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AUTHOR Lloyd, Dee Norman
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ABSTRACT

Students whose reading achievement was average, below average, and above average were compared on measures of educational and occupational background, family characteristics, and elementary school performance prior to grade 6. Results were analyzed separately by sex, race (Negro and Caucasian), both sexes and races combined, and upper and lower socioeconomic and mental ability levels. Findings which achieved statistical significance included: (1) differences among achievement groups in parents' marital status were significant only in the Caucasian male sample; (2) parents' education and occupation had a greater relationship to reading achievement for girls than for boys and particularly for girls with higher IQ scores; (3) among those retained in a grade, differences among achievement groups were significant only in the Negro female sample; (4) the difference between achievement groups on socioeconomic level of father was significant for Negro females; and (5) the decrease in performance from grade 3 to grade 6 was significantly greater for underachievers than for average and overachievers. Supplemental Data on High and Low IQ and SES Groups in Four Race-by-Sex Samples included. See Part One [ED 034 660] and Part Two [CS000078].
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**Reading Achievement and Its
Relationship to Academic Performance**

Part III:

**Relationships of Family Background and Third Grade
Performance to Sixth Grade Reading Achievement**

Dee Norman Lloyd

**Laboratory Paper #29
Personal and Social Organization Section
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Summary

Underachievers, average achievers, and overachievers in reading, classified according to the discrepancy between 6th grade reading score and reading level predicted from a 6th grade test of mental ability, were compared on measures of educational and occupational background, family characteristics, and elementary school performance prior to the 6th grade. Data were analyzed separately for sex and race (Negro and white) samples and the four samples combined. In addition, relationships in the combined samples were compared across upper and lower levels of socio-economic status (SES) and upper and lower levels of mental ability (6th grade IQ scores above and below 100).

In the combined samples, parents of underachievers had a significantly lower mean educational level, occupational level, and SES level (a weighted combination of father's educational and occupational level) than parents of average or overachievers. The relationship of these variables to reading achievement, however, was small, and differences were not significant in all samples and stratifications.

The differences among achievement groups in educational and occupational background were most significant in the upper SES levels, indicating that families at successively higher educational levels (college graduates and above) produce the fewest underachievers.

There was also an interaction of educational and occupational background, sex, IQ, and reading achievement. Parents' education and

occupation had a greater relationship to reading achievement (or influence on, if causality is assumed) for girls than for boys, and particularly for girls with higher IQ scores.

Differences among the achievement groups on other measures of family characteristics were either not significant or showed negligible relationships to reading achievement. Underachievers had a higher mean number of siblings than average achievers; however, this difference was only significant among white males in the lower IQ range. Difference among achievement groups in marital status of parents was also found to be significant only in the white male sample. White male underachievers in lower SES and lower IQ ranges came from broken homes more often than did average and overachievers. Among white males in the upper SES and upper IQ ranges, differences were not significant.

In the Negro male and Negro female samples, there were very few significant differences on SES and family characteristic measures. In the Negro male sample, there were no significant differences on any of these measures. The difference between achievement groups on educational and occupational levels of father for Negro females approached significance; the difference on SES level was significant. In part, failure to find significant differences in the Negro samples could be attributed to the restricted variance on some measures. In the Negro samples, number of siblings was not linearly related to reading achievement. Among both Negro males and Negro

females, the lowest percentage of underachievers was found in small families (0 to 2 siblings) and large families (6 or more siblings). In contrast to the pattern in the white male and white female samples, the highest percentage of average and overachievers in the Negro samples came from large families.

Measures of earlier elementary school performance consisted of 3rd grade reading and IQ test scores and whether or not subjects had been retained in grade during elementary school. These data were available only for those subjects in the 6th grade cohort who were in the school system in earlier grades.

Although underachievers were retained more often in elementary school grades than average or overachievers, the difference among achievement groups was only significant in the Negro female sample.

Comparison of achievement groups on 3rd and 6th grade reading performance produced five findings: (1) underachievers were reading at a significantly lower level than average or overachievers in the 3rd grade, (2) there was a decrease from the 3rd to the 6th grade in reading relative to grade placement for underachievers and average achievers, (3) overachievers, on the other hand, maintained the same superior level of performance from grades 3 to 6, (4) the decrease in performance from grades 3 to 6 was significantly greater for underachievers than for average and overachievers, (5) the degree to which scores changed from grades 3 to 6 was related to reading level (grade placement) in the 3rd grade. The findings indicate that normative level of achievement and relative

level of achievement tap different aspects of reading ability and have different implications for reading achievement over time. Both should be considered in the diagnosis of reading difficulties and planning of reading programs.

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Relationships of Family Background and Third Grade
Performance to Sixth Grade Reading Achievement

Dee Norman Lloyd

Research findings have generally shown that measures of socio-economic level are positively related to academic performance (Lavin, D. E., 1965). In studies where level of intelligence has been controlled, socio-economic variables have still differentiated underachievers from average or overachievers (Vane, J. R., 1966). From the review of the literature, however, most studies have used a matching procedure to equate groups on IQ level or socio-economic status, and the focus of investigation has been largely on underachievers in the upper range of mental ability. The procedure in the present study provided an assessment of reading achievement over the entire range of mental ability. Three achievement groups (underachievers, average achievers, and overachievers) were formed on the basis of discrepancy between obtained reading level and reading level predicted by a test of general mental ability. These groups were compared on measures of parents' education and occupation, family characteristics, and measures of elementary school performance. Since the achievement groups did not differ significantly in their mean IQ scores in the 6th grade, the relationships of these variables to reading achievement would indicate relationships over and above those accounted for by mental ability. More specific relationships across achievement groups were also

investigated by stratifying the sample into high and low IQ and SES levels, and comparisons were also made within the four race-by-sex samples in the study population.

Method

Subjects

Subjects were 3651 6th grade students who had both the CTMM IQ score and C.I. Reading score that were used to define achievement groups (see Part I). Analyses were performed for this sample (combined samples) and for the four separate race and sex samples. The individual race and sex samples consisted of 1624 white males (WM), 1600 white females (WF), 231 Negro males (NM), and 196 Negro females (NF). Analyses were also performed with the combined samples stratified (1) into high and low SES levels and (2) into high and low IQ score levels. High and low SES groups consisted of 1487 and 1971 subjects. High and low IQ groups consisted of 2157 and 1494 subjects, respectively.

Variables

The independent variables in this analysis were measures of occupational level, educational level, and marital status of parents, number of siblings, elementary school progression, and performance on standardized tests in the 3rd grade. All measures of parent and family characteristics reflected the status that was recorded in school records when the subject was in the 6th grade.

Educational levels of the subject's father and mother were coded into three categories: elementary, high school, and beyond high school. These three levels were coded 6, 4, and 1, respectively, in order to compute the Hollingshead Two-Factor Index of Social Position (Hollingshead, 1957). The occupational level of the father consisted of a seven-category scale adapted from the occupational scale of the Index of Social Position (Hollingshead and Redlich, 1958). A summary of the seven occupational levels in this scale is as follows:

- Level 1: Higher executives, proprietors, and professionals
- Level 2: Lesser executives, proprietors, and professionals
- Level 3: Administrative, small business owners, minor and semi-professionals
- Level 4: Clerical, sales, and technicians
- Level 5: Skilled trades
- Level 6: Semi-skilled trades
- Level 7: Unskilled workers

The Hollingshead Two-Factor Index (SES level) consisted of a weighted composite of the occupational and educational levels (occupation weighted 7 and education weighted 4). The father's educational and occupational level were used to compute the SES level if that information was available. If information for the father was not available, or if the father was not living with the family, the index was computed from information available for the mother.¹

¹ The scaling of educational, occupational, and SES levels had a reverse correspondence to amount of education, etc. In interpreting results involving these measures, lower mean scores indicate higher levels.

Measures of family characteristics were the number of siblings of the subject and the marital status of parents. The former variable was coded directly, the latter consisted of two categories indicating (1) that the subject's natural parents were alive and married, and (2) that the natural parents were separated, divorced, deceased, or remarried.

Measures of elementary school performance prior to the 6th grade were the 3rd grade California Achievement Test Total Reading score (3rd grade CAT Reading score), the IQ score from the 3rd grade California Test of Mental Maturity (3rd grade CTMM IQ score), and whether or not a subject had been retained in grade during elementary school (school progression).² Third grade test scores were available for only those subjects in the 6th grade cohort who were in the school system from the 3rd to 6th grades. This was approximately 60% of the original 6th grade sample.

Procedures

A discrepancy score that represented the difference between expected reading level (predicted from the 6th grade CTMM IQ score) and obtained reading level (6th grade CAT Total Reading score) was used to define three achievement groups: underachievers, average

2

The 3rd grade CAT reading test was administered between the 4th and 6th month of the school year (1952-53 for normal progression subjects). Test was the 1950 edition, primary form AA. The IQ score was from the 1950 edition, short form, primary level California Test of Mental Maturity.

achievers, and overachievers. Achievement groups were formed on the basis of the standard error of estimate (S.E.E.) for predicting the 6th grade CAT Reading score from the 6th grade CTMM IQ score. Underachievers had discrepancy scores below 1 S.E.E.; average achievers had discrepancy scores between plus and minus 1 S.E.E.; and overachievers had discrepancy scores above 1 S.E.E. (see Part I).

In the race and sex samples, the expected reading scores were derived from the regression of the IQ score and the reading score for each sample (see Part II). That is, the definition of under-, average, and overachievement was controlled for differences in the relationship of IQ and reading level that might exist across sex and race.³ Standard errors of estimate in the four race and sex samples, however, were similar enough to permit the use of one cut-off score for defining achievement groups in all samples (discrepancy score of plus and minus .85). Only in the Negro female sample, where the standard error of estimate was .768, did this affect the classification of subjects.⁴

³The Pearson product-moment correlations between the 6th grade CTMM IQ score and the 6th grade CAT Reading score were of different magnitude, particularly across race. Coefficients in the four samples were .82 (WM), .78 (WF), .61 (NM), and .74 (NF).

⁴Discrepancy scores were rounded to one-tenth of a grade-equivalent score so that subjects with a score of -.9 or below were classified as underachievers, and subjects with scores of +.9 or above were classified as overachievers. Four Negro females who had scores of -.8 and would have been classified as underachievers by the S.E.E. in that sample were classified as average achievers for this analysis. One Negro female had a score of +.8 and was classified as an average achiever rather than as an overachiever.

In order to investigate the relationship of reading achievement to other measures at different levels of mental ability, two groups were formed on the basis of scores on the 6th grade CTMM. The high IQ level consisted of subjects with 6th grade CTMM IQ scores of 100 and above; the low IQ level consisted of subjects with scores below 100. For comparison of reading achievement in groups with different socio-economic status background, subjects were classified into high and low groups on the Two-Factor Index of Social Position. High SES level consisted of subjects from levels 1, 2, and 3; low SES level consisted of subjects from levels 4 and 5.⁵

Statistical analyses consisted of analysis of variance tests across the three achievement groups, with the omega² statistic as an index of association, or chi square comparisons where appropriate.

⁵The comparisons of high and low SES and IQ levels are reported for the combined samples, i.e., under-, average, and overachievers in all four race and sex samples. Since the majority of Negro subjects had IQ scores below 100 and were concentrated in the lower SES levels, most Negro subjects were included in the lower levels of these stratifications. Comparisons of high and low IQ and SES groups within the separate race-by-sex samples were made to determine possible interaction effects and to pinpoint specific subgroups contributing to significant differences across achievement groups. For these analyses, high and low IQ and SES were defined in the Negro samples to achieve a more balanced comparison. High and low IQ levels were defined as an IQ score of 86 and above and 85 and below, respectively. High SES was defined as levels 1 through 4 of the two-factor index, low SES as level 5. Results from these data will be referred to only when they add to or contradict results obtained from stratifications in the combined samples. Data for the IQ and SES groups in the separate race-by-sex samples are contained in a supplement to this study, copies of which are available from the author.

Results

General Distributions on Variables

Distribution of the four race-by-sex samples on the experimental variables were compared to provide a basis for interpreting differences across samples that might be found when the relationships to reading achievement were assessed.

In Table 1, means and standard deviations of the four race-by-sex samples and the combined samples on family measures are presented. Mean differences across race samples were significant on all variables. The Negro samples had lower mean educational level of father, educational level of mother, occupational level of father, and SES level than the white samples, and Negro samples had a higher mean number of siblings than the white samples. Differences on these variables between white males and white females and between Negro males and Negro females were not significant.

Percentages in categories of marital status of parents are given in Table 2. The chi-square tests between race samples were significant ($p < .02$ and $p < .01$), with the Negro samples showing a higher percentage than the white samples of parents who were separated, divorced, or deceased. Differences between sexes within race were not significant, although there was a higher percentage of separated, divorced, or deceased parents among white females (12%) than among white males (9.9%).

Table 1
Means and Standard Deviations on Measures of Family
Characteristics for Race-by-Sex and Combined Samples

Variables		White Males	White Females	Negro Males	Negro Females	Combined Samples
Educational level of father	N	1547	1534	213	184	3478
	M	3.60	3.66	5.32	5.20	3.82
	SD	1.74	1.74	1.15	1.24	1.76
Educational level of mother	N	1549	1540	217	184	3490
	M	3.66	3.71	5.07	4.90	3.83
	SD	1.55	1.54	1.19	1.35	1.57
Number of siblings	N	1624	1600	231	196	3651
	M	2.01	2.04	4.71	4.55	2.33
	SD	1.70	1.67	2.73	2.83	2.03
Occupational level of father	N	1518	1510	217	185	3430
	M	4.13	4.14	5.93	6.02	4.35
	SD	1.57	1.53	1.15	1.21	1.62
SES level	N	1533	1524	219	182	3458
	M	3.23	3.23	4.48	4.52	3.38
	SD	1.15	1.13	0.74	0.74	1.18

Table 2

Marital Status of Parents of Race-by-Sex and Combined Samples

	Natural Parents Married		Natural Parents Separated, Divorced, Deceased, or Remarried	
	N	%	N	%
White Males (N=1565)	1410	90.10	155	9.90
White Females (N=1545)	1359	87.96	186	12.04
Negro Males (N=226)	186	82.30	40	17.70
Negro Females (N=191)	157	82.20	34	17.80
Combined Samples (N=3527)	3112	88.23	415	11.77

Table 3

Elementary School Progression for Race-by-Sex and Combined Samples

	Regular Progression		Retained-in-Grade	
	N	%	N	%
White Males (N=1511)	1361	90.07	150	9.93
White Females (N=1502)	1428	95.07	74	4.93
Negro Males (N=224)	140	62.50	84	37.50
Negro Females (N=191)	136	71.20	55	28.80
Combined Samples (N=3428)	3065	89.41	18363	10.59

In Table 3, the elementary school progression of the samples is presented. Comparisons between race samples revealed that the Negro students were retained-in-grade significantly more often than white students ($p < .001$). White males were retained significantly more than white females ($p < .001$). Negro males were retained more than Negro females; however, this difference was not statistically significant.

The mean performance of the samples on the 3rd grade standardized tests are given in Table 4. On the 3rd CTMM IQ score, there were significant differences between race samples and no significant differences between sex samples within race. The difference in mean 3rd CAT Reading score was also significant across race. Within both races, female samples had a higher mean reading level than the male samples; this difference was significant between white males and white females ($p < .001$), but not significant between Negro males and Negro females.

As anticipated from previous analyses, the Negro and white samples differed significantly on all variables. These differences indicated that the Negro samples largely came from lower socioeconomic background and had a lower test performance level than the white samples. Therefore, in the analysis of reading achievement, the focus of comparison across race did not concern level of performance, but was directed at determining whether the relationship of reading achievement to other characteristics was the same or different in the two race groups.

Table 4
Mean Performance on 3rd Grade Standardized
Tests for Race, Sex, and Combined Samples

Variables		White Males	White Females	Negro Males	Negro Females	Combined Samples
3rd CTMM IQ score	N	1075	1023	143	125	2366
	M	108.63	108.50	93.70	92.40	106.81
	SD	16.25	15.54	15.37	16.25	16.63
3rd CAT total reading score	N	1029	965	138	109	2241
	M	3.75	4.09	3.15	3.44	3.85
	SD	.95	.84	.83	.85	.93

With two exceptions, males and females did not differ significantly on characteristics under investigation, and the exceptions were in agreement with established sex differences (higher reading level for females, higher retention rate for males). The comparability of the sex samples makes it possible to look for replication of relationships to reading achievement in two samples and to evaluate sex-related differences by their replication across race.

Relationship of Educational Level of Parents to Reading Achievement

The comparisons across the three achievement groups on educational level of father are presented in Table 5. In the combined samples the difference in mean educational level was statistically significant ($p < .001$), with underachievers having fathers with lower educational levels than fathers of average or overachievers. The ω^2 statistic indicated that educational level of father accounted for 0.9% of the variance among achievement groups.

With the stratification of the sample into high and low SES level, a significant difference in educational level of the father was not expected because this measure was a component of the SES classification. In the high SES group, however, the difference among achievement groups remained significant ($p < .05$). Underachievers from high SES levels had fathers with lower educational level than did high SES average achievers and overachievers. This significant difference most likely resulted from the limited number of categories on this variable. The upper category included any

Table 5

Mean Educational Level of Father of Under-, Average, and Overachievers in the Combined Samples, High and Low SES and IQ Ranges, and Separate Race and Sex Samples

Group		Under- achievers	Average achievers	Over- achievers	F	omega ²
Combined samples	N	508	2421	549	17.28 ^c	0.93
	M	4.09	3.84	3.46		
	SD	1.67	1.75	1.84		
High SES	N	192	992	292	3.67 ^a	0.36
	M	2.71	2.44	2.31		
	SD	1.62	1.62	1.59		
Low SES	N	310	138	250	1.27	0.03
	M	4.92	4.82	4.81		
	SD	1.32	1.02	1.04		
High IQ	N	307	1432	326	12.63 ^c	1.11
	M	3.76	3.38	3.05		
	SD	1.74	1.77	1.84		
Low IQ	N	201	989	223	8.42 ^c	1.04
	M	4.60	4.51	4.08		
	SD	1.43	1.50	1.67		
White males	N	235	1056	256	4.62 ^b	0.47
	M	3.88	3.59	3.41		
	SD	1.68	1.75	1.76		
White females	N	231	1068	235	16.63 ^c	2.00
	M	4.05	3.68	3.14		
	SD	1.65	1.71	1.84		
Negro males	N	23	158	32	.67	0.00
	M	5.56	5.30	5.22		
	SD	0.84	1.18	1.21		
Negro females	N	19	139	26	2.22	1.30
	M	5.32	5.27	4.73		
	SD	1.34	1.12	1.66		

^a p < .05

^b p < .01

^c p < .001

educational training beyond high school, ranging from additional vocational or business training to graduate and advanced professional degrees. The significant difference among high SES achievement groups suggested (1) that a more differentiating scale of educational level would reveal a greater association to reading achievement, and (2) that in the highest educational levels the fewest underachievers would be found.

When the combined samples were stratified into high and low IQ levels, the relationship of educational level of father to under-, average, and overachievement in reading was found to be significant at both levels. The direction of the difference among groups was the same as that for the total sample, and the percentage of variance accounted for was approximately the same.

In the race-by-sex samples, educational level of father was significantly related to reading achievement in the white samples. The omega² statistic and the significance levels also indicated that the relationship was greater for white females than for white males. Although differences were not statistically significant in the two Negro samples, the trend was in the same direction as in the white samples, with underachievers showing the lowest mean level. The association was also relatively greater for Negro females than for Negro males.

The educational level of father in high and low IQ levels within separate race-by-sex samples indicated that there was also an interaction effect of sex and IQ level in the relationship

of educational level and reading achievement. In the high IQ level, achievement groups differed significantly in educational level of father in the white female sample ($p < .001$; $\omega^2 = 2.26$) and the Negro female sample ($p < .001$; $\omega^2 = 8.93$), but these were not significantly different in the white male and Negro male samples. In the low IQ level, the relationship of educational level of father was significant for white males ($p < .05$; $\omega^2 = 0.72$) and for white females ($p < .001$; $\omega^2 = 1.87$) but not for Negro males or Negro females. Thus, the relationship of educational level to reading achievement among white males appeared to hold predominantly in the low IQ range. The relationship among white females, although significant in both high and low IQ levels, was greater in the high IQ range. The relationship of father's educational level in the Negro female sample, which was not sufficient to produce a significant difference across achievement groups among all Negro females, did show a significant relationship among high IQ Negro females, thereby increasing the evidence for a stronger association of educational level of father to reading achievement among high IQ females.⁶

The mean educational levels of mother for the three achievement groups in the various groupings are presented in Table 6. The relationship of educational level of mother to reading

⁶High IQ level for Negro females was defined as a 6th CTMM IQ score of 86 or above; high IQ level for white females was defined as an IQ score of 100 or above, see Procedures section.

Table 6

Mean Educational Level of Mother of Under-, Average, and Overachievers in the Combined Samples, High and Low SES and IQ Ranges, and Separate Race and Sex Samples

Group		Under- achievers	Average achievers	Over- achievers	F	omega ²
Combined samples	N	512	2427	551	5.45 ^b	0.25
	M	3.98	3.84	3.67		
	SD	1.49	1.59	1.55		
High SES	N	192	995	292	3.83 ^a	0.38
	M	3.30	2.96	2.97		
	SD	1.53	1.60	1.55		
Low SES	N	312	1375	251	0.27	0.08
	M	4.39	4.44	4.47		
	SD	1.28	1.26	1.10		
High IQ	N	306	1441	327	3.57 ^a	0.25
	M	3.66	3.47	3.33		
	SD	1.45	1.58	1.57		
Low IQ	N	206	986	224	2.77	0.25
	M	4.46	4.37	4.15		
	SD	1.42	1.45	1.38		
White males	N	234	1060	255	1.96	0.12
	M	3.83	3.64	3.56		
	SD	1.48	1.58	1.48		
White females	N	231	1073	236	5.27 ^b	0.55
	M	3.93	3.71	3.47		
	SD	1.48	1.55	1.52		
Negro males	N	26	157	34	.67	0.00
	M	5.08	5.08	5.03		
	SD	1.02	1.22	1.22		
Negro females	N	21	137	26	.52	0.00
	M	4.90	4.95	4.65		
	SD	1.34	1.29	1.65		

^a p < .05

^b p < .01

achievement showed the same pattern as educational level of father in all samples and stratifications, but the relationship was not as strong. In the combined groups, educational level of mother accounted for 0.3% of the variance across the achievement groups compared to 0.9% for educational level of father. The difference between the groups did not reach significance in the white male sample, and the significant level of the difference in the white female sample was lower. Comparing other figures in Table 6 with those in Table 5, it can be seen that the relationship of educational level of mother in the high and low SES levels was approximately the same as that for educational level of father. In the high and low IQ levels, the difference among achievement groups in educational level of mother did not reach significance in the low IQ level, and the difference was at a lower significance level in the high IQ level than that for educational level of father. Examination of the differences in educational level of mother across stratifications in the individual samples showed the same relationships that were found for educational level of father. A significantly lower mean of underachievers in the high SES level resulted solely from the significant difference in the white female sample. In the high IQ level, underachievers showed a significantly lower educational level of mother only in the female samples ($p < .05$ for white females; $p < .001$ for Negro females).

The results indicated that the relationship of educational level of parents to achievement in reading was primarily characteristic of females. This finding was replicated on two measures, one for father and one for mother, and across race groups. Further, the relationship resulted primarily from differences in the high IQ level. If IQ and educational level of parents are considered as determiners of reading achievement, the results showed that females with a high IQ profit more from the higher educational background in the home than do males. For males, the results suggest the reverse, for it was only in the low IQ range that educational level of father was significantly related to reading achievement (white male sample, $p < .05$).

Relationship of Occupational Level of Father to Reading Achievement

In the combined samples, occupational level of father was significantly different across the three achievement groups, with underachievers coming from the lowest mean occupational level (Table 7). The variance accounted for among groups by occupational level (0.8%) was similar to that accounted for by educational level of father (0.9%).

At high and low SES levels, the occupational level of father was not significantly different across achievement groups (this variable was a component in the SES classification). There was a significant difference in both high and low IQ levels, with a higher significance level and slightly greater percentage of variance accounted for in the upper IQ range than in the lower IQ

Table 7

Mean Occupational Level of Father of Under-, Average, and Overachievers in the Combined Samples, High and Low SES and IQ Ranges, and Separate Race and Sex Samples

Group		Under- achievers	Average achievers	Over- achievers	F	omega ²
Combined samples	N	501	2383	546	14.98 ^c	0.81
	M	4.54	4.39	4.03		
	SD	1.48	1.62	1.70		
High SES	N	188	981	289	2.46	0.20
	M	3.04	2.87	2.78		
	SD	1.14	1.23	1.24		
Low SES	N	308	1377	253	0.16	0.00
	M	5.43	5.44	5.41		
	SD	0.72	0.75	0.83		
High IQ	N	300	1417	324	11.43 ^c	1.01
	M	4.23	4.00	3.62		
	SD	1.52	1.65	1.70		
Low IQ	N	201	966	222	5.41 ^b	0.63
	M	5.00	4.94	4.62		
	SD	1.28	1.40	1.53		
White males	N	226	1040	252	4.04 ^a	0.40
	M	4.29	4.16	3.90		
	SD	1.45	1.57	1.64		
White females	N	229	1048	233	15.47 ^c	1.88
	M	4.49	4.16	3.71		
	SD	1.42	1.51	1.61		
Negro males	N	25	158	34	0.56	0.00
	M	5.72	5.98	5.88		
	SD	0.84	1.17	1.27		
Negro females	N	21	137	27	2.67	1.78
	M	6.38	6.04	5.59		
	SD	0.97	1.22	1.28		

^a p < .05

^b p < .01

^c p < .001

range. As in the relationships of educational level to reading achievement, significant relationships resulted from differences in the two white samples, and primarily in the white female sample. For white females, the occupational level of father accounted for 1.9% of the variance across achievement groups compared to 0.4% in the white male sample. Although the association was not significant in either of the Negro samples, there was a stronger relationship of occupational level to achievement among Negro females than among Negro males.

In the high and low IQ level stratification in the individual samples, the same interaction occurred between IQ level and sex that was found with the measures of educational level. There was not a significant difference among achievement groups in mean occupational level of father in the male samples in the high IQ range, whereas the relationship was significant in both female samples ($p < .001$; $\omega^2 = 2.27\%$, for white females and $p < .01$; $\omega^2 = 5.59\%$ for Negro females). In the low IQ range, differences were only significant in the white male ($p < .05$; $\omega^2 = 0.68\%$) and white female ($p < .05$; $\omega^2 = 1.08\%$) samples.

Relationship of SES Level to Reading Achievement

Differences across achievement groups in SES level paralleled those found for educational and occupational level of father, the two components of this measure. Underachievers had a lower mean SES level than average and overachievers in all comparisons shown

in Table 8, with the exception of the low IQ level and Negro male sample. As with educational level of father, the difference among achievement groups remained significant in the high SES stratification, and differences were significant in both high and low IQ stratifications. As with educational and occupational levels of father, significant relationships of SES level to reading achievement resulted primarily from the differences in the female samples. The significant difference of achievement groups in the high SES level resulted solely from the difference in the white female sample ($p < .05$; $\omega^2 = 0.88\%$). In the high IQ range, differences were not significant among achievement groups in the two male samples, but were highly significant in the two female samples ($p < .001$).

A methodological question relevant to the prediction and description of reading achievement concerns the usefulness of the weighted SES score as opposed to the prediction produced by the separate components of this composite score. With one exception, the significance level and percentage of variance figures in Table 8 (SES level) did not differ appreciably from the figures in Table 5 (Educational Level of Father) and Table 7 (Occupational Level of Father). This suggested that either the educational or occupational measure could be used to account for the differences across reading achievement groups in place of the more complexly-derived SES measure. The one exception where prediction was better with the

Table 8

Mean SES Level of Under-, Average, and Overachievers
in the Combined Samples, High and Low SES and
IQ Ranges, and Separate Race and Sex Samples

Group		Under- achievers	Average achievers	Over- achievers	F	omega ²
Combined samples	N	508	2402	548	17.55 ^c	0.95
	M	3.54	3.40	3.13		
	SD	1.08	1.17	1.25		
High SES	N	193	1001	293	3.96 ^a	0.40
	M	2.39	2.24	2.17		
	SD	0.80	0.86	0.88		
Low SES	N	315	1401	235	0.08	0.00
	M	4.24	4.23	4.23		
	SD	0.43	0.42	0.42		
High IQ	N	305	1428	324	15.47 ^c	1.39
	M	3.33	3.10	2.80		
	SD	1.13	1.21	1.26		
Low IQ	N	203	974	224	5.74 ^b	0.67
	M	3.85	3.85	3.61		
	SD	0.90	0.95	1.05		
White males	N	235	1046	252	4.36 ^a	0.44
	M	3.39	3.23	3.08		
	SD	1.10	1.15	1.21		
White females	N	228	1061	235	17.88 ^c	2.17
	M	3.48	3.26	2.88		
	SD	1.02	1.12	1.20		
Negro males	N	25	159	35	0.45	0.00
	M	4.48	4.50	4.37		
	SD	0.59	0.76	0.73		
Negro females	N	20	136	26	3.33 ^a	2.50
	M	4.70	4.55	4.19		
	SD	0.57	0.69	1.02		

Note.--Lower means indicate higher SES level.

^a p < .05

^b p < .01

^c p < .001

SES measure than with either of the educational or occupational components was in the Negro female sample. In this sample, average and overachievers differed in mean educational and occupational level of father, but these differences were not statistically significant. Combining these two measures to obtain an SES level score increased the differences among the achievement groups to a statistically significant level ($p < .05$).

Relationship of Other Family Characteristics to Reading Achievement

Underachievers, average achievers, and overachievers were compared on number of siblings and marital status of parents.

The mean number of siblings for achievement groups is presented in Table 9. There was a significant difference across achievement groups in the combined samples, with underachievers having a higher number of siblings than average or overachievers. A similar relationship, however, was not consistently found in the stratifications of the combined samples and the individual samples.

Although there were trends across achievement groups, significant differences were only found in the low IQ level and the white male sample. Where significant differences and trends occurred, means of the achievement groups indicated that the relationship of number of siblings to reading achievement resulted primarily from the fewer siblings of overachievers rather than the greater number for underachievers. The indication that the relationship of number of siblings to reading achievement was primarily

Table 9

Mean Number of Siblings of Under-, Average, and Overachievers
in the Combined Samples, High and Low SES and IQ Ranges,
and Separate Race and Sex Samples

Group		Under- achievers	Average achievers	Over- achievers	F	omega ²
Combined samples	N	536	2537	578	3.64 ^a	0.14
	M	2.35	2.37	2.12		
	SD	1.94	2.09	1.82		
High SES	N	193	1001	293	0.34	0.00
	M	1.87	1.85	1.78		
	SD	1.38	1.45	1.22		
Low SES	N	315	1401	255	0.53	0.00
	M	2.73	2.82	2.69		
	SD	2.08	2.31	2.23		
High IQ	N	319	1495	343	0.60	0.00
	M	1.92	1.92	1.82		
	SD	1.53	1.65	1.47		
Low IQ	N	217	1042	235	3.53 ^a	0.34
	M	3.00	3.02	2.57		
	SD	2.27	2.45	2.18		
White males	N	248	1105	271	3.90 ^a	0.36
	M	2.16	2.03	1.76		
	SD	1.80	1.74	1.40		
White females	N	240	1116	244	1.28	0.04
	M	2.13	2.06	1.90		
	SD	1.63	1.74	1.37		
Negro males	N	27	168	36	0.22	0.00
	M	4.41	4.72	4.86		
	SD	2.69	2.72	2.88		
Negro females	N	21	148	27	0.44	0.00
	M	4.57	4.63	4.07		
	SD	2.77	2.83	2.93		

^a p < .05

characteristic of low-IQ-level white males was supported by the relationships within the white male sample. The difference in number of siblings was significant ($p < .05$; $\omega^2 = 0.92\%$) across achievement groups in the low IQ level, but it was not significant across high-IQ white male achievement groups.

The trend of means across achievement groups in the Negro male sample was opposite from that in the white samples. Negro male underachievers had the lowest mean number of siblings, and overachievers had the highest mean number of siblings. In the Negro female sample a trend was not clear; both underachievers and overachievers had fewer siblings than average achievers.

A closer examination of family size in the Negro samples indicated that fewer underachievers came from small and large families, in contrast to the white samples where the incidence of underachievement consistently increased with increase in family size. In the Negro samples, 22% of underachievers had two or less siblings compared to 24% of average achievers and 28% of overachievers. Considering large families, 18% of underachievers had six or more siblings compared to 42% of average achievers and 44% of overachievers. In contrast, 26% of the white male underachievers had six or more siblings, compared to 5% of average achievers and only 2% of overachievers. Although the distribution of number of siblings across achievement groups was not significant in the Negro samples when tested by chi square,

there was definitely a different relationship to reading achievement from that found in the white samples. Large family size was more often associated with average and overachievement than with underachievement.

The marital status of the subjects' natural parents was coded into the following categories: married, separated, divorced, deceased, or remarried. The percentages in each of these categories were tabulated for the achievement groups. In addition, a dichotomous variable was formed to compare all of the categories that reflected a change in marital status prior to the 6th grade with the "married" category. The percentages of subjects in the three achievement groups whose parents were recorded as being separated, divorced, deceased, or remarried when the subject was in the 6th grade are presented in Table 10. The only significant difference in marital status occurred in the white male sample ($p < .05$; $C = .07$). Among white males, a higher percentage of underachievers than average or overachievers had parents whose marriage had been disrupted. Examination of the relationship of marital status to achievement within the white male sample revealed that the significant difference largely resulted from differences in the low SES level ($p < .01$; $C = .11$). White male underachievers had a higher percentage than average and overachievers in each of the change categories (separated, divorced, deceased, or remarried); so, there was no indication that one category was more highly related to underachievement than the others.

Table 10

Marital Status of Parents of Under-, Average, and Overachievers
in Combined Samples, High and Low SES and IQ Levels
and Race and Sex Samples

Group	Underachievers		Average Achievers		Overachievers		x ²	C
	N	%	N	%	N	%		
Combined samples	69	13.4	281	11.4	65	11.7	1.48	.02
High SES	19	9.9	94	9.4	32	10.9	.59	.02
Low SES	44	14.0	162	11.6	28	11.1	1.53	.03
High IQ (white)	29	10.0	107	8.1	29	9.6	1.49	.03
High IQ (Negro)	4	16.7	26	15.6	8	25.0	2.30	.10
Low IQ (white)	31	17.2	118	14.2	27	14.0	1.16	.03
Low IQ (Negro)	5	20.8	30	21.3	1	3.4	5.15	.16
White males	34	14.3	92	8.6	29	11.2	7.80 ^a	.07
White females	26	11.2	133	12.4	27	11.4	.35	.01
Negro males	4	14.8	32	19.5	4	11.4	1.47	.08
Negro females	5	23.8	24	16.7	5	19.2	.68	.06

Note.-Figures represent the number and percentage of subjects in each group whose parents had been separated, divorced, deceased, or remarried at the time the subject was in the 6th grade. The break points for defining high and low IQ levels were an IQ score of 100 in the white samples and an IQ score of 85 in the Negro samples.

^a
p < .05

Elementary School Progression

The percentages of subjects in the achievement groups who were retained in grade between grades 1 and 6 are presented in Table 11. Underachievers were retained slightly more than average achievers in all samples and in the combined samples. The difference among the three achievement groups, however, was only significant in the Negro female sample ($p < .05$). Further, the difference in the percentage of Negro females retained was only significant in the low SES range ($p < .02$, $C = .22$) and low IQ range (IQ below 85, $p < .05$, $C = .28$).

With the exception of the findings in the Negro female sample, retention in elementary school did not appear to be related to underachievement in reading when general level of mental ability was controlled. Comparison of the figures in all achievement groups across high and low IQ and SES ranges, however, showed that elementary school retention was highly related to IQ score and SES level. The over-all retention rate for students in the white samples with IQ scores above 100 was approximately 2% compared to the retention rate of 17% for students with IQ scores below 100. This strong relationship of retention to ability or general achievement suggests that decisions to retain a student were primarily based on normative level of performance and not on discrepancy between performance and ability, i.e., achievement

Table 11

Percentage of Under-, Average, and Overachievers Retained
in Elementary School in Combined Samples, High and Low SES
and IQ Levels and Race and Sex Samples

Group	Underachievers		Average Achievers		Overachievers		x ²	C
	N	%	N	%	N	%		
Combined samples	61	12.1	251	10.5	51	9.5	1.88	.02
High SES	12	6.4	48	4.9	10	3.6	2.01	.04
Low SES	47	15.3	187	13.8	41	16.5	1.52	.03
High IQ (white)	8	2.8	22	1.7	7	2.4	1.74	.03
High IQ (Negro)	7	29.2	25	15.2	5	16.7	2.93	.11
Low IQ (white)	31	17.7	135	17.0	21	11.4	3.88	.06
Low IQ (Negro)	15	62.5	69	48.6	18	60.0	2.49	.11
White males	24	10.5	104	10.1	22	8.8	.49	.02
White females	15	6.6	53	5.1	6	2.6	3.90	.05
Negro males	11	40.7	58	35.8	15	42.8	.75	.06
Negro females	11	52.4	36	24.8	8	32.0	6.94 ^a	.19

Note.-The breakpoint for defining high and low IQ ranges in the white samples was an IQ score of 100; the breakpoint in the Negro samples was an IQ score of 85.

^a
p < .05

as defined in this study.⁷

Relationship of 3rd Grade Test Performance to Reading Achievement

For the subjects who were in the 3rd grade, two test scores were available, the 3rd grade CTMM IQ score and the 3rd grade CAT Reading score.

Achievement groups differed significantly in 3rd grade CTMM IQ in the high and low SES levels, high IQ level, and in the white male and white female samples, with underachievers having the lowest mean IQ (Table 12). Underachievers also had a lower mean IQ score than average achievers; in the low IQ level and in the Negro male and Negro female samples, however, differences were not statistically significant. The largest differences occurred among white males and white females in the high IQ level. Significant differences in mean 3rd grade IQ of the achievement groups supported other evidence (Part I) of some misclassification of subjects due to the reliability of the 6th grade test scores. Where significant differences in 3rd grade CTMM IQ score occurred, however, the percentage of variance accounted for across achievement groups was

⁷ In some of the comparisons presented in Table 11, the percentage of retention among overachievers was higher than that for average achievers. The method of defining achievement groups may have contributed to this finding. Expected reading level was based on the IQ score, which included chronological age. As previously discussed (see Discussion section of Part I), students who have been retained may have lower IQ scores in grades following the retention by virtue of increased age alone. This, in turn, would increase the probability of retained students being classified as overachievers.

Table 12

Mean 3rd Grade CTMM IQ Score of Under-, Average, and Overachievers in the Combined Samples, High and Low SES and IQ Levels and Race and Sex Samples

Group		Under-achievers	Average achievers	Over-achievers	F	omega ²
Combined samples	N	333	1680	353	12.61 ^c	0.97
	M	103.84	106.70	110.15		
	SD	16.60	16.47	16.87		
High SES	N	120	671	170	3.67 ^a	0.55
	M	109.32	112.74	114.07		
	SD	14.90	15.11	15.13		
Low SES	N	203	975	174	3.69 ^a	0.40
	M	101.50	102.79	105.91		
	SD	16.55	16.11	17.47		
High IQ	N	195	1000	224	12.07 ^c	1.54
	M	110.77	113.72	117.21		
	SD	13.67	13.56	13.03		
Low IQ	N	138	680	129	2.28	0.27
	M	94.04	96.38	97.89		
	SD	15.42	14.85	15.75		
White males	N	158	744	173	5.51 ^b	0.83
	M	105.39	108.70	111.30		
	SD	15.64	16.31	16.11		
White females	N	147	733	143	8.08 ^c	1.37
	M	105.54	108.27	112.70		
	SD	15.77	15.28	15.87		
Negro males	N	15	105	23	2.26	1.74
	M	86.20	95.01	92.61		
	SD	16.97	15.17	14.36		
Negro females	N	13	98	14	2.13	1.77
	M	86.08	92.32	98.86		
	SD	16.23	15.48	20.08		

^a p < .05

^b p < .01

small, exceeding 1% only in the white female sample and in the high IQ level.

Comparison of the 6th grade underachievers, average achievers, and overachievers on 3rd grade reading performance was directed at determining whether underachievers in the 6th grade revealed a history of underachievement back to the primary grades, or whether development of reading skills in the 4th and 5th grades was more critical to achievement status in the 6th grade.

Comparisons of the three achievement groups on the 3rd grade CAT Reading score are presented in Table 13. With the exception of the Negro male sample, the mean 3rd grade reading level of underachievers was significantly below that of average and overachievers in all samples and stratifications ($p < .001$). In the Negro male sample, the trend of means was in the same direction as in other samples, and the difference across achievement groups approached significance. The percentage of variance accounted for across the achievement groups by the 3rd grade CAT Reading score was much greater than that accounted for by the 3rd CTMM IQ score, indicating that differences in IQ could not account for all differences in reading level.

The lower 3rd grade reading level of the 6th grade underachievers supported the hypothesis that many underachievers had a history of underachievement in relation to the level expected from their mental ability score at least as far back as the 3rd grade.

Table 13

Mean Performance on the 3rd Grade CAT Reading Subtest of Under-, Average, and Overachievers in the Combined Samples, High and Low SES and IQ Levels and Race and Sex Samples

Group		Under- achievers	Average achievers	Over- achievers	F	omega ²
Combined samples	N	333	1588	320	83.20 ^a	6.83
	M	3.37	3.86	4.27		
	SD	.93	.90	.85		
High SES	N	119	649	163	47.25 ^a	9.04
	M	3.54	4.12	4.52		
	SD	.94	.83	.74		
Low SES	N	206	908	153	28.86 ^a	4.21
	M	3.31	3.69	4.02		
	SD	.91	.88	.87		
High IQ	N	190	961	201	74.29 ^a	9.78
	M	3.80	4.28	4.67		
	SD	.83	.71	.57		
Low IQ	N	143	627	119	35.45 ^a	7.19
	M	2.81	3.21	3.60		
	SD	.74	.76	.81		
White males	N	154	714	161	43.90 ^a	7.70
	M	3.23	3.76	4.18		
	SD	.92	.91	.87		
White females	N	142	694	129	39.02 ^a	7.30
	M	3.66	4.10	4.53		
	SD	.89	.81	.73		
Negro males	N	18	99	21	2.84	2.59
	M	2.83	3.14	3.46		
	SD	.79	.84	.76		
Negro females	N	19	81	9	7.70 ^a	10.94
	M	2.94	3.48	4.19		
	SD	.77	.82	.68		

^a p < .001

There were other characteristics in the reading performance of the study sample that need to be considered in order to evaluate the performance of the achievement groups from grades 3 to 6. First, it was noted that the mean reading level of subjects with 3rd grade reading scores was .4 grade equivalents above normative placement in the 3rd grade (Table 4); whereas, the mean 6th grade CAT Reading score for all subjects in the study was .3 grade equivalents below the 6th grade norm. The higher 3rd grade reading level of subjects with 3rd grade scores can also be seen in Table 13, where the mean reading score of underachievers (combined samples) was at grade placement (3.4). By comparing the 6th grade performance of the subgroup of subjects with 3rd grade scores with that of the complete sample, it was possible to determine whether the smaller group was representative of the complete sample or whether it was a select, higher-performing group. Data for these comparisons is presented in Table 14. The 3rd grade samples had only slightly higher 6th grade reading and IQ scores than the complete 6th grade sample, and none of the differences on the 6th CAT Reading score was statistically significant. Thus, the decrease in reading level relative to the norm grade placement did not appear to result from selection of subjects. Differences in tests could also be ruled out as a cause of the decrease, since they were from the same publisher, and the norms were as comparable as can be obtained across grades. This would

Table 14

Mean 6th Grade CAT Reading Score and Mean 6th Grade CTMM IQ
Score for Subjects with 3rd Grade CAT Reading Scores
(Figures in parentheses are for
the complete 6th grade sample)

		6th CAT Reading Score		6th CTMM IQ Score	
Combined Samples	M	5.88	(5.83)	103.45	(101.96)
	SD	1.50	(1.51)	16.52	(17.13)
White Males	M	5.80	(5.76)	103.85	(103.26)
	SD	1.51	(1.55)	16.15	(16.76)
White Females	M	6.21	(6.21)	105.97	(105.62)
	SD	1.37	(1.38)	15.09	(15.14)
Negro Males	M	4.49	(4.42)	87.83	(85.42)
	SD	1.26	(1.13)	15.63	(15.66)
Negro Females	M	4.74	(4.92)	88.30	(87.58)
	SD	1.24	(1.16)	15.09	(15.87)

suggest that the cause of the general drop in reading level from grades 3 to 6 was related to characteristics of the reading curriculum in the schools in the intervening grades between tests.⁸

The findings developed this far would indicate (1) that underachievers were performing at a significantly lower level than average and overachievers in the 3rd grade, (2) that the subjects with 3rd grade scores were representative of the complete study sample in their performance in the 6th grade, and (3) that there was a general drop in reading level relative to grade placement from grades 3 to 6. In light of these findings, there were interesting differences in the performance of underachievers, average achievers, and overachievers from grades 3 to 6.

In Figure 1, the mean score of each achievement group in the combined sample is expressed in terms of the deviation in grade-equivalent units from the norm grade-placement for the 3rd and 6th grade testings. In Figure 2, comparable data for the race-by-sex samples is depicted. In the combined samples, overachievers, whose mean reading level in the 3rd grade was .9 grade equivalents above norm placement, were also reading .9 grade equivalents above grade placement in the 6th grade. In contrast, the mean performance of

⁸ Cross-sectional data from the County testing program in the years that the study subjects were in grades 6 to 8 show the same effect as the cohort data above. That is, the 3rd grade classes during these three years had a mean reading level that was at or above norm placement; whereas, 5th and 6th grade classes had mean reading scores that were .2 or .3 grade equivalents below the norm.

