

DOCUMENT RESUME

ED 132 694

EA 008 981

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 TITLE Description of School Plant Facilities in Tennessee--1973.
 INSTITUTION Tennessee Univ., Knoxville. Bureau of Educational Research and Service.
 PUB DATE 73
 NOTE 503p.

EDRS PRICE MF-\$1.00 HC-\$27.45 Plus Postage.
 DESCRIPTORS Elementary Secondary Education; *Facility Case Studies; Facility Guidelines; *Facility Inventory; Facility Requirements; Principals; School Size; *School Statistics; *School Surveys

IDENTIFIERS *Tennessee

ABSTRACT

Eighty-one percent of Tennessee's public school principals responded to a survey of the physical conditions of their schools. Two sets of 12 criteria were developed, based on the responses, to distinguish adequate and substandard school plants. City systems had more adequate plants than county systems. Secondary and middle schools had more adequate plants than elementary schools. Categorized by size, organizational level, and type of system, medium-sized middle schools in city systems had the largest percentage of adequate plants. Using national enrollment standards, more than one-fourth of all Tennessee schools were too small to permit efficient operation, and one-third contained too many students. Recommendations included consolidation of some of the state's one-, two-, and three-teacher schools and subdivision of some of the largest schools. New construction to alleviate overcrowding and improved building maintenance were priority needs identified by principals. (Author/MLF)

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DESCRIPTION OF SCHOOL PLANT FACILITIES IN TENNESSEE

1973

by

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EA 008 981

ACKNOWLEDGMENTS

The author is indebted to Dr. Charles Peccolo, Director of the Bureau of Educational Research and Service at the University of Tennessee, Knoxville, and to Blanche Lawson, Jackie Jones, Joanne Watson, and Charles Kirkpatrick for their work in designing and field-testing the initial questionnaire for this study.

Special thanks are extended to Paul Bostic, Superintendent of the Anderson County school system; and to the principals of Anderson County who participated in the field test, then supplied school plant information again when the revised questionnaire was distributed on a state-wide basis.

The author acknowledges with gratitude the help of Hubert Dunsmore, Supervisor of Applied Programming at the University of Tennessee Computing Center, who provided competent technical assistance in analyzing the data and presenting the summary in tabular and graphic form.

Finally, the author wishes to thank the superintendents and principals who made this study possible by contributing information on 1451 of Tennessee's public school plants.

TABLE OF CONTENTS

	Page
ACKNOWLEDGMENTS	ii
LIST OF TABLES	vii
LIST OF FIGURES	ix
LIST OF SUMMARY TABLES	x
LIST OF DATA DISPLAYS	xiii

Section

1. INTRODUCTION AND DESCRIPTION OF PROJECT	1
INTRODUCTION	2
BACKGROUND OF THE STUDY	5
PURPOSE	6
SURVEY METHODOLOGY	7
The Survey Instrument	7
School Classification System	8
TREATMENT OF DATA	10
LIMITATIONS OF THE SURVEY	10
ORGANIZATION OF REPORT	14
2. ANALYSIS OF SCHOOL PLANT DATA FOR ALL TENNESSEE SCHOOLS.	15
ENROLLMENT	15
Optimum School Size	15
Overcrowding	23
SIZE OF SITE	23

Section	Page
AGE OF ORIGINAL, ADDITIONAL, AND TEMPORARY STRUCTURES.	28
Additions	30
Temporary Structures	33
ASSESSMENTS USED FOR INSTRUCTION OR OTHER PROGRAMS INVOLVING STUDENTS	34
HEIGHT OF BUILDING	35
EXTERIOR CONSTRUCTION MATERIALS	38
HEATING, COOLING, AND LIGHTING SYSTEMS	39
Heating Equipment	39
Cooling Systems	43
Lighting	45
SOURCES OF WATER SUPPLY	47
PRINCIPALS' PERCEPTIONS OF NEEDS	48
Maintenance Needs	51
Construction Needs	53
Other Responses	55
ABANDONED BUILDINGS	56
PLANT PROFILES	57
'Adequate' Plants	57
'Substandard' Plants	59
3. SCHOOL PLANT DATA FOR TENNESSEE SCHOOLS CATEGORIZED BY GRAND DIVISION OF STATE AND BY ORGANIZATIONAL LEVEL	63
THE DATA CATEGORIES	63
DATA DISPLAYS DEFINED	64

Section	Page
SUMMARY TABLES DEFINED	65
Summary Table 3.12	65
Summary Table 3.13	65
Summary Table 3.14	66
USING DATA DISPLAYS AND SUMMARY TABLES	66
PREPARATION AND POSITIONING OF DATA DISPLAYS	69
SUMMARY TABLES	70
DATA DISPLAYS	84
4. SCHOOL PLANT DATA FOR TENNESSEE SCHOOLS CATEGORIZED BY SIZE, ORGANIZATIONAL LEVEL, AND TYPE OF SYSTEM	145
THE DATA CATEGORIES	145
DATA DISPLAYS DEFINED	146
SUMMARY TABLES DEFINED	147
Summary Table 4.12	147
Summary Table 4.13	148
Summary Table 4.14	148
USING DATA DISPLAYS AND SUMMARY TABLES	148
PREPARATION AND POSITIONING OF DATA DISPLAYS	150
SUMMARY TABLES	152
DATA DISPLAYS	166
5. SUMMARY AND CONCLUSIONS	283
SUMMARY	283
CONCLUSIONS	287

BIBLIOGRAPHY 292

APPENDIXES 295

 A. Survey Instrument 295

 B. Counties in Grand Divisions of Tennessee 301

LIST OF TABLES

Table	Page
2.1 Optimum School Enrollment for Four Organizational Levels	17
2.2 Number and Percentage of All Tennessee Schools Occurring in Various Enrollment Size Categories . . .	18
2.3 Number and Percentage of Elementary Schools in Tennessee Occurring in Various Enrollment Size Categories	19
2.4 Number and Percentage of Middle Schools in Tennessee Occurring in Various Enrollment Size Categories . . .	20
2.5 Number and Percentage of Secondary Schools in Tennessee Occurring in Various Enrollment Size Categories . .	21
2.6 Number and Percentage of Combined Schools in Tennessee Occurring in Various Enrollment Size Categories . . .	22
2.7 Number and Percentage of All Tennessee Schools Meeting Site Size Requirements at Each of Four Organizational Levels	28
2.8 Number and Percentage of All Tennessee School Buildings Occurring at Specified Stages of the School Life Cycle	31
2.9 Number and Percentage of Public School Buildings in Tennessee Constructed or Added in Specified Decades, 1840-1973	31
2.10 Number and Percentage of Public School Buildings in Tennessee Utilizing Basements for Instruction or Other Programs Involving Students	34
2.11 Number and Percentage of Public School Buildings in Tennessee Having Specified Numbers of Stories (Excluding Basement)	37
2.12 Number and Percentage of Public School Buildings in Tennessee Using Selected Exterior Construction Materials	40

Table	Page
2.13 Number and Percentage of Public School Buildings in Tennessee Using Central and/or Space Heating Equipment	42
2.14 Number and Percentage of Public School Buildings in Tennessee Having Specified Types of Cooling Equipment	42
2.15 Number and Percentage of Public School Buildings in Tennessee Using Specified Types of Lighting in Instructional Areas	42
2.16 Plant Profiles: All Tennessee Schools	62

LIST OF FIGURES

Figure		Page
1.1	Data Analysis Categories (Numbered 1-37)	11
2.1	Number and Percentage of All Tennessee Schools Using Specified Proportions of School Plant Capacity.	24
2.2	Number and Percentage of All Tennessee Schools Having Sites of Specified Sizes (In Acres)	26
2.3	Number and Percentage of All Tennessee Schools Using Specified Sources of Water Supply	49
2.4	Number and Percentage of Tennessee Public School Principals Expressing Specified Facility Needs . . .	50
3.1	Number of Survey Respondents in Each of Twelve School Categories	63
4.1	Number of Survey Respondents in Each of Twenty-Four School Categories	145

LIST OF SUMMARY TABLES

Summary Table	Page
3.1 Percentage of Tennessee Schools in Each of Twelve Categories Rated 'Adequate' or 'Substandard' According to Criterion 1 (Enrollment/Capacity ratio less than or equal to 1)	71
3.2 Percentage of Tennessee Schools in Each of Twelve Categories Rated 'Adequate' or 'Substandard' According to Criterion 2 (Meets National School Size Standards)	72
3.3 Percentage of Tennessee Schools in Each of Twelve Categories Rated 'Adequate' or 'Substandard' According to Criterion 3 (Meets National Site Size Standards)	73
3.4 Percentage of Tennessee Schools in Each of Twelve Categories Rated 'Adequate' or 'Substandard' According to Criterion 4 (Original Building thirty years old or less)	74
3.5 Percentage of Tennessee Schools in Each of Twelve Categories Rated 'Adequate' or 'Substandard' According to Criterion 5 (No Temporary Structures) .	75
3.6 Percentage of Tennessee Schools in Each of Twelve Categories Rated 'Adequate' or 'Substandard' According to Criterion 6 (No Basement used for Instruction)	76
3.7 Percentage of Tennessee Schools in Each of Twelve Categories Rated 'Adequate' or 'Substandard' According to Criterion 7 (No Building of Wood Exclusively)	77
3.8 Percentage of Tennessee Schools in Each of Twelve Categories Rated 'Adequate' or 'Substandard' According to Criterion 8 (Central Heating in Original Building)	78
3.9 Percentage of Tennessee Schools in Each of Twelve Categories Rated 'Adequate' or 'Substandard' According to Criterion 9 (Central Air or All Window Units)	79

Summary Table

Page

3.10	Percentage of Tennessee Schools in Each of Twelve Categories Rated 'Adequate' or 'Substandard' According to Criterion 10 (Complete Fluorescent Lighting)	80
3.11	Percentage of Tennessee Schools in Each of Twelve Categories Rated 'Adequate' or 'Substandard' According to Criterion 11 (Use of Water Utility) . .	81
3.12	Percentage of Tennessee Schools in Each of Twelve Categories Rated 'Adequate' or 'Substandard' According to Criterion 12 (Meets 7 of 11 of Above Criteria)	82
3.13	Number and Percentage of Schools in West, Middle and East Tennessee Rated 'Adequate' or 'Substandard' According to Criterion 12 (Meets 7 of 11 of Above Criteria)	83
3.14	Number and Percentage of Elementary, Middle, Secondary and Combined Schools in Tennessee Rated 'Adequate' or 'Substandard' According to Criterion 12 (Meets 7 of 11 of Above Criteria)	83
4.1	Percentage of Tennessee Schools in Each of Twenty-Four Categories Rated 'Adequate' or 'Substandard' According to Criterion 1 (Enrollment/Capacity ratio less than or equal to 1)	153
4.2	Percentage of Tennessee Schools in Each of Twenty-Four Categories Rated 'Adequate' or 'Substandard' According to Criterion 2 (Meets National School Size Standards)	154
4.3	Percentage of Tennessee Schools in Each of Twenty-Four Categories Rated 'Adequate' or 'Substandard' According to Criterion 3 (Meets National Site Size Standards)	155
4.4	Percentage of Tennessee Schools in Each of Twenty-Four Categories Rated 'Adequate' or 'Substandard' According to Criterion 4 (Original Building thirty years old or less)	156
4.5	Percentage of Tennessee Schools in Each of Twenty-Four Categories Rated 'Adequate' or 'Substandard' According to Criterion 5 (No Temporary Structures) .	157

Summary Table	Page
4.6 Percentage of Tennessee Schools in Each of Twenty-Four Categories Rated 'Adequate' or 'Substandard' According to Criterion 6 (No Basement used for Instruction)	158
4.7 Percentage of Tennessee Schools in Each of Twenty-Four Categories Rated 'Adequate' or 'Substandard' According to Criterion 7 (No Building of Wood Exclusively)	159
4.8 Percentage of Tennessee Schools in Each of Twenty-Four Categories Rated 'Adequate' or 'Substandard' According to Criterion 8 (Central Heating in Original Building)	160
4.9 Percentage of Tennessee Schools in Each of Twenty-Four Categories Rated 'Adequate' or 'Substandard' According to Criterion 9 (Central Air or all Window Units)	161
4.10 Percentage of Tennessee Schools in Each of Twenty-Four Categories Rated 'Adequate' or 'Substandard' According to Criterion 10 (Complete Fluorescent Lighting)	162
4.11 Percentage of Tennessee Schools in Each of Twenty-Four Categories Rated 'Adequate' or 'Substandard' According to Criterion 11 (Use of Water Utility) . .	163
4.12 Percentage of Tennessee Schools in Each of Twenty-Four Categories Rated 'Adequate' or 'Substandard' According to Criterion 12 (Meets 7 of 11 of above criteria)	164
4.13 Number and Percentage of Small, Medium and Large Schools Rated 'Adequate' or 'Substandard' According to Criterion 12 (Meets 7 of 11 of Above Criteria)	165
4.14 Number and Percentage of Tennessee Schools in County and City/Special Systems Rated 'Adequate' or 'Substandard' According to Criterion 12 (Meets 7 of 11 of Above Criteria)	165

LIST OF DATA DISPLAYS

Data Display	Page
3.1 Elementary Schools in West Tennessee	85
3.2 Middle Schools in West Tennessee	90
3.3 Secondary Schools in West Tennessee	95
3.4 Combined Schools in West Tennessee	100
3.5 Elementary Schools in Middle Tennessee	105
3.6 Middle Schools in Middle Tennessee	110
3.7 Secondary Schools in Middle Tennessee	115
3.8 Combined Schools in Middle Tennessee	120
3.9 Elementary Schools in East Tennessee	125
3.10 Middle Schools in East Tennessee	130
3.11 Secondary Schools in East Tennessee	135
3.12 Combined Schools in East Tennessee	140
4.1 Small Elementary Schools in County Systems	167
4.2 Medium Elementary Schools in County Systems	172
4.3 Large Elementary Schools in County Systems	177
4.4 Small Middle Schools in County Systems	182
4.5 Medium Middle Schools in County Systems	187
4.6 Large Middle Schools in County Systems	192
4.7 Small Secondary Schools in County Systems	197
4.8 Medium Secondary Schools in County Systems	202
4.9 Large Secondary Schools in County Systems	207
4.10 Small Combined Schools in County Systems	212
4.11 Medium Combined Schools in County Systems	217
4.12 Large Combined Schools in County Systems	222

Data Display	Page
4.13 Small Elementary Schools in City/Special Systems . . .	227
4.14 Medium Elementary Schools in City/Special Systems . . .	232
4.15 Large Elementary Schools in City/Special Systems . . .	237
4.16 Small Middle Schools in City/Special Systems	242
4.17 Medium Middle Schools in City/Special Systems	247
4.18 Large Middle Schools in City/Special Systems	252
4.19 Small Secondary Schools in City/Special Systems	257
4.20 Medium Secondary Schools in City/Special Systems	258
4.21 Large Secondary Schools in City/Special Systems	263
4.22 Small Combined Schools in City/Special Systems	268
4.23 Medium Combined Schools in City/Special Systems	273
4.24 Large Combined Schools in City/Special Systems	278

Section 1

INTRODUCTION AND DESCRIPTION OF PROJECT

INTRODUCTION

A 1967 publication of the American Association of School Administrators entitled Schools for America contained this enthusiastic statement of the importance some would place on the quality of physical facilities for educating America's young people:

The school building at its best engenders a climate that brings out the best in people. In its totality--site, building mass, form, design, and overall relationships--it is pleasurable to the senses and exalts the mind and the spirit.

