structured Activity	D4B1N			.984							
Type of Structured Activity	D4B2N			.953							
Unstructured Activity	D4B3N										
Understand Job Maintain	D5B1N				.776						
Current Interest	D5B2N				.923						
Employment Status	D5B3N										
Positive Adult	D6B1N					.734					
Community Ties	D6B2N					.585					
Friends/Companions	D6B3N						.597				
Romantic Relationship	D6B4N										
Admires/Emulates	D6B5N						.860				
Resistance to Anti-social	D6B6N						.792				
Marijuana Use	D8B3 1							1.008			
Meth use	D8B3_2							11000		.644	
Cocaine/Crack Use	D8B3_3									.627	
Heroin/Opiate Use	D8B3 4									.682	
Other Drug Use	D8B3_5									.475	
Alcohol Disrupts Ed	D8B1_2								.912		
Alcohol Family Conflict	D8B1_3								.925		
Alcohol Interferes Pro-Social Friends	D8B1_4								.874		
Alcohol Use Health Problems	D8B1_5								.931		
Alcohol Contributes Criminal Behavior	D8B1_6								.876		
Alcohol Tolerance	D8B1_7								.622		.642
Alcohol Withdrawal	D8B1_8								.641		.632
Drug Disrupts Ed	D8B2_2							.563	.392		.052
Drug Family Conflict	D8B2_3							.575	.103		
Drug Interferes Pro-Social Friends	D8B2_4							.572	.408		
Drug Use Health Problems	D8B2_5							.5/2	.462	.517	
Drug Contributes Criminal Behavior	D8B2_6							.487	.314	.011	
Drug Contributes Criminai Benavior Drug Tolerance	D8B2_7							.340	.514		.711
Drug Withdrawal	D8B2_8							.547			.781
Treatment	D8B2_8 D8B4							.708			.701

A 10-factor solution represented the best fit for the combination of Groups 1 and 3. As shown in Table 3, there are no cross-loading across the domains; thus, divergent validity at the item level is present for domain 3, 4, 5, 6, and 8. Convergent validity for most of the items is substantiated with the exception of: 'Unstructured Activity'; 'Employment Status'; and 'Romantic Relationship'. These items did not load onto their proposed domains.

Table 4 EFA on Group 1 (D3 D4 D5 D6) + Group 4 (D9 D10)

Item	Var Name	F1	F2	F3	F4	F5	F6	<b>F7</b>	F8
Enrollment	D3B1AN	.957							
Involvement	D3B6N	.747							
Attendance	D3B3A1	.934							
Value in Ed	D3B4N	.920							
Encourage	D3B5N	.569							
Staff Comfort	D3B7N	.803	.536						
Conduct	D3B8N	.915	.556						
Suspend/Expel	D3B9N	.808							
Performance	D3B10N	.740							
Assess Stay	D3B11N	.803							
Structured Activity	D4B1N			.798					
Type of Structured Activity	D4B2N			1.096					
Unstructured Activity	D4B3N								
Understand Job Maintain	D5B1N				.784				
Current Interest	D5B2N				.760				
Employment Status	D5B3N								
Positive Adult	D6B1N					.769			
Community Ties	D6B2N					.732			
Friends/Companions	D6B3N						.573		
Romantic Relationship	D6B4N								
Admires/Emulates <sup>1</sup>	D6B5N						.710		
Resistance to Anti-social	D6B6N						.707		
Suicide Ideation	D9B1_8N							.694	
ADD/ADHD	D9B2N							.709	
Treatment	D9B3N							.926	
Medication	D9B4N							.923	
MH Issue Interfere Working with Youth	D9B5N							.816	
Primary Criminal Emotion	D10A1N								.310
Primary Criminal Purpose	D10A2N								
Optimism	D10A3N								.418
Impulsive	D10A4N								.494
Belief in Control Actions	D10A5N								.615
Empathy	D10A6N								.652
Respect Property	D10A7N								.788
Respect Authority	D10A8N								.605
Pro-Social Conventions	D10A9N								.758
Accepts Responsibility	D10A10N								.535
Belief in Success	D10A11N								.801

We retained an eight-factor solution for Groups 1 and 4. Table 4 shows that the eight-factor solution has no cross-loadings. Divergent validity is supported by a clear pattern of cross-loadings. Convergent validity for most items is supported by their within domain loadings. The 'Unstructured Activity', 'Employment Status', 'Romantic Relationship', and 'Primary Criminal Purpose', items have questionable convergent validity, as they did not load onto their corresponding domains.

Table 5 EFA on Group 1 (D3 D4 D5 D6) + Group 5 (D11 D12)

Item	Var Name	F1	F2	F3	F4	F5	F6	F7
Enrollment	D3B1AN	.951						
Involvement	D3B6N	.737						
Attendance	D3B3A1	.945						
Value in Ed	D3B4N	.937						
Encourage	D3B5N	.611						
Staff Comfort	D3B7N	.821	.539					
Conduct	D3B8N	.925	.517					
Suspend/Expel	D3B9N	.795						
Performance	D3B10N	.723						
Assess Stay	D3B11N	.796						
Structured Activity	D4B1N			.990				
Type of Structured Activity	D4B2N			.974				
Unstructured Activity	D4B3N							
Understand Job Maintain	D5B1N				.872			
Current Interest	D5B2N				.762			
Employment Status	D5B3N							
Positive Adult	D6B1N				.484			
Community Ties	D6B2N				.446			
Friends/Companions	D6B3N					.669		
Romantic Relationship	D6B4N							
Admires/Emulates	D6B5N					.848		
Resistance to Anti-social	D6B6N					.826		
Frustration Tolerance	D11A1N						.717	
Hostile Perception	D11A2N						.523	
Belief in Yelling	D11A3N						.901	
Belief in Fighting	D11A4N						.871	
Violent Events Reported	D11A5N						.730	
Control Sexual Aggression	D11A6N							
Consequential Thinking	D12A1N							.809
Goal Setting	D12A2N							.533
Problem Solving	D12A3N							.945
Situational Perception	D12A4N							.904
Dealing with Others	D12A5N							.888
Difficult Situations	D12A6N							.899
Dealing with Emotions	D12A7N							.884
Internal Triggers	D12A8N							1.049
External Triggers	D12A9N							1.022
Control Impulses	D12A10N							.553
Control Aggression	D12A11N							

A seven-factor solution was retained for Groups 1 and 5. Divergent and convergent validity is evident for many of the items; however, several items lack validity (see Table 5). These items include: 'Unstructured Activity'; 'Employment Status'; 'Romantic Relationship'; 'Control Sexual Aggression'; and 'Control Aggression'. These items' within domain loadings are weak and negligible.

Table 6 EFA on Group 2 (D7) + Group 3 (D8)

Item	Var Name	F1	F2	F3	F4	F5	F6	<b>F</b> 7	F8	F9
Annual Income	D7B1N	.252								
Risk 'Living With' Relationship	D7B2N	.335						.491		
Family Jail/Prison	D7B3N		.738							
Parent Problem	D7B4N		.745							
Sibling Problem	D7B5N		.419							
.Support Network	D7B6N	.623								
Willing to Support	D7B7N	.526								
Opportunities for Family Activities	D7B8N	.739								
Run away/kicked out	D7B9N				.485					
Family Member Relationships	D7B10N	.444			.341					
Level of Family Conflict	D7B11N		.366		.693					
Parental Supervision	D7B12N			.721						
Parental Authority	D7B13			.393	.392					
Consistent Punishment	D7B14N			.794						
Consistent Rewards	D7B15N			.650						
Parental Characterization Youth's Behavior	D7B16N			.559						
Marijuana Use	D8B3_1					1.071				
Meth use	D8B3 2					626			498	

Cocaine/Crack Use	D8B3 3	.612		.510
Heroin/Opiate Use	D8B3 4	.575		.420
Other Drug Use	D8B3_5	.552		.321
Alcohol Disrupts Ed	D8B1_2		.955	
Alcohol Family Conflict	D8B1_3		.968	
Alcohol Interferes Pro-Social Friends	D8B1_4		.973	
Alcohol Use Health Problems	D8B1_5		.860	.396
Alcohol Contributes Criminal Behavior	D8B1_6		.985	
Alcohol Tolerance	D8B1_7		.610 .636	
Alcohol Withdrawal	D8B1_8		.551 .562	
Drug Disrupts Ed	D8B2_2	.631	.444	
Drug Family Conflict	D8B2_3	.620	.419	
Drug Interferes Pro-Social Friends	D8B2_4	.567	.472	
Drug Use Health Problems	D8B2_5	.357	.512	
Drug Contributes Criminal Behavior	D8B2_6	.630	.403	.457
Drug Tolerance	D8B2_7	.493	.721	
Drug Withdrawal	D8B2_8	.543	.617	
Treatment	D8B4	.678		

For Groups 2 and 3, a nine-factor solution was retained. As shown in Table 6, there is a clear factorial pattern, and only one item (the risk 'Living With' Relationship from domain 7) cross-loaded onto a factor in domain 8. Otherwise, the convergent and divergent validity of most of the items is supported.

Table 7 EFA on Group 2 (D7) + Group 4 (D9 D10)

Item	Var Name	F1	F2	F3	F4	F5	F6
Annual Income	D7B1N						
Risk 'Living With' Relationship	D7B2N	.501					
Family Jail/Prison	D7B3N		.756				
Parent Problem	D7B4N		.747				
Sibling Problem	D7B5N		.426				
.Support Network	D7B6N	.563			.358		
Willing to Support	D7B7N	.863					
Opportunities for Family Activities	D7B8N	.770			.364		
Run away/kicked out	D7B9N			.399			
Family Member Relationships	D7B10N						
Level of Family Conflict	D7B11N			.693			
Parental Supervision	D7B12N	.843					
Parental Authority	D7B13	.628					
Consistent Punishment	D7B14N	.661					
Consistent Rewards	D7B15N	.807					
Parental Characterization Youth's Behavior	D7B16N	.382					
Suicide Ideation	D9B1_8N					.612	
ADD/ADHD	D9B2N					.738	
Treatment	D9B3N					.918	

Medication	D9B4N	.908
MH Issue Interfere Working with Youth	D9B5N	.832
Primary Criminal Emotion	D10A1N	.360
Primary Criminal Purpose	D10A2N	
Optimism	D10A3N	.696
Impulsive	D10A4N	.660
Belief in Control Actions	D10A5N	.759
Empathy	D10A6N	.806
Respect Property	D10A7N	.786
Respect Authority	D10A8N	.852
Pro-Social Conventions	D10A9N	.768
Accepts Responsibility	D10A10N	.503
Belief in Success	D10A11N	.760

A six-factor solution was obtained for Groups 2 and 4. Most of the items demonstrated divergent validity among domains 7, 9 and 10. There are a few items whose convergent validity was not supported by the EFA results, as they did not load onto any of the factors within their domains. These items are 'Annual Income', 'Family Member Relationships' and 'Primary Criminal Purpose'. The convergent and divergent validity for these items needs to be tested further.

Table 8 EFA on Group 12 (D7) + Group 5 (D11 D12)

Item	Var Name	F1	F2	F3	F4	F5	F6	<b>F</b> 7
Annual Income	D7B1N	.332						
Risk 'Living With' Relationship	D7B2N	.388						
Family Jail/Prison	D7B3N		.751					
Parent Problem	D7B4N		.731					
Sibling Problem	D7B5N		.411					
.Support Network	D7B6N	.639						
Willing to Support	D7B7N	.611			.388			
Opportunities for Family Activities	D7B8N	.774						
Run away/kicked out	D7B9N			.371				
Family Member Relationships	D7B10N	.456						
Level of Family Conflict	D7B11N			.411		.467		
Parental Supervision	D7B12N	.304			.696			
Parental Authority	D7B13				.404	.326		
Consistent Punishment	D7B14N				.750			
Consistent Rewards	D7B15N	.338			.566			
Parental Characterization Youth's Behavior	D7B16N				.485			
Frustration Tolerance	D11A1N					.669		
Hostile Perception	D11A2N					.515		
Belief in Yelling	D11A3N					.923		
Belief in Fighting	D11A4N					.929		
Violent Events Reported	D11A5N					.715		

Control Sexual Aggression	D11A6N	
Consequential Thinking	D12A1N	.772
Goal Setting	D12A2N	.631
Problem Solving	D12A3N	.887
Situational Perception	D12A4N	.928
Dealing with Others	D12A5N	.956
Difficult Situations	D12A6N	.940
Dealing with Emotions	D12A7N	.899
Internal Triggers	D12A8N	.740 .507
External Triggers	D12A9N	.739 .466
Control Impulses	D12A10N	.574
Control Aggression	D12A11N	.553

A seven-factor solution for Groups 2 and 5 was retained. Similar to the above results, the convergent and divergent validity of most items was supported (see Table 8). However, 'Level of Family Conflict' and 'Parental Authority' from domain 7 cross-loaded onto the factor in domain 11 while loading on two factors in their own domain. The item for 'Control Aggression' from domain 12 loaded onto domain 11 instead of domain 12. This evidence may suggest the relocation of 'Control Aggression' from domain 12 to domain 11.

Table 9 EFA on Group 3 (D8) + Group 4 (D9 D10)

Item	Var Name	F1	F2	F3	F4	F5	F6
Marijuana Use	D8B3_1	.991					
Meth use	D8B3_2	.856					
Cocaine/Crack Use	D8B3_3	.911					
Heroin/Opiate Use	D8B3_4	.836					
Other Drug Use	D8B3_5	.718					
Alcohol Disrupts Ed	D8B1_2		.954				
Alcohol Family Conflict	D8B1_3		.974				
Alcohol Interferes Pro-Social Friends	D8B1_4		.973				
Alcohol Use Health Problems	D8B1_5		.885		.350		
Alcohol Contributes Criminal Behavior	D8B1_6		.979				
Alcohol Tolerance	D8B1_7		.601	.630			
Alcohol Withdrawal	D8B1_8		.486	.622			
Drug Disrupts Ed	D8B2_2	.467	.550				
Drug Family Conflict	D8B2_3	.481	.541				
Drug Interferes Pro-Social Friends	D8B2_4	.430	.556				
Drug Use Health Problems	D8B2_5		.626		.356		
Drug Contributes Criminal Behavior	D8B2_6	.499	.499				
Drug Tolerance	D8B2_7	.457		.668			
Drug Withdrawal	D8B2_8	.397		.759			
Treatment	D8B4	.759					
Suicide Ideation	D9B1_8N					.654	
ADD/ADHD	D9B2N					.737	

Treatment	D9B3N	.925	
Medication	D9B4N	.913	
MH Issue Interfere Working with Youth	D9B5N	.782	
Primary Criminal Emotion	D10A1N		.316
Primary Criminal Purpose	D10A2N		.598
Optimism	D10A3N		.624
Impulsive	D10A4N		.657
Belief in Control Actions	D10A5N	.437	.676
Empathy	D10A6N		.790
Respect Property	D10A7N		.706
Respect Authority	D10A8N		.783
Pro-Social Conventions	D10A9N		.495
Accepts Responsibility	D10A10N		.726
Belief in Success	D10A11N	.472	.676

For Groups 3 and 4, a six-factor solution was retained. As presented in Table 9, most of the items from domains 8, 9 and 10 demonstrated convergent and divergent validity at the item level. There are four items, including 'Alcohol Use Health Problems', 'Drug Use Health Problems', 'Belief in Control Actions' and 'Belief in Success', that loaded onto their own proposed domains *and* converged on a new factor (F4). However, their cross-loadings were weak (.350, 356, .437 and .472) compared to their own factor loadings (.885, .626, .676 and .676). Given the strong loading and relatively weak cross-loading, this evidence may only suggest correlated residuals among these items.

