Woodcock-Johnson-Revised
Kindergarten/Year 1
Fast Track Project Technical Report
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December 5, 2003

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Appendix
SAS Scoring program

Citation
Instrument
        Woodcock, R. W., & Johnson, M. B. (1989). *The Woodcock-Johnson Psycho-Educational Battery Revised*. Chicago: Riverside Publishing Co.

        Woodcock, R. W., & Mather, N. (1989). WJ-R Tests of Cognitive Ability -- Standard and Supplemental Batteries: Examiner's Manual. In R. W. Woodcock & M. B. Johnson, *Woodcock-Johnson Psycho-Educational Battery--Revised*. Chicago: Riverside Publishing Co.

Reports
        Rains, C. (2003). *Woodcock-Johnson-Revised* (Fast Track Project Technical Report). Available from the Fast Track Project website: http://www.fasttrackproject.org

        Hurley, S. (2000). *Woodcock-Johnson Tests of Achievement: Year 5* (Fast Track Project Technical Report). Available from the Fast Track Project website: http://www.fasttrackproject.org

        Malone, P. (1999). *Woodcock-Johnson-R Letter-Word Identification Treatment/Control Differences in Year 1* (Fast Track Project Technical Report). Durham, NC: Duke University, Fast Track Data Center.

        Rose, M. & Miller-Johnson, S. (1997). *Woodcock-Johnson Tests of Achievement: Passage Comprehension Subtest* (Fast Track Project Technical Report). Durham, NC: Duke University.

        Miller-Johnson, S. & Maumary-Gremaud, A. (1995). *Woodcock-Johnson Tests of Achievement: Calculation and Letter-Word Identification Subtests* (Fast Track Project Technical Report). Durham, NC: Duke University.

Data Sources
Raw: C1A_wj

Scored: WJR1

I.   Scale Description

The Woodcock-Johnson Psycho-Educational Battery – Revised (WJ-R) is a commonly used measure of children's achievement measuring various aspects of scholastic ability. The Fast Track Project administered two subtests, Calculation and Letter-Word Identification, to cohort 1 during the first two years of the study; cohorts 2 and 3 were administered these two subtests during year 1 only. In years 5

and 6, three subtests were administered during the study: Calculation, Letter-Word Identification, and Passage Comprehension.

The Calculation and Letter-Word Identification subtests used in year 1 are described as follows:

(1) <u>Calculation:</u> This subtest measures the child's skill in performing mathematical calculations such as addition, subtraction, multiplication and division. The calculations are presented in a traditional problem format in a separate response booklet. The items are arranged in order of difficulty, with the easiest items presented first and the most difficult items presented last. There are a total of 58 items in the Calculation subtest.

(2) <u>Letter-Word Identification:</u> The first 5 items of this subtest involve symbolic learning, or the ability to match a pictorial representation of a word with an actual picture of the object. The remaining 52 items assess the child's reading skills in identifying isolated letters and words that are presented in large type on the subject's side of the test book. The items are arranged in order of difficulty, with the easiest items presented first and the most difficult items presented last.

II.   Report Sample

These exploratory analyses were conducted on the first cohort on the high-risk sample (n = 310) and the normative sample (n = 387, N = 618 with overlap) from the first year of the study. No records were missing the entire measure.

III.   Scaling

As noted above, during year 1, only the calculation and letter-word identification subtests were administered. For both subtests, a summary score was computed which was simply the sum of all of the items for the particular subtest. A separate score was derived for each of the subtests since distinct aspects of scholastic ability were being assessed.

Cronbach's alphas were calculated for each subscale and are shown in the table below:

Subscales	Cronbach's Alpha	
	High-Risk Sample	**Normative Sample**
Calculation (WJR1SCA)	.80	.80
Letter-Word Identification (WJR1SLW)	.86	.88

Each of the subtests showed a high level of internal consistency for both the high-risk and the normative samples.

IV.   Differences between Groups

There was a significant difference noted between the normative and high-risk sample for the *Letter-Word Identification Subtest* such that the normative sample scored higher than the high-risk sample on the subtest. The difference between the normative sample and the high-risk sample on the *Calculation Subtest* approached significance (p=.059) with the normative sample scoring higher.

Woodcock-Johnson-R—Subtests, Normative vs. High-Risk
The TTEST Procedure

Variable	Normative Sample		High-Risk Sample		DF	t Value	Pr > |t|
	Mean	Std Dev	Mean	Std Dev			
Calculation (WJR1SCA)	2.61	2.76	2.20	2.68	614	-1.89	0.0592
Letter-Word Identification (WJR1SLW)	13.83	4.68	12.41	4.21	616	-3.97	<.0001

Woodcock-Johnson-R—Subtests, Control vs. Intervention
The TTEST Procedure

Variable	Control Sample		Intervention Sample		DF	t Value	Pr > |t|
	Mean	Std Dev	Mean	Std Dev			
Calculation (WJR1SCA)	2.10	2.57	2.29	2.79	308	-0.61	0.5397
Letter-Word Identification (WJR1SLW)	12.04	3.41	12.78	4.86	308	-1.56	0.1208

V.   **Recommendations for Use**

Both subtests were positively skewed in the normative sample and the high-risk sample. Floor effects were found for the *Calculation Subtest* for the normative sample (37% scored a zero) and for the high-risk sample (42% scored a zero). The *Letter-Word Identification Subtest* showed positive kurtosis for both the high-risk sample and the normative sample.