A well designed building can give pleasure, it can stimulate, it can relax. . . It should capture the spirits of young people and consciously seek to make favorable impressions on their lives. A truly fine school can become a symphony of delight (1, p. 35).

The Foreword of the National Inventory of School Facilities and Personnel which was conducted in 1962 began with this statement: "The effectiveness of the educational program and process depends upon the quality and adequacy of school personnel and facilities (7, p. iii)." At the time, few educators would have argued with the logic of this generalization and it remained virtually unchallenged until the appearance in 1966 of the so-called "Coleman Report."

James Coleman and others conducted a national survey of educational facilities, gathering such information as the average number of instructional rooms per building; the average number of improvised or make-shift instructional rooms per building; the percentage of students in school plants less than 20 years of age, 20 to 39 years of age, and 40 years of age or more; the average number of pupils per instructional room and per teacher; the average total enrollment at each school; the proportion of schools having an auditorium, cafeteria, gym, and other special rooms or laboratories, the quality of the library facilities.

Coleman concluded from his analysis of the data that it was socio-economic factors that accounted for most of the differences in pupil achievement. When these factors were statistically controlled only a fraction of the differences could be attributed to differences between schools (6).

Christopher Jencks and others (3) more recently completed an extensive study that convinced them that the long-term effect of schooling is so small in comparison with the effect of a student's entering characteristics and his experiences outside the school, that improvements in the quality of schools can make only minute changes in the cognitive inequality that exists between individuals and between races. In fact, eliminating qualitative differences between elementary schools would reduce the range of scores on standardized tests in sixth grade by less than 3 percent.

If the quality of educational facilities has so little effect on the progress of the individual, why devote any time to assessing the status of such facilities?

First, it has been argued that schooling itself has a minimal effect on an individual's progress, yet there is no serious plan at this point to abolish schools. If educational institutions are going to continue to function, we may as well study the facilities that house them in an attempt to make these facilities contribute as much as possible to the educational process.

Secondly, James Coleman pointed out that schools do differ in their relation to various racial and ethnic groups: the achievement of minority pupils depends more on the schools they attend than does the achievement of majority pupils (6, p. 22). Thus, improving the quality of the schools of

the disadvantaged could contribute more to increasing achievement than would improving the quality of middle-class schools.

Even Christopher Jencks has said that schools, with all their shortcomings, should be evaluated on the basis of whether students and teachers find them satisfying places to be. The school environment should be an enjoyable one.

Along the same lines, the test of good schools is, "Do we like them?" according to Educational Facilities Laboratories (16, p. 9).

Finally, and perhaps most importantly, the behavioral sciences provide ample research evidence that growth and learning are affected by the environment in which they take place. Children boil over with restlessness in a cold room, daydream in a hot room, and seek the light in a dark room (13, p. 175). Just as the child who is consistently hungry cannot properly focus his attention on his school work, the child who is too hot or too cold in his room, who is crowded with others in a space too small for his group, or who tries to read in a poorly lighted room also finds it hard to concentrate on learning. A school can hardly be a satisfying place to be if it does not satisfy one's basic physiological needs.

Innovative approaches in curriculum and programming could conceivably have more impact on children than do present approaches, yet physical facilities may need extensive modification to allow these approaches to be implemented. A survey of 700 school principals in large cities which was conducted by the National Association of Secondary School Principals in 1970 indicated that almost one-third of the principals felt substantially constrained during the past five years in designing new educational programs by limitations

in their physical facilities (16, p. 12).

Just how constrained do principals in Tennessee feel by limitations in their physical facilities? How well are the schools in Tennessee meeting the physiological needs of students? A few pertinent local surveys were found, but a check of State records and recent studies related to educational facilities indicated that there was no collection of data on a Statewide basis that would provide answers to these questions.

A number of master's and doctor's theses completed at the University of Tennessee have described certain school facilities (11) and the extent of their use (12), either in a particular community, or in a particular curriculum area (17). School surveys and evaluations conducted by the Bureau of Educational Research and Service (22) and the School Planning Laboratory at UT, and by other college of education or university divisions have included attempts to assess the adequacy of school plant facilities in a given community or school district. Some writers have attempted to outline specifications for school plant facilities in general (21), or in connection with a given curriculum area (10).

In 1973 no current Statewide inventory of school plant facilities could be located. This study was designed to fulfill that need. The survey should be useful in assessing present status of facilities and suggesting to what extent future construction and renovation projects are needed to assure that Tennessee's school children can obtain an education in adequate facilities. Tennessee's legislative representatives at the state and national levels should have the facts from a study of this sort. At the local level voters need current information on the status of facilities in order to fully appreciate the need for passage of school bond issues. The need for facts to convince voters



seemed especially critical in the 1970s since the voters rejected more than half the requested funds for school construction in 1969 and 1970. This was the first time on record that approvals had fallen below the 50 percent level. In 1965, for example, nearly 80 percent of the funds requested were approved (16, p. 9).

BACKGROUND OF THE STUDY

During the Fall Quarter of 1972 at the University of Tennessee, Knoxville a group of the writer's students in a research methods course elected as their term project the development of a proposal to survey school plant facilities in Tennessee. In initiating this project the students were supervised by Dr. Charles Peccolo, Director of the Bureau of Educational Research and Service. After extensive reading in the area of school facility planning, these students, with Dr. Peccolo's assistance, designed a questionnaire which they felt would provide a reasonably comprehensive profile of school facilities, and would be suitable for Statewide distribution.

Since one of the students taught in the Anderson County school system, permission was secured from the Anderson County Superintendent, Mr. Paul Bostic, to permit a field test of the instrument within his system. Copies of the questionnaire were given to all Anderson County principals. They were asked to complete the instrument and to comment on its contents.

The first questionnaire was more detailed than the revised copy that eventually was distributed Statewide. Feedback from the seventeen Anderson County principals who responded in the field test suggested that some of the detail needed to be eliminated. An item calling for description of materials

used to construct interior walls, floors, ceilings, windows, and doors proved troublesome due to a lack of standardization among principals of terms for certain building materials, and because a variety of materials might be used in different rooms within a given school. An item calling for number of rooms used for various purposes within the school was deleted because a given room might be used in several ways within the course of a day. It appeared that only an on-site interview or inspection tour could insure a valid response to items such as these.

Following the field test of the instrument the responsibility for this project shifted from the group of students to the staff of the Bureau of Educational Research and Service at the University of Tennessee, Knoxville.

PURPOSE

In the interest of obtaining an overall picture of school plant facilities in Tennessee the decision was made by project staff to give all public school principals in the State an opportunity to submit information on their schools. Thus the comprehensive questions that would have necessitated individual interviewing were sacrificed.

The final questionnaire contained a minimum of items in order to cut the time needed for responding and thus maximize the rate of return. It was designed to present a skeletal profile of a school plant: its age, the modernity of its physical facilities, the adequacy of its site size. Extent of overcrowding, if any, could be calculated using responses to items on present enrollment and 'maximum number of students for which the school plant is designed.' One item sought information on the presence of abandoned buildings

on the school site. Finally, principals were given an opportunity to amplify their responses with comments and to indicate whether they perceived maintenance of present facilities or construction of new ones as their greatest need at present.

SURVEY METHODOLOGY

The Survey Instrument

A four-page questionnaire entitled "Description of School Plant Facilities in Tennessee" was formulated for distribution to principals of all public schools in Tennessee. A copy of the questionnaire appears in Appendix A. Page One of the instrument contained the following set of definitions which was used to standardize the meanings of terms used in the questionnaire:

School Plant - A site and buildings constituting the physical facilities used by a single school.

Original - That building being used now which was constructed and occupied earliest of all buildings currently in use.

Additions - Spaces added to the original building which are permanent in nature.

Temporary - Spaces added in the immediate proximity of the original building which can be moved to other sites.

Basement - Space which is below ground level (requiring window wells) on all sides.

A listing of all public schools was obtained from DIRECTORY of Public Schools for 1972-1973 (20).

Prior to mailing the questionnaire to principals a letter was sent to the 147 school superintendents listed in the DIRECTORY to acquaint them with the nature of the project and to enlist their support and cooperation in facilitating the return of completed questionnaires from their districts. The letter to superintendents was mailed at the end of February 1973. During the first week of March explanatory cover letters (see Appendix A) and questionnaires were sent to each of the 1783 principals of public schools listed in the DIRECTORY.¹ Principals were asked to return completed forms to the Bureau of Educational Research and Service at the University of Tennessee by March 16, 1973.

During the last week of March follow-up letters were mailed to principals who had not yet responded, urging them to complete the survey instrument.

Three superintendents volunteered to supply information on all schools in their districts, but all other forms were completed by principals. Completed questionnaires were received from 1451 schools or 81.4 percent of the State's public schools. Replies were received from every school district in the State (the reply from one small city district was not usable, however).

School Classification System

For the purposes of this study Tennessee's public schools were classified in a number of ways.

- 1) Type of System
 - a. County
 - b. City, Town, or Special District

(NOTE: Information on system type was obtained from DIRECTORY of Public Schools for 1972-1973 (20).)

¹No printed listing of public schools could be considered totally accurate because clerical errors inevitably creep into so large a system, and because old schools had closed and new schools had opened since the DIRECTORY was published in February 1973. Feedback obtained in the course of mailings to principals caused three schools to be deleted from the DIRECTORY listing and one school to be added (i.e., three schools had closed and one had opened). Thus the results of this survey were based on the assumption that there were approximately 1783 public schools in Tennessee at the time the study was conducted.

2) Organizational Level

- a. Elementary - schools consisting primarily of grades K-6, e.g., grade spreads of K-6, K-8, K-9, 1-6, 3-4, 4-6, and special education schools for students of elementary age.
- b. Middle - schools consisting primarily of grades 5-8, e.g., grade spreads of 5-8, 6-9, 7-8, 7-10, etc.
- c. Secondary - schools consisting primarily of grades 9-12, e.g., grade spreads of 9-12, 10-12, 7-12, 9-11, 11-12, etc.
- d. Combined (and Unknown) - schools consisting of grades K-12 or 1-12; and special schools with a grade spread characterized in the DIRECTORY as "unknown."

(NOTE: Information on grade spread at each school was obtained from the DIRECTORY (20).)

3) School Size (in terms of student enrollment on September 30, 1972)

On the basis of responses to the first item on the questionnaire, "How many students were enrolled at your school as of September 30, 1972?" three categories¹ of school size were designated:

- a. Small - enrollment below 350
- b. Medium - enrollment 350-699
- c. Large - enrollment 700 or above.

4) Grand Division of the State

A listing supplied by the State Department of Education (see

¹A frequency distribution based on a sample of early questionnaire returns indicated that use of these categories would probably come closest to dividing the total number of schools into three equivalent parts, while maintaining a reasonable definition for the 'small' school and the 'large' school. In the final sample 33.7 percent of the schools were classified as 'small,' 42.5 percent as 'medium' and 23.8 percent as 'large'.

Appendix B) was used to determine whether schools were located in counties in

- a. West Tennessee
- b. Middle Tennessee
- c. East Tennessee

TREATMENT OF DATA

All questionnaire responses were keypunched, then processed using an IBM 360/65 computer. Responsibility for keypunching and programming was carried out by personnel at the University of Tennessee Computing Center.

Data were analyzed according to a classification scheme that included thirty-seven separate categories. These categories are defined and numbered in Figure 1.1.

LIMITATIONS OF THE SURVEY

The principal of every public school in Tennessee (as listed in DIRECTORY of Public Schools for 1972-1973 (20)) was given an opportunity to submit data on his school plant for the purposes of this study. The rate of return, 87.4 percent, was considered excellent. But it must be kept in mind that data from 18.6 percent of the schools were not supplied. In all likelihood the addition of data from these schools would not have made an appreciable difference in the trends established, but the slight possibility of such differences cannot be ignored.

When dealing with such a large quantity of questionnaires it is nearly impossible to avoid finding some omissions among the response categories. As questionnaires were returned they were checked for completeness, and those found to contain omissions in three or more response categories were mailed

1 All Tennessee Schools

West Tennessee			Middle Tennessee				East Tennessee				County System												City, Town & Special District System																							
Elementary			Elementary				Elementary				Elementary				Middle				Middle				Middle				Middle				Secondary				Secondary				Secondary				Combined (and Unknown)			
2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37											
Elementary	Middle	Secondary	Combined (and Unknown)	Elementary	Middle	Secondary	Combined (and Unknown)	Elementary	Middle	Secondary	Combined (and Unknown)	Small	Medium	Large	Small	Medium	Large	Small	Medium	Large	Small	Medium	Large	Small	Medium	Large	Small	Medium	Large	Small	Medium	Large	Small	Medium	Large											

Figure 1.1 Data Analysis Categories (Numbered 1-37)

back to the respondents with a request for the missing data. More than 95 percent of the questionnaires that were mailed back to respondents were returned with the missing data supplied. Even this procedure did not result in the filling of all blanks, however. Consequently, in some response categories the descriptive statistics for the data summary had to be calculated on the basis of number of responses rather than on 1451 total questionnaires analyzed. Fortunately, the number of principals responding to any one item never fell below 1403, so statistics based on number of responses actually differed very little from those that might have been calculated on the basis of 1451 responses.

Early in the course of developing the survey methodology for this project the decision was made to attempt to gather data from all public schools in the State. Thus the comprehensive questions that might have been asked of a small sample, or in an interview at a school site, were sacrificed in favor of a smaller number of items that could be understood easily and answered relatively quickly. The result may disappoint those who had hoped for a complete and detailed picture of the condition of school plant facilities in Tennessee. What emerged was a skeletal profile of school plants: chiefly, their age, modernity of their physical facilities, extent of overcrowding (if any), and adequacy of site size. The statewide coverage did provide, however, the benefit of meaningful comparisons between profiles of schools of various system types, sizes, organizational levels, and regions (i.e., Grand Divisions) of the State.

Finally, there was the problem of accuracy of the responses that were received. In spite of all attempts to clarify questions in order to assure uniform interpretation, feedback from participants indicated that some items

still were ambiguous.

Some principals argued that school 'capacity' is not a constant figure, but can vary depending on the type of program being conducted. Certainly there is justification for this point of view, but the intent of the question was to standardize responses by calling for the maximum number of students for which the school plant was designed originally.