FIGURE 1
MEAN 3rd AND 6th GRADE READING LEVELS
OF UNDER-, AVERAGE, AND OVERACHIEVERS
CORRECTED FOR GRADE LEVEL
(ALL SUBJECTS WITH BOTH SCORES, N=2241)

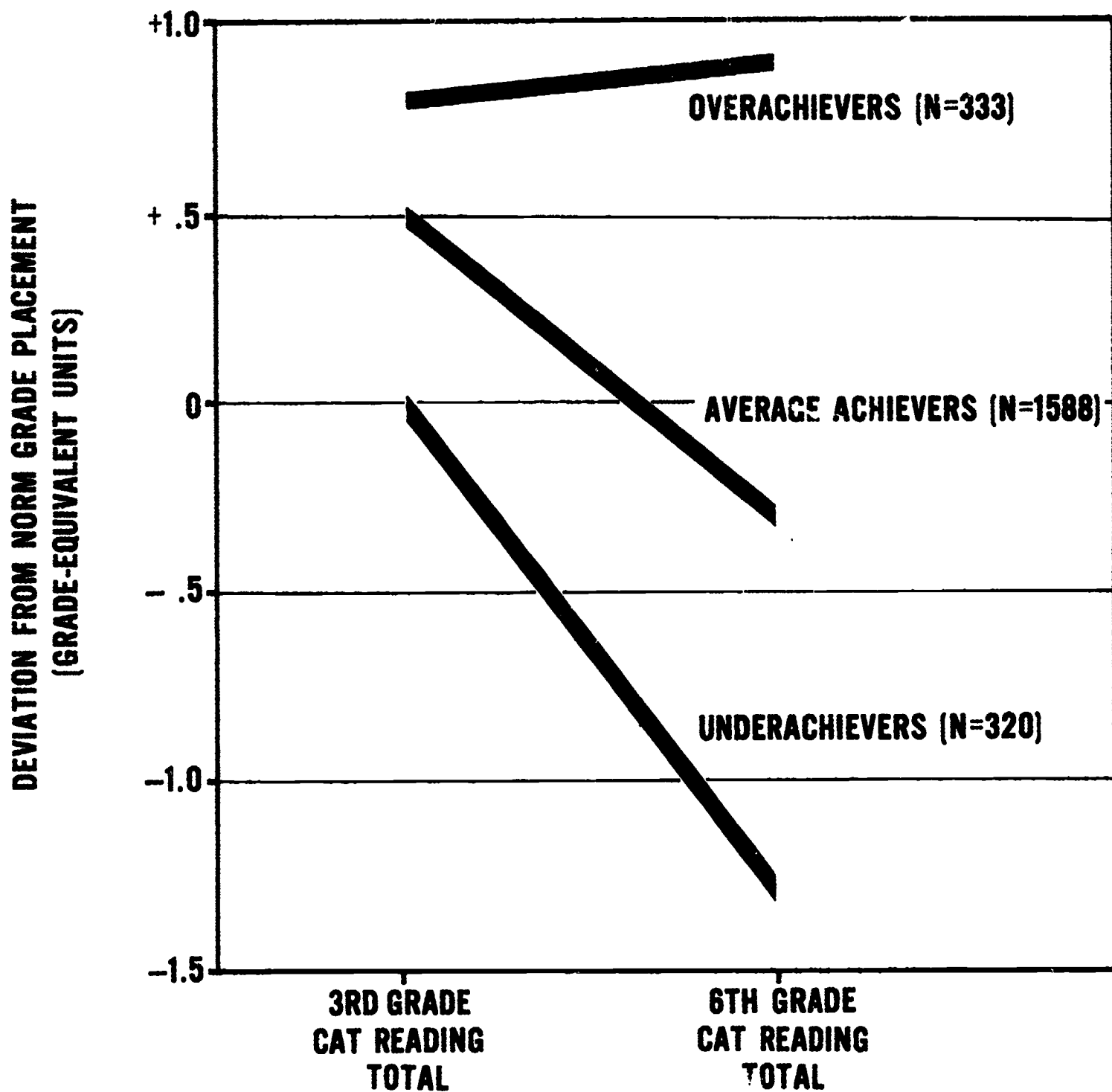
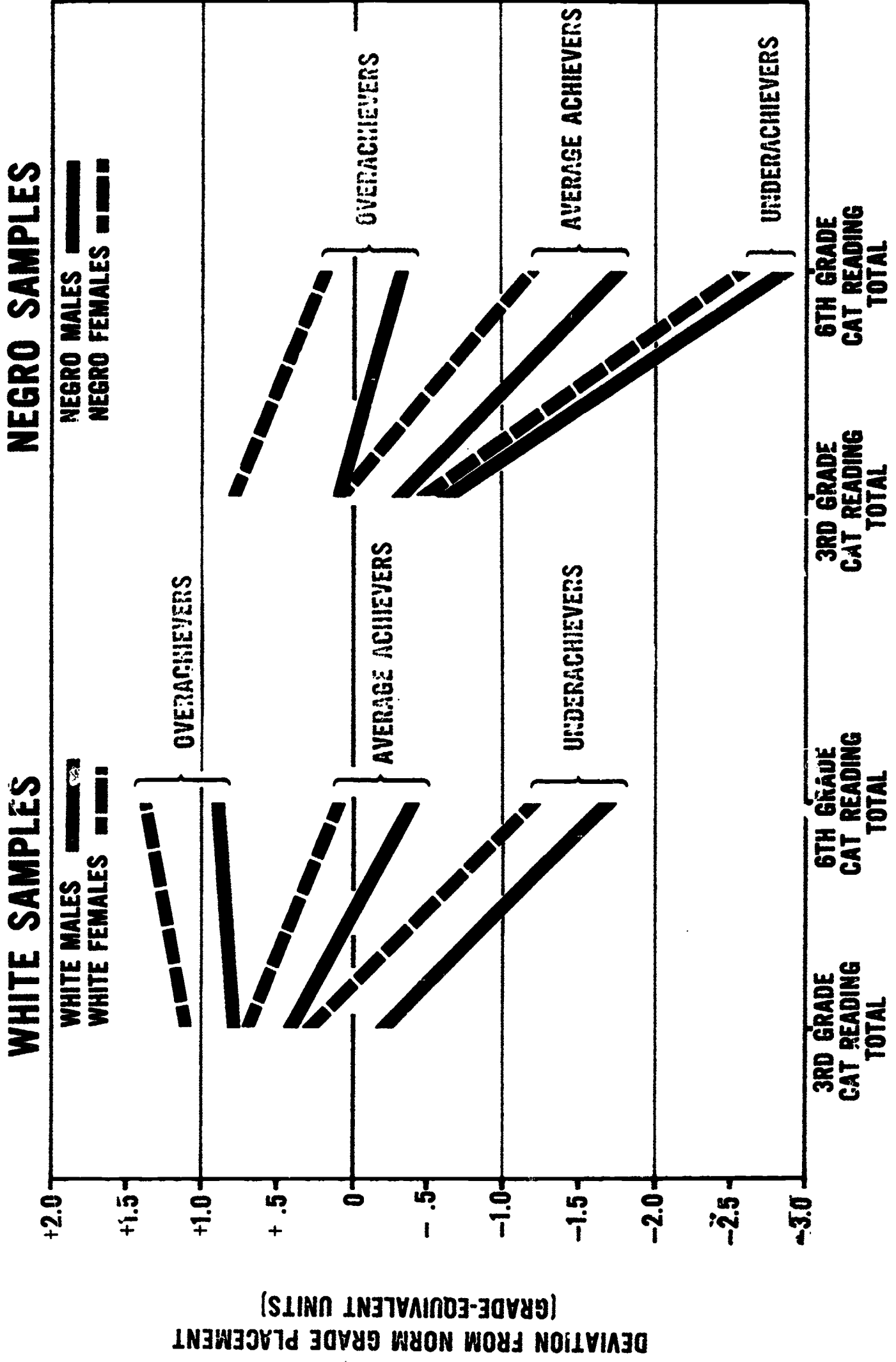


FIGURE 2
MEAN 3rd AND 6th GRADE READING LEVEL OF UNDER-, AVERAGE,
AND OVERACHIEVERS CORRECTED FOR GRADE LEVEL
(RACE AND SEX SAMPLES)



average achievers dropped from .5 grade equivalents above the norm in the 3rd grade to .3 grade equivalents below the norm in the 6th grade. The drop of underachievers was even greater, from a mean performance at grade placement in grade 3 to 1.3 grade equivalents below the norm in grade 6. This same pattern of change occurred in all four race-by-sex samples. Thus, whatever weaknesses in the reading curriculum, or other factors that may have resulted in the general drop relative to norm placement, the performance of over-achievers was unaffected. Further, the effect on underachievers in reading was greater than the effect on average achievers.

A test of the significance of the difference in change of the achievement groups was performed with an analysis of variance with covariate control. Results of this analysis with the white male and white female samples are given in Table 15. Differences among achievement groups in 6th grade reading level remained highly significant (1) when groups were equated on 3rd grade reading level and (2) when equated on 3rd grade reading and IQ level.

There were also some additional characteristics of note in pattern of reading achievement from grades 3 to 6 in each of the race-by-sex samples. The general fanning out of the lines that indicate change from 3rd to 6th grade (Figure 2) suggest that drop in mean performance was partly related to the initial level of reading in the 3rd grade. Negro male underachievers who had the lowest mean in the 3rd grade, relative to normative placement,

Table 15

Differences in Mean 6th Grade Reading Level of Achievement
Groups Controlled for Differences in 3rd Grade Reading Level
and 3rd Grade IQ Score

	Under- achievers	Average achievers	Over- achievers	F	omega ²
WHITE MALES					
Unadjusted 6th CAT Reading	4.42	5.81	7.04	145.78 ^a	21.96
Adjusted for 3rd CAT Reading	5.00	5.79	6.56	104.33 ^a	16.74
Adjusted for 3rd CAT Reading and 3rd CTMM IQ	4.98	5.81	6.61	128.39 ^a	21.18
WHITE FEMALES					
Unadjusted 6th CAT Reading	4.93	6.18	7.58	166.95 ^a	25.59
Adjusted for 3rd CAT Reading	5.38	6.17	7.14	132.10 ^a	21.38
Adjusted for 3rd CAT Reading and 3rd CTMM IQ	5.39	6.18	7.18	149.08 ^a	24.88

Note.--Adjusted means indicate what the 6th grade reading level would have been if the groups had been equal in mean 3rd grade performance.

^a p < .001

showed the greatest decrease in performance from grades 3 to 6. White female overachievers, who had the highest level of performance in the 3rd grade, showed a slight increase in mean performance in the 6th grade. The similarity in the mean change of Negro male and Negro female average achievers to that of white male and white female underachievers further supports that decrease in performance was related to initial reading level. The exceptions to this general pattern suggest that in addition to the relationship of initial standing to decrease in performance, the status of being an overachiever had a relationship to change between the two grades. Male overachievers (both races) did not decrease in reading level as much as same-race female average achievers, although these groups had similar 3rd grade reading scores. The same relationship between overachievement and change can be seen in the performance of high and low IQ groups. Low IQ overachievers did not show as great a decrease in performance as high IQ underachievers, although the latter had a higher mean 3rd grade reading score.

Discussion

Family Characteristics. Educational and occupational background of parents was found to be related to relative reading achievement; however, over-all, this relationship was quite small.

The percentage of variance accounted for across achievement groups by socio-economic measures was only 1%. Since the method that was used to calculate relative achievement could very well control out much of the variance that is common to family background and intelligence, we can conclude that the educational and occupational levels of a child's parents do have some influence on level of reading achievement that is independent of his general mental ability. This relationship of socio-economic background to reading achievement primarily reflected differences between the upper educational and occupational levels. Of the children in SES Level I (parents with college or college graduate education and executive, proprietor, and professional occupations), only 9% were underachievers. Among children in SES Level II (parents with high school or college education and administratives, small business owners, minor and semi-professional occupations), 13% were underachievers. In the lower three SES levels, percentages of underachievers were very similar, between 15% and 16%. Therefore, only in the most highly educated groups does there seem to be a significant decrease in the number of underachievers.

Data bearing on the question as to whether background has more influence on achievement of the upper or lower ability child lead to different conclusions than those reached by Curry (1962), who found that the effect of socio-economic conditions on

scholastic achievement was greater among lower mental ability groups.⁹

Our results would indicate that the effect of educational and occupational background on relative reading achievement is of similar magnitude in both high and low ability groups. In fact, the relationship was slightly stronger in the high IQ group, and particularly stronger for high IQ girls.

The most interesting findings concerned the differences in the relationship of socio-economic and other family characteristics to reading achievement when sex and mental ability were both taken into account. For girls, family background and intelligence seemed to have an additive effect on reading status. It was among bright girls that the educational background of the parents had the greatest contribution to producing average and overachievers rather than underachievers. Among high IQ boys, the relative achievement in reading did not appear to be significantly affected by parents' educational level. Among boys, on the other hand, the effect of family characteristics and intelligence on reading appeared to be a compensative relationship. It was among the low mental ability boys that parents' educational

⁹ There are several similarities between Curry's study and the present one. In both studies the subjects were 6th graders, the California Achievement and Mental Ability Tests were used, and groups were compared across IQ and SES levels. The major difference in the studies is that Curry investigated relationships to normative level of achievement, whereas, our subjects were classified according to achievement relative to potential or expected achievement.

level had positive relationship to reading achievement. Also, having fewer siblings and an intact home, which are situations where a child is likely to receive a greater amount of attention from parents, were also related to reading status of boys in the low IQ group.

It can only be conjectured what factors lie behind the differences for boys and girls in the relationship of family background to reading achievement. A plausible hypothesis, however, is that these differences are associated with the earlier development in girls of reading skills and verbal skills in general. For girls, and particularly bright girls, reading and pre-reading activities occur prior to school age more often than for boys. At this time, parents have a greater influence on a child than when the child is in school, if only from the standpoint of the greater amount of time spent with the child. Even among bright boys, the readiness for or interest in conceptualizing the world in terms of language and reading may not come until late in the 1st or into the 2nd grade, after the school has assumed the primary role in teaching reading. Therefore, girls from homes where there is a greater interest and participation in reading activities may be in a better position than boys to profit from their parents' background in developing reading skills.

Race Differences. Differences between race were difficult to assess for two reasons. On the educational and occupational

measures, the Negro samples had a much more homogeneous distribution than the white samples, which could prevent the finding of significant differences. Second, other family characteristics, number of siblings and marital status of parents, were not strongly related to reading achievement in the white samples (the only significant differences were among low IQ level white males). In general, then, the relationships among the Negro samples were similar to those found in the white samples. There was a greater relationship of educational and occupational level to reading achievement for Negro females than for Negro males, especially for females in the high IQ group. This replicated the findings in the white samples. Family size and marital status of parents were not significantly related to reading achievement in either the Negro male or Negro female samples. There was a trend in the Negro samples suggesting that large families produce fewer underachievers than middle-size families, in contrast to the trend in the white samples. However, the number of white subjects with comparably large family size was too few to know whether this was a general relationship or one that was only characteristic of the Negro samples.

Retention (Non-promotion) in Elementary School Grades. Data on the relationship of retention in elementary school grades to relative reading achievement do not shed light on the efficacy of retaining students as means to remedy skills. The finding that overachievers were not retained significantly less than average achievers suggests

that retention may have benefitted some students.¹⁰ The equal or slightly higher retention rate among underachievers, however, would suggest the opposite, repeating grades did not improve reading status. Perhaps the most significant implication of finding no difference in elementary school retentions for the achievement groups comes in relationship to findings reported in Part II of this report. In those analyses, retention in secondary school grades was found to be significantly higher for underachievers than for average or overachievers.¹¹ In view of these findings (and recognizing that retention is only one way, and not necessarily the preferred way, to correct reading deficiencies), it can be questioned whether as many course failures and retentions would have occurred for underachievers in secondary school if more of them had repeated grades in elementary school.

3rd to 6th Grade Reading Performance. It is generally felt that in the reading curriculum, basic skills should be mastered by the end of the 3rd grade, although not all children achieve this

¹⁰ However, the possibility of an artifact contributing to retained students being classified as overachievers has to be considered.

¹¹ Studies of secondary school dropouts, using this same population (Lloyd, 1967), indicated that retention in secondary school grades was so strongly related to dropout prior to completion of high school that it could only be concluded that retention in secondary school grades led to dropout as often or more often than to remediation of deficiencies.

goal by then (Templeton, 1969). The 3rd grade also is an important point in the educational process in that research suggests that general learning patterns of children are largely determined by the end of the 3rd grade (Bloom, 1964; Vane, 1966). It therefore seemed important to determine whether the reading problems of 6th grade underachievers developed from deficiencies in primary grades or whether they stemmed from more recent difficulties encountered in elementary grades. The comparison of achievement groups on 3rd and 6th grade performance produced five findings:

- (1) Underachievers had a significantly lower reading level than average or overachievers in the 3rd grade.
- (2) The pattern of achievement from the 3rd to the 6th grade showed a decrease in reading relative to grade placement for underachievers and average achievers, whereas,
- (3) Overachievers maintained the same superior level of performance from grades 3 to 6,
- (4) The decrease in performance from grades 3 to 6 was significantly greater for underachievers than for average and overachievers,
- (5) The degree to which scores changed from grades 3 to 6 was related to the level of skill (i.e., grade placement) in the 3rd grade.

The results show two factors operating to determine a pattern of reading achievement. The first is achievement status relative to ability. Being an overachiever or an underachiever, regardless of ability or intelligence level, has implications for future reading skills. The second factor is normative achievement level (i.e., in relation to standardized norms or grade placement). This achievement level in the 3rd grade is also predictive of future reading performance.

These results taken separately and as they interact together have several implications for the identification and treatment of underachievers and, hopefully, for the planning of reading curricula in general.

Finding (1) indicates that underachievement in reading begins in the primary grades for many students and that it should be possible to detect it by grade 3.¹² Both findings (1) and (4) indicate that the corrective action for underachievement in reading should be programmed as early as possible because the performance of underachievers does not remain a constant level lower than that of average achievers, but, rather, underachievers fall further behind in later grades.¹³

¹² Some cases of underachievement have been traced to beginnings as far back as the 1st grade (Shaw & McCuen, 1960).

¹³ Analyses of the performance of these same subjects reported in Parts I and II of this study show that after grade 6, underachievers never catch up to average achievers in reading and that their performance in all subject areas in secondary school is lower than that of average achievers.

Finding (2) indicates that reading skills cannot be ignored in the elementary grades (grades 4-6). We examined our data very closely to determine whether some artifact accounted for the decrease in reading level of average achievers between these grades. This did not seem to be the case. The most likely cause for this decrease in normative placement was a de-emphasis on reading in grades 4 to 6. This de-emphasis was not necessarily in the overall reading program for the elementary grades. The results in our data could have been produced by inadequate attention to those children who had not mastered the basic skills taught in earlier grades. Finding (5) would suggest that it was the children in the low average range (those not far enough below expected level to be classified as underachievers, but not having complete mastery of basic reading skills) who were the most likely to show a decrease from grades 3 to 6.

Finding (3) suggests that overachievers have attained sufficient skills by the end of the 3rd grade to insure their continued development of reading ability even under conditions that result in a decrease in grade placement for other students. Even with overachievers, however, it is necessary to consider the relationships of both relative and normative level to the pattern of achievement from grades 3 to 6. It was true that overachievers as a total group (drawn from the full range of IQ scores) had the same high reading level in grades 3 and 6. It was also true, however, that

the majority of this group was reading above grade placement in the 3rd grade, so that adequate mastery of basic reading skills was also a general characteristic of overachievers.¹⁴ Overachievers in the high and low IQ groups, however, did not show the same pattern of achievement. High IQ overachievers, virtually all of whom were reading above grade placement in the 3rd grade, actually accelerated in reading level from 1.3 grade units above the norm in the 3rd grade to a full two grades above placement in grade 6. In contrast, a substantial proportion of the low IQ overachievers were not reading at grade placement in the 3rd grade. The performance of this group decreased .6 grade units between the 3rd and 6th grades. Thus, normative achievement level, or mastery of basic reading skills, was related to the performance of overachievers. The decrease in performance of the low IQ overachievers, however, was only half as great as that experienced by high IQ underachievers whose 3rd grade reading level was higher, illustrating the independent relationship that relative achievement status had to the longitudinal pattern of reading achievement.

The concept of relative achievement provides useful information in that it seems to have effects that are independent of normative

¹⁴ Overachievers had a mean 3rd grade reading score of 4.3, with a standard deviation of .85. The mean of the group was one standard deviation above grade placement (3.4); therefore it is estimated that 85% of that group had acquired average or better reading skills.

achievement and ability level. It would be dangerous, however, to use relative achievement without also considering normative level of achievement, i.e., to ignore a reading level below grade placement because a child is an overachiever for his mental ability level. Since both relative and normative achievement level appear to have effects on subsequent achievement, it is necessary to consider both in interpreting results of group data, particularly in translating findings into expectations for individual students.

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Reading Achievement
And Its Relationship to Academic Performance
Supplemental Data on High and Low IQ and SES
Groups in Four Race-by-Sex Samples

Dee Norman Lloyd

Mental Health Study Center
National Institute of Mental Health

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Reading Achievement and Its Relationship to Academic Performance

Supplemental Data on High and Low IQ and SES Groups in Four Race-by-Sex Samples

This supplement contains performance data of underachievers, average achievers, and overachievers in reading within each of the four race-by-sex samples, further stratified by ability level (IQ) and by parent's socio-economic status (SES).

These data were used to supplement analyses reported in Parts II and III of this study, but were not tabled in those reports. They are summarized here so as to be available to those interested in the characteristics related to reading achievement within these more specific groupings.

The data provide the means, standard deviations, and analysis of variance comparisons across achievement groups on 57 variables measuring elementary and secondary school performance and family background characteristics.

The data are presented in 16 sections:

1. White males - High SES (levels 1-3)
2. " " - Low SES (levels 4 & 5)
3. " " - High IQ (IQ scores 100 and above)
4. " " - Low IQ (IQ scores below 100)
5. White females - High SES (levels 1-3)
6. " " - Low SES (levels 4 & 5)
7. " " - High IQ (IQ scores 100 and above)
8. " " - Low IQ (IQ scores below 100)
9. Negro males - High SES (levels 1-4)
10. " " - Low SES (level 5)
11. " " - High IQ (IQ scores 86 and above)
12. " " - Low IQ (IQ scores 85 and below)
13. Negro females - High SES (levels 1-4)
14. " " - Low SES (level 5)
15. " " - High IQ (IQ scores 86 and above)
16. " " - Low IQ (IQ scores 85 and below)

Classification of High and Low IQ groups was based on scores earned on the California Test of Mental Maturity (CTMM) administered in the 6th grade. Classification into High and Low SES levels was made using the Hollingshead Two-Factor Index of Social Position. This index consists of a weighted composite of the occupational and educational levels of the subject's father when the subject was in the 6th grade.

The stratifications into High and Low IQ and High and Low SES groups differ in the white and Negro samples. Divisions were made close to the means of the samples on these measures so as to achieve a balanced comparison. High and Low IQ levels were defined as above and below an IQ score of 100 in the white samples, and above and below an IQ score of 86 in the Negro samples. High SES consisted of levels 1 through 3 in the white samples, and 1 through 4 in the Negro samples.

In each section, the three achievement groups are compared on the same 57 variables. The variables (J) are numbered as follows:

- 1 Age in 6th Grade (Months)
- 2 Education Level of Father
- 3 Education Level of Mother
- 4 Number of Siblings
- 5 Occupation Level of Father
- 6 SES Level
- 7 6th Grade Point Average*
- 8 6th Grade CTMM IQ Score
- 9 Days Absent 1st Grade
- 10 Days Absent 2nd Grade
- 11 Days Absent 3rd Grade
- 12 Days Absent 4th Grade

- 13 3rd CAT - Reading Total*
- 14 6th CAT - Reading Vocabulary*
- 15 Outcome (Dropout or Graduation)
- 16 6th CAT - Reading Comprehension*
- 17 3rd CTMM IQ Score
- 18 6th CAT - Reading Total*
- 19 6th CAT - Arithmetic Total*
- 20 6th CAT - Language Total*
- 21 English GPA*
- 22 Social Studies GPA*
- 23 Science GPA*
- 24 Mathematics GPA*
- 25 Business GPA*
- 26 Vocational GPA*
- 27 Foreign Language GPA*
- 28 Music GPA*
- 29 Art GPA*
- 30 Physical Education GPA*
- 31 GPA (Full Unit) 7th Grade*
- 32 GPA (Full Unit) 8th Grade*
- 33 GPA (Full Unit) 9th Grade*
- 34 GPA (Full Unit) 10th Grade*
- 35 GPA (Full Unit) 11th Grade*
- 36 GPA (Full Unit) 12th Grade*
- 37 Lorge-Thorndike IQ Score (7th Grade)
- 38 Lorge-Thorndike IQ Score (10th Grade)
- 39 Cornell Medical Index (11th Grade)
- 40 SAT Reading Average (7th Grade)*
- 41 SAT Spelling (7th Grade)*
- 42 SAT Language (7th Grade)*
- 43 SAT Arithmetic Average (7th Grade)*
- 44 SAT Average Achievement Score (7th Grade)*
- 45 SAT Paragraph Meaning (9th Grade)*
- 46 SAT Word Meaning (9th Grade)*
- 47 SAT Reading Average (9th Grade)*
- 48 ITED Social Concepts (9th Grade)
- 49 ITED Natural Science (General) (9th Grade)
- 50 ITED English Expression (9th Grade)
- 51 ITED Quantitative Thinking (9th Grade)
- 52 ITED Social Studies Reading (9th Grade)
- 53 ITED Natural Science Reading (9th Grade)
- 54 ITED Literature (9th Grade)
- 55 ITED Vocabulary (9th Grade)
- 56 ITED Use of Information (9th Grade)
- 57 Discrepancy Score (6th CAT - Reading Total
minus 6th CTMM Predicted Reading Total)

Variables followed by an asterisk (*) are fractional scores (GPA's and grade equivalent scores) that were treated as whole numbers in the computations. The decimal on means and standard deviations of these variables should be moved one place to the left for interpretation.

Coding procedures for family background and absence measures are found in the procedures sections of the main reports.

A constant of 10 was added to discrepancy scores (Variable #57) to avoid handling negative numbers in computations. The means of the race-by-sex samples (total column) therefore appear as 10 rather than 0. This score is also in grade equivalents, but treated as a whole number in computations and should have the decimal on the mean and standard deviation moved one place to the left for interpretation.

The ω^2 statistic represents the proportion of variance accounted for across achievement groups, in contrast to tables in the main reports where this statistic was given as a percentage.

LLUYD 1-14: READING DEFICIENCY ANALYSIS OF VARIANCE KUNS

LLUYD 1-14: WHITE MALLS - High SES

J	N	M	SD	1	2	3	TOTAL	SOURCE	SUM OF SQUARES	JF	MEAN SQUARE	F RATIO	U-MEWA SD
1	N	M	SD	98 136.092 5.863	486 139.043 5.638	136 140.852 6.515	720 139.261 5.698	BETWEEN GROUPS WITHIN GROUPS TOTAL	514.5274 24482.3837 24996.9111	2 717 719	257.2637 34.1456	7.5343	0.00176
2	N	M	SD	97 2.629 1.635	480 2.323 1.599	136 2.362 1.597	713 2.376 1.605	BETWEEN GROUPS WITHIN GROUPS TOTAL	7.5003 1825.7047 1833.2651	2 710 712	3.7602 2.5714	1.4701	0.0013
3	N	M	SD	97 3.113 1.554	483 2.874 1.605	135 2.903 1.557	715 2.923 1.586	BETWEEN GROUPS WITHIN GROUPS TOTAL	4.9058 1795.8035 1800.7692	2 712 714	2.4529 2.5223	0.9725	-0.0001
4	N	M	SD	98 1.867 1.455	486 1.805 1.430	136 1.610 1.048	720 1.776 1.371	BETWEEN GROUPS WITHIN GROUPS TOTAL	4.9475 1346.0511 1350.9986	2 717 719	2.4737 1.8773	1.3177	0.0009
5	N	M	SD	94 2.915 1.133	479 2.833 1.268	135 2.726 1.200	708 2.823 1.238	BETWEEN GROUPS WITHIN GROUPS TOTAL	2.1136 1080.8172 1082.9308	2 705 707	1.0568 1.5331	0.6893	-0.0009
6	N	M	SD	98 2.316 0.845	486 2.206 0.880	136 2.176 0.902	720 2.215 0.879	BETWEEN GROUPS WITHIN GROUPS TOTAL	1.2495 554.3825 555.6319	2 717 719	0.6247 0.7732	0.6080	-0.0005
7	N	M	SD	95 17.737 4.825	467 20.268 4.628	129 21.977 4.818	691 20.239 4.834	BETWEEN GROUPS WITHIN GROUPS TOTAL	984.7075 15138.8930 16123.6006	2 688 690	492.3538 22.0042	22.3754	0.0563
8	N	M	SD	98 107.551 14.566	486 108.977 15.759	136 106.044 16.626	720 108.229 15.792	BETWEEN GROUPS WITHIN GROUPS TOTAL	506.4563 178346.7312 178853.1875	2 717 719	483.2281 248.7402	1.9427	0.0026
9	N	M	SD	47 2.894 1.108	252 3.060 1.330	63 3.286 1.419	362 3.077 1.321	BETWEEN GROUPS WITHIN GROUPS TOTAL	4.4019 625.4324 629.8343	2 359 361	2.2009 1.7422	1.2633	0.0015
10	N	M	SD	51 2.745 1.197	281 2.580 1.193	71 2.817 1.187	403 2.643 1.193	BETWEEN GROUPS WITHIN GROUPS TOTAL	3.7915 568.7544 572.5459	2 400 402	1.8957 1.4219	1.3333	0.0017
11	N	M	SD	64 2.594 1.123	329 2.754 1.162	83 2.964 1.292	476 2.769 1.183	BETWEEN GROUPS WITHIN GROUPS TOTAL	5.1930 659.3868 664.5798	2 473 475	2.5965 1.3941	1.8626	0.0036
12	N	M	SD	71 2.296 1.224	366 2.227 1.142	93 2.473 1.239	530 2.279 1.172	BETWEEN GROUPS WITHIN GROUPS TOTAL	4.5226 722.1491 726.6717	2 527 529	2.2613 1.3703	1.6502	0.0024

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LLLOYD 1-14: READING DEFICIENCY ANALYSIS OF VARIANCE RUNS

LLLOYD 1-14: WHITE MALES - High SEE

J	N	M	SU	1	2	3	TOTAL	SOURCE	SUM OF SQUARES	UF	MEAN SQUARE	F RATIO	OMEGA SQ
13	M	M	SU	62 34.242 9.598	327 40.073 8.689	83 43.952 7.256	472 39.989 8.971	BETWEEN GROUPS WITHIN GROUPS TOTAL	3353.5303 34551.4167 37504.9470	2 469 471	1676.7652 73.6704	22.7604	0.0844
14	M	M	SU	98 45.031 13.517	486 61.177 15.051	136 72.265 15.169	720 61.074 16.716	BETWEEN GROUPS WITHIN GROUPS TOTAL	42260.9380 158656.1606 200917.0986	2 717 719	21130.4690 221.2778	95.4930	0.2079
15	M	M	SU	73 2.726 0.449	369 2.810 0.402	94 2.872 0.335	536 2.813 0.399	BETWEEN GROUPS WITHIN GROUPS TOTAL	0.8858 84.4575 85.3433	2 533 535	0.4429 0.1585	2.7951	0.0067
16	M	M	SU	98 52.908 11.694	486 64.459 13.670	136 74.331 16.019	720 64.751 15.140	BETWEEN GROUPS WITHIN GROUPS TOTAL	20267.5379 138530.9607 164798.4986	2 717 719	13133.7689 193.2092	67.9770	0.1569
17	M	M	SU	61 109.197 15.053	335 114.066 15.093	83 114.145 13.356	479 113.459 14.862	BETWEEN GROUPS WITHIN GROUPS TOTAL	1270.4965 104308.4596 105578.9502	2 476 478	635.2483 219.1354	2.8989	0.0079
18	M	M	SU	98 47.898 11.405	486 62.368 12.956	136 72.941 13.973	720 62.390 14.735	BETWEEN GROUPS WITHIN GROUPS TOTAL	35722.6065 120391.5810 156114.1875	2 717 719	17861.3032 167.9102	106.3742	0.2204
19	M	M	SU	98 58.480 7.791	482 63.214 7.936	134 64.321 8.960	714 62.772 8.297	BETWEEN GROUPS WITHIN GROUPS TOTAL	2221.1382 46860.6503 49081.7885	2 711 713	1110.5691 65.9081	16.8503	0.0425
20	M	M	SU	98 55.286 9.861	478 61.992 9.308	136 64.603 9.175	712 61.567 9.734	BETWEEN GROUPS WITHIN GROUPS TOTAL	2206.2387 62162.5254 67368.7640	2 709 711	2603.1193 87.6763	29.6901	0.0746
21	M	M	SU	87 26.529 7.325	458 30.854 9.281	121 34.207 9.440	666 30.898 9.312	BETWEEN GROUPS WITHIN GROUPS TOTAL	2986.3455 54078.7116 57665.0571	2 603 605	1493.1727 82.4717	18.1053	0.0489
22	M	M	SU	87 27.885 8.008	458 31.996 9.475	121 35.562 9.631	666 32.107 9.552	BETWEEN GROUPS WITHIN GROUPS TOTAL	3000.8040 57676.5270 60677.4309	2 603 605	1500.4020 86.9934	17.2473	0.0465
23	M	M	SU	74 26.770 8.397	405 29.704 10.064	103 33.029 10.466	582 29.919 10.076	BETWEEN GROUPS WITHIN GROUPS TOTAL	1748.7528 57238.4517 58987.2045	2 579 581	874.3764 98.8574	8.8448	0.0263
24	M	M	SU	87 27.057 6.083	457 30.744 9.864	121 33.240 10.540	665 30.716 9.913	BETWEEN GROUPS WITHIN GROUPS TOTAL	1955.4760 63317.8082 65253.2842	2 662 664	967.7380 95.6462	10.1179	0.0267

LLOYD 1-14: READING DEFICIENCY ANALYSIS OF VARIANCE RUNS

LLOYD 1-148: WHITE MALES - High SES

J	N	M	SD	1	2	3	TOTAL	SOURCE	SUM OF SQUARES	DF	MEAN SQUARE	F RATIO	MEAN SQUARE
25	N	M	SD	33	182	53	268	BETWEEN GROUPS	1287.0663	2	643.8331	4.7297	0.0271
				24.242	28.104	32.038	28.407	WITHIN GROUPS	36073.0016	205	136.1245		
				10.446	11.711	12.213	11.829	TOTAL	37360.6079	267			
26	N	M	SD	87	456	119	662	BETWEEN GROUPS	921.2518	2	460.6259	7.0278	0.0179
				32.770	35.000	37.034	35.073	WITHIN GROUPS	43193.2678	659	65.5437		
				6.696	8.182	8.674	8.169	TOTAL	44114.5196	661			
27	N	M	SD	44	272	75	391	BETWEEN GROUPS	1259.4936	2	629.7468	4.2450	0.0163
				22.750	27.445	29.560	27.322	WITHIN GROUPS	59387.9028	388	153.0616		
				10.431	12.661	12.339	12.474	TOTAL	60987.3964	390			
28	N	M	SD	87	450	121	658	BETWEEN GROUPS	1316.9719	2	658.4859	7.3979	0.0191
				33.299	37.031	38.174	36.748	WITHIN GROUPS	58301.1497	655	89.0094		
				8.982	9.288	10.257	9.526	TOTAL	59618.1216	657			
29	N	M	SD	83	423	103	609	BETWEEN GROUPS	473.8677	2	236.9338	2.7686	0.0058
				31.614	33.409	34.825	33.404	WITHIN GROUPS	51860.7629	606	85.5788		
				9.038	9.419	8.701	9.278	TOTAL	52334.6305	608			
30	N	M	SD	87	455	119	661	BETWEEN GROUPS	255.7906	2	127.8983	2.6677	0.0050
				38.287	39.732	40.529	39.685	WITHIN GROUPS	31546.7511	658	47.9434		
				6.245	7.120	6.624	6.942	TOTAL	31802.5477	660			
31	N	M	SD	89	453	125	667	BETWEEN GROUPS	3417.4867	2	1708.7433	17.7323	0.0476
				28.371	33.300	36.472	33.237	WITHIN GROUPS	63935.0860	664	96.3631		
				8.705	10.130	9.391	10.060	TOTAL	67402.5727	666			
32	N	M	SD	82	432	112	626	BETWEEN GROUPS	2943.5664	2	1471.7832	13.7346	0.0391
				29.037	33.051	36.875	33.209	WITHIN GROUPS	66700.0199	623	107.1589		
				9.241	10.604	10.124	10.561	TOTAL	69703.5863	625			
33	N	M	SD	76	407	104	587	BETWEEN GROUPS	2071.8552	2	1035.9276	11.0886	0.0332
				28.000	32.287	34.846	32.186	WITHIN GROUPS	34250.9046	584	93.4228		
				8.390	9.669	10.485	9.831	TOTAL	5650.7598	586			
34	N	M	SD	72	381	98	551	BETWEEN GROUPS	1258.4087	2	629.2043	2.8887	0.0174
				26.097	28.843	31.561	28.967	WITHIN GROUPS	38223.0033	548	106.8485		
				7.431	10.665	10.848	10.428	TOTAL	39811.4120	550			
35	N	M	SD	62	315	84	461	BETWEEN GROUPS	950.3070	2	475.1535	5.9517	0.0210
				26.726	29.844	31.881	29.796	WITHIN GROUPS	36564.5260	458	79.8352		
				8.078	9.047	9.108	9.031	TOTAL	37514.8330	460			
36	N	M	SD	54	292	83	429	BETWEEN GROUPS	309.0721	2	254.0376	3.0527	0.0131
				29.500	31.743	33.434	31.788	WITHIN GROUPS	26089.0218	426	65.9381		
				6.804	8.097	8.943	8.174	TOTAL	28597.6970	428			

LLJYD 1-14: READING EFFICIENCY ANALYSIS OF VARIANCE KUNS

LLJYD 1-145: WHITE MALES - High SES

J	N	M	SD	1	2	3	TOTAL	SOURCE	SUM OF SQUARES	DF	MEAN SQUARE	F RATIO	OMEGA S ²
37	N	M	SD	85 98.551 14.063	449 107.151 15.181	115 111.217 15.987	653 106.695 15.574	BETWEEN GROUPS WITHIN GROUPS TOTAL	8349.0660 14979.2892 158138.3553	2 650 652	4174.5330 230.4451	18.1151	0.0498
38	N	M	SD	65 111.923 14.429	329 112.474 14.567	90 113.489 14.567	484 111.246 15.046	BETWEEN GROUPS WITHIN GROUPS TOTAL	6598.6071 102749.1347 109347.7417	2 481 483	3299.3035 213.6157	15.4450	0.0563
39	N	M	SD	37 2.784 1.250	203 2.522 1.224	58 2.586 1.093	298 2.567 1.202	BETWEEN GROUPS WITHIN GROUPS TOTAL	2.1682 426.9895 429.1577	2 295 297	1.0841 1.4474	0.7490	-0.0017
40	N	M	SD	83 11.771 19.566	430 75.793 20.755	116 82.621 21.969	629 75.202 21.607	BETWEEN GROUPS WITHIN GROUPS TOTAL	21506.8177 271688.5400 293195.3577	2 626 628	10753.4088 434.0073	24.7770	0.0703
41	N	M	SD	84 20.202 15.796	435 65.580 18.093	118 69.398 18.371	637 65.055 18.223	BETWEEN GROUPS WITHIN GROUPS TOTAL	8931.7205 202273.3564 211205.0769	2 634 636	4465.8602 319.0431	13.9977	0.0392
42	N	M	SD	79 50.562 20.014	430 65.533 24.100	116 71.081 25.191	625 64.784 24.521	BETWEEN GROUPS WITHIN GROUPS TOTAL	21692.3823 353505.4577 375197.8400	2 622 624	10846.1912 568.3367	19.0841	0.0547
43	N	M	SD	85 54.812 12.233	432 71.530 13.866	117 72.650 13.484	634 70.836 13.780	BETWEEN GROUPS WITHIN GROUPS TOTAL	3677.7106 116523.2295 120200.9401	2 631 633	1838.8553 184.6644	9.9578	0.0275
44	N	M	SD	80 59.763 14.293	411 70.912 16.777	114 75.360 16.365	605 70.276 16.961	BETWEEN GROUPS WITHIN GROUPS TOTAL	11955.3139 161807.5886 173762.9025	2 602 604	5977.6569 268.7834	22.2397	0.0656
45	N	M	SD	57 66.632 22.624	303 101.970 19.186	76 105.658 15.627	436 100.869 19.728	BETWEEN GROUPS WITHIN GROUPS TOTAL	10646.4471 158653.1011 169299.5482	2 433 435	5323.2235 366.4044	14.5283	0.0584
46	N	M	SD	57 91.509 23.002	303 105.043 16.599	76 110.711 14.385	436 104.261 18.002	BETWEEN GROUPS WITHIN GROUPS TOTAL	12615.8732 128354.3194 140970.1927	2 433 435	6307.9366 296.4303	21.2797	0.0851
47	N	M	SD	57 90.035 21.179	303 103.422 16.789	76 108.184 13.649	436 102.502 17.668	BETWEEN GROUPS WITHIN GROUPS TOTAL	11569.7194 124213.2783 135782.9977	2 433 435	5784.8597 286.8667	20.1657	0.0808
48	N	M	SD	65 11.696 5.339	349 15.384 5.610	87 15.943 5.925	505 14.976 5.772	BETWEEN GROUPS WITHIN GROUPS TOTAL	861.8434 15907.8715 16789.7149	2 502 504	440.9217 31.6890	13.9140	0.0487

LLJYJ 1-14: READING DEFICIENCY ANALYSIS OF VARIANCE RUNS

LLJYJ 1-14d: WHITE MALES - HIGH SES

J	N	M	SD	1	2	3	TOTAL	SOURCE	SUM OF SQUARES	DF	MEAN SQUARE	F RATIO	UMEGA SD
49	68	14.147	6.062	346	17.058	86	500	BETWEEN GROUPS	383.9263	2	291.9632	8.9759	0.0309
	M	17.779	5.965	16.786			16.786	WITHIN GROUPS	16100.1757	497	32.5275		
	SD	5.554		5.794			5.794	TOTAL	16756.1020	499			
50	70	11.329	3.977	349	14.203	94	513	BETWEEN GROUPS	893.4004	2	340.7032	15.1773	0.0524
	M	15.383	5.312	14.027			14.027	WITHIN GROUPS	11020.2115	510	22.8436		
	SD	4.775		4.910			4.910	TOTAL	12343.6179	512			
51	70	13.929	5.325	353	16.688	90	513	BETWEEN GROUPS	536.8213	2	268.4107	7.0255	0.0230
	M	17.344	6.565	16.427			16.427	WITHIN GROUPS	19484.6875	510	38.2053		
	SD	6.237		6.253			6.253	TOTAL	20021.5088	512			
52	68	11.397	5.376	350	15.700	89	507	BETWEEN GROUPS	1378.1583	2	689.0792	21.6009	0.0752
	M	17.101	5.479	15.369			15.369	WITHIN GROUPS	16077.8693	504	31.9005		
	SD	5.524		5.674			5.674	TOTAL	17456.0276	506			
53	67	11.104	5.442	350	14.763	91	508	BETWEEN GROUPS	907.0001	2	453.5001	11.9315	0.0413
	M	15.015	6.685	14.433			14.433	WITHIN GROUPS	19207.1243	505	38.0339		
	SD	6.157		6.299			6.299	TOTAL	20114.7244	507			
54	66	9.042	5.130	354	13.136	89	509	BETWEEN GROUPS	1276.4560	2	638.2283	20.6456	0.0717
	M	14.663	5.992	12.872			12.872	WITHIN GROUPS	15642.2428	506	30.9135		
	SD	5.524		5.771			5.771	TOTAL	16918.6944	508			
55	71	11.718	4.969	350	15.571	89	510	BETWEEN GROUPS	1663.2948	2	531.6474	19.2942	0.0669
	M	16.517	5.366	15.200			15.200	WITHIN GROUPS	13970.3052	507	27.5548		
	SD	5.274		5.435			5.435	TOTAL	15633.6000	509			
56	69	11.884	6.031	349	15.544	88	506	BETWEEN GROUPS	951.3259	2	475.6630	14.4658	0.0505
	M	16.511	5.901	15.213			15.213	WITHIN GROUPS	16539.6227	503	32.8820		
	SD	5.632		5.885			5.885	TOTAL	17490.9486	505			
57	98	87.143	3.739	486	100.506	136	720	BETWEEN GROUPS	3582.6604	2	19901.3302	995.7729	0.7343
	M	113.390	4.950	101.121			101.121	WITHIN GROUPS	14329.8271	717	19.9658		
	SD	4.464		8.677			8.677	TOTAL	54132.4875	719			

LLOYD 1-14: READING DEFICIENCY ANALYSIS OF VARIANCE RUNS

LLOYD 1-14C: WHITE MALES - Low SES

J	N	M	SD	1	2	3	TOTAL	SOURCE	SUM OF SQUARES	DF	MEAN SQUARE	F RATIO	OMEGA SQ
1	N	137			560	116	813	BETWEEN GROUPS	647.3417	2	323.6708	6.5909	0.0136
	M	140.015	140.952	143.121	141.103			WITHIN GROUPS	39777.9794	810	49.1086		
	SD	5.994	6.982	8.153	7.056			TOTAL	40425.3210	812			
2	N	136			554	114	804	BETWEEN GROUPS	1.4844	2	0.7422	0.7536	-0.0006
	M	4.757	4.657	4.614	4.668			WITHIN GROUPS	788.8477	801	0.9848		
	SD	1.029	0.969	1.060	0.992			TOTAL	790.3321	803			
3	N	135			555	114	804	BETWEEN GROUPS	0.2122	2	0.1061	0.0750	-0.0023
	M	4.320	4.283	4.281	4.290			WITHIN GROUPS	1133.2642	801	1.4148		
	SD	1.202	1.220	1.009	1.188			TOTAL	1133.4764	803			
4	N	137			560	116	813	BETWEEN GROUPS	8.8465	2	4.4232	1.3317	0.0008
	M	2.504	2.316	2.129	2.321			WITHIN GROUPS	2090.3639	810	3.3214		
	SD	1.856	1.846	1.660	1.823			TOTAL	2699.2103	812			
5	N	132			552	115	799	BETWEEN GROUPS	0.2180	2	0.1090	0.2885	-0.0018
	M	5.273	5.283	5.235	5.274			WITHIN GROUPS	300.7557	796	0.3778		
	SD	0.619	0.581	0.753	0.614			TOTAL	300.9737	798			
6	N	137			560	116	813	BETWEEN GROUPS	0.2893	2	0.1447	1.3068	0.0008
	M	4.161	4.114	4.147	4.127			WITHIN GROUPS	89.6615	810	0.1107		
	SD	0.368	0.318	0.355	0.333			TOTAL	89.9508	812			
7	N	132			539	114	785	BETWEEN GROUPS	546.9963	2	473.4982	19.8872	0.0459
	M	15.909	18.312	19.693	18.108			WITHIN GROUPS	18618.7998	782	23.8092		
	SD	4.698	4.909	4.946	4.996			TOTAL	19565.7962	784			
8	N	137			560	116	813	BETWEEN GROUPS	937.7090	2	468.8545	1.8015	0.0020
	M	100.971	99.400	97.121	99.339			WITHIN GROUPS	210810.5936	810	260.2600		
	SD	14.295	15.957	18.807	16.148			TOTAL	211748.3026	812			
9	N	74			315	65	454	BETWEEN GROUPS	4.0634	2	2.0317	1.0379	0.0002
	M	2.824	2.863	3.123	2.894			WITHIN GROUPS	832.8618	451	1.9576		
	SD	1.275	1.411	1.474	1.399			TOTAL	836.9251	453			
10	N	85			354	69	508	BETWEEN GROUPS	2.8817	2	1.4409	0.8309	-0.0007
	M	2.412	2.588	2.667	2.569			WITHIN GROUPS	875.7069	505	1.7341		
	SD	1.168	1.331	1.411	1.316			TOTAL	878.5886	507			
11	N	97			395	60	572	BETWEEN GROUPS	9.3216	2	4.6608	3.1996	0.0076
	M	2.897	2.585	2.467	2.624			WITHIN GROUPS	828.8654	569	1.4567		
	SD	1.254	1.186	1.253	1.212			TOTAL	838.1871	571			
12	N	106			442	86	634	BETWEEN GROUPS	2.1065	2	1.0532	0.6522	-0.0011
	M	2.461	2.355	2.279	2.366			WITHIN GROUPS	1018.9976	631	1.6149		
	SD	1.354	1.256	1.243	1.270			TOTAL	1021.1041	633			