Table 10 EFA on Group 3 (D8) + Group 5 (D11 D12)

Item	Var Name	F1	F2	F3	F4	F5	F6	F7
Marijuana Use	D8B3_1	1.032						
Meth use	D8B3_2	.737						
Cocaine/Crack Use	D8B3_3	.699						.343
Heroin/Opiate Use	D8B3_4	.721						
Other Drug Use	D8B3_5	.600						
Alcohol Disrupts Ed	D8B1_2		.905					
Alcohol Family Conflict	D8B1_3		.917					
Alcohol Interferes Pro-Social Friends	D8B1_4		.894					
Alcohol Use Health Problems	D8B1_5		.897		.473			
Alcohol Contributes Criminal Behavior	D8B1_6		.888					
Alcohol Tolerance	D8B1_7		.628	.632				
Alcohol Withdrawal	D8B1_8		.628	.613				
Drug Disrupts Ed	D8B2_2	.635	.379					
Drug Family Conflict	D8B2_3	.626	.381					
Drug Interferes Pro-Social Friends	D8B2_4	.582	.391					
Drug Use Health Problems	D8B2_5	.388	.422		.427			
Drug Contributes Criminal Behavior	D8B2_6	.642	.309					
Drug Tolerance	$D8B2\_7$	.557		.666				
Drug Withdrawal	D8B2_8	.561		.751				
Treatment	D8B4	.737						
Frustration Tolerance	D11A1N					.659		

Hostile Perception	D11A2N	.52	22	
Belief in Yelling	D11A3N	.88	80	
Belief in Fighting	D11A4N	.86	52	
Violent Events Reported	D11A5N	.62	25	
Control Sexual Aggression	D11A6N		-	
Consequential Thinking	D12A1N		.735	
Goal Setting	D12A2N		.623	
Problem Solving	D12A3N		.883	
Situational Perception	D12A4N		.894	
Dealing with Others	D12A5N		.881	
Difficult Situations	D12A6N	.386	.893	
Dealing with Emotions	D12A7N	.365	.863	
Internal Triggers	D12A8N		.902	.465
External Triggers	D12A9N		.887	.405
Control Impulses	D12A10N		.585	
Control Aggression	D12A11N	.53	38	

A seven-factor solution was retained for Groups 3 and 5. As presented in Table 10, most of the items loaded onto factors within their own domains, demonstrating convergent and divergent validity at the item level. Yet, 'Heroin/Opiate Use' and 'Internal Triggers' and 'External Triggers' cross-loaded onto a new factor (F7) while also loading onto factors within their own domains. The cross-loadings are relatively weak (.343, .465 and .405) compared to their loadings (.699, .902 and .887). In a similar vein, 'Alcohol Use Health Problems' and 'Drug Use Health Problems' from domain 8 and 'Difficult Situations' and 'Dealing with Emotions' from domain 12 cross-loaded on a new factor while loaded onto the factors within their own domains. These cross-loadings (.473, .427, .386 and .365) are, again, relatively weak compared to their loadings (.897, .422, .893 and .863). Therefore, with weak cross-loadings, exacting a new factor may be meaningless.

Table 11 EFA on Group 4 (D9 D10) + Group 5 (D11 D12)

Item	Var Name	F1	F2	F3	F4	F5
Suicide Ideation	D9B1_8N	.664				
ADD/ADHD	D9B2N	.740				
Treatment	D9B3N	.939				
Medication	D9B4N	.932				
MH Issue Interfere Working with Youth	D9B5N	.797				
Primary Criminal Emotion	D10A1N		.414			
Primary Criminal Purpose	D10A2N					
Optimism	D10A3N		.726			
Impulsive	D10A4N		.384			
Belief in Control Actions	D10A5N		.591			
Empathy	D10A6N		.812			
Respect Property	D10A7N		.664			
Respect Authority	D10A8N		.678			
Pro-Social Conventions	D10A9N		.761			
Accepts Responsibility	D10A10N		.464			
Belief in Success	D10A11N		.700			
Frustration Tolerance	D11A1N			.549		
Hostile Perception	D11A2N		.569	.323		
Belief in Yelling	D11A3N			.830		
Belief in Fighting	D11A4N			.860		
Violent Events Reported	D11A5N			.622		
Control Sexual Aggression	D11A6N					

Consequential Thinking	D12A1N		.801	
Goal Setting	D12A2N	.473	.522	
Problem Solving	D12A3N		.928	
Situational Perception	D12A4N		.924	
Dealing with Others	D12A5N		.922	
Difficult Situations	D12A6N		.919	
Dealing with Emotions	D12A7N		.890	
Internal Triggers	D12A8N		.924	.398
External Triggers	D12A9N		.909	.372
Control Impulses	D12A10N		.606	
Control Aggression	D12A11N	.52	)	

As shown in Table 1, the EFA results suggested a five-factor solution for Groups 4 and 5. However, the 'Primary Criminal Purpose' and 'Control Sexual Aggression' items did not load onto any of the factors across the four domains. The item 'Hostile Perception' from domain 11 cross-loaded onto factor F2 in domain 10. Because its cross-loadings (.569) is stronger than its loading (.323), this item will be relocated to domain 10, where its dimensionality will be further examined via a MGCFA analysis. The findings also suggested that 'Control Aggression' be relocated from domain 12 to domain 11. Yet, this item also cross-loaded on factor F2 in domain 10 while loading onto factor F4 in domain 12. This evidence suggests retaining this item within domain 12 because of its relatively weak loading (.473) and relatively strong loading (.522). Now that convergent and divergent validity have been examined, we move next to the internal latent structure.

#### Internal latent Structure

After examining the evidence of the convergent/divergent validity at the item level, and relocating items based on the suggested factorial pattern, further EFA analyses were conducted within domains to inform the dimensionality of each independent domain. Then, MGCFA with omnibus measurement invariance and higher order modeling tests were conducted to confirm the internal latent structure for each domain.

# School - Domain 3

As shown in Tables 12.0 and 12.1, the EFA results suggested a one factor model. However, the MGCFA based on the one factor solution resulted in a poor model fit. Four correlated residuals were added to address localized ill fit. Therefore, the one factor solution was not retained, and a four-factor model was, as the model fit indices statistics were much improved for the latter model (see Model A1 in Table 12.2). According to the suggested four-factor pattern in Table 12.1, the school scale passed all measurement invariance tests from Model A1 to Model A7. A second order factor, *School*, was exacted and is considered a gender-invariant, second order, parallel scale at all levels. Again, this scale consists of four sub-scales/factors. The visual representation of the final scale is presented in Figure 1, and item descriptions are presented in Table 12.3.

Table 12.0 EFA on Domain 3 - School

Model	df	CFI	TLI	RMSEA [90% C.I.]	SRMR	Eigenvalues
1 Factor*	35	.975	.967	.149 [.147150]	.062	6.669
2 Factors	26	.991	.984	.104 [.102105]	.033	.917
3 Factors	18	.995	.987	.094 [.092096]	.026	.591
4 Factors	11	.999	.997	.046 [.044049]	.011	.512
5 Factors	5	1.000	1.000	.033 [.032033]	.123	.338
6 Factors	0	N/A	N/A	N/A	N/A	.290

<sup>\*1</sup> Factor solution is not retained due to poor RMSEA value in CFA and, multiple (n=4) correlated residuals have to be added in order to address localized ill fit issue.

Item	Var Name	F1	F2	F3	F4
Enrollment	D3B1AN	.824			
Involvement	D3B6N	.481	.394		
Attendance	D3B9N	.547			
Value in Ed	D3B3A1		.771		
Encourage	D3B4N		.772		
Staff Comfort	D3B5N		.828		
Conduct	<i>D3B7N</i>			.779	
Suspend/Expel	D3B8N			.856	
Performance	D3B10N				.874
Assess Stay	D3B11N		.463		.453

Table 12.2 Omnibus Measurement Invariance and Structural Tests – School

Model	Test of Structure/Invariance	df	CFI	TLI	RMSEA	$\Delta df$	Δ CFI	ΔTLI	Pass?
					[90% C.I.]				
A1	MGCFA - Configural Model	58	.995	.992	.075 [.073076]				
A2	MGCFA - Weak Invariant Model	68	.997	.995	.056 [.056057]	10	+.002	+.003	Yes
A3	MGCFA - Strong Invariant Model	86	.996	.996	.053 [.052054]	18	.001	+.001	Yes
<b>A</b> 4	Second Order Model	93	.994	.995	.061 [.059062]	7	.002	.001	Yes
<b>A</b> 5	First Order within Factor Item Invariance Model	99	.988	.989	.085 [.084086]	6	.006	.006	Yes
<b>A</b> 6	First Order Factor loading Invariance Model	106	.986	.988	.089 [.088090]	7	.002	.001	Yes
<b>A</b> 7	One Group CFA Model	31	.995	.992	.072 [.070073]				

Table 12.3 School (Model A6)

Factor I	Loading	Item	Loading	Item Description	Var
Male	Female	Male	Female		Name
T. 1	T 1	.899	.848	Youth's current school enrollment status, regardless of attendance (A1)	D3B1AN
Involvement	Involvement	.828	.848	Youth's involvement in school activities during most recent term (N)	D3B6N
(.927)	(.927)	.783 .848		Youth's attendance in the most recent term (N)	D3B9N
		.957	.932	Youth believes there is value in getting an education (A1):	D3B3A1
Belief	Belief	.948	.932	Youth believes school provides an encouraging environment for him or her (A1)	D3B4N
(.927)	(.927)				
		.667	.932	Teachers, staff, or coaches the youth likes or feels comfortable talking with (N)	D3B5N
Student Conduct	Student Conduct	.771	.844	Youth conduct in the most recent term (N)	D3B7N
(.927)	(.927)	.854	.844	Number of expulsions and suspensions in the most recent term (N)	D3B8N
Academic	Academic	.810	.880	Youth's academic performance in the most recent term (N)	D3B10N
Performance	Performance			•	
(.927)	(.927)	.945	.880	Interviewer's assessment of likelihood the youth will stay in and graduate from high school or an equivalent vocational school (N)	D3B11N

Model A6 RMSEA = .089 [.088 - .090]]; CFI = .986; TLI = .988; df = 106 **School** .927 .927 .927 Academic Student Involvement **Belief Performance** Conduct 1. Enrollment 1. Value in Ed 1. Conduct 1. Performance 2. Involvement 2. Encourage 2. Suspend/Expel 2. Assess Stay 3. Attendance 3. Staff Comfort

Figure 1. Criminogenic Needs - School

# Association - Domain 4, 5, and 6

As shown in Table 13.0, a four-factor solution was retained. Tables 13.1 and 13.2 present findings from the structural and measurement tests. The items 'Unstructured Activity', 'Employment Status' and 'Romantic Relationship' were removed from the final the model because they were weakly associated with other items in this scale. The second order model passed all invariance tests and second order modeling tests. Therefore, a second order, gender-invariant, parallel scale at all levels was exacted. This scale was termed *Association*. The visual representation of the final scale is presented in Figure 2, and item descriptions are presented in Table 13.3.

Table 13.0 EFA on Domain 4, 5, 6 - Use of Time, Employment & Relationship

Model	df	CFI	TLI	RMSEA [90% C.I.]	SRMR	Eigenvalues
1 Factor*	27	.982	.977	.225 [.224226]	.206	3.743
2 Factors	19	.992	.985	.180 [.178182]	.119	1.651
3 Factors	12	.997	.991	.138 [.136141]	.070	1.405
4 Factors	6	1.000	1.000	.015 [.012018]	.005	.845
5 Factors	1	1.000	1.000	.010 [.003019]	.001	.504

Table 13.1 EFA on Use of Time, Employment & Relationship

Item	Var Name	F1	F2	F3	F4
Structured Activity	D4B1N	.986			
Type of Structured Activity	D4B2N	.967			
Unstructured Activity	D5B1N		.339		
Understand Job Maintain	D5B2N		2.004		
Employment Status	D6B1N			.710	
Positive Adult	D6B2N			.891	
Community Ties	D6B3N				.607
Friends/Companions	D6B5N				.895
Admires/Emulates	D6B6N				.840

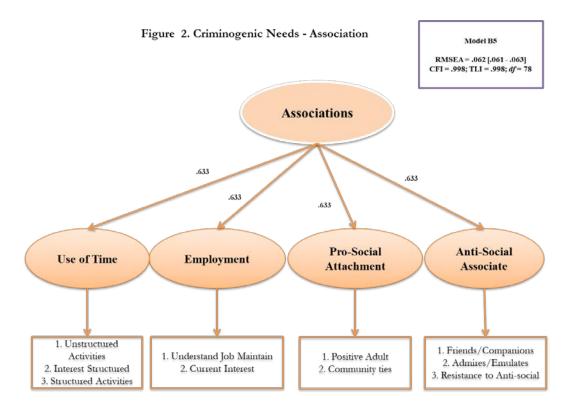
Table 13.2 Omnibus Measurement Invariance and Structural Tests – Use of Time, Employment & Relationship

Model	Test of Structure/Invariance	df	CFI	TLI	RMSEA	$\Delta df$	Δ CFI	ΔTLI	Pass?
					[90% C.I.]				
B1*	MGCFA - Configural Model	42	1.000	1.000	.028 [.026029]				
B2	MGCFA - Weak Invariant Model	51	1.000	1.000	.025 [.024027]	9	.000	.000	Yes
В3	MGCFA - Strong Invariant Model	59	1.000	1.000	.028 [.026029]	8	.000	.000	Yes
B4	First Order within Factor Item Invariance Model	64	.999	.999	.041 [.039042]	5	.001	.001	Yes
В5	Second Order Tau Model	78	.998	.998	.062 [.061063]	14	.001	.001	Yes
В6	One Group CFA Final Model	23	1.000	.999	.039 [.037040]				

<sup>\*</sup> D5B3N was not retained in the final model because its weak correlation with other factors and item; D6B4N was not retained in the model because of its weak loading

Table 13.3 Use of Time, Employment & Relationship (Model B5)

Factor I	oading	Item	Loading	Item Description	Var
Male	Female	Male	Female	- Helli Description	Name
Use of Time	Use of Time	.998	.983	Current interest and involvement in structured recreational activities	D4B1N
(.633)	(.633)	.970	.983	Types of structured recreational activities in which youth currently participates (N)	D4B2N
Employment	Employment	.782	.752	Understanding of what is required to maintain a job	D5B1N
(.633)	(.633)	.711	.752	Current interest in employment	D5B2N
Pro-Social	Pro-Social	.760	.846	Current positive adult non-family relationships not connected to school or employment	D6B1N
Attachment	Attachment	.956	.846	Current pro-social Community Ties	D6B2N
(.633)	(.633)				
Anti-Social	Anti-Social	.676	.814	Current friends/ companions youth actually spends time with	D6B3N
Associate	Associate	.898	.814	Currently admires/ emulates anti-social peers	D6B5N
(.633)	(.633)	.823	.814	Current resistance to anti-social peer influence	D6B6N



## Family - Domain 7

As presented in Table 14.0, a five-factor solution was retained. As indicated in Table 14.1, the factorial pattern is clear for most items. Three items, including Willing to Support', 'Family Member Relationships' and 'Parental Authority' cross-loaded on other factors. As the differences in the strength of the loadings and cross-loadings are not substantial (.503 vs .402; .384 vs .359; .511 vs .421), the items were retained in their proposed domains. Based on the strength of the correlational relationship among the five factors, a third order factor, called Family Support & Conflict, was exacted. The Family Member Problem factor was not considered a part of the third order factor model, as it shared little common variance with other factors with an r of .308 for the female sample and an r of .354 for the male sample. Additionally, this factor was not retained because the items are considered historical rather than dynamic. As displayed in Table 14.2, the Family Support & Conflict passed all the invariance and higher order modeling tests and is considered a gender-invariant, third order factor. The visual representation of the final scale is presented in Figure 3, and item descriptions are displayed in Table 14.3.

