

DOCUMENT RESUME

ED 047 795

PS 004 434

AUTHOR Jones, Shuell H.  
TITLE Curricular Intervention in Language Arts Readiness for Head Start Children. Tulane University, Head Start Evaluation and Research Center, 1968-1969 Intervention Report. Supplement to the Annual Report to the Office of Economic Opportunity.  
INSTITUTION Tulane Univ., New Orleans, La. Head Start Evaluation and Research Center.  
SPONS AGENCY Office of Economic Opportunity, Washington, D.C.  
PUB DATE 31 Aug 69  
NOTE 19p.; ED 038 175 is the complete annual report, "Curricular Intervention in Language Arts Readiness for Head Start Children."  
EDRS PRICE EDRS Price MF-\$0.65 HC-\$3.29  
DESCRIPTORS Age Differences, Comparative Analysis, \*Comparative Statistics, Comparative Testing, \*Language Arts, Preschool Children, \*Readiness (Mental), \*Scores, Tables (Data), \*Test Results  
IDENTIFIERS Alabama, Head Start, Mississippi

ABSTRACT

In a previous study, (ED 038 175) Mississippi children, who were a year younger (3 1/2 to 4 1/2) than Alabama children, had scored higher than the Alabama children on posttesting. This supplementary report gives the results of further investigation of this finding. Explanations may be: (1) the younger children began with higher IQ scores; (2) more than eight times as many children in Alabama live with families receiving welfare; and (3) more Alabama children have no adult male residing in the home. Supplemental data in tabular form include: standard deviations of pretest and posttest means, age means and standard deviations, time interval in weeks, previous Head Start experience, tester reliability, age range and analyses of correlation of IQ to family status. Whether these factors have played a part in the phenomenon studied is actually unknown. Further investigation is needed. (Author/AJ)

U. S. DEPARTMENT OF HEALTH, EDUCATION & WELFARE  
OFFICE OF EDUCATION

THIS DOCUMENT HAS BEEN REPRODUCED EXACTLY AS RECEIVED FROM THE  
PERSON OR ORGANIZATION ORIGINATING IT. POINTS OF VIEW OR OPINIONS  
STATED DO NOT NECESSARILY REPRESENT OFFICIAL OFFICE OF EDUCATION  
POSITION OR POLICY.

Curricular Intervention in Language Arts Readiness for  
Head Start Children.

**SUPPLEMENT**

to the

**ANNUAL REPORT TO THE**

**OFFICE OF ECONOMIC OPPORTUNITY**

**CONTRACT NUMBER 4123**

**August 31, 1969**

**Shuell H. Jones, Ed.D.**

**Tulane University**

ED047795

PS004434

## Tulane University 1968-1969 Intervention Report

### Supplementary Data

The fact that the Mississippi children who were a year younger ( $3\frac{1}{2}$  to  $4\frac{1}{2}$ ) than the Alabama children had scored as high as the Alabama children stimulated further investigation.

One explanation for the younger children of an equal treatment-pair (Mississippi-Alabama) scoring higher on posttesting, is that they began with higher IQ scores.

Supplemental data include: standard deviations of pre-and post means, age means and standard deviations, time interval in weeks, previous Head Start experience, tester reliability, age range and analyses of correlation of IQ to family status, i.e., welfare and no male in household.

#### Findings:

None of the children in any of the thirteen classes had previous Head Start experience.

Our testers were trained and experienced and to our best knowledge none developed higher or lower scores systematically.

A graph, Table 8, of the actual number of children at the various age ranges supports the age means and standard deviations in the supplement Tables 1 through 6.

Table 7, shows 43 children in Alabama living with families receiving welfare, in comparison to five children in Mississippi. The table also shows 40 children in Alabama have no adult male residing in the household, compared to 14 children in Mississippi. Of the 31 children in Alabama

scoring below 80 on the IQ test, 12 of them were from families either living on welfare or having no adult male residing in the household, while 8 children in Mississippi scored below 80 on the same test and three of these children came from families residing on welfare or having no male in the household.

Whether these factors have played a part in the phenomenon of the younger Mississippi children scoring higher on tests administered than the older Alabama children is actually unknown and suggests a need for further investigation.