LLJYU 1-14: READING DEFICIENCY ANALYSIS OF VARIANCE RUNS

LLJYU 1-14C: WHITE MALES - Low SES

J	N	M	SU	1	2	3	TOTAL	SOURCE	SUM OF SQUARES	DF	MEAN SQUARE	F RATIO	UMEGA SQ
13	N			84	374	74	537	BETWEEN GROUPS	2784.1500	2	1392.0750	17.3993	0.0576
	M			31.213	35.733	39.403	35.490	WITHIN GROUPS	42724.0437	534	80.0076		
	SU			8.748	8.852	9.433	9.214	TOTAL	45508.1937	536			
14	N			137	560	116	813	BETWEEN GROUPS	45098.9240	2	22549.4620	36.5958	0.0805
	M			38.706	53.134	65.310	52.450	WITHIN GROUPS	459102.3085	810	566.1757		
	SU			12.324	28.105	17.911	25.888	TOTAL	544201.2325	812			
15	N			115	472	100	687	BETWEEN GROUPS	0.6928	2	0.3464	1.3981	0.0012
	M			2.609	2.646	2.720	2.651	WITHIN GROUPS	169.4644	684	0.2478		
	SU			0.508	0.503	0.473	0.498	TOTAL	170.1572	686			
16	N			137	557	116	810	BETWEEN GROUPS	24734.2539	2	12367.1270	78.3499	0.1604
	M			47.834	56.768	67.081	56.821	WITHIN GROUPS	127380.7893	807	157.8448		
	SU			11.277	12.048	15.985	13.712	TOTAL	152115.0432	809			
17	N			92	395	82	569	BETWEEN GROUPS	925.5892	2	462.7946	1.7552	0.0026
	M			103.815	104.281	107.793	104.712	WITHIN GROUPS	149241.1419	566	263.6769		
	SU			15.494	16.070	17.796	16.260	TOTAL	150166.7311	568			
18	N			137	560	116	813	BETWEEN GROUPS	37661.8601	2	18830.9301	110.1567	0.2117
	M			42.066	53.839	66.534	53.667	WITHIN GROUPS	138456.8065	810	170.9467		
	SU			10.849	13.012	15.553	14.728	TOTAL	176128.6667	812			
19	N			137	553	114	804	BETWEEN GROUPS	2495.3030	2	1247.6515	17.8288	0.0402
	M			55.905	59.121	62.211	59.011	WITHIN GROUPS	56053.5903	801	69.9795		
	SU			8.016	8.353	8.824	8.539	TOTAL	58548.8993	803			
20	N			134	552	114	800	BETWEEN GROUPS	5406.4595	2	2703.2298	27.3872	0.0619
	M			51.851	56.850	61.140	56.624	WITHIN GROUPS	78667.2892	797	98.7043		
	SU			9.271	10.041	10.168	10.258	TOTAL	84073.7488	799			
21	N			132	523	109	764	BETWEEN GROUPS	1917.5403	2	958.7702	16.1244	0.0381
	M			22.280	25.421	27.853	25.225	WITHIN GROUPS	45249.7371	761	59.4609		
	SU			5.934	7.962	8.356	7.862	TOTAL	47167.2775	763			
22	N			132	524	109	765	BETWEEN GROUPS	1713.8883	2	856.9442	13.0805	0.0306
	M			23.311	25.906	28.661	25.851	WITHIN GROUPS	49921.1235	762	65.5133		
	SU			6.870	8.203	8.895	8.221	TOTAL	51635.0118	764			
23	N			110	456	99	665	BETWEEN GROUPS	515.6267	2	257.8134	3.5018	0.0075
	M			22.909	24.886	25.919	24.713	WITHIN GROUPS	48738.5146	662	73.6231		
	SU			8.002	8.563	9.256	8.613	TOTAL	49254.1414	664			
24	N			132	524	109	765	BETWEEN GROUPS	2286.9461	2	1143.4731	16.8332	0.0397
	M			22.136	25.685	28.174	25.427	WITHIN GROUPS	51762.2774	762	67.9295		
	SU			6.831	8.518	8.447	8.411	TOTAL	54049.2235	764			

LLLOYD 1-14: READING DEFICIENCY ANALYSIS OF VARIANCE RUNS

LLLOYD 1-1+C: WHITE MALES - Low SES

J	N	M	SU	1	2	3	TOTAL	SOURCE	SUM OF SQUARES	DF	MEAN SQUARE	F RATIO	JMEVA SW
25	N	55				53	349	BETWEEN GROUPS	76.7524	2	38.3762	0.4741	-J.00030
	M	22.691	23.959	23.396	23.673			WITHIN GROUPS	2800.0098	348	80.9480		
	SU	8.057	9.290	8.536	8.984			TOTAL	2804.7622	348			
26	N	132				109	763	BETWEEN GROUPS	225.4959	2	112.7479	1.6871	0.0018
	M	29.561	30.546	31.495	30.511			WITHIN GROUPS	50789.1594	750	66.8276		
	SU	7.264	8.378	8.224	8.182			TOTAL	51014.6553	752			
27	N	33				47	276	BETWEEN GROUPS	1161.2012	2	580.6006	4.5120	J.00248
	M	16.909	22.362	24.447	22.065			WITHIN GROUPS	35127.6249	273	128.6799		
	SU	8.762	11.681	11.483	11.488			TOTAL	36240.8261	275			
28	N	130				105	749	BETWEEN GROUPS	1056.3017	2	528.1508	0.5593	0.0146
	M	29.069	31.951	32.981	31.595			WITHIN GROUPS	62342.1229	746	83.5685		
	SU	8.804	9.358	8.448	9.209			TOTAL	63438.4246	748			
29	N	122				100	706	BETWEEN GROUPS	260.2331	2	130.1165	1.0961	J.00020
	M	28.016	29.581	29.770	29.337			WITHIN GROUPS	53929.5347	703	76.7134		
	SU	8.311	8.896	8.616	8.767			TOTAL	54169.7677	705			
30	N	131				109	761	BETWEEN GROUPS	130.1168	2	65.0584	1.0691	0.0002
	M	36.824	37.472	38.303	37.480			WITHIN GROUPS	46125.8175	758	60.8520		
	SU	7.199	8.015	7.442	7.801			TOTAL	46255.9343	760			
31	N	131				109	767	BETWEEN GROUPS	3116.7668	2	1558.3834	18.5269	0.0437
	M	24.023	28.188	31.083	27.888			WITHIN GROUPS	64263.5905	764	84.1146		
	SU	7.855	9.426	9.385	9.379			TOTAL	67380.3572	766			
32	N	123				104	716	BETWEEN GROUPS	2137.9215	2	1068.9607	12.5610	J.00313
	M	23.964	27.145	30.115	27.034			WITHIN GROUPS	60677.2741	713	85.1014		
	SU	7.846	9.255	10.503	9.373			TOTAL	62815.1955	715			
33	N	111				100	678	BETWEEN GROUPS	512.8113	2	256.4056	3.6380	0.0077
	M	25.306	27.026	28.400	26.947			WITHIN GROUPS	47573.2772	675	70.4789		
	SU	7.095	8.639	8.563	8.428			TOTAL	48086.0885	677			
34	N	102				95	617	BETWEEN GROUPS	590.9684	2	295.4842	3.9885	0.0096
	M	22.990	24.845	26.442	24.784			WITHIN GROUPS	45487.3623	614	74.0837		
	SU	7.432	8.724	9.235	8.649			TOTAL	46078.3306	616			
35	N	80				80	499	BETWEEN GROUPS	267.1334	2	133.5667	2.3703	J.0055
	M	23.925	25.693	26.337	25.513			WITHIN GROUPS	27949.5319	496	56.3499		
	SU	6.156	7.592	8.326	7.527			TOTAL	28216.6653	498			
36	N	69				69	437	BETWEEN GROUPS	564.5785	2	282.2893	5.9809	J.0223
	M	25.232	27.880	29.101	27.654			WITHIN GROUPS	20484.2453	434	47.1987		
	SU	5.657	7.024	7.280	6.948			TOTAL	21048.8238	436			

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LLJYU 1-14: READING DEFICIENCY ANALYSIS OF VARIANCE RUNS

LLJYU 1-14C: WHITE MALES - Low SES

J	N	M	SD	1	2	3	TOTAL	SOURCE	SUM OF SQUARES	DF	MEAN SQUARE	F RATIO	OMEGA SQ
37	N	M	SD	120 92.571 13.049	512 97.260 14.254	106 103.783 16.280	744 97.399 14.711	BETWEEN GROUPS WITHIN GROUPS TOTAL	7265.6979 153526.7416 160792.4395	2 741 743	3632.8490 207.1886	17.5340	0.0426
38	N	M	SD	88 99.091 13.508	375 103.237 13.173	85 105.718 15.441	548 102.956 13.709	BETWEEN GROUPS WITHIN GROUPS TOTAL	1992.5753 100804.3736 102796.9489	2 545 547	996.2877 184.9622	5.3864	0.0158
39	N	M	SD	48 2.875 1.123	227 2.722 1.326	51 3.020 1.349	326 2.791 1.303	BETWEEN GROUPS WITHIN GROUPS TOTAL	4.0701 547.7458 551.8160	2 323 325	2.0351 1.6958	1.2001	0.0012
40	N	M	SD	121 55.983 16.878	505 62.703 18.947	108 75.315 22.142	734 63.451 19.884	BETWEEN GROUPS WITHIN GROUPS TOTAL	22231.0255 267578.7088 289809.7343	2 731 733	11115.5128 366.0447	30.3665	0.0741
41	N	M	SD	126 51.003 13.794	506 56.885 16.117	108 64.491 17.367	740 57.004 16.358	BETWEEN GROUPS WITHIN GROUPS TOTAL	10507.1533 187237.8346 197744.9878	2 737 739	5253.5766 254.0540	20.6790	0.0505
42	N	M	SD	112 46.354 19.471	474 53.781 21.701	107 61.589 24.229	694 53.775 22.156	BETWEEN GROUPS WITHIN GROUPS TOTAL	12756.0050 327436.9287 340192.9337	2 691 693	6378.0025 473.8595	13.4597	0.0347
43	N	M	SD	124 59.710 10.929	504 63.603 12.469	105 67.838 14.048	733 63.551 12.653	BETWEEN GROUPS WITHIN GROUPS TOTAL	3760.9006 113426.4309 117187.3315	2 740 742	1880.4503 155.3787	12.1024	0.0294
44	N	M	SD	115 55.435 12.835	480 60.831 14.750	103 68.243 17.072	698 61.036 15.231	BETWEEN GROUPS WITHIN GROUPS TOTAL	8977.5804 152722.5242 161700.1046	2 695 697	4488.7902 219.7446	20.4273	0.0527
45	N	M	SD	79 84.924 23.393	337 89.427 22.406	74 95.027 24.372	490 89.547 22.998	BETWEEN GROUPS WITHIN GROUPS TOTAL	3515.4613 254727.9591 258643.4204	2 487 489	1957.7307 523.0554	3.7429	0.0111
46	N	M	SD	78 82.282 22.875	336 91.342 21.474	74 94.486 20.141	488 91.129 21.998	BETWEEN GROUPS WITHIN GROUPS TOTAL	11288.9456 224379.9212 235668.8668	2 485 487	5644.4728 462.6390	12.2006	0.0439
47	N	M	SD	78 83.705 22.168	337 90.214 20.857	74 97.257 21.269	489 90.241 21.428	BETWEEN GROUPS WITHIN GROUPS TOTAL	6574.5688 217096.9568 224671.5256	2 486 488	3487.2844 446.7016	7.8067	0.0271
48	N	M	SD	90 10.367 5.377	408 11.870 4.929	85 13.000 5.390	583 11.890 5.137	BETWEEN GROUPS WITHIN GROUPS TOTAL	457.5591 14899.4152 15356.9743	2 580 582	228.7795 25.6886	8.9059	0.0264

LLJYD 1-14: READING DEFICIENCY ANALYSIS OF VARIANCE RUNS

LLJYD 1-14C: WHITE MALES - Low SES

J	N	M	SD	1	2	3	TOTAL	SOURCE	SUM OF SQUARES	DF	MEAN SQUARE	F RATIO	OMEGA S ²
49	N			92	399	85	576	BETWEEN GROUPS	267.8756	2	133.9378	3.8952	0.0100
	M			12.337	13.654	14.788	13.611	WITHIN GROUPS	19703.0133	573	34.3857		
	SD			6.160	5.756	6.040	5.893	TOTAL	15970.8889	575			
50	N			92	403	88	583	BETWEEN GROUPS	342.9790	2	171.4895	7.9773	0.0234
	M			10.033	11.519	12.784	11.475	WITHIN GROUPS	12468.4103	580	21.4973		
	SD			4.275	4.633	5.002	4.692	TOTAL	12811.3894	582			
51	N			92	402	90	584	BETWEEN GROUPS	463.9792	2	231.9896	7.5799	0.0220
	M			12.511	13.289	15.489	13.505	WITHIN GROUPS	17782.0054	581	30.6059		
	SD			5.313	5.491	5.925	5.594	TOTAL	18245.9846	583			
52	N			93	409	85	587	BETWEEN GROUPS	432.1641	2	216.0821	8.7827	0.0258
	M			11.151	12.477	14.259	12.525	WITHIN GROUPS	14368.2277	584	24.6031		
	SD			4.780	4.734	6.097	5.026	TOTAL	14800.3918	586			
53	N			94	409	87	590	BETWEEN GROUPS	423.2850	2	211.6425	6.4292	0.0181
	M			10.181	11.628	13.241	11.636	WITHIN GROUPS	19323.3676	587	32.9189		
	SD			5.761	5.544	6.538	5.790	TOTAL	19746.6525	589			
54	N			93	410	86	589	BETWEEN GROUPS	435.0421	2	217.5210	7.6291	0.0220
	M			8.710	10.444	11.802	10.368	WITHIN GROUPS	16708.0106	586	28.5120		
	SD			5.388	5.120	6.244	5.400	TOTAL	17143.0523	588			
55	N			92	410	88	590	BETWEEN GROUPS	674.1714	2	337.0857	13.3221	0.0401
	M			10.402	12.241	14.273	12.253	WITHIN GROUPS	14852.6692	587	25.3027		
	SD			4.908	4.907	5.685	5.134	TOTAL	15526.8407	589			
56	N			93	402	89	584	BETWEEN GROUPS	425.8336	2	212.9168	8.4344	0.0248
	M			10.570	11.898	13.618	11.949	WITHIN GROUPS	14000.0253	581	25.2438		
	SD			5.400	4.812	5.538	5.088	TOTAL	15026.4589	583			
57	N			137	560	116	813	BETWEEN GROUPS	47351.8723	2	23680.9361	1135.0507	0.7361
	M			86.445	99.423	113.897	99.301	WITHIN GROUPS	16399.2963	810	20.8533		
	SD			4.254	4.551	4.947	4.896	TOTAL	64261.1685	812			

LLOYD 1-14: READING DEFICIENCY ANALYSIS OF VARIANCE RUNS

LLOYD 1-14E: WHITE MALES - High IQ

J		1	2	3	TOTAL	SOURCE	SUM OF SQUARES	DF	MEAN SQUARE	F RATIO	OMEGA SQ
1	N	143	680	161	984	BETWEEN GROUPS	285.9442	2	142.9721	6.7398	0.0115
	M	137.720	138.465	139.615	138.545	WITHIN GROUPS	20810.0884	981	21.2131		
	SD	4.688	4.591	4.594	4.633	TOTAL	21096.0325	983			
2	N	138	652	152	942	BETWEEN GROUPS	14.1936	2	7.0968	2.2531	0.0027
	M	3.529	3.221	3.112	3.248	WITHIN GROUPS	2957.6791	939	3.1498		
	SD	1.760	1.769	1.811	1.777	TOTAL	2971.8726	941			
3	N	136	658	152	946	BETWEEN GROUPS	1.3090	2	0.6545	0.2670	-0.0016
	M	3.478	3.375	3.362	3.388	WITHIN GROUPS	2311.3137	943	2.4510		
	SD	1.455	1.593	1.542	1.564	TOTAL	2312.6226	945			
4	N	143	680	161	984	BETWEEN GROUPS	2.6458	2	1.3229	0.6121	-0.0008
	M	1.818	1.771	1.646	1.757	WITHIN GROUPS	2120.3044	981	2.1614		
	SD	1.452	1.522	1.247	1.470	TOTAL	2122.9502	983			
5	N	133	644	149	926	BETWEEN GROUPS	9.8638	2	4.9319	1.8508	0.0018
	M	3.992	3.891	3.644	3.866	WITHIN GROUPS	2459.5314	923	2.6647		
	SD	1.490	1.651	1.673	1.634	TOTAL	2469.3952	925			
6	N	137	651	150	938	BETWEEN GROUPS	7.2366	2	3.6183	2.4486	0.0031
	M	3.190	3.006	2.873	3.012	WITHIN GROUPS	1381.6344	935	1.4777		
	SD	1.173	1.210	1.276	1.217	TOTAL	1388.8710	937			
7	N	135	636	144	915	BETWEEN GROUPS	1265.6784	2	632.8392	38.2487	0.0753
	M	19.037	21.274	23.299	21.262	WITHIN GROUPS	15089.3708	912	16.5454		
	SD	4.120	4.029	4.188	4.230	TOTAL	16355.0492	914			
8	N	143	680	161	984	BETWEEN GROUPS	64.8123	2	32.4062	0.3310	-0.0014
	M	114.028	114.026	114.720	114.140	WITHIN GROUPS	96057.8340	981	97.9183		
	SD	9.298	10.047	9.762	9.889	TOTAL	96122.6463	983			
9	N	68	361	84	513	BETWEEN GROUPS	7.9730	2	3.9865	2.3864	0.0054
	M	2.794	2.967	3.238	2.988	WITHIN GROUPS	851.9569	510	1.6705		
	SD	1.045	1.331	1.304	1.296	TOTAL	859.9298	512			
10	N	77	410	90	577	BETWEEN GROUPS	1.3814	2	0.6907	0.4277	-0.0020
	M	2.558	2.622	2.733	2.631	WITHIN GROUPS	926.9895	574	1.6150		
	SD	1.118	1.282	1.339	1.270	TOTAL	928.3709	576			
11	N	89	463	106	658	BETWEEN GROUPS	0.4126	2	0.2063	0.1512	-0.0026
	M	2.685	2.717	2.774	2.722	WITHIN GROUPS	893.6923	655	1.3644		
	SD	1.018	1.171	1.267	1.167	TOTAL	894.1049	657			
12	N	99	517	113	729	BETWEEN GROUPS	3.0495	2	1.5248	1.0989	0.0003
	M	2.424	2.257	2.372	2.298	WITHIN GROUPS	1007.3565	726	1.3875		
	SD	1.326	1.144	1.197	1.178	TOTAL	1010.4060	728			

LLOYD 1-14: READING DEFICIENCY ANALYSIS OF VARIANCE RUNS

LLOYD 1-14E: WHITE MALES - High IQ

J	N	M	SD	1	2	3	TOTAL	SOURCE	SUM OF SQUARES	DF	MEAN SQUARE	F RATIO	OMEGA SQ
13	84						638	BETWEEN GROUPS	3854.7978	2	1927.3989	35.5312	0.0977
	36.833	455	99	46.040	79.888	46.040	41.713	WITHIN GROUPS	34445.7116	635	54.2452		
	8.580	7.468	5.547	7.754	10.290	5.547	7.754	TOTAL	38300.5094	637			
14	143						984	BETWEEN GROUPS	70945.1039	2	35472.5520	84.4553	0.1450
	49.301	66.151	79.888	65.950	79.888	65.950	65.950	WITHIN GROUPS	412035.4560	981	420.0158		
	11.189	23.573	10.290	22.166	10.290	22.166	22.166	TOTAL	482980.5600	983			
15	106						736	BETWEEN GROUPS	0.2342	2	0.1171	0.7912	-0.0006
	2.821	2.877	2.886	2.856	2.886	2.856	2.856	WITHIN GROUPS	108.4925	733	0.1480		
	0.409	0.388	0.346	0.385	0.346	0.385	0.385	TOTAL	108.7337	735			
16	143						984	BETWEEN GROUPS	48037.4237	2	24018.7119	196.5708	0.2844
	56.755	66.832	81.441	67.758	81.441	67.758	67.758	WITHIN GROUPS	119867.0112	981	122.1886		
	9.682	10.961	12.493	13.069	12.493	13.069	13.069	TOTAL	167904.4350	983			
17	85						666	BETWEEN GROUPS	1634.1858	2	817.0929	4.7770	0.0112
	111.565	115.085	117.378	115.018	117.378	115.018	115.018	WITHIN GROUPS	113403.5980	663	171.0462		
	13.099	13.373	11.723	13.153	11.723	13.153	13.153	TOTAL	115037.7838	665			
18	143						984	BETWEEN GROUPS	60127.7593	2	30063.8796	381.8849	0.4364
	52.035	65.682	80.137	66.064	80.137	66.064	66.064	WITHIN GROUPS	77229.2072	981	78.7250		
	8.067	9.002	9.002	11.821	9.002	11.821	11.821	TOTAL	137356.9665	983			
19	143						976	BETWEEN GROUPS	3396.4711	2	1698.2356	38.0003	0.0705
	60.902	64.742	67.608	64.643	67.608	64.643	64.643	WITHIN GROUPS	43483.4469	973	44.6901		
	6.198	6.649	7.239	6.934	7.239	6.934	6.934	TOTAL	46879.9180	975			
20	140						971	BETWEEN GROUPS	6755.8250	2	3377.9125	63.3253	0.1138
	59.200	64.070	68.706	64.132	68.706	64.132	64.132	WITHIN GROUPS	51635.3016	968	53.3423		
	6.799	7.447	7.114	7.759	7.114	7.759	7.759	TOTAL	58391.1267	970			
21	128						886	BETWEEN GROUPS	5350.7970	2	2675.3985	38.4502	0.0779
	26.312	31.544	35.232	31.362	35.232	31.362	31.362	WITHIN GROUPS	61439.9039	883	69.5809		
	6.805	8.541	8.714	8.687	8.714	8.687	8.687	TOTAL	66790.7009	885			
22	128						887	BETWEEN GROUPS	5194.9145	2	2597.4573	35.1169	0.0714
	27.656	32.469	36.493	32.400	36.493	32.400	32.400	WITHIN GROUPS	65386.0054	884	73.9661		
	7.527	8.713	9.011	8.925	9.011	8.925	8.925	TOTAL	70580.9200	886			
23	117						803	BETWEEN GROUPS	3244.4740	2	1622.2370	19.1074	0.0432
	26.342	30.108	33.727	30.105	33.727	30.105	30.105	WITHIN GROUPS	67920.7389	800	84.9009		
	8.441	9.357	9.253	9.420	9.253	9.420	9.420	TOTAL	71165.2130	802			
24	128						886	BETWEEN GROUPS	4466.6232	2	2233.3116	27.2017	0.0558
	26.602	31.463	34.732	31.270	34.732	31.270	31.270	WITHIN GROUPS	72495.9062	883	82.1018		
	7.607	9.221	9.559	9.325	9.559	9.325	9.325	TOTAL	76962.5293	885			

LLOYD 1-14: READING DEFICIENCY ANALYSIS OF VARIANCE RUNS

LLOYD 1-14E: WHITE MALES - High IQ

J	N	M	SD	1	2	3	TOTAL	SOURCE	SUM OF SQUARES	DF	MEAN SQUARE	F RATIO	OMEGA SQ
25	N	59			287	60	406	BETWEEN GROUPS	1241.0865	2	620.5432	5.3903	0.0212
	M	24.644		31.083	28.192	31.083	28.103	WITHIN GROUPS	46394.5687	403	115.1230		
	SD	9.908		11.463	10.733	11.463	10.845	TOTAL	47635.6552	405			
26	N	128			617	137	882	BETWEEN GROUPS	1509.4588	2	754.7294	11.6472	0.0236
	M	32.094		36.825	34.930	36.825	34.813	WITHIN GROUPS	56958.6739	879	64.7994		
	SD	7.075		8.513	8.133	8.513	8.147	TOTAL	58468.1327	881			
27	N	61			385	92	538	BETWEEN GROUPS	2629.2141	2	1314.6071	8.9358	0.0287
	M	21.574		30.011	27.055	30.011	26.939	WITHIN GROUPS	78707.7617	535	147.1173		
	SD	10.061		11.967	12.459	11.967	12.307	TOTAL	81336.9758	537			
28	N	128			609	136	873	BETWEEN GROUPS	1812.8544	2	906.4272	11.4409	0.0234
	M	33.648		38.463	37.371	38.463	36.995	WITHIN GROUPS	68927.1272	870	79.2266		
	SD	8.836		9.176	8.852	9.176	9.007	TOTAL	70739.9817	872			
29	N	123			564	117	804	BETWEEN GROUPS	724.0958	2	362.0479	4.4979	0.0086
	M	31.366		34.393	33.860	34.393	33.556	WITHIN GROUPS	64474.3855	801	80.4924		
	SD	8.772		8.787	9.052	8.787	9.011	TOTAL	65198.4813	803			
30	N	127			616	137	880	BETWEEN GROUPS	471.1520	2	235.5760	5.1701	0.0094
	M	38.291		40.839	40.097	40.839	39.952	WITHIN GROUPS	39960.8435	877	45.5654		
	SD	6.620		6.403	6.851	6.403	6.782	TOTAL	40431.9955	879			
31	N	130			617	142	889	BETWEEN GROUPS	6778.5775	2	3389.2887	40.2975	0.0812
	M	28.492		38.373	34.549	38.373	34.274	WITHIN GROUPS	74518.4529	886	84.1066		
	SD	8.407		8.678	9.430	8.678	9.568	TOTAL	81297.0304	888			
32	N	123			582	130	835	BETWEEN GROUPS	5786.0392	2	2893.0196	31.7326	0.0686
	M	28.756		38.315	33.914	38.315	33.840	WITHIN GROUPS	75852.4566	832	91.1688		
	SD	8.514		9.422	9.779	9.422	9.894	TOTAL	81638.4958	834			
33	N	118			565	122	805	BETWEEN GROUPS	3596.6887	2	1798.3444	22.1700	0.0500
	M	28.076		35.689	32.793	35.689	32.540	WITHIN GROUPS	65055.2492	802	81.1163		
	SD	7.695		9.425	9.165	9.425	9.241	TOTAL	68651.9379	804			
34	N	114			540	116	770	BETWEEN GROUPS	2938.1227	2	1469.0614	15.8797	0.0372
	M	26.061		33.190	29.335	33.190	29.431	WITHIN GROUPS	70956.7292	767	92.5120		
	SD	7.698		9.590	9.980	9.590	9.803	TOTAL	73894.8519	769			
35	N	97			456	104	657	BETWEEN GROUPS	1352.4597	2	676.2298	9.3264	0.0247
	M	26.392		31.433	29.743	31.433	29.516	WITHIN GROUPS	47419.6225	654	72.5071		
	SD	6.975		9.450	8.587	9.450	8.623	TOTAL	48772.0822	656			
36	N	87			427	98	612	BETWEEN GROUPS	1292.2688	2	646.1344	10.5178	0.0302
	M	28.115		33.398	31.129	33.398	31.064	WITHIN GROUPS	37412.2459	609	61.4323		
	SD	6.404		8.566	7.927	8.566	7.959	TOTAL	38704.5147	611			



LLOYD 1-14: READING DEFICIENCY ANALYSIS OF VARIANCE RUNS

LLOYD 1-14E: WHITE MALES - High IQ

J	N	M	SD	1	2	3	TOTAL	SOURCE	SUM OF SQUARES	DF	MEAN SQUARE	F RATIO	OMEGA SQ
37	N			129	599	132	860	BETWEEN GROUPS	14684.8616	2	7342.4308	51.7583	0.1056
	M			102.264	109.967	117.265	109.931	WITHIN GROUPS	121574.0907	857	141.8601		
	SD			11.513	12.098	11.418	12.595	TOTAL	136258.9523	859			
38	N			101	477	104	682	BETWEEN GROUPS	8320.3710	2	4160.1855	27.5381	0.0722
	M			105.485	113.805	117.731	113.172	WITHIN GROUPS	102576.5572	679	151.0700		
	SD			13.208	12.012	12.635	12.761	TOTAL	110896.9282	681			
39	N			58	296	65	419	BETWEEN GROUPS	2.7131	2	1.3566	0.8711	-0.0006
	M			2.741	2.524	2.646	2.573	WITHIN GROUPS	647.8167	416	1.5573		
	SD			1.163	1.267	1.230	1.248	TOTAL	650.5298	418			
40	N			123	584	134	841	BETWEEN GROUPS	42921.6098	2	21460.8049	69.0954	0.1394
	M			66.317	78.863	92.142	79.144	WITHIN GROUPS	260279.9812	838	310.5966		
	SD			17.356	17.931	16.469	18.999	TOTAL	303201.5910	840			
41	N			126	589	136	851	BETWEEN GROUPS	20126.6302	2	10063.3151	40.3984	0.0847
	M			58.976	68.448	76.507	68.334	WITHIN GROUPS	211238.5918	848	249.1021		
	SD			14.453	16.280	14.726	16.498	TOTAL	231365.2221	850			
42	N			122	585	135	842	BETWEEN GROUPS	43621.8273	2	21810.9137	49.9587	0.1042
	M			53.852	69.113	79.800	68.615	WITHIN GROUPS	366289.4981	839	436.5787		
	SD			18.864	21.257	21.043	22.077	TOTAL	409911.3254	841			
43	N			124	590	132	846	BETWEEN GROUPS	7550.6768	2	3775.3384	26.7497	0.0574
	M			66.847	73.308	77.606	73.032	WITHIN GROUPS	118977.4615	843	141.1358		
	SD			10.681	12.279	11.099	12.237	TOTAL	126528.1383	845			
44	N			120	561	129	810	BETWEEN GROUPS	20987.0029	2	10493.5015	57.4823	0.1224
	M			63.583	73.758	81.922	73.551	WITHIN GROUPS	147319.4218	807	182.5519		
	SD			12.276	13.945	12.651	14.424	TOTAL	168306.4247	809			
45	N			90	439	92	621	BETWEEN GROUPS	12199.2984	2	6099.6492	21.7222	0.0626
	M			94.778	104.073	111.054	103.760	WITHIN GROUPS	173535.9512	618	280.8025		
	SD			21.266	16.557	12.050	17.308	TOTAL	185735.2496	620			
46	N			90	439	92	621	BETWEEN GROUPS	16574.2554	2	8287.1277	38.4552	0.1076
	M			95.467	106.419	114.413	106.016	WITHIN GROUPS	133179.5836	618	215.5009		
	SD			18.856	14.557	9.790	15.542	TOTAL	149753.8390	620			
47	N			90	439	92	621	BETWEEN GROUPS	14267.3112	2	7133.6556	34.7453	0.0980
	M			95.144	105.180	112.750	104.847	WITHIN GROUPS	126883.1558	618	205.3125		
	SD			18.346	14.246	9.396	15.088	TOTAL	141150.4670	620			
48	N			101	501	104	706	BETWEEN GROUPS	1161.5583	2	580.7791	20.7780	0.0531
	M			12.465	15.307	17.163	15.174	WITHIN GROUPS	19650.0125	703	27.9517		
	SD			5.487	5.198	5.511	5.433	TOTAL	20811.5708	705			

LLOYD 1-14: READING DEFICIENCY ANALYSIS OF VARIANCE RUNS

LLOYD 1-14E: WHITE MALES - High IQ

J	N	M	SD	1	2	3	TOTAL	SOURCE	SUM OF SQUARES	DF	MEAN SQUARE	F RATIO	OMEGA SQ
49	N			102	496	99	697	BETWEEN GROUPS	920.0492	2	460.0246	16.2667	0.0420
	M			14.882	17.319	19.121	17.218	WITHIN GROUPS	19628.8030	694	28.2836		
	SD			6.191	5.145	5.203	5.434	TOTAL	20548.8522	696			
50	N			103	497	110	710	BETWEEN GROUPS	1157.0420	2	578.5210	29.7628	0.0749
	M			11.981	14.549	16.636	14.500	WITHIN GROUPS	13742.4580	707	19.4377		
	SD			3.686	4.472	4.729	4.584	TOTAL	14899.5000	709			
51	N			104	504	109	717	BETWEEN GROUPS	1026.6107	2	513.3053	16.2097	0.0407
	M			14.923	16.968	19.303	17.026	WITHIN GROUPS	22609.8859	714	31.6665		
	SD			5.260	5.704	5.607	5.746	TOTAL	23636.4965	716			
52	N			103	503	107	713	BETWEEN GROUPS	1772.2821	2	886.1410	35.1941	0.0875
	M			12.670	16.024	18.439	15.902	WITHIN GROUPS	17876.8456	710	25.1787		
	SD			5.051	5.032	4.919	5.253	TOTAL	19649.1276	712			
53	N			105	503	105	713	BETWEEN GROUPS	1438.9262	2	719.4631	20.8684	0.0528
	M			11.895	15.139	17.000	14.935	WITHIN GROUPS	24478.1061	710	34.4762		
	SD			5.960	5.740	6.387	6.033	TOTAL	25917.0323	712			
54	N			101	506	106	713	BETWEEN GROUPS	1465.4990	2	732.7495	26.6954	0.0672
	M			10.624	13.678	15.915	13.578	WITHIN GROUPS	19488.4309	710	27.4485		
	SD			5.267	5.124	5.736	5.425	TOTAL	20953.9299	712			
55	N			104	503	103	710	BETWEEN GROUPS	1921.6369	2	960.8185	45.4692	0.1113
	M			12.606	15.920	18.680	15.835	WITHIN GROUPS	14940.0828	707	21.1317		
	SD			4.822	4.654	4.049	4.877	TOTAL	16861.7197	709			
56	N			102	497	105	704	BETWEEN GROUPS	1201.2547	2	600.6273	21.9267	0.0561
	M			12.863	15.628	17.648	15.528	WITHIN GROUPS	19202.1772	701	27.3925		
	SD			5.657	5.079	5.526	5.387	TOTAL	20403.4318	703			
57	N			143	680	161	984	BETWEEN GROUPS	57869.0449	2	28934.5225	1352.6288	0.7331
	M			86.231	99.875	113.826	100.175	WITHIN GROUPS	20984.8901	981	21.3913		
	SD			4.405	4.485	5.345	8.956	TOTAL	78853.9350	983			

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LLOYD 1-14: READING DEFICIENCY ANALYSIS OF VARIANCE RUNS

LLOYD 1-14D: WHITE MALES - Low IQ

J	N	M	SD	1	2	3	TOTAL	SOURCE	SUM OF SQUARES	DF	MEAN SQUARE	F RATIO	OMEGA SQ
1	N	105		110	425	110	640	BETWEEN GROUPS	848.6569	2	424.3285	6.4826	0.0168
	M	141.324		145.209	142.798	145.209	142.970	WITHIN GROUPS	41695.7790	637	65.4565		
	SD	6.880		9.395	8.002	9.395	8.160	TOTAL	42544.4359	639			
2	N	97		104	404	104	605	BETWEEN GROUPS	15.0626	2	7.5313	3.2042	0.0072
	M	4.381		3.846	4.176	3.846	4.152	WITHIN GROUPS	1414.9473	602	2.3504		
	SD	1.425		1.606	1.539	1.606	1.539	TOTAL	1430.0099	604			
3	N	98		103	402	103	603	BETWEEN GROUPS	10.2920	2	5.1460	2.5346	0.0051
	M	4.316		3.864	4.072	3.864	4.076	WITHIN GROUPS	1218.1989	600	2.0303		
	SD	1.389		1.329	1.457	1.329	1.429	TOTAL	1228.4909	602			
4	N	105		110	425	110	640	BETWEEN GROUPS	29.8806	2	14.9403	3.9753	0.0092
	M	2.629		1.936	2.445	1.936	2.387	WITHIN GROUPS	2394.0194	637	3.7583		
	SD	2.100		1.593	1.978	1.593	1.948	TOTAL	2423.9000	639			
5	N	93		103	396	103	592	BETWEEN GROUPS	11.1102	2	5.5551	3.0146	0.0068
	M	4.720		4.272	4.583	4.272	4.551	WITHIN GROUPS	1085.3695	589	1.8427		
	SD	1.288		1.522	1.328	1.522	1.362	TOTAL	1096.4797	591			
6	N	98		102	395	102	595	BETWEEN GROUPS	4.4723	2	2.2362	2.4826	0.0050
	M	3.673		3.392	3.592	3.392	3.571	WITHIN GROUPS	533.2420	592	0.9007		
	SD	0.917		1.036	0.934	1.036	0.951	TOTAL	537.7143	594			
7	N	94		103	396	103	583	BETWEEN GROUPS	884.5707	2	442.2854	27.2403	0.0826
	M	13.245		17.476	15.648	17.476	15.583	WITHIN GROUPS	9417.1446	580	16.2365		
	SD	3.570		3.953	4.152	3.953	4.207	TOTAL	10301.7153	582			
8	N	105		110	425	110	640	BETWEEN GROUPS	1387.7155	2	693.8578	7.0646	0.0186
	M	88.990		83.918	86.593	83.918	86.527	WITHIN GROUPS	62563.8329	637	98.2164		
	SD	6.712		11.626	10.088	11.626	10.004	TOTAL	63951.5484	639			
9	N	55		46	215	46	316	BETWEEN GROUPS	1.4881	2	0.7441	0.3489	-0.0041
	M	2.927		3.109	2.912	3.109	2.943	WITHIN GROUPS	667.4865	313	2.1325		
	SD	1.372		1.663	1.436	1.663	1.457	TOTAL	668.9747	315			
10	N	61		53	235	53	349	BETWEEN GROUPS	2.1296	2	1.0648	0.6653	-0.0019
	M	2.475		2.736	2.545	2.736	2.562	WITHIN GROUPS	553.7959	346	1.6006		
	SD	1.273		1.227	1.271	1.227	1.264	TOTAL	555.9255	348			
11	N	74		60	271	60	405	BETWEEN GROUPS	5.9699	2	2.9849	1.9371	0.0046
	M	2.865		2.650	2.546	2.650	2.620	WITHIN GROUPS	619.4721	402	1.5410		
	SD	1.398		1.313	1.179	1.313	1.244	TOTAL	625.4420	404			
12	N	80		69	303	69	452	BETWEEN GROUPS	0.2515	2	0.1257	0.0718	-0.0041
	M	2.350		2.391	2.413	2.391	2.398	WITHIN GROUPS	786.0671	449	1.7507		
	SD	1.284		1.297	1.339	1.297	1.320	TOTAL	786.3186	451			

LLOYD 1-14: READING DEFICIENCY ANALYSIS OF VARIANCE RUNS

LLOYD 1-140: WHITE MALES - Low IQ

J	N	M	SD	1	2	3	TOTAL	SOURCE	SUM OF SQUARES	DF	MEAN SQUARE	F RATIO	OMEGA SQ
13	N			70	259	62	391	BETWEEN GROUPS	2264.8122	2	1132.4061	20.5928	0.0911
	M	26.800		35.097	30.564	30.609	30.609	WITHIN GROUPS	21336.3182	388	54.9905		
	SD	6.678		8.668	7.281	7.779	7.779	TOTAL	23601.1304	390			
14	N			105	425	110	640	BETWEEN GROUPS	30074.7735	2	15037.3867	143.9367	0.3088
	M	30.095		53.682	41.014	41.400	41.400	WITHIN GROUPS	66548.8265	637	104.4723		
	SD	6.414		12.296	10.392	12.297	12.297	TOTAL	96623.6000	639			
15	N			86	346	86	518	BETWEEN GROUPS	2.6397	2	1.3199	5.3611	0.0166
	M	2.430		2.663	2.494	2.512	2.512	WITHIN GROUPS	126.7908	515	0.2462		
	SD	0.498		0.476	0.501	0.500	0.500	TOTAL	129.4305	517			
16	N			105	422	110	637	BETWEEN GROUPS	14488.7583	2	7244.3791	98.0298	0.2335
	M	40.552		56.973	49.123	49.066	49.066	WITHIN GROUPS	46852.4725	634	73.8998		
	SD	7.079		8.861	8.864	9.821	9.821	TOTAL	61341.2308	636			
17	N			73	274	62	409	BETWEEN GROUPS	356.4727	2	178.2364	0.7473	-0.0012
	M	98.205		100.403	97.748	98.232	98.232	WITHIN GROUPS	96828.4613	406	238.4937		
	SD	15.348		17.198	15.049	15.434	15.434	TOTAL	97184.9340	408			
18	N			105	425	110	640	BETWEEN GROUPS	25696.2293	2	12848.1147	166.8863	0.3414
	M	33.781		55.627	44.325	44.537	44.537	WITHIN GROUPS	49040.8707	637	76.9872		
	SD	5.796		9.873	9.075	10.815	10.815	TOTAL	74737.1000	639			
19	N			105	418	109	632	BETWEEN GROUPS	2354.2744	2	1177.1372	21.8462	0.0619
	M	50.981		57.615	54.433	54.408	54.408	WITHIN GROUPS	33892.4028	629	53.8830		
	SD	7.022		7.590	7.352	7.579	7.579	TOTAL	36246.6772	631			
20	N			105	417	109	631	BETWEEN GROUPS	5608.7095	2	2804.3547	42.0211	0.1151
	M	45.181		55.367	51.019	50.799	50.799	WITHIN GROUPS	41910.7295	628	66.7368		
	SD	7.098		8.023	8.452	8.685	8.685	TOTAL	47519.4390	630			
21	N			96	387	99	582	BETWEEN GROUPS	1170.1136	2	585.0568	15.7372	0.0482
	M	20.667		25.222	21.873	22.244	22.244	WITHIN GROUPS	21525.2403	579	37.1764		
	SD	5.311		7.158	5.985	6.250	6.250	TOTAL	22695.3540	581			
22	N			96	387	99	582	BETWEEN GROUPS	1249.5791	2	624.7895	14.1974	0.0434
	M	21.552		26.051	22.411	22.888	22.888	WITHIN GROUPS	25480.1615	579	44.0072		
	SD	6.309		7.695	6.417	6.783	6.783	TOTAL	26729.7405	581			
23	N			71	316	87	474	BETWEEN GROUPS	270.4293	2	135.2147	2.2656	0.0053
	M	21.324		23.494	21.614	21.916	21.916	WITHIN GROUPS	28110.1952	471	59.6819		
	SD	7.201		9.140	7.410	7.746	7.746	TOTAL	28380.6245	473			
24	N			96	387	99	582	BETWEEN GROUPS	1217.4347	2	608.7173	13.1224	0.0400
	M	20.510		25.313	22.101	22.385	22.385	WITHIN GROUPS	26858.3523	579	46.3875		
	SD	6.276		7.705	6.694	6.951	6.951	TOTAL	28075.7869	581			

LLOYD 1-14: READING DEFICIENCY ANALYSIS OF VARIANCE RUNS

LLOYD 1-140: WHITE MALES - Low IQ

J	N	M	SD	1	2	3	TOTAL	SOURCE	SUM OF SQUARES	DF	MEAN SQUARE	F RATIO	OMEGA SQ
25	N	30		141		49	220	BETWEEN GROUPS	293.2401	2	146.6201	2.1450	0.0103
	M	20.467		20.837		23.531	21.386	WITHIN GROUPS	14832.9190	217	68.3545		
	SD	5.923		8.243		9.467	8.311	TOTAL	15126.1591	219			
26	N	96		387		98	581	BETWEEN GROUPS	411.5846	2	205.7923	3.3497	0.0080
	M	28.958		28.762		31.041	29.179	WITHIN GROUPS	35509.7993	578	61.4356		
	SD	6.967		7.928		8.272	7.870	TOTAL	35921.3838	580			
27	N	17		87		33	137	BETWEEN GROUPS	362.9494	2	181.4747	1.9663	0.0139
	M	16.059		17.494		20.909	18.139	WITHIN GROUPS	12367.4156	134	92.2941		
	SD	9.337		9.156		10.844	9.675	TOTAL	12730.3650	136			
28	N	94		381		97	572	BETWEEN GROUPS	1107.4404	2	553.7202	7.3830	0.0218
	M	26.957		29.050		31.742	29.163	WITHIN GROUPS	42674.4390	569	74.9990		
	SD	7.851		8.652		9.407	8.756	TOTAL	43781.8794	571			
29	N	87		368		93	548	BETWEEN GROUPS	438.7767	2	219.3884	3.1488	0.0078
	M	26.621		27.201		29.409	27.484	WITHIN GROUPS	37972.0754	545	69.6735		
	SD	7.979		8.408		8.441	8.380	TOTAL	38410.8522	547			
30	N	96		386		98	580	BETWEEN GROUPS	225.0463	2	112.5232	1.7517	0.0026
	M	36.177		35.650		37.337	36.022	WITHIN GROUPS	37063.6623	577	64.2351		
	SD	7.035		8.378		7.420	8.025	TOTAL	37288.7086	579			
31	N	95		388		99	582	BETWEEN GROUPS	1564.4664	2	782.2332	15.2432	0.0467
	M	21.842		23.812		27.354	24.093	WITHIN GROUPS	29712.5233	579	51.3170		
	SD	6.795		7.046		7.929	7.337	TOTAL	31276.9897	581			
32	N	87		361		93	541	BETWEEN GROUPS	1181.5707	2	590.7853	10.5290	0.0340
	M	21.851		23.127		26.602	23.519	WITHIN GROUPS	30187.4755	538	56.1105		
	SD	7.327		7.104		8.971	7.622	TOTAL	31369.0462	540			
33	N	73		329		89	491	BETWEEN GROUPS	357.5621	2	178.7811	3.5782	0.0104
	M	23.658		23.477		25.719	23.910	WITHIN GROUPS	24382.4949	488	49.9641		
	SD	7.006		6.737		8.230	7.106	TOTAL	24740.0570	490			
34	N	64		276		83	423	BETWEEN GROUPS	244.4732	2	122.2366	2.2892	0.0061
	M	20.766		21.351		23.084	21.603	WITHIN GROUPS	22426.8034	420	53.3972		
	SD	6.271		7.231		8.241	7.330	TOTAL	22671.2766	422			
35	N	47		207		64	318	BETWEEN GROUPS	269.0815	2	134.5407	3.0201	0.0125
	M	22.830		22.831		25.125	23.292	WITHIN GROUPS	14032.7204	315	44.5483		
	SD	7.349		6.427		6.945	6.717	TOTAL	14301.8019	317			
36	N	37		171		58	266	BETWEEN GROUPS	283.4515	2	141.7258	3.3854	0.0176
	M	24.486		26.275		27.983	26.398	WITHIN GROUPS	11010.3079	263	41.8643		
	SD	6.225		6.284		7.134	6.528	TOTAL	11293.7594	265			