It is recommended to use the total scores (summary scores) for each subtest, given the commonly accepted scoring procedures for Woodcock-Johnson subtests.

Analysts should also note that earlier analyses (Malone, 1999) found a possible relationship between Treatment/Control status and year 1 reading scores for all three cohorts for the Woodcock-Johnson-R measure. According to Malone:

> Among high-risk participants, Treatment vs. Control status is related to Year 1 (baseline) reading ability, as measured by the Woodcock-Johnson-R Letter-Word Identification score, such that Treatment participants scored higher on the W-J than Control participants. This difference appears to be limited to the Seattle site, and does not appear to be a function of gender, cohort, or race/ethnicity; rather, it appears to be the result of chance factors in the random assignment of schools to treatment status.

Analysts should realize that, although Malone's report focused on all three cohorts for years 1, his findings also hold true to year 1, cohort 1, as well. For both subtests, the treatment (intervention) sample showed a non-significantly higher mean score than the control sample (see table above for the Control vs. Intervention Subtests).

VI. Item and Scale Means and SDs

Woodcock-Johnson R Normative Items

Simple Statistics							
Variable	**N**	**Mean**	**Std Dev**	**Sum**	**Minimum**	**Maximum**	**Label**
C1ALW1	387	0.89922	0.30142	348.00000	0	1.00000	L-W Item 1: "chair"
C1ALW2	387	0.91214	0.28345	353.00000	0	1.00000	L-W Item 2: "book"
C1ALW3	387	0.94057	0.23674	364.00000	0	1.00000	L-W Item 3: "dog"
C1ALW4	386	0.91969	0.27213	355.00000	0	1.00000	L-W Item 4: "cat"
C1ALW5	387	0.91990	0.27180	356.00000	0	1.00000	L-W Item 5: "O"
C1ALW6	387	0.91214	0.28345	353.00000	0	1.00000	L-W Item 6: "S"
C1ALW7	387	0.96899	0.17356	375.00000	0	1.00000	L-W Item 7: "A"
C1ALW8	387	0.90956	0.28718	352.00000	0	1.00000	L-W Item 8: "z"
C1ALW9	387	0.82687	0.37885	320.00000	0	1.00000	L-W Item 9: "G"
C1ALW10	386	0.91710	0.27609	354.00000	0	1.00000	L-W Item 10: "D"
C1ALW11	387	0.87339	0.33297	338.00000	0	1.00000	L-W Item 11: "m"
C1ALW12	387	0.78295	0.41277	303.00000	0	1.00000	L-W Item 12: "h"
C1ALW13	387	0.74419	0.43688	288.00000	0	1.00000	L-W Item 13: "j"
C1ALW14	387	0.36176	0.48113	140.00000	0	1.00000	L-W Item 14: "to"
C1ALW15	387	0.26098	0.43974	101.00000	0	1.00000	L-W Item 15: "in"
C1ALW16	387	0.33592	0.47292	130.00000	0	1.00000	L-W Item 16: "dog"
C1ALW17	387	0.14729	0.35485	57.00000	0	1.00000	L-W Item 17: "as"
C1ALW18	386	0.11917	0.32441	46.00000	0	1.00000	L-W Item 18: "get"
C1ALW19	386	0.11917	0.32441	46.00000	0	1.00000	L-W Item 19: "was"
C1ALW20	387	0.11111	0.31468	43.00000	0	1.00000	L-W Item 20: "his"
C1ALW21	387	0.09561	0.29443	37.00000	0	1.00000	L-W Item 21: "when"
C1ALW22	387	0.03876	0.19327	15.00000	0	1.00000	L-W Item 22: "fixed"
C1ALW23	387	0.05685	0.23185	22.00000	0	1.00000	L-W Item 23: "must"
C1ALW24	387	0.05685	0.23185	22.00000	0	1.00000	L-W Item 24: "about"
C1ALW25	387	0.04651	0.21086	18.00000	0	1.00000	L-W Item 25: "part"
C1ALW26	387	0.02842	0.16640	11.00000	0	1.00000	L-W Item 26: "knew"
C1ALW27	387	0.03101	0.17356	12.00000	0	1.00000	L-W Item 27: "because"
C1ALW28	387	0.03101	0.17356	12.00000	0	1.00000	L-W Item 28: "faster"
C1ALW29	386	0.01295	0.11322	5.00000	0	1.00000	L-W Item 29: "whole"
C1ALW30	386	0.01554	0.12386	6.00000	0	1.00000	L-W Item 30: "shoulder"
C1ALW31	387	0.00517	0.07180	2.00000	0	1.00000	L-W Item 31: "island"
C1ALW32	387	0.00258	0.05083	1.00000	0	1.00000	L-W Item 32: "correctly"
C1ALW33	387	0.00517	0.07180	2.00000	0	1.00000	L-W Item 33: "since"
C1ALW34	387	0.01034	0.10127	4.00000	0	1.00000	L-W Item 34: "personal"
C1ALW35	387	0	0	0	0	0	L-W Item 35: "experiment"
C1ALW36	386	0.00259	0.05090	1.00000	0	1.00000	L-W Item 36: "distance"
C1ALW37	387	0.00258	0.05083	1.00000	0	1.00000	L-W Item 37: "bounties"

