Home Interview with Child
Grade 3/Year 4
Fast Track Project Technical Report
Cynthia Rains
October 4, 2002

Table of Contents

Appendix
SAS Scoring Program

Citations
Instrument
        Conduct Problems Prevention Research Group (CPPRG). (1991). *Home Interview with Child* [On-line]. Available: http://www.fasttrackproject.org/

Report
        Rains, C. (2002). *Home Interview with Child* (Technical Report) [On-line]. Available: http://www.fasttrackproject.org/

        Valente, E. (1994). *Home Interview with Child Technical Report*. Technical Report. Vanderbilt University, Nashville, TN.

Data Sources
Raw: C4B

Scored: HIC4

I. Scale Description
The Home Interview with Child (HIWC) has been administered as part of the summer child interview during the first four years of the Fast Track project. The interviewer shows the child a series of eight drawings that depict two types of social situations and reads a brief description of the situations. The pictures and descriptions concern two types of social situations: 1) **Ambiguous Minor Harm** situations where the respondent is asked to pretend he/she has been bumped or hit with a ball and 2) **Unsuccessful Peer Entry** situations ask the respondent to pretend he/she has approached a group, has attempted to join it, and is either explicitly told he/she cannot join the group, or is ignored by the children in the group.

After the interviewer reads each description, he/she asks the child two questions. The first question asks the respondent why he/she thinks the offenders bumped or ignored him/her, and the second question asks what the respondent would do in response to the offense. The eight first ("ask why") questions measure the respondent's interpretation of the offenders' intentions, while the second eight ("what would you do") questions measure the child's behavioral response contingent on the interpretation. Interviewers code responses to questions 1 and 2 into several categories which will be discussed in the scaling section of this report.

II. Report Sample
These exploratory analyses were conducted with the first cohort on the high-risk control sample (n=155) and on the normative sample (n=387, 463 with overlap) from the fourth year of administration of the study; the treatment subjects were not included in these analyses. 56 students were missing responses for the entire scale. Seventeen students from the control sample (5 from Durham, 1 from Nashville, 3 from Pennsylvania, and 8 from Washington) were missing responses. In addition, 47 students from the normative sample (9 from Durham, 11

from Nashville, 11 from Pennsylvania, and 16 from Washington) were missing responses. Several of the missing responses were from subjects in both the normative and control groups. One student (from Pennsylvania) was missing individual items; this student was omitted from the analyses.

III. Scaling
The HIWC generates two open verbal responses about each of eight situations. In total, there are eight responses where the child interprets an offender's intentions and eight responses where the child describes how he would behave in response to the offense. The interviewer codes responses to the **interpretation** questions into one of three categories: hostile, nonhostile, and don't know. Responses to the eight **behavior** questions were coded into one of six categories: don't know, do nothing, ask why/ask again, make a command, threaten adult punishment or make a threat, or retaliate/be aggressive.

The total number of responses in each category is then calculated, yielding a separate count for each of the three interpretation categories and each of the six behavioral response categories. Each of the eight stories generates an interpretation response and a behavioral response, so the category counts have a possible range from one to eight. Eight **interpretation** responses are coded into three categories, and eight **behavioral** responses are coded into six categories.

The percentage of hostile interpretation responses to the eight stories is calculated by dividing the hostile category count by the total number of responses (the sum of all category counts). This score is called *Percent Hostile Attributions.*

The *Aggressive Behaviors Score* is calculated by adding the codes for the eight story behavioral responses. The score has a possible range of zero to forty, with larger scores indicating a tendency to give more aggressive behavioral responses. Note that, if a single response to any of the eight stories is missing, the Aggressive Behaviors Score is missing for the respondent.

The *Percent Aggressive and Threaten Behaviors* score is calculated by dividing the number of responses coded into either the aggressive or threaten categories by the total number of behavioral responses. Higher scores indicate that aggressive responses were given more frequently than other responses.

Inter-item reliability coefficients, or Cronbach's alphas, for the items that contribute to the *Percent Hostile Attributions, Aggressive Behaviors Score, and Percent Aggressive and Threaten Behaviors* scores are shown in the table below.

Scales	Cronbach's Alpha	
	Normative	**Control**
Percent Hostile Attributions (HIC4PHA)	.70	.71
Percent Aggressive and Threaten Behaviors (HIC4PRP)	.70	.61
Aggressive Behavior Score (HIC4RPS)	.62	.55

The reliability coefficient for two of the scales indicated an acceptable reliability: *Percent Hostile Attributions* (both the control and normative samples) and *Percent Aggressive and Threaten Behaviors* (normative sample), ranging from .70 to .71. Two scales indicated poor reliability, with the reliability coefficients ranging from .55 to .62: *Percent Aggressive and Threaten Behaviors* (control sample) and the *Aggressive Behavior Score* (both the control and normative samples).

IV. Differences between Groups
A series of t-tests indicated no significant differences between the control and normative samples for the scales. Two of the items did show significant differences between the control and normative samples: item C4BHI9 (why didn't the other kids answer) and C4BHI10 (what would you do [about the other kids]). All of the other items did not indicate any significant differences between the samples.