Table 14.0 EFA on Domain 7- Family

Model	df	CFI	TLI	RMSEA [90% C.I.]	SRMR	Eigenvalues
1 Factor	104	.885	.868	.104 [.103105]	.093	5.192
2 Factors	89	.926	.900	.091 [.090091]	.066	1.874
3 Factors	75	.970	.952	.063 [.062064]	.039	1.550
4 Factors*	62	.987	.974	.046 [.045047]	.025	1.135
5 Factors	50	.995	.988	.031 [.030032]	.017	.878
6 Factors	N/A	N/A	N/A	N/A	N/A	.801

<sup>\*4-</sup>Factor Solution was not retained because the factor loadings are weak in CFA models

Table 14.1 EFA on Family

Item	Var Name	F1	F2	F3	F4	F5
Annual Income	D7B1N	.520				
Risk 'Living With' Relationship	D7B2N	.439				
Family Jail/Prison	D7B3N		.776			
Parent Problem	D7B4N		.729			
Sibling Problem	D7B5N		.422			
.Support Network	D7B6N			.665		
Willing to Support	<i>D7B7N</i>			.503		.420
Opportunities for Family Activities	D7B8N			.789		
Run away/kicked out	<i>D7B9N</i>				.593	
Family Member Relationships	D7B10N			.384	.359	
Level of Family Conflict	D7B11N				.610	
Parental Supervision	D7B12N					.784
Parental Authority	D7B13				.511	.421
Consistent Punishment	D7B14N					.851
Consistent Rewards	D7B15N					.640
Parental Characterization Youth's Behavior	D7B16N					.566

Table 14.2 Omnibus Measurement Invariance and Structural Tests – Family (Model C10)

Model	Test of Structure/Invariance	df	CFI	TLI	RMSEA	$\Delta df$	Δ CFI	ΔTLI	Pass?
					[90% C.I.]				
C1*	MGCFA - Configural Model	188	.944	.929	.076 [.075077]				
C2	MGCFA - Weak Invariant Model	235	.946	.945	.067 [.066068]	47	+.002	+.016	Yes
C3	MGCFA - Strong Invariant Model	230	.954	.952	.063 [.062063]	5	+.008	+.007	Yes
C4	First Order within Factor Item Invariance Model – F1	231	.945	.943	.068 [.067069]	1	.009	.009	Yes
C5	First Order within Factor Item Invariance Model – F2	233	.943	.939	.070 [.070071]	2	.002	.004	Yes
<b>C</b> 6	First Order within Factor Item Invariance Model – F3	235	.940	.946	.066 [.065067]	2	.003	+.007	Yes
<b>C</b> 7	First Order within Factor Item Invariance Model – F4	237	.941	.940	.070 [.069071]	2	+.001	.006	Yes
C8	First Order within Factor Item Invariance Model – F5	241	.931	.932	.074 [.074075]	4	.010	.008	Yes
C9	Second Order Tau Model (F3 + F5)	258	.923	.928	.076 [.076077]	17	.008	.004	Yes
C10	Third Order Tau Model F1 + F4 + (F3 + F5)	260	.928	.934	.073 [.073074]	2	+.005	+.006	Yes
C11	Final One Group CFA Model	101	.935	.923	.079 [.079080]				

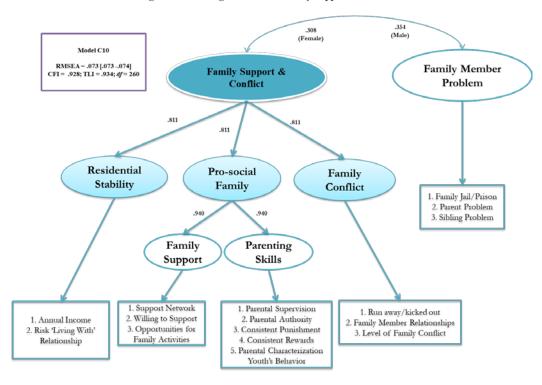
<sup>\*</sup> D7B13 was retained in F5 because the CFA confirmed that it has strong relationship with other item from F5 instead of F3.

Table 14.3 Family (Model C10)

Second Order	Factor Loading	First Order Fa	actor Loading	Item	Loading	Item Description	Var
Male	Female	Male	Female	Male	Female		Name
Residential Stability	Residential Stability	Residential Stability	Residential Stability	.310	.373	Living	D7B1N
(.811)	(.811) (.811) ()		()	.449	.373	Annual combined income of youth and family	D7B2N
				.689	.582	Computed Binary - Family currently in jail	
Family	Family	Family	Family			1 , , , , , ,	
Member	Member	Member	Member	.744	.582	Computed – Parent Problem N	<i>D7B4</i> N
Problem	Problem Problem Problem		Problem	.575	.582	Computed Item – Sib Problem N	D7B5N

()	()	()	()				
Pro-social	Pro-social	Family	Family	.692	.816	Support network for family	D7B6N
Family	Fio-social Family	Support	Support	.895	.816	Family willingness to help support of youth	<i>D7B7N</i>
(.811)	(.811)	(.940)	(.940)	.795	.816	Family provides opportunities for youth to participate in family activities and decisions	D7B8N
				450	121	V 11	Danasi
Family	Family	Family	Family	.450	.431	Youth has run away or been kicked out of home	D7B9N
Conflict	Conflict	Conflict	Conflict	.465	.431	Computed Item - CxFamily_RelationshipN	D7B10N
(.811)	(.811)	()	()	.523	.431	Level of conflict between parents, between youth and parents, among siblings	D7B11N
				.853	.742	Parental supervision	D7B12N
				.669	.742	Parental authority and control	D7B13
Pro-social Family	Pto-social Family	Parenting Skills	Parenting Skills	.703	.742	Consistent appropriate punishment for bad behavior	D7B14N
(.811)	(.811)	(.940)	(.940)	.817	.742	Consistent appropriate rewards for good behavior	D7B15N
				.531	.742	Parental characterization of youth's anti-social behavior	D7B16N

Figure 3. Criminogenic Needs - Family Support & Conflict



As shown in Table 15.0, a four-factor solution offered the best fit. Moreover, Table 15.1 suggests a 3-factor model with an additional bi-factor (*Alcohol Only*). Following an MGCFA, a second order factor (*Alcohol & Drug Needs*) was exacted by using the three factors. The bi-factor *Alcohol Only* was not retained in the second order factor model, given it shares little common variance with Alcohol & Drug Needs with an r of -.312 for the female and an r of -.346 for the male sample. Consequently, *Alcohol & Drug Needs* was considered as a second order, gender-invariant, parallel scale. The visual representation of the final scale is presented in Figure 4 (the identified bi-factor is not presented in the figure), and item descriptions are presented in Table 15.3.

Table 15.0 EFA on Domain 8 - Alcohol and Drugs

						-
Model	df	CFI	TLI	RMSEA [90% C.I.]	SRMR	Eigenvalues
1 Factor	170	.950	.944	.077 [.076077]	.149	11.711
2 Factors	151	.973	.966	.060 [.060061]	.121	2.086
3 Factors	133	.982	.975	.052 [.051052]	.069	1.795
4 Factors	116	.987	.979	.047 [.046048]	.053	1.132
5 Factors	100	.990	.981	.045 [.044046]	.045	.827

Table 15.1 EFA on Alcohol and Drugs

Item	Var Name	F1	F2	F3	F4
Marijuana Use	D8B4	.952			
Meth use	D8B3_1	1.111			
Cocaine/Crack Use	D8B3_2		.707		
Heroin/Opiate Use	D8B3_3		.700		
Other Drug Use	D8B3_4		.770		
Alcohol Disrupts Ed	D8B3 5		.527		
Alcohol Family Conflict	$D8B1\_2$	.596		.532	
Alcohol Interferes Pro-Social Friends	D8B1_3	.615		.531	
Alcohol Use Health Problems	D8B1_4	.681		.469	
Alcohol Contributes Criminal Behavior	D8B1_5		.488	.776	
Alcohol Tolerance	D8B1_6	.553		.530	
Alcohol Withdrawal	D8B1_7			.441	.705
Drug Disrupts Ed	D8B1 8			.527	.693
Drug Family Conflict	D8B2 2	.679			
Drug Interferes Pro-Social Friends	D8B2_3	.700			
Drug Use Health Problems	D8B2 4	.755			
Drug Contributes Criminal Behavior	D8B2 5		.617	.348	
Drug Tolerance	D8B2_6	.626			
Drug Withdrawal	D8B2_7		.328		.784
Treatment	D8B2_8				.903

Table 15.2 Omnibus Measurement Invariance and Structural Tests - Alcohol and Drugs

Model	Test of Structure/Invariance	df	CFI	TLI	RMSEA	Δ df	Δ CFI	ΔTLI	Pass?
					[90% C.I.]				
D1	MGCFA - Configural Model	314	.983	.979	.046 [.046047]				
<b>D</b> 2	MGCFA - Weak Invariant Model	341	.987	.985	.039 [.039040]	27	+.004	+.006	Yes
D3*	MGCFA - Strong Invariant Model	339	.984	.982	.043 [.043044]	25	+.001	+.003	Yes
D4	Second Order Model - Tau	351	.984	.983	.042 [.041043]	12	.000	+.001	Yes

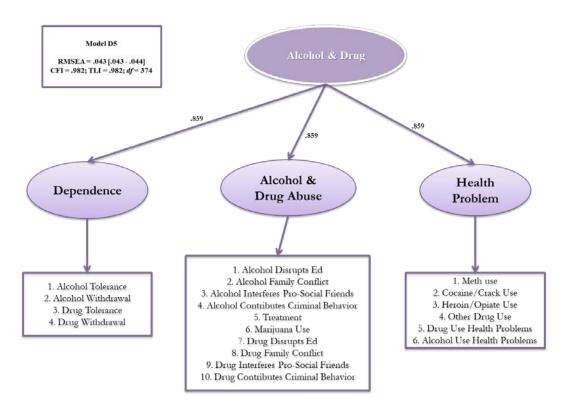
D5	First Order within Factor Item Invariance Model	374	.982	.982	.043 [.043044]	23	.002	.001	Yes
D6	Final One Group CFA Model	161	.983	.980	.046 [.045046]				

<sup>\*</sup>Model A1 instead of A2 was used for model comparison because Model A3 (a bi-factor model) has less df than its weak group invariance model; the model was compared with A1 to determine the level of model detrimental fit.

Table 15.3 Alcohol and Drugs (Model D5)

Factor		Item		Itana Danasiasian	Bi-	Var	
Loa	ding	Lo	ading	Item Description	Item Loading		Name
Male	Female	Male	Female	male		Female	
		.845	.900	Alcohol/drug treatment program participation			D8B4
		.991	.900	Marijuana			D8B3_1
		.927	.900	Alcohol disrupts education	.604	.587	D8B1_2
Alcohol &	Alcohol &	.927	.900	Alcohol causes family conflict	.604	.587	D8B1_3
Drug	Drug	.915	.900	Alcohol interferes with pro-social friendships	.596	.587	D8B1_4
Abuse	Abuse	.824	.900	Alcohol contributes criminal behavior	.537	.587	D8B1_6
(.859)	(.859)	.919	.900	Drug disrupts education			D8B2_2
		.922	.900	Drug causes family conflict			D8B2_3
		.901	.900	Drug interferes with pro-social friendships			D8B2_4
		.842	.900	Drug contributes criminal behavior			D8B2_6
		.811	.815	Amphetamines			D8B3_2
		.743	.815	Cocaine			D8B3_3
Health	Health	.773	.815	Heroin			D8B3_4
Problem (.859)	Problem (.859)	.782	.815	Other drugs			D8B3_5
		.976	.815	Alcohol causes health problems	.702	.587	D8B1_5
		.919	.815	Drug causes health problems			D8B2_5
		.984	.941	Needs increasing amounts - Alcohol	.613	.587	D8B1_7
Dependence	Dependence	.960	.941	Experiences withdrawal problems - Alcohol	.598	.587	D8B1_8
(.859)	(.859)	.921	.941	Needs increasing amounts			D8B2_7
		.926	.941	Experiences withdrawal problems			D8B2_8

Figure 4. Criminogenic Needs - Alcohol & Drug



## Mental Health - Domain 9

The EFA and factorial pattern results for the mental health domain are presented in Tables 16.0 and 16.1, respectively. The findings suggest a one-factor solution. As shown in Table 16.2, the MGCFA analyses with measurement invariance and structural tests confirmed the factor of *Mental Health* as a group invariant scale. However, one item, 'Suicide Ideation', failed the parallel test. The visual representation of the final scale is presented in Figure 5, and item descriptions are presented in Table 16.3.