TABLE 1 SUPPLEMENT (See page 36)

Standard Deviations of Pre and Post Means, Age Means,

Time Interval in Weeks on I T P A and STANFORD-BINET

ALABAMA

I T P A

|                        | E 1   | E 2   | E 3   | E 4   | E 5   | Control<br>6 | Control<br>7 |
|------------------------|-------|-------|-------|-------|-------|--------------|--------------|
| Post S.D.              | 39.93 | 26.56 | 28.43 | 20.90 | 29.58 | 23.32        | 42.48        |
| Pre S.D.               | 39.13 | 19.29 | 29.30 | 19.11 | 30.89 | 22.81        | 41.30        |
| Pre Age Mean           | 66.91 | 66.85 | 65.94 | 66.57 | 67.06 | 66.60        | 66.43        |
| Pre Age S.D.           | 2.19  | 2.60  | 2.04  | 1.65  | 1.98  | 2.35         | 2.25         |
| Post Age Mean          | 72.76 | 72.14 | 71.51 | 72.07 | 72.53 | 72.66        | 72.18        |
| Post Age S.D.          | 1.78  | 2.54  | 2.15  | 1.81  | 2.06  | 2.58         | 2.22         |
| Initial Time Interval  | 9     | 8.5   | 10    | 7     | 10    | 8            | 11           |
| Pre-Post Time Interval | 27    | 30    | 28.5  | 29    | 28.5  | 29           | 27.5         |

STANFORD-BINET

|                        | E 1   | E 2   | E 3   | E 4   | E 5   | Control<br>6 | Control<br>7 |
|------------------------|-------|-------|-------|-------|-------|--------------|--------------|
| Post S.D.              | 15.40 | 9.74  | 8.78  | 8.86  | 8.94  | 11.74        | 17.59        |
| Pre S.D.               | 13.68 | 14.70 | 11.10 | 9.07  | 9.34  | 11.01        | 16.61        |
| Pre Age Mean           | 66.69 | 66.14 | 65.47 | 66.07 | 66.56 | 66.60        | 65.93        |
| Pre Age S.D.           | 1.84  | 2.54  | 2.18  | 1.81  | 2.39  | 2.61         | 2.20         |
| Post Age Mean          | 72.76 | 72.14 | 71.41 | 71.92 | 72.46 | 72.66        | 72.00        |
| Post Age S.D.          | 1.78  | 2.54  | 2.18  | 1.85  | 2.13  | 2.58         | 2.28         |
| Initial Time Interval  | 7     | 6.5   | 8     | 6     | 7     | 7            | 9            |
| Pre-Post Time Interval | 29    | 32    | 30.5  | 30    | 30.5  | 30           | 29.5         |

TABLE 2 SUPPLEMENT (See Page 37)

Standard Deviations of Pre and Post Means  
on METROPOLITAN Subtests 1, 2, 3

ALABAMA

|           | E 1                    | E 2  | E 3  | E 4  | E 5  | Control<br>6 | Control<br>7 |
|-----------|------------------------|------|------|------|------|--------------|--------------|
|           | <b>1--Word Meaning</b> |      |      |      |      |              |              |
| Post S.D. | 2.54                   | .75  | 1.61 | 1.79 | 1.67 | 1.04         | 4.12         |
| Pre S.D.  | 1.77                   | 3.25 | 1.93 | 2.10 | 2.11 | 1.85         | 2.12         |
|           | <b>2--Listening</b>    |      |      |      |      |              |              |
| Post S.D. | 1.56                   | 1.16 | 2.29 | 1.21 | 2.11 | 1.70         | 2.11         |
| Pre S.D.  | 1.94                   | 2.26 | 2.82 | 2.78 | 2.85 | 1.74         | 2.71         |
|           | <b>3--Matching</b>     |      |      |      |      |              |              |
| Post S.D. | 3.15                   | 2.40 | 2.52 | 2.65 | 3.60 | 2.52         | 2.11         |
| Pre S.D.  | 2.65                   | 1.61 | 1.62 | 3.47 | 1.40 | 2.94         | 2.32         |

5

TABLE 2 SUPPLEMENT (See Page 38)

Standard Deviations of Pre and Post Means

on METROPOLITAN Subtests 4, 5, 6

ALABAMA

|  | E 1 | E 2 | E 3 | E 4 | E 5 | Control 6 | Control 7 |
|--|-----|-----|-----|-----|-----|-----------|-----------|
|--|-----|-----|-----|-----|-----|-----------|-----------|