In addition, the mean for the control sample for all three scales was higher than the mean for the normative sample for all three scales. However, the mean for the normative sample was higher than the mean for the control sample for 4 items: C4BHI1 (why do you think Jessica/Todd hit you), C4BHI3 (why do you think Alan/Leah said no), C4BHI10 (what would you do [about the other kids]), and C4BHI11 (why do you think Brett/Wendy bumped you).

Variable	Normative Sample		Control Sample		DF	t Value	Pr > |t|
	Mean	Std Dev	Mean	Std Dev			
HIC4PRP	0.21	0.22	0.24	0.20	405	1.45	.1491
HIC4PHA	0.62	0.25	0.64	0.26	405	0.78	.4330
HIC4RPS	18.69	4.84	19.06	4.65	404	0.73	.4676

V. Recommendations for Use

Analysts should note that the distributions for all three of the scales in both samples were fairly normal. However, some of the distributions for the items were skewed. In the normative sample, the following items were slightly and positively skewed: C4BHI4 (what would you do [about Alan/Leah]), C4BHI8 (what would you do [about Carl/Carolyn]), C4BHI10 (what would you do [about the other kids]), and C4BHI14 (what would you do [about the other kids]). Two items in the normative sample were slightly and negatively skewed: C4BHI7 (why do you think Carl/Carolyn said no) and C4BHI11 (why do you think Brett/Wendy bumped you).

In addition, in the control sample, similar items were slightly and positively skewed: C4BHI8 (what would you do [about Carl/Carolyn]), C4BHI10 (what would you do [about the other kids]), and C4BHI14 (what would you do [about the other kids]). Two items in the control sample were slightly and positively skewed (the same two as in the normative sample): C4BHI7 (why do you think Carl/Carolyn said no) and C4BHI11 (why do you think Brett/Wendy bumped you). Analysts should therefore be aware that several of the items show skewness for both the normative and control samples when they use this measure.

VI. Item and Scale Means and SD's

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                            HIWC Items Control Sample Year 4


Variable  Label                                        N       Mean      Std Dev     Minimum Maximum
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C4BHI1    Why Do You Think Todd/Jessica Hit You       138    1.3550725   0.4802786    1.000  2.000
C4BHI2    What Would You Do?                          138    2.8115942   1.2646267        0  5.000
C4BHI3    Why Do You Think Alan/Leah Said No          138    1.6884058   0.4648322    1.000  2.000
C4BHI4    What Would You Do?                          138    2.0000000   1.1589071        0  5.000
C4BHI5    Why Do You Think John/Lisa Bumped You       138    1.6521739   0.4780156    1.000  2.000
C4BHI6    What Would You Do?                          138    3.1884058   1.4015150        0  5.000
C4BHI7    Why Do You Think Carl/Carolyn Said No       138    1.9057971   0.3170963    1.000  3.000
C4BHI8    What Would You Do?                          138    1.6884058   1.0994406    1.000  5.000
C4BHI9    Why Didn't Other Kids Answer                138    1.5434783   0.4999207    1.000  2.000
C4BHI10   What Would You Do?                          138    1.5217391   0.6530936    1.000  5.000
C4BHI11   Why Do You Think Brett/Wendy Bumped You     138    1.9057971   0.2931749    1.000  2.000
C4BHI12   What Would You Do?                          138    3.2826087   1.3722438        0  5.000
C4BHI13   Why Didn't Other Kids Answer                138    1.5507246   0.5136454    1.000  3.000
C4BHI14   What Would You Do?                          138    1.6304348   0.9595930        0  5.000
C4BHI15   Why Do You Think He/She Bumped You          138    1.5869565   0.5087305    1.000  3.000
C4BHI16   What Would You Do?                          138    2.9347826   1.3892524        0  5.000
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                            HIWC Items Normative Sample Year 4


Variable  Label                                        N       Mean      Std Dev     Minimum Maximum
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C4BHI1      Why Do You Think Todd/Jessica Hit You     340   1.3705882   0.5016371     1.000  3.000
C4BHI2      What Would You Do?                        340   2.8117647   1.1898699         0  5.000
C4BHI3      Why Do You Think Alan/Leah Said No        340   1.7205882   0.4558887     1.000  3.000
C4BHI4      What Would You Do?                        340   1.9264706   1.1839160         0  5.000
C4BHI5      Why Do You Think John/Lisa Bumped You     340   1.6382353   0.4933270     1.000  3.000
C4BHI6      What Would You Do?                        340   2.9941176   1.3370026         0  5.000
C4BHI7      Why Do You Think Carl/Carolyn Said No     340   1.8764706   0.3469707     1.000  3.000
C4BHI8      What Would You Do?                        339   1.6489676   1.1110355     1.000  5.000
C4BHI9      Why Didn't Other Kids Answer              339   1.4365782   0.4966945     1.000  2.000
C4BHI10     What Would You Do?                        339   1.6725664   0.7470947     1.000  5.000
C4BHI11     Why Do You Think Brett/Wendy Bumped You   339   1.9115044   0.3140927     1.000  3.000
C4BHI12     What Would You Do?                        339   3.2035398   1.3200275     1.000  5.000
C4BHI13     Why Didn't Other Kids Answer              339   1.5280236   0.5116506     1.000  3.000
C4BHI14     What Would You Do?                        339   1.6430678   0.8562530         0  5.000
C4BHI15     Why Do You Think He/She Bumped You         339   1.5870206   0.4990609     1.000  3.000
C4BHI16     What Would You Do?                        339   2.8702065   1.3849242         0  5.000
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                       HIWC Individual Subscales Control Sample Year 4