							Simple Statistics
Variable	**N**	**Mean**	**Std Dev**	**Sum**	**Minimum**	**Maximum**	**Label**
C1ALW38	387	0.00258	0.05083	1.00000	0	1.00000	L-W Item 38: "process"
C1ALW39	387	0.00258	0.05083	1.00000	0	1.00000	L-W Item 39: "doubtful"
C1ALW40	386	0.00518	0.07189	2.00000	0	1.00000	L-W Item 40: "moustache"
C1ALW41	387	0	0	0	0	0	L-W Item 41: "cologne"
C1ALW42	387	0	0	0	0	0	L-W Item 42: "hesitating"
C1ALW43	387	0	0	0	0	0	L-W Item 43: "masculine"
C1ALW44	387	0	0	0	0	0	L-W Item 44: "sufficient"
C1ALW45	387	0	0	0	0	0	L-W Item 45: "domesticated"
C1ALW46	387	0.00517	0.07180	2.00000	0	1.00000	L-W Item 46: "preyed"
C1ALW47	387	0.00258	0.05083	1.00000	0	1.00000	L-W Item 47: "therapeutic"
C1ALW48	387	0	0	0	0	0	L-W Item 48: "significance"
C1ALW49	386	0.00259	0.05090	1.00000	0	1.00000	L-W Item 49: "bouquet"
C1ALW50	384	0	0	0	0	0	L-W Item 50: "apparatus"
C1ALW51	386	0	0	0	0	0	L-W Item 51: "diacritical"
C1ALW52	386	0	0	0	0	0	L-W Item 52: "debutante"
C1ALW53	387	0	0	0	0	0	L-W Item 53: "trivialities"
C1ALW54	387	0	0	0	0	0	L-W Item 54: "expostulate"
C1ALW55	387	0	0	0	0	0	L-W Item 55: "stochastic"
C1ALW56	387	0	0	0	0	0	L-W Item 56: "ubiquitous"
C1ALW57	358	0	0	0	0	0	L-W Item 57: "enceinte"
C1ACA1	385	0.48052	0.50027	185.00000	0	1.00000	CALC Item 1
C1ACA2	385	0.40519	0.49157	156.00000	0	1.00000	CALC Item 2
C1ACA3	385	0.47792	0.50016	184.00000	0	1.00000	CALC Item 3
C1ACA4	385	0.36623	0.48240	141.00000	0	1.00000	CALC Item 4
C1ACA5	385	0.32208	0.46788	124.00000	0	1.00000	CALC Item 5
C1ACA6	385	0.07792	0.26840	30.00000	0	1.00000	CALC Item 6
C1ACA7	385	0.06234	0.24208	24.00000	0	1.00000	CALC Item 7
C1ACA8	384	0.09115	0.28819	35.00000	0	1.00000	CALC Item 8
C1ACA9	385	0.06753	0.25127	26.00000	0	1.00000	CALC Item 9
C1ACA10	385	0.05195	0.22221	20.00000	0	1.00000	CALC Item 10
C1ACA11	385	0.00519	0.07198	2.00000	0	1.00000	CALC Item 11
C1ACA12	383	0.00522	0.07217	2.00000	0	1.00000	CALC Item 12
C1ACA13	384	0	0	0	0	0	CALC Item 13
C1ACA14	384	0	0	0	0	0	CALC Item 14
C1ACA15	384	0	0	0	0	0	CALC Item 15
C1ACA16	384	0	0	0	0	0	CALC Item 16
C1ACA17	384	0	0	0	0	0	CALC Item 17
C1ACA18	384	0	0	0	0	0	CALC Item 18
C1ACA19	384	0	0	0	0	0	CALC Item 19