4--Alphabet

|           |      |      |      |      |      |      |      |
|-----------|------|------|------|------|------|------|------|
| Post S.D. | 5.22 | 1.87 | 4.86 | 4.08 | 5.00 | 5.34 | 5.27 |
| Pre S.D.  | 3.71 | 3.53 | 2.42 | 2.81 | 2.63 | 4.59 | 1.64 |

5--Numbers

|           |      |      |      |      |      |      |      |
|-----------|------|------|------|------|------|------|------|
| Post S.D. | 3.51 | 3.02 | 2.83 | 2.72 | 2.61 | 3.43 | 6.54 |
| Pre S.D.  | 3.37 | 1.79 | 2.37 | 2.65 | 2.35 | 2.98 | 1.94 |

6--Copying

|           |      |     |      |      |      |      |      |
|-----------|------|-----|------|------|------|------|------|
| Post S.D. | 4.67 | .75 | 2.57 | 1.58 | 2.41 | 2.78 | 2.70 |
| Pre S.D.  | 2.21 | .75 | .94  | .64  | .79  | 2.64 | 1.33 |

TABLE 2 SUPPLEMENT (See page 40)

Standard Deviations of Pre and Post Means, Age Means,

Time Interval in Weeks on METROPOLITAN Total Scores

ALABAMA  
=====

|                        | E 1   | E 2   | E 3   | E 4   | E 5   | Control 6 | Control 7 |
|------------------------|-------|-------|-------|-------|-------|-----------|-----------|
| Post S.D.              | 17.57 | 14.14 | 11.46 | 9.51  | 12.58 | 9.75      | 32.79     |
| Pre S.D.               | 10.89 | 11.41 | 9.29  | 10.38 | 7.61  | 17.84     | 13.06     |
| Pre Age Mean           | 67.07 | 66.57 | 65.88 | 66.28 | 66.75 | 66.80     | 66.25     |
| Pre Age S.D.           | 2.06  | 2.22  | 1.96  | 1.72  | 2.29  | 2.65      | 2.49      |
| Post Age Mean          | 73.18 | 71.28 | 73.72 | 72.23 | 73.12 | 72.91     | 71.92     |
| Post Age S.D.          | 1.94  | 5.43  | 4.17  | 1.73  | 2.09  | 2.84      | 3.66      |
| Initial Time Interval  | 8.5   | 9.5   | 11    | 8     | 9.5   | 11        | 12        |
| Pre-Post Time Interval | 27.5  | 29    | 27.5  | 28    | 28.5  | 26        | 26.5      |



TABLE 3 SUPPLEMENT (See page 41)

Standard Deviations of Pre and Post Means

on GATES-MAGGINITIE Subtests 1, 2, 3

ALABAMA

|           | E 1                        | E 2  | E 3  | E 4  | E 5  | Control 6 | Control 7 |
|-----------|----------------------------|------|------|------|------|-----------|-----------|
|           | 1--Listening Comprehension |      |      |      |      |           |           |
| Post S.D. | 2.41                       | 3.35 | 2.21 | 1.98 | 2.93 | 2.59      | 3.41      |
| Pre S.D.  | 2.39                       | 3.62 | 4.49 | 2.73 | 3.04 | 2.45      | 2.64      |
|           | 2--Auditory Discrimination |      |      |      |      |           |           |
| Post S.D. | 3.98                       | 3.15 | 3.25 | 2.59 | 4.58 | 6.47      | 3.46      |
| Pre S.D.  | 2.26                       | 3.98 | 3.42 | 2.86 | 5.16 | 3.49      | 3.06      |
|           | 3--Visual Discrimination   |      |      |      |      |           |           |
| Post S.D. | 3.74                       | 1.49 | 5.95 | 4.09 | 5.22 | 6.43      | 6.00      |
| Pre S.D.  | 2.12                       | 2.13 | 2.59 | 2.64 | 1.63 | 3.82      | 2.08      |

TABLE 3 SUPPLEMENT (See page 42)

Standard Deviations of Pre and Post Means  
on GATES-MAGNITUDE Subtests 4, 5, 6

ALABAMA  
=====

|  | E 1 | E 2 | E 3 | E 4 | E 5 | Control<br>6 | Control<br>7 |
|--|-----|-----|-----|-----|-----|--------------|--------------|
|--|-----|-----|-----|-----|-----|--------------|--------------|