Table 16.0 EFA on Domain 9 - Mental Health

Model	df	CFI	TLI	RMSEA [90% C.I.]	SRMR	Eigenvalues
1 Factor	5	.998	.995	.042 [.038045]	.034	3.595
2 Factors	1	1.000	.996	.039 [.031047]	.010	.621
3 Factors	N/A	N/A	N/A	N/A	N/A	.283

Table 16.1 EFA on Mental Health

Item	Var Name	F1
Suicide Ideation	D9B1_8N	.674
ADD/ADHD	D9B2N	.731
Treatment	D9B3N	.935
Medication	D9B4N	.916
MH Issue Interfere Working with Youth	<i>D9B5N</i>	.782

Table 16.2 Omnibus Measurement Invariance and Structural Tests – Mental Health

Model	Test of Structure/Invariance		CFI	TLI	RMSEA	$\Delta df$	Δ CFI	ΔTLI	Pass?
					[90% C.I.]				
E1	MGCFA - Configural Model	10	.998	.996	.038 [.034041]				
E2	MGCFA - Weak Invariant Model	15	.998	.997	.031 [.028034]	5	.000	.001	Yes
E3	MGCFA - Strong Invariant Model	18	.994	.993	.050 [.048053]	3	.004	.004	Yes
<b>E</b> 4	Within Factor Item Invariance Model	22	.982	.981	.078 [.076081]	4	.012	.008	No
E5*	Within Factor Partial Item Invariance Model	21	.991	.991	.057 [.054059]	3	.003	.002	Yes
E6	Final One Group CFA Model	5	.998	.995	.042 [.038045]				

<sup>\*</sup>In Model E5, the constraint of Item D9B1\_8N is turned off, and Model E3 was used for comparison.

Table 16.3 Mental Health (Model E5)

Loading	T. D. 13		
Female	Tem Description	Name	
.613	Current Suicide Ideation	D9B1_8N	
.872	Currently diagnosed with ADD/ADHD:	D9B2N	
.872	Mental health treatment currently prescribed, excluding ADD/ADHD treatment	D9B3N	
.872	Mental health medication currently prescribed excluding ADD/ADHD medication	D9B4N	
.872	Mental health problems currently interfere with working with the youth	D9B5N	
	.613 .872 .872 .872	Female  .613 Current Suicide Ideation  .872 Currently diagnosed with ADD/ADHD:  .872 Mental health treatment currently prescribed, excluding ADD/ADHD treatment  .872 Mental health medication currently prescribed excluding ADD/ADHD medication	

Model E5 Mental Health RMSEA = .057 [.054 - .059](Female Model) CFI = .991; TLI = .991; df = 21.613 .872 .872 MH Issue Interfere Suicide ADD/ADHD Treatment Medication Working with Youth Ideation Mental Health (Male Model) .694 .799 .746 .932 .923 MH Issue Interfere Suicide ADD/ADHD Treatment Medication Working with Youth Ideation

Figure 5. Criminogenic Needs - Mental Health

### Attitude/Behavior - Domain 10

To evaluate the internal latent structure of the Attitude/Behavior domain, EFA tests were conducted with all the items from domain 10 and one item from domain 11 ('Hostile Perception'), as suggested by previous EFA results. As shown in Table 17.0, a two-factor solution model was retained. According to the suggested factorial pattern displayed in Table 17.1, MGCFA with measurement and higher order modeling tests were conducted. The results are presented in Table 17.2. The findings suggest *Attitude/Behavior* is a gender-invariant, second order scale. The scale passed second order parallel tests; however, one item (Hostile Perception) failed the parallel test at the first order level. The visual representation of the final scale is presented in Figure 6, and item descriptions are displayed in Table 17.3.

Table 17.0 EFA on Domain 10 - Attitude/Behavior

Model	df	CFI	TLI	RMSEA [90% C.I.]	SRMR	Eigenvalues
1 Factor	54	.964	.955	.073 [.072074]	.043	5.485

2 Factors	43	.982	.972	.058 [.057059]	.030	1.037
3 Factors	33	.989	.979	.050 [.049052]	.024	.928
4 Factors	24	.994	.983	.045 [.043046]	.018	.837
5 Factors	16	.998	.990	.034 [.032036]	.012	.753

Table 17.1 EFA on Attitude/Behavior

Item	Var Name	F1	F2
Primary Criminal Emotion	D10A1N		.325
Primary Criminal Purpose	D10A2N		
Optimism _	D10A3N	.701	
Împulsive	D10A4N	.516	
Belief in Control Actions	D10A5N	.870	
Empathy	D10A6N	.786	
Respect Property	<i>D10A7N</i>		.670
Respect Authority	D10A8N		.573
Pro-Social Conventions	D10A9N		.970
Accepts Responsibility	D10A10N		.544
Belief in Success	D10A11N		.724
Hostile Perception	D11A2N		.781

Table 17.2 Omnibus Measurement Invariance and Structural Tests - Attitude/Behavior

Model	Test of Structure/Invariance	df	CFI	TLI	RMSEA	$\Delta df$	Δ CFI	ΔTLI	Pass?
					[90% C.I.]				
F1	MGCFA - Configural Model	68	.981	.975	.064 [.063066]				
F2	MGCFA - Weak Invariant Model	78	.990	.988	.044 [.043046]	10	+.009	+.013	Yes
F3	MGCFA - Strong Invariant Model	91	.987	.987	.046 [.045047]	13	.003	.001	Yes
F4	Second Order Tau Model	93	.988	.989	.044 [.042045]	2	+.001	+.002	Yes
F5	First Order Factor Item Invariance	101	.973	.976	.063 [.062064]	8	.015	.013	No
F6*	First Factor Partial Item Invariance	100	.984	.986	.048 [.047049]	7	.004	.003	Yes
<b>F</b> 7	Final One Group CFA	34	.991	.975	.064 [.063066]				

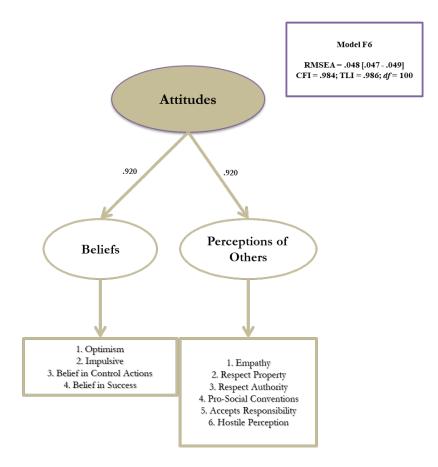
<sup>\*</sup>In Model F6, the constraint of Item D10A9N is turned off.

Table 17.3 Attitude/Behavior (Model F6)

Fa	ctor	Item	Loading		
Loa	ding			Item Description	Var Name
Male	Female	Male	Female	•	
		.729	.743	Optimism N	D10A3N
Beliefs	Beliefs	.727	.743	Impulsive; acts before thinking	D10A4N
(.920)	(.920)	.759	.743	Belief in control over antisocial behavior	D10A5N
		.789	.743	Belief in Success	D10A11N
Perceptions	Perceptions	.730	.757	Empathy, remorse, sympathy, or feelings for the victim(s) of criminal behavior:	D10A6N
of Others	of Others	.688	.757	Respect for property of others	D10A7N

(.920)	(.920)	.838	.757	Respect for authority figures	D10A8N
		.738	.757	Attitude toward pro-social rules/conventions in society	D10A9N*
		.811	.757	Accepts responsibility for anti-social behavior	D10A10N
		.496	.508	View of Hostile interpretation of actions and intentions of others in a common nonconfrontational setting	D11A2N

Figure 6. Criminogenic Needs - Attitude



### Aggression - Domain 11

The results of the EFA tests suggest a one-factor solution (see Tables 18.0 and 18.1). Following the MGCFA analyses, the *Aggression* scale passed all measurement tests. However, to address a localized ill-fit issue, a correlated residual was added between 'Belief in Yelling' and 'Belief in Fighting' for all models. The *Aggression* scale is a gender invariant, parallel scale. The visual representation of the final scale is presented in Figure 7, and item descriptions are presented in Table 18.3.

Table 18.0 EFA on Domain 11 - Aggression

Model	df	CFI	TLI	RMSEA [90% C.I.]	SRMR	Eigenvalues
1 Factor	5	.988	.977	.095 [.092098]	.035	3.127
2 Factors	1	.999	.993	.054 [.044059]	.008	.631
3 Factors	N/A	N/A	N/A	N/A	N/A	.556

Table 18.1 EFA on Aggression

Item	Var Name	F1
Frustration Tolerance	D11A1N	.674
Belief in Yelling	D11A3N	.731
Belief in Fighting	D11A4N	.935
Violent Events Reported	D11A5N	.916
Control Aggression	D12A11N	.782

Table 18.2 Omnibus Measurement Invariance and Structural Tests – Aggression

Model	Test of Structure/Invariance		CFI	TLI	RMSEA	Δ df	Δ CFI	ΔTLI	Pass?
					[90% C.I.]				
G1*	MGCFA - Configural Model	8	.997	.991	.058 [.054062]				
G2	MGCFA - Weak Invariant Model	13	.998	.998	.031 [.028034]	5	+.001	+.007	Yes
G3	MGCFA - Strong Invariant Model	20	.995	.995	.044 [.041046]	7	.003	.003	Yes
G4	Item Invariance	24	.992	.993	.051 [.049053]	4	.003	.002	Yes
G5	Final One Group CFA Model	4	.996	.991	.061 [.057064]				

<sup>\*</sup>Correlated residual is added between D11A3N and D11A4N.

Table 18.3 EFA on Aggression (Model G4)

Tolerance for frustration	Name  D11A1N
Tolerance for frustration	D11A1N
Belief in yelling and verbal aggression to resolve a disagreement or conflict	D11A3N
Belief in fighting and physical aggression to resolve a disagreement or conflict	D11A4N
Violent Events Reported	D11A5N
Control of Aggression	D12A11N
	•

Model G4 Aggression RMSEA = .051 [.049 - .053] CFI = .992; TLI = .993; df = 24(Female Model) .708 .708 .708 .708 .708 Belief in Violent Events Frustration Belief in Control Reported Tolerance Yelling Fighting Aggression Aggression (Male Model) .761 .649 .741 .775 Frustration Belief in Belief in Violent Events Control Yelling Tolerance Fighting Reported Aggression

Figure 7. Criminogenic Needs - Aggression

### Skills – Domain 12

As shown in Tables 19.0 and 19.1, a three-factor solution best fit the data. The fit statistics from the MGCFA also align with this finding (see Table 19.2). Together, the results suggest that the *Skill* scale is a second order, gender-invariant and parallel scale. The visual representation of the final scale is presented in Figure 8, and item descriptions are displayed in Table 19.3.

Table 19.0 EFA on Domain 12 - S
---------------------------------

Model	df	CFI	TLI	RMSEA [90% C.I.]	SRMR	Eigenvalues
1 Factor	35	.987	.983	.081 [.079082]	.121	6.953
2 Factors	26	.993	.987	.069 [.068071]	.065	.648
3 Factors*	18	.998	.996	.039 [.037041]	.012	.567
4-6 Factors	N/A	N/A	N/A	N/A	N/A	.527

<sup>\*1</sup> Factor solution is not retained due to poor RMSEA value in CFA and, multiple (n=3) correlated residuals have to be added in order to address localized ill fit issue.

Table 19.1 EFA on Skills

Item	Var Name	F1	F2	F3
Consequential Thinking	D12A1N	.848		
Goal Setting	D12A2N	.468		
Problem Solving	D12A3N	.870		
Situational Perception	D12A4N	.604	.359	
Dealing with Others	D12A5N	.341	.631	

Difficult Situations	D12A6N	.838	
Dealing with Emotions	<i>D12A7</i> N	.785	
Internal Triggers	D12A8N		.267
External Triggers	D12A9N		1.004
Control Impulses	D12A10N		.688

Table 19.2 Omnibus Measurement Invariance and Structural Tests – Skills

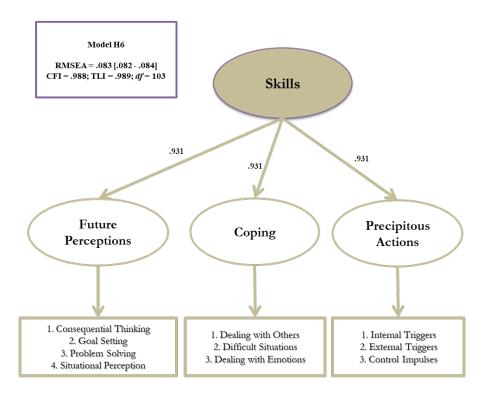
Model	Test of Structure/Invariance	df	CFI	TLI	RMSEA	$\Delta df$	Δ CFI	ΔTLI	Pass?
					[90% C.I.]				
H1	MGCFA - Configural Model	64	.992	.988	.088 [.087089]				
H2	MGCFA - Weak Invariant Model	74	.996	.995	.056 [.054057]	10	+.004	+.007	Yes
Н3	MGCFA - Strong Invariant Model	89	.995	.995	.055 [.054056]	15	.001	.000	Yes
H4	Second Order Tau Model	91	.994	.994	.062 [.061063]	2	.001	.001	Yes
H5	First Order Factor Within Factor Item Invariance	98	.987	.988	.088 [.086089]	7	.007	.006	Yes
H6	First order Factor Loading Item Invariance	103	.988	.989	.083 [.082084]	2	+.001	+.001	Yes
H7	Final One Group CFA	34	.990	.986	.094 [.093096]				

The constraint of Item D10A9N is turned off.

Table 19.3 Skills (Model H6)

Factor	Loading	Item	Loading	Item Description	Var
Male	Female	Male	Female	Tem Description	Name
Futute	Futute	.770	.847	Consequential thinking	D12A1N
	rulaic	.699	.847	Goal setting	D12A2N
Perceptions	Perceptions	.894	.847	Problem-solving	D12A3N
(.931)	(.931)	.946	.847	Situational perception	D12A4N
		.915	.926	Dealing with others	D12A5N
Coping	Coping	.947	.926	Dealing with difficult situations:	D12A6N
(.931)	(.931)	.919	.926	Dealing with feelings/emotions	D12A7N
Precipitous	Precipitous	.923	.859	Monitoring of internal triggers (distorted thoughts) that can lead to trouble	D12A8N
Actions	Actions	.908	.859	Monitoring of external triggers (events or situations) that can lead to trouble:	D12A9N
(.931)	(.931)	.687	.859	Control of impulsive behaviors that get youth into trouble:	D12A10N

Figure 8. Criminogenic Needs - Skills



## All individual Scales – One Group CFA

As a result of all individual scales passing group invariance tests, and additional one group CFA was conducted with a combined gender sample. We used the identified scales from the MGCFA tests, and the findings from the one group CFA demonstrate that all of the identified scales functions similarly to the results of the MGCFA analyses. The CFI, TLI and RMSEA statistics are all in the acceptable range, as presented in Table 20.