Apparently some respondents were unable to distinguish between 'central' and 'space' with regard to 'type of heating equipment.' Parenthetical phrases were added in the questionnaire to indicate that 'central' heating meant a 'system for an entire building,' while 'space' heaters referred to 'individual room units,' but there was still confusion because most 'central' systems have some sort of individual room units to disperse heated air from a central source.

The alternatives under 'type of cooling equipment' were designed to indicate that window units for individual rooms constituted a type of 'mechanical cooling system.' A few principals, however, checked the 'window units for individual rooms' alternative if the rooms in their schools had windows that could be opened to aid in cooling.

Finally, a few principals wrote in 'light bulbs' as 'principal type of lighting system in instructional areas,' thus indicating that they were probably not familiar with the term 'incandescent,' which was one of the alternatives.

ORGANIZATION OF REPORT

This report is divided into seven sections, including a bibliography and appendixes. Section 1 provides an introduction and description of the project. Sections 2, 3, and 4 present the data analyses. Section 2 provides information on all Tennessee schools, accompanied by a rationale for questionnaire items and for interpretation of the data obtained. Section 3 provides information on schools in twelve categories based on three Grand Divisions of the State and four organizational levels. Section 4 provides information on schools in twenty-four categories based on three school sizes, four organizational levels, and two system types.

Section 5 presents a summary and conclusions. The bibliography follows Section 5. Appendix A contains the cover letter to principals and the questionnaire used in this study. Appendix B consists of a listing of counties in each Grand Division of the State.

Section 2

ANALYSIS OF SCHOOL PLANT DATA FOR ALL TENNESSEE SCHOOLS

Usable questionnaires were received from a total of 1451 schools. This represented a return of 81.4 percent since questionnaires were mailed to each of the 1783 principals of public schools listed in DIRECTORY of Public Schools for 1972-1973 (20). Hereafter the term 'all Tennessee schools' is used to refer to the 1451 public schools for which usable questionnaires were available.

In many of the response categories there were a few questionnaires that contained no information. Thus several of the tables that summarize the data include an entry labeled 'no response.' All percentages reported for actual questionnaire items were based on the figure that appears as the 'total' for each of the items. In most cases this is 1451, but in some categories the figure is less than 1451 due to lack of response.

In this section of the report all statistics pertain to the category 'all Tennessee schools.' Accompanying the statistics is a discussion of (1) the questionnaire items used to collect the data from which the statistics were derived and (2) the bases for interpretation of the statistics.

ENROLLMENT

Optimum School Size

The optimum size of a school is a matter that varies according to the educational program being provided and the policies of the given school district. The school should be large enough to take advantage of certain economies of operation, but not so large that students feel lost or overwhelmed.

At the elementary level the Council of Educational Facility Planners recommends a minimum enrollment of 300 pupils for educational efficiency and operational economy (8, p. 31). If the enrollment exceeds 500 educational disadvantages tend to offset any advantages offered by economy of operation. The criterion might be stated, "If the principal can't remember the names of all his students, the school is too big" (13, p.28).

Optimum school size at the secondary level is particularly hard to calculate because of the wide variety of subjects students may elect. However, a minimum of 300 students is generally recommended to take advantage of economies of operation. Educational opportunities and operational economies increase greatly as the secondary enrollment figure approaches 500, and slightly as the figure climbs to 800. But past the 1000-student mark educational disadvantages outweigh any further advantages of increased size (8, p. 32).

The Council of Educational Facility Planners did not include minimum and maximum enrollment figures for middle and combined schools in the 1969 Guide (8). However, from the guidelines stated above it might be inferred that neither type of school should enroll fewer than 300 students. Other sources have suggested that middle school enrollments should not exceed 700, while combined¹ school enrollments should not exceed 1000.

Table 2.1 presents the optimum enrollment figures for each organizational level.

¹In Sections 2, 3, and 4 the organizational level 'combined (and unknown)' has been abbreviated as 'combined.'

Table 2.1 Optimum School Enrollment for Four Organizational Levels

Organizational Level	Optimum Size
Elementary	300 - 500 students*
Middle	300 - 700 students
Secondary	300 - 1000 students *
Combined	300 - 1000 students

*Recommendations of Council of Educational Facility Planners (8, pp. 31-32)

Tables 2.2-2.6 present information on school size in Tennessee obtained from responses to the item in the questionnaire "Description of School Plant Facilities in Tennessee" which was stated, "How many students were enrolled at your school as of September 30, 1972?"

These figures reveal that, at least according to the Council of Educational Facility Planners, there were at the time of this study some schools in Tennessee that did not meet optimum enrollment standards. More than one-fourth (26.5 percent) of all Tennessee schools were too small, i.e., they had fewer than 300 students. Looking at these data by organizational level, 35.8 percent of the elementary schools were too small; 4.6 percent of the middle schools fell below the minimum standard; 4.3 percent of the secondary schools were too small; and 16.7 percent of the combined schools were underenrolled.

At the opposite end of the continuum, 34.7 percent of Tennessee's elementary schools had an enrollment that exceeded the maximum of 500 students set by the Council of Educational Facility Planners. At the other

Table 2.2 Number and Percentage of All Tennessee Schools
Occurring in Various Enrollment Size Categories

Enrollment	Frequency	Percentage
1 - 100	87	6.0
101 - 299*	296	20.5
300 - 500	407	28.2
501 - 700	316	21.9
701 - 1000	202	14.0
1001 - 1500	111	7.7
1501 - 2000	22	1.5
2001 - 9999	<u>2</u>	<u>0.1</u>
TOTAL	1443	100.0

*This interval was used to determine the number of schools enrolling fewer than 300 students, since the standard for minimum school size set by the Council of Educational Facility Planners (8, pp. 31-32) was stated in this manner.

Table 2.3 Number and Percentage of Elementary Schools in Tennessee Occurring in Various Enrollment Size Categories

Enrollment	Frequency	Percentage
1 - 100	82	8.3
101 - 299*	272	27.5
300 - 500	291	29.5
501 - 700	217	22.0
701 - 1000	103	10.4
1001 - 1500	22	2.2
1501 - 2000	1	0.1
2001 - 9999	<u>0</u>	<u>0.0</u>
TOTAL	988	100.0

*This interval was used to determine the number of schools enrolling fewer than 300 students, since the standard for minimum school size set by the Council of Educational Facility Planners (8, pp. 31-32) was stated in this manner.

Table 2.4 Number and Percentage of Middle Schools in Tennessee
Occurring in Various Enrollment Size Categories

Enrollment	Frequency	Percentage
1 - 100	0	0.0
101 - 299*	7	4.6
300 - 500	32	21.2
501 - 700	39	25.8
701 - 1000	45	29.8
1001 - 1500	26	17.2
1501 - 2000	2	1.3
2001 - 9999	<u>0</u>	<u>0.0</u>
TOTAL	151	100.0

*This interval was used to determine the number of schools enrolling fewer than 300 students, since the standard for minimum school size set by the Council of Educational Facility Planners (8, pp. 31-32) was stated in this manner.

Table 2.5 Number and Percentage of Secondary Schools in Tennessee
Occurring in Various Enrollment Size Categories

Enrollment	Frequency	Percentage
1 - 100	2	0.9
101 - 299*	8	3.4
300 - 500	55	23.7
501 - 700	36	15.5
701 - 1000	49	21.1
1001 - 1500	62	26.7
1501 - 2000	18	7.8
2001 - 9999	<u>2</u>	<u>0.9</u>
TOTAL	232	100.0

*This interval was used to determine the number of schools enrolling fewer than 300 students, since the standard for minimum school size set by the Council of Educational Facility Planners (8, pp. 31-32) was stated in this manner.

Table 2.6 Number and Percentage of Combined Schools in Tennessee
Occurring in Various Enrollment Size Categories

Enrollment	Frequency	Percentage
1 - 100	3	4.2
101 - 299*	9	12.5
300 - 500	29	40.3
501 - 700	24	33.3
701 - 1000	5	6.9
1001 - 1500	1	1.4
1501 - 2000	1	1.4
2001 - 9999	<u>0</u>	<u>0.0</u>
TOTAL	72	100.0

*This interval was used to determine the number of schools enrolling fewer than 300 students, since the standard for minimum school size set by the Council of Educational Facility Planners (8, pp. 31-32) was stated in this manner.

levels, 48.3 percent of the middle schools exceeded the maximum of 700; 35.4 percent of the secondary schools exceeded the maximum of 1000; and 2.8 percent of the combined schools exceeded the 1000 mark.

Overcrowding

According to Candoli (4), crowded conditions in a school can have deleterious effects on programming. When facilities are too small to accommodate the number of students to be served, the desired educational program may have to be modified or even curtailed.

Schools are usually designed to serve some general number of students when operating at capacity. Comparing this capacity enrollment figure for each school in Tennessee with that school's enrollment as of September 30, 1972 should have given some indication of the extent of overcrowding, if any, at the school. If the enrollment/capacity ratio for a school plant exceeded 1, that plant was too small for the number of students being served. According to this criterion approximately 26.8 percent of all Tennessee schools were overcrowded (see Figure 2.1) in September 1972.

SIZE OF SITE

The school site should promote health, safety, and learning. It should be large enough to provide ample room for the school building plus space for outdoor play and play equipment, physical education activities and athletics, outdoor study of the environment, meeting places for students, and parking spaces for school personnel and visitors. The site should permit the kind of landscaping that will enhance the beauty of the school (8, p. 53).

FIGURE 2.1 NUMBER AND PERCENTAGE OF ALL TENNESSEE SCHOOLS USING SPECIFIED PROPORTIONS OF SCHOOL PLANT CAPACITY

ENROLLMENT/CAPACITY		NUMBER	PERCENTAGE	
	RATIO			
ABOVE	0.0- 0.5	61	4.3	**
ABOVE	0.5- 0.8	344	24.2	*****
ABOVE	0.8- 1.0	633	44.6	*****
ABOVE	1.0- 1.5	356	25.1	*****
ABOVE	1.5- 2.0	22	1.6	*
ABOVE	2.0-13.0	3	0.2	
TOTAL		1419*	100.0	-----
10% 20% 30% 40% 50% 60% 70% 80% 90% 100%				

SCHOOLS THAT EXCEED CAPACITY: 381 26.8%

*1419 of 1451 respondents provided data on enrollment and capacity

As a minimum amount of space for accommodating these needs at various organizational levels the Council of Educational Facility Planners (8, p. 60) has recommended these site sizes:

- 1) Elementary - 10 acres plus 1 acre for each 100 pupils*
- 2) Junior high (or middle) - 20 acres plus 1 acre for each 100 pupils*
- 3) Senior high - 30 acres plus 1 acre for each 100 pupils*

*For each 100 pupils of projected ultimate maximum enrollment.

The Council did not consider requirements for combined schools, but since combined schools include the senior high grades it seemed appropriate to use the senior high standard:

- 4) Combined - 30 acres plus 1 acre for each 100 pupils of projected ultimate maximum enrollment

Figure 2.2 provides a picture of school site size at all Tennessee schools: 82.1 percent of the schools were located on sites of less than 20 acres in 1973; 10.3 percent had sites of 20-30 acres; 7.6 percent had sites of 30 acres or more.

The median school site size for all Tennessee schools was 9 acres, i.e., half the schools had sites smaller than 9 acres and half had sites larger than 9 acres.

These statistics make it clear that according to national standards most school sites in Tennessee were much too small at the time these data were supplied. In calculating the exact number of inadequate sites the Council's specifications were altered slightly for the purposes of this study. Since many of Tennessee's schools were attempting in 1972-73 to serve a number of students that exceeded their 'projected ultimate

FIGURE 2.2 NUMBER AND PERCENTAGE OF ALL TENNESSEE SCHOOLS HAVING SITES OF SPECIFIED SIZES (IN ACRES)

ACRES	NUMBER	PERCENTAGE	
0- LESS THAN 1	0	0.0	
1- LESS THAN 5	295	21.0	*****
5- LESS THAN 10	429	30.6	*****
10- LESS THAN 20	428	30.5	*****
20- LESS THAN 30	144	10.3	****
30- LESS THAN 50	77	5.5	**
50- LESS THAN 100	30	2.1	*
TOTAL	1403*	100.0	-----

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

MEDIAN SCHOOL SITE SIZE IS 9 ACRES

*1403 of 1451 respondents provided data on school site size

maximum enrollment,' the decision was made to use present enrollment to calculate the number of additional acres beyond the base acreage figure which would be needed to provide adequate space for any given school at each organizational level. For example, an elementary school with a current enrollment of 300 needed a school site of 10 acres plus $300/100$, or 13 acres, to be declared 'adequate' with regard to the site size criterion. A school with students enrolled in grades 1-12 (a 'combined' school) and current enrollment of 500 needed 30 acres plus $500/100$, or 35 acres.

Using the Council's basic figures and present enrollment to calculate additional acreage needed, it was found that only 16.3 percent of all Tennessee schools met the national school site size requirements (see Table 2.7). To be more specific:

- 1) 12.3 percent of Tennessee's elementary schools had a site as large as 10 acres plus 1 acre for each 100 students enrolled on September 30, 1972.
- 2) 1.6 percent of Tennessee's middle schools had a site as large as 20 acres plus 1 acre for each 100 students enrolled on September 30, 1972.
- 3) 2.3 percent of Tennessee's secondary schools had a site meeting the requirement of 30 acres plus 1 acre for each 100 students enrolled on September 30, 1972.
- 4) .1 percent of Tennessee's combined schools had a site meeting the requirement of 30 acres plus 1 acre for each 100 students enrolled on September 30, 1972.

Table 2.7 Number and Percentage of All Tennessee Schools Meeting Site Size Requirements at Each of Four Organizational Levels

Organizational Level	Number	Percentage
Elementary	172	12.3
Middle	22	1.6
Secondary	32	2.3
Combined	<u>2</u>	<u>.1</u>
TOTAL	228	16.3

AGE OF ORIGINAL, ADDITIONAL, AND TEMPORARY STRUCTURES

The age of a school building can be an important factor in assessing its adequacy. The process of projecting costs for maintenance and modernization of a school must utilize the age of existing facilities because the life cycle of a school is characterized by different requirements at various stages.

Basil Castaldi has summarized a section of the life cycle of a school which was taken from Benjamin Handler's Economic Planning for Better Schools (University of Michigan, 1960):

Phase I, the First 20 Years - Expenditures are made primarily for small improvements in heating, lighting, and plumbing and for changes necessitated by educational innovations such as team teaching, language labs, and the open space classroom concept.

Phase II, the Period of Mechanical Replacement; Occurs Between Ages

20-30 - Required annual maintenance becomes more extensive and expensive, and the need for replacing worn-out mechanical equipment becomes more frequent.