LLOYD 1-14: READING DEFICIENCY ANALYSIS OF VARIANCE RUNS

LLOYD 1-140: WHITE MALES - Low IQ

J	1	2	3	TOTAL	SOURCE	SUM OF SQUARES	DF	MEAN SQUARE	F RATIO	OMEGA SQ
37	N	92	96	573	BETWEEN GROUPS	4157.3742	2	2078.6871	17.8661	0.0556
	M	84.457	93.813	88.832	WITHIN GROUPS	66318.5420	570	116.3483		
	SD	9.062	12.849	11.100	TOTAL	70475.9162	572			
38	N	55	74	369	BETWEEN GROUPS	1897.9306	2	948.9653	8.4858	0.0390
	M	90.164	97.905	94.417	WITHIN GROUPS	40929.7984	366	111.8301		
	SD	9.676	11.521	10.788	TOTAL	42827.7290	368			
39	N	27	47	212	BETWEEN GROUPS	0.4958	2	0.2479	0.1528	-0.0081
	M	3.037	2.936	2.920	WITHIN GROUPS	329.1410	209	1.6227		
	SD	1.192	1.223	1.269	TOTAL	339.6368	211			
40	N	87	97	556	BETWEEN GROUPS	9170.6992	2	4585.3496	25.6590	0.0815
	M	46.402	60.268	52.579	WITHIN GROUPS	9822.8187	553	176.7031		
	SD	11.577	15.450	13.949	TOTAL	10793.5180	555			
41	N	90	96	560	BETWEEN GROUPS	3411.0371	2	1705.5186	12.3088	0.0388
	M	44.578	53.135	48.813	WITHIN GROUPS	77178.2754	557	138.5606		
	SD	10.373	13.257	12.007	TOTAL	80589.3125	559			
42	N	74	93	503	BETWEEN GROUPS	5127.2014	2	2563.6007	8.7651	0.0300
	M	38.095	48.624	42.463	WITHIN GROUPS	146239.8682	500	292.4797		
	SD	17.052	19.487	17.365	TOTAL	151367.0696	502			
43	N	91	96	553	BETWEEN GROUPS	1810.2366	2	905.1183	9.3345	0.0293
	M	54.341	60.490	57.103	WITHIN GROUPS	53330.8882	550	96.9653		
	SD	8.989	11.874	9.995	TOTAL	55141.1248	552			
44	N	81	95	526	BETWEEN GROUPS	5426.8979	2	2713.4489	25.9472	0.0866
	M	47.309	58.137	52.087	WITHIN GROUPS	54693.0793	523	104.5757		
	SD	8.541	12.511	10.701	TOTAL	60119.9772	525			
45	N	49	62	324	BETWEEN GROUPS	6111.8154	2	3055.9077	7.4066	0.0380
	M	68.980	83.887	76.889	WITHIN GROUPS	132442.1846	321	412.5925		
	SD	17.636	22.390	20.711	TOTAL	138554.0000	323			
46	N	48	62	322	BETWEEN GROUPS	15410.5697	2	7705.2849	19.6221	0.1037
	M	66.500	90.323	79.345	WITHIN GROUPS	125266.1663	319	392.6839		
	SD	20.006	20.420	20.934	TOTAL	140676.7360	321			
47	N	48	62	323	BETWEEN GROUPS	10303.4681	2	5151.7340	14.8404	0.0789
	M	67.646	87.097	77.972	WITHIN GROUPS	111085.2812	320	347.1415		
	SD	17.698	20.038	19.416	TOTAL	121388.7492	322			
48	N	62	73	405	BETWEEN GROUPS	294.6071	2	147.3036	7.7984	0.0325
	M	8.419	11.384	10.010	WITHIN GROUPS	7593.3533	402	18.8889		
	SD	4.302	4.261	4.419	TOTAL	7887.9605	404			

LLOYD 1-14: READING DEFICIENCY ANALYSIS OF VARIANCE RUNS

LLOYD 1-140: WHITE MALES - Low IQ

J	N	M	SD	1	2	3	TOTAL	SOURCE	SUM OF SQUARES	DF	MEAN SQUARE	F RATIO	OMEGA SQ
49	N	62		264	77	403		BETWEEN GROUPS	252.8601	2	126.4300	4.7922	0.0185
	M	9.984		11.102	12.636	11.223		WITHIN GROUPS	10553.0407	400	26.3826		
	SD	4.717		5.482	5.482	5.185		TOTAL	10805.9007	402			
50	N	63		269	78	410		BETWEEN GROUPS	205.3287	2	102.6644	7.1352	0.0291
	M	8.063		9.323	10.487	9.351		WITHIN GROUPS	5856.0957	407	14.3884		
	SD	3.906		3.693	4.038	3.850		TOTAL	6061.4244	409			
51	N	62		265	77	404		BETWEEN GROUPS	274.5698	2	137.2849	6.4518	0.0263
	M	9.710		10.740	12.429	10.903		WITHIN GROUPS	8532.6653	401	21.2785		
	SD	3.969		4.618	5.056	4.675		TOTAL	8807.2351	403			
52	N	62		269	73	404		BETWEEN GROUPS	277.9780	2	138.9890	8.4848	0.0357
	M	8.823		9.996	11.644	10.114		WITHIN GROUPS	6568.7844	401	16.3810		
	SD	4.010		3.799	4.889	4.122		TOTAL	6846.7624	403			
53	N	60		271	79	410		BETWEEN GROUPS	314.2283	2	157.1142	7.7675	0.0320
	M	7.883		9.092	10.823	9.249		WITHIN GROUPS	8232.3960	407	20.2270		
	SD	4.005		4.374	5.213	4.571		TOTAL	8546.6244	409			
54	N	62		271	75	408		BETWEEN GROUPS	467.0804	2	233.5402	14.5204	0.0622
	M	5.661		7.860	9.360	7.801		WITHIN GROUPS	6513.8387	405	16.0836		
	SD	3.648		3.845	4.806	4.142		TOTAL	6980.9191	407			
55	N	63		271	79	413		BETWEEN GROUPS	362.5003	2	181.2502	10.6707	0.0447
	M	8.143		9.720	11.342	9.789		WITHIN GROUPS	6964.1728	410	16.9858		
	SD	3.826		4.055	4.551	4.217		TOTAL	7326.6731	412			
56	N	64		269	77	410		BETWEEN GROUPS	383.7868	2	191.8934	10.8832	0.0460
	M	8.187		9.758	11.481	9.837		WITHIN GROUPS	7176.2645	407	17.6321		
	SD	4.489		4.088	4.333	4.299		TOTAL	7560.0512	409			
57	N	105		425	110	640		BETWEEN GROUPS	35759.2235	2	17879.6117	917.6170	0.7412
	M	87.495		99.894	113.264	100.158		WITHIN GROUPS	12411.8375	637	19.4848		
	SD	3.334		4.647	4.391	8.682		TOTAL	48171.0609	639			

LLLOYD I-14: READING EFFICIENCY ANALYSIS OF VARIANCE RUNS

LLLOYD I-14b: WHITE FEMALES - High SES

J	N	M	SD	1	2	3	TOTAL	SOURCE	SUM OF SQUARES	DF	MEAN SQUARE	F RATIO	UMEGA SQ
1	N	93					732	BETWEEN GROUPS	678.9598	2	339.4799	14.0910	0.00361
	M	136.269	491	148	138.223			WITHIN GROUPS	16842.7438	729	23.1080		
	SD	5.230	4.725	4.802	4.896			TOTAL	17524.7036	731			
2	N	93					728	BETWEEN GROUPS	20.1520	2	10.0760	3.8907	0.0079
	M	2.796	488	147	2.481			WITHIN GROUPS	1877.5788	725	2.5898		
	SD	1.619	1.614	1.589	1.616			TOTAL	1897.7308	727			
3	N	93					729	BETWEEN GROUPS	19.2139	2	9.7569	3.9774	0.0081
	M	3.484	488	148	3.059			WITHIN GROUPS	1780.9498	726	2.4531		
	SD	1.508	1.584	1.542	1.573			TOTAL	1800.4636	728			
4	N	93					732	BETWEEN GROUPS	0.3811	2	0.1906	0.1223	-0.0024
	M	1.839	491	148	1.798			WITHIN GROUPS	1135.0954	729	1.5579		
	SD	1.296	1.274	1.123	1.247			TOTAL	1136.0765	731			
5	N	92					716	BETWEEN GROUPS	6.9959	2	3.4979	2.4187	0.0039
	M	3.120	479	145	2.883			WITHIN GROUPS	1031.1494	713	1.4462		
	SD	1.098	1.203	1.262	1.205			TOTAL	1038.1453	715			
6	N	93					732	BETWEEN GROUPS	6.1158	2	3.0579	4.2581	0.0088
	M	2.462	491	148	2.262			WITHIN GROUPS	523.5235	729	0.7181		
	SD	0.760	0.858	0.862	0.851			TOTAL	529.6393	731			
7	N	90					713	BETWEEN GROUPS	867.6521	2	433.8260	20.6663	0.0023
	M	19.722	478	145	21.992			WITHIN GROUPS	14904.2974	710	20.9920		
	SD	4.878	4.561	4.459	4.707			TOTAL	15771.9495	712			
8	N	93					732	BETWEEN GROUPS	420.6200	2	210.3100	0.9810	-0.0001
	M	108.581	110.275	108.716	109.745			WITHIN GROUPS	156288.0081	729	214.3877		
	SD	13.078	14.263	16.674	14.642			TOTAL	156709.2281	731			
9	N	48					375	BETWEEN GROUPS	1.4988	2	0.7494	0.4730	-0.0028
	M	3.062	259	68	3.117			WITHIN GROUPS	589.3386	372	1.5842		
	SD	1.080	1.276	1.309	1.257			TOTAL	590.8373	374			
10	N	55					421	BETWEEN GROUPS	9.3008	2	4.6504	3.0038	0.0094
	M	2.800	289	77	2.796			WITHIN GROUPS	647.1315	418	1.5482		
	SD	1.208	1.224	1.343	1.250			TOTAL	656.4323	420			
11	N	62					485	BETWEEN GROUPS	2.6608	2	1.4304	0.8773	-0.0005
	M	2.964	336	87	2.932			WITHIN GROUPS	785.8939	482	1.6305		
	SD	1.094	1.328	1.193	1.277			TOTAL	788.7546	484			
12	N	70					547	BETWEEN GROUPS	0.6072	2	0.3036	0.2180	-0.0029
	M	2.457	374	103	2.433			WITHIN GROUPS	757.7072	544	1.3928		
	SD	1.259	1.161	1.195	1.178			TOTAL	758.3144	546			

LLJYD 1-14: READING DEFICIENCY ANALYSIS OF VARIANCE RUNS

LLJYD 1-140: WHITE FEMALES - High SES

J	N	M	SD	1	2	3	TOTAL	SOURCE	SUM OF SQUARES	DF	MEAN SQUARE	F RATIO	OMEGA SQ
13	N	56					443	BETWEEN GROUPS	2844.0593	2	1422.0296	24.9177	0.0975
	M	37.125	310	77	46.481	7.306	42.725	WITHIN GROUPS	25110.3426	440	57.0690		
	SD	8.002	7.414				7.953	TOTAL	27554.4018	442			
14	N	93					732	BETWEEN GROUPS	37143.3344	2	18571.6672	41.1911	0.0989
	M	52.043	491	148	77.270	14.029	66.046	WITHIN GROUPS	328681.0864	729	450.8657		
	SD	39.928	17.675				22.371	TOTAL	365824.4208	731			
15	N	72					554	BETWEEN GROUPS	0.1547	2	0.0774	0.7035	-0.0011
	M	2.917	378	104	2.933	0.320	2.903	WITHIN GROUPS	60.5818	551	0.1099		
	SD	0.366	0.328				0.331	TOTAL	60.7365	553			
16	N	93					731	BETWEEN GROUPS	31296.7964	2	15648.3982	103.3512	0.2188
	M	50.154	491	147	79.014	14.669	68.033	WITHIN GROUPS	110226.4156	728	151.4099		
	SD	10.544	11.031				13.924	TOTAL	141523.2120	730			
17	N	59					461	BETWEEN GROUPS	704.5254	2	352.2627	1.6176	0.0027
	M	109.441	112.333	113.929	16.542		112.254	WITHIN GROUPS	99738.7805	458	217.7703		
	SD	14.670	14.231				14.777	TOTAL	100443.3059	460			
18	N	93					732	BETWEEN GROUPS	42079.1340	2	21039.5670	160.1580	0.3031
	M	51.161	491	148	78.047	12.087	66.184	WITHIN GROUPS	95766.9685	729	131.3676		
	SD	10.191	11.299				13.732	TOTAL	137846.1025	731			
19	N	91					724	BETWEEN GROUPS	2417.0872	2	1208.5436	24.4283	0.0608
	M	59.440	63.880	65.953	7.296		63.746	WITHIN GROUPS	35670.1504	721	49.4732		
	SD	7.516	6.856				7.258	TOTAL	38087.2376	723			
20	N	92					720	BETWEEN GROUPS	5330.7167	2	2665.3584	37.5512	0.0922
	M	60.152	484	144	69.847	8.104	66.461	WITHIN GROUPS	50892.1944	717	70.9794		
	SD	8.904	8.425				8.843	TOTAL	56222.9111	719			
21	N	85					672	BETWEEN GROUPS	2405.4610	2	1202.7305	17.5150	0.0468
	M	32.607	453	130	39.331	7.922	36.371	WITHIN GROUPS	45939.2756	669	68.6686		
	SD	8.307	8.384				8.488	TOTAL	48344.7366	671			
22	N	89					672	BETWEEN GROUPS	2022.7239	2	1011.3620	20.1015	0.0538
	M	32.157	453	130	39.462	7.856	36.381	WITHIN GROUPS	46971.7522	669	70.2119		
	SD	8.532	8.453				8.614	TOTAL	48994.4762	671			
23	N	79					593	BETWEEN GROUPS	2437.0046	2	1218.5023	14.9340	0.0449
	M	28.500	400	114	35.728	9.156	32.880	WITHIN GROUPS	48139.4945	590	81.5924		
	SD	8.223	9.148				9.243	TOTAL	50576.4992	592			
24	N	89					672	BETWEEN GROUPS	1214.5751	2	607.2876	7.5428	0.0191
	M	31.647	453	130	30.685	8.694	34.436	WITHIN GROUPS	53862.6734	669	80.5122		
	SD	9.041	9.038				9.060	TOTAL	55077.2485	671			

LLLOYD 1-14: READING DEFICIENCY ANALYSIS OF VARIANCE KUNS

LLJYU 1-14b: WHITE FEMALES - High SES

J	N	M	SD	1	2	3	TOTAL	SOURCE	SUM OF SQUARES	DF	MEAN SQUARE	F RATIO	UMEGA SQ
25	N	M	SD	56 30.339 8.758	319 31.661 10.852	80 35.425 11.497	455 32.160 10.688	BETWEEN GROUPS WITHIN GROUPS TOTAL	1117.7480 50739.5393 51857.2879	2 452 454	558.8743 112.2556	4.9786	0.0172
26	N	M	SD	87 34.908 7.585	452 38.259 7.914	130 40.292 7.805	669 38.218 7.983	BETWEEN GROUPS WITHIN GROUPS TOTAL	1513.2662 41054.8713 42568.1375	2 666 668	756.6331 61.6440	12.2742	0.0326
27	N	M	SD	34 26.441 10.258	254 32.933 11.319	77 38.312 10.716	365 33.463 11.504	BETWEEN GROUPS WITHIN GROUPS TOTAL	3557.9866 44614.7640 48172.7507	2 362 364	1778.9933 123.2452	14.4346	0.0686
28	N	M	SD	88 39.670 7.122	450 42.560 6.995	127 44.402 6.345	665 42.529 7.009	BETWEEN GROUPS WITHIN GROUPS TOTAL	1164.8353 31452.8429 32617.6782	2 662 664	582.4177 47.5118	12.2584	0.0328
29	N	M	SD	82 37.651 7.702	426 39.648 7.638	121 41.140 7.576	630 39.671 7.685	BETWEEN GROUPS WITHIN GROUPS TOTAL	600.3236 36548.5621 37148.8857	2 627 629	300.1618 58.2913	5.1493	0.0130
30	N	M	SD	68 38.500 6.846	450 40.476 7.090	128 41.141 7.171	666 40.342 7.105	BETWEEN GROUPS WITHIN GROUPS TOTAL	388.2461 33181.6999 33569.9459	2 663 665	194.1230 50.0478	3.8788	0.0086
31	N	M	SD	90 33.869 9.998	458 38.740 8.867	128 42.094 8.014	676 38.729 9.153	BETWEEN GROUPS WITHIN GROUPS TOTAL	3527.6154 32987.8447 36515.4601	2 673 675	1778.8077 78.7338	22.5927	0.0600
32	N	M	SD	81 32.593 9.052	424 36.974 9.651	122 41.148 8.936	627 37.220 9.729	BETWEEN GROUPS WITHIN GROUPS TOTAL	3042.0124 55615.6144 58657.6268	2 624 626	1821.0062 89.1276	20.4315	0.0584
33	N	M	SD	76 31.269 7.702	404 35.822 9.085	115 38.304 9.114	597 35.705 9.124	BETWEEN GROUPS WITHIN GROUPS TOTAL	2317.2516 47300.8623 49618.1139	2 594 596	1158.6258 79.6311	14.5499	0.0434
34	N	M	SD	75 28.933 7.193	390 32.149 9.306	109 35.826 9.490	574 32.427 9.291	BETWEEN GROUPS WITHIN GROUPS TOTAL	2204.6977 47259.7291 49464.4268	2 571 573	1102.3489 82.7566	13.3188	0.0412
35	N	M	SD	68 30.426 7.779	355 33.194 8.775	98 35.949 8.140	521 33.351 8.659	BETWEEN GROUPS WITHIN GROUPS TOTAL	1251.7557 37736.9660 38988.7217	2 518 520	625.8779 72.8513	8.5912	0.0283
36	N	M	SD	65 32.958 7.506	336 35.839 7.327	91 37.813 7.453	492 35.821 7.483	BETWEEN GROUPS WITHIN GROUPS TOTAL	501.3607 26590.8995 27092.2602	2 489 491	450.6804 54.3781	8.2879	0.0288

LLJYD 1-14: READING DEFICIENCY ANALYSIS OF VARIANCE KUNS

LLJYD 1-148: WHITE FEMALES - High SES

J	N	1	2	3	TOTAL	SOURCE	SUM OF SQUARES	DF	MEAN SQUARE	F RATIO	OMEGA SQ
37	N	88	455	130	673	BETWEEN GROUPS	7213.1824	2	3606.5912	18.4048	0.0492
	M	103.591	110.220	115.300	110.334	WITHIN GROUPS	131292.5947	670	195.9591		
	SU	13.507	13.596	15.619	14.357	TOTAL	138505.7771	672			
38	N	69	355	95	519	BETWEEN GROUPS	5339.0069	2	2669.5034	14.3474	0.0489
	M	105.159	111.090	116.623	111.320	WITHIN GROUPS	96007.8987	516	186.0618		
	SU	12.839	13.573	14.435	13.988	TOTAL	101346.9056	518			
39	N	40	238	74	352	BETWEEN GROUPS	0.4613	2	0.2306	0.1377	-0.0049
	M	3.025	3.004	3.095	3.026	WITHIN GROUPS	584.3086	349	1.6742		
	SU	1.291	1.301	1.273	1.291	TOTAL	584.7699	351			
40	N	86	444	126	656	BETWEEN GROUPS	24349.0110	2	12174.5055	34.5515	0.0928
	M	57.651	78.912	89.310	79.433	WITHIN GROUPS	230090.0378	653	352.3584		
	SU	15.595	19.284	18.905	19.709	TOTAL	254439.0488	655			
41	N	88	447	127	662	BETWEEN GROUPS	18081.0956	2	9040.5478	29.4150	0.0791
	M	64.727	73.342	83.016	74.053	WITHIN GROUPS	202540.0539	659	307.3445		
	SU	16.541	17.365	18.739	18.269	TOTAL	220621.1495	661			
42	N	85	443	125	653	BETWEEN GROUPS	26800.9636	2	13400.4818	26.6048	0.0727
	M	63.294	77.293	86.304	77.196	WITHIN GROUPS	327395.9461	650	503.6861		
	SU	20.879	22.499	23.252	23.308	TOTAL	354196.9096	652			
43	N	84	440	125	649	BETWEEN GROUPS	3678.2752	2	1839.1376	12.3740	0.0339
	M	65.821	71.320	74.352	71.193	WITHIN GROUPS	96014.6493	646	148.6295		
	SU	10.295	12.098	13.610	12.404	TOTAL	99692.9245	648			
44	N	82	435	122	639	BETWEEN GROUPS	16592.8650	2	8296.4325	37.4455	0.1024
	M	65.732	74.593	83.828	75.219	WITHIN GROUPS	140912.4621	636	221.5605		
	SU	12.369	14.906	16.275	15.712	TOTAL	157505.3271	638			
45	N	67	340	94	501	BETWEEN GROUPS	6776.6138	2	3388.3069	8.7403	0.0300
	M	91.627	101.265	104.223	100.531	WITHIN GROUPS	193058.1566	498	387.6670		
	SU	20.235	19.096	21.356	19.992	TOTAL	155834.7705	500			
46	N	66	340	94	500	BETWEEN GROUPS	5841.5085	2	4920.7543	15.9063	0.0563
	M	95.316	104.912	111.245	104.836	WITHIN GROUPS	153751.0435	497	309.3582		
	SU	19.625	17.416	16.518	18.106	TOTAL	163592.5520	499			
47	N	67	340	94	501	BETWEEN GROUPS	9074.6418	2	4537.3209	14.7036	0.0519
	M	92.716	103.035	107.723	102.535	WITHIN GROUPS	153675.9969	498	308.5863		
	SU	19.580	16.988	18.123	18.042	TOTAL	162750.6387	500			
48	N	71	371	99	541	BETWEEN GROUPS	812.9588	2	406.4794	14.1893	0.0465
	M	10.634	13.364	15.061	13.316	WITHIN GROUPS	15411.9912	538	28.6468		
	SU	4.984	5.369	5.542	5.481	TOTAL	16224.9501	540			

LLJYD 1-14: READING DEFICIENCY ANALYSIS OF VARIANCE RUNS

LLJYD 1-14B: WHITE FEMALES - High SES

J	N	M	SD	1	2	3	TOTAL	SOURCE	SUM OF SQUARES	DF	MEAN SQUARE	F RATIO	OMEGA SQ
49				68	372	97	537	BETWEEN GROUPS	744.5794	2	372.2897	12.6942	0.0417
				11.603	14.199	15.918	14.181	WITHIN GROUPS	15660.8992	534	29.3275		
				5.278	5.535	5.030	5.532	TOTAL	16405.4786	536			
50				70	375	100	545	BETWEEN GROUPS	844.9135	2	422.4568	18.1162	0.0591
				13.857	16.157	18.350	16.264	WITHIN GROUPS	12639.0388	542	23.3193		
				3.762	4.691	5.888	4.979	TOTAL	13483.9523	544			
51				70	375	99	544	BETWEEN GROUPS	200.5860	2	140.2930	4.0497	0.0111
				12.657	14.211	15.273	14.204	WITHIN GROUPS	18741.7651	541	34.6428		
				5.569	5.848	6.237	5.919	TOTAL	19022.3511	543			
52				70	368	99	537	BETWEEN GROUPS	739.9817	2	369.9909	13.7617	0.0454
				12.571	14.997	16.818	15.017	WITHIN GROUPS	14356.8674	534	26.8855		
				4.642	5.167	5.599	5.307	TOTAL	15096.8492	536			
53				71	371	96	538	BETWEEN GROUPS	857.6733	2	428.8367	14.2268	0.0469
				11.310	13.563	15.854	13.675	WITHIN GROUPS	10126.4029	535	30.1428		
				5.067	5.636	5.207	5.624	TOTAL	10984.0762	537			
54				70	370	98	538	BETWEEN GROUPS	1020.0158	2	510.0079	17.1186	0.0565
				11.329	14.232	16.327	14.236	WITHIN GROUPS	15939.0047	535	29.7925		
				4.818	5.534	5.576	5.620	TOTAL	16959.0204	537			
55				71	365	98	534	BETWEEN GROUPS	1040.8770	2	520.4385	19.5775	0.0651
				12.789	15.745	17.816	15.732	WITHIN GROUPS	14115.8290	531	26.5835		
				5.234	5.095	5.323	5.333	TOTAL	15156.7060	533			
56				71	365	97	533	BETWEEN GROUPS	1146.1199	2	573.0599	18.7088	0.0623
				13.028	15.685	18.278	15.803	WITHIN GROUPS	16234.1953	530	30.6306		
				5.048	5.567	5.746	5.716	TOTAL	17380.3152	532			
57				93	491	148	732	BETWEEN GROUPS	42825.4474	2	21412.7237	1011.5623	0.7341
				87.022	100.124	113.818	101.228	WITHIN GROUPS	15431.4529	729	21.1680		
				4.222	4.566	4.931	8.927	TOTAL	58256.9003	731			

LLJYD 1-14: READING DEFICIENCY ANALYSIS OF VARIANCE RUNS

LLJYD 1-14C: WHITE FEMALES - Low SES

NU OF VARIABLES = 57 CLASSIFICATION VAR = # 57 WITH ELIMINATION CODE FOR CLAS. VAR = 999.000

CLAS CATEGORY UPPER LIMITS = 91.000, 108.000, 990.000, 0.0 , 0.0 , 0.0 , 0.0 , 0.0 , 0.0 , 0.0 , 0.0 , 0.0 ,

RESTRICTION VAR = # 6 WITH RANGE OF 4.000 TO 5.000

CODES TO BE EXCLUDED FOR VARS 1 TU 57 ARE 0.0 , 0.0 , 0.0 , 0.0 , 0.0 , 0.0 , 0.0 , 0.0 , 0.0 , 0.0 , -9.000, 0.0 , 0.0 , 0.0 ,
 0.0 , 0.0 , 0.0 , 0.0 , 0.0 , 0.0 , 0.0 , 0.0 , 0.0 , 1.000, 0.0 , 0.0 , 0.0 ,
 0.0 , 0.0 , 0.0 , 0.0 , 0.0 , 0.0 , 0.0 , 0.0 , 0.0 , 0.0 , 0.0 , 0.0 , 0.0 ,
 0.0 , 0.0 , 0.0 , 0.0 , 0.0 , 0.0 , 0.0 , 0.0 , 999.000, 0.0 , 0.0 , 0.0 ,

FORMAT OF DATA IS (57F6.0)

MAX # OF OBS TO BE INCLUDED THIS PROBLEM = 1670 DATA TO BE READ FROM TAPE WITHOUT REMIND

GROUP 1 = UNDERACHIEVERS

GROUP 2 = AVERAGE ACHIEVERS

GROUP 3 = OVERACHIEVERS

LLOYD 1-14: READING DEFICIENCY ANALYSIS OF VARIANCE RUNS

LLOYD 1-14C: WHITE FEMALES - Low SES

J	N	1	2	3	TOTAL	SOURCE	SUM OF SQUARES	DF	MEAN SQUARE	F RATIO	OMEGA SQ
1	N	135	570	87	792	BETWEEN GROUPS	591.5901	2	295.7950	9.3220	0.0206
	M	137.861	139.314	141.218	139.279	WITHIN GROUPS	25035.7420	789	31.7310		
	SU	5.059	5.700	6.022	5.692	TOTAL	25627.3321	791			
2	N	134	563	87	784	BETWEEN GROUPS	4.0514	2	2.0257	2.0684	0.0027
	M	4.681	4.687	4.713	4.723	WITHIN GROUPS	764.8861	781	0.9794		
	SU	0.997	0.992	0.963	0.991	TOTAL	768.9375	783			
3	N	134	565	87	786	BETWEEN GROUPS	0.5644	2	0.2822	0.1839	-0.0021
	M	4.231	4.281	4.333	4.279	WITHIN GROUPS	1201.4166	783	1.5344		
	SU	1.371	1.234	1.042	1.237	TOTAL	1201.9809	785			
4	N	135	570	87	792	BETWEEN GROUPS	2.7774	2	1.3887	0.3849	-0.0016
	M	2.393	2.382	2.195	2.364	WITHIN GROUPS	2846.4953	789	3.6077		
	SU	1.762	1.964	1.655	1.698	TOTAL	2849.2727	791			
5	N	134	562	87	783	BETWEEN GROUPS	2.0003	2	1.0001	2.7455	0.0044
	M	5.361	5.246	5.253	5.269	WITHIN GROUPS	284.1402	780	0.3643		
	SU	0.623	0.597	0.614	0.605	TOTAL	286.1405	782			
6	N	135	570	87	792	BETWEEN GROUPS	0.4766	2	0.2383	2.0753	0.0027
	M	4.165	4.119	4.138	4.133	WITHIN GROUPS	90.6029	789	0.1148		
	SU	0.390	0.324	0.347	0.339	TOTAL	91.0795	791			
7	N	134	553	85	772	BETWEEN GROUPS	1046.9033	2	523.4516	23.8404	0.0559
	M	17.644	19.837	22.059	19.702	WITHIN GROUPS	16884.5734	789	21.9565		
	SU	5.155	4.512	5.017	4.823	TOTAL	17931.4767	771			
8	N	135	570	87	792	BETWEEN GROUPS	1437.0529	2	718.5265	3.3717	0.0060
	M	104.393	101.435	99.506	101.727	WITHIN GROUPS	168142.0380	789	213.1078		
	SU	14.843	14.160	16.891	14.642	TOTAL	169579.0909	791			
9	N	75	318	46	439	BETWEEN GROUPS	12.8404	2	6.4202	3.0261	0.0091
	M	2.667	3.110	2.913	3.018	WITHIN GROUPS	425.0138	436	2.1216		
	SU	1.245	1.524	1.274	1.463	TOTAL	437.8542	438			
10	N	80	355	57	496	BETWEEN GROUPS	2.0223	2	1.0111	0.5640	-0.0018
	M	2.625	2.777	2.649	2.738	WITHIN GROUPS	863.9052	493	1.7929		
	SU	1.151	1.386	1.275	1.338	TOTAL	865.9274	495			
11	N	93	408	66	567	BETWEEN GROUPS	5.4993	2	2.7499	1.6288	0.0022
	M	2.634	2.841	3.000	2.825	WITHIN GROUPS	352.2145	564	1.6883		
	SU	1.159	1.301	1.463	1.301	TOTAL	357.7143	566			
12	N	107	443	70	620	BETWEEN GROUPS	3.6214	2	1.7107	1.1375	0.0004
	M	2.271	2.436	2.271	2.389	WITHIN GROUPS	927.8995	617	1.5039		
	SU	1.137	1.230	1.329	1.227	TOTAL	931.5210	619			

LLJYD 1-14: READING EFFICIENCY ANALYSIS OF VARIANCE RUNS

LLJYU 1-14: WHITE FEMALES - LOW SES

J	N	M	SU	1	2	3	TOTAL	SOURCE	SUM OF SQUARES	DF	MEAN SQUARE	F RATIO	OMEGA SQ
13	N	M	SU	84 56.405 9.155	371 39.585 8.138	52 43.481 8.978	507 39.456 8.385	BETWEEN GROUPS WITHIN GROUPS TOTAL	1630.5439 33943.2943 35573.8383	2 504 506	815.2720 67.3478	12.1054	0.0420
14	N	M	SU	135 45.548 12.343	570 57.698 12.994	87 69.184 14.251	792 56.889 14.438	BETWEEN GROUPS WITHIN GROUPS TOTAL	5087.6295 133944.5928 164832.2222	2 789 791	15443.8147 169.7650	90.9717	0.1851
15	N	M	SU	118 2.695 0.462	473 2.748 0.449	87 2.791 0.445	658 2.743 0.451	BETWEEN GROUPS WITHIN GROUPS TOTAL	0.4413 133.1529 133.5942	2 655 657	0.2207 0.2033	1.0855	0.0003
16	N	M	SU	135 54.681 20.719	570 60.746 11.217	87 72.414 15.161	792 60.994 14.471	BETWEEN GROUPS WITHIN GROUPS TOTAL	16760.4472 148882.5212 165642.9684	2 789 791	8380.2236 188.6977	44.4108	0.0988
17	N	M	SU	86 103.116 16.015	401 105.207 15.418	58 110.759 14.871	545 105.488 15.555	BETWEEN GROUPS WITHIN GROUPS TOTAL	2126.4097 129493.2783 131619.6881	2 542 544	1063.2049 238.9175	4.4501	0.0125
18	N	M	SU	135 48.030 10.958	570 58.802 10.913	87 70.425 13.030	792 58.242 12.602	BETWEEN GROUPS WITHIN GROUPS TOTAL	27171.7105 98451.7441 125623.4545	2 789 791	13585.8552 124.7804	108.8781	0.2141
19	N	M	SU	132 58.515 8.359	563 60.753 7.452	87 63.345 6.928	782 60.664 7.652	BETWEEN GROUPS WITHIN GROUPS TOTAL	1239.2417 44489.3069 45728.5486	2 779 781	619.6208 57.1108	10.8495	0.0246
20	N	M	SU	132 58.174 9.970	558 62.633 9.100	86 66.337 9.572	776 62.285 9.548	BETWEEN GROUPS WITHIN GROUPS TOTAL	3710.1608 66935.8997 70646.0606	2 773 775	1855.0804 86.5924	21.4231	0.0500
21	N	M	SU	131 28.628 8.142	540 31.061 8.474	80 33.812 8.987	751 30.929 8.570	BETWEEN GROUPS WITHIN GROUPS TOTAL	1369.4171 53707.8426 55077.2597	2 748 750	684.7085 71.8019	9.5361	0.0222
22	N	M	SU	131 28.618 8.388	540 30.720 8.628	80 34.137 9.391	751 30.718 8.775	BETWEEN GROUPS WITHIN GROUPS TOTAL	1512.9750 56243.1795 57756.1545	2 748 750	756.4875 75.1914	10.0608	0.0236
23	N	M	SU	120 27.475 8.404	495 28.947 9.522	71 31.634 9.519	686 28.968 9.383	BETWEEN GROUPS WITHIN GROUPS TOTAL	772.2562 59539.0382 60311.2945	2 683 685	386.1281 87.1728	4.4295	0.0099
24	N	M	SU	131 28.412 8.440	540 29.963 8.838	80 32.487 10.005	751 29.961 8.951	BETWEEN GROUPS WITHIN GROUPS TOTAL	824.8929 59264.9872 60089.8802	2 748 750	412.4465 79.2313	5.2056	0.0111

LLJYD 1-14: READING DEFICIENCY ANALYSIS OF VARIANCE RUNS

LLJYD 1-14C: WHITE FEMALES - Low SES

J	N	M	SU	1	2	3	TOTAL	SOURCE	SUM OF SQUARES	DF	MEAN SQUARE	F RATIO	UMEGA SQ
25	N	101	414	58	573	BETWEEN GROUPS	41.1472	2	20.5736	2	0.1948	-0.0026	
	M	27.743	28.423	28.552	28.316	WITHIN GROUPS	60206.6783	570	105.6258	570			
	SU	9.225	10.452	10.741	10.263	TOTAL	60247.8255	572		572			
26	N	130	535	80	745	BETWEEN GROUPS	559.6763	2	279.8382	2	4.0029	0.0080	
	M	32.838	34.099	36.200	34.105	WITHIN GROUPS	51872.1572	742	69.9086	742			
	SU	8.254	8.336	8.695	8.395	TOTAL	52431.8336	744		744			
27	N	30	134	23	187	BETWEEN GROUPS	36.0715	2	18.0357	2	0.1344	-0.0093	
	M	29.333	30.351	30.913	30.257	WITHIN GROUPS	25109.0077	184	136.4620	184			
	SU	12.601	11.415	12.011	11.627	TOTAL	25145.0791	186		186			
28	N	129	531	79	739	BETWEEN GROUPS	514.3691	2	259.6846	2	4.2721	0.0088	
	M	37.364	38.823	40.595	38.758	WITHIN GROUPS	44738.2736	736	60.7857	736			
	SU	6.136	7.629	8.335	7.831	TOTAL	45257.6428	738		738			
29	N	126	490	77	693	BETWEEN GROUPS	355.8981	2	177.9490	2	2.8717	0.0054	
	M	34.786	35.934	37.506	35.903	WITHIN GROUPS	42756.6243	690	61.9661	690			
	SU	8.009	7.865	7.689	7.893	TOTAL	43112.5224	692		692			
30	N	130	536	79	745	BETWEEN GROUPS	152.2151	2	76.1075	2	1.2557	0.0007	
	M	35.300	36.116	37.038	36.071	WITHIN GROUPS	44973.0144	742	60.6105	742			
	SU	7.584	7.763	8.253	7.788	TOTAL	45125.2295	744		744			
31	N	131	536	81	748	BETWEEN GROUPS	2081.4035	2	1040.7018	2	11.4487	0.0272	
	M	29.870	32.813	36.259	32.671	WITHIN GROUPS	67721.6927	745	90.9016	745			
	SU	9.416	9.481	10.063	9.667	TOTAL	69803.0963	747		747			
32	N	126	517	79	722	BETWEEN GROUPS	820.8336	2	410.4168	2	4.2612	0.0090	
	M	29.968	32.195	33.886	31.992	WITHIN GROUPS	69251.1166	719	96.3159	719			
	SU	9.440	9.710	11.014	9.858	TOTAL	70071.9501	721		721			
33	N	120	497	75	692	BETWEEN GROUPS	636.9980	2	318.4990	2	4.0177	0.0086	
	M	29.967	31.330	33.680	31.348	WITHIN GROUPS	54620.0700	689	79.2744	689			
	SU	8.284	8.947	9.550	8.942	TOTAL	55257.0679	691		691			
34	N	113	459	70	642	BETWEEN GROUPS	432.8240	2	216.4120	2	2.5484	0.0048	
	M	27.681	28.969	30.843	28.947	WITHIN GROUPS	54265.3754	639	84.9223	639			
	SU	8.734	9.224	9.864	9.238	TOTAL	54698.1994	641		641			
35	N	95	401	58	554	BETWEEN GROUPS	376.4627	2	188.2314	2	2.3562	0.0049	
	M	28.295	29.367	31.517	29.408	WITHIN GROUPS	44017.3423	551	79.8863	551			
	SU	7.909	9.063	9.627	8.960	TOTAL	44393.8051	553		553			
36	N	80	350	53	483	BETWEEN GROUPS	255.3691	2	127.6845	2	2.1194	0.0046	
	M	31.787	33.071	34.604	33.027	WITHIN GROUPS	28917.2810	480	60.2443	480			
	SU	7.853	7.775	7.533	7.780	TOTAL	29172.6501	482		482			



LLJYU 1-14: READING DEFICIENCY ANALYSIS OF VARIANCE RUNS

LLJYU 1-14C: WHITE FEMALES - Low SES

J	N	1	2	3	TOTAL	SOURCE	SUM OF SQUARES	DF	MEAN SQUARE	F RATIO	OMEGA SQ
37	M SU	128 96.063 12.877	533 101.595 13.206	82 107.024 13.784	743 101.241 13.512	BETWEEN GROUPS WITHIN GROUPS TOTAL	6241.9597 129223.9165 135465.8762	2 740 742	3120.9798 174.6269	17.8723	0.0434
38	M SU	101 101.238 12.176	411 103.844 12.049	59 108.356 12.978	571 103.849 12.284	BETWEEN GROUPS WITHIN GROUPS TOTAL	1887.1908 84123.8565 86011.0473	2 568 570	943.5954 148.1054	6.3711	0.0185
39	M SU	69 3.420 1.333	294 3.310 1.292	41 3.171 1.358	404 3.314 1.304	BETWEEN GROUPS WITHIN GROUPS TOTAL	1.6269 883.4498 685.0767	2 401 403	0.8135 1.87044	0.4773	-0.0026
40	M SU	122 59.730 16.179	527 67.520 16.858	80 77.575 19.656	729 67.320 17.664	BETWEEN GROUPS WITHIN GROUPS TOTAL	15463.3649 211685.1646 227148.5295	2 726 728	7731.6825 291.5774	26.5167	0.0654
41	M SU	127 57.740 15.494	528 65.824 16.457	81 69.272 17.783	736 64.808 16.773	BETWEEN GROUPS WITHIN GROUPS TOTAL	8502.9186 198273.0692 206775.9878	2 733 735	4251.4593 270.4953	15.7173	0.0385
42	M SU	120 54.242 21.602	522 62.983 22.379	80 74.587 23.814	722 62.866 22.975	BETWEEN GROUPS WITHIN GROUPS TOTAL	19313.9441 361264.0240 380577.9681	2 719 721	9656.9721 502.4534	19.2196	0.0480
43	M SU	123 62.618 11.290	518 65.485 11.219	79 67.949 12.053	720 65.265 11.398	BETWEEN GROUPS WITHIN GROUPS TOTAL	1456.1174 91954.2146 93410.3319	2 717 719	728.0587 128.2486	5.6769	0.0128
44	M SU	117 59.949 13.700	501 66.182 13.382	80 71.612 15.671	698 65.759 14.045	BETWEEN GROUPS WITHIN GROUPS TOTAL	6780.4136 130707.1509 137487.5645	2 695 697	3390.2068 188.0678	18.0265	0.0465
45	M SU	93 86.244 20.570	387 90.057 21.110	56 101.357 18.678	536 90.593 21.110	BETWEEN GROUPS WITHIN GROUPS TOTAL	8278.7401 230150.5957 238409.3358	2 533 535	4139.3700 431.7647	9.5871	0.0310
46	M SU	93 89.817 19.412	387 94.884 19.768	56 104.661 17.477	536 95.026 19.814	BETWEEN GROUPS WITHIN GROUPS TOTAL	7729.4208 202298.2135 210027.6343	2 533 535	3864.7104 379.5464	10.1824	0.0331
47	M SU	93 88.045 18.511	387 92.442 19.079	56 103.071 16.922	536 92.789 19.132	BETWEEN GROUPS WITHIN GROUPS TOTAL	8062.1931 181774.9841 195837.1772	2 533 535	4031.0966 352.2983	11.4423	0.0375
48	M SU	110 10.127 4.352	446 11.247 4.658	69 13.377 4.784	625 11.285 4.690	BETWEEN GROUPS WITHIN GROUPS TOTAL	450.0146 13275.2910 13725.3056	2 622 624	225.0073 21.3429	10.5425	0.0296



LLDUD 1-14: READING DEFICIENCY ANALYSIS OF VARIANCE RUNS

LLDUD 1-14C: WHITE FEMALES - Low SES

J	N	M	SD	1	2	3	TOTAL	SOURCE	SUM OF SQUARES	DF	MEAN SQUARE	F RATIO	OMEGA SQ
49	N			107			616	BETWEEN GROUPS	681.1877	2	340.5939	12.7372	0.0367
	M			9.748		68	11.635	WITHIN GROUPS	16391.6288	613	26.7400		
	SD			4.804		5.575	5.269	TOTAL	17072.8166	615			
50	N			107			614	BETWEEN GROUPS	150.0987	2	75.0493	3.9127	0.0094
	M			12.916		67	13.827	WITHIN GROUPS	11719.6016	611	19.1810		
	SD			4.723		4.243	4.400	TOTAL	11869.7003	613			
51	N			109			611	BETWEEN GROUPS	76.7721	2	38.3861	1.4389	0.0014
	M			11.284		66	12.015	WITHIN GROUPS	16220.0953	608	26.6778		
	SD			5.300		4.903	5.169	TOTAL	16296.8674	610			
52	N			109			614	BETWEEN GROUPS	512.8927	2	256.4463	11.6490	0.0335
	M			11.312		69	12.832	WITHIN GROUPS	13450.8288	611	22.0144		
	SD			4.676		5.353	4.773	TOTAL	13963.7215	613			
53	N			108			620	BETWEEN GROUPS	612.0305	2	306.0153	12.2472	0.0350
	M			10.037		67	11.439	WITHIN GROUPS	15410.6404	617	24.9865		
	SD			4.803		5.235	5.089	TOTAL	16028.6710	619			
54	N			110			613	BETWEEN GROUPS	674.5344	2	337.2672	13.7815	0.0400
	M			10.036		66	11.979	WITHIN GROUPS	14928.1899	610	24.4724		
	SD			5.083		5.011	5.049	TOTAL	15602.7243	612			
55	N			111			621	BETWEEN GROUPS	589.3454	2	294.6727	12.3488	0.0353
	M			11.414		69	12.923	WITHIN GROUPS	14746.9444	618	23.8624		
	SD			5.139		4.941	4.974	TOTAL	15336.2899	620			
56	N			108			613	BETWEEN GROUPS	428.1662	2	214.0831	7.8296	0.0218
	M			11.611		66	13.033	WITHIN GROUPS	16074.1812	610	27.3429		
	SD			4.967		5.952	5.287	TOTAL	17107.3475	612			
57	N			135			792	BETWEEN GROUPS	16778.9264	2	18289.4632	801.7479	0.6898
	M			36.859		67	98.934	WITHIN GROUPS	16355.6595	789	20.7423		
	SD			5.117		3.789	8.181	TOTAL	52544.5859	791			

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LLOYD 1-14: READING DEFICIENCY ANALYSIS OF VARIANCE RUNS

LLOYD 1-14E: WHITE FEMALES - High IQ

J	N	M	SD	1	2	3	TOTAL	SOURCE	SUM OF SQUARES	DF	MEAN SQUARE	F RATIO	OMEGA SQ
1	N	166			747	164	1077	BETWEEN GROUPS	880.0669	2	440.0335	27.2634	0.0465
	M	136.012		137.728	139.274	137.699	137.699	WITHIN GROUPS	17334.4623	1074	16.1401		
	SD	3.973		4.070	3.814	4.114	4.114	TOTAL	18214.5292	1076			
2	N	160			714	158	1032	BETWEEN GROUPS	77.9850	2	38.9925	12.9554	0.0226
	M	3.825		3.359	2.835	3.351	3.351	WITHIN GROUPS	3097.0344	1029	3.0098		
	SD	1.681		1.724	1.833	1.755	1.755	TOTAL	3175.0194	1031			
3	N	160			719	158	1037	BETWEEN GROUPS	21.0124	2	10.5062	4.4701	0.0066
	M	3.737		3.444	3.228	3.456	3.456	WITHIN GROUPS	2430.2412	1034	2.3503		
	SD	1.430		1.546	1.576	1.538	1.538	TOTAL	2451.2536	1036			
4	N	166			747	164	1077	BETWEEN GROUPS	2.2602	2	1.1301	0.5289	-0.0009
	M	1.928		1.845	1.762	1.845	1.845	WITHIN GROUPS	2294.8448	1074	2.1367		
	SD	1.524		1.496	1.218	1.461	1.461	TOTAL	2297.1049	1076			
5	N	158			707	158	1023	BETWEEN GROUPS	64.3682	2	32.1841	12.9037	0.0227
	M	4.304		3.939	3.411	3.914	3.914	WITHIN GROUPS	2544.0619	1020	2.4942		
	SD	1.449		1.589	1.659	1.598	1.598	TOTAL	2608.4301	1022			
6	N	158			711	158	1027	BETWEEN GROUPS	46.0869	2	23.0435	16.9942	0.0302
	M	3.361		3.060	2.608	3.037	3.037	WITHIN GROUPS	1388.5070	1024	1.3560		
	SD	1.072		1.174	1.209	1.182	1.182	TOTAL	1434.5940	1026			
7	N	157			707	157	1021	BETWEEN GROUPS	1624.8425	2	812.4212	48.6343	0.0853
	M	20.414		22.376	24.936	22.468	22.468	WITHIN GROUPS	17005.3730	1018	16.7047		
	SD	4.235		4.055	4.082	4.274	4.274	TOTAL	18630.2155	1020			
8	N	166			747	164	1077	BETWEEN GROUPS	448.2949	2	224.1475	2.4809	0.0027
	M	113.608		113.683	115.463	113.942	113.942	WITHIN GROUPS	97034.1359	1074	90.3484		
	SD	8.962		9.520	9.962	9.518	9.518	TOTAL	97482.4308	1076			
9	N	89			380	82	551	BETWEEN GROUPS	4.7594	2	2.3797	1.3669	0.0013
	M	2.899		3.042	3.232	3.047	3.047	WITHIN GROUPS	954.0138	548	1.7409		
	SD	1.197		1.333	1.382	1.320	1.320	TOTAL	958.7731	550			
10	N	99			434	97	630	BETWEEN GROUPS	1.2817	2	0.6409	0.3754	-0.0020
	M	2.758		2.763	2.887	2.781	2.781	WITHIN GROUPS	1070.4897	627	1.7073		
	SD	1.144		1.332	1.345	1.305	1.305	TOTAL	1071.7714	629			
11	N	111			500	105	716	BETWEEN GROUPS	3.6247	2	1.8123	1.1164	0.0003
	M	2.766		2.856	3.019	2.866	2.866	WITHIN GROUPS	1157.5038	713	1.6234		
	SD	1.061		1.306	1.323	1.274	1.274	TOTAL	1161.1285	715			
12	N	124			552	122	798	BETWEEN GROUPS	1.6486	2	0.8243	0.6109	-0.0010
	M	2.274		2.391	2.320	2.362	2.362	WITHIN GROUPS	1072.6885	795	1.3493		
	SD	1.198		1.152	1.166	1.161	1.161	TOTAL	1074.3371	797			