Table 20 All Domains One Group CFA Final Models

Model	Test of Structure/Invariance	df	CFI	TLI	RMSEA
					[90% C.I.]
I1	School	31	.995	.992	.072 [.070073]
12	Association = Use of Time + Employment + Relationships	23	1.000	.999	.039 [.037040]
I3***	Family	101	.935	.923	.079 [.079080]
I4*	Alcohol and Drug	161	.983	.980	.046 [.045046]
15	Mental Health	5	.998	.995	.042 [.038045]

I6*	Attitude/Behavior	55	.943	.932	.090 [.089092]
I7**	Aggression	4	.996	.991	.061 [.057064]
I8*	Skills	34	.990	.986	.094 [.093096]

<sup>\*</sup>Higher order factor loadings are constrained to be equal to obtain over-identified model

### Convergent/Divergent Validity at the Scale Level

Before conducting EFA tests to evaluate the convergent and divergent validity at the scale level, the composite scores for each of the identified scales were computed and used as an indicator in the EFA models. As presented in Table 21.0, a two-factor solution fit the data. Table 21.1 shows that mental health cross-loaded on factor F1 while also loading on factor F2. Given the loading (.676) is stronger than the cross-loading (.317), mental health is retained in factor F2 for further MGCFA analyses. The strong loadings within Factor F2 and face validity of the domains suggest that these four domains might represent an underlying latent factor.

Table 21.0 EFA on All Domains Composite Scores

Model	df	CFI	TLI	RMSEA [90% C.I.]	SRMR	Eigenvalues
1 Factor	14	.916	.874	.107 [.105109]	.047	3.339
2 Factors	8	.983	.954	.064 [.062067]	.017	1.180
3 Factors	7	.997	.987	.031 [.028034]	.008	.849

Table 21.1 EFA on 2-Factor Solution

Scales	F1	F2
School	.594	
Association	.668	
Family	.449	
Substance Abuse	.474	
Mental Health	.317	.676
Attitude/Behavioral		.677
Aggression		.557
Skills		.452

### MGCFA - Mental Health + Attitude/Behavioral + Aggression + Skills

Based on the EFA evidence, Mental Health, Attitude/Behavioral and Aggression were selected for further measurement invariance and higher order modeling tests. As presented in Table 21.2, these four domains passed the second order modeling tests (Model J-3) but did not pass the parallel tests. The final model was retained after releasing the constraint on the mental health factor. The result is a higher order mental health factor with a loading of .345 (see Table 21.3). As this this loading is relative weak compared to the other three loadings (.817), the mental health factor is not retained in the final scale.

<sup>\*\*</sup>Correlated residual added between D11A3N and D11A4N

<sup>\*\*\*</sup>Family does not contain 'Family Member Problem' because it is historical in nature.

Table 21.2 Omnibus Measurement Invariance and Structural Tests – D9 D10 D11 D12

Mental Health + Attitude/Behavioral + Aggression + Skills

Model	Test of Structure/Invariance	df	CFI	TLI	RMSEA	$\Delta df$	Δ CFI	ΔTLI	Pass?
					[90% C.I.]				
J1	MGCFA - Baseline Model	862	.967	.967	.055 [.055056]				
J2	MGCFA - Second Order Tau Model with All Four Factors	881	.945	.946	.071 [.070071]	19	.022	.021	No
J3*	MGCFA - No Constraint on Mental Health	879	.963	.964	.058 [.058058]	17	.004	.003	Yes

<sup>\*</sup>In Model H3, Model H1 was used for comparison.

Table 21.3 Mental Health + Attitude/Behavioral + Aggression + Skills (Model J3)

Factor	r Loading	Facto
1 actor	Female	Male
Skills	.817	.817
Aggression	.817	.817
Attitude/Behavioral	.817	.817
Mental Health	.345	.354

# MGCFA - Attitude/Behavioral + Aggression + Skills = Cognition & Behaviors

Measurement invariance and higher order modeling tests were re-conducted by using only Attitude/Behavioral, Aggression and Skills. As shown in Table 21.4, the model passed an omnibus second order and measurement invariance test (Model K2). Therefore, domains 10, 11 and 12 are measures of a higher order factor, which we call 'Cognition & Behaviors'. The visual representation of the final scale is presented in Figure 9, and the loadings of the higher order factor are presented in Table 21.5.

Table 21.4 Omnibus Measurement Invariance and Structural Tests –D10 D11 D12

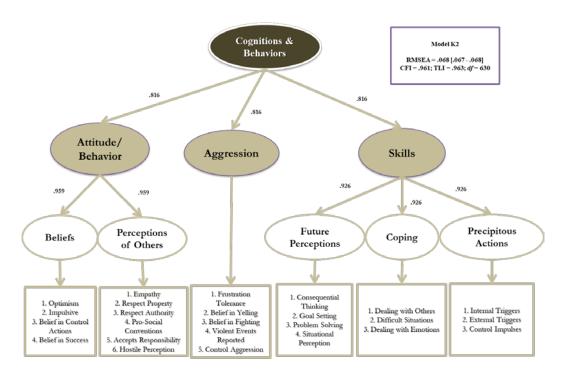
Attitude/Behavioral + Aggression + Skills

Model	Test of Structure/Invariance	df	CFI	TLI	RMSEA	$\Delta df$	Δ CFI	ΔTLI	Pass?
					[90% C.I.]				
K1	MGCFA - Baseline Model	603	.966	.968	.063 [.063064]				
K2	MGCFA - Second Order Tau Model	630	.961	.963	.068 [.067068]	27	.005	.005	Yes

Table 21.5 Attitude/Behavioral + Aggression + Skills (Model K2)

r Loading	ractor
Female	Male
.816	.816
.816	.816
.816	.816
_	.816 .816

Figure 9. Criminogenic Needs - Cognitions & Behaviors



# Global Criminogenic Needs Factor Model - EFA with School, Association, Family, Drug, Cognitions & Behaviors and Mental Health

Further EFA analyses were conducted using the School, Association, Family, Drug, and Mental Health scales, as well as the established higher order scale of Cognitions & Behaviors. As demonstrated in Table 22, a two-factor solution is obtained. However, after examining factorial pattern displayed in Table 22.1, the two-factor solution is not retained because the loadings of the Mental Health scale are weak (.238). Accordingly, we selected the one-factor solution. As displayed in Table 22.2, the factorial pattern of the one-factor solution also suggests that Mental Health is not a measure of the underlying G-factor.

Table 22.0 EFA on School, Association, Family, Drug, Cognitions & Behaviors and Mental Health

Model	df	CFI	TLI	RMSEA [90% C.I.]	SRMR	Eigenvalues
1 Factor	9	.918	.864	.099 [.097102]	.039	2.566
2 Factors	8	.983	.954	.064 [.062067]	.017	1.060
3 Factors						

Table 22.1 EFA on 2-Factor Solution - Not Retained

Scales	F1	F2
School	.631	
Association	.673	
Family	.551	
Substance Abuse	.497	
Cognitions & Behaviors	.001	1.205
Mental Health	096	.238

Table 22.2 EFA on 1-Factor Solution - Retained

Scales	F1
School	.553
Association	.774
Family Pamily	.621
Substance Abuse	.414
Cognitions & Behaviors	.728
Mental Health	.122

## EFA with School, Association, Family, Drug, and Cognitions & Behaviors

The EFA was re-run with the School, Association, Family, Drug, Cognitions & Behaviors scales. The results indicated a one-factor solution (see Table 22.3). Loadings from the EFA are displayed in the Table 22.4, and they demonstrate that the one-factor solution is an acceptable EFA model. In short, the loadings of the indicators/scales form an underlying factor, and a one-factor solution is retained.

Table 22.3 EFA on Domains Scores (No Mental Health)

Model	df	CFI	TLI	RMSEA [90% C.I.]	SRMR	Eigenvalues
1 Factor	5	.971	.943	.075 [.071078]	.024	2.550
2 Factors	1	.997	.972	.052 [.045060]	.008	.819
3 Factors						

Table 22.4 EFA on 1-Factor Solution (No Mental Health)

Scales	F1
School	.556
Association	.783
Family	.618
Substance Abuse	.417
Attitude/Behavioral+ Aggression+ Skills	.718

### Global Criminogenic Needs Factor Model - True Score Variance Model

The School, Association, Family, Drug, and Cognitions & Behaviors scales have been identified as group invariant, parallel, higher order factor scales. To estimate the true relationships among these scales, we used their true score variances, extracted based on wh coefficients, as indicators in the final G-Factor Model.

### Construct Reliability

Construct reliability was estimated for all of the identified, independent higher order scales, including School, Association, Family, Drug, and Cognitions & Behaviors. Table 23.0 presents the construct reliability by using two different estimators, *wh* and Cronbach's Alpha. The construct reliability for all the scales,

according to the **wh** coefficients, are .860 (School), .599 (Association), .558 (Family), (.709) Substance Abuse, and .788 (Cognitions & Behaviors). Cronbach's Alpha coefficients are reported for comparison and reference.

Table 23.0 Construct Reliability

Scales	wh	Cronbach Alpha
School	.860	.899
Association	.599	.541
Family -	.558	.404
Substance Abuse	.709	.372
Cognitions & Behaviors	.788	.750

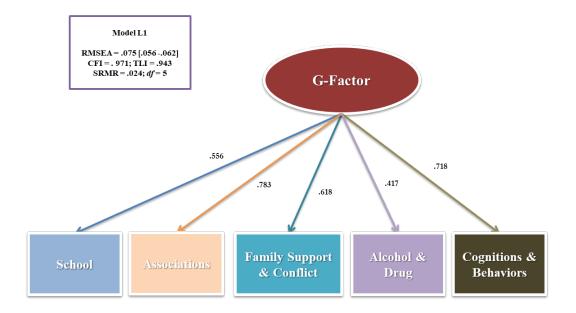
#### Final Model and Measurement Invariance Test

To confirm the G-Factor model, both the composite scores variance and true score variance indicators were used. These indicators were tested in independent models. As displayed Model 1 in Table 24.0 and Figure 10, the composite score (unweighted) indicator model results in a CFI of .971, TLI of .943, and RMSEA of .075. The loadings for School (.556), Association (.783), Family Support & Conflict (.618), Substance Abuse (.417), and Cognitions & Behaviors (.718) are relatively weak, as the indicators contain true score variance and factor disturbances (Mei, 2018). The visual representation of the G-Factor Composite Score Model is presented in Figure 10.

Table 24.0 One Group - Final Global-Risk-Needs CFA Model

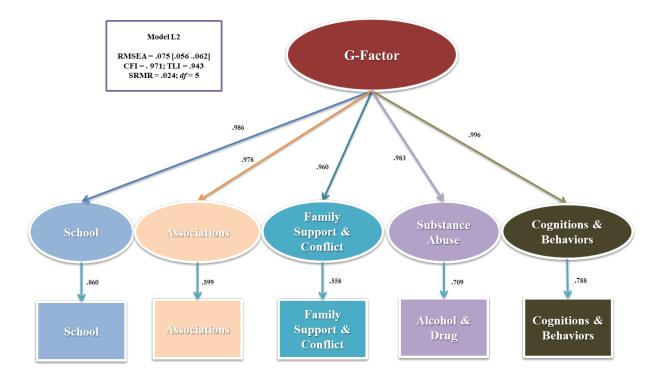
Model	Test of Structure/Invariance	df	CFI	TLI	RMSEA	SRMR	$\Delta df$	Δ CFI	ΔTLI	Pass?
					[90% C.I.]					
L1	Composite Score Model	5	.971	.943	.075 [.071078]	.024				
L2	True Score Variance Model – Baseline Model	5	.971	.943	.075 [.071078]	.024				Final Model
L3	True Score Variance Tau Model	9	.784	.760	.153 [.150155]	.146	9	.187	.183	No

Figure 10. Global Criminogenic Needs Factor - Composite Score Model



In Model L2, the scales' true score variances were used as indicators in the final one group, one-factor CFA model. With a CFI of .971, TLI of .943, RMSEA of .075, as well as strong loadings for School (.986), Association (.978), Family Support & Conflict (.960), Substance Abuse (.983) and Cognitions & Behaviors (.996), this model (L2) is retained as the final G-factor model.

Figure 11. Global Criminogenic Needs Factor - True Score Variance Model



# Appendix VI – Criminogenic Needs Models

School Needs Model

					Male					Female		
			Any	Felony	Violent	Property	Drug	Any	Felony	Violent	Property	Drug
22772.27	Min	Max										
SCHOOL	-6	8										
INVOLVEMENT												
Current enrollment status,												
regardless of attendance Graduated, GED or												
full-time							-2		-2			-2
Part-time							-1		-1			<u>-1</u>
Suspended, dropped							-		-			
out or expelled							3		3			3
Involvement in school												
activities												
Two or more			-2				-2		-2			-2
One			-1				-1		-1			-1
Not involved but												
interested			1				1		1			1
Not interested			2				2		2			2
Attendance												
Good, few excused												
absences							-2		-2			-2
No unexcused absences							-1		-1			-1
Some partial-day unexcused												
absences							1		1			1
Some full-day unexcused												
absences							2		2			2
Truant or withdrawn							3		3			3
BELIEVE ENCOURAGE	-4	4										
& STAFF SCALE												
Believes there is value in												
getting an education			4	4	4		4		4			
Yes			-1	-1	-1		-1		-1			-1
Somewhat			1	1	1		1		1			2
No Believes school provides an			2	2	2		2		2			
encouraging environment												
Yes			-1	-1	-1		-1		-1			-1
Somewhat			1	1	1		1		1			-1 1
No			2	2	2		2		2			2
Teachers, staff, or coaches the												
youth likes or feels												
comfortable talking to												
None			0	0	0	0	0	0	0			0
One			-1	-1	-1	-1	-1	-1	-1			-1
Two or more			-2	-2	-2	-2	-2	-2	-2			-2
EXPULSIONS &	-4	8										
CONDUCT SCALE	·	V										
History of expulsions &												
suspensions since the first												
grade												
None			-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
One			1	1	1	1	1	1	1	1	1	1
Two or more			2	2	2	2	2	2	2	2	2	2
Number of expulsions &												
suspensions in the most recent												
term												
None			-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
One			1	1	1	1	1	1	1	1	1	1
Two or three			2	2	2	2	2	2	2	2	2	2
Over three			3	3	3	3	3	3	3	3	3	3
Conduct in the most recent												
term												
Recognition for good school			_	_	_	_	_	_	_	_	_	_
			-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
behavior No problems			-1	-1	-1	-1	-1	-1	-1	-1	-1	-1