Simple Statistics							
Variable	**N**	**Mean**	**Std Dev**	**Sum**	**Minimum**	**Maximum**	**Label**
C1ACA20	384	0	0	0	0	0	CALC Item 20
C1ACA21	384	0	0	0	0	0	CALC Item 21
C1ACA22	384	0	0	0	0	0	CALC Item 22
C1ACA23	384	0	0	0	0	0	CALC Item 23
C1ACA24	384	0	0	0	0	0	CALC Item 24
C1ACA25	384	0	0	0	0	0	CALC Item 25
C1ACA26	384	0	0	0	0	0	CALC Item 26
C1ACA27	384	0	0	0	0	0	CALC Item 27
C1ACA28	384	0	0	0	0	0	CALC Item 28
C1ACA29	382	0	0	0	0	0	CALC Item 29
C1ACA30	384	0	0	0	0	0	CALC Item 30
C1ACA31	384	0	0	0	0	0	CALC Item 31
C1ACA32	384	0	0	0	0	0	CALC Item 32
C1ACA33	384	0	0	0	0	0	CALC Item 33
C1ACA34	384	0	0	0	0	0	CALC Item 34
C1ACA35	384	0	0	0	0	0	CALC Item 35
C1ACA36	384	0	0	0	0	0	CALC Item 36
C1ACA37	383	0	0	0	0	0	CALC Item 37
C1ACA38	383	0	0	0	0	0	CALC Item 38
C1ACA39	384	0.00260	0.05103	1.00000	0	1.00000	CALC Item 39
C1ACA40	384	0.00260	0.05103	1.00000	0	1.00000	CALC Item 40
C1ACA41	384	0.00260	0.05103	1.00000	0	1.00000	CALC Item 41
C1ACA42	384	0.00260	0.05103	1.00000	0	1.00000	CALC Item 42
C1ACA43	384	0.00260	0.05103	1.00000	0	1.00000	CALC Item 43
C1ACA44	384	0.00260	0.05103	1.00000	0	1.00000	CALC Item 44
C1ACA45	384	0.00260	0.05103	1.00000	0	1.00000	CALC Item 45
C1ACA46	384	0.00260	0.05103	1.00000	0	1.00000	CALC Item 46
C1ACA47	384	0.00260	0.05103	1.00000	0	1.00000	CALC Item 47
C1ACA48	384	0.00260	0.05103	1.00000	0	1.00000	CALC Item 48
C1ACA49	383	0.00261	0.05110	1.00000	0	1.00000	CALC Item 49
C1ACA50	384	0.00260	0.05103	1.00000	0	1.00000	CALC Item 50
C1ACA51	384	0.00260	0.05103	1.00000	0	1.00000	CALC Item 51
C1ACA52	372	0.00269	0.05185	1.00000	0	1.00000	CALC Item 52
C1ACA53	372	0.00269	0.05185	1.00000	0	1.00000	CALC Item 53
C1ACA54	372	0.00269	0.05185	1.00000	0	1.00000	CALC Item 54
C1ACA55	372	0.00269	0.05185	1.00000	0	1.00000	CALC Item 55
C1ACA56	372	0.00269	0.05185	1.00000	0	1.00000	CALC Item 56
C1ACA57	372	0.00269	0.05185	1.00000	0	1.00000	CALC Item 57
C1ACA58	372	0.00269	0.05185	1.00000	0	1.00000	CALC Item 58

Woodcock-Johnson R Control Items

							Simple Statistics
Variable	N	Mean	Std Dev	Sum	Minimum	Maximum	Label
C1ALW1	155	0.92903	0.25760	144.00000	0	1.00000	L-W Item 1: "chair"
C1ALW2	155	0.91613	0.27809	142.00000	0	1.00000	L-W Item 2: "book"
C1ALW3	155	0.96129	0.19353	149.00000	0	1.00000	L-W Item 3: "dog"
C1ALW4	155	0.89032	0.31350	138.00000	0	1.00000	L-W Item 4: "cat"
C1ALW5	155	0.90323	0.29661	140.00000	0	1.00000	L-W Item 5: "O"
C1ALW6	155	0.87742	0.32902	136.00000	0	1.00000	L-W Item 6: "S"
C1ALW7	155	0.96129	0.19353	149.00000	0	1.00000	L-W Item 7: "A"
C1ALW8	155	0.86452	0.34335	134.00000	0	1.00000	L-W Item 8: "z"
C1ALW9	155	0.74194	0.43899	115.00000	0	1.00000	L-W Item 9: "G"
C1ALW10	155	0.85161	0.35664	132.00000	0	1.00000	L-W Item 10: "D"
C1ALW11	155	0.78710	0.41069	122.00000	0	1.00000	L-W Item 11: "m"
C1ALW12	155	0.68387	0.46647	106.00000	0	1.00000	L-W Item 12: "h"
C1ALW13	155	0.58710	0.49395	91.00000	0	1.00000	L-W Item 13: "j"
C1ALW14	155	0.27097	0.44590	42.00000	0	1.00000	L-W Item 14: "to"
C1ALW15	155	0.17419	0.38051	27.00000	0	1.00000	L-W Item 15: "in"
C1ALW16	155	0.24516	0.43158	38.00000	0	1.00000	L-W Item 16: "dog"
C1ALW17	155	0.09677	0.29661	15.00000	0	1.00000	L-W Item 17: "as"
C1ALW18	154	0.08442	0.27892	13.00000	0	1.00000	L-W Item 18: "get"
C1ALW19	154	0.07792	0.26892	12.00000	0	1.00000	L-W Item 19: "was"
C1ALW20	155	0.05161	0.22196	8.00000	0	1.00000	L-W Item 20: "his"
C1ALW21	155	0.04516	0.20833	7.00000	0	1.00000	L-W Item 21: "when"
C1ALW22	155	0.00645	0.08032	1.00000	0	1.00000	L-W Item 22: "fixed"
C1ALW23	155	0.02581	0.15907	4.00000	0	1.00000	L-W Item 23: "must"
C1ALW24	155	0.00645	0.08032	1.00000	0	1.00000	L-W Item 24: "about"
C1ALW25	155	0	0	0	0	0	L-W Item 25: "part"
C1ALW26	155	0	0	0	0	0	L-W Item 26: "knew"
C1ALW27	155	0	0	0	0	0	L-W Item 27: "because"
C1ALW28	155	0	0	0	0	0	L-W Item 28: "faster"
C1ALW29	154	0	0	0	0	0	L-W Item 29: "whole"
C1ALW30	155	0	0	0	0	0	L-W Item 30: "shoulder"
C1ALW31	155	0	0	0	0	0	L-W Item 31: "island"
C1ALW32	155	0	0	0	0	0	L-W Item 32: "correctly"
C1ALW33	155	0	0	0	0	0	L-W Item 33: "since"
C1ALW34	155	0	0	0	0	0	L-W Item 34: "personal"
C1ALW35	155	0	0	0	0	0	L-W Item 35: "experiment"
C1ALW36	155	0	0	0	0	0	L-W Item 36: "distance"
C1ALW37	155	0	0	0	0	0	L-W Item 37: "bounties"