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Variable  Label                          N       Mean       Std Dev      Minimum   Maximum
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HIC4PRP   Pct Ret and Pun actions HIWC Y4   138   0.2409420   0.1995877         0   1.000
HIC4PHA   Pct Hostile attribs HIWC Y4       138   0.6431159   0.2561073         0   1.000
HIC4RPS   Ret and Pun actions score HIWC Y4 138  19.0579710   4.6541217     8.000  36.000
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                      HIWC Individual Subscales Normative Sample Year 4

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Variable  Label                          N       Mean       Std Dev      Minimum   Maximum
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HIC4PRP   Pct Ret and Pun actions HIWC Y4   340   0.2158088   0.2148568         0   1.000
HIC4PHA   Pct Hostile attribs HIWC Y4       340   0.6231618   0.2544702         0   1.000
HIC4RPS   Ret and Pun actions score HIWC Y4 339  18.7787611   4.8462781     8.000  40.000
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VII. Item and Scale Correlations

HIWC Items Control Sample Year 4

Pearson Correlation Coefficients, N = 138 Prob > |r| under H0: Rho=0									
	C4BHI1	**C4BHI2**	**C4BHI3**	**C4BHI4**	**C4BHI5**	**C4BHI6**	**C4BHI7**	**C4BHI8**	**C4BHI9**
C4BHI1 **Why Do You Think Todd/Jessica Hit You**	1.00000	0.29121 0.0005	0.20494 0.0159	0.10491 0.2207	0.31932 0.0001	0.18183 0.0328	0.12538 0.1429	0.10047 0.2410	0.16324 0.0557
C4BHI2 **What Would You Do?**	0.29121 0.0005	1.00000	0.01116 0.8967	0.05977 0.4862	0.26512 0.0017	0.32905 <.0001	0.01002 0.9071	0.09921 0.2470	0.26705 0.0015
C4BHI3 **Why Do You Think Alan/Leah Said No**	0.20494 0.0159	0.01116 0.8967	1.00000	0.16260 0.0567	0.19853 0.0196	0.13559 0.1128	0.09653 0.2600	0.08000 0.3509	0.16866 0.0480
C4BHI4 **What Would You Do?**	0.10491 0.2207	0.05977 0.4862	0.16260 0.0567	1.00000	0.07906 0.3567	0.13931 0.1032	0.05959 0.4875	0.25206 0.0029	0.16378 0.0549
C4BHI5 **Why Do You Think John/Lisa Bumped You**	0.31932 0.0001	0.26512 0.0017	0.19853 0.0196	0.07906 0.3567	1.00000	0.37091 <.0001	0.11934 0.1633	0.05616 0.5130	0.30810 0.0002
C4BHI6 **What Would You Do?**	0.18183 0.0328	0.32905 <.0001	0.13559 0.1128	0.13931 0.1032	0.37091 <.0001	1.00000	-0.02547 0.7668	0.13786 0.1069	0.23825 0.0049
C4BHI7 **Why Do You Think Carl/Carolyn Said No**	0.12538 0.1429	0.01002 0.9071	0.09653 0.2600	0.05959 0.4875	0.11934 0.1633	-0.02547 0.7668	1.00000	0.10362 0.2265	0.23323 0.0059
C4BHI8 **What Would You Do?**	0.10047 0.2410	0.09921 0.2470	0.08000 0.3509	0.25206 0.0029	0.05616 0.5130	0.13786 0.1069	0.10362 0.2265	1.00000	0.15099 0.0771
C4BHI9 **Why Didn't Other Kids Answer**	0.16324 0.0557	0.26705 0.0015	0.16866 0.0480	0.16378 0.0549	0.30810 0.0002	0.23825 0.0049	0.23323 0.0059	0.15099 0.0771	1.00000
C4BHI10 **What Would You Do?**	-0.08297 0.3333	-0.08338 0.3309	-0.18190 0.0327	0.21217 0.0125	-0.23279 0.0060	-0.13210 0.1225	0.13332 0.1190	0.16707 0.0502	-0.20412 0.0163
C4BHI11 **Why Do You Think Brett/Wendy Bumped You**	0.18745 0.0277	0.08959 0.2960	0.10441 0.2230	0.02148 0.8025	0.38950 <.0001	0.13233 0.1218	0.37495 <.0001	0.13472 0.1152	0.20246 0.0172
C4BHI12 **What Would You Do?**	0.11244 0.1892	0.10241 0.2320	0.00174 0.9838	0.15147 0.0762	0.10644 0.2140	0.19604 0.0212	0.04485 0.6014	0.16523 0.0528	0.12560 0.1421
C4BHI13 **Why Didn't Other Kids Answer**	0.11878 0.1653	-0.00765 0.9290	0.29597 0.0004	0.07357 0.3911	0.19130 0.0246	0.13872 0.1047	0.18641 0.0286	0.07343 0.3920	0.33246 <.0001
C4BHI14 **What Would You Do?**	-0.06163 0.4727	0.12265 0.1518	-0.06368 0.4581	0.20347 0.0167	-0.01176 0.8911	0.14984 0.0794	0.07666 0.3715	0.18756 0.0276	0.10221 0.2329
C4BHI15 **Why Do You Think He/She Bumped You**	0.27601 0.0010	0.26391 0.0018	0.16172 0.0581	-0.02476 0.7731	0.48547 <.0001	0.19184 0.0242	0.11902 0.1644	0.12057 0.1589	0.37248 <.0001
C4BHI16 **What Would You Do?**	0.02402 0.7798	0.11760 0.1696	0.13785 0.1069	0.08614 0.3151	0.29534 0.0004	0.19755 0.0202	0.01909 0.8241	0.13474 0.1151	0.29313 0.0005