Problems reported by										
teachers	1	1	1	1	1	1	1	1	1	1
Calls to parents	2	2	2	2	2	2	2	2	2	2
Calls to police	3	3	3	3	3	3	3	3	3	3
ASSESSMENT STAY, -4 ATTENDANCE,	4									
ACADEMIC SCALE										
Academic performance										
Mostly As	-9	-6	-3	-6	-3	-6	-3		-3	-3
Mostly As & Bs	-6	-4	-2	-4	-2	-4	-2		-2	-2
Mostly Bs & Cs, no Fs	-3	-2	-1	-2	-1	-2	-1		-1	-1
Mostly Cs & Ds, some Fs	3	2	1	2	1	2	1		1	1
Some Ds & mostly Fs	6	4	2	4	2	4	2		2	2
Assessment of youth's										
likelihood of staying and										
graduating										
Very likely	-3	-2	-1	-2	-1	-2	-1		-1	-1
Uncertain	3	4	1	4	1	4	1		1	1
Not likely	6	6	2	6	2	6	2		2	2
SINGLE ITEM										
Special education student or										
special education need										
None			1	1	1	1		1	1	
Behavior	7	6	10	5	6	1	5	9	5	
ADHD	1		2	2			3	3		1
Learning			1		1	1	3	6	1	
RESULTS										
AUC	0.6	0.59	0.6	0.58	0.57	0.57	0.6	0.58	0.56	0.57
Cut point										
Low-Moderate	0	4	0	0	0	0	6	6	6	0
Moderate-High	19	18	14	13	14	13	17	13	10	20
Population %										
Low	16	28	17	19	18	24	41	68	64	20
Moderate	55	53	54	67	48	67	41	26	30	65
High	29	19	28	14	34	8	18	6	6	16
Recidivism %										
Low	37	16	14	19	6	34	8	13	19	3
Moderate	54	25	21	31	9	45	13	15	24	4
High	64	31	29	39	11	53	16	27	31	7
Gender-neutral base rate	34	16	14	19	5	34	16	14	19	5

					Male					Female		
			Any	Felony	Violent	Property	Drug	Any	Felony	Violent	Property	Drug
	Min	Max										
CURRENT STRUCTURED & UNSTRUCTURED FREE TIME ACTIVITIES SCALE	-5	0										
Current interest in Structured												
activities												
None			0	0	0	0	0	0	0		0	0
Some			-1	-1	-1	-1	-1	-1	-1		-1	-1
Current interest and involvement in structured recreational activities												
Two or more			-3	-3	-3	-3	-3	-3	-3		-3	-3
One			-2	-2	-2	-2	-2	-2	-2		-2	-2
Interested, not involved			-1	-1	-1	-1	-1	-1	-1		-1	-1
Not interested			0	0	0	0	0	0	0		0	0
Current interest and involvement in unstructured recreational activities												
Two or more			-3	-3	-3	-3	-3	-3	-3		-3	-3
One			-2	-2	-2	-2	-2	-2	-2		-2	-2
Interested, not involved			-1	-1	-1	-1	-1	-1	-1		-1	-1
Not interested			0	0	0	0	0	0	0		0	0

RELATIONSHIPS & UNDERSTANDING											
History of positive personal											
relationship(s) with past											
employer(s) or adult											
coworker(s)											
None						0					0
One						-1					-1
Two or more						-2					-2
Current positive personal											
relationship(s) with employer(s)											
or adult coworker(s)											
Not currently employed or											
currently employed but no positive relationships			0	0	0	0	0	0	0		0
One or more			-2	-2	-2	-1	-2	-1	-3		0
Understanding of what is			-2	-2	-2	-1	-2	-1	-5		-1
required to maintain a job											
Lacks knowledge to maintain											
Job			0	0	0	0	0	0		0	0
Has knowledge to maintain											
Job			-1	-3	-3	-1	-3	-2		-3	-1
Has demonstrated											
maintaining job			-2	-6	-6	-2	-6	-4		-6	-2
PRO-SOCIAL ASSOCIATES	-5 0										
Current positive adult non-											
family relationships not											
connected to school or											
employment None					0		0		0		0
One					-1		-1		-1		-1
Two					-2		-2		-2		-2
Three or more					-3		-3		-3		-3
Current pro-social community											
ties											
None		0	0	0	0	0	0		0		0
Some		-1	-1	-1	-1	-1	-1		-1		-1
Strong		-2	-2	-2	-2	-2	-2		-2		-2
ANTI-SOCIAL	-4 6										
ASSOCIATES											
Current friends/companions youth spends time with											
volith spends time with											
		4	2	2	2	1	2	1	1	2	1
Only pro-social friends		-4	-3	-2	-3	-1	-2	-1	-1	-2	-1
Only pro-social friends No consistent friends or		-4	-3	-2	-3	-1	-2	-1	-1	-2	-1
Only pro-social friends No consistent friends or companions/mix of pro-											
Only pro-social friends No consistent friends or companions/mix of pro- social and anti-social friends		0	0	0	0	0	0	0	0	0	0
Only pro-social friends  No consistent friends or companions/mix of pro- social and anti-social friends  Only anti-social friends		0 4	0 3	0 2	0 3	0		0	0	0 2	0
Only pro-social friends  No consistent friends or companions/mix of pro- social and anti-social friends Only anti-social friends Gang member/associate		0	0	0	0	0	0 2	0	0	0	0
Only pro-social friends  No consistent friends or companions/mix of pro- social and anti-social friends  Only anti-social friends		0 4	0 3	0 2	0 3	0	0 2	0	0	0 2	0
Only pro-social friends No consistent friends or companions/mix of pro- social and anti-social friends Only anti-social friends Gang member/associate Currently admires/ emulates		0 4	0 3	0 2	0 3	0	0 2	0	0	0 2	0
Only pro-social friends No consistent friends or companions/mix of pro- social and anti-social friends Only anti-social friends Gang member/associate Currently admires/ emulates anti-social peers		0 4 8	0 3 6	0 2 4	0 3 6	0 1 2	0 2 4	0 1 2	0 1 2	0 2 4	0 1 2
Only pro-social friends  No consistent friends or companions/mix of pro- social and anti-social friends Only anti-social friends Gang member/associate Currently admires/ emulates anti-social peers Does not admire		0 4 8	0 3 6	0 2 4	0 3 6	0 1 2	0 2 4	0 1 2 -1	0 1 2	0 2 4	0 1 2
Only pro-social friends No consistent friends or companions/mix of pro- social and anti-social friends Only anti-social friends Gang member/associate Currently admires/ emulates anti-social peers Does not admire Somewhat admires Admires, emulates Current resistance to anti-social		0 4 8	0 3 6	0 2 4	0 3 6	0 1 2	0 2 4	0 1 2	0 1 2	0 2 4	0 1 2 -1 1
Only pro-social friends No consistent friends or companions/mix of pro- social and anti-social friends Only anti-social friends Gang member/associate Currently admires/ emulates anti-social peers Does not admire Somewhat admires Admires, emulates Current resistance to anti-social peer influence		0 4 8	0 3 6	0 2 4	0 3 6	0 1 2	0 2 4	0 1 2	0 1 2	0 2 4	0 1 2 -1 1
Only pro-social friends No consistent friends or companions/mix of pro- social and anti-social friends Only anti-social friends Gang member/associate Currently admires/ emulates anti-social peers Does not admire Somewhat admires Admires, emulates Current resistance to anti-social peer influence Does not associate with anti-		0 4 8	0 3 6	0 2 4 -2 2 4	0 3 6	0 1 2 -1 1 2	0 2 4 -2 2 4	0 1 2 -1 1 2	0 1 2 -1 1 2	0 2 4 -2 2 4	0 1 2 -1 1 2
Only pro-social friends No consistent friends or companions/mix of pro- social and anti-social friends Only anti-social friends Gang member/associate Currently admires/ emulates anti-social peers Does not admire Somewhat admires Admires, emulates Current resistance to anti-social peer influence Does not associate with anti- social peers		0 4 8 -4 4 8	0 3 6	0 2 4 -2 2 4	0 3 6	0 1 2 -1 1 2	0 2 4 -2 2 4	0 1 2 -1 1 2	0 1 2 -1 1 2	0 2 4 -2 2 4	0 1 2 -1 1 2
Only pro-social friends No consistent friends or companions/mix of pro- social and anti-social friends Only anti-social friends Gang member/associate Currently admires/ emulates anti-social peers Does not admire Somewhat admires Admires, emulates Current resistance to anti-social peer influence Does not associate with anti- social peers Usually resists		0 4 8 -4 4 8	0 3 6	0 2 4 -2 2 4	0 3 6 -3 3 6	0 1 2 -1 1 2 -2 -1	0 2 4 -2 2 4	0 1 2 -1 1 2	0 1 2 -1 1 2	0 2 4 -2 2 4	0 1 2 -1 1 2
Only pro-social friends No consistent friends or companions/mix of pro- social and anti-social friends Only anti-social friends Gang member/associate Currently admires/ emulates anti-social peers Does not admire Somewhat admires Admires, emulates Current resistance to anti-social peer influence Does not associate with anti- social peers Usually resists Rarely resists		0 4 8 -4 4 8	0 3 6 -3 3 6	0 2 4 -2 2 4 -4 -2 2	0 3 6 -3 3 6	0 1 2 -1 1 2 -2 -1 1	0 2 4 -2 2 4 -4 -2 2	0 1 2 -1 1 2 -2 -1 1	0 1 2 -1 1 2 -2 -1 1	0 2 4 -2 2 4 -4 -2 2	0 1 2 -1 1 2 -2 -1 1
Only pro-social friends No consistent friends or companions/mix of pro- social and anti-social friends Only anti-social friends Gang member/associate Currently admires/ emulates anti-social peers Does not admire Somewhat admires Admires, emulates Current resistance to anti-social peer influence Does not associate with anti- social peers Usually resists Rarely resists Leads anti-social peers		0 4 8 -4 4 8	0 3 6	0 2 4 -2 2 4	0 3 6 -3 3 6	0 1 2 -1 1 2 -2 -1	0 2 4 -2 2 4	0 1 2 -1 1 2	0 1 2 -1 1 2	0 2 4 -2 2 4	0 1 2 -1 1 2
Only pro-social friends No consistent friends or companions/mix of pro- social and anti-social friends Only anti-social friends Gang member/associate Currently admires/ emulates anti-social peers Does not admire Somewhat admires Admires, emulates Current resistance to anti-social peer influence Does not associate with anti- social peers Usually resists Rarely resists Leads anti-social peers SINGLE ITEMS		0 4 8 -4 4 8	0 3 6 -3 3 6	0 2 4 -2 2 4 -4 -2 2	0 3 6 -3 3 6	0 1 2 -1 1 2 -2 -1 1	0 2 4 -2 2 4 -4 -2 2	0 1 2 -1 1 2 -2 -1 1	0 1 2 -1 1 2 -2 -1 1	0 2 4 -2 2 4 -4 -2 2	0 1 2 -1 1 2 -2 -1 1
Only pro-social friends No consistent friends or companions/mix of pro- social and anti-social friends Only anti-social friends Gang member/associate Currently admires/ emulates anti-social peers Does not admire Somewhat admires Admires, emulates Current resistance to anti-social peer influence Does not associate with anti- social peers Usually resists Rarely resists Leads anti-social peers SINGLE ITEMS Current employment status		0 4 8 -4 4 8	0 3 6 -3 3 6	0 2 4 -2 2 4 -4 -2 2	0 3 6	0 1 2 -1 1 2 -2 -1 1	0 2 4 -2 2 4 -4 -2 2	0 1 2 -1 1 2 -2 -1 1 2	0 1 2 -1 1 2 -2 -1 1 2	0 2 4 -2 2 4 -4 -2 2 4	0 1 2 -1 1 2 -2 -1 1 2
Only pro-social friends No consistent friends or companions/mix of pro- social and anti-social friends Only anti-social friends Gang member/associate Currently admires/ emulates anti-social peers Does not admire Somewhat admires Admires, emulates Current resistance to anti-social peer influence Does not associate with anti- social peers Usually resists Rarely resists Leads anti-social peers SINGLE ITEMS Current employment status Not currently employed		0 4 8 -4 4 8	0 3 6 -3 3 6	0 2 4 -2 2 4 -4 -2 2	0 3 6	0 1 2 -1 1 2 -2 -1 1	0 2 4 -2 2 4 -4 -2 2	0 1 2 -1 1 2 -2 -1 1 2	0 1 2 -1 1 2 -2 -1 1 2	0 2 4 -2 2 4 -4 -2 2 4	0 1 2 -1 1 2 -2 -1 1 2
Only pro-social friends No consistent friends or companions/mix of pro- social and anti-social friends Only anti-social friends Gang member/associate Currently admires/ emulates anti-social peers Does not admire Somewhat admires Admires, emulates Current resistance to anti-social peer influence Does not associate with anti- social peers Usually resists Rarely resists Leads anti-social peers SINGLE ITEMS Current employment status Not currently employed Employment going well		0 4 8 -4 4 8	0 3 6 -3 3 6	0 2 4 -2 2 4 -4 -2 2	-3 -3 -6 -6 -3 3 6	0 1 2 -1 1 2 -2 -1 1	0 2 4 -2 2 4 -4 -2 2	0 1 2 -1 1 2 -2 -1 1 2	-1 1 2 -1 1 2 -2 -1 1 2	-2 2 4 -4 -2 2 4	0 1 2 -1 1 2 -2 -1 1 2
Only pro-social friends No consistent friends or companions/mix of pro- social and anti-social friends Only anti-social friends Gang member/associate Currently admires/ emulates anti-social peers Does not admire Somewhat admires Admires, emulates Current resistance to anti-social peer influence Does not associate with anti- social peers Usually resists Rarely resists Leads anti-social peers SINGLE ITEMS Current employment status Not currently employed Employment going well Problems with employment		0 4 8 -4 4 8	0 3 6 -3 3 6	0 2 4 -2 2 4 -4 -2 2	0 3 6	0 1 2 -1 1 2 -2 -1 1	0 2 4 -2 2 4 -4 -2 2	0 1 2 -1 1 2 -2 -1 1 2	0 1 2 -1 1 2 -2 -1 1 2	0 2 4 -2 2 4 -4 -2 2 4	0 1 2 -1 1 2 -2 -1 1 2
Only pro-social friends No consistent friends or companions/mix of pro- social and anti-social friends Only anti-social friends Gang member/associate Currently admires/ emulates anti-social peers Does not admire Somewhat admires Admires, emulates Current resistance to anti-social peer influence Does not associate with anti- social peers Usually resists Rarely resists Leads anti-social peers SINGLE ITEMS Current employment status Not currently employed Employment going well Problems with employment Currently in a "romantic,"		0 4 8 -4 4 8	0 3 6 -3 3 6	0 2 4 -2 2 4 -4 -2 2	-3 -3 -6 -6 -3 3 6	0 1 2 -1 1 2 -2 -1 1	0 2 4 -2 2 4 -4 -2 2	0 1 2 -1 1 2 -2 -1 1 2	-1 1 2 -1 1 2 -2 -1 1 2	-2 2 4 -4 -2 2 4	0 1 2 -1 1 2 -2 -1 1 2
Only pro-social friends No consistent friends or companions/mix of pro- social and anti-social friends Only anti-social friends Gang member/associate Currently admires/ emulates anti-social peers Does not admire Somewhat admires Admires, emulates Current resistance to anti-social peer influence Does not associate with anti- social peers Usually resists Rarely resists Leads anti-social peers SINGLE ITEMS Current employment status Not currently employed Employment going well Problems with employment		0 4 8 -4 4 8	0 3 6 -3 3 6	0 2 4 -2 2 4 -4 -2 2	-3 -3 -6 -6 -3 3 6	0 1 2 -1 1 2 -2 -1 1	0 2 4 -2 2 4 -4 -2 2	0 1 2 -1 1 2 -2 -1 1 2	-1 1 2 -1 1 2 -2 -1 1 2	-2 2 4 -4 -2 2 4	0 1 2 -1 1 2 -2 -1 1 2