LLOYD 1-14: READING DEFICIENCY ANALYSIS OF VARIANCE RUNS

LLOYD 1-14E: WHITE FEMALES - High IQ

J	N	M	SD	1	2	3	TOTAL	SOURCE	SUM OF SQUARES	DF	MEAN SQUARE	F RATIO	OMEGA SQ
13	N	98					651	BETWEEN GROUPS	3690.8934	2	1845.4467	43.5520	0.1156
	M	39.306		91	462	48.044	44.089	WITHIN GROUPS	27457.9392	648	42.3734		
	SD	7.884		5.190	6.421		6.923	TOTAL	31148.8326	650			
14	N	166					1077	BETWEEN GROUPS	72559.5266	2	36279.7633	347.9132	0.3918
	M	52.108		164	747	81.732	67.420	WITHIN GROUPS	111994.7761	1074	104.2782		
	SD	10.095		10.454	10.184		13.097	TOTAL	184554.3027	1076			
15	N	141					834	BETWEEN GROUPS	0.2038	2	0.1019	0.8615	-0.0003
	M	2.858		117	576	2.915	2.882	WITHIN GROUPS	98.2806	831	0.1183		
	SD	0.389		0.310	0.339		0.344	TOTAL	98.4844	833			
16	N	166					1076	BETWEEN GROUPS	51674.8624	2	25837.4312	185.5979	0.2555
	M	59.741		163	747	84.276	69.758	WITHIN GROUPS	149374.3123	1073	139.2118		
	SD	18.078		11.177	10.041		13.676	TOTAL	201049.1747	1075			
17	N	106					693	BETWEEN GROUPS	3258.0244	2	1629.0122	9.1264	0.0229
	M	110.547		102	485	118.294	113.664	WITHIN GROUPS	123160.6365	690	178.4937		
	SD	14.156		13.537	13.143		13.516	TOTAL	126418.6609	692			
18	N	166					1077	BETWEEN GROUPS	67528.3961	2	33764.1981	495.2621	0.4786
	M	54.181		164	747	82.774	67.983	WITHIN GROUPS	73219.3030	1074	68.1744		
	SD	8.320		8.414	8.208		11.437	TOTAL	140747.6992	1076			
19	N	162					1065	BETWEEN GROUPS	2907.3151	2	1453.6576	44.2163	0.0751
	M	61.981		164	739	67.951	65.064	WITHIN GROUPS	34914.3431	1062	32.8760		
	SD	6.236		6.187	5.511		5.962	TOTAL	37821.6582	1064			
20	N	162					1058	BETWEEN GROUPS	7699.5101	2	3849.7551	82.3773	0.1333
	M	62.735		160	736	72.450	68.030	WITHIN GROUPS	49303.5220	1055	46.7332		
	SD	7.766		6.407	6.707		7.344	TOTAL	57003.0321	1057			
21	N	157					979	BETWEEN GROUPS	4147.5539	2	2073.7769	35.4275	0.0657
	M	32.911		145	677	40.317	36.636	WITHIN GROUPS	57130.9916	976	58.5359		
	SD	7.639		7.302	7.726		7.916	TOTAL	61278.5455	978			
22	N	157					979	BETWEEN GROUPS	5111.4068	2	2555.7034	41.6467	0.0767
	M	32.573		145	677	40.807	36.577	WITHIN GROUPS	59893.5207	976	61.3663		
	SD	7.995		7.001	7.963		8.153	TOTAL	65004.9275	978			
23	N	143					886	BETWEEN GROUPS	4013.6280	2	2006.8140	27.0035	0.0554
	M	29.734		128	615	37.437	33.493	WITHIN GROUPS	65621.8314	883	74.3169		
	SD	7.680		8.134	8.919		8.870	TOTAL	69635.4594	885			
24	N	157					979	BETWEEN GROUPS	2822.2913	2	1411.1457	20.6791	0.0386
	M	32.248		145	677	38.366	35.125	WITHIN GROUPS	66602.5054	976	68.2403		
	SD	8.382		7.763	8.335		8.425	TOTAL	69424.7967	978			

LLOYD 1-14: READING DEFICIENCY ANALYSIS OF VARIANCE RUNS

LLOYD 1-14E: WHITE FEMALES - High IQ

J	I	2	3	TOTAL	SOURCE	SUM OF SQUARES	DF	MEAN SQUARE	F RATIO	OMEGA SQ
25	N	115	91	717	BETWEEN GROUPS	2113.8389	2	1056.9194	10.4789	0.0258
	M	30.226	36.637	32.760	WITHIN GROUPS	72014.9003	714	100.8612		
	SD	8.682	10.198	10.175	TOTAL	74128.7392	716			
26	N	156	145	972	BETWEEN GROUPS	2474.0026	2	1237.0013	22.6146	0.0426
	M	35.692	41.421	38.587	WITHIN GROUPS	53003.5642	969	54.6992		
	SD	7.446	7.215	7.559	TOTAL	55477.5669	971			
27	N	55	85	485	BETWEEN GROUPS	3452.3362	2	1726.1681	14.0513	0.0511
	M	28.982	38.671	33.594	WITHIN GROUPS	59212.6452	482	122.8478		
	SD	11.336	10.351	11.379	TOTAL	62664.9814	484			
28	N	156	144	971	BETWEEN GROUPS	1772.1687	2	886.0843	19.1131	0.0360
	M	39.724	44.465	42.453	WITHIN GROUPS	44876.4492	968	46.3600		
	SD	7.249	7.014	6.935	TOTAL	46648.6179	970			
29	N	150	137	905	BETWEEN GROUPS	1459.8053	2	729.9026	13.1972	0.0262
	M	37.273	41.745	39.667	WITHIN GROUPS	49887.0831	902	55.3072		
	SD	7.742	7.645	7.537	TOTAL	51346.8884	904			
30	N	155	145	973	BETWEEN GROUPS	925.4181	2	462.7090	9.7937	0.0178
	M	38.142	41.579	40.108	WITHIN GROUPS	45828.2510	970	47.2456		
	SD	6.700	7.059	6.935	TOTAL	46753.6691	972			
31	N	158	145	980	BETWEEN GROUPS	6120.0997	2	3060.0498	45.8027	0.0838
	M	34.513	43.476	39.124	WITHIN GROUPS	65272.7126	977	66.8093		
	SD	9.161	7.247	8.540	TOTAL	71392.8122	979			
32	N	149	140	924	BETWEEN GROUPS	5112.4879	2	2556.2439	31.4650	0.0619
	M	33.383	41.786	37.646	WITHIN GROUPS	74822.7881	921	81.2408		
	SD	6.930	8.892	9.306	TOTAL	79935.2760	923			
33	N	142	132	891	BETWEEN GROUPS	3534.0298	2	1767.0149	25.6432	0.0524
	M	32.507	39.682	36.141	WITHIN GROUPS	61190.1520	888	68.9078		
	SD	7.437	8.093	8.528	TOTAL	64724.1818	890			
34	N	140	123	858	BETWEEN GROUPS	3182.8489	2	1591.4245	20.8647	0.0443
	M	30.014	36.967	33.052	WITHIN GROUPS	65213.7909	855	76.2734		
	SD	7.515	8.930	8.934	TOTAL	68396.6399	857			
35	N	126	114	789	BETWEEN GROUPS	2196.6483	2	1098.3241	15.2377	0.0348
	M	30.770	36.807	33.427	WITHIN GROUPS	56654.4113	786	72.0794		
	SD	7.510	7.915	8.642	TOTAL	58851.0596	788			
36	N	116	106	725	BETWEEN GROUPS	1446.3809	2	723.1904	14.4548	0.0358
	M	33.603	38.660	36.324	WITHIN GROUPS	36122.4467	722	50.0311		
	SD	7.161	6.852	7.204	TOTAL	37568.8276	724			

LLOYD 1-14: READING DEFICIENCY ANALYSIS OF VARIANCE RUNS

LLOYD 1-14E: WHITE FEMALES - High IQ

J	N	M	SD	1	2	3	TOTAL	SOURCE	SUM OF SQUARES	DF	MEAN SQUARE	F RATIO	OMEGA SQ
37	N			152	671	146	969	BETWEEN GROUPS	16252.0680	2	8126.0340	63.6303	0.1149
	M			104.618	111.760	119.390	111.789	WITHIN GROUPS	123364.9846	966	127.7070		
	SD			11.565	11.182	11.564	12.010	TOTAL	139617.0526	968			
38	N			130	542	110	782	BETWEEN GROUPS	10529.7328	2	5264.8664	44.4929	0.1001
	M			106.215	112.301	119.509	112.303	WITHIN GROUPS	92179.4398	779	118.3305		
	SD			11.323	10.777	10.841	11.468	TOTAL	102709.1726	781			
39	N			88	383	83	554	BETWEEN GROUPS	1.3920	2	0.6960	0.4042	-0.0022
	M			3.205	3.120	3.024	3.119	WITHIN GROUPS	948.7452	551	1.7219		
	SD			1.323	1.311	1.306	1.311	TOTAL	950.1372	553			
40	N			149	664	144	957	BETWEEN GROUPS	46978.0149	2	23489.0074	91.9200	0.1597
	M			68.215	80.500	93.542	80.550	WITHIN GROUPS	243782.8775	954	255.5376		
	SD			14.821	16.326	15.545	17.440	TOTAL	290760.8924	956			
41	N			154	666	144	964	BETWEEN GROUPS	24201.3300	2	12100.6650	49.6060	0.0916
	M			66.526	75.471	84.556	75.399	WITHIN GROUPS	234421.9096	961	243.9354		
	SD			14.277	15.594	17.042	16.388	TOTAL	258623.2396	963			
42	N			148	664	144	956	BETWEEN GROUPS	49072.8712	2	24536.4356	63.9908	0.1164
	M			65.453	78.753	91.368	78.594	WITHIN GROUPS	365415.6560	953	383.6372		
	SD			19.337	19.786	18.864	20.833	TOTAL	414488.5272	955			
43	N			147	660	142	949	BETWEEN GROUPS	6853.2150	2	3426.6075	31.1108	0.0597
	M			67.129	72.598	76.796	72.379	WITHIN GROUPS	104194.2202	946	110.1419		
	SD			9.943	10.313	11.811	10.823	TOTAL	111047.4352	948			
44	N			143	645	142	930	BETWEEN GROUPS	26128.7946	2	13064.3973	86.6859	0.1556
	M			67.119	76.316	86.261	76.420	WITHIN GROUPS	139707.8172	927	150.7096		
	SD			11.325	12.199	13.490	13.361	TOTAL	165836.6118	929			
45	N			120	512	105	737	BETWEEN GROUPS	20619.4972	2	10309.7486	38.9050	0.0933
	M			92.775	102.838	111.867	102.486	WITHIN GROUPS	194508.6033	734	264.9981		
	SD			18.291	16.575	11.733	17.097	TOTAL	215128.1004	736			
46	N			119	512	105	736	BETWEEN GROUPS	21921.9848	2	10960.9924	57.0912	0.1323
	M			96.975	107.480	116.686	107.095	WITHIN GROUPS	140729.3576	733	191.9909		
	SD			17.001	13.942	8.375	14.876	TOTAL	162651.3424	735			
47	N			120	512	105	737	BETWEEN GROUPS	22306.9404	2	11153.4702	59.1114	0.1362
	M			94.442	105.158	114.248	104.708	WITHIN GROUPS	138495.3391	734	188.6857		
	SD			16.600	13.810	8.904	14.781	TOTAL	160802.2795	736			
48	N			134	570	114	818	BETWEEN GROUPS	1675.9524	2	837.9762	36.9786	0.0809
	M			11.276	13.611	16.491	13.630	WITHIN GROUPS	18468.8117	815	22.6611		
	SD			4.587	4.853	4.483	4.966	TOTAL	20144.7641	817			



LLOYD 1-14: READING DEFICIENCY ANALYSIS OF VARIANCE RUNS

LLOYD 1-14E: WHITE FEMALES - High IQ

J	LLOYD 1-14			TOTAL	SOURCE	SUM OF SQUARES	DF	MEAN SQUARE	F RATIO	OMEGA SQ
	1	2	3							
49	N	131	112	809	BETWEEN GROUPS	2021.5660	2	1010.7830	39.8743	0.0877
	M	11.313	17.045	14.286	WITHIN GROUPS	20431.4748	806	25.3492		
	SD	5.087	4.246	5.271	TOTAL	22453.0408	808			
50	N	132	114	819	BETWEEN GROUPS	1371.0745	2	685.5373	38.3069	0.0835
	M	14.386	19.114	16.473	WITHIN GROUPS	14603.0573	816	17.8959		
	SD	4.011	4.728	4.419	TOTAL	15974.1319	818			
51	N	134	113	815	BETWEEN GROUPS	706.7497	2	353.3749	12.9667	0.0285
	M	13.000	16.281	14.679	WITHIN GROUPS	22129.0245	812	27.2525		
	SD	5.382	5.152	5.297	TOTAL	22835.7742	814			
52	N	134	114	814	BETWEEN GROUPS	1854.7933	2	927.3966	44.1740	0.0959
	M	12.642	18.114	15.327	WITHIN GROUPS	17026.2829	811	20.9942		
	SD	4.721	4.462	4.819	TOTAL	18881.0762	813			
53	N	133	112	816	BETWEEN GROUPS	1824.3092	2	912.1546	36.9691	0.0810
	M	11.549	17.018	13.920	WITHIN GROUPS	20059.5131	813	24.6734		
	SD	4.673	4.442	5.182	TOTAL	21883.8223	815			
54	N	134	111	815	BETWEEN GROUPS	2033.7262	2	1016.8631	42.5809	0.0926
	M	11.624	17.278	14.533	WITHIN GROUPS	19391.1621	812	23.8807		
	SD	4.801	4.692	5.130	TOTAL	21424.8883	814			
55	N	135	114	818	BETWEEN GROUPS	2329.9385	2	1164.9693	57.5933	0.1216
	M	12.926	19.053	15.897	WITHIN GROUPS	16485.4356	815	20.2275		
	SD	4.948	4.269	4.799	TOTAL	18815.3741	817			
56	N	135	112	809	BETWEEN GROUPS	2377.7093	2	1188.8546	46.9616	0.1020
	M	13.059	19.286	15.995	WITHIN GROUPS	20404.2710	806	25.3155		
	SD	4.902	4.826	5.310	TOTAL	22781.9802	808			
57	N	166	164	1077	BETWEEN GROUPS	61342.4804	2	30671.2402	1375.9300	0.7186
	M	86.518	113.787	100.056	WITHIN GROUPS	23940.8344	1074	22.2913		
	SD	5.348	4.584	8.903	TOTAL	85283.3148	1076			



LLOYD 1-14: READING DEFICIENCY ANALYSIS OF VARIANCE RUNS

LLOYD 1-140: WHITE FEMALES - Low IQ

J	N	M	SD	1	2	3	TOTAL	SOURCE	SUM OF SQUARES	DF	MEAN SQUARE	F RATIO	OMEGA SQ
1	74	140.284	6.238	369	80	523	BETWEEN GROUPS	243.5882	2	121.7941	2.7263	0.0066	
		140.976	6.619	142.637	141.132	141.132	WITHIN GROUPS	23230.3085	520	44.6737			
				7.349	6.706	6.706	TOTAL	23473.8967	522				
2	71	4.563	1.451	354	77	502	BETWEEN GROUPS	26.2314	2	13.1157	5.7712	0.0187	
		4.339	1.476	4.339	3.779	4.285	WITHIN GROUPS	1134.0336	499	2.2726			
				1.402	1.691	1.522	TOTAL	1160.2649	501				
3	71	4.366	1.524	354	78	503	BETWEEN GROUPS	7.0172	2	3.5086	1.7801	0.0031	
		4.249	1.402	4.249	3.962	4.221	WITHIN GROUPS	985.4878	500	1.9710			
				1.402	1.294	1.406	TOTAL	992.5050	502				
4	74	2.581	1.760	369	80	523	BETWEEN GROUPS	7.7752	2	3.8876	1.0029	0.0000	
		2.485	2.075	2.485	2.175	2.451	WITHIN GROUPS	2015.7315	520	3.8764			
				2.075	1.613	1.969	TOTAL	2023.5067	522				
5	71	4.901	1.255	341	75	487	BETWEEN GROUPS	11.2253	2	5.6126	3.6700	0.0108	
		4.613	1.219	4.613	4.347	4.614	WITHIN GROUPS	740.1998	484	1.5293			
				1.219	1.300	1.243	TOTAL	751.4251	486				
6	70	3.757	0.842	350	77	497	BETWEEN GROUPS	4.6324	2	2.3162	2.9367	0.0077	
		3.666	0.873	3.666	3.429	3.642	WITHIN GROUPS	389.6171	494	0.7887			
				0.873	0.992	0.892	TOTAL	394.2495	496				
7	71	13.944	4.133	339	74	484	BETWEEN GROUPS	1037.0074	2	518.5037	34.0326	0.1201	
		17.389	3.965	17.389	19.122	17.149	WITHIN GROUPS	7328.2818	481	15.2355			
				3.965	3.347	4.162	TOTAL	8365.2893	483				
8	74	89.176	7.757	369	80	523	BETWEEN GROUPS	1156.8681	2	578.4341	7.5064	0.0246	
		89.092	8.492	89.092	84.975	88.474	WITHIN GROUPS	39543.5334	520	76.0453			
				8.492	10.440	8.830	TOTAL	40700.4015	522				
9	36	2.667	1.309	201	32	269	BETWEEN GROUPS	12.7379	2	6.3689	2.9497	0.0143	
		3.229	1.552	3.229	2.812	3.104	WITHIN GROUPS	574.3476	266	2.1592			
				1.552	1.030	1.480	TOTAL	587.0855	268				
10	38	2.579	1.368	221	37	296	BETWEEN GROUPS	2.9652	2	1.4826	0.9610	-0.0009	
		2.742	1.304	2.742	2.973	2.750	WITHIN GROUPS	504.5348	293	1.7220			
				1.304	1.301	1.312	TOTAL	507.5000	295				
11	46	2.848	1.349	256	48	350	BETWEEN GROUPS	2.5880	2	1.2940	0.7409	-0.0015	
		2.855	1.319	2.855	3.104	2.889	WITHIN GROUPS	606.0663	347	1.7466			
				1.319	1.309	1.321	TOTAL	608.6543	349				
12	55	2.509	1.136	278	51	384	BETWEEN GROUPS	0.4191	2	0.2096	0.1245	-0.0046	
		2.511	1.302	2.511	2.608	2.523	WITHIN GROUPS	641.3699	381	1.6834			
				1.302	1.429	1.294	TOTAL	641.7891	383				



LLOYD 1-14: READING DEFICIENCY ANALYSIS OF VARIANCE RUNS

LLOYD 1-140: WHITE FEMALES - Low IQ

J	N	M	SD	1	2	3	TOTAL	SOURCE	SUM OF SQUARES	DF	MEAN SQUARE	F RATIO	OMEGA SQ
13	N			44	232	38	314	BETWEEN GROUPS	1367.2117	2	683.6059	13.0384	0.0712
	M	30.455	34.496	38.632	34.430	34.430	34.430	WITHIN GROUPS	16305.7469	311	52.4301		
	SD	8.079	7.049	7.390	7.514	7.514	7.514	TOTAL	17672.9586	313			
14	N			74	369	80	523	BETWEEN GROUPS	17021.1863	2	8510.5931	17.0689	0.0579
	M	38.811	48.371	59.737	48.757	48.757	48.757	WITHIN GROUPS	259272.9744	520	498.6019		
	SD	44.649	16.860	10.756	23.007	23.007	23.007	TOTAL	276294.1606	522			
15	N			53	291	56	400	BETWEEN GROUPS	1.8304	2	0.9152	3.8003	0.0138
	M	2.547	2.656	2.804	2.662	2.662	2.662	WITHIN GROUPS	95.6071	397	0.2408		
	SD	0.503	0.490	0.483	0.494	0.494	0.494	TOTAL	97.4375	399			
16	N			74	369	80	523	BETWEEN GROUPS	10246.1215	2	5123.0608	82.6040	0.2378
	M	44.946	53.092	61.263	53.189	53.189	53.189	WITHIN GROUPS	32250.1385	520	62.0195		
	SD	7.009	7.421	10.310	9.023	9.023	9.023	TOTAL	42496.2600	522			
17	N			41	248	41	330	BETWEEN GROUPS	1210.9329	2	605.4664	3.2008	0.0132
	M	92.585	98.306	98.780	97.655	97.655	97.655	WITHIN GROUPS	61855.6853	327	189.1611		
	SD	11.956	14.233	12.352	13.845	13.845	13.845	TOTAL	63066.6182	329			
18	N			74	369	80	523	BETWEEN GROUPS	19036.6076	2	9518.3038	175.2528	0.3999
	M	38.176	49.984	60.425	49.910	49.910	49.910	WITHIN GROUPS	28242.1687	520	54.3119		
	SD	6.317	7.194	8.920	9.517	9.517	9.517	TOTAL	47278.7763	522			
19	N			72	364	80	516	BETWEEN GROUPS	2042.1461	2	1021.0731	21.6947	0.0743
	M	51.750	56.209	59.012	56.021	56.021	56.021	WITHIN GROUPS	24144.6194	513	47.0655		
	SD	6.746	6.900	6.781	7.131	7.131	7.131	TOTAL	26186.7655	515			
20	N			73	360	79	512	BETWEEN GROUPS	4305.8433	2	2152.9217	33.2939	0.1120
	M	50.384	56.906	60.886	56.590	56.590	56.590	WITHIN GROUPS	32914.0238	509	64.6641		
	SD	7.432	8.084	8.379	8.534	8.534	8.534	TOTAL	37219.8672	511			
21	N			67	336	68	471	BETWEEN GROUPS	1599.2805	2	799.6402	17.2250	0.0645
	M	23.657	26.509	30.471	26.675	26.675	26.675	WITHIN GROUPS	21726.0189	468	46.4231		
	SD	6.355	6.672	7.869	7.045	7.045	7.045	TOTAL	23325.2994	470			
22	N			67	336	68	471	BETWEEN GROUPS	1372.4265	2	686.2133	14.3375	0.0536
	M	23.866	26.271	30.118	26.484	26.484	26.484	WITHIN GROUPS	22399.2040	468	47.8615		
	SD	6.672	6.719	8.047	7.112	7.112	7.112	TOTAL	23771.6306	470			
23	N			58	297	59	414	BETWEEN GROUPS	509.6355	2	254.8177	3.9555	0.0141
	M	23.345	24.488	27.271	24.725	24.725	24.725	WITHIN GROUPS	26476.9732	411	64.4209		
	SD	8.027	7.942	8.444	8.083	8.083	8.083	TOTAL	26986.6087	413			
24	N			67	336	68	471	BETWEEN GROUPS	380.2079	2	190.1040	3.5200	0.0106
	M	24.119	25.342	27.397	25.465	25.465	25.465	WITHIN GROUPS	25274.9641	468	54.0063		
	SD	6.894	7.184	8.508	7.388	7.388	7.388	TOTAL	25655.1720	470			

LLOYD 1-14: READING DEFICIENCY ANALYSIS OF VARIANCE RUNS

LLOYD 1-14D: WHITE FEMALES - Low IQ

J	N	M	SD	1	2	3	TOTAL	SOURCE	SUM OF SQUARES	DF	MEAN SQUARE	F RATIO	OMEGA SQ
25	N	44					327	BETWEEN GROUPS	121.8551	2	60.9275	0.7913	-0.0013
	M	24.705	23.349	48	23.731	24.708	23.731	WITHIN GROUPS	24946.4630	324	76.9953		
	SD	9.011	8.441	10.087	8.769	10.087	8.769	TOTAL	25068.3180	326			
26	N	65					469	BETWEEN GROUPS	583.0318	2	291.5159	5.0610	0.0170
	M	28.585	30.375	68	30.469	32.735	30.469	WITHIN GROUPS	26841.7699	466	57.6004		
	SD	7.128	7.667	7.625	7.655	7.625	7.655	TOTAL	27424.8017	468			
27	N	9					72	BETWEEN GROUPS	263.5386	2	131.7693	1.1932	0.0053
	M	20.556	23.696	17	24.083	27.000	24.083	WITHIN GROUPS	7619.9614	69	110.4342		
	SD	9.501	10.304	11.511	10.537	11.511	10.537	TOTAL	7883.5000	71			
28	N	65					460	BETWEEN GROUPS	708.8101	2	354.4050	6.3396	0.0227
	M	34.677	36.170	65	36.383	39.169	36.383	WITHIN GROUPS	25547.8508	457	55.9034		
	SD	7.947	7.464	7.046	7.563	7.046	7.563	TOTAL	26256.6609	459			
29	N	63					444	BETWEEN GROUPS	315.0940	2	157.5470	2.9514	0.0087
	M	32.381	33.274	64	33.448	35.359	33.448	WITHIN GROUPS	23540.7145	441	53.3803		
	SD	7.581	7.456	6.183	7.338	6.183	7.338	TOTAL	23855.8086	443			
30	N	67					465	BETWEEN GROUPS	171.6036	2	85.8018	1.4920	0.0021
	M	32.896	33.577	65	33.688	35.077	33.688	WITHIN GROUPS	26568.1813	462	57.5069		
	SD	7.884	7.534	7.521	7.591	7.521	7.591	TOTAL	26739.7849	464			
31	N	67					470	BETWEEN GROUPS	1886.5111	2	943.2556	15.8246	0.0593
	M	24.284	27.649	67	27.755	31.761	27.755	WITHIN GROUPS	27836.3506	467	59.6067		
	SD	6.995	7.713	8.419	7.961	8.419	7.961	TOTAL	29722.8617	469			
32	N	62					448	BETWEEN GROUPS	1043.3419	2	521.6709	8.1782	0.0311
	M	24.758	27.323	64	27.420	30.484	27.420	WITHIN GROUPS	28385.7653	445	63.7882		
	SD	7.419	7.783	9.415	8.114	9.415	8.114	TOTAL	29429.1071	447			
33	N	58					419	BETWEEN GROUPS	473.4676	2	236.7338	4.0100	0.0142
	M	25.638	27.116	60	27.260	29.550	27.260	WITHIN GROUPS	24559.1768	416	59.0365		
	SD	7.407	7.533	8.642	7.739	8.642	7.739	TOTAL	25032.6444	418			
34	N	50					377	BETWEEN GROUPS	579.8353	2	289.9176	4.7243	0.0194
	M	23.260	24.480	58	24.788	27.534	24.788	WITHIN GROUPS	22951.1886	374	61.3668		
	SD	7.894	7.608	8.770	7.911	8.770	7.911	TOTAL	23531.0239	376			
35	N	39					300	BETWEEN GROUPS	328.2921	2	164.1461	3.0347	0.0134
	M	24.205	25.401	44	25.620	27.955	25.620	WITHIN GROUPS	16064.3879	297	54.0888		
	SD	6.876	7.226	8.339	7.404	8.339	7.404	TOTAL	16392.6800	299			
36	N	31					262	BETWEEN GROUPS	288.0892	2	144.0446	3.2631	0.0170
	M	27.484	29.000	40	29.183	31.375	29.183	WITHIN GROUPS	11433.1169	259	44.1433		
	SD	7.663	6.355	7.156	6.701	7.156	6.701	TOTAL	11721.2061	261			



LLOYD 1-14: READING DEFICIENCY ANALYSIS OF VARIANCE RUNS

LLOYD 1-14D: WHITE FEMALES - Low IQ

J		1	2	3	TOTAL	SOURCE	SUM OF SQUARES	DF	MEAN SQUARE	F RATIO	OMEGA SQ
37	N	68	334	69	471	BETWEEN GROUPS	4015.4902	2	2007.7451	20.1180	0.0751
	M	86.250	92.817	96.884	92.465	WITHIN GROUPS	46705.6817	468	99.7985		
	SD	8.207	10.105	10.974	10.388	TOTAL	50721.1720	470			
38	N	41	236	45	322	BETWEEN GROUPS	1147.5845	2	573.7923	5.1524	0.0251
	M	92.122	94.691	99.178	94.991	WITHIN GROUPS	35525.3875	319	111.3649		
	SD	9.920	10.380	11.936	10.689	TOTAL	36672.9720	321			
39	N	22	154	34	210	BETWEEN GROUPS	1.3087	2	0.6543	0.4086	-0.0057
	M	3.591	3.331	3.382	3.367	WITHIN GROUPS	331.4580	207	1.6012		
	SD	1.297	1.268	1.231	1.262	TOTAL	332.7667	209			
40	N	63	325	65	453	BETWEEN GROUPS	7287.0306	2	3643.5153	23.7281	0.0912
	M	49.857	56.517	64.862	56.788	WITHIN GROUPS	69098.6251	450	153.5525		
	SD	12.319	11.991	14.310	13.000	TOTAL	76385.6556	452			
41	N	65	327	67	459	BETWEEN GROUPS	9669.5109	2	4834.7555	28.2651	0.1062
	M	46.154	56.468	63.015	55.963	WITHIN GROUPS	77998.8595	456	171.0501		
	SD	10.322	12.908	15.984	13.835	TOTAL	87668.3704	458			
42	N	61	318	64	443	BETWEEN GROUPS	12757.6411	2	6378.8205	19.9758	0.0789
	M	39.328	49.997	59.531	49.905	WITHIN GROUPS	140504.3770	440	319.3281		
	SD	14.926	18.000	19.690	18.621	TOTAL	153262.0181	442			
43	N	64	317	65	446	BETWEEN GROUPS	535.5750	2	267.7875	2.9648	0.0087
	M	56.766	58.644	60.831	58.693	WITHIN GROUPS	40013.3421	443	90.3236		
	SD	9.575	9.513	9.390	9.546	TOTAL	40548.9170	445			
44	N	59	308	63	430	BETWEEN GROUPS	4325.7442	2	2162.8721	20.6135	0.0836
	M	50.610	56.636	62.524	56.672	WITHIN GROUPS	44803.0209	427	104.9251		
	SD	10.450	9.762	12.191	10.701	TOTAL	49128.7651	429			
45	N	41	228	46	315	BETWEEN GROUPS	1453.7999	2	726.9000	1.7995	0.0051
	M	76.317	78.022	83.630	78.619	WITHIN GROUPS	126028.4858	312	403.9375		
	SD	21.777	19.317	22.287	20.149	TOTAL	127482.2857	314			
46	N	41	228	46	315	BETWEEN GROUPS	4513.6879	2	2256.8440	6.7892	0.0355
	M	78.122	81.298	91.109	82.317	WITHIN GROUPS	103714.5661	312	332.4185		
	SD	20.300	17.747	18.700	18.565	TOTAL	108228.2540	314			
47	N	41	228	46	315	BETWEEN GROUPS	2909.2011	2	1454.6006	4.7940	0.0235
	M	77.146	79.535	87.478	80.384	WITHIN GROUPS	94667.3195	312	303.4209		
	SD	19.863	16.626	18.939	17.628	TOTAL	97576.5206	314			
48	N	49	262	55	366	BETWEEN GROUPS	134.3415	2	67.1707	4.1017	0.0167
	M	7.796	8.989	10.073	8.992	WITHIN GROUPS	5944.6339	363	16.3764		
	SD	3.518	4.123	4.113	4.081	TOTAL	6078.9754	365			

LLOYD I-14: READING DEFICIENCY ANALYSIS OF VARIANCE RUNS

LLOYD I-140: WHITE FEMALES - Low IQ

J	N	M	SD	1	2	3	TOTAL	SOURCE	SUM OF SQUARES	DF	MEAN SQUARE	F RATIO	OMEGA SQ
49	N			46	262	54	362	BETWEEN GROUPS	190.1757	2	95.0879	4.6477	0.0198
	M	8.109		8.109	9.378	10.852	9.436	WITHIN GROUPS	7344.8629	359	20.4592		
	SD	4.228		4.228	4.470	5.000	4.569	TOTAL	7535.0387	361			
50	N			47	257	54	358	BETWEEN GROUPS	125.7828	2	62.8914	4.3774	0.0185
	M	10.106		10.106	11.498	12.315	11.439	WITHIN GROUPS	5100.3653	355	14.3672		
	SD	3.755		3.755	3.710	4.184	3.826	TOTAL	5226.1480	357			
51	N			47	258	53	358	BETWEEN GROUPS	28.6117	2	14.3058	0.7254	-0.0015
	M	8.532		8.532	9.322	9.491	9.243	WITHIN GROUPS	7001.2459	355	19.7218		
	SD	3.939		3.939	4.520	4.466	4.438	TOTAL	7029.8575	357			
52	N			46	253	55	354	BETWEEN GROUPS	149.4077	2	74.7039	4.4950	0.0194
	M	9.283		9.283	10.289	11.673	10.373	WITHIN GROUPS	5833.3719	351	16.6193		
	SD	3.588		3.588	3.884	5.186	4.117	TOTAL	5982.7797	353			
53	N			48	259	52	359	BETWEEN GROUPS	260.6312	2	130.3156	6.5817	0.0302
	M	7.792		7.792	9.008	10.942	9.125	WITHIN GROUPS	7048.7281	356	19.7998		
	SD	4.510		4.510	4.399	4.646	4.519	TOTAL	7309.3593	358			
54	N			48	252	54	354	BETWEEN GROUPS	381.7863	2	190.8931	10.1487	0.0491
	M	7.500		7.500	9.425	11.370	9.460	WITHIN GROUPS	6602.1601	351	18.8096		
	SD	4.177		4.177	4.244	4.877	4.448	TOTAL	6983.9463	353			
55	N			49	251	54	354	BETWEEN GROUPS	204.9267	2	102.4634	5.4464	0.0245
	M	9.224		9.224	10.199	11.944	10.331	WITHIN GROUPS	6603.4038	351	18.8131		
	SD	4.896		4.896	4.270	4.109	4.392	TOTAL	6808.3305	353			
56	N			46	256	52	354	BETWEEN GROUPS	136.1377	2	68.0689	3.5932	0.0144
	M	9.565		9.565	10.277	11.788	10.407	WITHIN GROUPS	6649.2860	351	18.9438		
	SD	4.400		4.400	4.142	5.244	4.384	TOTAL	6785.4237	353			
57	N			74	369	80	523	BETWEEN GROUPS	24721.7615	2	12360.8808	665.0022	0.7175
	M	87.730		87.730	99.593	113.000	99.966	WITHIN GROUPS	9665.6190	520	18.5877		
	SD	3.586		3.586	4.394	4.531	8.116	TOTAL	34387.3805	522			

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LLJYD 1-14: READING EFFICIENCY ANALYSIS OF VARIANCE RUNS
LLJYD 1-140: NEGKU MALES - High SES
NOJ OF VARIABLES = 57 CLASSIFICATION VAR = # 57 WITH ELIMINATION CODE FOR CLAS. VAR = 999.000
CLAS CATEGORY UPPER LIMITS = 91.000, 106.000, 990.000, 0.00 , 0.00 , 0.00 , 0.00 , 0.00 , 0.00 , 0.00 , 0.00 , 0.00 , 0.00 ,
RESTRICTION VAR = # 0 WITH RANGE OF 1.000 TO 4.000
VALUES TO BE EXCLUDED FOR VARS 1 TO 57 ARE 0.00 , 0.00 , 0.00 , 0.00 , 0.00 , 0.00 , -9.000, 0.00 , 0.00 , 0.00 ,
0.00 , 0.00 , 0.00 , 0.00 , 0.00 , 0.00 , 0.00 , 0.00 , 0.00 , 1.000, 0.00 , 0.00 ,
0.00 , 0.00 , 0.00 , 0.00 , 0.00 , 0.00 , 0.00 , 0.00 , 0.00 , 0.00 ,
0.00 , 0.00 , 0.00 , 0.00 , 0.00 , 0.00 , 0.00 , 0.00 , 0.00 , 0.00 ,
0.00 , 0.00 , 0.00 , 0.00 , 0.00 , 0.00 , 0.00 , 0.00 , 999.000,

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FORMAT OF DATA IS (57F6.0)
MAX # OF LOS TO BE INCLUDED THIS PROBLEM = 296 DATA TO BE READ FROM TAPE WITHOUT REWIND

- GROUP 1 = UNDERACHIEVERS
- GROUP 2 = AVERAGE ACHIEVERS
- GROUP 3 = OVERACHIEVERS

LLOYD 1-14: READING DEFICIENCY ANALYSIS OF VARIANCE RUNS

LLOYD 1-14d: NEGRO MALES - High SES

J	N	M	SD	1	2	3	TOTAL	SOURCE	SUM OF SQUARES	DF	MEAN SQUARE	F RATIO	MEAN SD
1	N	12					90	BETWEEN GROUPS	122.7778	2	61.3889	0.7379	-0.0059
	M	141.353	143.567	18	145.444	143.644		WITHIN GROUPS	7237.8444	87	83.1936		
	SD	6.972	9.792	7.846	9.094		TOTAL	7360.6222	89				
2	N	11					86	BETWEEN GROUPS	2.9185	2	1.4593	0.7828	-0.0051
	M	5.273	4.714	10	4.812	4.802		WITHIN GROUPS	154.7210	83	1.8641		
	SD	1.009	1.403	1.424	1.362		TOTAL	157.6395	85				
3	N	12					87	BETWEEN GROUPS	0.0711	2	0.3355	0.1637	-0.0190
	M	5.000	4.741	17	4.765	4.782		WITHIN GROUPS	172.1795	84	2.0498		
	SD	1.044	1.505	1.393	1.418		TOTAL	172.8506	86				
4	N	12					90	BETWEEN GROUPS	11.8278	2	5.9139	0.7619	-0.0053
	M	4.333	4.617	18	2.444	4.744		WITHIN GROUPS	675.2944	87	7.7620		
	SD	2.640	2.762	2.955	2.779		TOTAL	687.1222	89				
5	N	12					88	BETWEEN GROUPS	1.0675	2	0.8338	0.8774	-0.0028
	M	5.000	4.831	17	5.176	4.920		WITHIN GROUPS	60.7757	85	0.71503		
	SD	0.426	0.950	1.286	0.973		TOTAL	62.4432	87				
6	N	12					90	BETWEEN GROUPS	0.5889	2	0.2944	0.7760	-0.0050
	M	3.917	3.683	18	3.778	3.733		WITHIN GROUPS	33.0111	87	0.3794		
	SD	0.289	0.676	0.548	0.614		TOTAL	33.6000	89				
7	N	12					86	BETWEEN GROUPS	382.8325	2	191.4162	6.0195	0.1403
	M	15.417	17.368	17	22.059	18.023		WITHIN GROUPS	1981.1210	83	23.8689		
	SD	4.502	4.542	6.139	5.274		TOTAL	2363.9535	85				
8	N	12					90	BETWEEN GROUPS	25.1389	2	12.5694	0.0513	-0.0215
	M	90.083	88.500	18	88.833	88.778		WITHIN GROUPS	21336.4167	87	245.2462		
	SD	9.462	15.287	19.651	15.492		TOTAL	21361.5556	89				
9	N	8					54	BETWEEN GROUPS	7.8591	2	3.9296	1.5284	0.0192
	M	3.250	2.727	13	3.615	3.019		WITHIN GROUPS	131.1224	51	2.5710		
	SD	2.315	1.420	1.557	1.619		TOTAL	138.9815	53				
10	N	10					60	BETWEEN GROUPS	9.2542	2	4.6271	2.8545	0.0582
	M	2.600	2.405	13	3.385	2.650		WITHIN GROUPS	92.3958	57	1.6210		
	SD	1.350	1.142	1.557	1.313		TOTAL	101.6500	59				
11	N	11					72	BETWEEN GROUPS	0.2356	2	0.1178	0.0724	-0.0264
	M	2.818	2.804	15	2.607	2.778		WITHIN GROUPS	112.2088	69	1.6262		
	SD	1.328	1.240	1.345	1.258		TOTAL	112.4444	71				
12	N	11					77	BETWEEN GROUPS	8.1334	2	4.0667	1.6748	0.0172
	M	2.545	2.140	16	2.937	2.364		WITHIN GROUPS	179.6848	74	2.4282		
	SD	1.968	1.414	1.692	1.572		TOTAL	187.8182	76				

LLLOYD 1-14: READING DEFICIENCY ANALYSIS OF VARIANCE RUNS

LLLOYD 1-14: NEGRO MALES - High SES

J	N	M	SU	1	2	3	TOTAL	SOURCE	SUM OF SQUARES	DF	MEAN SQUARE	F RATIO	OMEGA SQ
13	M	33	36.000	9	51	BETWEEN GROUPS	118.6084	2	59.3042	2	0.8004	-0.0079	
	M	31.971	36.000	9	32.882	WITHIN GROUPS	3556.6857	48	74.0976	48			
	SU	8.541	5.701	8.574	8.574	TOTAL	3675.2941	50		50			
14	M	50	60.176	84	43.298	BETWEEN GROUPS	6898.4656	2	3449.2328	2	28.8949	0.3991	
	M	40.571	60.176	43.298	43.298	WITHIN GROUPS	9669.0940	81	119.3715	81			
	SU	10.217	14.081	14.128	14.128	TOTAL	10567.5595	83		83			
15	M	52	15	75	2.747	BETWEEN GROUPS	0.0559	2	0.0279	2	0.1424	-0.0234	
	M	2.731	2.800	2.747	2.747	WITHIN GROUPS	14.1308	72	0.1963	72			
	SU	0.448	0.414	0.438	0.438	TOTAL	14.1867	74		74			
16	M	56	17	54	51.440	BETWEEN GROUPS	3517.1946	2	1758.5973	2	21.9503	0.3328	
	M	39.545	62.059	51.440	51.440	WITHIN GROUPS	6489.5077	81	80.1174	81			
	SU	8.774	10.311	10.980	10.980	TOTAL	10006.7024	83		83			
17	M	38	12	55	95.764	BETWEEN GROUPS	431.2852	2	215.6426	2	1.0125	0.0005	
	M	37.368	90.500	95.764	95.764	WITHIN GROUPS	11074.6421	52	212.9739	52			
	SU	14.255	13.290	14.597	14.597	TOTAL	11505.9273	54		54			
18	M	60	18	90	46.122	BETWEEN GROUPS	6260.9778	2	3130.4889	2	37.0010	0.4445	
	M	44.567	60.011	46.122	46.122	WITHIN GROUPS	7360.6778	87	84.6055	87			
	SU	9.269	10.199	12.371	12.371	TOTAL	13621.6556	89		89			
19	M	59	18	89	53.798	BETWEEN GROUPS	814.1891	2	407.0946	2	8.0295	0.1364	
	M	53.203	59.056	53.798	53.798	WITHIN GROUPS	4360.1704	86	50.6997	86			
	SU	7.056	6.585	7.668	7.668	TOTAL	5174.3596	88		88			
20	M	59	18	89	51.820	BETWEEN GROUPS	1417.9103	2	708.9552	2	10.4236	0.1748	
	M	50.373	59.500	51.820	51.820	WITHIN GROUPS	5849.2133	86	68.0141	86			
	SU	8.047	8.104	9.087	9.087	TOTAL	7267.1236	88		88			
21	M	54	17	82	26.183	BETWEEN GROUPS	368.4000	2	184.2000	2	3.7218	0.0623	
	M	25.426	30.176	26.183	26.183	WITHIN GROUPS	3909.8501	79	49.4918	79			
	SU	7.275	6.885	7.268	7.268	TOTAL	4278.2561	81		81			
22	M	54	17	82	26.415	BETWEEN GROUPS	341.9167	2	170.9583	2	3.2435	0.0519	
	M	25.778	30.176	26.415	26.415	WITHIN GROUPS	4163.9857	79	52.7087	79			
	SU	7.523	7.064	7.458	7.458	TOTAL	4505.9024	81		81			
23	M	52	16	78	26.205	BETWEEN GROUPS	205.0872	2	102.5436	2	1.4706	0.0119	
	M	25.481	29.375	26.205	26.205	WITHIN GROUPS	5229.0308	75	69.7284	75			
	SU	8.676	8.740	8.401	8.401	TOTAL	5434.7179	77		77			
24	M	54	17	82	25.293	BETWEEN GROUPS	289.4977	2	144.7488	2	2.3688	0.0323	
	M	24.852	28.588	25.293	25.293	WITHIN GROUPS	4627.4779	79	61.1073	79			
	SU	7.542	9.131	7.728	7.728	TOTAL	5116.9756	81		81			

LLJYD 1-14: READING DEFICIENCY ANALYSIS OF VARIANCE RUNS

LLJYD 1-148: NEGRO MALES - High SES

J	N	M	SU	1	2	3	TOTAL	SOURCE	SUM OF SQUARES	DF	MEAN SQUARE	F RATIO	OMEGA S ²
25	N	M	SU	1	9	6	16	BETWEEN GROUPS	18.2153	2	8.1076	0.1289	-0.1222
				10.000	30.889	32.833	31.563	WITHIN GROUPS	817.7222	13	62.9017		
				0.0	6.092	10.206	7.456	TOTAL	833.9375	15			
26	N	M	SU	11	53	17	81	BETWEEN GROUPS	57.2818	2	23.6409	0.8984	-0.0025
				31.091	32.415	33.941	32.556	WITHIN GROUPS	2.86.7182	78	31.8810		
				4.369	5.885	5.562	5.639	TOTAL	2544.0000	80			
27	N	M	SU	1	13	4	18	BETWEEN GROUPS	131.2500	2	65.6250	2.1742	0.1154
				20.000	27.000	31.750	27.667	WITHIN GROUPS	452.7500	15	30.1833		
				0.0	5.888	3.500	5.861	TOTAL	584.0000	17			
28	N	M	SU	11	54	17	82	BETWEEN GROUPS	610.1801	2	309.0901	4.4187	0.0770
				25.091	30.222	34.647	30.451	WITHIN GROUPS	5526.1248	79	69.9509		
				7.635	7.871	10.185	8.710	TOTAL	6144.3049	81			
29	N	M	SU	11	54	17	82	BETWEEN GROUPS	107.0986	2	53.5493	0.7240	-0.0068
				29.636	33.019	32.882	32.537	WITHIN GROUPS	5843.2916	79	73.9657		
				9.811	7.849	10.049	8.571	TOTAL	5950.3902	81			
30	N	M	SU	11	54	17	82	BETWEEN GROUPS	374.1508	2	187.0754	2.7334	0.0406
				28.545	32.667	36.000	32.805	WITHIN GROUPS	3406.7273	79	68.4396		
				7.594	7.979	9.539	8.448	TOTAL	5780.8780	81			
31	N	M	SU	11	55	17	83	BETWEEN GROUPS	423.7945	2	211.8973	3.2283	0.0510
				26.273	27.618	32.882	28.518	WITHIN GROUPS	5250.9283	80	65.6366		
				6.544	7.899	9.532	8.319	TOTAL	5674.7229	82			
32	N	M	SU	11	50	16	77	BETWEEN GROUPS	601.5352	2	300.7676	3.9962	0.0722
				23.727	27.360	32.875	27.987	WITHIN GROUPS	5569.4518	74	75.2629		
				8.878	7.787	10.984	9.011	TOTAL	6170.9870	76			
33	N	M	SU	8	40	15	69	BETWEEN GROUPS	253.4207	2	126.7103	1.6120	0.0174
				25.125	26.565	30.867	27.333	WITHIN GROUPS	5187.9127	66	78.6047		
				7.736	8.953	9.109	8.945	TOTAL	5441.3333	68			
34	N	M	SU	6	42	13	61	BETWEEN GROUPS	301.5444	2	150.7722	4.0279	0.0903
				22.833	27.619	31.231	27.918	WITHIN GROUPS	2171.0458	58	37.4318		
				3.125	5.596	8.358	6.419	TOTAL	2472.5902	60			
35	N	M	SU	6	39	13	58	BETWEEN GROUPS	122.5477	2	61.2739	1.3027	0.0103
				25.167	28.026	30.462	28.276	WITHIN GROUPS	2507.0385	55	47.0371		
				4.916	7.372	5.782	6.895	TOTAL	2709.5862	57			
36	N	M	SU	6	34	12	52	BETWEEN GROUPS	172.4042	2	86.2321	2.0367	0.0383
				24.833	27.118	30.750	27.692	WITHIN GROUPS	2074.5147	49	42.3390		
				3.710	6.879	6.355	6.638	TOTAL	2247.0769	51			