4--Following Directions

|           |      |      |      |      |      |      |      |
|-----------|------|------|------|------|------|------|------|
| Post S.D. | 1.42 | 2.37 | 3.81 | 2.33 | 3.68 | 7.24 | 2.94 |
| Pre S.D.  | 2.50 | 2.96 | 3.52 | 3.20 | 2.77 | 2.68 | 2.99 |

5--Letter Recognition

|           |      |      |      |      |      |       |      |
|-----------|------|------|------|------|------|-------|------|
| Post S.D. | 3.02 | 4.46 | 5.97 | 5.28 | 6.82 | 12.73 | 6.30 |
| Pre S.D.  | 2.28 | 1.79 | 1.37 | 1.66 | .94  | 4.96  | 2.25 |

6--Visual-Motor Coordination

|           |      |      |      |      |      |      |      |
|-----------|------|------|------|------|------|------|------|
| Post S.D. | 2.83 | 1.82 | 4.15 | 3.59 | 4.07 | 4.24 | 3.90 |
| Pre S.D.  | 2.02 | 1.60 | 2.52 | 2.02 | 3.39 | 4.07 | 2.56 |

TABLE 3 SUPPLEMENT (See page 44)

Standard Deviations of Pre and Post Means, Age Means,

Time Interval in Weeks on GATES-MACGINNITIE Subtests 7 & 8 and TOTAL SCORES

ALABAMA

|                        | E 1   | E 2   | E 3   | E 4   | E 5   | Control<br>6 | Control<br>7 |
|------------------------|-------|-------|-------|-------|-------|--------------|--------------|
| 7--Auditory Blending   |       |       |       |       |       |              |              |
| Post S.D.              | 1.92  | 2.99  | 2.02  | 2.56  | 2.80  | 9.74         | 3.58         |
| Pre S.D.               | 1.74  | 2.37  | 2.21  | 1.94  | 1.75  | 1.98         | 1.83         |
| 8--Word Recognition    |       |       |       |       |       |              |              |
| Post S.D.              | 2.00  | 2.11  | 4.16  | 4.50  | 3.82  | 4.42         | 4.83         |
| Pre S.D.               | 3.49  | 2.11  | 2.89  | 3.08  | 2.65  | 2.85         | 3.35         |
| TOTAL SCORES           |       |       |       |       |       |              |              |
| Post S.D.              | 12.75 | 15.26 | 22.10 | 20.83 | 26.58 | 29.50        | 23.75        |
| Pre S.D.               | 8.95  | 10.96 | 14.72 | 11.98 | 16.19 | 19.86        | 13.74        |
| Pre Age Mean           | 67.00 | 66.71 | 66.00 | 65.57 | 66.75 | 66.28        | 66.33        |
| Pre Age S.D.           | 2.00  | 2.49  | 2.09  | 1.65  | 2.01  | 2.61         | 2.25         |
| Post Age Mean          | 69.81 | 68.57 | 65.53 | 68.30 | 73.06 | 69.00        | 68.80        |
| Post Age S.D.          | 4.85  | 5.85  | 6.22  | 5.76  | 2.08  | 5.42         | 5.49         |
| Initial Time Interval  | 9     | 10    | 12    | 8.5   | 10    | 13           | 11           |
| Pre-Post Time Interval | 27    | 28.5  | 26.5  | 27.5  | 28.5  | 25.5         | 26           |

TABLE 4 SUPPLEMENT (See page 46)

Standard Deviations of Pre and Post Means, Age Means,

Time Interval in Weeks on I T P A and STANDORD-BINET

MISSISSIPPI

I T P A

|                        | E 1   | E 2   | E 3   | E 4   | E 5   | Control 6 |
|------------------------|-------|-------|-------|-------|-------|-----------|
| Post S. D.             | 41.03 | 29.46 | 42.16 | 23.11 | 31.29 | 41.07     |
| Pre S. D.              | 37.93 | 41.45 | 39.03 | 42.24 | 34.28 | 35.25     |
| Pre Age Mean           | 53.76 | 59.16 | 57.71 | 58.37 | 59.46 | 55.57     |
| Pre Age S. D.          | 3.41  | 7.80  | 7.53  | 8.15  | 5.54  | 4.97      |
| Post Age Mean          | 58.42 | 64.33 | 63.14 | 63.00 | 64.57 | 60.00     |
| Post Age S. D.         | 2.56  | 7.86  | 8.26  | 8.43  | 5.15  | 4.86      |
| Initial Time Interval  | 2.5   | 7.5   | 6     | 3     | 6     | 6         |
| Pre-Post Time Interval | 37.5  | 32.5  | 34    | 37    | 34    | 34        |