Romantically involved: pro-										
social person	-2	-1	-1		-1					
Romantically involved: anti-										
social person	2	1	1		1					
RESULTS										
AUC	0.62	0.63	0.6	0.6	0.6	0.6	0.62	0.57	0.59	0.59
Cut point										
Low-Moderate	-10	0	-7	-5	-5	-7	0	1	-8	-5
Moderate-High	12	5	3	7	3	4	4	4	7	3
Population %										
Low	19	44	23	33	19	24	48	54	14	34
Moderate	59	22	49	43	69	71	45	41	72	61
High	22	33	27	25	12	5	8	5	14	5
Recidivism %										
Low	38	16	14	20	5	34	8	12	30	3
Moderate	54	24	22	31	9	45	13	17	21	5
High	68	33	30	38	14	60	20	20	13	8
Gender-neutral base rate	34	16	14	19	5	34	16	14	19	5

					Male					Female		
			Any	Felony	Violent	Property	Drug	Any	Felony	Violent	Property	Drug
	Min	Max	•	-				•				
FAMILY MEMBER PROBLEM	0	14										
Current family members in												
jail/prison												
Mother/female caretaker			1	3	1	1	1	1			1	1
Father/male caretaker			1	3	1	1	1	1			1	1
Sibling			1	3	1	1	1	1			1	1
Other family member			1	3	1	1	1	1			1	1
Problem of parent who are currently involved with the household												
No parent, none in household, or no problem			0			0		0			0	0
Alcohol problem			1			1		1			1	1
Drug problem			1			1		1			1	1
Mental health problem			1			1		1			1	1
Physical health problem			1			1		1			1	1
Employment problem			1			1		1			1	1
Problem with siblings who are currently involved with the household  No siblings, none in												
household, or no problem			0			0		0	0	0	0	0
Alcohol problem			1			1		1	1	1	1	1
Drug problem			1			1		1	1	1	1	1
Mental health problem			1			1		1	1	1	1	1
Physical health problem			1			1		1	1	1	1	1
Employment problem			1			1		1	1	1	1	1
RESIDENTIAL STABILITY	-9	4										
Annual combined income of												
youth and family			2		2	2		2	2	2	2	
Under \$15,000			2	2	2	2		2	2	2	2	2
\$15,000 to \$34,999			1	1	1	1 1		1	1 1	1	1 1	1
\$35,000 to \$49,999			-1	-1	-1	-1		-1	-1	-1	-1	-1
\$50,000 and over			-2	-2	-2	-2		-2	-2	-2	-2	-2
Youth is currently living with (protective)												
Alone			-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
Mother	_		-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
Dad			-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
Sibling			-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
Grandparent			-1	-1	-1	-1	-1	-1	-1	-1	-1	-1

Transient			1	1	1	1		1	1	1	1	1
Foster/Group Home			1	1	1	1		1	1	1	1	1
FAMILY SUPPORT	-4	5		1	1	1		<u> </u>	1	<u> </u>	1	1
Support network for family												
None						0	0					0
Some						-1	-1					-1
Strong						-2	-2					-2
Family willingness to help												
support of youth												
Willing to support							-1					-1
Inconsistently supports							1					1
Not willing to support							2					2
Hostile, berating, belittling							3					3
Family provides opportunities												
for youth to participate in												
family activities and decisions None				2			2					2
Some				1			1					1
Opportunities				-1			-1					<u>-1</u>
FAMILY PARENTING	-5	8		-1			-1					-1
SKILLS	-5	Ü										
Parental supervision												
Consistent, good				-2	-1	-1	-1	-1	-1	-1	-1	-1
Sporadic				2	1	1	1	1	1	1	1	1
Inadequate				4	2	2	2	2	2	2	2	2
Parental authority and control												
Usually follows family rules				-2	-1	-1	-1	-1	-1	-1	-2	-1
Sometimes follows family												
Rules				2	1	1	1	1	1	1	2	1
Consistently disobeys												
Family				4	2	2	2	2	2	2	4	2
Hostile toward family				4	2	2	2	2	2	2	4	2
Consistent appropriate												
punishment for bad behavior				2	1	1	- 1	1	1	1	1	
Consistently appropriate  Consistently overly severe				-2 2	-1 1	-1 1	-1 1	-1 1	-1 1	-1 1	-1 1	<u>-1</u>
Consistently insufficient				2	1	1	1	1	1	1	1	1
Inconsistent or erratic				4	2	2	2	2	2	2	2	2
Consistent appropriate rewards				+								
for good behavior												
Consistently appropriate				-2	-1	-1	-1	-1	-1	-1	-1	-1
Consistently overly												
indulgent/overly protective				2	1	1	1	1	1	1	1	1
Consistently insufficient				2	1	1	1	1	1	1	1	1
Inconsistent or erratic				4	2	2	2	2	2	2	2	2
Parental characterization of												
youth's anti-social behavior												
Parents disapprove				-2	-1	-1	-1	-1	-1	-1	-1	-1
Parents minimize/excuse				2	1	1	1	1	1	1	1	1
Parents okay with				2	1	1	11	1	11	11	11	1
Parents proud	-7	(		4	-2	-2	-2	-2	-2	-2	-2	-2
FAMILY CONFLICT	-/	6										
Youth has run away or been kicked out of home:												
No run away/kicked out			-1	-1	-2		-1	-1	-1	-1	-1	-1
Runaway/kicked out			1	1	2		1	1	1	1	1	1
Currently a runaway/kicked				1					1	1		-
Out			2	2	4		2	2	2	2	2	2
Family member(s) youth feels												
close to or has good												
relationship with												
None			1	1	2		1	1	1	1	1	
Mother/female caretaker			-1	-1	-2		-1	-1	-1	-1	-1	
Father/male caretaker			-1	-1	-2		-1	-1	-1	-1	-1	
Male sibling			-1	-1	-2		-1	-1	-1	-1	-1	
Female sibling			-1	-1	-2		-1	-1	-1	-1	-1	
Extended family			-1	-1	-2		-1	-1	-1	-1	-1	_

Level of conflict between										
parents, between youth and										
parents, among siblings										
Some family conflict: well										
Managed	-1	-1	-2		-1	-1	-1	-1	-1	
Verbal intimidation,										
Arguments	1	1	2		1	1	1	1	1	
Threats of physical abuse	2	2	4		2	2	2	2	2	
Domestic violence:										
physical/sexual abuse	3	3	6		3	3	3	3	3	
RESULTS										
AUC	0.59	0.57	0.59	0.58	0.55	0.56	0.56	0.59	0.54	0.57
Cut point										
Low-Moderate	-4	-1	-5	-4	-6	2	5	3	6	5
Moderate-High	16	9	7	10	6	13	13	7	13	13
Population %										
Low	11	20	16	21	11	21	44	54	41	41
Moderate	69	59	55	59	65	69	54	42	55	49
High	20	21	29	20	24	10	2	4	4	10
Recidivism %										
Low	35	16	14	20	6	34	10	12	19	4
Moderate	55	24	22	31	9	44	13	17	23	5
High	63	30	28	35	11	51	15	22	26	8
Gender-neutral base rate	34	16	14	19	5	34	16	14	19	5

Alcohol & Drug Needs Model Male Female Felony Violent Property Drug Felony Violent Property Any Any Drug Min Max DEPENDENCE Current Alcohol use: Requires greater quantities to get high No 0 0 0 0 0 Yes Current Drug use: Requires greater quantities to get high No 0 0 0 0 0 0 Yes 1 1 1 1 Current Alcohol use: Withdrawal symptoms No 0 0 0 0 0 0 Yes 1 1 1 1 Current Drug use: Withdrawal symptoms No 0 0 0 0 0 0 Yes 1 1 1 1 1 1 ABUSE 10 History of attending alcohol/drug education classes for an alcohol/drug problem: Never attended 0 0 0 0 0 0 0 0 0 Voluntarily attended -6 -3 -3 -3 -3 -3 -3 -3 -3 -3 Parent, school directed -4 -2 -2 -2 -2 -2 -2 -2 -2 -2 Court directed -2 -1 -1 -1 History of participating in alcohol/drug treatment program 0 Never participated 0 0 0 0 0 0 0 0 0 Participated once -1 -1 -1 -1 -1 -1 -1 -1 Participated several times -1 -1 -1 -1 -1 -1 -1 -1 -1 Current Alcohol use: Alcohol disrupts education 0 0 0 0 0 0 0 0 0 0 No Yes 1 1 1 1 1 1 1 1 1 Current Alcohol use: Alcohol causes family conflict No 0 0 0 0 0 0 0 0 0 0 Yes

Current Alcohol use: Alcohol										
interferes with pro-social										
friendships										
No	0	0	0	0	0	0	0	0	0	0
Yes	1	1	1	1	1	1	1	1	1	1
Current Alcohol use: Alcohol										
causes health problems			^	^					^	
No	0	0	0	0	0	0	0	0	0	0
Yes	1	1	1	1	1	1	1	1	1	1
Current Alcohol use: Alcohol contributes criminal behavior										
	0	0	0	0	0	0	0	0	0	0
No Yes	0	1	0	0	1	0	<u>0</u> 1	1	<u>0</u> 1	1
Current Drug use: Drug	1	1	1	1	1	1	1	1	1	1
disrupts education										
No	0	0	0	0	0	0	0	0	0	0
Yes	1	1	1	1	1	1	1	1	1	1
Current Drug use: Drug causes	1	1	1	-	-	•	1	1	1	
family conflict										
No	0	0	0	0	0	0	0	0	0	0
Yes	1	1	1	1	1	1	1	1	1	1
Current Drug use: Drug										
interferes with pro-social										
friendships										
No	0	0	0	0	0	0	0	0	0	0
Yes	1	1	1	1	1	1	1	1	1	1
Current Drug use: Drug causes										
health problems										
No	0	0	0	0	0	0	0	0	0	0
Yes	1	1	1	1	1	1	1	1	1	1
Current Drug use: Drug										
contributes criminal behavior										
No	0	0	0	0	0	0	0	0	0	0
Yes	1	1	1	1	1	1	1	1	1	1
HEALTH PROBLEM 0	6									
Type of (hard) drugs currently										
used										
Amphetamines		1	1	1	1	1	1		1	1
Cocaine (coke)/Cocaine										
(crack/rock)		1	1	1	1	1	1		1	1
Heroin		1	1	1	1	1	1		1	1
Other (not including										
marijuana or alcohol)		1	1	1	1	1	1		1	1
Current Alcohol use: Alcohol										
causes health problems			^						^	
No		0	0	0	0	0	0		0	0
Yes		1	1	1	1	1	1		1	1
Current Drug use: Drug use										
causes health problems last				0					0	
No		0	0	0	0	0	0		0	0
Yes		1	1	1	1	1	1		1	1
SINGLE ITEMS										
Type of (hard) drugs currently										
used										
Amphetamines		2						1		
Cocaine (coke)/Cocaine		2						4		
(crack/rock)		2						1		
Heroin		2						1		
Other (not including		2						1		
marijuana or alcohol)		2						1		
RESULTS	0.57	0.54	0.52	0.55	0.4	0.57	0.57	0.52	0.52	0.75
AUC	0.57	0.56	0.52	0.55	0.6	0.56	0.57	0.52	0.53	0.65
Cut point							^			
Low-Moderate	-1	-1	-1	-1	-1	-1	0	4	4	4
Moderate-High	10	7	8	6	5	8	10	12	10	8
Population %		2.			2.					
Low	29	36	36	36	36	35	42	65	64	64
Moderate High	51 20	52 11	56 8	47 16	42 22	54 10	52 6	34 1	30 6	24 12

Recidivism %										
Low	44	18	20	25	5	36	9	14	20	3
Moderate	56	26	23	31	10	45	13	15	23	7
High	61	30	26	36	12	50	16	19	26	8
Gender-neutral base rate	34	16	14	19	5	34	16	14	19	5

Mental Health Needs Model

			Any	Felony	Male Violent	Property	Drug	Any	Felony	Female Violent	Property	Dru
	Min	Max	дицу	1 C1011y	v iolení	rroperty	Drug	1111y	1.61011À	v ioieiit	rroperty	Dru
MENTAL HEALTH	-4	10										
Current suicide ideation												
No recent thoughts of suicide			0	0	0	0	0	0	0	0	0	0
Recent serious thoughts of												
suicide			1	1	1	1	1	1	1	1	1	1
Recently planned suicide			1	1	1	1	1	1	1	1	1	1
Recently attempted suicide			1	1	1	1	1	1	1	1	1	1
*Youth is a special education												
student or has a formal diagnosis of a special education												
need: ADHD												
No			0	0	0	0	0	0	0	0	0	0
Yes			1	1	1	1	1	1	1	1	1	1
Currently diagnosed with			-	1	1	1	1	1	1		1	
ADD/ADHD												
No ADD/ADHD diagnosis			0	0	0	0	0	0	0	0	0	0
No ADD/ADHD medication												
currently prescribed			0	0	0	0	0	0	0	0	0	0
Currently taking												
ADD/ADHD medication			-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
ADD/ADHD medication		· <u> </u>	_									
currently prescribed, but not												
taking			1	1	1	1	1	1	1	1	1	1
Mental health treatment												
currently prescribed, excluding												
ADD/ADHD treatment:  No current mental health												
problem			0	0	0	0	0	0	0	0	0	0
No mental health treatment			U	0	0	0	U	0	0	0	0	0
currently prescribed			0	0	0	0	0	0	0	0	0	0
Attending mental health			-					0		•		-
treatment			-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
Mental health treatment												
prescribed but not attending			1	1	1	1	1	1	1	1	1	1
Mental health medication												
currently prescribed excluding												
ADD/ADHD medication												
No current mental health												
problem			0	0	0	0	0	0	0	0	0	0
No mental health medication			0	0	0	0	0	0	0	0	0	^
currently prescribed			0	0	0	0	0	0	0	0	0	0
Currently taking mental health medication			-1	1	1	1	-1	1	-1	1	1	-1
Mental health medication			-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
currently prescribed, but not												
taking			1	1	1	1	1	1	1	1	1	1
**Mental health problems			-	-	-	•	-	•	-	•	•	
currently interfere with working												
with the youth												
No current mental health												
problem			0	0	0	0	0	0	0	0	0	0
Mental health does not												
interfere in work with youth			0	0	0	0	0	0	0	0	0	0
Mental health interferes in												
work with youth			1	1	1	1	1	1	1	1	1	1
SINGLE ITEMS												

No current mental health										
problem(s)			0			0	0	0	0	0
Current mental health										
problem(s)			1			1	1	3	1	1
RESULTS										
AUC	0.5	0.5	0.54	0.52	0.5	0.5	0.53	0.56	0.51	0.51
Cut point										
Low-Moderate	1	1	1	1	1	1	1	1	1	1
Moderate-High	3	4	3	4	6	5	5	6	5	5
Population %										
Low	68	68	68	68	68	61	61	61	61	61
Moderate	25	28	25	28	31	33	33	27	33	33
High	7	3	7	3	1	6	6	12	6	6
Recidivism %										
Low	53	23	20	28	8	42	10	12	20	4
Moderate	55	24	25	32	8	43	12	18	22	4
High	57	26	30	33	12	46	14	20	24	8
Gender-neutral base rate	34	16	14	19	5	34	16	14	19	5

Note: \*This item comes from the School domain, please consider using for a general responsivity factor. \*\*Please consider using for a general responsivity factor.