Simple Statistics							
Variable	**N**	**Mean**	**Std Dev**	**Sum**	**Minimum**	**Maximum**	**Label**
C1ALW38	155	0	0	0	0	0	L-W Item 38: "process"
C1ALW39	155	0	0	0	0	0	L-W Item 39: "doubtful"
C1ALW40	155	0	0	0	0	0	L-W Item 40: "moustache"
C1ALW41	155	0	0	0	0	0	L-W Item 41: "cologne"
C1ALW42	154	0	0	0	0	0	L-W Item 42: "hesitating"
C1ALW43	155	0	0	0	0	0	L-W Item 43: "masculine"
C1ALW44	155	0	0	0	0	0	L-W Item 44: "sufficient"
C1ALW45	155	0	0	0	0	0	L-W Item 45: "domesticated"
C1ALW46	155	0	0	0	0	0	L-W Item 46: "preyed"
C1ALW47	155	0	0	0	0	0	L-W Item 47: "therapeutic"
C1ALW48	155	0	0	0	0	0	L-W Item 48: "significance"
C1ALW49	155	0	0	0	0	0	L-W Item 49: "bouquet"
C1ALW50	155	0	0	0	0	0	L-W Item 50: "apparatus"
C1ALW51	155	0	0	0	0	0	L-W Item 51: "diacritical"
C1ALW52	155	0	0	0	0	0	L-W Item 52: "debutante"
C1ALW53	155	0	0	0	0	0	L-W Item 53: "trivialities"
C1ALW54	155	0	0	0	0	0	L-W Item 54: "expostulate"
C1ALW55	155	0	0	0	0	0	L-W Item 55: "stochastic"
C1ALW56	155	0	0	0	0	0	L-W Item 56: "ubiquitous"
C1ALW57	142	0	0	0	0	0	L-W Item 57: "enceinte"
C1ACA1	155	0.42581	0.49607	66.00000	0	1.00000	CALC Item 1
C1ACA2	155	0.32258	0.46898	50.00000	0	1.00000	CALC Item 2
C1ACA3	155	0.40000	0.49149	62.00000	0	1.00000	CALC Item 3
C1ACA4	155	0.32258	0.46898	50.00000	0	1.00000	CALC Item 4
C1ACA5	155	0.27742	0.44918	43.00000	0	1.00000	CALC Item 5
C1ACA6	155	0.07097	0.25760	11.00000	0	1.00000	CALC Item 6
C1ACA7	155	0.05806	0.23462	9.00000	0	1.00000	CALC Item 7
C1ACA8	155	0.11613	0.32142	18.00000	0	1.00000	CALC Item 8
C1ACA9	155	0.05806	0.23462	9.00000	0	1.00000	CALC Item 9
C1ACA10	155	0.03871	0.19353	6.00000	0	1.00000	CALC Item 10
C1ACA11	155	0.01290	0.11322	2.00000	0	1.00000	CALC Item 11
C1ACA12	154	0	0	0	0	0	CALC Item 12
C1ACA13	155	0	0	0	0	0	CALC Item 13
C1ACA14	155	0	0	0	0	0	CALC Item 14
C1ACA15	155	0	0	0	0	0	CALC Item 15
C1ACA16	155	0	0	0	0	0	CALC Item 16
C1ACA17	155	0	0	0	0	0	CALC Item 17
C1ACA18	155	0	0	0	0	0	CALC Item 18
C1ACA19	155	0	0	0	0	0	CALC Item 19