STANFORD-BINET

|                        | E 1   | E 2   | E 3   | E 4   | E 5   | Control 6 |
|------------------------|-------|-------|-------|-------|-------|-----------|
| Post S. D.             | 10.45 | 7.25  | 9.46  | 11.40 | 9.92  | 15.83     |
| Pre S. D.              | 15.22 | *     | 8.67  | 8.14  | 9.67  | 15.75     |
| Pre Age Mean           | 52.38 | --    | 57.84 | 58.25 | 58.58 | 53.92     |
| Pre Age S. D.          | 2.59  | --    | 8.12  | 8.20  | 4.12  | 5.46      |
| Post Age Mean          | 58.07 | 64.16 | 63.00 | 64.50 | 64.14 | 59.46     |
| Post Age S. D.         | 2.55  | 7.64  | 8.24  | 6.98  | 5.00  | 4.77      |
| Initial Time Interval  | 2     | --    | 1     | 2.5   | 1     | 2         |
| Pre-Post Time Interval | 38    | 40    | 39    | 37.5  | 39    | 38        |

TABLE 5 SUPPLEMENT (See page 47)

Standard Deviations of Pre and Post Means

on METROPOLITAN Subtests 1, 2, 3

MISSISSIPPI

|           | E 1             | E 2  | E 3  | E 4  | E 5  | Control 6 |
|-----------|-----------------|------|------|------|------|-----------|
|           | 1--Word Meaning |      |      |      |      |           |
| Post S.D. | 2.45            | 1.55 | 1.51 | 1.30 | 2.53 | 2.60      |
| Pre S.D.  | 2.93            | 1.43 | 2.15 | 2.31 | 2.23 | 1.35      |
|           | 2--Listening    |      |      |      |      |           |
| Post S.D. | 2.49            | 2.87 | 2.46 | 1.92 | 2.63 | 8.79      |
| Pre S.D.  | 3.54            | 2.00 | 3.26 | 3.81 | 3.67 | 1.80      |
|           | 3--Matching     |      |      |      |      |           |
| Post S.D. | 2.09            | 3.31 | 2.45 | 2.29 | 3.69 | 9.35      |
| Pre S.D.  | 1.47            | 2.15 | 2.32 | 1.48 | 3.57 | 1.06      |

TABLE 5 SUPPLEMENT (See page 48)

Standard Deviations of Pre and Post Means  
on METROPOLITAN Subtests 4, 5, 6

MISSISSIPPI  
=====

|           | E 1         | E 2  | E 3  | E 4  | E 5  | Control 6 |
|-----------|-------------|------|------|------|------|-----------|
|           | 4--Alphabet |      |      |      |      |           |
| Post S.D. | 4.03        | 5.05 | 5.78 | 5.09 | 5.63 | 6.24      |
| Pre S.D.  | 1.49        | 2.45 | 2.10 | 4.45 | 3.33 | 1.55      |
|           | 5--Numbers  |      |      |      |      |           |
| Post S.D. | 2.57        | 3.67 | 3.85 | 2.96 | 4.32 | 3.13      |
| Pre S.D.  | 1.98        | 3.25 | 2.02 | 3.64 | 3.65 | 1.79      |
|           | 6--Copying  |      |      |      |      |           |
| Post S.D. | 1.07        | 4.31 | 2.92 | 2.79 | 3.02 | 3.79      |
| Pre S.D.  | 0           | 3.50 | 1.60 | 3.37 | 1.68 | .83       |

TABLE 5 SUPPLEMENT (See page 50)

Standard Deviations of Pre and Post Means, Age Means,  
Time Interval in Weeks on METROPOLITAN Total Scores