HIWC Items Control Sample Year 4

Pearson Correlation Coefficients, N = 138 Prob > |r| under H0: Rho=0							
	C4BHI10	**C4BHI11**	**C4BHI12**	**C4BHI13**	**C4BHI14**	**C4BHI15**	**C4BHI16**
C4BHI1 **Why Do You Think Todd/Jessica Hit You**	-0.08297 0.3333	0.18745 0.0277	0.11244 0.1892	0.11878 0.1653	-0.06163 0.4727	0.27601 0.0010	0.02402 0.7798
C4BHI2 **What Would You Do?**	-0.08338 0.3309	0.08959 0.2960	0.10241 0.2320	-0.00765 0.9290	0.12265 0.1518	0.26391 0.0018	0.11760 0.1696
C4BHI3 **Why Do You Think Alan/Leah Said No**	-0.18190 0.0327	0.10441 0.2230	0.00174 0.9838	0.29597 0.0004	-0.06368 0.4581	0.16172 0.0581	0.13785 0.1069
C4BHI4 **What Would You Do?**	0.21217 0.0125	0.02148 0.8025	0.15147 0.0762	0.07357 0.3911	0.20347 0.0167	-0.02476 0.7731	0.08614 0.3151
C4BHI5 **Why Do You Think John/Lisa Bumped You**	-0.23279 0.0060	0.38950 <.0001	0.10644 0.2140	0.19130 0.0246	-0.01176 0.8911	0.48547 <.0001	0.29534 0.0004
C4BHI6 **What Would You Do?**	-0.13210 0.1225	0.13233 0.1218	0.19604 0.0212	0.13872 0.1047	0.14984 0.0794	0.19184 0.0242	0.19755 0.0202
C4BHI7 **Why Do You Think Carl/Carolyn Said No**	0.13332 0.1190	0.37495 <.0001	0.04485 0.6014	0.18641 0.0286	0.07666 0.3715	0.11902 0.1644	0.01909 0.8241
C4BHI8 **What Would You Do?**	0.16707 0.0502	0.13472 0.1152	0.16523 0.0528	0.07343 0.3920	0.18756 0.0276	0.12057 0.1589	0.13474 0.1151
C4BHI9 **Why Didn't Other Kids Answer**	-0.20412 0.0163	0.20246 0.0172	0.12560 0.1421	0.33246 <.0001	0.10221 0.2329	0.37248 <.0001	0.29313 0.0005
C4BHI10 **What Would You Do?**	1.00000	-0.04641 0.5888	0.04604 0.5919	-0.18826 0.0270	0.24003 0.0046	-0.22542 0.0079	0.01364 0.8738
C4BHI11 **Why Do You Think Brett/Wendy Bumped You**	-0.04641 0.5888	1.00000	0.06666 0.4373	0.29856 0.0004	-0.09871 0.2494	0.27555 0.0011	0.12818 0.1341
C4BHI12 **What Would You Do?**	0.04604 0.5919	0.06666 0.4373	1.00000	0.07789 0.3638	0.13533 0.1135	0.10570 0.2173	0.17055 0.0455
C4BHI13 **Why Didn't Other Kids Answer**	-0.18826 0.0270	0.29856 0.0004	0.07789 0.3638	1.00000	-0.05795 0.4996	0.26233 0.0019	0.10185 0.2346
C4BHI14 **What Would You Do?**	0.24003 0.0046	-0.09871 0.2494	0.13533 0.1135	-0.05795 0.4996	1.00000	-0.03088 0.7192	0.05297 0.5372
C4BHI15 **Why Do You Think He/She Bumped You**	-0.22542 0.0079	0.27555 0.0011	0.10570 0.2173	0.26233 0.0019	-0.03088 0.7192	1.00000	0.37472 <.0001
C4BHI16 **What Would You Do?**	0.01364 0.8738	0.12818 0.1341	0.17055 0.0455	0.10185 0.2346	0.05297 0.5372	0.37472 <.0001	1.00000