Simple Statistics							
Variable	N	Mean	Std Dev	Sum	Minimum	Maximum	Label
C1ACA20	155	0	0	0	0	0	CALC Item 20
C1ACA21	155	0	0	0	0	0	CALC Item 21
C1ACA22	155	0	0	0	0	0	CALC Item 22
C1ACA23	155	0	0	0	0	0	CALC Item 23
C1ACA24	155	0	0	0	0	0	CALC Item 24
C1ACA25	155	0	0	0	0	0	CALC Item 25
C1ACA26	155	0	0	0	0	0	CALC Item 26
C1ACA27	155	0	0	0	0	0	CALC Item 27
C1ACA28	155	0	0	0	0	0	CALC Item 28
C1ACA29	155	0	0	0	0	0	CALC Item 29
C1ACA30	155	0	0	0	0	0	CALC Item 30
C1ACA31	155	0	0	0	0	0	CALC Item 31
C1ACA32	155	0	0	0	0	0	CALC Item 32
C1ACA33	155	0	0	0	0	0	CALC Item 33
C1ACA34	155	0	0	0	0	0	CALC Item 34
C1ACA35	155	0	0	0	0	0	CALC Item 35
C1ACA36	155	0	0	0	0	0	CALC Item 36
C1ACA37	154	0	0	0	0	0	CALC Item 37
C1ACA38	154	0	0	0	0	0	CALC Item 38
C1ACA39	155	0	0	0	0	0	CALC Item 39
C1ACA40	155	0	0	0	0	0	CALC Item 40
C1ACA41	155	0	0	0	0	0	CALC Item 41
C1ACA42	155	0	0	0	0	0	CALC Item 42
C1ACA43	155	0	0	0	0	0	CALC Item 43
C1ACA44	155	0	0	0	0	0	CALC Item 44
C1ACA45	155	0	0	0	0	0	CALC Item 45
C1ACA46	155	0	0	0	0	0	CALC Item 46
C1ACA47	155	0	0	0	0	0	CALC Item 47
C1ACA48	155	0	0	0	0	0	CALC Item 48
C1ACA49	155	0	0	0	0	0	CALC Item 49
C1ACA50	155	0	0	0	0	0	CALC Item 50
C1ACA51	155	0	0	0	0	0	CALC Item 51
C1ACA52	149	0	0	0	0	0	CALC Item 52
C1ACA53	149	0	0	0	0	0	CALC Item 53
C1ACA54	149	0	0	0	0	0	CALC Item 54
C1ACA55	149	0	0	0	0	0	CALC Item 55
C1ACA56	149	0	0	0	0	0	CALC Item 56
C1ACA57	149	0	0	0	0	0	CALC Item 57
C1ACA58	149	0	0	0	0	0	CALC Item 58