MISSISSIPPI

|                        | E 1   | E 2   | E 3   | E 4   | E 5   | Control 6 |
|------------------------|-------|-------|-------|-------|-------|-----------|
| Post S.D.              | 10.39 | 15.10 | 16.22 | 10.23 | 19.15 | 10.86     |
| Pre S.D.               | 8.30  | 10.13 | 11.18 | 14.57 | 15.16 | 5.58      |
| Pre Age Mean           | 53.92 | 59.08 | 59.41 | 58.50 | 59.92 | 55.46     |
| Pre Age S.D.           | 3.33  | 8.02  | 8.46  | 8.10  | 5.23  | 5.12      |
| Post Age Mean          | 58.57 | 64.75 | 63.57 | 63.37 | 64.07 | 60.26     |
| Post Age S.D.          | 2.34  | 7.81  | 8.24  | 8.29  | 6.56  | 4.83      |
| Initial Time Interval  | 4     | 4     | 5     | 2.5   | 5.5   | 6         |
| Pre-Post Time Interval | 36    | 36    | 35    | 37.5  | 34.5  | 34        |

TABLE 6 SUPPLEMENT (See page 51)

Standard Deviations of Pre and Post Means

on GATES-MAGGINITIE Subtests 1, 2, 3

MISSISSIPPI

|           | E 1                               | E 2  | E 3  | E 4  | E 5  | Control 6 |
|-----------|-----------------------------------|------|------|------|------|-----------|
|           | <b>1--Listening Comprehension</b> |      |      |      |      |           |
| Post S.D. | 3.48                              | 2.46 | 3.79 | 3.11 | 4.06 | 3.48      |
| Pre S.D.  | 2.67                              | 4.04 | 2.50 | 4.10 | 2.46 | 2.21      |
|           | <b>2--Auditory Discrimination</b> |      |      |      |      |           |
| Post S.D. | 4.33                              | 3.84 | 5.50 | 2.12 | 4.45 | 3.57      |
| Pre S.D.  | 3.90                              | 4.31 | 4.53 | 5.08 | 4.37 | 5.25      |
|           | <b>3--Visual Discrimination</b>   |      |      |      |      |           |
| Post S.D. | 3.72                              | 4.18 | 4.76 | 4.17 | 5.64 | 4.05      |
| Pre S.D.  | 1.33                              | 3.52 | 2.26 | 3.37 | 4.12 | .82       |



TABLE 6 SUPPLEMENT (See page 52)  
 Standard Deviations of Pre and Post Means  
 on GATES-VACCINITE Subtests 4, 5, 6

MISSISSIPPI  
 =====

|           | E 1                          | E 2  | E 3  | E 4  | E 5  | Control 6 |
|-----------|------------------------------|------|------|------|------|-----------|
|           | 4--Following Directions      |      |      |      |      |           |
| Post S.D. | 2.52                         | 2.41 | 3.47 | 2.53 | 2.97 | 3.79      |
| Pre S.D.  | 2.53                         | 2.80 | 2.42 | 2.35 | 3.60 | 2.70      |
|           | 5--Letter Recognition        |      |      |      |      |           |
| Post S.D. | 6.59                         | 5.01 | 6.22 | 5.33 | 6.10 | 5.91      |
| Pre S.D.  | 1.80                         | 2.54 | 2.37 | 4.94 | 3.22 | 1.16      |
|           | 6--Visual-Motor Coordination |      |      |      |      |           |
| Post S.D. | 3.20                         | 4.96 | 4.97 | 4.22 | 4.86 | 2.44      |
| Pre S.D.  | 1.23                         | 2.28 | 2.20 | 4.40 | 2.70 | 5.52      |



TABLE 6 SUPPLEMENT (See page 54)