Attitudes Needs Model

					Male					Female		
			Any	Felony	Violent	Property	Drug	Any	Felony	Violent	Property	Drug
	Min	Max										
BELIEFS	-6	6										
Optimism												
High aspirations: sense of												
purpose, commitment to										•	•	•
better life			-4	-2	-2	-4	-2	-4	-2	-2	-2	-2
Normal aspirations: some								•				
sense of purpose			2	1	1	2	1	2	1	1	1	1
Low aspirations: little sense								•				
of purpose or plans for better			2	1	1	2	1	2	1	1	1	1
Believes nothing matters: he												
or she will be dead before				2	2		2	4	2	2	2	•
long			4	2	2	4	2	4	2	2	2	2
Impulsive; acts before thinking												
Uses self-control: usually										•	•	•
thinks before acting			-4	-2	-2	-4	-2	-4	-2	-2	-2	-2
Uses some self-control:												
sometimes thinks before			2	4	4		4	2	4	4	4	4
acting			2	1	1	2	1	2	1	1	1	1
Impulsive: often acts before			2	4	4		4	2	4	4	4	4
thinking			2	1	1	2	1	2	1	1	1	I
Highly impulsive: usually			4	2	2		2	4	2	2	2	2
acts before thinking			4	2	2	4	2	4	2	2	2	2
Belief in control over antisocial												
behavior:												
Believes can stop anti-social			2	4	4	2	4	2	4	4	4	4
behavior			-2	-1	-1	-2	-1	-2	-1	-1	-1	-1
Somewhat believes can stop			0	0	0	0	0	0	0	0	0	0
anti-social behavior			0	0	0	0	0	0	0	0	0	0
Believes cannot stop anti-			2	4	4	2	4	2	4	1	1	1
social behavior			2	1	1	2	1	2	1	1	1	1
Youth's belief in successfully												
meeting conditions of court												
supervision:  Believes will be successful												
			2	1	1	2	1	2	1	1	1	-1
under supervision Unsure of success under			-2	-1	-1	-2	-1	-2	-1	-1	-1	-1
Unsure of success under supervision			0	0	0	0	0	0	0	0	0	0
Does not believe will be			U	U	U	U	U	U	U	U	U	U
Successful under supervision			2	1	1	2	1	2	1	1	1	1
PERCEPTION OF	-12	13		1	1		1		1	1	1	1

eelings for the victim(s) of criminal behavior										
Has empathy	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Has some empathy	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
Does not have empathy	2	2	2	2	2	2	2	2	2	2
Respect for property of others		<del>_</del>					<del>_</del>			
Respects property of others	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Respects personal, not										
publicly accessible, property	1	1	1	1	1	1	1	1	1	1
Conditional respect for										
personal property	2	2	2	2	2	2	2	2	2	2
No respect for										
personal/public property	3	3	3	3	3	3	3	3	3	3
Respect for authority figures										
Respects most authority	_	_	_		_	_	_	_	_	_
figures	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Does not respect authority	4	4	4	4	4	4	4	4	4	
figures	1	1	1	1	1	1	1	1	1	1
Resents most authority	2	2	2	2	2	2	2	2	2	2
figures	2	2	2	2	2	2	2	2	2	2
Defies/hostile toward most authority figures	3	3	3	3	3	3	3	3	3	3
Attitude toward pro-social	3	3	3	3	3	J	3	3	3	3
ules/conventions in society										
Believes pro-social rules										
apply	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Believes pro-social rules										
sometimes apply	1	1	1	1	1	1	1	1	1	1
Does not believe pro-social										
rules apply	2	2	2	2	2	2	2	2	2	2
Resents or is defiant toward										
rules	3	3	3	3	3	3	3	3	3	3
Accepts responsibility for anti-										
ocial behavior										
Accepts responsibility for										
behavior	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
Hostile interpretation of										
ections and intentions of others										
n a common										
nonconfrontational setting										
Primarily positive view	2	2	2	2	2	2	2	2	2	2
Primarily negative view	1	1	1	1	1	1	1	1	1	1
Primarily hostile view	2	2	2	2	2	2	2	2	2	2
MOTIVATION -1	9									
Primary emotion when										
committing last crime(s) within										
he last 6 months										
Nervous, afraid, worried, uncertain	-5	-5	1	4	-2	-3	2	-2	-2	-2
Excited, or stimulated	5	5	-1 1	-4 4	2	3	-2 2	2	2	2
Confident/bragging	5	5	2	4	2	3	2	4	2	2
Primary purpose for committing	3	3		+				4		
erime(s) within the last 6										
nonths										
Revenge/Power	5	5	16	4	2	3	2	13	2	2
Impulse	5	5	10	4	2	3	2	3	2	2
Money, material gain, drugs	5	5	9	4	2	3	2	1	2	2
Excitement, amusement	5	5	7	4	2	3	2	2	2	2
Status, acceptance, attention	5	5	10	4	2	3	2	4	2	2
Accepts responsibility for anti-				'				'		
ocial behavior										
Accepts own anti-social										
- LOCOPIO OWII MILLI OCCIMI	5	5	2	4	2	3	2	1	2	2
								•		
behavior as okay										
	5	5	6	4	2	3	2	2	2	2
behavior as okay Proud of own anti-social	5	5	6	4	2	3	2	2	2	2

Low-Moderate	-5	5	-1	0	-7	1	3	0	7	0
Moderate-High	14	13	14	15	6	15	13	16	12	10
Population %										
Low	6	26	11	23	5	35	54	32	67	28
Moderate	66	45	65	57	70	52	43	63	24	57
High	28	28	24	20	25	13	3	5	9	15
Recidivism %										
Low	34	16	16	20	7	35	8	10	19	4
Moderate	52	23	21	30	8	45	15	16	26	5
High	64	32	28	40	11	55	19	28	30	6
Gender-neutral base rate	34	16	14	19	5	34	16	14	19	5

Note: \*This item is from the Aggression domain.

\*Control of aggression

			A		Needs Model						
				Male					Female		
	M. M.	Any	Felony	Violent	Property	Drug	Any	Felony	Violent	Property	Drug
AGGRESSION BELIEFS	Min Max										
Tolerance for frustration											
Rarely gets upset/temper tantrums		-2	-2	-2	-2	-2	-2	-2	-2	-2	
Sometimes gets upset/temper		-2	-2	-2	-2	-2	-2	-2	-2	-2	
tantrums		1	1	1	1	1	1	1	1	1	
Often gets upset/temper		-	1	1	1			1	1	1	
tantrums		2	2	2	2	2	2	2	2	2	
Hostile interpretation of actions											
and intentions of others in a											
common non-confrontational											
setting:											
Primarily positive view of											
intentions of others		-2	-2	-2	-2	-2	-2	-2	-2	-2	
Primarily negative view of											
intentions of others		1	1	1	1	1	1	1	1	1	
Primarily hostile view of											
intentions of others		2	2	2	2	2	2	2	2	2	
Belief in yelling and verbal											
aggression to resolve a											
disagreement or conflict											
Believes verbal aggression is											
rarely appropriate		-2	-2	-2	-2	-2	-2	-2	-2	-2	
Believes verbal aggression is											
sometimes appropriate		1	1	1	1	1	1	1	1	1	
Believes verbal aggression is											
often appropriate		2	2	2	2	2	2	2	2	2	
Belief in fighting and physical											
aggression to resolve a											
disagreement or conflict											
Believes physical aggression											
is never appropriate		-2	-2	-2	-2	-2	-2	-2	-2	-2	
Believes physical aggression											
is rarely appropriate		-1	-1	-1	-1	-1	-1	-1	-1	-1	
Believes physical aggression											
is sometimes appropriate		2	2	2	2	2	2	2	2	2	
Believes physical aggression											
is often appropriate		3	3	3	3	3	3	3	3	3	
Reports/evidence of violence											
not included in criminal history											
Violent destruction of											
property		1	1	1	1	1	1	1	1	1	
Violent outbursts, displays of											
temper, uncontrolled anger											
indicating potential for harm		1	1	1	1	1	1	1	1	1	
Deliberately inflicted											
physical pain		1	1	1	1	1	1	1	1	1	
Used/threatened with a											
weapon		1	1	1	1	1	1	1	1	1	
Fire starting reports		1	1	1	1	1	1	1	1	1	
Animal cruelty reports		1	1	1	1	1	1	1	1	1	

Never a problem with										
aggression	-1	-1	-1	-1	-1	-1	-1	-1	-1	
Lacks alternatives to										
aggression	1	1	1	1	1	1	1	1	1	
Rarely uses alternatives to										
aggression	1	1	1	1	1	1	1	1	1	
Sometimes uses alternatives										
to aggression	1	1	1	1	1	1	1	1	1	
Often uses alternatives to										
aggression	1	1	1	1	1	1	1	1	1	
SINGLE ITEMS										
Reports/evidence of sexual										
aggression not included in										
criminal history										
No reports								-1		
Reports of sex for										
power/aggressive sex			1			3			9	5
Reports of child sex/young										
sex partners							3	3		5
Reports of voyeurism										9
Reports of exposure			2				1	2		6
**Primary purpose for										
committing crime(s) within the										
last 6 months										
Anger			15					9		
RESULTS										
AUC	0.58	0.57	0.63	0.57	0.52	0.57	0.57	0.64	0.56	0.51
Cut point										
Low-Moderate	0	-3	1	-3	-5	0	0	0	0	0
Moderate-High	8	8	12	10	10	10	8	12	10	10
Population %										
Low	28	14	28	14	8	24	24	23	24	18
Moderate	60	74	50	83	89	73	62	57	73	78
High	12	12	22	3	3	3	14	20	4	4
Recidivism %										
Low	46	16	14	21	7	35	5	7	16	4
Moderate	56	24	24	31	9	44	12	14	22	4
High	64	30	28	39	10	59	16	24	27	5
Gender-neutral base rate	34	16	14	19	5	34	16	14	19	5

Note: \*This item is from the Skills domain. \*\*This item is from the Attitudes/Behavior domain.

C1-:11a	Needs	Madal
экшѕ	rveeus	Model

	Male					Female						
			Any	Felony	Violent	Property	Drug	Any	Felony	Violent	Property	Drug
	Min	Max										
FUTURE PERCEPTIONS												
Consequential thinking												
Does not understand about												
consequences of actions			1	1	1	1	1	1	1	1	1	1
Understands about												
consequences to actions			-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
Identifies consequences of												
actions			-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Good consequential thinking												
and acting			-3	-3	-3	-3	-3	-3	-3	-3	-3	-3
Goal setting												
Does not set any goals			2	2	2	2	2	2	2	2	2	2
Sets unrealistic goals			1	1	1	1	1	1	1	1	1	1
Sets somewhat realistic goals			-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
Sets realistic goals			-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Problem-solving												
Cannot identify problem												
behaviors			1	1	1	1	1	1	1	1	1	1
Identifies problem behaviors			-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
Thinks of solutions for												
problem behaviors			-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Applies appropriate solutions					•	•			•			<u> </u>
to problem behaviors			-3	-3	-3	-3	-3	-3	-3	-3	-3	-3
Situational perception												

Cannot analyze the situation										
for use of a prosocial skill	1	1	1	1	1	1	1	1	1	1
Does not choose the best pro-										
social skill	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
Chooses best skill but not										
best time and place	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Selects the best time and	2	2	2	2	2	2	2	2	2	2
place for best skill  COPING	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3
Dealing with others										
Lacks basic social skills in										
dealing with others	1	1	1	1	1	1	1	1	1	1
Lacks advanced skills in										
dealing with others	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
Sometimes uses advanced										
social skills in dealing with										
others	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Often uses advanced social										
skills in dealing with others	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3
Dealing with difficult situations										
Lacks skills in dealing with	2	2	2	2	2	2	2	2	2	2
difficult situations	2	2	2	2	2	2	2	2	2	2
Rarely uses skills in dealing with difficult situations	1	1	1	1	1	1	1	1	1	1
Sometimes uses skills in	1	1	1	1	1	1	1	1	1	1
dealing with difficult										
situations	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
Often uses skills in dealing										
with difficult situations	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Dealing with feelings/emotions										
Lacks skills in dealing with										
difficult situations	2	2	2	2	2	2	2	2	2	2
Rarely uses skills in dealing										
with difficult situations	1	1	1	1	1	1	1	1	1	1
Sometimes uses skills in										
dealing with difficult	4	4	4	4	4	4	4	4	4	4
situations	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
Often uses skills in dealing with difficult situations	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
PRECIPITOUS ACTIONS	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Monitoring of internal triggers										
Cannot identify internal										
triggers	1	1		1	1	1	1		1	1
Identifies internal triggers	-1	-1		-1	-1	-1	-1		-1	-1
Actively monitors/controls										
internal triggers	-2	-2		-2	-2	-2	-2		-2	-2
Monitoring of external triggers										
Cannot identify external										
Triggers	1	1		1	1	1	1		1	1
Identifies external triggers	-1	-1		-1	-1	-1	-1		-1	-1
Actively monitors/controls	_	_		_	_	_	_		_	_
external triggers	-2	-2		-2	-2	-2	-2		-2	-2
Control of impulsive behaviors										
that get youth into trouble										
Never a problem with impulsive behavior	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3
Lacks techniques to control	-3	-3	-3	-3	-5	-5	-3	-5	-5	-3
impulsive behavior	1	1	1	1	1	1	1	1	1	1
Knows techniques to control		<u> </u>	-	-	-	•		-	-	
impulsive behavior	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
Uses techniques to control										
impulsive behavior	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
RESULTS										
AUC	0.55	0.55	0.57	0.57	0.53	0.56	0.57	0.6	0.57	0.52
Cut point										
Low-Moderate	-11	-5	-7	-7	-7	-5	-4	-4	-4	-4
Moderate-High	9	10	8	7	6	8	8	8	7	6
Population %										
Low	14	34	23	23	23	32	35	35	35	35

Moderate	73	56	66	63	59	58	90	55	52	48
High	13	10	11	14	18	10	5	9	12	16
Recidivism %										
Low	46	19	17	22	8	36	8	10	17	3
Moderate	55	26	23	31	9	45	13	16	23	4
High	59	27	27	35	10	51	15	24	27	5
Gender-neutral base rate	34	16	14	19	5	34	16	14	19	5