HIWC Items Normative Sample Year 4

Pearson Correlation Coefficients, N = 339 **Prob > |r| under H0: Rho=0**									
	C4BHI1	**C4BHI2**	**C4BHI3**	**C4BHI4**	**C4BHI5**	**C4BHI6**	**C4BHI7**	**C4BHI8**	**C4BHI9**
C4BHI1 **Why Do You Think Todd/Jessica Hit You**	1.00000	0.45246 <.0001	0.27525 <.0001	0.06428 0.2378	0.25527 <.0001	0.14702 0.0067	0.07822 0.1507	0.05957 0.2740	0.26095 <.0001
C4BHI2 **What Would You Do?**	0.45246 <.0001	1.00000	0.11622 0.0324	0.05566 0.3068	0.17810 0.0010	0.30978 <.0001	0.12297 0.0236	0.02210 0.6851	0.19761 0.0003
C4BHI3 **Why Do You Think Alan/Leah Said No**	0.27525 <.0001	0.11622 0.0324	1.00000	0.12192 0.0248	0.19486 0.0003	0.08587 0.1145	0.11627 0.0323	0.09134 0.0931	0.20201 0.0002
C4BHI4 **What Would You Do?**	0.06428 0.2378	0.05566 0.3068	0.12192 0.0248	1.00000	0.11840 0.0293	0.10441 0.0548	0.02176 0.6898	0.24632 <.0001	0.05771 0.2893
C4BHI5 **Why Do You Think John/Lisa Bumped You**	0.25527 <.0001	0.17810 0.0010	0.19486 0.0003	0.11840 0.0293	1.00000	0.29902 <.0001	0.15353 0.0046	0.08199 0.1319	0.23281 <.0001
C4BHI6 **What Would You Do?**	0.14702 0.0067	0.30978 <.0001	0.08587 0.1145	0.10441 0.0548	0.29902 <.0001	1.00000	0.04377 0.4218	0.10479 0.0539	0.22010 <.0001
C4BHI7 **Why Do You Think Carl/Carolyn Said No**	0.07822 0.1507	0.12297 0.0236	0.11627 0.0323	0.02176 0.6898	0.15353 0.0046	0.04377 0.4218	1.00000	0.00197 0.9712	0.19436 0.0003
C4BHI8 **What Would You Do?**	0.05957 0.2740	0.02210 0.6851	0.09134 0.0931	0.24632 <.0001	0.08199 0.1319	0.10479 0.0539	0.00197 0.9712	1.00000	0.02655 0.6261
C4BHI9 **Why Didn't Other Kids Answer**	0.26095 <.0001	0.19761 0.0003	0.20201 0.0002	0.05771 0.2893	0.23281 <.0001	0.22010 <.0001	0.19436 0.0003	0.02655 0.6261	1.00000
C4BHI10 **What Would You Do?**	-0.13209 0.0149	-0.06528 0.2307	-0.07903 0.1465	0.22111 <.0001	-0.07189 0.1867	0.01383 0.7997	-0.05417 0.3200	0.30666 <.0001	-0.12390 0.0225
C4BHI11 **Why Do You Think Brett/Wendy Bumped You**	0.17171 0.0015	0.09037 0.0967	0.19802 0.0002	0.06263 0.2502	0.17591 0.0011	0.12611 0.0202	0.06190 0.2557	0.06332 0.2449	0.13460 0.0131
C4BHI12 **What Would You Do?**	0.13107 0.0157	0.26882 <.0001	0.02621 0.6306	0.16250 0.0027	0.13567 0.0124	0.33372 <.0001	0.11321 0.0372	0.09929 0.0679	0.11225 0.0389
C4BHI13 **Why Didn't Other Kids Answer**	0.20123 0.0002	0.12269 0.0239	0.24283 <.0001	0.06674 0.2203	0.21611 <.0001	0.18813 0.0005	0.21932 <.0001	0.03037 0.5774	0.33590 <.0001
C4BHI14 **What Would You Do?**	-0.02083 0.7023	0.11175 0.0397	-0.15075 0.0054	0.29878 <.0001	-0.01785 0.7433	0.10755 0.0479	-0.02975 0.5852	0.13536 0.0126	-0.00817 0.8809
C4BHI15 **Why Do You Think He/She Bumped You**	0.24843 <.0001	0.25381 <.0001	0.23083 <.0001	0.08051 0.1390	0.29611 <.0001	0.17541 0.0012	0.11356 0.0366	0.06859 0.2077	0.31177 <.0001
C4BHI16 **What Would You Do?**	0.09088 0.0948	0.26160 <.0001	0.07804 0.1516	0.12062 0.0264	0.23912 <.0001	0.42932 <.0001	0.10176 0.0613	0.08182 0.1327	0.18584 0.0006