Woodcock-Johnson R Intervention Items

				Simple Statistics			
Variable	N	Mean	Std Dev	Sum	Minimum	Maximum	Label
C1ALW1	155	0.93548	0.24647	145.00000	0	1.00000	L-W Item 1: "chair"
C1ALW2	155	0.96129	0.19353	149.00000	0	1.00000	L-W Item 2: "book"
C1ALW3	155	0.94194	0.23462	146.00000	0	1.00000	L-W Item 3: "dog"
C1ALW4	155	0.90968	0.28757	141.00000	0	1.00000	L-W Item 4: "cat"
C1ALW5	155	0.84516	0.36292	131.00000	0	1.00000	L-W Item 5: "O"
C1ALW6	155	0.87742	0.32902	136.00000	0	1.00000	L-W Item 6: "S"
C1ALW7	155	0.92903	0.25760	144.00000	0	1.00000	L-W Item 7: "A"
C1ALW8	155	0.82581	0.38051	128.00000	0	1.00000	L-W Item 8: "z"
C1ALW9	154	0.79870	0.40228	123.00000	0	1.00000	L-W Item 9: "G"
C1ALW10	155	0.86452	0.34335	134.00000	0	1.00000	L-W Item 10: "D"
C1ALW11	155	0.85161	0.35664	132.00000	0	1.00000	L-W Item 11: "m"
C1ALW12	155	0.77419	0.41947	120.00000	0	1.00000	L-W Item 12: "h"
C1ALW13	155	0.69032	0.46386	107.00000	0	1.00000	L-W Item 13: "j"
C1ALW14	155	0.25806	0.43899	40.00000	0	1.00000	L-W Item 14: "to"
C1ALW15	155	0.23871	0.42768	37.00000	0	1.00000	L-W Item 15: "in"
C1ALW16	155	0.24516	0.43158	38.00000	0	1.00000	L-W Item 16: "dog"
C1ALW17	155	0.10323	0.30524	16.00000	0	1.00000	L-W Item 17: "as"
C1ALW18	155	0.12258	0.32902	19.00000	0	1.00000	L-W Item 18: "get"
C1ALW19	155	0.10323	0.30524	16.00000	0	1.00000	L-W Item 19: "was"
C1ALW20	155	0.10323	0.30524	16.00000	0	1.00000	L-W Item 20: "his"
C1ALW21	155	0.07742	0.26812	12.00000	0	1.00000	L-W Item 21: "when"
C1ALW22	155	0.01935	0.13822	3.00000	0	1.00000	L-W Item 22: "fixed"
C1ALW23	155	0.08387	0.27809	13.00000	0	1.00000	L-W Item 23: "must"
C1ALW24	155	0.02581	0.15907	4.00000	0	1.00000	L-W Item 24: "about"
C1ALW25	155	0.02581	0.15907	4.00000	0	1.00000	L-W Item 25: "part"
C1ALW26	155	0.01290	0.11322	2.00000	0	1.00000	L-W Item 26: "knew"
C1ALW27	155	0.02581	0.15907	4.00000	0	1.00000	L-W Item 27: "because"
C1ALW28	155	0.01935	0.13822	3.00000	0	1.00000	L-W Item 28: "faster"
C1ALW29	155	0.00645	0.08032	1.00000	0	1.00000	L-W Item 29: "whole"
C1ALW30	155	0.01290	0.11322	2.00000	0	1.00000	L-W Item 30: "shoulder"
C1ALW31	155	0.00645	0.08032	1.00000	0	1.00000	L-W Item 31: "island"
C1ALW32	155	0.00645	0.08032	1.00000	0	1.00000	L-W Item 32: "correctly"
C1ALW33	155	0.00645	0.08032	1.00000	0	1.00000	L-W Item 33: "since"
C1ALW34	155	0.01290	0.11322	2.00000	0	1.00000	L-W Item 34: "personal"
C1ALW35	155	0.01290	0.11322	2.00000	0	1.00000	L-W Item 35: "experiment"
C1ALW36	155	0.01290	0.11322	2.00000	0	1.00000	L-W Item 36: "distance"
C1ALW37	155	0.00645	0.08032	1.00000	0	1.00000	L-W Item 37: "bounties"

Simple Statistics							
Variable	**N**	**Mean**	**Std Dev**	**Sum**	**Minimum**	**Maximum**	**Label**
C1ALW38	155	0.00645	0.08032	1.00000	0	1.00000	L-W Item 38: "process"
C1ALW39	155	0	0	0	0	0	L-W Item 39: "doubtful"
C1ALW40	155	0	0	0	0	0	L-W Item 40: "moustache"
C1ALW41	155	0.00645	0.08032	1.00000	0	1.00000	L-W Item 41: "cologne"
C1ALW42	155	0.00645	0.08032	1.00000	0	1.00000	L-W Item 42: "hesitating"
C1ALW43	155	0	0	0	0	0	L-W Item 43: "masculine"
C1ALW44	155	0	0	0	0	0	L-W Item 44: "sufficient"
C1ALW45	153	0	0	0	0	0	L-W Item 45: "domesticated"
C1ALW46	155	0.01290	0.11322	2.00000	0	1.00000	L-W Item 46: "preyed"
C1ALW47	155	0	0	0	0	0	L-W Item 47: "therapeutic"
C1ALW48	155	0	0	0	0	0	L-W Item 48: "significance"
C1ALW49	154	0	0	0	0	0	L-W Item 49: "bouquet"
C1ALW50	155	0	0	0	0	0	L-W Item 50: "apparatus"
C1ALW51	155	0	0	0	0	0	L-W Item 51: "diacritical"
C1ALW52	155	0	0	0	0	0	L-W Item 52: "debutante"
C1ALW53	155	0	0	0	0	0	L-W Item 53: "trivialities"
C1ALW54	155	0	0	0	0	0	L-W Item 54: "expostulate"
C1ALW55	154	0	0	0	0	0	L-W Item 55: "stochastic"
C1ALW56	155	0	0	0	0	0	L-W Item 56: "ubiquitous"
C1ALW57	154	0	0	0	0	0	L-W Item 57: "enceinte"
C1ACA1	155	0.38710	0.48866	60.00000	0	1.00000	CALC Item 1
C1ACA2	154	0.38312	0.48773	59.00000	0	1.00000	CALC Item 2
C1ACA3	154	0.44805	0.49892	69.00000	0	1.00000	CALC Item 3
C1ACA4	154	0.32468	0.46978	50.00000	0	1.00000	CALC Item 4
C1ACA5	154	0.27273	0.44681	42.00000	0	1.00000	CALC Item 5
C1ACA6	154	0.11688	0.32233	18.00000	0	1.00000	CALC Item 6
C1ACA7	154	0.10390	0.30612	16.00000	0	1.00000	CALC Item 7
C1ACA8	154	0.12338	0.32994	19.00000	0	1.00000	CALC Item 8
C1ACA9	154	0.11039	0.31440	17.00000	0	1.00000	CALC Item 9
C1ACA10	154	0.02597	0.15958	4.00000	0	1.00000	CALC Item 10
C1ACA11	154	0	0	0	0	0	CALC Item 11
C1ACA12	154	0.00649	0.08058	1.00000	0	1.00000	CALC Item 12
C1ACA13	154	0	0	0	0	0	CALC Item 13
C1ACA14	154	0	0	0	0	0	CALC Item 14
C1ACA15	154	0	0	0	0	0	CALC Item 15
C1ACA16	154	0	0	0	0	0	CALC Item 16
C1ACA17	154	0	0	0	0	0	CALC Item 17
C1ACA18	154	0	0	0	0	0	CALC Item 18
C1ACA19	154	0	0	0	0	0	CALC Item 19