LLLOYD I-14: READING DEFICIENCY ANALYSIS OF VARIANCE RUNS

LLLOYD I-14B: NEGRO MALES - High SES

J	N	M	SD	1	2	3	TOTAL	SOURCE	SUM OF SQUARES	DF	MEAN SQUARE	F RATIO	OMEGA SQ
37	N			12	50	17	79	BETWEEN GROUPS	439.9605	2	219.9802	1.4340	0.0109
	M	80.063	81.200	80.647	82.203	82.203	82.203	WITHIN GROUPS	11658.7990	76	153.4053		
	SD	10.816	12.793	12.124	12.454	12.454	12.454	TOTAL	12098.7595	78			
38	N	6	42	11	59		59	BETWEEN GROUPS	311.6163	2	155.8081	1.1674	0.0056
	M	83.000	87.810	91.818	88.068	88.068	88.068	WITHIN GROUPS	7474.1126	56	133.4663		
	SD	11.419	10.671	14.675	11.586	11.586	11.586	TOTAL	7785.7288	58			
39	N	4	29	10	43		43	BETWEEN GROUPS	8.9553	2	4.4776	2.3896	0.0607
	M	4.000	2.655	3.400	2.953	2.953	2.953	WITHIN GROUPS	74.9517	40	1.8738		
	SD	1.414	1.370	1.350	1.413	1.413	1.413	TOTAL	83.9070	42			
40	N	7	48	13	68		68	BETWEEN GROUPS	481.3898	2	240.6949	2.2199	0.0346
	M	42.286	44.725	50.923	45.662	45.662	45.662	WITHIN GROUPS	7047.8308	65	108.4282		
	SD	11.280	9.985	11.543	10.601	10.601	10.601	TOTAL	7529.2206	67			
41	N	10	46	14	70		70	BETWEEN GROUPS	2251.3814	2	1125.6907	7.6982	0.1606
	M	44.400	45.565	59.500	48.186	48.186	48.186	WITHIN GROUPS	9797.2043	67	146.2269		
	SD	9.477	10.151	18.296	13.214	13.214	13.214	TOTAL	12048.5857	69			
42	N	8	36	12	56		56	BETWEEN GROUPS	549.8194	2	274.9097	1.2106	0.0075
	M	38.250	40.111	47.250	41.375	41.375	41.375	WITHIN GROUPS	12035.3056	53	227.0812		
	SD	13.551	14.880	16.515	15.127	15.127	15.127	TOTAL	12585.1250	55			
43	N	10	44	11	65		65	BETWEEN GROUPS	156.5843	2	78.2921	0.8625	-0.0042
	M	48.900	51.886	54.364	51.846	51.846	51.846	WITHIN GROUPS	5627.8773	62	90.7722		
	SD	8.925	8.079	14.507	9.507	9.507	9.507	TOTAL	5784.4615	64			
44	N	6	46	12	64		64	BETWEEN GROUPS	411.8702	2	205.9351	2.6367	0.0487
	M	43.833	45.656	51.833	46.672	46.672	46.672	WITHIN GROUPS	4764.2391	61	78.1023		
	SD	9.786	8.077	11.077	9.064	9.064	9.064	TOTAL	5176.1094	63			
45	N	1	7	5	13		13	BETWEEN GROUPS	585.0198	2	292.5099	0.5933	-0.0667
	M	33.000	53.857	59.400	54.385	54.385	54.385	WITHIN GROUPS	4930.0571	10	493.0057		
	SD	0.0	23.169	20.671	21.438	21.438	21.438	TOTAL	5515.0769	12			
46	N	1	7	5	13		13	BETWEEN GROUPS	271.9121	2	135.9560	0.3965	-0.1023
	M	53.000	56.143	65.000	59.308	59.308	59.308	WITHIN GROUPS	3428.8571	10	342.8857		
	SD	0.0	18.225	18.947	17.561	17.561	17.561	TOTAL	3700.7692	12			
47	N	1	7	5	13		13	BETWEEN GROUPS	331.4637	2	165.7319	0.4719	-0.0884
	M	43.000	55.286	61.800	56.846	56.846	56.846	WITHIN GROUPS	3512.2286	10	351.2229		
	SD	0.0	19.423	17.669	17.897	17.897	17.897	TOTAL	3843.6923	12			
48	N	7	45	14	66		66	BETWEEN GROUPS	15.5880	2	7.7940	0.4655	-0.0165
	M	6.143	7.556	7.929	7.485	7.485	7.485	WITHIN GROUPS	1054.8968	63	16.7444		
	SD	4.488	3.805	4.779	4.058	4.058	4.058	TOTAL	1070.4848	65			



LLOYD 1-14: READING DEFICIENCY ANALYSIS OF VARIANCE RUNS

LLOYD 1-14: NEGRO MALES - High SES

J	N	M	SU	1	2	3	TOTAL	SOURCE	SUM OF SQUARES	DF	MEAN SQUARE	F RATIO	OMEGA S _d
49	7	15	68	3.571	7.891	7.933	68	BETWEEN GROUPS	117.7635	2	58.8818	2.9507	0.0543
	7	15	68	2.820	4.547	4.773	7.456	WITHIN GROUPS	1297.1041	65	19.9554		
							4.595	TOTAL	1414.8676	67			
50	7	15	68	6.857	7.674	9.600	68	BETWEEN GROUPS	52.4195	2	26.2097	1.7409	0.0213
	7	15	68	2.734	3.748	4.641	8.015	WITHIN GROUPS	978.5658	65	15.0549		
							3.923	TOTAL	1030.9853	67			
51	7	15	67	5.143	6.933	5.933	67	BETWEEN GROUPS	26.1259	2	13.0630	1.2106	0.0062
	7	15	67	3.436	3.394	2.840	6.522	WITHIN GROUPS	690.5905	64	10.7905		
							3.295	TOTAL	716.7164	66			
52	7	14	66	4.143	7.467	9.286	66	BETWEEN GROUPS	123.5857	2	61.7929	7.3050	0.1604
	7	14	66	1.952	2.876	3.872	7.500	WITHIN GROUPS	532.9143	63	8.4590		
							3.178	TOTAL	656.5000	65			
53	7	14	66	2.143	6.711	8.857	66	BETWEEN GROUPS	210.5023	2	105.2512	0.6855	0.1470
	7	14	66	1.464	4.065	4.400	6.682	WITHIN GROUPS	991.8159	63	15.7431		
							4.301	TOTAL	1202.3182	65			
54	7	13	65	3.286	4.911	5.769	65	BETWEEN GROUPS	28.0654	2	14.0327	1.1735	0.0053
	7	13	65	2.498	3.390	4.065	4.908	WITHIN GROUPS	741.3807	62	11.9578		
							3.467	TOTAL	769.4462	64			
55	7	15	65	3.857	7.674	8.667	65	BETWEEN GROUPS	114.6138	2	57.3069	4.4212	0.0952
	7	15	65	1.464	3.235	5.010	7.492	WITHIN GROUPS	803.6323	62	12.9618		
							3.788	TOTAL	918.2462	64			
56	7	14	64	6.714	6.256	6.429	64	BETWEEN GROUPS	1.3943	2	0.6972	0.0519	0.0005
	7	14	64	4.271	3.632	3.458	6.344	WITHIN GROUPS	819.0432	61	13.4269		
							3.609	TOTAL	820.4375	63			
57	12	18	90	66.167	99.367	115.333	90	BETWEEN GROUPS	6494.8000	2	3247.4000	113.3905	0.7141
	12	18	90	7.120	4.067	7.507	100.800	WITHIN GROUPS	2491.6000	87	28.6391		
							10.048	TOTAL	8986.4000	89			

LLUYD 1-14: READING DEFICIENCY ANALYSIS OF VARIANCE RUNS

LLUYD 1-14C: NEGRO MALES - Low SES

J	M	1	2	3	TOTAL	SOURCE	SUM OF SQUARES	DF	MEAN SQUARE	F RATIO	OMEGA S ²
1	M	13	95	17	129	BETWEEN GROUPS	655.0160	2	327.5080	2.3169	0.0200
	M	144.077	147.040	152.824	147.504	WITHIN GROUPS	17811.2320	120	141.3590		
	SU	9.070	11.672	14.341	12.011	TOTAL	18466.2481	128			
2	M	12	95	16	123	BETWEEN GROUPS	0.3059	2	0.1529	0.2566	-0.0126
	M	5.833	5.655	5.625	5.699	WITHIN GROUPS	77.5640	120	0.6464		
	SU	0.577	0.826	0.806	0.799	TOTAL	77.8699	122			
3	M	13	92	16	121	BETWEEN GROUPS	0.3130	2	0.1565	0.1611	-0.0141
	M	5.077	5.239	5.250	5.223	WITHIN GROUPS	114.0622	118	0.9717		
	SU	1.038	0.976	1.000	0.979	TOTAL	114.9752	120			
4	M	13	79	17	129	BETWEEN GROUPS	5.7097	2	2.8549	0.3835	-0.0096
	M	4.154	4.798	4.471	4.690	WITHIN GROUPS	957.8872	120	7.9435		
	SU	2.754	2.729	2.718	2.715	TOTAL	943.5969	128			
5	M	12	95	17	124	BETWEEN GROUPS	0.4975	2	0.2488	0.6977	-0.0049
	M	6.417	6.632	6.588	6.605	WITHIN GROUPS	93.1390	121	0.7697		
	SU	0.515	0.566	0.795	0.596	TOTAL	43.6371	123			
6	M	13	99	17	129	BETWEEN GROUPS	0.0	0	0.0	0.0	0.0
	M	5.000	5.000	5.000	5.000	WITHIN GROUPS	0.0	0	0.0		
	SU	0.0	0.0	0.0	0.0	TOTAL	0.0	0			
7	M	13	97	17	127	BETWEEN GROUPS	149.4304	2	74.7182	3.3228	0.0553
	M	15.365	17.113	19.706	17.283	WITHIN GROUPS	2706.3589	124	22.4868		
	SU	4.312	4.668	5.440	4.829	TOTAL	2937.7953	126			
8	M	13	99	17	129	BETWEEN GROUPS	97.8039	2	48.9020	0.2019	-0.0125
	M	85.462	63.515	61.824	83.488	WITHIN GROUPS	30522.4280	120	242.2415		
	SU	15.586	15.380	16.633	15.467	TOTAL	30526.2326	123			
9	M	10	81	13	104	BETWEEN GROUPS	0.0757	2	0.0378	0.0175	-0.0193
	M	2.600	2.651	2.652	2.683	WITHIN GROUPS	218.4532	101	2.1629		
	SU	1.350	1.530	1.109	1.457	TOTAL	218.5288	103			
10	M	11	81	12	104	BETWEEN GROUPS	4.1249	2	2.0625	0.7572	-0.0047
	M	2.162	2.765	2.417	2.663	WITHIN GROUPS	275.0982	101	2.7237		
	SU	1.168	1.750	1.155	1.646	TOTAL	279.2212	103			
11	M	11	85	13	109	BETWEEN GROUPS	0.2741	2	0.1370	0.0734	-0.0173
	M	2.636	2.612	2.402	2.590	WITHIN GROUPS	177.9645	100	1.7876		
	SU	1.120	1.407	1.200	1.355	TOTAL	178.2385	105			
12	M	10	90	13	113	BETWEEN GROUPS	0.3520	2	0.1775	0.0717	-0.0167
	M	2.800	2.644	2.709	2.673	WITHIN GROUPS	272.5299	110	2.4775		
	SU	1.989	1.531	1.550	1.561	TOTAL	272.8819	112			



LLJYU 1-14: READING DEFICIENCY ANALYSIS OF VARIANCE RUNS

LLJYU 1-14C: NEGRO MALES - Low SES

J	N	M	SD	1	2	3	TOTAL	SOURCE	SUM OF SQUARES	DF	MEAN SQUARE	F RATIO	OMEGA SQ
13	N	M	SD	25.607 6.245	31.419 7.973	33.583 8.918	83 31.108 8.138	BETWEEN GROUPS WITHIN GROUPS TOTAL	346.0107 5684.0134 5430.0241	2 80 82	173.0053 63.5502	2.7223	0.0398
14	N	M	SD	11 26.727 8.039	79 38.759 10.260	15 50.800 11.688	105 39.429 11.604	BETWEEN GROUPS WITHIN GROUPS TOTAL	3234.7021 10769.0122 14003.7143	2 102 104	1617.3510 105.5786	15.3189	0.2143
15	N	M	SD	12 2.333 0.492	89 2.449 0.500	15 2.467 0.516	116 2.440 0.498	BETWEEN GROUPS WITHIN GROUPS TOTAL	0.1551 28.4225 28.5776	2 113 115	0.0776 0.2515	0.3083	-0.0121
16	N	M	SD	11 40.455 7.202	79 47.671 7.529	15 59.800 12.278	105 48.648 9.673	BETWEEN GROUPS WITHIN GROUPS TOTAL	2674.3916 7050.5703 9729.9619	2 102 104	1339.6958 69.1232	19.3813	0.2593
17	N	M	SD	8 84.625 10.555	64 94.453 15.506	11 94.909 15.751	83 93.566 15.269	BETWEEN GROUPS WITHIN GROUPS TOTAL	709.7421 18408.6435 15118.3855	2 80 82	354.8710 230.1080	1.5422	0.0129
18	N	M	SD	13 32.077 7.274	99 42.455 8.154	17 55.471 10.548	129 43.124 10.137	BETWEEN GROUPS WITHIN GROUPS TOTAL	4222.3117 8931.7038 13154.0155	2 126 128	2111.1558 70.8865	29.7822	0.3085
19	N	M	SD	13 47.692 6.969	99 50.758 7.171	17 55.824 9.221	129 51.116 7.811	BETWEEN GROUPS WITHIN GROUPS TOTAL	541.8342 7267.4216 7809.2558	2 126 128	270.9171 57.6779	4.6971	0.0542
20	N	M	SD	13 45.308 7.931	97 49.351 8.435	17 54.353 8.558	127 49.606 8.631	BETWEEN GROUPS WITHIN GROUPS TOTAL	629.5809 8756.7341 9386.3150	2 124 126	314.7905 70.6188	4.4576	0.0516
21	N	M	SD	12 21.583 4.122	96 23.573 6.082	15 23.200 7.272	123 23.333 6.536	BETWEEN GROUPS WITHIN GROUPS TOTAL	42.5271 5168.8063 5211.3333	2 120 122	21.2635 43.0734	0.4937	-0.0083
22	N	M	SD	12 21.500 4.074	96 23.438 6.680	15 23.600 7.337	123 23.268 6.540	BETWEEN GROUPS WITHIN GROUPS TOTAL	41.9213 5176.2250 5218.1463	2 120 122	20.9607 43.1352	0.4859	-0.0084
23	N	M	SD	10 19.300 5.100	83 23.036 6.575	13 23.231 7.328	106 22.708 6.584	BETWEEN GROUPS WITHIN GROUPS TOTAL	128.6347 4423.2993 4551.9340	2 103 105	64.3174 42.9447	1.4977	0.0093
24	N	M	SD	12 19.750 6.982	96 22.875 6.942	15 22.467 6.999	123 22.520 6.957	BETWEEN GROUPS WITHIN GROUPS TOTAL	104.2159 5800.4833 5904.6992	2 120 122	52.1079 48.3374	1.0780	0.0013

LLJYD 1-14: READING DEFICIENCY ANALYSIS OF VARIANCE RUNS

LLJYD 1-14C: NEGRO MALES - Low SES

J	N	M	SU	1	2	3	TOTAL	SOURCE	SUM OF SQUARES	JF	MEAN SQUARE	F RATIO	JMEGA SQ
25	N			0	15	4	19	BETWEEN GROUPS	128.0035	1	128.0035	1.8306	0.0422
	M	0.0	27.500	21.133	21.133	27.500	22.474	WITHIN GROUPS	1184.7333	17	69.6902		
	SU	0.0	12.583	7.120	8.540	12.583	8.540	TOTAL	1312.7368	18			
26	N	12	15	95	122	122	122	BETWEEN GROUPS	180.4005	2	90.2002	2.7702	0.0282
	M	28.583	33.733	31.032	31.123	33.733	31.123	WITHIN GROUPS	3874.7553	114	32.5610		
	SU	5.501	5.351	5.780	5.789	5.351	5.789	TOTAL	4055.1557	121			
27	N	0	4	8	12	12	12	BETWEEN GROUPS	4.1667	1	4.1667	0.0629	-0.0667
	M	0.0	22.500	23.750	23.333	22.500	23.333	WITHIN GROUPS	602.5000	10	60.2500		
	SU	0.0	8.660	7.906	7.785	8.660	7.785	TOTAL	606.6667	11			
28	N	12	15	96	123	123	123	BETWEEN GROUPS	61.3380	2	30.6690	0.4260	-0.0094
	M	25.583	26.600	27.437	27.398	26.600	27.398	WITHIN GROUPS	8640.1417	120	72.0012		
	SU	9.414	9.077	8.279	8.445	9.077	8.445	TOTAL	8701.4797	122			
29	N	12	15	95	122	122	122	BETWEEN GROUPS	67.2444	2	33.6222	0.7249	-0.0045
	M	27.667	30.733	28.905	29.008	30.733	29.008	WITHIN GROUPS	5519.7474	119	46.3844		
	SU	7.303	4.964	6.986	6.795	4.964	6.795	TOTAL	5586.9918	121			
30	N	12	15	96	123	123	123	BETWEEN GROUPS	31.2323	2	15.6162	0.2096	-0.0130
	M	29.583	31.067	29.521	29.715	31.067	29.715	WITHIN GROUPS	8959.8083	120	74.6484		
	SU	10.086	8.084	8.526	8.575	8.084	8.575	TOTAL	8971.0407	122			
31	N	12	15	96	123	123	123	BETWEEN GROUPS	209.2433	2	104.6216	2.0234	0.0164
	M	22.333	28.533	26.563	26.390	28.533	26.390	WITHIN GROUPS	7984.0250	120	66.5335		
	SU	5.416	8.749	8.329	8.225	8.749	8.225	TOTAL	8253.2683	122			
32	N	12	14	89	115	115	115	BETWEEN GROUPS	351.6376	2	175.8188	2.9655	0.0331
	M	19.917	27.286	24.079	24.035	27.286	24.035	WITHIN GROUPS	6640.2232	112	59.2877		
	SU	7.204	8.241	7.677	7.831	8.241	7.831	TOTAL	6991.8609	114			
33	N	7	13	73	93	93	93	BETWEEN GROUPS	55.2201	2	27.6100	0.5860	-0.0090
	M	21.000	23.846	23.932	23.699	23.846	23.699	WITHIN GROUPS	4240.3498	90	47.1150		
	SU	2.769	7.537	6.985	6.833	7.537	6.833	TOTAL	4295.5699	92			
34	N	6	11	63	80	80	80	BETWEEN GROUPS	13.3968	2	6.6984	0.1155	-0.0221
	M	22.333	23.000	23.698	23.500	23.000	23.500	WITHIN GROUPS	3806.5032	77	49.4364		
	SU	7.737	7.629	6.869	6.954	7.629	6.954	TOTAL	3820.0000	79			
35	N	5	7	51	63	63	63	BETWEEN GROUPS	57.2698	2	28.6349	0.5105	-0.0158
	M	29.000	27.000	25.667	26.079	27.000	26.079	WITHIN GROUPS	3365.3333	60	56.0889		
	SU	7.483	6.976	7.549	7.430	6.976	7.430	TOTAL	3422.6032	62			
36	N	3	7	42	52	52	52	BETWEEN GROUPS	2.6130	2	1.3065	0.0363	-0.0385
	M	26.667	27.000	26.357	26.462	27.000	26.462	WITHIN GROUPS	1764.3095	49	36.0063		
	SU	2.887	5.367	6.401	5.886	5.367	5.886	TOTAL	1766.9231	51			

LLJYD 1-14: READING DEFICIENCY ANALYSIS OF VARIANCE RUNS

LLJYD 1-14C: NEGRO MALES - Low SES

J	N	M	SD	1	2	3	TOTAL	SOURCE	SUM OF SQUARES	DF	MEAN SQUARE	F RATIO	OMEGA SQ
37	N	M	SD	11 77.273 11.499	87 81.701 10.301	14 87.571 13.849	112 82.000 10.866	BETWEEN GROUPS WITHIN GROUPS TOTAL	688.1597 12417.8403 13106.0000	2 109 111	344.0799 113.9251	3.0202	0.0348
38	N	M	SD	5 81.600 11.675	55 85.127 10.358	9 88.776 14.515	69 85.348 11.013	BETWEEN GROUPS WITHIN GROUPS TOTAL	178.7875 8068.8646 8247.6522	2 66 68	89.3938 122.2555	0.7312	-0.0079
39	N	M	SD	4 4.000 1.155	39 3.282 1.432	8 2.750 1.832	51 3.255 1.481	BETWEEN GROUPS WITHIN GROUPS TOTAL	4.2888 105.3974 109.6863	2 48 50	2.1444 2.1958	0.9766	-0.0009
40	N	M	SD	10 40.600 7.486	77 43.312 10.716	10 53.700 13.985	97 44.103 11.221	BETWEEN GROUPS WITHIN GROUPS TOTAL	1091.9496 10995.0195 12086.9691	2 94 96	545.9748 116.9683	4.6677	0.0703
41	N	M	SD	10 43.800 9.438	80 47.837 11.541	11 56.000 12.609	101 48.327 11.750	BETWEEN GROUPS WITHIN GROUPS TOTAL	871.7303 12934.4875 13806.2178	2 98 100	435.8652 131.9846	3.3024	0.0436
42	N	M	SD	8 34.500 9.914	69 40.478 12.069	11 48.182 14.211	88 40.898 12.473	BETWEEN GROUPS WITHIN GROUPS TOTAL	923.2258 12612.8538 13536.0795	2 85 87	461.6129 148.3865	3.1109	0.0458
43	N	M	SD	9 50.889 8.373	80 51.250 9.461	11 59.455 9.863	100 52.120 9.677	BETWEEN GROUPS WITHIN GROUPS TOTAL	665.9438 8004.6162 9270.5600	2 97 99	332.9719 88.7074	3.7536	0.0522
44	N	M	SD	10 43.500 7.382	73 45.055 8.120	10 54.400 12.545	93 45.892 9.021	BETWEEN GROUPS WITHIN GROUPS TOTAL	832.2439 6654.8808 7486.9247	2 90 92	416.1220 73.9409	5.6278	0.0905
45	N	M	SD	3 02.667 0.351	15 60.533 17.876	4 76.750 14.151	22 63.773 16.889	BETWEEN GROUPS WITHIN GROUPS TOTAL	834.7136 5155.1500 5989.8636	2 19 21	417.3568 271.3237	1.5382	0.0466
46	N	M	SD	3 00.335 0.774	15 54.267 12.453	4 87.250 10.782	22 61.091 16.937	BETWEEN GROUPS WITHIN GROUPS TOTAL	3437.4682 2586.3500 6023.8182	2 19 21	1718.7341 136.1237	12.6263	0.5138
47	N	M	SD	2 01.667 3.215	15 57.533 13.336	4 82.000 11.402	22 62.545 15.108	BETWEEN GROUPS WITHIN GROUPS TOTAL	1893.0545 2900.4000 4793.4545	2 19 21	946.5273 152.6526	6.2005	0.3210
48	N	M	SD	6 7.500 4.930	62 7.000 5.358	12 9.667 3.822	80 7.457 3.631	BETWEEN GROUPS WITHIN GROUPS TOTAL	71.5208 970.1667 1041.6875	2 77 79	35.7604 12.5996	2.8382	0.0439

LLJYD 1-14: READING DEFICIENCY ANALYSIS OF VARIANCE RUNS

LLJYD 1-14C: NEGRO MALES - Low SES

J	N	1	2	3	TOTAL	SOURCE	SUM OF SQUARES	DF	MEAN SQUARE	F RATIO	OMEGA SQ
49	N	7	67	12	86	BETWEEN GROUPS	121.3408	2	60.6704	5.1966	0.0889
	M	6.143	6.851	10.167	7.256	WITHIN GROUPS	969.0313	83	11.6751		
	SD	3.485	3.470	5.040	3.582	TOTAL	1090.3721	85			
50	N	7	67	13	87	BETWEEN GROUPS	49.7203	2	24.8602	1.5593	0.0127
	M	5.857	6.776	8.092	6.989	WITHIN GROUPS	1339.2682	84	15.9437		
	SD	2.734	4.007	4.423	4.019	TOTAL	1388.9885	86			
51	N	8	69	12	89	BETWEEN GROUPS	5.7484	2	2.8742	0.2190	-0.0179
	M	7.625	6.797	7.167	6.921	WITHIN GROUPS	1128.7011	86	13.1244		
	SD	4.033	3.575	3.639	3.590	TOTAL	1134.4494	88			
52	N	7	69	12	88	BETWEEN GROUPS	31.0996	2	15.5498	1.9337	0.0208
	M	6.000	7.304	8.583	7.375	WITHIN GROUPS	883.5254	85	10.415		
	SD	3.162	2.830	2.678	2.866	TOTAL	714.6250	87			
53	N	7	69	12	88	BETWEEN GROUPS	9.1243	2	4.5621	0.2728	-0.0168
	M	8.286	7.159	7.583	7.307	WITHIN GROUPS	1421.5916	85	16.7246		
	SD	3.904	4.075	4.274	4.055	TOTAL	1430.7159	87			
54	N	8	64	13	85	BETWEEN GROUPS	95.1209	2	47.5635	4.7735	0.0815
	M	5.625	4.672	7.015	5.212	WITHIN GROUPS	817.0613	82	9.9642		
	SD	3.021	2.944	4.154	3.295	TOTAL	912.1822	84			
55	N	8	66	13	87	BETWEEN GROUPS	54.6223	2	27.3112	2.3373	0.0298
	M	5.250	5.657	7.846	5.977	WITHIN GROUPS	985.1317	84	11.7278		
	SD	3.655	3.495	4.853	3.477	TOTAL	1039.7540	86			
56	N	8	60	11	79	BETWEEN GROUPS	2.2079	2	1.1040	0.0977	-0.0234
	M	6.000	6.217	6.636	6.253	WITHIN GROUPS	858.7288	76	11.2991		
	SD	3.025	3.211	3.982	3.322	TOTAL	860.9367	78			
57	N	13	99	17	129	BETWEEN GROUPS	4327.5837	2	2413.8418	141.0318	0.6846
	M	88.231	99.485	113.294	100.171	WITHIN GROUPS	2156.5644	126	17.1156		
	SD	2.166	4.181	4.921	7.367	TOTAL	6484.1481	128			

LLOYD 1-14: READING DEFICIENCY ANALYSIS OF VARIANCE RUNS

LLOYD 1-14E: NEGRO MALES - High IQ

J	N	M	SD	1	2	3	TOTAL	SOURCE	SUM OF SQUARES	DF	MEAN SQUARE	F RATIO	OMEGA SQ
1	N	13		113	82	18	113	BETWEEN GROUPS	206.7020	2	103.3510	2.3440	0.0232
	M	142.846	139.561	142.389	140.599			WITHIN GROUPS	4850.1652	110	44.0924		
	SD	9.091	6.340	5.952	6.7.9			TOTAL	5056.8673	112			
2	N	11		107	80	16	107	BETWEEN GROUPS	5.0225	2	2.5113	1.6727	0.0124
	M	5.318	5.125	5.375	5.234			WITHIN GROUPS	156.1364	104	1.5013		
	SD	0.603	1.325	0.957	1.233			TOTAL	161.1589	106			
3	N	13		110	79	18	110	BETWEEN GROUPS	1.1430	2	0.5715	0.3980	-0.0111
	M	5.231	4.924	4.889	4.955			WITHIN GROUPS	153.6298	107	1.4358		
	SD	1.013	1.259	1.023	1.192			TOTAL	154.7727	109			
4	N	13		113	82	18	113	BETWEEN GROUPS	0.7686	2	0.3843	0.0529	-0.0170
	M	4.462	4.720	4.722	4.690			WITHIN GROUPS	799.3907	110	7.2672		
	SD	2.504	2.617	3.159	2.673			TOTAL	800.1593	112			
5	N	12		108	79	17	108	BETWEEN GROUPS	1.4041	2	0.7020	0.5473	-0.0085
	M	5.417	5.772	5.647	5.713			WITHIN GROUPS	134.6978	105	1.2828		
	SD	0.793	1.219	0.862	1.128			TOTAL	136.1019	107			
6	N	13		108	78	17	108	BETWEEN GROUPS	0.0471	2	0.0236	0.0407	-0.0181
	M	4.308	4.372	4.353	4.361			WITHIN GROUPS	60.8695	105	0.5797		
	SD	0.480	0.824	0.606	0.755			TOTAL	60.9167	107			
7	N	13		109	79	17	109	BETWEEN GROUPS	669.9771	2	334.9886	24.0517	0.2972
	M	15.385	19.494	24.706	19.817			WITHIN GROUPS	1476.3532	106	13.9279		
	SD	3.798	3.633	4.135	4.458			TOTAL	2146.3303	108			
8	N	13		113	82	18	113	BETWEEN GROUPS	175.3556	2	87.6778	1.0378	0.0607
	M	95.923	98.451	100.722	98.522			WITHIN GROUPS	9292.8391	110	84.4804		
	SD	11.280	8.405	10.964	9.194			TOTAL	9468.1947	112			
9	N	8		78	58	12	78	BETWEEN GROUPS	17.7630	2	8.8815	4.2730	0.0774
	M	4.000	2.431	2.833	2.654			WITHIN GROUPS	155.8908	75	2.0785		
	SD	1.927	1.440	1.030	1.502			TOTAL	173.6538	77			
10	N	10		83	61	12	83	BETWEEN GROUPS	0.3882	2	0.1941	0.0981	-0.0222
	M	2.400	2.541	2.667	2.542			WITHIN GROUPS	158.2142	80	1.9777		
	SD	1.430	1.385	1.497	1.391			TOTAL	158.6024	82			
11	N	11		94	69	14	94	BETWEEN GROUPS	3.1874	2	1.5937	1.1894	0.0040
	M	3.000	2.551	2.286	2.564			WITHIN GROUPS	121.9296	91	1.3399		
	SD	1.183	1.105	1.383	1.160			TOTAL	125.1170	93			
12	N	11		99	74	14	99	BETWEEN GROUPS	10.6567	2	5.3284	2.7354	0.0339
	M	3.091	2.068	2.429	2.232			WITHIN GROUPS	186.9998	96	1.9479		
	SD	2.071	1.253	1.505	1.420			TOTAL	197.6566	98			

LLOYD 1-14: READING DEFICIENCY ANALYSIS OF VARIANCE RUNS

LLOYD 1-14E: NEGRO MALES - High IQ

J		1	2	3	TOTAL	SOURCE	SUM OF SQUARES	DF	MEAN SQUARE	F RATIO	OMEGA SQ
13	N	7	55	10	72	BETWEEN GROUPS	174.6509	2	87.3255	1.7316	0.0199
	M	33.857	35.345	39.500	35.778	WITHIN GROUPS	3479.7935	69	50.4318		
	SD	8.174	7.108	6.241	7.174	TOTAL	3654.4444	71			
14	N	12	70	16	98	BETWEEN GROUPS	7504.3625	2	3752.1813	57.0365	0.5335
	M	33.500	46.700	65.438	48.143	WITHIN GROUPS	6249.6375	95	65.7857		
	SD	9.170	7.341	10.347	11.908	TOTAL	13754.0000	97			
15	N	10	77	16	103	BETWEEN GROUPS	0.2877	2	0.1439	0.7512	-0.0049
	M	2.600	2.753	2.812	2.748	WITHIN GROUPS	19.1492	100	0.1915		
	SD	0.516	0.434	0.403	0.437	TOTAL	19.4369	102			
16	N	12	70	16	98	BETWEEN GROUPS	5005.5129	2	2502.7565	43.9924	0.4673
	M	41.333	54.029	68.000	54.755	WITHIN GROUPS	5404.6095	95	56.8904		
	SD	8.627	7.087	8.641	10.360	TOTAL	10410.1224	97			
17	N	4	54	11	69	BETWEEN GROUPS	260.0261	2	130.0130	0.6690	-0.0097
	M	99.750	102.315	97.091	101.333	WITHIN GROUPS	12827.3072	66	194.3531		
	SD	21.297	13.771	11.895	13.873	TOTAL	13087.3333	68			
18	N	13	82	18	113	BETWEEN GROUPS	7267.3879	2	3633.6939	102.9778	0.6435
	M	34.615	49.915	65.333	50.611	WITHIN GROUPS	3881.4794	110	35.2862		
	SD	8.471	5.283	6.686	9.977	TOTAL	11148.8673	112			
19	N	13	82	18	113	BETWEEN GROUPS	1043.6978	2	521.8489	17.0267	0.2210
	M	50.615	56.049	62.167	56.398	WITHIN GROUPS	3371.3818	110	30.6489		
	SD	4.610	5.363	6.802	6.279	TOTAL	4415.0796	112			
20	N	13	81	18	112	BETWEEN GROUPS	1375.6712	2	687.8356	16.5453	0.2173
	M	48.692	54.704	61.889	55.161	WITHIN GROUPS	4531.4359	109	41.5728		
	SD	9.844	5.832	6.173	7.295	TOTAL	5907.1071	111			
21	N	12	78	17	107	BETWEEN GROUPS	349.6441	2	174.8220	4.7637	0.0657
	M	23.750	28.269	30.765	28.159	WITHIN GROUPS	3816.6250	104	36.6986		
	SD	5.048	5.864	7.454	6.269	TOTAL	4166.2991	106			
22	N	12	78	17	107	BETWEEN GROUPS	350.2634	2	175.1317	4.6373	0.0637
	M	23.833	28.487	30.824	28.336	WITHIN GROUPS	3927.6244	104	37.7656		
	SD	5.184	5.980	7.410	6.353	TOTAL	4277.8879	106			
23	N	11	73	17	101	BETWEEN GROUPS	267.5815	2	133.7908	2.6931	0.0324
	M	24.273	27.521	30.529	27.673	WITHIN GROUPS	4868.6363	98	49.6800		
	SD	5.746	7.069	7.666	7.167	TOTAL	5136.2178	100			
24	N	12	78	17	107	BETWEEN GROUPS	357.2303	2	178.6151	3.8871	0.0512
	M	22.833	27.295	29.941	27.215	WITHIN GROUPS	4776.8258	104	45.9502		
	SD	6.088	6.533	8.235	6.961	TOTAL	5136.0561	106			

LLOYD I-14: READING DEFICIENCY ANALYSIS OF VARIANCE RUNS

LLOYD I-14E: NEGRO MALES - High IQ

J	N	M	SD	1	2	3	TOTAL	SOURCE	SUM OF SQUARES	DF	MEAN SQUARE	F RATIO	OMEGA SQ
25	30.000	26.909	7.157	31	8	34.625	29.000	BETWEEN GROUPS	350.3068	2	175.1534	3.3279	0.1306
	0.0	7.157	7.539	7.797	7.539	7.539	7.797	WITHIN GROUPS	1473.6932	28	52.6319		
								TOTAL	1824.0000	30			
26	30.750	32.372	5.527	107	17	35.765	32.729	BETWEEN GROUPS	213.6134	2	106.8067	3.7711	0.0492
	4.003	5.527	5.106	5.459	5.106	5.106	5.459	WITHIN GROUPS	2945.5268	104	28.3224		
								TOTAL	3159.1402	106			
27	0	20	26.550	26	6	28.667	27.038	BETWEEN GROUPS	20.6782	1	20.6782	0.5464	-0.0178
	0.0	5.826	7.257	6.096	7.257	7.257	6.096	WITHIN GROUPS	908.2833	24	37.8451		
								TOTAL	928.9615	25			
28	12	78	32.397	107	17	37.647	32.654	BETWEEN GROUPS	779.3938	2	389.6969	7.2053	0.1039
	7.665	7.338	7.211	7.773	7.211	7.211	7.773	WITHIN GROUPS	5624.8118	104	54.0847		
								TOTAL	6404.2056	106			
29	12	78	32.885	107	17	37.412	32.804	BETWEEN GROUPS	130.1179	2	65.0590	1.0651	0.0012
	30.083	7.530	8.403	7.820	8.403	8.403	7.820	WITHIN GROUPS	6352.7606	104	61.0842		
								TOTAL	6482.8785	106			
30	12	77	33.468	106	17	37.412	33.594	BETWEEN GROUPS	502.2701	2	251.1351	4.4132	0.0605
	29.000	7.701	6.965	7.785	6.965	6.965	7.785	WITHIN GROUPS	5861.2865	103	56.9057		
								TOTAL	6363.5566	105			
31	12	78	31.436	107	17	36.765	31.738	BETWEEN GROUPS	755.5179	2	377.7590	8.3604	0.1209
	26.583	6.924	6.369	7.174	6.369	6.369	7.174	WITHIN GROUPS	4699.1550	104	45.1842		
								TOTAL	5454.6729	106			
32	12	78	28.795	107	17	34.412	29.150	BETWEEN GROUPS	798.7719	2	399.3859	7.2201	0.1042
	24.000	7.108	8.747	7.862	8.747	8.747	7.862	WITHIN GROUPS	5752.8356	104	55.3157		
								TOTAL	6551.6075	106			
33	10	74	27.446	101	17	31.000	27.594	BETWEEN GROUPS	419.1727	2	209.5863	3.0705	0.0394
	22.900	8.587	8.193	8.431	8.193	8.193	8.431	WITHIN GROUPS	6689.1838	98	68.2570		
								TOTAL	7108.3564	100			
34	8	66	27.379	90	16	30.625	27.578	BETWEEN GROUPS	309.8003	2	154.9001	3.4447	0.0515
	23.125	6.094	9.003	6.888	9.003	9.003	6.888	WITHIN GROUPS	3912.1553	87	44.9673		
								TOTAL	4221.9556	89			
35	7	62	28.823	84	15	29.000	28.833	BETWEEN GROUPS	0.9040	2	0.4520	0.0084	-0.0242
	28.571	7.226	7.928	7.234	7.928	7.928	7.234	WITHIN GROUPS	4342.7627	81	53.6144		
								TOTAL	4343.6667	83			
36	6	56	27.786	75	13	30.923	28.133	BETWEEN GROUPS	154.9817	2	77.4908	1.9565	0.0249
	25.333	6.635	5.560	6.374	5.560	5.560	6.374	WITHIN GROUPS	2851.6850	72	39.6067		
								TOTAL	3006.6667	74			

LLOYD 1-14: READING DEFICIENCY ANALYSIS OF VARIANCE RUNS

LLOYD 1-14E: NEGRO MALES - High IQ

J	N	M	SD	1	2	3	TOTAL	SOURCE	SUM OF SQUARES	DF	MEAN SQUARE	F RATIO	OMEGA SQ
37	12	79.333	12.033	17	70	94.353	99	BETWEEN GROUPS	1587.3744	2	793.6872	8.1460	0.1262
				10.647	87.986	10.647	88.030	WITHIN GROUPS	9353.5347	96	97.4327		
							10.566	TOTAL	10940.9091	98			
38	7	86.000	10.661	13	64	97.462	84	BETWEEN GROUPS	749.2194	2	374.6097	4.3098	0.0730
				11.659	90.297	11.659	91.048	WITHIN GROUPS	7040.5901	81	86.9209		
							9.688	TOTAL	7789.8095	83			
39	6	4.167	1.329	13	51	2.615	70	BETWEEN GROUPS	11.1362	2	5.5681	3.1102	0.0569
				1.261	2.804	1.261	2.886	WITHIN GROUPS	119.9495	67	1.7903		
							1.378	TOTAL	131.0857	69			
40	9	42.889	8.298	14	69	59.286	92	BETWEEN GROUPS	1714.0366	2	857.0183	7.3514	0.1213
				8.827	49.130	8.827	50.065	WITHIN GROUPS	10375.5721	89	116.5795		
							11.526	TOTAL	12089.6087	91			
41	11	45.818	8.953	15	69	66.600	95	BETWEEN GROUPS	3493.8752	2	1746.9376	14.6822	0.2236
				12.603	51.493	12.603	53.221	WITHIN GROUPS	10946.4827	92	118.9835		
							12.394	TOTAL	14440.3579	94			
42	9	39.778	14.167	15	59	48.400	83	BETWEEN GROUPS	477.2998	2	238.6499	1.0560	0.0013
				18.298	43.305	18.298	43.843	WITHIN GROUPS	18079.6640	80	225.9958		
							15.043	TOTAL	18556.9639	82			
43	11	51.636	9.678	14	67	63.000	92	BETWEEN GROUPS	897.9894	2	448.9947	5.8660	0.0957
				8.884	55.627	8.884	56.272	WITHIN GROUPS	6812.2171	89	76.5418		
							9.205	TOTAL	7710.2065	91			
44	8	46.500	7.874	13	65	61.077	86	BETWEEN GROUPS	1650.5295	2	825.2648	15.2544	0.2490
				5.993	49.385	5.993	50.884	WITHIN GROUPS	4490.3077	83	54.1001		
							8.500	TOTAL	6140.8372	85			
45	2	51.500	26.163	6	15	76.333	23	BETWEEN GROUPS	1189.9058	2	594.9529	1.6736	0.0553
				12.226	63.000	12.226	65.478	WITHIN GROUPS	7109.8333	20	355.4917		
							19.423	TOTAL	8299.7391	22			
46	2	55.000	2.828	6	15	81.333	23	BETWEEN GROUPS	2771.5420	2	1385.7710	7.4925	0.3608
				13.277	56.533	13.277	62.870	WITHIN GROUPS	3699.0667	20	184.9533		
							17.150	TOTAL	6470.6087	22			
47	2	53.500	14.849	6	15	78.833	23	BETWEEN GROUPS	1769.2116	2	884.6058	4.3833	0.2273
				10.108	60.067	10.108	64.391	WITHIN GROUPS	4036.2667	20	201.8133		
							16.245	TOTAL	5805.4783	22			
48	7	7.857	5.113	16	67	9.537	90	BETWEEN GROUPS	43.3335	2	21.6668	1.5092	0.0112
				3.941	8.164	3.941	8.456	WITHIN GROUPS	1248.9887	87	14.3562		
							3.811	TOTAL	1292.3222	89			

LLOYD 1-14: READING DEFICIENCY ANALYSIS OF VARIANCE RUNS

LLOYD 1-14E: NEGRO MALES - High IQ

J	N	M	SD	i	2	3	TOTAL	SOURCE	SUM OF SQUARES	DF	MEAN SQUARE	F RATIO	OMEGA SQ
49	8	5.375	3.420	71	16	95	BETWEEN GROUPS	139.0353	2	69.5177	4.0732	0.0608	
	16	10.312	4.191	8.137	4.264	92	WITHIN GROUPS	1570.1857	92	17.0672			
				4.264		94	TOTAL	1709.2211	94				
50	9	6.111	3.219	71	16	96	BETWEEN GROUPS	187.7709	2	93.8854	6.4360	0.1017	
	16	11.500	3.688	8.781	4.032	93	WITHIN GROUPS	1356.6354	93	14.5875			
				4.032		95	TOTAL	1544.4062	95				
51	9	6.889	4.314	70	16	95	BETWEEN GROUPS	8.1774	2	4.0887	0.3356	-0.0142	
	16	6.937	2.516	7.411	3.466	92	WITHIN GROUPS	1120.8121	92	12.1827			
				3.466		94	TOTAL	1128.9895	94				
52	8	5.500	3.024	70	16	94	BETWEEN GROUPS	80.2074	2	40.1037	4.6210	0.0715	
	16	9.375	3.074	8.021	3.058	91	WITHIN GROUPS	789.7500	91	8.6786			
				3.058		93	TOTAL	869.9574	93				
53	8	4.250	4.496	71	16	95	BETWEEN GROUPS	82.0790	2	41.0395	2.4885	0.0304	
	16	8.062	4.008	7.168	4.125	92	WITHIN GROUPS	1517.2262	92	16.4916			
				4.125		94	TOTAL	1599.3053	94				
54	9	4.222	3.270	69	16	94	BETWEEN GROUPS	106.0797	2	53.0399	4.5056	0.0694	
	16	8.187	3.816	6.085	3.558	91	WITHIN GROUPS	1071.2394	91	11.7719			
				3.558		93	TOTAL	1177.3191	93				
55	9	3.444	3.005	69	16	94	BETWEEN GROUPS	213.8074	2	106.9037	8.7734	0.1419	
	16	9.500	3.916	7.596	3.771	91	WITHIN GROUPS	1108.8309	91	12.1850			
				3.771		93	TOTAL	1322.6383	93				
56	9	6.667	4.213	67	15	91	BETWEEN GROUPS	14.0442	2	7.0221	0.5703	-0.0095	
	15	7.933	3.494	7.066	3.492	88	WITHIN GROUPS	1083.5602	88	12.3132			
				3.492		90	TOTAL	1097.6044	90				
57	13	86.000	6.733	82	18	113	BETWEEN GROUPS	6389.4064	2	3194.7032	147.5404	0.7217	
	18	114.778	6.691	100.912	8.649	110	WITHIN GROUPS	2391.7087	110	21.6519			
				8.649		112	TOTAL	8771.1150	112				