Standard Deviations of Pre and Post Means, Age Means,

Time Interval in Weeks on GATES-MAGGINITIE Subtests 7 & 8 and TOTAL SCORES

MISSISSIPPI

|                        | E 1                  | E 2   | E 3   | E 4   | E 5   | Control 6 |
|------------------------|----------------------|-------|-------|-------|-------|-----------|
|                        | 7--Auditory Blending |       |       |       |       |           |
| Post S.D.              | 2.14                 | 3.34  | 1.51  | 2.71  | 2.58  | 2.80      |
| Pre S.D.               | 1.86                 | 3.06  | 2.28  | 2.61  | 1.83  | 1.33      |
|                        | 8--Word Recognition  |       |       |       |       |           |
| Post S.D.              | 3.02                 | 4.23  | 3.56  | 2.06  | 5.48  | 2.85      |
| Pre S.D.               | 2.98                 | 2.87  | 2.12  | 3.83  | 3.42  | 3.67      |
|                        | TOTAL SCORES         |       |       |       |       |           |
| Post S.D.              | 24.50                | 25.08 | 28.61 | 19.37 | 30.97 | 21.57     |
| Pre S.D.               | 13.36                | 19.71 | 15.68 | 26.16 | 20.36 | 18.43     |
| Pre Age Mean           | 51.14                | 57.00 | 58.07 | 57.12 | 59.85 | 54.28     |
| Pre Age S.D.           | 2.50                 | 7.62  | 7.77  | 8.27  | 5.40  | 4.79      |
| Post Age Mean          | 57.84                | 64.91 | 63.07 | 63.12 | 65.07 | 60.20     |
| Post Age S.D.          | 2.51                 | 7.76  | 9.34  | 8.35  | 5.21  | 4.88      |
| Initial Time Interval  | 4.5                  | 5     | 5.5   | 3     | 5     | 6         |
| Pre-Post Time Interval | 35.5                 | 35    | 34.5  | 37    | 35    | 34        |

TABLE 7

Test of Correlation Between Low Test Scores of Samples  
and Parents on Welfare  
and No Male Adult in Household

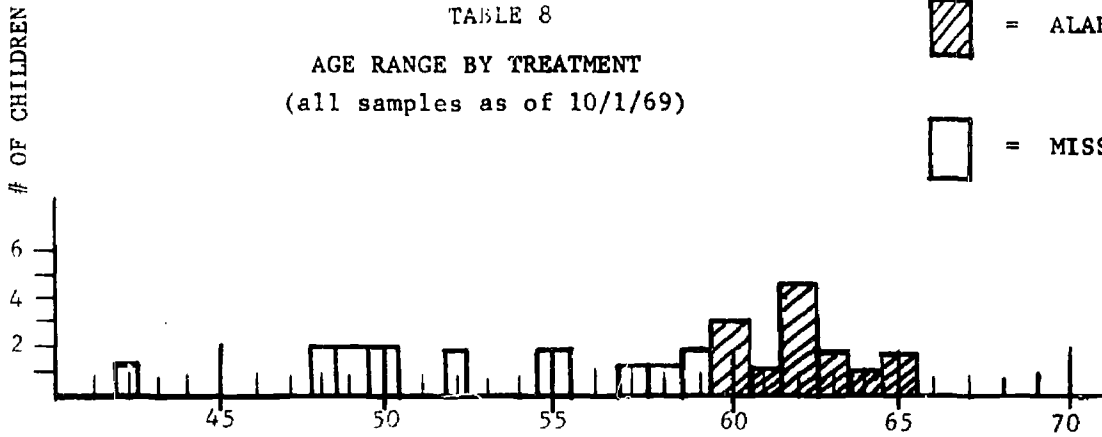
| <u>TREATMENT:</u>  | <u>Total no.<br/>in Class:</u> | <u>Welfare:</u> | <u>IQ<br/>Below 80:</u> | <u>No Male:</u> | <u>IQ<br/>Below 80:</u> | <u>Total in<br/>Class--Post<br/>IQ Below 80:</u> |
|--------------------|--------------------------------|-----------------|-------------------------|-----------------|-------------------------|--|
| Miss. E1           | 14                             | 3               | --                      | 3               | --                      | 2  |
| Ala. E1            | 15                             | 5               | --                      | 3               | --                      | 2  |
| Miss. E2           | 12                             | 2               | --                      | 3               | --                      | --   |
| Ala. E2            | 7                              | 0               | --                      | 1               | --                      | 3  |
| Miss. E3           | 14                             | 0               | --                      | 1               | --                      | 2  |
| Ala. E3            | 14                             | 6               | --                      | 8               | 2                       | 4  |
| Miss E4            | 8                              | 0               | --                      | 0               | --                      | --   |
| Ala. E4            | 16                             | 11              | 3                       | 8               | 3                       | 5  |
| Miss. E5           | 15                             | 0               | --                      | 4               | 2                       | 3  |
| Ala. E5            | 16                             | 10              | 5                       | 10              | 4                       | 6  |
| Miss. Cont.        | 15                             | 0               | --                      | 3               | 1                       | 1  |
| Ala. Cont.         | 14                             | 4               | 2                       | 5               | --                      | 8  |
| Ala. Cont. 2       | 14                             | 7               | 2                       | 5               | 2                       | 3  |
| <b>TOTAL MISS.</b> | <b>78</b>                      | <b>5</b>        | <b>0</b>                | <b>14</b>       | <b>3</b>                | <b>8</b>   |
| <b>TOTAL ALA.</b>  | <b>96</b>                      | <b>43</b>       | <b>12</b>               | <b>40</b>       | <b>11</b>               | <b>31</b>  |