							Simple Statistics						
Variable	N	Mean	Std Dev	Sum	Minimum	Maximum	Label
C1ACA20	154	0	0	0	0	0	CALC Item 20
C1ACA21	154	0	0	0	0	0	CALC Item 21
C1ACA22	154	0	0	0	0	0	CALC Item 22
C1ACA23	154	0	0	0	0	0	CALC Item 23
C1ACA24	154	0	0	0	0	0	CALC Item 24
C1ACA25	154	0	0	0	0	0	CALC Item 25
C1ACA26	154	0	0	0	0	0	CALC Item 26
C1ACA27	154	0	0	0	0	0	CALC Item 27
C1ACA28	154	0	0	0	0	0	CALC Item 28
C1ACA29	153	0	0	0	0	0	CALC Item 29
C1ACA30	154	0	0	0	0	0	CALC Item 30
C1ACA31	154	0	0	0	0	0	CALC Item 31
C1ACA32	154	0	0	0	0	0	CALC Item 32
C1ACA33	154	0	0	0	0	0	CALC Item 33
C1ACA34	154	0	0	0	0	0	CALC Item 34
C1ACA35	154	0	0	0	0	0	CALC Item 35
C1ACA36	154	0	0	0	0	0	CALC Item 36
C1ACA37	154	0	0	0	0	0	CALC Item 37
C1ACA38	154	0	0	0	0	0	CALC Item 38
C1ACA39	154	0	0	0	0	0	CALC Item 39
C1ACA40	154	0	0	0	0	0	CALC Item 40
C1ACA41	154	0	0	0	0	0	CALC Item 41
C1ACA42	154	0	0	0	0	0	CALC Item 42
C1ACA43	154	0	0	0	0	0	CALC Item 43
C1ACA44	153	0	0	0	0	0	CALC Item 44
C1ACA45	154	0	0	0	0	0	CALC Item 45
C1ACA46	154	0	0	0	0	0	CALC Item 46
C1ACA47	154	0	0	0	0	0	CALC Item 47
C1ACA48	153	0	0	0	0	0	CALC Item 48
C1ACA49	152	0	0	0	0	0	CALC Item 49
C1ACA50	154	0	0	0	0	0	CALC Item 50
C1ACA51	154	0	0	0	0	0	CALC Item 51
C1ACA52	145	0	0	0	0	0	CALC Item 52
C1ACA53	145	0	0	0	0	0	CALC Item 53
C1ACA54	145	0	0	0	0	0	CALC Item 54
C1ACA55	145	0	0	0	0	0	CALC Item 55
C1ACA56	145	0	0	0	0	0	CALC Item 56
C1ACA57	145	0	0	0	0	0	CALC Item 57
C1ACA58	145	0	0	0	0	0	CALC Item 58

Woodcock-Johnson R Normative Subtests

Variable	Label	N	Mean	Std Dev	Minimum	Maximum
WJR1SCA	W-J Calculation Summary Score Y1	385	2.465	2.741	0.000	20.000
WJR1SLW	W-J L-W Identification Summary Score Y1	387	13.439	4.512	3.000	41.000

Woodcock-Johnson R Control Subtests

Variable	Label	N	Mean	Std Dev	Minimum	Maximum
WJR1SCA	W-J Calculation Summary Score Y1	155	2.103	2.569	0.000	10.000
WJR1SLW	W-J L-W Identification Summary Score Y1	155	12.039	3.407	4.000	22.000

Woodcock-Johnson R Intervention Subtests

Variable	Label	N	Mean	Std Dev	Minimum	Maximum
WJR1SCA	W-J Calculation Summary Score Y1	155	2.290	2.791	0.000	10.000
WJR1SLW	W-J L-W Identification Summary Score Y1	155	12.781	4.862	2.000	38.000

VII.   <u>**Scale Correlations**</u>

Woodcock-Johnson-R Full Sample Subtests Correlation

Pearson Correlation Coefficients Prob > |r| under H0: Rho=0 Number of Observations		
	WJR1SCA	**WJR1SLW**
WJR1SCA **W-J Calculation Summary Score Y1**	1.00000 616	0.46757 <.0001 616
WJR1SLW **W-J L-W Identification Summary Score Y1**	0.46757 <.0001 616	1.00000 618