LLOYD 1-14: READING DEFICIENCY ANALYSIS OF VARIANCE R.L.S

LLOYD 1-140: NEGRO MALES - Low IQ

J	N	M	SD	1	2	3	TOTAL	SOURCE	SUM OF SQUARES	DF	MEAN SQUARE	F RATIO	OMEGA SQ
1	N	14		86	18	118		BETWEEN GROUPS	554.1156	2	277.0578	1.8592	0.0144
	M	146.643	152.012	154.944	151.822	151.822		WITHIN GROUPS	17137.1471	115	149.0187		
	SD	12.852	11.898	13.189	12.297	12.297		TOTAL	17691.2627	117			
2	N	12		78	16	106		BETWEEN GROUPS	2.3056	2	1.1528	1.0144	0.0003
	M	5.333	5.474	5.062	5.396	5.396		WITHIN GROUPS	117.0529	103	1.1364		
	SD	0.985	0.990	1.436	1.066	1.066		TOTAL	119.3585	105			
3	N	13		78	16	107		BETWEEN GROUPS	1.0550	2	0.5275	0.3727	-0.0119
	M	4.323	5.231	5.187	5.187	5.187		WITHIN GROUPS	147.2067	104	1.4154		
	SD	1.038	1.161	1.424	1.183	1.183		TOTAL	148.2617	106			
4	N	14		86	18	118		BETWEEN GROUPS	3.2546	2	1.6273	0.2055	-0.0136
	M	4.357	4.721	5.000	4.720	4.720		WITHIN GROUPS	910.5166	115	7.9175		
	SD	2.951	2.823	2.657	2.795	2.795		TOTAL	913.7712	117			
5	N	13		79	17	109		BETWEEN GROUPS	0.3677	2	0.1838	0.1399	-0.0160
	M	6.000	6.177	6.118	6.147	6.147		WITHIN GROUPS	139.2837	106	1.3140		
	SD	0.816	1.083	1.576	1.137	1.137		TOTAL	139.6514	108			
6	N	12		81	18	111		BETWEEN GROUPS	0.9234	2	0.4617	0.9263	-0.0013
	M	4.667	4.630	4.389	4.595	4.595		WITHIN GROUPS	53.8333	108	0.4985		
	SD	0.651	0.679	0.850	0.706	0.706		TOTAL	54.7568	110			
7	N	14		81	18	113		BETWEEN GROUPS	97.5057	2	48.7528	2.4359	0.0248
	M	14.643	14.691	17.222	15.088	15.088		WITHIN GROUPS	2201.6093	110	20.0146		
	SD	4.986	4.355	4.609	4.531	4.531		TOTAL	2299.1150	112			
8	N	14		86	18	118		BETWEEN GROUPS	582.1537	2	291.0768	3.9726	0.0480
	M	78.786	72.326	70.944	72.881	72.881		WITHIN GROUPS	8426.1853	115	73.2712		
	SD	7.423	8.476	9.710	8.775	8.775		TOTAL	9008.3390	117			
9	N	11		60	14	85		BETWEEN GROUPS	13.1646	2	6.5823	2.7480	0.0395
	M	2.000	2.983	3.429	2.929	2.929		WITHIN GROUPS	196.4119	82	2.3953		
	SD	1.095	1.589	1.651	1.580	1.580		TOTAL	209.5765	84			
10	N	13		62	13	88		BETWEEN GROUPS	1.6338	2	0.8169	0.2732	-0.0168
	M	2.692	2.806	3.154	2.841	2.841		WITHIN GROUPS	254.1390	85	2.9899		
	SD	1.437	1.836	1.405	1.715	1.715		TOTAL	255.7727	87			
11	N	13		66	14	93		BETWEEN GROUPS	0.0147	2	0.0074	0.0031	-0.0219
	M	2.846	2.879	2.857	2.871	2.871		WITHIN GROUPS	214.4369	90	2.3826		
	SD	1.519	1.613	1.167	1.527	1.527		TOTAL	214.4516	92			
12	N	12		71	15	98		BETWEEN GROUPS	2.2181	2	1.1090	0.3927	-0.0125
	M	2.750	2.887	3.267	2.929	2.929		WITHIN GROUPS	268.2819	95	2.8240		
	SD	2.050	1.626	1.624	1.670	1.670		TOTAL	270.5000	97			

LLOYD 1-14: READING DEFICIENCY ANALYSIS OF VARIANCE RUNS

LLOYD 1-140: NEGRO MALES - Low IQ

	1	2	3	TOTAL	SOURCE	SUM OF SQUARES	DF	MEAN SQUARE	F RATIO	OMEGA SQ
13	N 11 M 24.818 SD 5.636	44 26.568 7.337	11 30.182 5.997	66 26.879 6.976	BETWEEN GROUPS WITHIN GROUPS TOTAL	170.9621 2992.0682 3163.0303	2 63 65	85.4811 47.4931	1.7999	0.0237
14	N 10 M 25.600 SD 4.300	73 32.945 7.890	17 46.706 8.971	100 34.550 9.763	BETWEEN GROUPS WITHIN GROUPS TOTAL	3501.0398 5935.7102 9436.7500	2 97 99	1750.5199 61.1929	28.6066	0.3557
15	N 12 M 2.333 SD 0.492	72 2.347 0.479	14 2.429 0.514	98 2.357 0.482	BETWEEN GROUPS WITHIN GROUPS TOTAL	0.0853 22.4147 22.5000	2 95 97	0.0427 0.2359	0.1808	-0.0170
16	N 10 M 38.400 SD 4.858	73 43.808 6.235	17 54.471 8.747	100 45.080 7.977	BETWEEN GROUPS WITHIN GROUPS TOTAL	2063.4096 4235.9504 6299.3600	2 97 99	1031.7048 43.6696	23.6252	0.3115
17	N 11 M 81.273 SD 12.924	51 87.275 12.603	12 88.500 15.658	74 86.581 13.184	BETWEEN GROUPS WITHIN GROUPS TOTAL	378.6748 12309.3387 12688.0135	2 71 73	189.3374 173.3710	1.0921	0.0025
18	N 14 M 28.929 SD 3.583	86 36.826 6.295	18 50.944 8.250	118 38.042 8.760	BETWEEN GROUPS WITHIN GROUPS TOTAL	4286.5314 4692.2567 8978.7881	2 115 117	2143.2657 40.8022	52.5281	0.4662
19	N 14 M 46.357 SD 6.721	85 47.118 6.105	18 52.500 8.068	117 47.855 6.753	BETWEEN GROUPS WITHIN GROUPS TOTAL	465.9921 4824.5378 5290.5299	2 114 116	232.9960 42.3205	5.5055	0.0715
20	N 14 M 43.286 SD 5.993	84 44.750 7.154	18 52.000 7.654	116 45.698 7.566	BETWEEN GROUPS WITHIN GROUPS TOTAL	871.8325 5710.6071 6582.4397	2 113 115	435.9163 50.5363	8.6258	0.1162
21	N 12 M 20.833 SD 5.096	79 20.304 5.261	16 22.687 5.558	107 20.720 5.305	BETWEEN GROUPS WITHIN GROUPS TOTAL	75.7758 2907.8130 2983.5888	2 104 106	37.8879 27.9597	1.3551	0.0066
22	N 12 M 20.667 SD 5.015	79 20.089 5.140	16 23.000 5.877	107 20.589 5.291	BETWEEN GROUPS WITHIN GROUPS TOTAL	112.8601 2855.0464 2967.9065	2 104 106	56.4301 27.4524	2.0556	0.0193
23	N 10 M 18.500 SD 5.482	69 20.101 5.770	13 21.385 6.500	92 20.109 5.826	BETWEEN GROUPS WITHIN GROUPS TOTAL	47.0463 3041.8668 3088.9130	2 89 91	23.5231 34.1703	0.6882	-0.0068
24	N 12 M 18.667 SD 7.240	79 19.772 5.517	16 21.375 6.500	107 19.888 5.859	BETWEEN GROUPS WITHIN GROUPS TOTAL	54.3388 3584.3154 3638.6542	2 104 106	27.1694 34.4666	0.7883	-0.0040



LLOYD 1-14: READING DEFICIENCY ANALYSIS OF VARIANCE RUNS

LLOYD 1-14D: NEGRO MALES - Low IQ

J	N	M	SD	1	2	3	TOTAL	SOURCE	SUM OF SQUARES	DF	MEAN SQUARE	F RATIO	OMEGA SQ
25	N	0					7	BETWEEN GROUPS	6.9143	1	6.9143	0.1401	-0.1401
	M	0.0	17.200	5	2	15.000	16.571	WITHIN GROUPS	246.8000	5	49.3600		
	SD	0.0	7.014	7.071	7.071	6.503	6.503	TOTAL	253.7143	6			
26	N	12					105	BETWEEN GROUPS	58.3342	2	29.1671	0.8807	-0.023
	M	28.833	30.494	16	16	31.750	30.495	WITHIN GROUPS	3377.9134	102	33.1168		
	SD	5.734	5.926	4.810	4.810	5.748	5.748	TOTAL	3436.2476	104			
27	N	1					5	BETWEEN GROUPS	57.5000	2	28.7500	0.3538	-0.3485
	M	20.000	15.000	2	2	22.500	19.000	WITHIN GROUPS	162.5000	2	81.2500		
	SD	0.0	7.071	10.607	10.607	7.416	7.416	TOTAL	220.0000	4			
28	N	12					107	BETWEEN GROUPS	81.3214	2	40.6607	0.7082	-0.0055
	M	22.167	24.570	16	16	25.500	24.439	WITHIN GROUPS	5971.0338	104	57.4138		
	SD	9.456	7.096	8.406	8.406	7.556	7.556	TOTAL	6052.3551	106			
29	N	11					105	BETWEEN GROUPS	40.6435	2	20.3217	0.4602	-0.0104
	M	27.000	27.833	16	16	29.312	27.971	WITHIN GROUPS	4504.2708	102	44.1595		
	SD	8.124	6.431	6.630	6.630	6.611	6.611	TOTAL	4544.9143	104			
30	N	12					107	BETWEEN GROUPS	57.4307	2	28.7153	0.3998	-0.0113
	M	28.833	27.975	16	16	30.000	28.374	WITHIN GROUPS	7469.6160	104	71.8232		
	SD	10.179	7.987	9.501	9.501	8.427	8.427	TOTAL	7527.0467	106			
31	N	11					107	BETWEEN GROUPS	67.0558	2	33.5279	0.7676	-0.0044
	M	21.636	22.512	16	16	24.500	22.720	WITHIN GROUPS	4542.5330	104	43.6782		
	SD	5.836	6.574	7.248	7.248	6.594	6.594	TOTAL	4609.5888	106			
32	N	12					94	BETWEEN GROUPS	239.0238	2	119.5119	2.4633	0.0302
	M	18.500	21.147	14	14	24.500	21.309	WITHIN GROUPS	4415.0294	91	48.5168		
	SD	8.285	6.242	8.985	8.985	7.074	7.074	TOTAL	4654.0532	93			
33	N	6					70	BETWEEN GROUPS	32.4280	2	16.2140	0.5661	-0.0126
	M	22.833	21.115	12	12	22.583	21.514	WITHIN GROUPS	1919.0577	67	28.6427		
	SD	8.010	4.378	7.513	7.513	5.318	5.318	TOTAL	1951.4857	69			
34	N	4					58	BETWEEN GROUPS	2.9648	2	1.4824	0.0438	-0.0341
	M	21.500	21.756	9	9	22.333	21.828	WITHIN GROUPS	1859.3111	55	33.8057		
	SD	4.435	5.970	5.385	5.385	5.716	5.716	TOTAL	1862.2759	57			
35	N	4					44	BETWEEN GROUPS	119.7914	2	59.8957	1.8716	0.0381
	M	24.000	22.235	6	6	27.000	23.045	WITHIN GROUPS	1312.1176	41	32.0029		
	SD	4.243	5.836	5.177	5.177	5.771	5.771	TOTAL	1431.9091	43			
36	N	3					34	BETWEEN GROUPS	14.1145	2	7.0573	0.2366	-0.0470
	M	25.667	24.440	6	6	26.000	24.824	WITHIN GROUPS	924.8267	31	29.8331		
	SD	4.041	5.731	4.561	4.561	5.334	5.334	TOTAL	938.9412	33			



LLOYD 1-14: READING DEFICIENCY ANALYSIS OF VARIANCE RUNS

LLOYD 1-140: NEGRO MALES - Low IQ

J	N	M	SD	1	2	3	TOTAL	SOURCE	SUM OF SQUARES	DF	MEAN SQUARE	F RATIO	OMEGA S0
37	N	11					97	BETWEEN GROUPS	229.8213	2	114.9107	1.3299	0.0068
	M	78.091		71	75.549	79.533	76.454	WITHIN GROUPS	8122.2199	94	86.4066		
	SD	10.261		8.996	10.013	9.327		TOTAL	8352.0412	96			
38	N	4					51	BETWEEN GROUPS	51.4040	2	25.7020	0.2438	-0.0306
	M	76.000		39	78.718	80.375	78.765	WITHIN GROUPS	5059.7724	48	105.4119		
	SD	9.416		10.105	11.426	10.111		TOTAL	5111.1765	50			
39	N	2					28	BETWEEN GROUPS	3.1690	2	1.5845	0.7777	-0.0161
	M	3.500		21	3.524	4.400	3.679	WITHIN GROUPS	50.9381	25	2.0375		
	SD	0.707		1.401	1.673	1.416		TOTAL	54.1071	27			
40	N	9					79	BETWEEN GROUPS	103.8915	2	51.9457	0.8456	-0.0039
	M	40.111		60	38.650	42.000	39.241	WITHIN GROUPS	4668.5389	76	61.4281		
	SD	9.400		7.494	8.485	7.822		TOTAL	4772.4304	78			
41	N	10					83	BETWEEN GROUPS	184.2979	2	92.1490	1.0977	0.0023
	M	41.200		62	41.823	46.091	42.313	WITHIN GROUPS	6715.5575	80	83.9445		
	SD	9.402		8.848	10.700	9.173		TOTAL	6899.8554	82			
42	N	8					67	BETWEEN GROUPS	684.5093	2	342.2547	3.6702	0.0736
	M	32.375		50	36.720	44.556	37.254	WITHIN GROUPS	5968.1772	64	93.2528		
	SD	5.263		10.321	8.323	10.040		TOTAL	6652.6866	66			
43	N	9					80	BETWEEN GROUPS	13.4695	2	6.7348	0.1118	-0.0227
	M	46.556		62	46.903	48.111	47.000	WITHIN GROUPS	4638.5305	77	60.2407		
	SD	6.366		7.355	11.263	7.674		TOTAL	4652.0000	79			
44	N	9					76	BETWEEN GROUPS	42.1076	2	21.0538	-0.5460	-0.0121
	M	40.778		57	40.579	42.800	40.895	WITHIN GROUPS	2815.0503	73	38.5623		
	SD	7.102		5.855	7.391	6.172		TOTAL	2857.1579	75			
45	N	2					14	BETWEEN GROUPS	183.0476	2	91.5238	0.5198	-0.0736
	M	59.000		9	48.667	48.667	50.143	WITHIN GROUPS	1936.6667	11	176.0606		
	SD	0.0		12.430	18.717	12.769		TOTAL	2119.7143	13			
46	N	2					14	BETWEEN GROUPS	178.1349	2	89.0675	0.3136	-0.1087
	M	62.000		9	54.556	62.000	57.214	WITHIN GROUPS	3124.2222	11	284.0202		
	SD	7.071		15.076	25.060	15.938		TOTAL	3302.3571	13			
47	N	2					14	BETWEEN GROUPS	136.1111	2	68.0556	0.3733	-0.0983
	M	60.500		9	51.556	54.667	53.500	WITHIN GROUPS	2005.3889	11	182.3081		
	SD	3.536		11.865	20.817	12.835		TOTAL	2141.5000	13			
48	N	7					64	BETWEEN GROUPS	6.0444	2	3.0222	0.2529	-0.0239
	M	6.286		46	6.000	6.818	6.172	WITHIN GROUPS	729.0649	61	11.9519		
	SD	4.071		3.148	4.285	3.416		TOTAL	735.1094	63			

LLOYD 1-14: READING DEFICIENCY ANALYSIS OF VARIANCE RUNS

LLOYD 1-140: NEGRO MALES - Low IQ

J	N	M	SD	1	2	3	TOTAL	SOURCE	SUM OF SQUARES	DF	MEAN SQUARE	F RATIO	OMEGA SQ
49	7	4.143	3.078	48	12	67	67	BETWEEN GROUPS	42.7072	2	21.3536	2.1423	0.0330
	64	6.062	7.250	6.075	64	637.9196	64	WITHIN GROUPS	637.9196	64	9.9675		
	66	3.097	3.441	3.211	66	683.6269	66	TOTAL	683.6269	66			
50	6	6.667	1.366	48	13	67	67	BETWEEN GROUPS	29.6524	2	14.8262	1.8247	0.0240
	64	4.958	6.308	4.958	64	520.0192	64	WITHIN GROUPS	520.0192	64	8.1253		
	66	2.790	3.473	2.886	66	549.6716	66	TOTAL	549.6716	66			
51	7	6.143	3.132	49	12	68	68	BETWEEN GROUPS	0.8547	2	0.4274	0.0385	-0.0291
	65	5.816	6.000	5.882	65	722.2041	65	WITHIN GROUPS	722.2041	65	11.1108		
	67	3.206	3.931	3.285	67	723.0588	67	TOTAL	723.0588	67			
52	7	4.857	2.340	49	11	67	67	BETWEEN GROUPS	47.8952	2	23.9476	3.2660	0.0634
	64	6.673	8.182	6.731	64	469.2690	64	WITHIN GROUPS	469.2690	64	7.3323		
	66	2.528	3.601	2.799	66	517.1642	66	TOTAL	517.1642	66			
53	7	7.000	3.830	48	11	66	66	BETWEEN GROUPS	33.5511	2	16.7756	0.9834	-0.0005
	63	6.521	8.455	6.894	63	1074.7064	63	WITHIN GROUPS	1074.7064	63	17.0588		
	65	4.032	4.719	4.129	65	1108.2576	65	TOTAL	1108.2576	65			
54	7	4.857	2.410	46	11	64	64	BETWEEN GROUPS	26.2176	2	13.1088	2.0444	0.0316
	61	3.304	4.636	3.703	61	391.1417	61	WITHIN GROUPS	391.1417	61	6.4122		
	63	2.250	3.585	2.574	63	417.3594	63	TOTAL	417.3594	63			
55	7	5.571	2.440	45	13	65	65	BETWEEN GROUPS	34.9695	2	17.4847	1.8233	0.0247
	62	4.778	6.615	5.231	62	594.5690	62	WITHIN GROUPS	594.5690	62	9.5898		
	64	2.976	3.754	3.136	64	629.5385	64	TOTAL	629.5385	64			
56	7	6.143	3.237	42	11	60	60	BETWEEN GROUPS	6.5504	2	3.2752	0.3476	-0.0222
	57	5.333	4.909	5.350	57	537.0996	57	WITHIN GROUPS	537.0996	57	9.4228		
	59	3.034	3.113	3.036	59	543.6500	59	TOTAL	543.6500	59			
57	14	88.071	3.125	86	18	118	118	BETWEEN GROUPS	5431.2107	2	2715.6053	120.3891	0.6693
	115	98.884	113.611	99.847	115	2594.0436	115	WITHIN GROUPS	2594.0436	115	22.5569		
	117	4.641	6.118	8.282	117	8025.2542	117	TOTAL	8025.2542	117			

LLUYD 1-14: READING DEFICIENCY ANALYSIS OF VARIANCE RUNS

LLUYD 1-14: NEGRO FEMALES - High SES

J	N	M	SD	1	2	3	TOTAL	SOURCE	SUM OF SQUARES	DF	MEAN SQUARE	F-RATIO	MEAN SQUARE	U-MEAS SQ
1	N	M	SD	5	48	13	66	BETWEEN GROUPS	30.7231	2	15.3615	0.1842	15.3615	-0.0253
				142.385	140.917	142.385	141.333	WITHIN GROUPS	5284.5667	63	83.3959		83.3959	
				11.899	7.205	11.899	9.017	TOTAL		65				
2	N	M	SD	5	47	13	55	BETWEEN GROUPS	5.9391	2	2.9695	1.2587	2.9695	0.0079
				3.923	4.660	3.923	4.477	WITHIN GROUPS	146.2763	62	2.3593		2.3593	
				1.891	1.372	1.891	1.542	TOTAL	152.2154	64				
3	N	M	SD	5	46	13	64	BETWEEN GROUPS	0.9478	2	0.4739	0.2003	0.4739	-0.0256
				4.308	4.370	4.308	4.391	WITHIN GROUPS	144.2866	61	2.3654		2.3654	
				1.750	1.511	1.750	1.518	TOTAL	145.2344	63				
4	N	M	SD	5	48	13	66	BETWEEN GROUPS	5.0874	2	2.5437	0.2842	2.5437	-0.0222
				3.462	4.167	3.462	4.015	WITHIN GROUPS	503.8974	63	8.9508		8.9508	
				2.817	3.027	2.817	2.959	TOTAL	568.9848	65				
5	N	M	SD	5	47	13	65	BETWEEN GROUPS	1.2484	2	0.6242	0.8267	0.6242	-0.0054
				4.615	4.745	4.615	4.754	WITHIN GROUPS	46.8131	62	0.7550		0.7550	
				1.121	0.820	1.121	0.867	TOTAL	48.0615	64				
6	N	M	SD	5	48	13	66	BETWEEN GROUPS	1.3106	2	0.6553	1.7676	0.6553	0.0227
				3.385	3.729	3.385	3.667	WITHIN GROUPS	23.3501	63	0.3707		0.3707	
				0.870	0.536	0.870	0.616	TOTAL	24.5667	65				
7	N	M	SD	5	46	10	61	BETWEEN GROUPS	241.9833	2	120.9916	3.9806	120.9916	0.0690
				22.500	19.348	22.500	19.426	WITHIN GROUPS	1762.9348	58	30.3954		30.3954	
				4.249	5.638	4.249	5.781	TOTAL	2004.9180	60				
8	N	M	SD	5	48	13	66	BETWEEN GROUPS	177.8204	2	88.9102	0.3446	88.9102	-0.0203
				91.462	88.229	91.462	88.621	WITHIN GROUPS	16255.7099	63	258.0271		258.0271	
				18.915	15.335	18.915	15.900	TOTAL	16433.5303	65				
9	N	M	SD	4	38	9	51	BETWEEN GROUPS	32.8705	2	16.4352	6.8709	16.4352	0.1871
				4.333	2.289	4.333	2.745	WITHIN GROUPS	114.8158	48	2.3920		2.3920	
				0.179	1.313	0.179	1.719	TOTAL	147.6863	50				
10	N	M	SD	4	42	9	55	BETWEEN GROUPS	3.6955	2	1.8478	1.0111	1.8478	0.0004
				2.778	2.524	2.778	2.636	WITHIN GROUPS	95.0317	52	1.8275		1.8275	
				0.833	1.330	0.833	1.352	TOTAL	98.7273	54				
11	N	M	SD	3	41	8	52	BETWEEN GROUPS	3.7337	2	1.8668	1.8012	1.8668	0.0299
				2.625	2.512	2.625	2.596	WITHIN GROUPS	50.7856	49	1.0364		1.0364	
				1.302	0.978	1.302	1.034	TOTAL	54.5192	51				
12	N	M	SD	5	40	9	54	BETWEEN GROUPS	4.0444	2	2.0222	1.5327	2.0222	0.0193
				3.111	2.400	3.111	2.556	WITHIN GROUPS	67.2889	51	1.3194		1.3194	
				1.691	1.057	1.691	1.160	TOTAL	71.3333	53				

LLOYD 1-14: READING DEFICIENCY ANALYSIS OF VARIANCE RUNS

LLOYD 1-14B: NEGRO FEMALES - High SES

J	N	M	SU	1	2	3	TOTAL	SOURCE	SUM OF SQUARES	DF	MEAN SQUARE	F RATIO	UMEGA SQ
13	N	M	SU	4	24	7	35	BETWEEN GROUPS	763.8988	2	391.9494	4.6275	0.1717
				26.500	34.208	43.286	35.143	WITHIN GROUPS	2710.3869	32	84.6996		
				13.626	9.132	6.264	10.138	TOTAL	3494.2857	34			
14	N	M	SU	5	41	13	59	BETWEEN GROUPS	5380.5042	2	2690.2521	26.7779	0.4663
				27.800	45.463	63.385	47.915	WITHIN GROUPS	5626.0720	56	100.4656		
				4.444	10.385	10.129	13.776	TOTAL	11006.5763	58			
15	N	M	SU	3	44	10	57	BETWEEN GROUPS	0.3103	2	0.1551	0.6348	-0.0130
				2.333	2.614	2.700	2.614	WITHIN GROUPS	13.1985	54	0.2444		
				0.577	0.493	0.483	0.491	TOTAL	13.5088	56			
16	N	M	SU	5	41	13	59	BETWEEN GROUPS	2808.5861	2	1404.2931	11.9191	0.2701
				42.800	54.439	67.923	56.424	WITHIN GROUPS	6597.8206	56	117.8182		
				8.044	9.857	14.297	12.735	TOTAL	9406.4068	58			
17	N	M	SU	3	31	7	41	BETWEEN GROUPS	537.7049	2	268.8525	0.9628	-0.0018
				88.333	96.774	103.714	97.341	WITHIN GROUPS	10611.5146	38	279.2504		
				20.207	15.682	20.072	16.695	TOTAL	11149.2195	40			
18	N	M	SU	5	48	13	66	BETWEEN GROUPS	4302.8542	2	2151.4271	27.2809	0.4433
				33.000	49.313	65.000	51.167	WITHIN GROUPS	4968.3125	63	78.8621		
				6.671	8.627	10.376	11.943	TOTAL	9271.1667	65			
19	N	M	SU	5	47	13	65	BETWEEN GROUPS	796.9938	2	398.4969	6.7815	0.1510
				48.600	54.489	61.769	55.492	WITHIN GROUPS	3643.2524	62	58.7621		
				8.112	7.471	8.228	8.329	TOTAL	4440.2462	64			
20	N	M	SU	5	46	13	64	BETWEEN GROUPS	1031.2626	2	515.6313	8.8035	0.1961
				47.800	55.304	63.231	56.328	WITHIN GROUPS	3572.8468	61	58.5713		
				9.094	7.814	6.418	8.549	TOTAL	4604.1094	63			
21	N	M	SU	4	47	13	64	BETWEEN GROUPS	240.1097	2	120.0548	1.8674	0.0264
				23.750	29.915	32.538	30.063	WITHIN GROUPS	3921.6403	61	64.2892		
				7.676	8.206	7.344	8.128	TOTAL	4161.7500	63			
22	N	M	SU	4	47	13	64	BETWEEN GROUPS	374.8495	2	187.4248	2.7645	0.0523
				23.250	29.957	33.923	30.344	WITHIN GROUPS	4135.5880	61	67.7965		
				6.954	8.343	8.098	8.461	TOTAL	4510.4375	63			
23	N	M	SU	4	44	11	59	BETWEEN GROUPS	430.7072	2	215.3536	4.3587	0.1022
				21.250	30.841	33.273	30.644	WITHIN GROUPS	2766.8182	56	49.4075		
				5.058	7.159	6.973	7.425	TOTAL	3197.5254	58			
24	N	M	SU	4	47	13	64	BETWEEN GROUPS	266.1499	2	133.0749	1.7884	0.0240
				20.250	28.021	29.462	27.828	WITHIN GROUPS	4538.9595	61	74.4092		
				7.411	8.751	8.422	8.733	TOTAL	4805.1094	63			

LLJYD 1-14: READING DEFICIENCY ANALYSIS OF VARIANCE RUNS

LLJYD 1-14B: NEGRO FEMALES - High SES

J	N	1	2	3	TOTAL	SOURCE	SUM OF SQUARES	DF	MEAN SQUARE	F RATIO	OMEGA SQ
25	N	0	24	2	26	BETWEEN GROUPS	27.7212	1	27.7212	0.5251	-0.0267
	M	0.0	28.875	25.000	28.577	WITHIN GROUPS	2046.6250	24	85.2760		
	SD	0.0	9.317	7.071	9.109	TOTAL	2074.3462	25			
26	N	4	47	12	63	BETWEEN GROUPS	267.2554	2	143.6277	2.8030	0.0541
	M	28.250	33.979	37.667	34.317	WITHIN GROUPS	3074.3954	60	51.2399		
	SD	6.131	7.571	5.433	7.363	TOTAL	3361.6508	62			
27	N	0	10	8	18	BETWEEN GROUPS	0.9000	1	0.9000	0.0080	-0.0583
	M	0.0	30.800	31.250	31.000	WITHIN GROUPS	1791.1000	16	111.9437		
	SD	0.0	9.976	11.311	10.267	TOTAL	1792.0000	17			
28	N	4	46	13	63	BETWEEN GROUPS	272.7421	2	136.3711	2.2212	0.0373
	M	29.500	35.978	38.846	36.159	WITHIN GROUPS	3683.5706	60	61.3945		
	SD	6.658	7.965	7.614	7.988	TOTAL	3956.4127	62			
29	N	4	46	13	63	BETWEEN GROUPS	132.7344	2	66.3672	0.9668	-0.0011
	M	30.000	35.826	36.231	35.540	WITHIN GROUPS	4118.9164	60	68.6486		
	SD	8.165	8.182	8.691	8.281	TOTAL	4251.6508	62			
30	N	4	45	12	61	BETWEEN GROUPS	579.6047	2	289.8024	2.7822	0.0552
	M	23.250	32.222	36.917	32.557	WITHIN GROUPS	6041.4444	58	104.1628		
	SD	10.751	10.410	9.180	10.505	TOTAL	6621.0492	60			
31	N	4	48	11	63	BETWEEN GROUPS	291.1714	2	145.5857	1.5406	0.0169
	M	26.000	32.042	35.727	32.302	WITHIN GROUPS	5670.0985	60	94.5016		
	SD	8.124	9.625	10.555	9.806	TOTAL	5961.2698	62			
32	N	3	47	10	60	BETWEEN GROUPS	696.0475	2	348.0238	3.8393	0.0865
	M	21.333	31.556	37.900	32.133	WITHIN GROUPS	5166.8858	57	90.6471		
	SD	9.815	9.514	9.492	9.969	TOTAL	5862.9333	59			
33	N	2	45	10	57	BETWEEN GROUPS	406.8193	2	203.4096	2.0753	0.0364
	M	23.500	30.267	36.200	31.070	WITHIN GROUPS	5292.9000	54	98.0167		
	SD	2.121	10.319	8.189	10.089	TOTAL	5699.7193	56			
34	N	2	41	10	53	BETWEEN GROUPS	292.7900	2	146.3950	2.0573	0.0364
	M	24.000	29.049	34.300	29.849	WITHIN GROUPS	3558.0024	50	71.1600		
	SD	5.657	8.789	6.961	8.605	TOTAL	3850.7925	52			
35	N	1	31	9	41	BETWEEN GROUPS	2.9029	2	1.4514	0.0249	-0.0499
	M	32.000	30.290	30.444	30.366	WITHIN GROUPS	2214.5093	38	58.2792		
	SD	0.0	7.249	8.932	7.446	TOTAL	2217.5122	40			
36	N	1	28	7	36	BETWEEN GROUPS	73.8929	2	36.9464	0.7023	-0.0168
	M	22.000	29.179	31.000	29.333	WITHIN GROUPS	1756.1071	33	52.6093		
	SD	0.0	7.498	6.028	7.191	TOTAL	1810.0000	35			

LLJYU 1-14: READING DEFICIENCY ANALYSIS OF VARIANCE RUNS

LLJYU 1-148: NEGRU FEMALES - High SES

J	N	M	SD	1	2	3	TOTAL	SOURCE	SUM OF SQUARES	DF	MEAN SQUARE	F RATIO	OMEGA SQ
37	4	75.000	14.376	41	87.634	96.091	56	BETWEEN GROUPS	1392.9359	2	696.4679	5.5189	0.1390
					11.115	10.616	88.393	WITHIN GROUPS	6688.4213	53	126.1966		
							12.122	TOTAL	8081.3571	55			
38	2	89.500	0.707	39	90.000	97.300	51	BETWEEN GROUPS	431.7529	2	215.8765	1.8076	0.0307
					11.143	10.615	91.412	WITHIN GROUPS	5732.6000	48	119.4292		
							11.103	TOTAL	6164.3529	50			
39	1	4.000	0.0	25	3.480	3.875	34	BETWEEN GROUPS	1.1203	2	0.5601	0.5581	-0.0267
					1.046	0.835	3.588	WITHIN GROUPS	31.1150	31	1.0037		
							0.988	TOTAL	32.2353	33			
40	3	44.667	7.234	32	49.969	56.100	45	BETWEEN GROUPS	414.4424	2	207.2212	1.6646	0.0287
					11.619	10.214	50.978	WITHIN GROUPS	5228.5354	42	124.4889		
							11.325	TOTAL	5642.9778	44			
41	3	46.667	18.771	33	61.000	62.667	45	BETWEEN GROUPS	623.9111	2	311.9556	1.5977	0.0259
					13.736	13.500	60.378	WITHIN GROUPS	8200.5667	42	195.2540		
							14.162	TOTAL	8824.5778	44			
42	3	40.333	13.796	30	55.433	53.222	42	BETWEEN GROUPS	626.8159	2	313.4079	1.0590	0.0028
					15.999	21.615	53.881	WITHIN GROUPS	11541.5889	39	295.9382		
							17.228	TOTAL	12168.4048	41			
43	3	46.333	2.517	32	54.781	55.556	44	BETWEEN GROUPS	211.8242	2	105.9121	0.9346	-0.0030
					10.493	12.350	54.364	WITHIN GROUPS	4646.3576	41	113.3258		
							10.629	TOTAL	4858.1818	43			
44	3	44.000	7.937	31	53.871	56.889	43	BETWEEN GROUPS	374.1389	2	187.0694	1.6459	0.0292
					10.516	11.741	53.814	WITHIN GROUPS	4546.3728	40	113.6593		
							10.824	TOTAL	4920.5116	42			
45	0	0.0	0.0	8	71.000	75.000	14	BETWEEN GROUPS	54.8571	1	54.8571	0.1447	-0.0651
					17.038	22.432	72.714	WITHIN GROUPS	4548.0000	12	379.0000		
							18.817	TOTAL	4602.8571	13			
46	0	0.0	0.0	8	70.625	72.667	14	BETWEEN GROUPS	14.2917	1	14.2917	0.0238	-0.0750
					21.179	28.465	71.500	WITHIN GROUPS	7191.2083	12	599.2674		
							23.543	TOTAL	7205.5000	13			
47	0	0.0	0.0	8	70.875	73.833	14	BETWEEN GROUPS	30.0060	1	30.0060	0.0682	-0.0713
					18.138	24.408	72.143	WITHIN GROUPS	5281.7083	12	440.1424		
							20.214	TOTAL	5311.7143	13			
48	2	8.000	1.414	41	7.707	9.200	53	BETWEEN GROUPS	17.9122	2	8.9561	0.8082	-0.0073
					3.363	3.327	8.000	WITHIN GROUPS	554.0878	50	11.0818		
							3.317	TOTAL	572.0000	52			

LLJYD 1-14: READING DEFICIENCY ANALYSIS OF VARIANCE KUNS

LLJYD 1-148: NEGRO FEMALES - High SES

J	N	M	SD	1	2	3	TOTAL	SOURCE	SUM DF	SQUARES	DF	MEAN SQUARE	F RATIO	UMEGA
49	2	3.500	3.536	10	42	10	54	BETWEEN GROUPS	37.9101		2	18.9550	1.1853	0.0068
				7.000	7.786	7.000	7.481	WITHIN GROUPS	815.5714		51	15.9916		
				3.162	4.170	3.162	4.013	TOTAL	853.4815		53			
50	2	10.000	2.828	10	42	10	54	BETWEEN GROUPS	67.0402		2	33.5201	1.9507	0.0340
				12.800	9.929	12.800	10.463	WITHIN GROUPS	876.3857		51	17.1840		
				5.613	3.777	5.613	4.219	TOTAL	943.4259		53			
51	2	3.500	0.707	10	41	10	53	BETWEEN GROUPS	26.2912		2	13.1456	0.9303	-0.0026
				7.200	7.195	7.200	7.057	WITHIN GROUPS	706.5390		50	14.1308		
				3.266	3.378	3.266	3.754	TOTAL	732.8302		52			
52	2	7.500	0.707	10	42	10	54	BETWEEN GROUPS	70.3989		2	35.1995	2.4130	0.0497
				11.600	8.786	11.600	9.259	WITHIN GROUPS	743.9714		51	14.5877		
				3.806	3.867	3.806	3.920	TOTAL	814.3704		53			
53	2	7.000	5.657	10	41	10	53	BETWEEN GROUPS	8.1016		2	4.0508	0.2062	-0.0309
				7.400	6.415	7.400	6.623	WITHIN GROUPS	982.3512		50	19.6470		
				5.461	4.129	5.461	4.364	TOTAL	990.4528		52			
54	2	3.000	0.0	10	41	10	53	BETWEEN GROUPS	107.6243		2	53.8121	3.7979	0.0955
				9.500	6.415	9.500	6.888	WITHIN GROUPS	708.4512		50	14.1690		
				4.403	3.654	4.403	3.962	TOTAL	816.0755		52			
55	2	8.500	0.707	10	40	10	52	BETWEEN GROUPS	80.7558		2	40.3779	2.6884	0.0603
				10.800	7.625	10.800	8.269	WITHIN GROUPS	741.4750		49	15.1321		
				3.824	3.953	3.824	4.015	TOTAL	822.2308		51			
56	1	8.000	0.0	10	40	10	51	BETWEEN GROUPS	70.3368		2	38.1684	2.2813	0.0476
				11.300	8.225	11.300	8.824	WITHIN GROUPS	803.0750		48	16.7307		
				4.809	3.906	4.809	4.194	TOTAL	879.4118		50			
57	5	85.000	5.612	13	48	13	66	BETWEEN GROUPS	3440.2990		2	1723.1495	94.5066	0.7391
				113.692	99.708	113.692	101.348	WITHIN GROUPS	1148.6859		63	18.2331		
				3.301	4.356	3.301	8.408	TOTAL	4594.9848		65			

LLJYD 1-14: READING DEFICIENCY ANALYSIS OF VARIANCE RUNS

LLJYD 1-14C: NEGRO FEMALES - Low SES

NO OF VARIABLES = 57 CLASSIFICATION VAR = # 57 WITH ELIMINATION CODE FOR CLAS. VAR = 999.000

CLAS CATEGORY UPPER LIMITS = 91.000, 108.000, 950.000, 0.0 , 0.0 , 0.0 , 0.0 , 0.0 , 0.0 , 0.0 ,

RESTRICTION VAR = # 6 WITH RANGE OF 5.000 TO 5.000

CODES TO BE EXCLUDED FOR VARS 1 TO 57 ARE 0.0 , 0.0 , 0.0 , 0.0 , 0.0 , 0.0 , -9.000, 0.0 , 0.0 , 0.0 ,
0.0 , 0.0 , 0.0 , 0.0 , 0.0 , 0.0 , 0.0 , 1.000, 0.0 , 0.0 , 0.0 ,
0.0 , 0.0 , 0.0 , 0.0 , 0.0 , 0.0 , 0.0 , 0.0 , 0.0 , 0.0 ,
0.0 , 0.0 , 0.0 , 0.0 , 0.0 , 0.0 , 0.0 , 0.0 , 0.0 , 0.0 ,

FORMAT OF DATA IS (57F6.0)

MAX # OF OBS TO BE INCLUDED THIS PROBLEM = 259 DATA TO BE READ FROM TAPE WITHOUT REWIND

GROUP 1 - UNDERACHIEVERS

GROUP 2 - AVERAGE ACHIEVERS

GROUP 3 - OVERACHIEVERS

LLOYD 1-14: READING DEFICIENCY ANALYSIS OF VARIANCE RUNS

LLOYD 1-14C: NEGRO FEMALES - Low SES

J	N	1	2	3	TOTAL	SOURCE	SUM OF SQUARES	DF	MEAN SQUARE	F RATIO	UMEGA SQ
1	M	15	88	13	116	BETWEEN GROUPS	755.3987	2	377.6993	3.3748	0.0393
	M	146.200	142.307	149.846	143.655	WITHIN GROUPS	12046.8062	113	111.9187		
	SU	14.972	9.666	10.723	10.795	TOTAL	13402.2069	115			
2	M	14	84	13	111	BETWEEN GROUPS	0.2326	2	0.1163	0.1786	-0.0150
	M	5.714	5.555	5.538	5.604	WITHIN GROUPS	70.3260	108	0.6512		
	SU	0.726	0.808	0.877	0.801	TOTAL	70.5586	110			
3	M	15	83	13	111	BETWEEN GROUPS	0.0535	2	0.2628	0.2603	-0.0135
	M	5.200	5.241	5.000	5.207	WITHIN GROUPS	135.5807	108	1.2554		
	SU	1.014	1.066	1.528	1.113	TOTAL	136.2342	110			
4	M	15	88	13	116	BETWEEN GROUPS	1.6973	2	0.9486	0.1229	-0.0154
	M	4.533	5.023	4.615	4.966	WITHIN GROUPS	871.9648	113	7.7165		
	SU	2.738	2.729	3.150	2.757	TOTAL	873.8621	115			
5	M	15	85	13	113	BETWEEN GROUPS	0.4767	2	0.2383	0.6889	-0.0055
	M	0.800	0.682	6.538	6.681	WITHIN GROUPS	38.0543	110	0.3459		
	SU	0.775	0.561	0.519	0.587	TOTAL	38.5310	112			
6	M	15	88	13	116	BETWEEN GROUPS	0.0	0	0.0	0.0	0.0
	M	5.000	5.000	5.000	5.000	WITHIN GROUPS	0.0	0	0.0		
	SU	0.0	0.0	0.0	0.0	TOTAL	0.0	0			
7	M	14	87	13	114	BETWEEN GROUPS	123.1144	2	61.5572	2.0319	0.0178
	M	18.214	19.463	22.308	19.649	WITHIN GROUPS	3362.8505	111	30.2960		
	SU	5.041	5.500	5.991	5.554	TOTAL	3485.9649	113			
8	M	15	88	13	116	BETWEEN GROUPS	421.8052	2	210.9026	0.8763	-0.0021
	M	85.467	88.048	83.154	87.621	WITHIN GROUPS	27197.5052	113	240.6859		
	SU	16.860	14.284	19.295	15.497	TOTAL	27619.3103	115			
9	M	13	72	10	95	BETWEEN GROUPS	5.0685	2	2.5343	0.9946	-0.0001
	M	3.615	2.980	2.700	3.042	WITHIN GROUPS	262.1630	92	2.8496		
	SU	2.103	1.570	1.947	1.688	TOTAL	267.2316	94			
10	M	13	76	11	100	BETWEEN GROUPS	5.9875	2	2.9947	1.0523	0.0010
	M	3.231	2.724	3.364	2.860	WITHIN GROUPS	276.0505	97	2.8459		
	SU	2.048	1.537	2.203	1.688	TOTAL	282.0380	99			
11	M	15	77	10	102	BETWEEN GROUPS	1.8140	2	0.9070	0.3789	-0.0123
	M	3.153	2.779	3.000	2.853	WITHIN GROUPS	236.9801	99	2.3937		
	SU	1.125	1.576	1.828	1.538	TOTAL	238.7941	101			
12	M	14	81	11	106	BETWEEN GROUPS	17.5709	2	8.7854	4.7956	0.0668
	M	3.400	2.321	3.273	2.547	WITHIN GROUPS	188.6933	103	1.8320		
	SU	1.604	1.340	1.616	1.402	TOTAL	206.2642	105			

LLJYD 1-14: READING DEFICIENCY ANALYSIS OF VARIANCE RUNS

LLJYD 1-14C: NEGRO FEMALES - Low SES

J	1	2	3	TOTAL	SOURCE	SUM OF SQUARES	DF	MEAN SQUARE	F RATIO	OMEGA SQ
13	14 50.357 5.704	54 55.500 7.628	2 57.000 8.485	70 54.514 7.533	BETWEEN GROUPS WITHIN GROUPS TOTAL	306.7714 3608.7143 3515.4857	2 67 69	153.3857 53.8614	2.8478	0.0501
14	12 50.462 10.485	71 46.263 11.494	12 57.417 13.097	96 45.521 13.432	BETWEEN GROUPS WITHIN GROUPS TOTAL	4685.8954 12454.0629 17139.9583	2 93 95	2342.9477 133.9147	17.4958	0.2558
15	12 2.417 0.515	70 2.624 0.516	6 2.500 0.548	88 2.591 0.517	BETWEEN GROUPS WITHIN GROUPS TOTAL	0.5132 22.7595 23.2727	2 85 87	0.2566 0.2678	0.9583	-0.0009
16	12 40.538 10.829	71 53.234 8.195	12 65.417 14.387	96 53.042 11.359	BETWEEN GROUPS WITHIN GROUPS TOTAL	3872.7563 8385.0770 12257.8333	2 93 95	1936.3782 90.1621	21.4766	0.2990
17	5 84.778 16.917	64 90.820 15.157	7 94.000 20.396	80 90.425 15.770	BETWEEN GROUPS WITHIN GROUPS TOTAL	386.8851 19258.6649 19645.5500	2 77 79	193.4425 250.1125	0.7734	-0.0057
18	15 55.153 9.694	88 49.193 9.040	13 59.154 11.473	116 48.491 11.113	BETWEEN GROUPS WITHIN GROUPS TOTAL	4197.8498 10005.1416 14202.9914	2 113 115	2098.9249 88.5411	23.7057	0.2813
19	15 47.553 9.054	88 54.443 7.907	12 55.167 8.310	115 53.617 8.372	BETWEEN GROUPS WITHIN GROUPS TOTAL	644.0493 7347.1159 7991.1652	2 112 114	322.0247 65.5992	4.9090	0.0637
20	15 48.153 10.629	88 57.023 8.878	13 58.077 11.842	116 55.991 9.868	BETWEEN GROUPS WITHIN GROUPS TOTAL	1076.3804 10122.6110 11198.9914	2 113 115	538.1902 89.5806	6.0079	0.0795
21	14 27.143 8.448	77 30.557 7.868	11 31.273 8.296	102 30.196 8.007	BETWEEN GROUPS WITHIN GROUPS TOTAL	155.6628 6320.4156 6476.0784	2 99 101	77.8314 63.8426	1.2191	0.0043
22	14 27.214 8.294	77 30.649 8.032	11 31.364 8.370	102 30.255 8.116	BETWEEN GROUPS WITHIN GROUPS TOTAL	154.9375 6498.4351 6653.3725	2 99 101	77.4687 65.6408	1.1802	0.0035
23	14 27.357 6.990	75 29.333 8.519	10 31.800 7.955	99 29.303 8.263	BETWEEN GROUPS WITHIN GROUPS TOTAL	115.4281 6575.4810 6690.9091	2 96 98	57.7141 68.4946	0.8426	-0.0032
24	14 23.143 7.804	77 28.571 7.604	11 25.813 10.235	102 27.529 8.096	BETWEEN GROUPS WITHIN GROUPS TOTAL	385.2040 6234.2078 6619.4118	2 99 101	192.6020 62.9718	3.0585	0.0388