HIWC Items Normative Sample Year 4

	C4BHI10	C4BHI11	C4BHI12	C4BHI13	C4BHI14	C4BHI15	C4BHI16
Pearson Correlation Coefficients, N = 339 **Prob > |r| under H0: Rho=0**							
C4BHI1 **Why Do You Think Todd/Jessica Hit You**	-0.13209 0.0149	0.17171 0.0015	0.13107 0.0157	0.20123 0.0002	-0.02083 0.7023	0.24843 <.0001	0.09088 0.0948
C4BHI2 **What Would You Do?**	-0.06528 0.2307	0.09037 0.0967	0.26882 <.0001	0.12269 0.0239	0.11175 0.0397	0.25381 <.0001	0.26160 <.0001
C4BHI3 **Why Do You Think Alan/Leah Said No**	-0.07903 0.1465	0.19802 0.0002	0.02621 0.6306	0.24283 <.0001	-0.15075 0.0054	0.23083 <.0001	0.07804 0.1516
C4BHI4 **What Would You Do?**	0.22111 <.0001	0.06263 0.2502	0.16250 0.0027	0.06674 0.2203	0.29878 <.0001	0.08051 0.1390	0.12062 0.0264
C4BHI5 **Why Do You Think John/Lisa Bumped You**	-0.07189 0.1867	0.17591 0.0011	0.13567 0.0124	0.21611 <.0001	-0.01785 0.7433	0.29611 <.0001	0.23912 <.0001
C4BHI6 **What Would You Do?**	0.01383 0.7997	0.12611 0.0202	0.33372 <.0001	0.18813 0.0005	0.10755 0.0479	0.17541 0.0012	0.42932 <.0001
C4BHI7 **Why Do You Think Carl/Carolyn Said No**	-0.05417 0.3200	0.06190 0.2557	0.11321 0.0372	0.21932 <.0001	-0.02975 0.5852	0.11356 0.0366	0.10176 0.0613
C4BHI8 **What Would You Do?**	0.30666 <.0001	0.06332 0.2449	0.09929 0.0679	0.03037 0.5774	0.13536 0.0126	0.06859 0.2077	0.08182 0.1327
C4BHI9 **Why Didn't Other Kids Answer**	-0.12390 0.0225	0.13460 0.0131	0.11225 0.0389	0.33590 <.0001	-0.00817 0.8809	0.31177 <.0001	0.18584 0.0006
C4BHI10 **What Would You Do?**	1.00000	-0.02298 0.6733	0.06178 0.2566	-0.13459 0.0131	0.31626 <.0001	-0.10189 0.0609	0.01313 0.8096
C4BHI11 **Why Do You Think Brett/Wendy Bumped You**	-0.02298 0.6733	1.00000	0.18629 0.0006	0.19958 0.0002	-0.08479 0.1192	0.18139 0.0008	0.11635 0.0322
C4BHI12 **What Would You Do?**	0.06178 0.2566	0.18629 0.0006	1.00000	0.04191 0.4419	0.13776 0.0111	0.08306 0.1269	0.35597 <.0001
C4BHI13 **Why Didn't Other Kids Answer**	-0.13459 0.0131	0.19958 0.0002	0.04191 0.4419	1.00000	-0.12905 0.0174	0.26560 <.0001	0.19304 0.0004
C4BHI14 **What Would You Do?**	0.31626 <.0001	-0.08479 0.1192	0.13776 0.0111	-0.12905 0.0174	1.00000	-0.04134 0.4481	-0.01922 0.7243
C4BHI15 **Why Do You Think He/She Bumped You**	-0.10189 0.0609	0.18139 0.0008	0.08306 0.1269	0.26560 <.0001	-0.04134 0.4481	1.00000	0.34171 <.0001
C4BHI16 **What Would You Do?**	0.01313 0.8096	0.11635 0.0322	0.35597 <.0001	0.19304 0.0004	-0.01922 0.7243	0.34171 <.0001	1.00000

HIWC Percent Hostile Attributions Control Sample Year 4

Pearson Correlation Coefficients, N = 138 Prob > |r| under H0: Rho=0								
	C4BHI1x	C4BHI3x	C4BHI5x	C4BHI7x	C4BHI9x	C4BHI11x	C4BHI13x	C4BHI15x
C4BHI1x	1.00000	0.20494 0.0159	0.31932 0.0001	0.16182 0.0579	0.16324 0.0557	0.18745 0.0277	0.08273 0.3347	0.30454 0.0003
C4BHI3x	0.20494 0.0159	1.00000	0.19853 0.0196	0.06666 0.4373	0.16866 0.0480	0.10441 0.2230	0.28419 0.0007	0.20924 0.0138
C4BHI5x	0.31932 0.0001	0.19853 0.0196	1.00000	0.18490 0.0299	0.30810 0.0002	0.38950 <.0001	0.17510 0.0400	0.47601 <.0001
C4BHI7x	0.16182 0.0579	0.06666 0.4373	0.18490 0.0299	1.00000	0.28755 0.0006	0.36558 <.0001	0.14208 0.0964	0.16880 0.0478
C4BHI9x	0.16324 0.0557	0.16866 0.0480	0.30810 0.0002	0.28755 0.0006	1.00000	0.20246 0.0172	0.31455 0.0002	0.35479 <.0001
C4BHI11x	0.18745 0.0277	0.10441 0.2230	0.38950 <.0001	0.36558 <.0001	0.20246 0.0172	1.00000	0.29703 0.0004	0.27288 0.0012
C4BHI13x	0.08273 0.3347	0.28419 0.0007	0.17510 0.0400	0.14208 0.0964	0.31455 0.0002	0.29703 0.0004	1.00000	0.22433 0.0082
C4BHI15x	0.30454 0.0003	0.20924 0.0138	0.47601 <.0001	0.16880 0.0478	0.35479 <.0001	0.27288 0.0012	0.22433 0.0082	1.00000