Phase III, the Period of Rapid Growth in General Maintenance; Lies

Between Ages 30 and 40 - A wide range of physical problems begins to demand attention. Most of the original mechanical equipment has been replaced or needs overhauling. The roof and service systems may require repair or replacement. The brickwork should be re-pointed, and lighting fixtures may need to be improved.

Phase IV, the Climax; Occurs Between the Ages of 40 and 50 - This

is the crucial period in the life of a school building. The process of deterioration accelerates and its effect is becoming increasingly noticeable. The character of the neighborhood may have changed from residential to industrial or commercial so that the school is no longer needed where it is located. Also, its educational inadequacies may have become so serious that it is no longer suited for a modern educational program. The choice must be made between abandoning the building and making it more functional via costly remodeling.

Phase V, the Period Beyond 50 Years of Age - Although schools now are being built to last longer, the majority of school buildings are retired from service between 60 and 80 years of age (5, pp. 314-316).

This information on the life cycle of a school prompted the writer to calculate the number of Tennessee public schools occurring in various

phases. Of the 1413 schools providing information on the year of construction of the oldest structure in use, 573 or 40.6 percent of the 'original' structures were under 20 years of age; 503 or 35.6 percent were between 20 and 40 years of age; and 337 or 23.8 percent were 40 years of age or older.

The oldest school represented in the survey was built in 1848. This structure and 64 other original buildings plus 7 additions, which were reported to be 60 years of age and older, probably should be retired from service. See Table 2.8 for a more complete picture of the stages in the school life cycle which had been attained by Tennessee's school buildings at the time this survey was conducted.

A more detailed summary of the questionnaire responses pertaining to school age appears in Table 2.9.

Additions

The ability to remodel or add to an existing structure is a mixed blessing. The public more readily accepts renovation or expansion of existing schools than rebuilding. But additions may be hard to justify in terms of economy, pupil convenience, and need for additional capacity in the present school location. An addition that makes good sense in the short-range view may prove to be a serious mistake in a long-range building program. Thus careful study is essential when expansion of existing facilities is being considered.

Castaldi has offered the following guidelines for making decisions regarding school additions. Adding to an existing school is financially

TABLE 2.8 NUMBER AND PERCENTAGE OF ALL TENNESSEE SCHOOL BUILDINGS OCCURRING AT SPECIFIED STAGES OF THE SCHOOL LIFE CYCLE

AGE (IN YEARS)	ORIGINAL **		ADD1**		ADD2**		ADD3**		TEMP1**		TEMP2**		TEMP3**	
60 OR OVER	65	4.6	5	0.6	1	0.2	1	0.4	0	0.0	0	0.0	0	0.0
40- LESS THAN 60	272	19.2	41	5.2	13	2.4	0	0.0	1	0.4	0	0.0	0	0.0
20- LESS THAN 40	503	35.6	272	34.3	108	19.7	33	14.1	7	2.8	4	3.4	1	1.3
LESS THAN 20	573	40.6	476	59.9	426	77.7	200	85.5	242	96.8	114	96.6	75	98.7
TOTAL	1413*	100.0	794	100.0	548	100.0	234	100.0	250	100.0	118	100.0	76	100.0

TABLE 2.9 NUMBER AND PERCENTAGE OF PUBLIC SCHOOL BUILDINGS IN TENNESSEE CONSTRUCTED OR ADDED IN SPECIFIED DECADES, 1840-1973

	ORIGINAL **		ADD1**		ADD2**		ADD3**		TEMP1**		TEMP2**		TEMP3**	
AFTER 1840 - 1870	4	0.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1870 - 1880	4	0.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1880 - 1890	5	0.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1890 - 1900	10	0.7	3	0.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1900 - 1910	31	2.2	1	0.1	1	0.2	1	0.4	0	0.0	0	0.0	0	0.0
AFTER 1910 - 1920	70	5.0	9	1.1	2	0.4	0	0.0	1	0.4	0	0.0	0	0.0
AFTER 1920 - 1930	173	12.2	29	3.7	8	1.5	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1930 - 1940	193	13.7	53	6.7	21	3.8	4	1.7	2	0.8	0	0.0	0	0.0
AFTER 1940 - 1950	229	16.2	130	16.4	52	9.5	12	5.1	1	0.4	2	1.7	1	1.3
AFTER 1950 - 1960	381	27.0	316	39.8	202	36.9	57	24.4	20	8.0	6	5.1	2	2.6
AFTER 1960 - 1970	255	18.0	227	28.6	225	41.1	136	58.1	145	58.0	64	54.2	34	44.7
AFTER 1970 - 1973	58	4.1	26	3.3	37	6.8	24	10.3	81	32.4	46	39.0	39	51.3
TOTAL	1413*	100.0	794	100.0	548	100.0	234	100.0	250	100.0	118	100.0	76	100.0

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
OLDEST STRUCTURE	1848	1898	1910	1909	1917	1945	1949
MEAN YEAR OF CONSTRUCTION	1946	1954	1958	1962	1967	1968	1969
MOCAL YEAR OF CONSTRUCTION	1950	1954	1965	1964	1971	1971	1972

*1413 of 1451 respondents provided data on age of 'original' building

**Since the majority of schools in Tennessee had additions and many had temporary structures, the questionnaire "Description of School Plant Facilities in Tennessee" provided space for respondents to answer all items pertaining to 'buildings' in one or more of the seven starred categories above.

or educationally questionable if:

1. The school under consideration is no longer needed in its present location.
2. The building has structural defects that cannot be corrected at a reasonable cost.
3. The school is educationally obsolete and cannot be modernized at a reasonable cost.
4. The building is unsafe or unhealthful and cannot be made safe and sound at a reasonable cost.
5. The site is inadequate and cannot be expanded or improved at a reasonable cost.
6. The addition would not be part of both a short- and long-range building program.
7. The cost of adding to the school is unreasonable in relation to the probable useful life of the existing building (5, p. 62).

With such stringent requirements for justifying additions to existing schools, it is, perhaps, remarkable that so many of the public schools in Tennessee have utilized additions. A total of 913 schools, or 62.9 percent of the schools represented in this survey, had at least one addition: 30.3 percent had one addition; 19.5 percent had two additions; and 13.1 percent had at least three additions.

Space was not provided on the questionnaire for information on more than three additions. A number of principals, however, indicated that they had more than three. The number of schools reported as having four

or more additions was 172. This must be considered a minimum figure, however, since it represents information volunteered rather than requested in the questionnaire. Of this number

120 schools had four additions.

29 schools had five additions.

17 schools had six additions.

5 schools had seven additions.

1 school had nine additions.

Temporary Structures

Most educational facility planners do not even discuss temporary structures. In a school plant survey conducted in Monroe County, Florida (9) the investigators characterized portable temporary units as facilities providing "valuable flexibility in growing counties." But, as with any temporary addition, portable units are not to be considered as an integral part of the school plant where they may be located at any given time, and they are not assigned any desirable pupil capacity. The inference to be drawn is that temporary structures should be replaced by permanent ones as soon as possible.

Of the schools represented in this survey 21.2 percent had at least one temporary structure: 14 percent had one temporary structure, 4.9 percent had two, and 2.3 percent had at least three temporary structures.

Again some principals wrote in the number of temporary structures, if more than three, even though this information was not requested. Seven schools were reported to have more than three temporary structures.

Of this number

- 1 school had four temporary structures.
- 3 schools had five temporary structures.
- 1 school had ten temporary structures.
- 1 school had twelve temporary structures.
- 1 school had thirteen temporary structures.

BASEMENTS USED FOR INSTRUCTION OR OTHER PROGRAMS INVOLVING STUDENTS

When needed instructional areas are not present in a school plant, substandard spaces in basements, attics, or storerooms may be pressed into service. Although there are some notable exceptions, basements generally do not provide a suitable instructional environment (8, p. 31).

Table 2.10 summarizes the situation with regard to use of basements in Tennessee's public schools.

Table 2.10 Number and Percentage of Public School Buildings in Tennessee Utilizing Basements for Instruction or Other Programs Involving Students

	Original	Add1	Add2	Add3	Temp1	Temp2	Temp3
Number	271	73	53	23	5	2	2
Percentage	18.7	9.2	9.7	9.8	2.0	1.7	2.6

At the time of this survey the basement of some part of the school plant was being used for instruction or other programs involving students by 338 or 23.3 percent of all the schools in Tennessee. Roughly 20 percent

of all 'original' buildings had a basement in which student programs were carried out. Just under 10 percent of all additions, and approximately 2 percent of all temporary structures had a basement so utilized.

HEIGHT OF BUILDING

The height of a school building, i.e., how many stories it contains, has important implications for the safety rating of a school plant. Resistance to fire must be a key concern in deciding how many stories a school building should contain. In its 1958 Guide the National Council on Schoolhouse Construction published a set of general specifications for the construction of adequately fire-resistive structures of various heights.

One-story buildings are relatively safe, and may be constructed of any type of suitable materials as long as adequate exit facilities are made available, and "hot spots" like furnace rooms are sufficiently isolated. Two-story buildings may not be considered safe from fire unless the builder uses fire-resistive materials for exterior walls, corridors and stairs. Adequate exit facilities must also be provided. Buildings of three or more stories should be fire-resistive throughout except that wood may be used for floor coverings and trim (14, p. 155).

One of Tennessee's minimum standards for the construction of school buildings has been stated,

All buildings of frame construction shall be only one story high. All two-story buildings shall have at least fire-resistant corridors and fire-resistant stairways with non-skid treads, and all buildings of three or more stories shall be of fire-resistant materials except doors, windows, floor covering, and roofing (19, p. 59).

When the size of the site for a school does not prohibit construction of a one-story structure of sufficient size, most facility planners recommend the one-story plan. Multi-story buildings seldom save a school system money because (1) so much extra space is needed for stairways and (2) the more rigidly fireproof construction demanded by most building codes is more costly than construction materials for a one-story building (13, p. 130).

The decided preference for one-story public school buildings in Tennessee can be seen in Table 2.11.

Tennessee has required that no building of frame construction shall exceed a height of one story. Principals providing information on 'number of stories' and 'exterior construction of building' in the questionnaire "Description of School Plant Facilities in Tennessee" indicated that there were ten structures of more than one story built exclusively of wood: four 'original' buildings, five additions, and one temporary structure.

In characterizing the ability of buildings constructed prior to 1920 to resist fire, the Council of Educational Facility Planners has stated "Fire-resistive ratings may be questionable and far below today's standards" (8, p. 153). This same group has pointed out that multi-story buildings must be constructed primarily of fire-resistive materials in order to provide acceptable pupil protection against fire hazards. Thus the fire resistance of buildings of more than one story constructed prior to 1920 is clearly open to serious question. In 1973 at least 115 of Tennessee's public school buildings were in this category: 104 original buildings and 11 additions.

TABLE 2.11 NUMBER AND PERCENTAGE OF PUBLIC SCHOOL BUILDINGS IN TENNESSEE HAVING SPECIFIED NUMBERS OF STORIES (EXCLUDING BASEMENT)

NUMBER OF STORIES	ORIGINAL		ADD1		ADD2		ADD3		TEMP1		TEMP2		TEMP3	
1 STORY	934	64.4	550	69.3	400	73.0	179	76.5	239	95.6	111	94.1	74	97.4
2 STORIES	399	27.5	214	27.0	119	21.7	48	20.5	10	4.0	7	5.9	1	1.3
3 STORIES	116	8.0	30	3.8	29	5.3	7	3.0	1	0.4	0	0.0	1	1.3
4 STORIES	2	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
TOTAL	1451	100.0	794	100.0	548	100.0	234	100.0	250	100.0	118	100.0	76	100.0

EXTERIOR CONSTRUCTION MATERIALS

The choice of building materials for the exterior of a school is influenced by many factors, including the climate of the area in which the school is to be located, availability of various building materials in the area, aesthetics, and costs. Fire resistance is a primary consideration. The most fire resistive building materials are reinforced concrete, concrete block, brick and stone (2, p. 18). Wood frame, of course, is the most combustible building material.

A publication of the American Institute of Architects (15) contained the following statement on building materials:

In any structural system, basic materials used are concrete, steel, and wood. Concrete has the advantage of being, in itself, fire resistant and, because it is a plastic material, it is easily adapted to unusual shapes. Its disadvantage is characteristic heavy weight. Consideration should be given to this material both as cast-in-place and as precast units. Steel is readily fabricated from structural shapes, lightweight bars and sheets into structural members that will meet almost any condition. In itself, it is not a fire-resisting material. It does produce construction that is light in appearance. Wood is the simplest material to handle in a great many respects and is perhaps the easiest to fabricate. Use of high-grade, waterproof glues with laminated construction and use of modern metal connectors to increase strength of joints has given wood construction new possibilities. Of course, it has the disadvantage of being a combustible material (p. 51).

The publication Schoolhouse presented a chart on exterior wall construction (13, pp. 182-184). A brief description and illustration of each type of wall construction was given, along with information on its fire-rating, insulating quality, maintenance characteristics, load bearing properties, and installation and maintenance costs.

The item on 'exterior construction of building' in the questionnaire "Description of School Plant Facilities in Tennessee" presented the following

list of building materials:

brick	metal	concrete
wood	stone	other

Respondents were asked to 'check all that apply' for each 'original' building, addition, and temporary structure. The responses obtained produced a large number of combinations of building materials. By far the most popular building material for schools in Tennessee, however, was brick. Thus the only combinations of materials that contained enough entries to warrant individual mention were those that included brick.

Table 2.12 presents information on the types of building materials used for public school exteriors in Tennessee.

HEATING, COOLING, AND LIGHTING SYSTEMS

The element of comfort must be considered when planning educational facilities because psychologists and educators agree that human comfort is conducive to efficient learning (5, p. 207). Temperature and humidity control and appropriate lighting are important ingredients in a comfortable school environment.

Heating Equipment

As a minimum standard for its school buildings the State of Tennessee has required that

Open flame space heaters shall not be used in classrooms. When gas heaters are used in classrooms, such heaters shall be provided with air for combustion taken from the outside of the classroom. Gas heaters shall be of a vented type connected to an effective chimney or gas vent which shall extend above the eaves or parapet wall at least 18 inches (19, p. 68).