TABLE 8  
 AGE RANGE BY TREATMENT  
 (all samples as of 10/1/69)

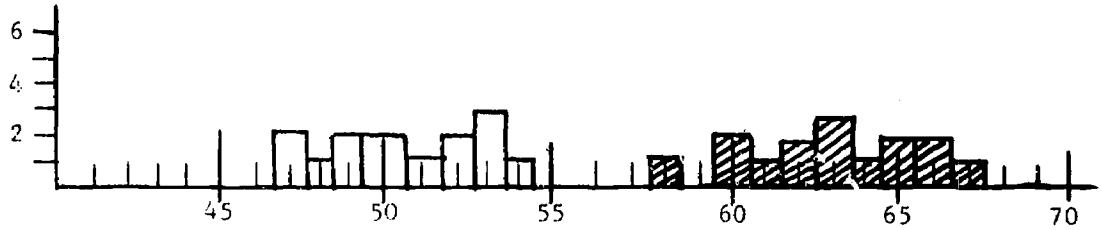
▨ = ALABAMA  
 □ = MISSISSIPPI

TREATMENT:

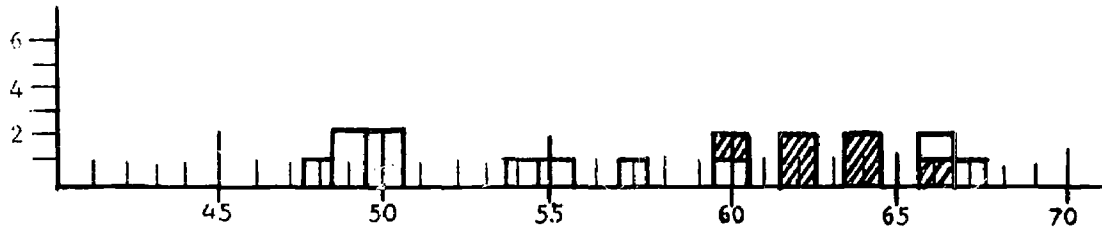
Control



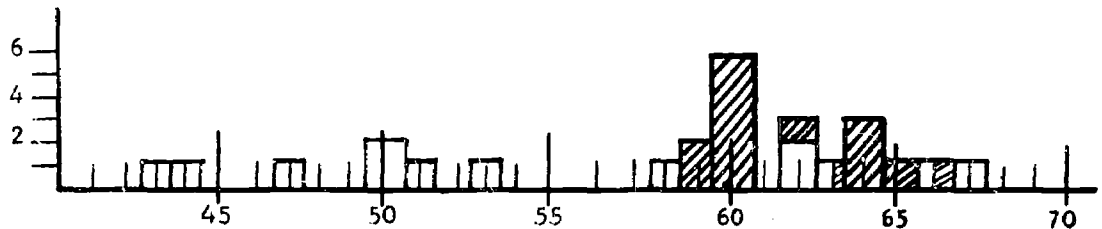
E 1



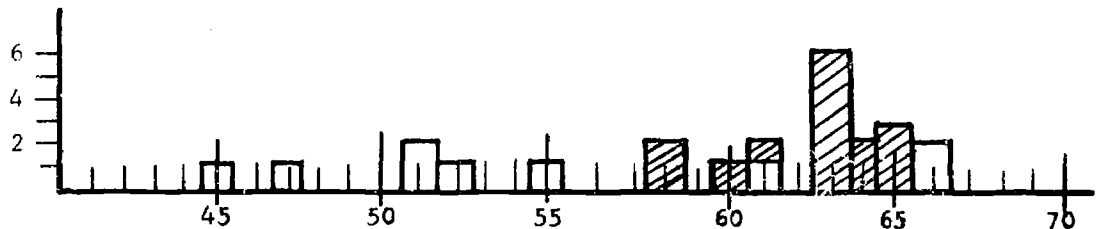
E 2



E 3



E 4



E 5



Control 2