HIWC Percent Hostile Attributions Normative Sample Year 4

Pearson Correlation Coefficients, N = 339 Prob > |r| under H0: Rho=0								
	C4BHI1x	C4BHI3x	C4BHI5x	C4BHI7x	C4BHI9x	C4BHI11x	C4BHI13x	C4BHI15x
C4BHI1x	1.00000	0.27757 <.0001	0.33956 <.0001	0.09516 0.0802	0.28122 <.0001	0.17506 0.0012	0.22284 <.0001	0.26588 <.0001
C4BHI3x	0.27757 <.0001	1.00000	0.22889 <.0001	0.13032 0.0164	0.21514 <.0001	0.24785 <.0001	0.24912 <.0001	0.24300 <.0001
C4BHI5x	0.33956 <.0001	0.22889 <.0001	1.00000	0.12303 0.0235	0.23396 <.0001	0.21040 <.0001	0.20819 0.0001	0.29967 <.0001
C4BHI7x	0.09516 0.0802	0.13032 0.0164	0.12303 0.0235	1.00000	0.22721 <.0001	0.08709 0.1095	0.25417 <.0001	0.11752 0.0305
C4BHI9x	0.28122 <.0001	0.21514 <.0001	0.23396 <.0001	0.22721 <.0001	1.00000	0.14898 0.0060	0.31657 <.0001	0.30131 <.0001
C4BHI11x	0.17506 0.0012	0.24785 <.0001	0.21040 <.0001	0.08709 0.1095	0.14898 0.0060	1.00000	0.22195 <.0001	0.17311 0.0014
C4BHI13x	0.22284 <.0001	0.24912 <.0001	0.20819 0.0001	0.25417 <.0001	0.31657 <.0001	0.22195 <.0001	1.00000	0.24292 <.0001
C4BHI15x	0.26588 <.0001	0.24300 <.0001	0.29967 <.0001	0.11752 0.0305	0.30131 <.0001	0.17311 0.0014	0.24292 <.0001	1.00000

HIWC Percent Aggressive and Threaten Behaviors Control Sample Year 4

Pearson Correlation Coefficients, N = 138 Prob > |r| under H0: Rho=0								
	C4BHI2x	**C4BHI4x**	**C4BHI6x**	**C4BHI8x**	**C4BHI10x**	**C4BHI12x**	**C4BHI14x**	**C4BHI16x**
C4BHI2x	1.00000	0.00145 0.9865	0.38781 <.0001	0.11066 0.1963	0.16343 0.0554	0.33612 <.0001	0.17352 0.0418	0.26675 0.0016
C4BHI4x	0.00145 0.9865	1.00000	0.14104 0.0989	0.20286 0.0170	0.36090 <.0001	0.17282 0.0427	0.25045 0.0030	-0.01364 0.8739
C4BHI6x	0.38781 <.0001	0.14104 0.0989	1.00000	0.12355 0.1488	0.01595 0.8527	0.27120 0.0013	0.19695 0.0206	0.25312 0.0027
C4BHI8x	0.11066 0.1963	0.20286 0.0170	0.12355 0.1488	1.00000	0.21354 0.0119	0.19045 0.0253	0.07269 0.3969	-0.02370 0.7826
C4BHI10x	0.16343 0.0554	0.36090 <.0001	0.01595 0.8527	0.21354 0.0119	1.00000	0.11443 0.1814	0.24829 0.0033	0.15595 0.0678
C4BHI12x	0.33612 <.0001	0.17282 0.0427	0.27120 0.0013	0.19045 0.0253	0.11443 0.1814	1.00000	0.08581 0.3169	0.31434 0.0002
C4BHI14x	0.17352 0.0418	0.25045 0.0030	0.19695 0.0206	0.07269 0.3969	0.24829 0.0033	0.08581 0.3169	1.00000	0.09284 0.2788
C4BHI16x	0.26675 0.0016	-0.01364 0.8739	0.25312 0.0027	-0.02370 0.7826	0.15595 0.0678	0.31434 0.0002	0.09284 0.2788	1.00000

HIWC Percent Aggressive and Threaten Behaviors Normative Sample Year 4

Pearson Correlation Coefficients, N = 339 Prob > |r| under H0: Rho=0								
	C4BHI2x	**C4BHI4x**	**C4BHI6x**	**C4BHI8x**	**C4BHI10x**	**C4BHI12x**	**C4BHI14x**	**C4BHI16x**
C4BHI2x	1.00000	0.11759 0.0304	0.46959 <.0001	0.10348 0.0570	0.12070 0.0263	0.38391 <.0001	0.18970 0.0004	0.40318 <.0001
C4BHI4x	0.11759 0.0304	1.00000	0.12167 0.0251	0.21990 <.0001	0.33775 <.0001	0.22426 <.0001	0.26027 <.0001	0.12167 0.0251
C4BHI6x	0.46959 <.0001	0.12167 0.0251	1.00000	0.04333 0.4264	0.15162 0.0051	0.40608 <.0001	0.17975 0.0009	0.52822 <.0001
C4BHI8x	0.10348 0.0570	0.21990 <.0001	0.04333 0.4264	1.00000	0.38367 <.0001	0.06322 0.2457	0.18444 0.0006	0.04333 0.4264
C4BHI10x	0.12070 0.0263	0.33775 <.0001	0.15162 0.0051	0.38367 <.0001	1.00000	0.10217 0.0602	0.54034 <.0001	0.11295 0.0377
C4BHI12x	0.38391 <.0001	0.22426 <.0001	0.40608 <.0001	0.06322 0.2457	0.10217 0.0602	1.00000	0.15091 0.0054	0.39362 <.0001
C4BHI14x	0.18970 0.0004	0.26027 <.0001	0.17975 0.0009	0.18444 0.0006	0.54034 <.0001	0.15091 0.0054	1.00000	0.05024 0.3565
C4BHI16x	0.40318 <.0001	0.12167 0.0251	0.52822 <.0001	0.04333 0.4264	0.11295 0.0377	0.39362 <.0001	0.05024 0.3565	1.00000