TABLE 2.12 NUMBER AND PERCENTAGE OF PUBLIC SCHOOL BUILDINGS IN TENNESSEE USING SELECTED EXTERIOR CONSTRUCTION MATERIALS

	ORIGINAL		ADD1		ADD2		ADD3		TEMP1		TEMP2		TEMP3	
BRICK	1080	74.4	623	78.5	437	79.7	180	76.9	23	9.2	9	7.6	4	5.3
WOOD	32	2.2	9	1.1	7	1.3	2	0.9	58	23.2	27	22.9	16	21.1
METAL	3	0.2	5	0.6	9	1.6	5	2.1	122	48.8	62	52.5	38	50.0
STONE	16	1.1	3	0.4	2	0.4	0	0.0	0	0.0	0	0.0	0	0.0
CONCRETE	32	2.2	25	3.1	11	2.0	10	4.3	2	0.8	0	0.0	0	0.0
OTHER	6	0.4	8	1.0	6	1.1	4	1.7	8	3.2	3	2.5	4	5.3
BRICK, WOOD	25	1.7	9	1.1	1	0.2	0	0.0	1	0.4	0	0.0	0	0.0
BRICK, METAL	28	1.9	10	1.3	5	0.9	3	1.3	1	0.4	0	0.0	0	0.0
BRICK, STONE	12	0.8	5	0.6	4	0.7	0	0.0	0	0.0	0	0.0	0	0.0
BRICK, CONCRETE	83	5.7	35	4.4	20	3.6	10	4.3	3	1.2	1	0.8	1	1.3
BRICK, OTHER	8	0.6	3	0.4	1	0.2	1	0.4	0	0.0	0	0.0	0	0.0
BRICK, WOOD, METAL	5	0.3	5	0.6	1	0.2	1	0.4	0	0.0	0	0.0	0	0.0
BRICK, WOOD, CONCRETE	12	0.8	6	0.8	5	0.9	1	0.4	0	0.0	0	0.0	0	0.0
BRICK, METAL, CONCRETE	43	3.3	16	2.0	7	1.3	1	0.4	1	0.4	1	0.8	0	0.0
BRICK, STONE, CONCRETE	6	0.4	2	0.3	1	0.2	1	0.4	0	0.0	0	0.0	0	0.0
BRICK, WOOD, METAL, CONCRETE	11	0.8	5	0.6	3	0.5	2	0.9	0	0.0	0	0.0	0	0.0
ALL OTHER COMBINATIONS	37	2.5	9	1.1	5	0.9	2	0.9	17	6.8	6	5.1	4	5.3
NO RESPONSE	7	0.5	16	2.0	23	4.2	11	4.7	14	5.6	9	7.6	9	11.8
TOTAL	1451	100.0	794	100.0	548	100.0	234	100.0	250	100.0	118	100.0	76	100.0

A strong argument in favor of a central heating system as opposed to individual space units has been presented by the Council of Educational Facility Planners:

Sudden fluctuations of heating or cooling in room air temperature. . . should not be more than $\pm 1^{\circ}\text{F.}$, and preferably less. This requirement is highly important since it is physiologically distracting and uncomfortable to require the temperature regulation system of the body to constantly adjust back and forth through sudden temperature changes. . .

Further temperature impingements can occur if there are cold or hot areas in the room. These areas will affect students as they change task locations. Room air temperatures should not vary more than $\pm 1^{\circ}\text{F.}$ vertically or horizontally up to the five foot level and to within one foot of exterior walls (8, p. 118).

Space heaters for individual rooms simply could not meet such specifications for an optimal thermal environment.

The questionnaire "Description of School Plant Facilities in Tennessee" contained an item dealing with heating equipment which provided the following alternatives: central (system for entire building)
space (individual room units).

Respondents were asked to check the type of system found in the 'original' building, all additions, and all temporary structures. Some principals checked both 'central' and 'space'. This could have meant that some space heaters were being used to supplement a central system. Unfortunately, it also could have meant that the principals misunderstood the intended distinction between the two types of systems.

Table 2.13 summarizes responses of the principals to the item concerning type of heating equipment.

Space heaters were being used as the sole source of heat in 9 percent of the State's 'original' buildings. But as structures were added to Tennessee's school plants, the use of space heaters evidently

TABLE 2.13 NUMBER AND PERCENTAGE OF PUBLIC SCHOOL BUILDINGS IN TENNESSEE USING CENTRAL AND/OR SPACE HEATING EQUIPMENT

	ORIGINAL		ADD1		ADD2		ADD3		TEMP1		TEMP2		TEMP3	
JUST CENTRAL	1229	84.7	634	79.8	429	78.3	171	73.1	81	32.4	37	31.4	20	26.3
JUST SPACE	131	9.0	84	10.6	64	11.7	36	15.4	137	54.8	65	55.1	42	55.3
CENTRAL & SPACE	69	4.8	32	4.0	17	3.1	6	2.6	8	3.2	4	3.4	2	2.6
NO RESPONSE	22	1.5	44	5.5	38	6.9	21	9.0	24	9.6	12	10.2	12	15.8
TOTAL	1451	100.0	794	100.0	548	100.0	234	100.0	250	100.0	118	100.0	76	100.0

TABLE 2.14 NUMBER AND PERCENTAGE OF PUBLIC SCHOOL BUILDINGS IN TENNESSEE HAVING SPECIFIED TYPES OF COOLING EQUIPMENT

	ORIGINAL		ADD1		ADD2		ADD3		TEMP1		TEMP2		TEMP3	
JUST CENTRAL	215	14.8	83	10.5	63	11.5	36	15.4	96	38.4	44	37.3	30	39.5
JUST WINDOW UNIT	313	21.6	136	17.1	81	14.8	32	13.7	55	22.0	26	22.0	20	26.3
CENTRAL & WINDOW	10	0.7	6	0.8	0	0.0	1	0.4	1	0.4	1	0.8	0	0.0
NO MECHANICAL	913	62.9	569	71.7	404	73.7	165	70.5	98	39.2	47	39.8	26	34.2
TOTAL	1451	100.0	794	100.0	548	100.0	234	100.0	250	100.0	118	100.0	76	100.0

WINDOW UNIT COOLING

	ORIGINAL		ADD1		ADD2		ADD3		TEMP1		TEMP2		TEMP3	
ALL ROOMS	138	42.7	73	51.4	35	43.2	16	48.5	33	58.9	20	74.1	12	60.0
SELECTED ROOMS	148	45.8	48	33.8	30	37.0	11	33.3	7	12.5	3	11.1	4	20.0
NO RESPONSE	37	11.5	21	14.8	16	19.8	6	18.2	16	28.6	4	14.8	4	20.0
TOTAL	323	100.0	142	100.0	81	100.0	33	100.0	56	100.0	27	100.0	20	100.0

TABLE 2.15 NUMBER AND PERCENTAGE OF PUBLIC SCHOOL BUILDINGS IN TENNESSEE USING SPECIFIED TYPES OF LIGHTING IN INSTRUCTIONAL AREAS

	ORIGINAL		ADD1		ADD2		ADD3		TEMP1		TEMP2		TEMP3	
INCANDESCENT	476	32.8	247	31.1	133	24.3	56	23.9	20	8.0	7	5.9	3	3.9
FLUORESCENT	882	60.8	495	62.3	374	68.2	160	68.4	216	86.4	99	83.9	62	81.6
BOTH	37	2.5	17	2.1	10	1.8	2	0.9	1	0.4	0	0.0	0	0.0
OTHER	60	4.1	15	1.9	13	2.4	1	0.4	1	0.4	0	0.0	1	1.3
NO RESPONSE	7	0.5	21	2.6	20	3.6	15	6.4	12	4.8	12	10.2	10	13.2
TOTAL	1451	100.0	794	100.0	548	100.0	234	100.0	250	100.0	118	100.0	76	100.0

increased. Roughly 12 percent of the additions and 55 percent of the temporary structures were using space heaters alone.

Cooling Systems

Children become restless in a classroom that is too cold because they feel the need to move around in order to generate body heat. In a room that is too hot, children tend to daydream and become drowsy.

According to the Council of Educational Facility Planners,

. . .for an optimum environment with maximum learning efficiency in an occupied classroom it is recommended that an air temperature of 72°F. be maintained. . .

The upper limit of air temperature is 79°F. which is the temperature beyond which sweat gland activity increases abnormally. Excessive perspiring is a great cause of student discomfort.

The relative humidity of a schoolroom should not be permitted to go below 25 percent nor above 60 percent. Air saturated with moisture (100 percent humidity) interferes with body temperature regulation. (Perspiration cannot evaporate and produce a cooling effect unless the air can absorb the moisture) (8, p. 118).

Optimum temperature and humidity control can be provided only by some type of mechanical cooling system.

To strengthen the case for air conditioning the following argument was presented in Schoolhouse:

Many business firms actually figure they save money by investing in air conditioning equipment--their employees do better work if they are comfortable. In the same way, efficiency in learning may be the pay-off for cooling schools. Advocates also insist that air conditioned schools will make the twelve-month school feasible, and point out that the twelve-month session could yield the equivalent of a 25 per cent increase in classroom space. . . Further, since an adequate school ventilation system is usually required by codes anyway, and a system of ducts adequate for forced warm air needs very little enlargement to become adequate for complete air conditioning, air conditioning may actually cost less in school buildings than in many other building types (13, p. 186).

Window air conditioning units of sufficient capacity for the areas in which they are used can provide an acceptable degree of temperature and humidity control. But for efficiency and economy, central air conditioning is preferable. Castaldi has pointed out

As a rule, heating, cooling, and ventilating are conceived as a single system rather than three isolated and independent systems. Each of these three types of mechanical equipment could operate quite satisfactorily as an independent unit from the standpoint of engineering design, but it would not be economical for it to do so, since many parts of an integrated system can be designed for dual or triple use (5, p. 215)

The questionnaire designed for the present study included an item on 'type of cooling equipment' primarily for the purpose of ascertaining how many Tennessee schools were equipped to provide a comfortable environment for students on a twelve-month basis. The alternatives presented with this item included:

- Central air conditioning system
- Window units for individual rooms
- No mechanical cooling system.

Responses were included for 'original' buildings, all additions, and all temporary structures.

Since many schools equip only administrative offices with window air conditioners when these are purchased, space was provided in the questionnaire for principals checking 'window units' to indicate whether such units were used to cool 'all rooms' or 'only selected rooms'.

Table 2.14 presents a summary of the situation in Tennessee schools with regard to types of cooling systems.

At the time this study was conducted less than 40 percent of the State's 'original' buildings and less than 30 percent of all additions

were equipped with some type of mechanical cooling system. Less than 15 percent of these permanent structures had central air conditioning systems, and 41 percent of structures with window cooling units had these units only in selected rooms (usually administrative offices rather than classrooms).

Temporary structures were more likely to be air conditioned than were original buildings or additions: approximately 62 percent had mechanical cooling systems of some type. This state of affairs was probably due to the State requirement that in all 'portable or relocatable buildings', 'Mechanical ventilation shall be provided. (Buildings shall be heated and cooled.)' (19, p. 69). Of course many of the 'temporary' structures in the State were 'portable or relocatable'.

Lighting

Creating an appropriate visual environment in a school involves much more than just selecting lamps for lighting units. But since the amount of light produced per kilowatt of power is almost 50 percent greater for fluorescent lamps than for incandescent (5, p. 199), the long-range economy of fluorescents has led facility planners to recommend them for modern school plants. The initial cost of fluorescent fixtures is higher than that for incandescent lighting, but according to Castaldi, a study conducted by a school district near Boston revealed that within seven years the savings in the cost of power compensated for the initial cost and maintenance of fluorescent fixtures.

A publication of Educational Facilities Laboratories contained the statements,

Though incandescent bulbs cast a friendlier light, the schools have opted for the fluorescents because they are more efficient and contribute less unwanted heat gain (16, p. 97).

A mix of fluorescents and incandescents makes for pleasant tone (p. 96).

And finally,

. . .the newer fluorescent tubes have a more desirable warm spectrum range. Thus, the schools now can have fluorescents that combine warm effect and efficiency (p. 97).

An item on 'principal type of lighting in instructional areas' was included in the questionnaire employed in this study. In order to determine the number of schools using the more efficient, more economical fluorescent lamps, the alternatives for this item included

incandescent	fluorescent	other.
--------------	-------------	--------

Once again the item was to be answered not only for the 'original' building but also for all additions and temporary structures.

Table 2.15 displays the response data obtained for the item on lighting in instructional areas.

In 1973 approximately two-thirds of all 'original' public school buildings and additions in Tennessee were equipped with fluorescent lamps as the principal source of lighting for instructional areas. A larger percentage, 85 percent, of the temporary structures in the State utilized fluorescent lighting. This probably was due to the fact that

many of the temporary structures were 'portable or relocatable' buildings, and the State has required that all such structures have fluorescent lighting (19, p. 69).

SOURCES OF WATER SUPPLY

Complete, adequate, well-arranged, and properly maintained sanitary facilities are essential for the health, comfort, and convenience of school occupants. Since the formation of good health habits may be considered a desirable objective of education, schools should provide the appropriate physical facilities that put theory to practice (14, p. 182).

A school plant must have access to an adequate source of water that is both safe and palatable. Where wells are used a minimum supply of 25 gallons of water per day is required to meet the normal needs of each student (5, p. 212). In addition there should be adequate facilities for storing sufficient quantities of water for other needs such as fire fighting and use in laboratories or home economics programs.

A school's drinking water supply must be free from harmful bacteria and nitrogenous or undesirable mineral content as determined by state or local health authorities.

Certainly water supplied from a well could meet all the standards mentioned above. But water supplied by a municipal system, or 'water utility' (the term used in the present study), would generally be considered more dependable, both in terms of quantity and of quality.

An interest in ascertaining the sources of water supply for Tennessee schools led to the addition of a questionnaire item stated, "How does the

school obtain its water?" Alternative responses included

water utility

pump located on school property

other.

The summary of responses to this item which appears in Figure 2.3 indicates that while most Tennessee schools obtained water from a water utility, more than 13 percent still used a more primitive source in 1973.

PRINCIPALS' PERCEPTIONS OF NEEDS

In order to give principals an opportunity to express their own perceptions of the status of their school plant facilities, an item was included in the questionnaire which asked,

In order to carry out an adequate instructional program for your students, what do you see as the most crucial area of need for your school?

- OR
1. Maintenance and repair of present facilities
 2. Construction of new facilities.

Figure 2.4 provides a summary of the responses to this item.

More than half the principals (52.7 percent) considered maintenance the most crucial need; 36.9 percent favored new construction. Approximately 8 percent of the principals were satisfied with their school plant (indicating no needs at present); but 2.3 percent stated that both maintenance and construction were needed.