LLJYD 1-1+0: READING DEFICIENCY ANALYSIS OF VARIANCE RUNS

LLJYD 1-1+0: NEGRO FEMALES - Low SES

J	N	1	2	3	TOTAL	SOURCE	SUM OF SQUARES	DF	MEAN SQUARE	F-KATIO	UMEGA SW
25	N	4	37	3	44	BETWEEN GROUPS	105.2222	2	52.6111	0.9743	-0.0012
	M	26.500	29.784	34.333	29.742	WITHIN GROUPS	2213.9369	41	53.9985		
	SU	11.818	6.852	7.234	7.344	TOTAL	2315.1591	43			
26	N	14	75	11	100	BETWEEN GROUPS	203.4693	2	101.7347	1.7725	0.0152
	M	29.571	33.707	32.036	33.010	WITHIN GROUPS	5557.5207	97	57.3971		
	SU	7.122	7.396	9.277	7.635	TOTAL	5770.9900	99			
27	N	1	8	0	9	BETWEEN GROUPS	1.0806	1	1.0806	0.0316	-0.1206
	M	35.000	30.375	0.0	36.222	WITHIN GROUPS	371.0750	7	53.1250		
	SU	0.0	7.289	0.0	6.833	TOTAL	373.5556	8			
28	N	14	76	11	101	BETWEEN GROUPS	141.8439	2	70.9219	1.2984	0.0059
	M	32.357	35.513	33.455	34.851	WITHIN GROUPS	5352.9284	98	54.6217		
	SU	7.366	7.541	6.154	7.413	TOTAL	5494.7723	100			
29	N	14	76	11	101	BETWEEN GROUPS	49.1854	2	24.5927	0.4820	-0.0104
	M	34.266	35.092	32.909	34.743	WITHIN GROUPS	5000.1215	98	51.0216		
	SU	7.640	6.880	8.312	7.106	TOTAL	5049.3069	100			
30	N	13	75	11	99	BETWEEN GROUPS	122.2357	2	61.1179	0.6581	-0.0070
	M	28.923	32.147	30.818	31.576	WITHIN GROUPS	2915.9461	96	92.8744		
	SU	11.982	9.194	9.683	9.603	TOTAL	9038.1818	98			
31	N	14	77	11	102	BETWEEN GROUPS	293.9497	2	146.9749	1.6793	0.0131
	M	28.714	33.117	35.000	32.716	WITHIN GROUPS	8654.8052	99	87.5233		
	SU	10.440	8.918	10.973	9.418	TOTAL	8958.7549	101			
32	N	14	73	11	98	BETWEEN GROUPS	400.0695	2	200.0347	2.2085	0.0241
	M	26.286	31.959	29.545	30.878	WITHIN GROUPS	8604.4611	95	90.5733		
	SU	9.269	9.253	11.501	9.635	TOTAL	9004.5306	97			
33	N	12	72	5	89	BETWEEN GROUPS	140.1361	2	73.0680	0.8407	-0.0036
	M	26.500	30.111	28.000	29.506	WITHIN GROUPS	7474.1111	86	86.9083		
	SU	9.606	9.317	8.602	9.306	TOTAL	7620.2472	88			
34	N	9	59	3	71	BETWEEN GROUPS	41.5013	2	20.7807	0.3872	-0.0176
	M	28.444	29.881	32.607	29.817	WITHIN GROUPS	3649.0584	68	53.6626		
	SU	9.396	7.100	3.055	7.261	TOTAL	3690.6197	70			
35	N	5	49	3	57	BETWEEN GROUPS	62.4305	2	31.2153	0.6973	-0.0107
	M	32.600	29.612	32.007	30.035	WITHIN GROUPS	2417.4993	54	44.7685		
	SU	6.768	6.645	7.572	6.655	TOTAL	2479.9298	56			
36	N	5	41	3	49	BETWEEN GROUPS	66.0285	2	33.0142	0.9115	-0.0036
	M	31.400	28.976	33.000	29.469	WITHIN GROUPS	1606.1756	46	36.2212		
	SU	6.618	5.824	8.185	6.007	TOTAL	1732.2041	48			

LLUYD 1-14: READING DEFICIENCY ANALYSIS OF VARIANCE RUNS

LLUYD 1-14C: NEGRO FEMALES - Low SES

LINE	N	1	2	3	TOTAL	SOURCE	SUM OF SQUARES	DF	MEAN SQUARE	F RATIO	OMEGA SQ
37	M	12	78	10	100	BETWEEN GROUPS	701.8295	2	350.9147	2.7463	0.0337
	M	80.583	88.346	90.200	87.600	WITHIN GROUPS	12394.1705	97	127.7750		
	SU	10.942	11.552	9.438	11.501	TOTAL	13096.0000	99			
38	N	10	56	3	69	BETWEEN GROUPS	259.2936	2	129.6468	1.4216	0.0121
	M	87.400	89.857	98.000	89.855	WITHIN GROUPS	6019.2571	66	91.2009		
	SU	8.449	9.732	9.165	9.609	TOTAL	6278.5507	68			
39	N	5	45	2	52	BETWEEN GROUPS	3.1645	2	1.5823	0.6784	-0.0125
	M	4.200	3.578	4.500	3.673	WITHIN GROUPS	114.2778	49	2.3322		
	SU	1.789	1.515	0.707	1.517	TOTAL	117.4423	51			
40	N	10	67	9	86	BETWEEN GROUPS	887.0035	2	443.5018	4.1086	0.0674
	M	44.300	48.657	57.550	49.081	WITHIN GROUPS	8959.4267	83	107.9449		
	SU	7.973	9.931	15.322	10.763	TOTAL	9846.4302	85			
41	N	11	69	10	90	BETWEEN GROUPS	4445.1193	2	2222.5597	8.8735	0.1489
	M	46.000	60.623	75.100	60.444	WITHIN GROUPS	21791.1029	87	250.4724		
	SU	13.914	16.413	13.008	17.169	TOTAL	26236.2222	89			
42	N	10	61	9	80	BETWEEN GROUPS	1158.2170	2	579.1085	1.8972	0.0219
	M	42.600	47.344	57.667	47.912	WITHIN GROUPS	23504.1705	77	305.2490		
	SU	21.277	16.952	16.538	17.609	TOTAL	24662.3875	79			
43	N	10	65	10	85	BETWEEN GROUPS	145.4851	2	72.7425	0.7442	-0.0061
	M	50.500	54.569	54.500	54.082	WITHIN GROUPS	8014.9385	82	97.7432		
	SU	9.455	9.884	10.320	9.856	TOTAL	8160.4235	84			
44	N	10	66	9	85	BETWEEN GROUPS	676.2109	2	335.1055	3.2335	0.0499
	M	45.700	51.864	57.550	51.741	WITHIN GROUPS	8498.0949	82	103.6353		
	SU	10.166	9.926	12.063	10.447	TOTAL	9168.3059	84			
45	N	3	24	0	27	BETWEEN GROUPS	370.7824	1	370.7824	0.7717	-0.0085
	M	54.000	65.752	0.0	64.481	WITHIN GROUPS	12011.9583	25	480.4783		
	SU	26.907	21.431	0.0	21.823	TOTAL	12382.7407	26			
46	N	3	24	0	27	BETWEEN GROUPS	361.3380	1	361.3380	1.5681	0.0206
	M	59.333	71.242	0.0	69.963	WITHIN GROUPS	6079.6250	25	243.1850		
	SU	16.802	15.479	0.0	15.764	TOTAL	6460.9630	26			
47	N	3	24	0	27	BETWEEN GROUPS	378.8852	1	378.8852	1.2918	0.0107
	M	56.667	68.583	0.0	67.259	WITHIN GROUPS	7328.5000	25	293.1400		
	SU	21.008	16.741	0.0	17.217	TOTAL	7707.1852	26			
48	N	12	65	6	83	BETWEEN GROUPS	27.3726	2	13.6863	1.2857	0.0068
	M	5.833	7.077	8.333	6.988	WITHIN GROUPS	851.6154	80	10.6452		
	SU	4.174	3.144	2.338	3.274	TOTAL	878.9880	82			



LLJYU 1-14: READING DEFICIENCY ANALYSIS OF VARIANCE RUNS

LLJYU 1-14C: NEGRO FEMALES - Low SES

J		1	2	3	TOTAL	SOURCE	SUM OF SQUARES	DF	MEAN SQUARE	F RATIO	JMEGA SQ
49	N	12	66	6	84	BETWEEN GROUPS	26.0216	2	13.0108	1.0506	0.0012
	M	5.167	6.576	5.333	6.286	WITHIN GROUPS	1003.1212	81	12.3842		
	SU	2.758	3.625	3.615	3.521	TOTAL	1029.1429	83			
51	N	12	66	6	84	BETWEEN GROUPS	65.2078	2	42.6039	2.7942	0.0410
	M	7.667	9.712	12.167	9.595	WITHIN GROUPS	1235.0303	81	15.2473		
	SU	4.376	3.757	4.622	3.988	TOTAL	1320.2381	83			
52	N	12	64	6	82	BETWEEN GROUPS	19.3638	2	9.6819	0.9467	-0.0013
	M	4.583	5.875	5.000	5.622	WITHIN GROUPS	807.9167	79	10.2268		
	SU	2.021	3.425	2.191	3.196	TOTAL	827.2805	81			
53	N	12	63	6	81	BETWEEN GROUPS	43.9572	2	21.9786	2.2555	0.0301
	M	7.750	8.127	10.833	8.272	WITHIN GROUPS	760.0675	78	9.7445		
	SU	2.864	3.129	3.545	3.170	TOTAL	804.0247	80			
54	N	12	64	6	82	BETWEEN GROUPS	47.4038	2	23.7019	1.6333	0.0152
	M	5.333	7.109	6.500	6.951	WITHIN GROUPS	1148.4010	79	14.5114		
	SU	3.798	3.577	6.025	3.839	TOTAL	1193.8049	81			
55	N	12	65	6	83	BETWEEN GROUPS	108.9648	2	54.2324	3.9588	0.0666
	M	4.750	7.046	9.833	6.916	WITHIN GROUPS	1095.9449	80	13.6993		
	SU	3.306	3.642	5.037	3.832	TOTAL	1204.4096	82			
55	N	12	62	6	80	BETWEEN GROUPS	7.1660	2	3.5830	0.3446	-0.0167
	M	7.167	7.548	8.500	7.562	WITHIN GROUPS	800.5215	77	10.3964		
	SU	3.589	3.243	1.871	3.197	TOTAL	807.6875	79			
56	N	12	63	6	81	BETWEEN GROUPS	42.6389	2	21.3194	1.6861	0.0167
	M	6.750	7.667	10.000	7.704	WITHIN GROUPS	986.2500	78	12.6442		
	SU	3.621	3.469	4.362	3.586	TOTAL	1028.8889	80			
57	N	15	88	13	116	BETWEEN GROUPS	4395.2207	2	2196.6104	143.6596	0.7110
	M	87.133	99.341	112.231	99.207	WITHIN GROUPS	1727.8138	113	15.2904		
	SU	3.756	3.965	3.632	3.729	TOTAL	6121.0345	115			

LLOYD 1-14: READING DEFICIENCY ANALYSIS OF VARIANCE RUNS

LLOYD 1-14E: NEGRO FEMALES - High IQ

J	1	2	3	TOTAL	SOURCE	SUM OF SQUARES	DF	MEAN SQUARE	F RATIO	OMEGA SQ
1	N	11	14	111	BETWEEN GROUPS	38.7646	2	19.3823	0.5979	-0.0073
	M	140.727	138.714	138.946	WITHIN GROUPS	3500.9111	108	32.4158		
	SD	7.938	5.195	5.673	TOTAL	3539.6757	110			
2	N	9	13	104	BETWEEN GROUPS	16.9747	2	8.4873	6.1001	0.0893
	M	6.000	4.308	5.250	WITHIN GROUPS	140.5253	101	1.3913		
	SD	0.0	1.750	1.237	TOTAL	157.5000	103			
3	N	11	13	105	BETWEEN GROUPS	16.1591	2	8.0796	5.0347	0.0714
	M	5.000	3.923	4.962	WITHIN GROUPS	163.6885	102	1.6048		
	SD	1.612	1.891	1.315	TOTAL	179.8476	104			
4	N	11	14	111	BETWEEN GROUPS	11.9821	2	5.9910	0.7807	-0.0040
	M	4.364	3.786	4.595	WITHIN GROUPS	828.7747	108	7.6738		
	SD	2.803	2.547	2.765	TOTAL	840.7568	110			
5	N	11	14	107	BETWEEN GROUPS	11.5038	2	5.7519	4.1690	0.0559
	M	6.455	5.214	6.009	WITHIN GROUPS	143.4869	104	1.3797		
	SD	1.128	1.477	1.209	TOTAL	154.9907	106			
6	N	10	13	106	BETWEEN GROUPS	7.3941	2	3.6970	6.6859	0.0969
	M	4.800	3.846	4.538	WITHIN GROUPS	56.9550	103	0.5530		
	SD	0.422	1.214	0.783	TOTAL	64.3491	105			
7	N	10	12	105	BETWEEN GROUPS	153.0752	2	76.5376	2.9778	0.0363
	M	20.000	25.000	21.952	WITHIN GROUPS	2621.6867	102	25.7028		
	SD	4.714	4.767	5.165	TOTAL	2774.7619	104			
8	N	11	14	111	BETWEEN GROUPS	503.0519	2	251.5260	2.6613	0.0291
	M	99.545	104.143	98.721	WITHIN GROUPS	10207.2904	108	94.5119		
	SD	9.363	11.224	9.867	TOTAL	10710.3423	110			
9	N	11	10	90	BETWEEN GROUPS	11.9225	2	5.9612	2.6101	0.0345
	M	3.455	3.100	2.644	WITHIN GROUPS	198.6997	87	2.2839		
	SD	2.018	1.449	1.538	TOTAL	210.6222	89			
10	N	10	10	93	BETWEEN GROUPS	2.5539	2	1.2769	0.5847	-0.0090
	M	3.000	2.600	2.538	WITHIN GROUPS	196.5644	90	2.1840		
	SD	1.886	1.174	1.471	TOTAL	199.1183	92			
11	N	10	9	92	BETWEEN GROUPS	4.6110	2	2.3055	1.3474	0.0075
	M	3.100	2.778	2.533	WITHIN GROUPS	152.2912	89	1.7111		
	SD	0.994	1.787	1.313	TOTAL	156.9022	91			
12	N	10	10	94	BETWEEN GROUPS	13.8626	2	6.9313	4.8353	0.0754
	M	2.800	3.100	2.223	WITHIN GROUPS	130.4459	91	1.4335		
	SD	0.919	1.969	1.246	TOTAL	144.3085	93			

LLOYD 1-14: READING DEFICIENCY ANALYSIS OF VARIANCE RUNS

LLOYD 1-14E: NEGRO FEMALES - High IQ

J	N	M	SD	1	2	3	TOTAL	SOURCE	SUM OF SQUARES	DF	MEAN SQUARE	F RATIO	OMEGA SQ
13	11	33.364	6.423	46	37.978	46.600	62	BETWEEN GROUPS	604.9698	2	302.4849	5.8043	0.1342
				5	7.594	4.099	37.855	WITHIN GROUPS	3074.7237	59	52.1140		
							7.767	TOTAL	3679.6935	61			
14	9	36.222	8.729	71	52.521	70.357	94	BETWEEN GROUPS	6731.7246	2	3365.8623	62.2992	0.5660
				14	7.223	7.099	53.617	WITHIN GROUPS	4916.4882	91	54.0273		
							11.191	TOTAL	11648.2128	93			
15	8	2.750	0.463	72	2.792	2.700	90	BETWEEN GROUPS	0.0806	2	0.0403	0.2005	-0.0181
				10	0.442	0.483	2.778	WITHIN GROUPS	17.4750	87	0.2009		
							0.444	TOTAL	17.5556	89			
16	9	47.889	5.442	71	57.056	74.143	94	BETWEEN GROUPS	4582.4307	2	2291.2153	27.2110	0.3580
				14	8.500	13.496	58.723	WITHIN GROUPS	7662.3778	91	84.2020		
							11.475	TOTAL	12244.8085	93			
17	8	93.750	11.184	56	97.375	111.571	71	BETWEEN GROUPS	1446.1396	2	723.0698	3.8751	0.0749
				7	13.442	17.681	98.366	WITHIN GROUPS	12688.3393	68	186.5932		
							14.210	TOTAL	14134.4789	70			
18	11	41.182	6.210	86	54.314	71.214	111	BETWEEN GROUPS	5819.1769	2	2909.5885	80.4388	0.5887
				14	5.930	6.399	55.144	WITHIN GROUPS	3906.5168	108	36.1715		
							9.403	TOTAL	9725.6937	110			
19	11	51.818	6.447	85	57.965	65.286	110	BETWEEN GROUPS	1154.8760	2	577.4380	12.3785	0.1714
				14	7.057	5.497	58.282	WITHIN GROUPS	4991.3876	107	46.6485		
							7.509	TOTAL	6146.2636	109			
20	11	53.000	9.033	85	60.482	66.857	110	BETWEEN GROUPS	1184.3349	2	592.1675	11.8236	0.1644
				14	6.933	6.237	60.545	WITHIN GROUPS	5356.9378	107	50.0835		
							7.748	TOTAL	6543.2727	109			
21	10	30.600	8.030	81	33.728	34.857	105	BETWEEN GROUPS	113.4229	2	56.7115	1.3720	0.0070
				14	6.237	6.347	33.581	WITHIN GROUPS	4216.1390	102	41.3247		
							6.452	TOTAL	4329.5619	104			
22	10	30.500	7.735	81	33.827	35.929	105	BETWEEN GROUPS	172.3817	2	86.1908	1.9796	0.0183
				14	6.446	6.673	33.790	WITHIN GROUPS	4441.0088	102	43.5393		
							6.660	TOTAL	4613.3905	104			
23	10	29.500	6.468	79	32.380	34.000	102	BETWEEN GROUPS	116.4708	2	58.2354	1.1491	0.0029
				13	7.238	6.795	32.304	WITHIN GROUPS	5017.1076	99	50.6779		
							7.129	TOTAL	5133.5784	101			
24	10	27.300	6.038	81	31.198	32.000	105	BETWEEN GROUPS	153.5938	2	76.7969	1.3536	0.0067
				14	7.589	8.096	30.933	WITHIN GROUPS	5786.9395	102	56.7347		
							7.558	TOTAL	5940.5333	104			

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LLOYD 1-14: READING DEFICIENCY ANALYSIS OF VARIANCE RUNS

LLOYD 1-14E: NEGRO FEMALES - High IQ

J	N	M	SD	1	2	3	TOTAL	SOURCE	SUM OF SQUARES	DF	MEAN SQUARE	F RATIO	OMEGA SQ
25	N	4	26.500	47	3	54	54	BETWEEN GROUPS	85.3652	2	42.6826	0.7151	-0.0107
	M	3	31.106	32.333	30.833	30.833	30.833	WITHIN GROUPS	3044.1348	51	59.6889		
	SD	11.818	7.218	10.693	7.684	7.684	TOTAL	3129.5000	53				
26	N	10	33.100	81	14	105	105	BETWEEN GROUPS	115.0711	2	57.5355	1.3891	0.0074
	M	6	36.568	37.000	36.295	36.295	36.295	WITHIN GROUPS	4224.7765	102	41.4194		
	SD	5.896	6.557	6.026	6.460	6.460	TOTAL	4339.8476	104				
27	N	1	35.000	16	7	24	24	BETWEEN GROUPS	11.9107	2	5.9554	0.0594	-0.0851
	M	0.0	34.000	32.571	33.625	33.625	33.625	WITHIN GROUPS	2105.7143	21	100.2721		
	SD	0.0	9.011	12.164	9.595	9.595	TOTAL	2117.6250	23				
28	N	10	36.400	80	14	104	104	BETWEEN GROUPS	52.6117	2	26.3058	0.5118	-0.0095
	M	5	37.312	39.143	37.471	37.471	37.471	WITHIN GROUPS	5191.3018	101	51.3990		
	SD	5.296	7.515	6.062	7.135	7.135	TOTAL	5243.9135	103				
29	N	10	37.500	80	14	104	104	BETWEEN GROUPS	1.5125	2	0.7562	0.0172	-0.0193
	M	5	37.500	37.262	37.000	37.250	37.250	WITHIN GROUPS	4447.9875	101	44.0395		
	SD	5.482	6.573	7.666	6.573	6.573	TOTAL	4449.5000	103				
30	N	9	35.000	79	14	102	102	BETWEEN GROUPS	10.2967	2	5.1484	0.0741	-0.0185
	M	5	35.000	35.089	36.000	35.206	35.206	WITHIN GROUPS	6880.3797	99	69.4988		
	SD	9.513	8.502	6.312	8.260	8.260	TOTAL	6890.6765	101				
31	N	10	33.300	81	12	103	103	BETWEEN GROUPS	118.4396	2	59.2198	0.9101	-0.0017
	M	5	33.300	36.667	37.583	36.447	36.447	WITHIN GROUPS	6507.0167	100	65.0702		
	SD	9.978	7.538	9.839	8.059	8.059	TOTAL	6625.4563	102				
32	N	10	30.600	80	13	103	103	BETWEEN GROUPS	503.6535	2	251.8268	3.7087	0.0500
	M	5	30.600	35.037	39.923	35.223	35.223	WITHIN GROUPS	6790.2106	100	67.9021		
	SD	8.409	8.434	6.677	8.456	8.456	TOTAL	7293.8641	102				
33	N	10	28.100	79	12	101	101	BETWEEN GROUPS	310.9621	2	155.4810	2.1726	0.0227
	M	5	28.100	33.696	34.833	33.277	33.277	WITHIN GROUPS	7013.2755	98	71.5640		
	SD	8.582	8.279	9.552	8.558	8.558	TOTAL	7324.2376	100				
34	N	9	28.778	72	10	91	91	BETWEEN GROUPS	181.9585	2	90.9792	1.4940	0.0107
	M	5	28.778	31.125	34.800	31.297	31.297	WITHIN GROUPS	5359.0306	88	60.8981		
	SD	9.311	7.771	6.477	7.846	7.846	TOTAL	5540.9890	90				
35	N	6	32.500	61	10	77	77	BETWEEN GROUPS	8.6030	2	4.3015	0.0886	-0.0242
	M	5	32.500	31.410	32.000	31.571	31.571	WITHIN GROUPS	3594.2541	74	48.5710		
	SD	6.058	6.756	8.641	6.885	6.885	TOTAL	3602.8571	76				
36	N	6	29.833	55	8	69	69	BETWEEN GROUPS	79.1731	2	39.5865	1.1761	0.0051
	M	5	29.833	30.364	33.625	30.696	30.696	WITHIN GROUPS	2221.4356	66	33.6581		
	SD	7.055	5.691	5.655	5.817	5.817	TOTAL	2300.6087	68				

LLOYD 1-14: READING DEFICIENCY ANALYSIS OF VARIANCE RUNS

LLOYD 1-14E: NEGRO FEMALES - High IQ

J	N	M	SD	1	2	3	TOTAL	SOURCE	SUM OF SQUARES	DF	MEAN SQUARE	F RATIO	OMEGA SQ
37	10	85.100	7.355	11	77	98	93.061	BETWEEN GROUPS	1013.0184	2	506.5092	5.7266	0.0880
				98.909	93.260	9.852	9.852	WITHIN GROUPS	8402.6143	95	88.4486		
				10.977	9.397			TOTAL	9415.6327	97			
38	10	88.900	7.965	10	70	90	93.189	BETWEEN GROUPS	731.5175	2	365.7587	4.0238	0.0630
				100.500	92.757	9.853	9.853	WITHIN GROUPS	7908.2714	87	90.8997		
				8.580	9.836			TOTAL	8639.7889	89			
39	6	4.167	1.602	8	55	69	3.594	BETWEEN GROUPS	2.5589	2	1.2794	0.6917	-0.0090
				3.750	3.509	1.354	1.354	WITHIN GROUPS	122.0788	66	1.8497		
				0.707	1.399			TOTAL	124.6377	68			
40	10	44.400	8.462	8	69	87	52.954	BETWEEN GROUPS	1822.2947	2	911.1474	10.1946	0.1745
				64.625	52.841	10.416	10.416	WITHIN GROUPS	7507.5214	84	89.2753		
				10.295	9.488			TOTAL	9329.8161	86			
41	10	51.700	13.081	8	72	90	64.611	BETWEEN GROUPS	2198.0111	2	1099.0056	5.7167	0.0949
				72.250	65.556	14.582	14.582	WITHIN GROUPS	16725.3778	87	192.2457		
				15.323	13.810			TOTAL	18923.3889	89			
42	10	47.900	18.003	8	69	87	52.103	BETWEEN GROUPS	840.9606	2	420.4803	1.2452	0.0056
				61.125	51.667	18.428	18.428	WITHIN GROUPS	28365.1083	84	337.6799		
				24.351	17.697			TOTAL	29206.0690	86			
43	9	52.556	7.282	8	67	84	58.071	BETWEEN GROUPS	357.9070	2	178.9535	2.6299	0.0374
				61.125	58.448	8.409	8.409	WITHIN GROUPS	5511.6644	81	68.0452		
				9.448	8.223			TOTAL	5869.5714	83			
44	10	48.300	7.931	7	68	85	55.765	BETWEEN GROUPS	1102.6122	2	551.3061	6.8885	0.1217
				64.571	55.956	9.553	9.553	WITHIN GROUPS	6562.6819	82	80.0327		
				9.744	9.000			TOTAL	7665.2941	84			
45	3	54.000	26.907	3	25	31	70.226	BETWEEN GROUPS	1212.8594	2	606.4297	1.2577	0.0164
				82.000	70.760	22.146	22.146	WITHIN GROUPS	13500.5600	28	482.1629		
				33.151	20.263			TOTAL	14713.4194	30			
46	3	59.333	16.862	3	25	31	73.097	BETWEEN GROUPS	1018.3363	2	509.1682	1.4688	0.0294
				85.333	73.280	18.907	18.907	WITHIN GROUPS	9706.3733	28	346.6562		
				30.860	17.360			TOTAL	10724.7097	30			
47	3	56.667	21.008	3	25	31	71.677	BETWEEN GROUPS	1110.4809	2	555.2404	1.5472	0.0341
				83.667	72.040	19.286	19.286	WITHIN GROUPS	10048.2933	28	358.8676		
				32.005	17.220			TOTAL	11158.7742	30			
48	10	7.200	3.645	11	76	97	7.897	BETWEEN GROUPS	26.5557	2	13.2778	1.2256	0.0046
				9.273	7.789	3.197	3.197	WITHIN GROUPS	1018.4134	94	10.8342		
				3.197	3.259			TOTAL	1044.9691	96			



LLOYD 1-14: READING DEFICIENCY ANALYSIS OF VARIANCE RUNS

LLOYD 1-14E: NEGRO FEMALES - High IQ

J	N	M	SD	1	2	3	TOTAL	SOURCE	SUM OF SQUARES	DF	MEAN SQUARE	F RATIO	OMEGA SQ
49	N			10	75	12	97	BETWEEN GROUPS	62.2889	2	31.1445	2.2374	0.0249
	M	4.800		6.667	7.413	6.667	7.052	WITHIN GROUPS	1308.4533	94	13.9197		
	SD	2.530		2.902	3.956	2.902	3.779	TOTAL	1370.7423	96			
50	N			10	76	12	98	BETWEEN GROUPS	207.1980	2	103.5990	7.3240	0.1143
	M	9.100		14.750	10.789	14.750	11.102	WITHIN GROUPS	1343.7816	95	14.1451		
	SD	3.542		4.351	3.693	4.351	3.999	TOTAL	1550.9796	97			
51	N			10	74	12	96	BETWEEN GROUPS	45.0355	2	22.5178	1.7721	0.0158
	M	4.900		7.750	6.662	7.750	6.615	WITHIN GROUPS	1181.7041	93	12.7065		
	SD	1.912		4.634	3.536	4.634	3.593	TOTAL	1226.7396	95			
52	N			10	75	12	97	BETWEEN GROUPS	121.9765	2	60.9883	5.2509	0.0806
	M	8.200		12.250	9.027	12.250	9.340	WITHIN GROUPS	1091.7967	94	11.6149		
	SD	2.150		3.596	3.503	3.596	3.556	TOTAL	1213.7732	96			
53	N			10	75	12	97	BETWEEN GROUPS	51.7415	2	25.8707	1.4827	0.0099
	M	6.400		9.250	7.293	9.250	7.443	WITHIN GROUPS	1640.1967	94	17.4489		
	SD	4.248		5.754	3.879	5.754	4.198	TOTAL	1691.9381	96			
54	N			10	75	12	97	BETWEEN GROUPS	170.2256	2	85.1128	7.0769	0.1113
	M	5.200		10.750	7.867	10.750	7.948	WITHIN GROUPS	1130.5167	94	12.0268		
	SD	2.821		4.634	3.334	4.634	3.681	TOTAL	1300.7423	96			
55	N			10	72	12	94	BETWEEN GROUPS	105.3072	2	52.6536	5.9635	0.0955
	M	7.900		11.417	8.319	11.417	8.670	WITHIN GROUPS	803.4694	91	8.8293		
	SD	2.331		2.906	3.053	2.906	3.126	TOTAL	908.7766	93			
56	N			9	72	12	93	BETWEEN GROUPS	177.3911	2	88.6956	7.1329	0.1165
	M	8.111		12.750	8.736	12.750	9.194	WITHIN GROUPS	1119.1250	90	12.4347		
	SD	3.180		3.769	3.525	3.769	3.754	TOTAL	1296.5161	92			
57	N			11	86	14	111	BETWEEN GROUPS	4726.4359	2	2363.2179	136.3949	0.7093
	M	85.636		113.214	99.616	113.214	99.946	WITHIN GROUPS	1871.2398	108	17.3263		
	SD	5.143		3.906	4.070	3.906	7.745	TOTAL	6597.6757	110			

LLOYD 1-14: READING DEFICIENCY ANALYSIS OF VARIANCE RUNS

LLOYD 1-14D: NEGRO FEMALES - Low IQ

J	N	M	SD	1	2	3	TOTAL	SOURCE	SUM OF SQUARES	DF	MEAN SQUARE	F RATIO	OMEGA SQ
1	N	10		10	62	13	85	BETWEEN GROUPS	399.3870	2	199.6935	1.2079	0.0049
	M	149.200	147.129	153.154	148.294			WITHIN GROUPS	13556.2600	82	165.3202		
	SD	19.487	11.674	12.335	12.889			TOTAL	13955.6471	84			
2	N	10		10	57	13	80	BETWEEN GROUPS	2.2215	2	1.1108	0.7053	-0.0074
	M	4.700	5.211	5.154	5.137			WITHIN GROUPS	121.2660	77	1.5749		
	SD	1.636	1.114	1.519	1.250			TOTAL	123.4875	79			
3	N	10		10	56	13	79	BETWEEN GROUPS	5.0028	2	2.5014	1.2975	0.0075
	M	4.800	4.696	5.385	4.823			WITHIN GROUPS	146.5162	76	1.9278		
	SD	1.033	1.513	0.961	1.394			TOTAL	151.5190	78			
4	N	10		10	62	13	85	BETWEEN GROUPS	1.1918	2	0.5959	0.0677	-0.0224
	M	4.800	4.452	4.385	4.482			WITHIN GROUPS	722.0318	82	8.8053		
	SD	2.860	2.895	3.380	2.934			TOTAL	723.2235	84			
5	N	10		10	55	13	78	BETWEEN GROUPS	0.8669	2	0.4334	0.2825	-0.0187
	M	6.300	5.982	6.000	6.026			WITHIN GROUPS	115.0818	75	1.5344		
	SD	0.823	1.354	0.913	1.227			TOTAL	115.9487	77			
6	N	10		10	53	13	76	BETWEEN GROUPS	0.2240	2	0.1120	0.2352	-0.0205
	M	4.600	4.453	4.538	4.487			WITHIN GROUPS	34.7628	73	0.4762		
	SD	0.699	0.695	0.660	0.683			TOTAL	34.9868	75			
7	N	10		10	60	12	82	BETWEEN GROUPS	253.8821	2	126.9411	6.5260	0.1188
	M	14.500	15.750	20.417	16.280			WITHIN GROUPS	1536.6667	79	19.4515		
	SD	4.972	4.201	4.981	4.702			TOTAL	1790.5488	81			
8	N	10		10	62	13	85	BETWEEN GROUPS	98.4276	2	49.2138	0.6169	-0.0091
	M	71.100	73.677	71.385	73.024			WITHIN GROUPS	6541.5253	82	79.7747		
	SD	10.290	8.548	9.709	8.891			TOTAL	6639.9529	84			
9	N	7		7	47	9	63	BETWEEN GROUPS	5.9554	2	2.9777	0.8702	-0.0041
	M	4.000	3.234	3.889	3.413			WITHIN GROUPS	205.3144	60	3.4219		
	SD	2.082	1.591	2.804	1.846			TOTAL	211.2698	62			
10	N	8		8	50	10	68	BETWEEN GROUPS	7.0774	2	3.5387	1.3566	0.0104
	M	3.625	2.880	3.600	3.074			WITHIN GROUPS	169.5550	65	2.6085		
	SD	2.200	1.409	2.066	1.624			TOTAL	176.6324	67			
11	N	9		9	52	9	70	BETWEEN GROUPS	0.5001	2	0.2500	0.1238	-0.0257
	M	3.222	3.058	2.889	3.057			WITHIN GROUPS	135.2714	67	2.0190		
	SD	1.202	1.447	1.453	1.403			TOTAL	135.7714	69			
12	N	10		10	54	10	74	BETWEEN GROUPS	4.2939	2	2.1469	1.2032	0.0055
	M	3.500	2.870	3.300	3.014			WITHIN GROUPS	126.6926	71	1.7844		
	SD	1.080	1.388	1.252	1.340			TOTAL	130.9865	73			

LLOYD 1-14: READING DEFICIENCY ANALYSIS OF VARIANCE RUNS

LLOYD 1-14D: NEGRO FEMALES - Low IQ

J	N	M	SD	1	2	3	TOTAL	SOURCE	SUM OF SQUARES	DF	MEAN SQUARE	F RATIO	OMEGA S ₀
13	8	24.000	5.855	35	36.000	4	47	BETWEEN GROUPS	441.7824	2	220.8912	4.9470	0.1438
				7.014	4.163		7.233	WITHIN GROUPS	1964.6857	44	44.6519		
								TOTAL	2406.4681	46			
14	10	24.400	4.477	52	50.583	12	74	BETWEEN GROUPS	3853.8549	2	1926.9274	34.2095	0.4730
				8.083	6.653		10.372	WITHIN GROUPS	3999.2397	71	56.3273		
								TOTAL	7853.0946	73			
15	7	2.000	0.0	50	2.429	7	64	BETWEEN GROUPS	0.8157	2	0.4079	1.9235	0.0281
				0.479	0.535		2.312	WITHIN GROUPS	12.9343	61	0.2120		
							0.467	TOTAL	13.7500	63			
16	10	36.000	9.730	52	58.250	12	74	BETWEEN GROUPS	2700.4283	2	1350.2141	27.3985	0.4164
				6.060	8.390		48.189	WITHIN GROUPS	3498.9231	71	49.2806		
							9.215	TOTAL	6199.3514	73			
17	5	73.800	16.285	42	86.143	7	54	BETWEEN GROUPS	639.3905	2	319.6952	1.3437	0.0126
				15.593	13.570		84.556	WITHIN GROUPS	12133.9429	51	237.9204		
							15.524	TOTAL	12773.3333	53			
18	10	28.100	5.587	62	53.231	13	85	BETWEEN GROUPS	3595.4504	2	1797.7252	40.7563	0.4833
				6.767	6.723		41.400	WITHIN GROUPS	3616.9496	82	44.1091		
							9.266	TOTAL	7212.4000	84			
19	10	43.200	8.257	62	51.917	12	84	BETWEEN GROUPS	428.5594	2	214.2797	4.7258	0.0815
				6.516	6.529		48.643	WITHIN GROUPS	3672.7263	81	45.3423		
							7.029	TOTAL	4101.2857	83			
20	10	42.100	7.445	61	54.923	13	84	BETWEEN GROUPS	935.1416	2	467.5708	8.3319	0.1486
				7.090	9.269		49.774	WITHIN GROUPS	4545.5608	81	56.1180		
							8.126	TOTAL	5480.7024	83			
21	8	21.125	4.794	51	29.000	11	70	BETWEEN GROUPS	341.4082	2	170.7041	3.4024	0.0642
				7.111	8.198		24.243	WITHIN GROUPS	3361.6632	67	50.1711		
							7.326	TOTAL	3702.8714	69			
22	8	21.125	4.794	51	29.364	11	70	BETWEEN GROUPS	385.5294	2	192.7647	3.7993	0.0741
				7.079	8.559		24.243	WITHIN GROUPS	3399.3420	67	50.7364		
							7.406	TOTAL	3784.8714	69			
23	8	21.625	5.012	46	31.111	9	63	BETWEEN GROUPS	425.2792	2	212.6396	3.9340	0.0852
				7.558	7.881		25.270	WITHIN GROUPS	3243.1335	60	54.0522		
							7.692	TOTAL	3668.4127	62			
24	8	16.500	4.408	51	23.727	11	70	BETWEEN GROUPS	302.9764	2	151.4882	3.2796	0.0611
				6.420	9.477		22.214	WITHIN GROUPS	3094.8093	67	46.1912		
							7.017	TOTAL	3397.7857	69			



LLOYD 1-14: READING DEFICIENCY ANALYSIS OF VARIANCE RUNS

LLOYD 1-140: NEGRO FEMALES - Low IQ

J	N	M	SD	1	2	3	TOTAL	SOURCE	SUM OF SQUARES	DF	MEAN SQUARE	F RATIO	OMEGA SQ
25	N	0		17	19		32.9969	BETWEEN GROUPS	32.9969	1	32.9969	0.5612	-0.0236
	M	0.0		23.706	24.158	28.000	999.5294	WITHIN GROUPS	999.5294	17	58.7958		
	SD	0.0		7.872	7.574	2.828	1032.5263	TOTAL	1032.5263	18			
26	N	8		49	67	10	335.3098	BETWEEN GROUPS	335.3098	2	167.6549	3.6754	0.0740
	M	24.500		28.184	28.463	33.000	2919.3469	WITHIN GROUPS	2919.3469	64	45.6148		
	SD	4.408		6.480	7.022	9.238	3254.6567	TOTAL	3254.6567	66			
27	N	0		3	5	2	22.5333	BETWEEN GROUPS	22.5333	1	22.5333	0.3583	-0.1472
	M	0.0		26.667	28.400	31.000	188.6667	WITHIN GROUPS	188.6667	3	62.8889		
	SD	0.0		7.638	7.266	8.485	211.2000	TOTAL	211.2000	4			
28	N	8		50	69	11	284.9773	BETWEEN GROUPS	284.9773	2	142.4887	2.7826	0.0491
	M	25.875		31.760	31.304	33.182	3379.6314	WITHIN GROUPS	3379.6314	66	51.2065		
	SD	4.190		7.414	7.341	7.508	3664.6087	TOTAL	3664.6087	68			
29	N	8		50	69	11	80.0050	BETWEEN GROUPS	80.0050	2	40.0025	0.7174	-0.0083
	M	28.125		31.240	31.000	32.000	3679.9950	WITHIN GROUPS	3679.9950	66	55.7575		
	SD	7.120		7.249	7.436	8.660	3760.0000	TOTAL	3760.0000	68			
30	N	8		49	67	10	682.6672	BETWEEN GROUPS	682.6672	2	341.3336	3.6337	0.0729
	M	19.250		26.714	26.552	31.600	6011.9000	WITHIN GROUPS	6011.9000	64	93.9359		
	SD	7.498		9.305	10.071	12.747	6694.5672	TOTAL	6694.5672	66			
31	N	8		53	72	11	767.7795	BETWEEN GROUPS	767.7795	2	383.8897	5.9566	0.1210
	M	21.625		25.377	26.181	33.364	4446.8733	WITHIN GROUPS	4446.8733	69	64.4474		
	SD	4.406		7.766	8.570	10.838	5214.6528	TOTAL	5214.6528	71			
32	N	7		48	64	9	335.7986	BETWEEN GROUPS	335.7986	2	167.8993	2.4762	0.0441
	M	18.000		25.188	24.500	25.889	4136.2014	WITHIN GROUPS	4136.2014	61	67.8066		
	SD	3.651		7.908	8.425	11.816	4472.0000	TOTAL	4472.0000	63			
33	N	4		44	52	4	393.8601	BETWEEN GROUPS	393.8601	2	196.9301	2.5692	0.0569
	M	21.000		23.045	23.654	33.000	3755.9091	WITHIN GROUPS	3755.9091	49	76.6512		
	SD	8.718		8.653	9.020	10.132	4149.7692	TOTAL	4149.7692	51			
34	N	2		32	38	4	211.4260	BETWEEN GROUPS	211.4260	2	105.7130	2.3418	0.0660
	M	22.500		24.906	25.553	32.250	1579.9687	WITHIN GROUPS	1579.9687	35	45.1420		
	SD	3.536		6.953	6.958	4.787	1791.3947	TOTAL	1791.3947	37			
35	N	0		21	24	3	25.9286	BETWEEN GROUPS	25.9286	1	25.9286	1.2660	0.0110
	M	0.0		24.857	25.250	28.000	450.5714	WITHIN GROUPS	450.5714	22	20.4805		
	SD	0.0		4.442	4.552	5.292	476.5000	TOTAL	476.5000	23			
36	N	0		16	19	3	11.6327	BETWEEN GROUPS	11.6327	1	11.6327	0.2727	-0.0398
	M	0.0		24.187	24.526	26.333	725.1042	WITHIN GROUPS	725.1042	17	42.6532		
	SD	0.0		6.853	6.398	3.215	736.7368	TOTAL	736.7368	18			

LLOYD 1-14: READING DEFICIENCY ANALYSIS OF VARIANCE RUNS

LLOYD 1-14D: NEGRO FEMALES - Low IQ

J	N	M	SD	1	2	3	TOTAL	SOURCE	SUM OF SQUARES	DF	MEAN SQUARE	F RATIO	OMEGA SQ
37	6	69.333	11.057	49	89.182	80.424	66	BETWEEN GROUPS	1599.8046	2	799.9023	9.7922	0.2104
				8.995	8.072	10.188		WITHIN GROUPS	5146.3166	63	81.6876		
								TOTAL	6746.1212	65			
38	2	82.000	0.0	29	90.500	83.486	35	BETWEEN GROUPS	222.9153	2	111.4576	2.2720	0.0678
				6.889	8.963	7.261		WITHIN GROUPS	1569.8276	32	49.0571		
								TOTAL	1792.7429	34			
39	0	0.0	0.0	16	5.000	3.722	18	BETWEEN GROUPS	3.6736	1	3.6736	2.4555	0.0748
				3.562	0.0	1.274		WITHIN GROUPS	23.9375	16	1.4961		
				1.263	0.0			TOTAL	27.6111	17			
40	3	44.333	4.041	37	51.091	44.000	51	BETWEEN GROUPS	722.0999	2	361.0500	4.7875	0.1293
				41.865	8.080	9.319		WITHIN GROUPS	3619.9001	48	75.4146		
								TOTAL	4342.0000	50			
41	4	32.250	2.630	37	67.000	51.615	52	BETWEEN GROUPS	4331.2334	2	2165.6167	12.2832	0.3026
				49.135	13.986	15.947		WITHIN GROUPS	8639.0743	49	176.3076		
								TOTAL	12970.3077	51			
42	3	22.667	6.351	26	50.900	45.385	39	BETWEEN GROUPS	1859.0103	2	929.5051	4.9222	0.1675
				45.885	12.467	15.094		WITHIN GROUPS	6798.2205	36	188.8395		
				14.586				TOTAL	8657.2308	38			
43	4	42.750	7.455	37	50.545	47.192	52	BETWEEN GROUPS	212.4915	2	106.2458	1.4979	0.0188
				46.676	10.202	8.504		WITHIN GROUPS	3475.5854	49	70.9303		
				7.937				TOTAL	3688.0769	51			
44	3	35.333	7.371	36	52.545	45.940	50	BETWEEN GROUPS	863.7872	2	431.8936	5.7980	0.1610
				44.806	10.396	9.438		WITHIN GROUPS	3501.0328	47	74.4901		
				8.127				TOTAL	4364.8200	49			
45	0	0.0	0.0	8	68.000	60.182	11	BETWEEN GROUPS	252.1364	1	252.1364	1.1441	0.0129
				57.250	3.464	14.952		WITHIN GROUPS	1983.5000	9	220.3889		
				16.731				TOTAL	2235.6364	10			
46	0	0.0	0.0	8	60.000	63.727	11	BETWEEN GROUPS	57.3068	1	57.3068	0.2308	-0.0752
				65.125	24.331	15.140		WITHIN GROUPS	2234.8750	9	248.3194		
				12.253				TOTAL	2292.1818	10			
47	0	0.0	0.0	8	64.000	62.000	11	BETWEEN GROUPS	16.5000	1	16.5000	0.1073	-0.0883
				61.250	13.229	11.832		WITHIN GROUPS	1383.5000	9	153.7222		
				12.151				TOTAL	1400.0000	10			
48	4	3.500	3.786	36	8.000	6.267	45	BETWEEN GROUPS	45.8000	2	22.9000	2.6496	0.0683
				6.333	2.345	3.048		WITHIN GROUPS	363.0000	42	8.6429		
				2.918				TOTAL	408.8000	44			

LLOYD 1-14: READING DEFICIENCY ANALYSIS OF VARIANCE RUNS

LLOYD 1-14D: NEGRO FEMALES - Low IQ

J	N	M	SD	1	2	3	TOTAL	SOURCE	SUM OF SQUARES	DF	MEAN SQUARE	F RATIO	OMEGA SQ
49	N	4		4	39	5	48	BETWEEN GROUPS	4.3833	2	2.1917	0.1728	-0.0357
	M	5.250		6.333	6.400	6.400	6.250	WITHIN GROUPS	570.6167	45	12.6804		
	SD	3.775		3.413	4.615	4.615	3.498	TOTAL	575.0000	47			
50	N	4		4	38	5	47	BETWEEN GROUPS	26.8806	2	13.4403	1.3068	0.0129
	M	5.250		7.974	7.800	7.800	7.723	WITHIN GROUPS	452.5237	44	10.2846		
	SD	4.924		3.123	2.168	2.168	3.228	TOTAL	479.4043	46			
51	N	4		4	37	5	46	BETWEEN GROUPS	45.8625	2	22.9312	2.3177	0.0512
	M	3.250		6.054	3.800	3.800	5.565	WITHIN GROUPS	425.4419	43	9.8940		
	SD	1.500		3.358	1.789	1.789	3.236	TOTAL	471.3043	45			
52	N	4		4	36	5	45	BETWEEN GROUPS	30.6944	2	15.3472	1.5168	0.0225
	M	6.500		7.083	9.600	9.600	7.311	WITHIN GROUPS	424.9500	42	10.1179		
	SD	3.697		3.157	2.966	2.966	3.218	TOTAL	455.6444	44			
53	N	4		4	36	5	45	BETWEEN GROUPS	18.1778	2	9.0889	0.7619	-0.0107
	M	3.500		5.722	5.200	5.200	5.467	WITHIN GROUPS	501.0222	42	11.9291		
	SD	1.732		3.559	3.493	3.493	3.435	TOTAL	519.2000	44			
54	N	4		4	37	5	46	BETWEEN GROUPS	56.2551	2	28.1275	2.6897	0.0684
	M	2.750		4.703	7.600	7.600	4.848	WITHIN GROUPS	449.6797	43	10.4577		
	SD	3.500		3.213	3.209	3.209	3.353	TOTAL	505.9348	45			
55	N	4		4	36	5	45	BETWEEN GROUPS	3.8278	2	1.9139	0.1228	-0.0406
	M	6.000		6.083	7.000	7.000	6.178	WITHIN GROUPS	654.7500	42	15.5893		
	SD	5.354		3.974	2.000	2.000	3.869	TOTAL	658.5778	44			
56	N	4		4	30	5	45	BETWEEN GROUPS	18.2222	2	9.1111	0.8843	-0.0052
	M	4.000		6.111	6.600	6.600	5.978	WITHIN GROUPS	432.7556	42	10.3037		
	SD	2.449		3.336	2.510	2.510	3.201	TOTAL	450.9778	44			
57	N	10		10	62	13	85	BETWEEN GROUPS	3594.4421	2	1797.2210	111.8485	0.7229
	M	87.700		99.210	112.538	112.538	99.894	WITHIN GROUPS	1317.6050	82	16.0684		
	SD	2.541		4.350	2.961	2.961	7.647	TOTAL	4912.0471	84			