HIWC Aggressive Behaviors Score Control Sample Year 4

Pearson Correlation Coefficients, N = 138 Prob > |r| under H0: Rho=0								
	C4BHI2	C4BHI4	C4BHI6	C4BHI8	C4BHI10	C4BHI12	C4BHI14	C4BHI16
C4BHI2 **What Would You Do?**	1.00000	0.05977 0.4862	0.32905 <.0001	0.09921 0.2470	-0.08338 0.3309	0.10241 0.2320	0.12265 0.1518	0.11760 0.1696
C4BHI4 **What Would You Do?**	0.05977 0.4862	1.00000	0.13931 0.1032	0.25206 0.0029	0.21217 0.0125	0.15147 0.0762	0.20347 0.0167	0.08614 0.3151
C4BHI6 **What Would You Do?**	0.32905 <.0001	0.13931 0.1032	1.00000	0.13786 0.1069	-0.13210 0.1225	0.19604 0.0212	0.14984 0.0794	0.19755 0.0202
C4BHI8 **What Would You Do?**	0.09921 0.2470	0.25206 0.0029	0.13786 0.1069	1.00000	0.16707 0.0502	0.16523 0.0528	0.18756 0.0276	0.13474 0.1151
C4BHI10 **What Would You Do?**	-0.08338 0.3309	0.21217 0.0125	-0.13210 0.1225	0.16707 0.0502	1.00000	0.04604 0.5919	0.24003 0.0046	0.01364 0.8738
C4BHI12 **What Would You Do?**	0.10241 0.2320	0.15147 0.0762	0.19604 0.0212	0.16523 0.0528	0.04604 0.5919	1.00000	0.13533 0.1135	0.17055 0.0455
C4BHI14 **What Would You Do?**	0.12265 0.1518	0.20347 0.0167	0.14984 0.0794	0.18756 0.0276	0.24003 0.0046	0.13533 0.1135	1.00000	0.05297 0.5372
C4BHI16 **What Would You Do?**	0.11760 0.1696	0.08614 0.3151	0.19755 0.0202	0.13474 0.1151	0.01364 0.8738	0.17055 0.0455	0.05297 0.5372	1.00000

HIWC Aggressive Behaviors Score Normative Sample Year 4

Pearson Correlation Coefficients, N = 339 Prob > |r| under H0: Rho=0								
	C4BHI2	C4BHI4	C4BHI6	C4BHI8	C4BHI10	C4BHI12	C4BHI14	C4BHI16
C4BHI2 **What Would You Do?**	1.00000	0.05566 0.3068	0.30978 <.0001	0.02210 0.6851	-0.06528 0.2307	0.26882 <.0001	0.11175 0.0397	0.26160 <.0001
C4BHI4 **What Would You Do?**	0.05566 0.3068	1.00000	0.10441 0.0548	0.24632 <.0001	0.22111 <.0001	0.16250 0.0027	0.29878 <.0001	0.12062 0.0264
C4BHI6 **What Would You Do?**	0.30978 <.0001	0.10441 0.0548	1.00000	0.10479 0.0539	0.01383 0.7997	0.33372 <.0001	0.10755 0.0479	0.42932 <.0001
C4BHI8 **What Would You Do?**	0.02210 0.6851	0.24632 <.0001	0.10479 0.0539	1.00000	0.30666 <.0001	0.09929 0.0679	0.13536 0.0126	0.08182 0.1327
C4BHI10 **What Would You Do?**	-0.06528 0.2307	0.22111 <.0001	0.01383 0.7997	0.30666 <.0001	1.00000	0.06178 0.2566	0.31626 <.0001	0.01313 0.8096
C4BHI12 **What Would You Do?**	0.26882 <.0001	0.16250 0.0027	0.33372 <.0001	0.09929 0.0679	0.06178 0.2566	1.00000	0.13776 0.0111	0.35597 <.0001
C4BHI14 **What Would You Do?**	0.11175 0.0397	0.29878 <.0001	0.10755 0.0479	0.13536 0.0126	0.31626 <.0001	0.13776 0.0111	1.00000	-0.01922 0.7243
C4BHI16 **What Would You Do?**	0.26160 <.0001	0.12062 0.0264	0.42932 <.0001	0.08182 0.1327	0.01313 0.8096	0.35597 <.0001	-0.01922 0.7243	1.00000

Appendix – SAS Scoring Program
(See Instrument Summary)