The back of the last page of the questionnaire was suggested as the space for adding comments on maintenance and construction needs. Approximately one-third of the principals took time to provide some

FIGURE 2.3 NUMBER AND PERCENTAGE OF ALL TENNESSEE SCHOOLS USING SPECIFIED SOURCES OF WATER SUPPLY

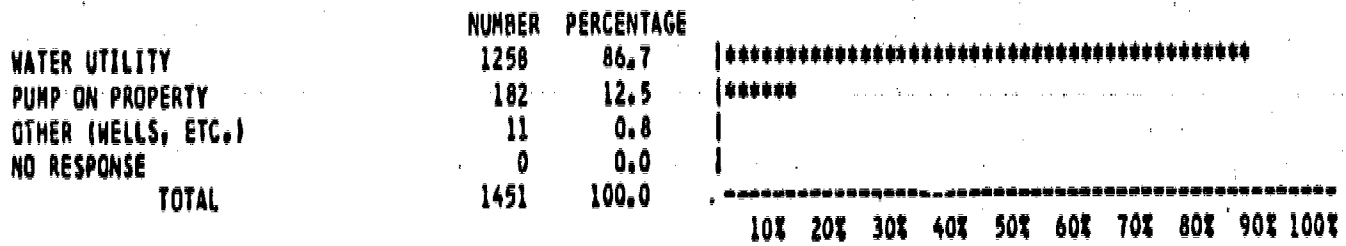


FIGURE 2.4 NUMBER AND PERCENTAGE OF TENNESSEE PUBLIC SCHOOL PRINCIPALS EXPRESSING SPECIFIED FACILITY NEEDS

	NUMBER	PERCENTAGE	
MAINTENANCE	764	52.7	*****
CONSTRUCTION	535	36.9	*****
BOTH	34	2.3	*
NEITHER (INCLUDING NO RESPONSE)	118	8.1	****
TOTAL	1451	100.0	-----

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

personal observations. The discussion below gives some indication of the needs expressed by those principals.

Maintenance Needs

Principals expressed a number of needs in connection with maintenance, repair, and remodeling of present facilities. These needs are summarized below, listed in order of importance as indicated by frequency of response.

- 1) More funds for custodial assistance
 - a) More custodians needed to keep existing facilities clean and in good repair
 - b) Present custodians must be better trained and better paid so they will continue to work at a school
- 2) Air conditioning system
- 3) Updated heating system (installation of central heating system suggested)
- 4) Exterior painting
- 5) Improved lighting
- 6) Roof repair
- 7) Removal of walls to create more open spaces within present building
- 8) Repair of windows
- 9) New plumbing, and expansion and renovation of restroom facilities
- 10) Improved wiring system
- 11) Remodeling to improve allocation of space in present facilities and provide room for (in order of importance as indicated by frequency of response)

- | | |
|--|---|
| a) larger library | g) areas for specialists to work
(speech therapists, psychologists,
nurses, etc.) |
| b) larger cafeteria | |
| c) storage space for teachers | h) Title I and ESEA programs |
| d) classrooms for art, music,
and other special courses | i) teacher conference rooms |
| e) kindergarten | j) office space |
| f) instructional media center | k) improved space for middle school |
- 12) Improved flooring (carpeting, tile suggested to cover old wood floors)
- 13) Paving of outdoor play and parking areas
- 14) New sewage treatment facilities

The following items were mentioned more than once, but could not be ranked in order of importance:

Repair of doors

Addition of acoustical tile in various areas

Improvement of school grounds

With regard to school plant maintenance, in 1973 Tennessee law required that

All schools shall have an adequate building maintenance program including attention to the maintenance of floors, painted walls, chalkboards, glass, panic hardware, heating system, lighting system, plumbing system and other integral parts of the school plant (19, p. 54).

The large number of detailed criticisms of school plant maintenance received from principals indicated that at some 100 schools throughout the State an 'adequate building maintenance program' was not in effect at the time of the study.

Construction Needs

Principals expressing the need for construction of new facilities based their assessments on one or more of these factors (listed in order of importance as indicated by frequency of response):

- 1) Present facilities overcrowded (some schools using split sessions and/or multiple temporary units)
- 2) Enrollment in the areas served by the school expected to rise precipitously in the near future
- 3) Maintenance of the old facility too costly to continue
- 4) Old facilities clearly inadequate for carrying out current educational programs

Administrators of overcrowded schools characterized some of their hardships:

- 1) Using up to thirteen portable units to house classes
- 2) Operating split sessions
- 3) Classes being held on gymnasium stage and in other unsuitable locations
- 4) Busing several hundred students to a school several miles away due to insufficient space at their own school

Principals utilizing buildings 40 years of age and older described some of their problems:

- 1) Outdated heating system; poor ventilation, no mechanical cooling system
- 2) Multi-story buildings not meeting fire resistance standards
- 3) Outdated, inadequate wiring
- 4) Outdated, poorly designed rooms (size and arrangement inadequate for today's programs)
- 5) Hard-to-operate wooden windows.

A building of poor quality will be expensive to insure and to maintain, and the useful life of the building will be decreased. If it does not adequately accommodate the instructional program the cost of instruction will be increased, and the quality of the educational program will be diminished (15, p. 29).

Several principals indicated that even relatively new buildings had been constructed so poorly that the educational program was jeopardized by the continual need for major repairs.

Some principals specified the types of facilities they needed most if new construction were to take place. Listed in order of importance by frequency of response, these were:

- 1) Indoor play area or gymnasium
- 2) Library
- 3) Space for vocational courses
- 4) Cafeteria
- 5) Facilities for music and art classes
- 6) Kindergarten
- 7) Storage space
- 8) Larger school grounds
- 9) Facilities for handicapped students

The gymnasium and the library headed the list of most-needed facilities in the State. In 1973 Tennessee law required that

Every school shall be provided with an area for physical education consisting of a well drained, smooth, playground, and one of the following:

- a) A play room with a minimum of 35 square feet per pupil taking physical education during the peak load (1800 square feet minimum); or

- b) A gymnasium with a minimum floor space of 35 square feet per pupil taking physical education during the peak load (2400 square feet minimum); or
- c) A hard surface outside area with a minimum of 35 square feet per pupil taking physical education during the peak load (19, pp. 62-63).

And with regard to libraries,

In all schools embracing grades 1-8 or any combination of these grades having 15 teachers or more, a library shall be provided to seat the largest class, plus 15 pupils. This space shall be computed on the basis of 25 square feet per pupil. Additional space shall be provided for storage of magazines, audio-visual equipment and materials; and a workroom with running water, shelves, and cabinets. In all schools embracing any combination of grades 7-12, the library area(s) shall be provided large enough to house 15 per cent of the enrollment. This space shall be computed on the basis of at least 25 square feet per pupil to be accommodated. Additional space shall be provided for conference rooms; storage space for magazines, audio-visual materials and equipment; listening and viewing areas; and a workroom supplied with running water, shelves, and cabinets. Each of these rooms shall contain at least 120 square feet. The conference room and workroom shall be separated from the library with a vision strip to facilitate supervision (19, p. 62).

Several principals stated that their facilities could not measure up to these minimum standards.

Other Responses

Some schools in Tennessee had fewer than 300 students, several had fewer than 100. In 1973 there were still one-, two-, and three-teacher schools in the State. Some of the principals of these small schools expressed the hope that their schools might soon be consolidated with others so that broader educational opportunities could be made available for their students.

On the positive side, some principals reported that steps had been taken to alleviate some of the worst situations involving school plants. Several small schools reportedly were scheduled to be consolidated in the near future. Dozens of new buildings were to be completed in 1975 and 1976.

Plans were underway to subdivide a few of the schools that were attempting to serve students in grades 1-8 or 1-12 so that elementary, middle, and secondary grades each could be housed and administered independently.

Finally, scores of principals wrote that their facilities were satisfactory to excellent, and that their buildings were adequately maintained.

ABANDONED BUILDINGS

An interest in the number of abandoned buildings throughout the State led to the inclusion of the last questionnaire item:

If there is an abandoned building on your site, or if you are using a soon-to-be-abandoned building to house temporarily some of your instructional programs, please use the back of this sheet to note that fact.

Only eight principals reported the presence of such buildings on their school sites. Two principals described the abandoned buildings on their sites as 'agriculture buildings'. In two cases high school grades were separated from grades 1-8 and moved to new locations leaving, in one case, a single vacant building; and in the other instance, four abandoned structures. One school was renting a nearby abandoned store for band classes. Three other principals simply indicated the presence of an abandoned building on their sites.

PLANT PROFILES

In the interest of reducing the mass of data obtained in the questionnaire "Description of School Plant Facilities in Tennessee" to a more readily comprehensible form, two plant profiles--'adequate' and 'substandard'--were developed. These profiles were developed for all Tennessee schools, and for each of the thirty-six other categories that were used in this study (see Figure 1.1). They contained twelve criteria against which each school plant could be compared; the twelfth criterion provided a summary of the preceding eleven, i.e., seven of eleven of the preceding standards for an 'adequate' plant had to be met for the plant as a whole to be considered 'adequate'. A school plant was considered 'substandard' if it met seven of the eleven initial criteria for 'substandard' plants. Using the seven of eleven criterion for 'adequate' plants and for 'substandard' plants meant some of the 1451 school plants represented in the survey were not included in either category. This group may be considered to consist of schools ranging from relatively satisfactory to relatively unsatisfactory, but not clearly adequate or clearly substandard, according to the criteria established for this study.

'Adequate' Plants

A more detailed rationale for most of the criteria for the profile of the 'adequate school plant' has been given previously in Section 2. A listing of the twelve criteria appears below accompanied by a brief statement of rationale for each.

Criteria for an Adequate School Plant

Criterion	Rationale
1) Enrollment/capacity ratio is ≤ 1	The quality of the educational program is jeopardized when a school becomes overcrowded.
2) Meets national size standards for organizational level	Minimum and maximum school enrollment figures at each organizational level have been established. Schools with enrollments in the specified ranges provide maximum educational opportunities and operate most efficiently and economically.
3) Meets national site size standards	National standards for site size at each organizational level have been established. These minimum standards must be met or exceeded for adequacy in this category.
4) Original building 30 years of age or less	Past the age of 30 a wide range of physical problems begins to beset a school plant, and the adequacy of the original design for conduct of current educational programs may be called into question.
5) No temporary structures	Temporary structures are assigned no desirable pupil capacity and cannot be considered an integral part of the school plant. They should be replaced as soon as possible.
6) No basement used for instruction or other programs involving students	Basements generally do not provide a suitable environment for instruction.
7) No original, addition, or temporary structure built of wood exclusively	All-wood construction is most susceptible to damage by fire.
8) Central heating in original building ¹	Central heating systems are highly preferable to space heaters; if the original building has a central heating system, it may be assumed that attached additions do also.
9) Central air conditioning, or window units for all rooms, in original building or any addition ¹	The presence of some type of mechanical cooling system in some part of the facility would help to qualify a given school for 12-month operation.
10) Some fluorescent lighting in instructional areas of original and all additions ¹	Fluorescent lamps are more efficient and more economical over a period of years than incandescent lamps. Newer buildings almost always utilize some fluorescents (may be in combination with incandescents), and the presence of some fluorescent lighting in older buildings usually indicates that some improvements in the lighting system have been made in recent years.

¹Temporary structures are not considered in items 8, 9, and 10.

Criteria for an Adequate School Plant
(continued)

Criterion	Rationale
11) Water supplied by water utility	Quality and quantity of water supply are generally more dependable when the source is a utility.
12) Meets seven of eleven of above criteria	Since it is quite conceivable that not all authorities would be able to agree on all of the eleven standards listed above, and since an 'adequate' school plant can be visualized which does not meet <u>all</u> the standards, an 'adequate school plant' was defined as one which met seven of the eleven standards.

'Substandard' Plants

A set of criteria for the profile of a 'substandard school plant', most of which turn out to be the reverse of criteria for the 'adequate school plant' was delineated. A plant had to meet seven of the eleven initial criteria in order to be classified as substandard according to the twelfth criterion.

The twelve criteria for a substandard school plant are listed and explained below.

Criteria for a Substandard School Plant

Criterion	Rationale
1) Enrollment/capacity ratio is >1	The quality of the educational program is jeopardized when a school becomes overcrowded.
2) Does not meet national size standards for organizational level	Schools that are too small or too large, according to national standards, do not provide maximum educational opportunities for students, and may not be operating efficiently or economically.

Criteria for a Substandard School Plant
(continued)

-
- | | |
|--|---|
| 3) Does not meet national site size standards | Schools with grounds of insufficient size, according to national standards, probably do not provide adequate recreational or environmental study opportunities for students. |
| 4) Original building over 30 years of age | Past the age of 30 a wide range of physical problems begins to beset a school plant, and the adequacy of the original design for conduct of current educational programs may be called into question. |
| 5) Using temporary structures | Temporary structures are assigned no desirable pupil capacity and cannot be considered an integral part of the school plant. They should be replaced as soon as possible. |
| 6) Basement of some structure used for instruction or other programs involving students | Basements generally do not provide a suitable environment for instruction. |
| 7) Some structure built of wood exclusively | All-wood construction is most susceptible to damage by fire. |
| 8) Space heaters in original building ¹ | Space heaters cannot provide an optimum thermal environment during the winter months. |
| 9) No mechanical cooling system in original building or any addition ¹ | A school with no mechanical cooling system would not provide a comfortable setting for 12-month operation. |
| 10) No fluorescent lighting in instructional areas of original or additions ¹ | In the long run incandescent lamps are more expensive to operate than fluorescent lamps. Older schools that have no fluorescent lighting probably have outdated lighting systems. |
| 11) Water supplied by source other than water utility | Quality and quantity of water supply are generally more dependable when the source is a utility. |

¹Temporary structures are not considered in items 8, 9, and 10.

Criteria for a Substandard School Plant
(continued)

Criterion	Rationale
12) Meets seven of eleven of above criteria	Some authorities might disagree with one or more of the criteria established herein for a 'substandard plant'. A school need not fulfill all eleven criteria to be considered substandard. Thus the 'substandard school plant' was defined as a plant that met seven of the eleven criteria specified above.

Table 2.16 presents the adequate and substandard plant profile data for all Tennessee schools. For convenience 'adequate' and 'substandard' ratings were combined in a single table even though a school not rated 'adequate' on Criterion 9, 10, or 12 was not necessarily 'substandard'. (Thus summing 'adequate' and 'substandard' ratings for Criterion 9, 10, or 12 may not equal 100 percent.)

TABLE 2.14

PLANT PROFILES

ALL TENNESSEE SCHOOLS

CRITERION	ADEQUATE		SUBSTANDARD	
	NUMBER	PERCENTAGE	NUMBER	PERCENTAGE
1. ENROLLMENT/CAPACITY RATIO \leq 1	1038	73.2	381	26.8
2. MEETS NATIONAL SCHOOL SIZE STANDARDS	560	38.8	883	61.2
3. MEETS NATIONAL SITE SIZE STANDARDS	226	16.2	1172	83.8
4. ORIGINAL BUILDING 30 YRS OLD OR LESS	93	63.2	520	36.8
5. NO TEMPORARY STRUCTURES	1144	78.8	307	21.2
6. NO BASEMENT USED FOR INSTRUCTION	1113	76.7	338	23.3
7. NO BUILDING OF WOOD EXCLUSIVELY	1344	92.6	107	7.4
8. CENTRAL HEATING IN ORIGINAL BUILDING	1298	89.5	153	10.5
9. CENTRAL AIR OR ALL WINDOW UNITS	343	23.6	784	54.0
10. COMPLETE FLUORESCENT LIGHTING	825	56.9	369	25.4
11. USE OF WATER UTILITY	1258	86.7	193	13.3
12. MEETS 7 OF 11 OF ABOVE CRITERIA	863	59.5	59	4.1

SECTION 3

SCHOOL PLANT DATA FOR TENNESSEE SCHOOLS CATEGORIZED BY GRAND DIVISION OF STATE AND BY ORGANIZATIONAL LEVEL

THE DATA CATEGORIES

Section 2 of this report included a presentation of school plant data pertaining to the category 'all Tennessee schools'. A detailed discussion of questionnaire items and the bases for interpreting responses to these items accompanied this presentation. The reader is urged to refer often to Section 2 for guidance in interpreting material in Section 3 since this section consists primarily of Summary Tables and Data Displays (see explanations below) in twelve separate school categories. Figure 3.1 illustrates how these categories were constructed, using four organizational levels and three Grand Divisions of the State. The figure also contains information on the number of usable questionnaires received in each category.

Figure 3.1 Number of Survey Respondents in Each of Twelve School Categories

ORGANIZATIONAL LEVEL	GRAND DIVISION OF STATE			Total
	West Tennessee	Middle Tennessee	East Tennessee	
Elementary	231	311	453	995
Middle	39	52	61	152
Secondary	59	77	96	232
Combined	28	25	19	72
	357	465	629	1451

East Tennessee may appear to be over-represented in the survey sample. In fact, there was an almost perfect correspondence between the percentage of schools actually located in each Grand Division of the State and the percentage of schools from each region represented in the survey. More precisely,

43.1 percent of Tennessee's public schools in 1973 were located in East Tennessee; 32.1 percent were in Middle Tennessee; and 24.8 percent were in West Tennessee. In this survey 43.2 percent of the responses were from East Tennessee schools, 32 percent came from Middle Tennessee schools, and 24.8 percent were from West Tennessee schools. (See Appendix B for a listing of counties in each Grand Division.)

The survey sample also represented the State adequately with respect to school organizational level. In 1973 approximately 70.5 percent of Tennessee's public schools were elementary schools, 10.3 percent were middle schools, 14.8 percent were secondary schools, and 4.4 percent were combined schools. In the survey sample 68.5 percent of the schools were elementary schools, 10.5 percent were middle schools, 16 percent were secondary schools, and 5 percent were combined schools.

DATA DISPLAYS DEFINED

Section 3 contains twelve Data Displays: one for each combination of three Grand Divisions of the State and four organizational levels. Each Data Display consists of statistical summaries for each questionnaire item, and plant profiles which indicate how many and what percentage of the schools in the category were judged 'adequate' or 'substandard' on the basis of twelve specified criteria. For convenience 'adequate' and 'substandard' ratings were combined in a single table even though a school not rated 'adequate' on Criterion 9, 10, or 12 was not necessarily 'substandard'. (Thus summing 'adequate' and 'substandard' ratings for Criterion 9, 10, or 12 may not equal 100 percent.)

The form and order of presentation of figures and tables in the Data Displays of Section 3 are almost identical to the form and order utilized in the Section 2 presentation.

SUMMARY TABLES DEFINED

In order to provide some frame of reference for interpreting the plant profile statistics included in the Data Display for each school category, the Data Displays are preceded in this section by a set of Summary Tables. These tables summarize statistics on each plant profile criterion across all twelve school categories. Below each table is a set of reference points for the criterion:

- 1) School category having the highest percentage of 'adequate' plants
- 2) School category having the highest percentage of 'substandard' plants
- 3) Percentage of all Tennessee schools having 'adequate' ratings
- 4) Percentage of all Tennessee schools having 'substandard' ratings.

Summary tables 3.12, 3.13, and 3.14 permit broader comparisons than the other tables in Section 3. These tables contain information on Criterion 12, the standard which summarizes all other criteria for 'adequate' and 'substandard' school plants.

Summary Table 3.12

Summary Table 3.12 contains the information required for a general statement about the adequacy of Tennessee's public school plants categorized by Grand Division of the State and organizational level. According to ratings on Criterion 12, middle schools in West Tennessee included the highest percentage (76.9) of 'adequate' school plants in 1973. The highest percentage (7.1) of 'substandard' plants was found among combined schools in West Tennessee.

Summary Table 3.13

Summary Table 3.13 reveals that the largest percentage (67.8) of 'adequate' school plants in the State was to be found in West Tennessee. In

Middle Tennessee 59.2 percent of the plants were found to be 'adequate'; in East Tennessee just 55 percent of the plants were termed 'adequate' according to the standards established for this study. Likewise, the largest percentage (5.7) of 'substandard' school plants was found to be located in East Tennessee. Middle Tennessee was second with 3.4 percent, and West Tennessee had the smallest percentage of substandard plants: 2.0.

Summary Table 3.14

In Summary Table 3.14 plants are compared across organizational levels. Secondary schools fared best, with 71.6 percent classified as 'adequate'. Following closely were middle schools with 71.1 percent. Just 56.3 percent of the school plants at the elementary level were judged 'adequate', but still fewer combined schools (41.7 percent) achieved the 'adequate' rating. For the 'substandard' ratings the order was as follows: combined schools had the highest percentage (5.6), elementary schools were next (4.5), middle schools had 4.0 percent, and secondary schools had the smallest percentage (1.7) of 'substandard' plants.

USING DATA DISPLAYS AND SUMMARY TABLES

Knowing two facts about a school, i.e., whether it is in West, Middle, or East Tennessee (Appendix B lists the counties in each region) and whether it is an elementary, middle, secondary, or combined school (precise definitions of organizational levels are given in Section 1 under "School Classification System"), one can locate the appropriate Data Display for that combination of identifiers (e.g., 'elementary school in West Tennessee') and obtain the following information:

- 1) Number and percentage of schools in the category using specified proportions of school plant capacity

- 2) Number and percentage of schools that exceed capacity
- 3) Number and percentage of schools having sites of specified sizes (in acres)
- 4) Median school site size
- 5) Number and percentage of schools meeting site size requirements
- 6) Number and percentage of buildings occurring at specified stages of the school life cycle
- 7) Number and percentage of school buildings constructed or added in specified decades, 1840-1973
- 8) Year of construction of oldest structure
- 9) Mean year of construction
- 10) Number and percentage of schools having specified numbers of additional and temporary structures
- 11) Number and percentage of schools occurring in specified school enrollment categories
- 12) Number and percentage of buildings using basements for instruction or other programs involving students
- 13) Number and percentage of schools using the basement of some structure for instruction
- 14) Number and percentage of buildings having specified numbers of stories (excluding basement)
- 15) Number and percentage of buildings of two or more stories built before 1920
- 16) Number and percentage of all wood structures of more than one story
- 17) Number and percentage of buildings using selected exterior construction materials
- 18) Number and percentage of buildings using specified types of heating, cooling, and lighting equipment

19) Number and percentage of schools using specified sources of water supply

20) Number and percentage of principals expressing specified facility needs

21) Plant profiles: number and percentage of schools having 'adequate' or 'substandard' plants according to specified criteria

(To locate the page number of the Data Display for a given school category, the reader should consult the Table of Contents.)

For comparative data on the 'adequate' and 'substandard' plant profiles the reader is urged to refer to the Summary Tables immediately preceding the Data Displays. Here are identified for each of the plant profile criteria: (1) the highest percentage of 'adequate' plants, and (2) the highest percentage of 'substandard' plants among the twelve specified categories; and (3) the percentage of 'adequate' and (4) 'substandard' plants for all Tennessee schools (an average).

The number of respondents in the category is printed just below the title of each of the twelve Data Displays. All percentages in a given Data Display were calculated on the basis of this number of respondents unless a smaller figure appears as 'Total' for an item. The smaller figures were used to calculate percentages for items on which the response rate was less than 100 percent.

A few of the summary statements appearing below the tables contain a percentage figure that differs slightly from the percentage that is obtained by summing figures in the related table. This discrepancy is due to the rounding of decimal figures in the table.

PREPARATION AND POSITIONING OF DATA DISPLAYS

In the interests of accuracy and economy, all Data Displays were prepared by an IBM 360/65 computer. Pages produced by the computer were reduced in size for placement on an 8 1/2" x 11" sheet. Both Summary Tables and Data Displays were positioned lengthwise on the page to facilitate referral from one to the other.

SUMMARY TABLES

93

70

Summary Table 3.1 Percentage of Tennessee Schools in Each of Twelve Categories Rated 'Adequate' or 'Substandard' According to Criterion 1 (Enrollment/Capacity ratio less than or equal to 1)

Grand Division	Organizational Level	Rating	
		Adequate	Substandard
West	Elementary (231)*	80.6%	19.4%
	Middle (39)	84.2	15.8
	Secondary (59)	65.5	34.5
	Combined (28)	65.4	34.6
Middle	Elementary (311)	72.0	28.0
	Middle (52)	59.6	40.4
	Secondary (77)	53.2	46.8
	Combined (25)	66.7	33.3
East	Elementary (453)	77.5	22.5
	Middle (61)	67.2	32.8
	Secondary (96)	71.9	28.1
	Combined (19)	61.1	38.9

*Number in parentheses = total number of schools in this category represented in the survey.

Criterion 1 Reference Points

- (1) Highest Percentage of Adequate Plants: 84.2 (Middle Schools in West Tennessee)
- (2) Highest Percentage of Substandard Plants: 46.8 (Secondary Schools in Middle Tennessee)
- (3) Percentage of Adequate Plants for All Tennessee Schools: 73.2
- (4) Percentage of Substandard Plants for All Tennessee Schools: 26.8

Summary Table 3.2 Percentage of Tennessee Schools in Each of Twelve Categories Rated 'Adequate' or 'Substandard' According to Criterion 2 (Meets National School Size Standards)

Grand Division	Organizational Level		Rating	
			Adequate	Substandard
West	Elementary	(231)*	27.8%	72.2%
	Middle	(39)	38.5	61.5
	Secondary	(59)	49.2	50.8
	Combined	(28)	75.0	25.0
Middle	Elementary	(311)	30.3	69.7
	Middle	(52)	44.2	55.8
	Secondary	(77)	64.9	35.1
	Combined	(25)	80.0	20.0
East	Elementary	(453)	29.7	70.3
	Middle	(61)	55.0	45.0
	Secondary	(96)	63.5	36.5
	Combined	(19)	89.5	10.5

*Number in parentheses = total number of schools in this category represented in the survey.

Criterion 2 Reference Points

- (1) Highest Percentage of Adequate Plants: 89.5 (Combined Schools in East Tennessee)
- (2) Highest Percentage of Substandard Plants: 72.2 (Elementary Schools in West Tennessee)
- (3) Percentage of Adequate Plants for All Tennessee Schools: 38.8
- (4) Percentage of Substandard Plants for All Tennessee Schools: 61.2

Summary Table 3.3 Percentage of Tennessee Schools in Each of Twelve Categories Rated 'Adequate' or 'Substandard' According to Criterion 3 (Meets National Site Size Standards)

Grand Division	Organizational Level		Rating	
			Adequate	Substandard
West	Elementary	(231)*	21.2%	78.8%
	Middle	(39)	10.8	89.2
	Secondary	(59)	10.7	89.3
	Combined	(28)	0.0	100.0
Middle	Elementary	(311)	16.6	83.4
	Middle	(52)	21.2	78.8
	Secondary	(77)	17.1	82.9
	Combined	(25)	8.0	92.0
East	Elementary	(453)	16.9	83.1
	Middle	(61)	11.9	88.1
	Secondary	(96)	13.8	86.2
	Combined	(19)	0.0	100.0

*Number in parentheses = total number of schools in this category represented in the survey.

Criterion 3 Reference Points

- (1) Highest Percentage of Adequate Plants: 21.2 (Elementary Schools in West Tennessee and Middle Schools in Middle Tennessee)
- (2) Highest Percentage of Substandard Plants: 100 (Combined Schools in West Tennessee and Combined Schools in East Tennessee)
- (3) Percentage of Adequate Plants for All Tennessee Schools: 16.2
- (4) Percentage of Substandard Plants for All Tennessee Schools: 83.8

Summary Table 3.4 Percentage of Tennessee Schools in Each of Twelve Categories Rated 'Adequate' or 'Substandard' According to Criterion 4 (Original Building thirty years old or less)

Grand Division	Organizational Level		Rating	
			Adequate	Substandard
West	Elementary	(231)*	72.3%	27.7%
	Middle	(39)	74.4	25.6
	Secondary	(59)	67.2	32.8
	Combined	(28)	22.2	77.8
Middle	Elementary	(311)	67.4	32.6
	Middle	(52)	63.5	36.5
	Secondary	(77)	75.0	25.0
	Combined	(25)	33.3	66.7
East	Elementary	(453)	55.4	44.6
	Middle	(61)	57.6	42.4
	Secondary	(96)	77.4	22.6
	Combined	(19)	27.8	72.2

*Number in parentheses = total number of schools in this category represented in the survey.

Criterion 4 Reference Points

- (1) Highest Percentage of Adequate Plants: 77.4 (Secondary Schools in East Tennessee)
- (2) Highest Percentage of Substandard Plants: 77.8 (Combined Schools in West Tennessee)
- (3) Percentage of Adequate Plants for All Tennessee Schools: 63.2
- (4) Percentage of Substandard Plants for All Tennessee Schools: 36.8

Summary Table 3.5 Percentage of Tennessee Schools in Each of Twelve Categories Rated 'Adequate' or 'Substandard' According to Criterion 5 (No Temporary Structures)

Grand Division	Organizational Level	Rating	
		Adequate	Substandard
West	Elementary (231)*	77.9%	22.1%
	Middle (39)	84.6	15.4
	Secondary (59)	83.1	16.9
	Combined (28)	71.4	28.6
Middle	Elementary (311)	77.5	22.5
	Middle (52)	73.1	26.9
	Secondary (77)	76.6	23.4
	Combined (25)	84.0	16.0
East	Elementary (453)	80.6	19.4
	Middle (61)	82.0	18.0
	Secondary (96)	79.2	20.8
	Combined (19)	63.2	36.8

*Number in parentheses = total number of schools in this category represented in the survey.

Criterion 5 Reference Points

- (1) Highest Percentage of Adequate Plants: 84.6 (Middle Schools in West Tennessee)
- (2) Highest Percentage of Substandard Plants: 36.8 (Combined Schools in East Tennessee)
- (3) Percentage of Adequate Plants for All Tennessee Schools: 78.8
- (4) Percentage of Substandard Plants for All Tennessee Schools: 21.2

75

Summary Table 3.6 Percentage of Tennessee Schools in Each of Twelve Categories Rated 'Adequate' or 'Substandard' According to Criterion 6 (No Basement used for Instruction)

Grand Division	Organizational Level		Rating	
			Adequate	Substandard
West	Elementary	(231)*	82.7%	17.3%
	Middle	(39)	66.7	33.3
	Secondary	(59)	71.2	28.8
	Combined	(28)	64.3	35.7
Middle	Elementary	(311)	78.8	21.2
	Middle	(52)	67.3	32.7
	Secondary	(77)	70.1	29.9
	Combined	(25)	48.0	52.0
East	Elementary	(453)	77.5	22.5
	Middle	(61)	73.8	26.2
	Secondary	(96)	81.3	18.8
	Combined	(19)	84.2	15.8

*Number in parentheses = total number of schools in this category represented in the survey.

Criterion 6 Reference Points

- (1) Highest Percentage of Adequate Plants: 84.2 (Combined Schools in East Tennessee)
- (2) Highest Percentage of Substandard Plants: 52 (Combined Schools in Middle Tennessee)
- (3) Percentage of Adequate Plants for All Tennessee Schools: 76.7
- (4) Percentage of Substandard Plants for All Tennessee Schools: 23.3

Summary Table 3.7 Percentage of Tennessee Schools in Each of Twelve Categories Rated 'Adequate' or 'Substandard' According to Criterion 7 (No Building of Wood Exclusively)

Grand Division	Organizational Level	Rating	
		Adequate	Substandard
West	Elementary (231)*	94.8%	5.2%
	Middle (39)	97.4	2.6
	Secondary (59)	100.0	0.0
	Combined (28)	92.9	7.1
Middle	Elementary (311)	93.9	6.1
	Middle (52)	98.1	1.9
	Secondary (77)	94.8	5.2
	Combined (25)	100.0	0.0
East	Elementary (453)	88.7	11.3
	Middle (61)	91.8	8.2
	Secondary (96)	91.7	8.3
	Combined (19)	78.9	21.1

*Number in parentheses = total number of schools in this category represented in the survey.

Criterion 7 Reference Points

- (1) Highest Percentage of Adequate Plants: 100 (Secondary Schools in West Tennessee and Combined Schools in Middle Tennessee)
- (2) Highest Percentage of Substandard Plants: 21.1 (Combined Schools in East Tennessee)
- (3) Percentage of Adequate Plants for All Tennessee Schools: 92.6
- (4) Percentage of Substandard Plants for All Tennessee Schools: 7.4

Summary Table 3.8 Percentage of Tennessee Schools in Each of Twelve Categories Rated 'Adequate' or 'Substandard' According to Criterion 8 (Central Heating in Original Building)

Grand Division	Organizational Level		Rating	
			Adequate	Substandard
West	Elementary	(231)*	86.1%	13.9%
	Middle	(39)	92.3	7.7
	Secondary	(59)	91.5	8.5
	Combined	(28)	89.3	10.7
Middle	Elementary	(311)	87.1	12.9
	Middle	(52)	96.2	3.8
	Secondary	(77)	94.8	5.2
	Combined	(25)	76.0	24.0
East	Elementary	(453)	90.3	9.7
	Middle	(61)	91.8	8.2
	Secondary	(96)	92.7	7.3
	Combined	(19)	89.5	10.5

*Number in parentheses = total number of schools in this category represented in the survey.

Criterion 8 Reference Points

- (1) Highest Percentage of Adequate Plants: 96.2 (Middle Schools in Middle Tennessee)
- (2) Highest Percentage of Substandard Plants: 24 (Combined Schools in Middle Tennessee)
- (3) Percentage of Adequate Plants for All Tennessee Schools: 89.5
- (4) Percentage of Substandard Plants for All Tennessee Schools: 10.5

Summary Table 3.9 Percentage of Tennessee Schools in Each of Twelve Categories Rated 'Adequate' or 'Substandard' According to Criterion 9 (Central Air or all Window Units)

Grand Division	Organizational Level		Rating	
			Adequate	Substandard
West	Elementary	(231)*	28.6%	44.2%
	Middle	(39)	46.2	35.9
	Secondary	(59)	37.3	27.1
	Combined	(28)	28.6	32.1
Middle	Elementary	(311)	18.0	58.2
	Middle	(52)	48.1	42.3
	Secondary	(77)	31.2	39.0
	Combined	(25)	8.0	68.0
East	Elementary	(453)	15.9	68.4
	Middle	(61)	27.9	57.4
	Secondary	(96)	33.3	35.4
	Combined	(19)	5.3	73.7

*Number in parentheses = total number of schools in this category represented in the survey.

Criterion 9 Reference Points

- (1) Highest Percentage of Adequate Plants: 48.1 (Middle Schools in Middle Tennessee)
- (2) Highest Percentage of Substandard Plants: 73.7 (Combined Schools in East Tennessee)
- (3) Percentage of Adequate Plants for All Tennessee Schools: 23.6
- (4) Percentage of Substandard Plants for All Tennessee Schools: 54.0

Summary Table 3.10 Percentage of Tennessee Schools in Each of Twelve Categories Rated 'Adequate' or 'Substandard' According to Criterion 10 (Complete Fluorescent Lighting)

Grand Division	Organizational Level	Rating	
		Adequate	Substandard
West	Elementary (231)*	66.2%	18.6%
	Middle (39)	79.5	12.8
	Secondary (59)	76.3	13.6
	Combined (28)	32.1	25.0
Middle	Elementary (311)	51.4	31.2
	Middle (52)	76.9	13.5
	Secondary (77)	70.1	15.6
	Combined (25)	32.0	28.0
East	Elementary (453)	48.8	33.1
	Middle (61)	63.9	14.8
	Secondary (96)	60.4	16.7
	Combined (19)	36.8	42.1

*Number in parentheses = total number of schools in this category represented in the survey.

Criterion 10 Reference Points

- (1) Highest Percentage of Adequate Plants: 79.5 (Middle Schools in West Tennessee)
- (2) Highest Percentage of Substandard Plants: 42.1 (Combined Schools in East Tennessee)
- (3) Percentage of Adequate Plants for All Tennessee Schools: 56.9
- (4) Percentage of Substandard Plants for All Tennessee Schools: 25.4

Summary Table 3.11 Percentage of Tennessee Schools in Each of Twelve Categories Rated 'Adequate' or 'Substandard' According to Criterion 11 (Use of Water Utility)

Grand Division	Organizational Level	Rating	
		Adequate	Substandard
West	Elementary (231)*	89.2%	10.8%
	Middle (39)	100.0	0.0
	Secondary (59)	98.3	1.7
	Combined (28)	85.7	14.3
Middle	Elementary (311)	86.2	13.8
	Middle (52)	100.0	0.0
	Secondary (77)	94.8	5.2
	Combined (25)	80.0	20.0
East	Elementary (453)	78.1	21.9
	Middle (61)	100.0	0.0
	Secondary (96)	95.8	4.2
	Combined (19)	57.9	42.1

*Number in parentheses = total number of schools in this category represented in the survey.

Criterion 11 Reference Points

- (1) Highest Percentage of Adequate Plants: 100% (Middle Schools in West Tennessee, Middle Schools in Middle Tennessee, Middle Schools in East Tennessee)
- (2) Highest Percentage of Substandard Plants: 42.1 (Combined Schools in East Tennessee)
- (3) Percentage of Adequate Plants for All Tennessee Schools: 86.7
- (4) Percentage of Substandard Plants for All Tennessee Schools: 13.3



Summary Table 3.12 Percentage of Tennessee Schools in Each of Twelve Categories Rated 'Adequate' or 'Substandard' According to Criterion 12 (Meets 7 of 11 of Above Criteria)

Grand Division	Organizational Level	Rating	
		Adequate	Substandard
West	Elementary (231)*	68.8%	1.7%
	Middle (39)	76.9	2.6
	Secondary (59)	69.5	0.0
	Combined (28)	42.9	7.1
Middle	Elementary (311)	56.3	3.5
	Middle (52)	67.3	3.8
	Secondary (77)	68.8	2.6
	Combined (25)	48.0	4.0
East	Elementary (453)	49.7	6.6
	Middle (61)	70.5	4.9
	Secondary (96)	75.0	2.1
	Combined (19)	31.6	5.3

*Number in parentheses = total number of schools in this category represented in the survey.

Criterion 12 Reference Points

- (1) Highest Percentage of Adequate Plants: 76.9 (Middle Schools in West Tennessee)
- (2) Highest Percentage of Substandard Plants: 7.1 (Combined Schools in West Tennessee)
- (3) Percentage of Adequate Plants for All Tennessee Schools: 59.5
- (4) Percentage of Substandard Plants for All Tennessee Schools: 4.1

Summary Table 3.13 Number and Percentage of Schools in West, Middle and East Tennessee Rated 'Adequate' or 'Substandard' According to Criterion 12 (Meets 7 of 11 of Above Criteria)

	West Tennessee		Middle Tennessee		East Tennessee	
	Adequate	Substandard	Adequate	Substandard	Adequate	Substandard
Number	242	7	275	16	346	36
Percentage	67.8%	2.0%	59.2%	3.4%	55.0%	5.7%

Summary Table 3.14 Number and Percentage of Elementary, Middle, Secondary and Combined Schools in Tennessee Rated 'Adequate' or 'Substandard' According to Criterion 12 (Meets 7 of 11 of Above Criteria)

	Elementary		Middle		Secondary		Combined	
	Adequate	Substandard	Adequate	Substandard	Adequate	Substandard	Adequate	Substandard
Number	559	45	108	6	166	4	30	4
Percentage	56.3%	4.5%	71.1%	4.0%	71.6%	1.7%	41.7%	5.6%

DATA DISPLAYS

120

84

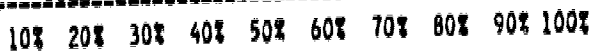
DATA DISPLAY 3.1

ELEMENTARY SCHOOLS IN WEST TENNESSEE

231 RESPONDENTS

NUMBER AND PERCENTAGE OF ELEMENTARY SCHOOLS IN WEST TENNESSEE
USING SPECIFIED PROPORTIONS OF SCHOOL PLANT CAPACITY

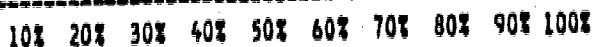
ENROLLMENT/CAPACITY RATIO	NUMBER	PERCENTAGE	
ABOVE 0.0- 0.5	11	5.0	**
ABOVE 0.5- 0.8	75	33.8	*****
ABOVE 0.8- 1.0	93	41.9	*****
ABOVE 1.0- 1.5	41	18.5	*****
ABOVE 1.5- 2.0	1	0.5	
ABOVE 2.0-13.0	1	0.5	
TOTAL	222	100.0	-----



SCHOOLS THAT EXCEED CAPACITY: 43 19.4%

NUMBER AND PERCENTAGE OF ELEMENTARY SCHOOLS IN WEST TENNESSEE
HAVING SITES OF SPECIFIED SIZES (IN ACRES)

ACRES	NUMBER	PERCENTAGE	
0- LESS THAN 1	0	0.0	
1- LESS THAN 5	41	18.5	*****
5- LESS THAN 10	69	30.6	*****
10- LESS THAN 20	93	37.4	*****
20- LESS THAN 30	25	11.3	*****
30- LESS THAN 50	4	1.8	*
50- LESS THAN 100	1	0.5	
TOTAL	222	100.0	-----



MED. AN SCHOOL SITE SIZE IS 10 ACRES

NUMBER AND PERCENTAGE OF ELEMENTARY SCHOOLS IN WEST TENNESSEE
MEETING SITE SIZE REQUIREMENTS: 47 21.2%



NUMBER AND PERCENTAGE OF BUILDINGS OF ELEMENTARY SCHOOLS IN WEST TENNESSEE OCCURRING AT SPECIFIED STAGES OF THE SCHOOL LIFE CYCLE

AGE (IN YEARS)	ORIGINAL		ADD1		ADD2		ADD3		TEMP1		TEMP2		TEMP3	
60 OR OVER	15	6.7	2	1.5	0	0.0	1	3.8	0	0.0	0	0.0	0	0.0
40- LESS THAN 60	29	12.9	7	5.1	2	2.4	0	0.0	0	0.0	0	0.0	0	0.0
20- LESS THAN 40	75	33.5	30	21.9	15	18.3	6	23.1	1	2.6	0	0.0	1	7.1
LESS THAN 20	105	46.9	98	71.5	65	79.3	19	73.1	38	97.4	21	100.0	13	92.9
TOTAL	224	100.0	137	100.0	82	100.0	26	100.0	39	100.0	21	100.0	14	100.0

NUMBER AND PERCENTAGE OF BUILDINGS OF ELEMENTARY SCHOOLS IN WEST TENNESSEE CONSTRUCTED OR ADDED IN SPECIFIED DECADES, 1840-1973

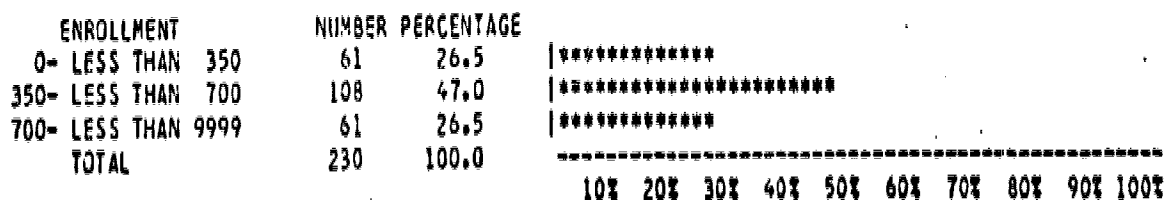
	ORIGINAL		ADD1		ADD2		ADD3		TEMP1		TEMP2		TEMP3	
AFTER 1840 - 1870	2	0.9	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1870 - 1880	1	0.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1880 - 1890	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1890 - 1900	3	1.3	2	1.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1900 - 1910	8	3.6	0	0.0	0	0.0	1	3.8	0	0.0	0	0.0	0	0.0
AFTER 1910 - 1920	12	5.4	1	0.7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1920 - 1930	15	6.7	6	4.4	2	2.4	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1930 - 1940	20	8.9	9	6.6	2	2.4	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1940 - 1950	29	12.9	12	8.8	9	11.0	2	7.7	0	0.0	0	0.0	1	7.1
AFTER 1950 - 1960	81	36.2	54	39.4	23	28.0	10	38.5	2	5.1	0	0.0	0	0.0
AFTER 1960 - 1970	50	22.3	47	34.3	41	50.0	11	42.3	26	66.7	11	52.4	4	28.6
AFTER 1970 - 1973	3	1.3	6	4.4	5	6.1	2	7.7	11	28.2	10	47.6	9	64.3
TOTAL	224	100.0	137	100.0	82	100.0	26	100.0	39	100.0	21	100.0	14	100.0

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
OLDEST STRUCTURE	1848	1899	1921	1909	1952	1966	1949
MEAN YEAR OF CONSTRUCTION	1947	1955	1959	1958	1968	1970	1969

NUMBER AND PERCENTAGE OF ELEMENTARY SCHOOLS IN WEST TENNESSEE HAVING SPECIFIED NUMBERS OF ADDITIONAL AND TEMPORARY STRUCTURES

	ADDITIONS		TEMPORARIES	
0	81	35.1	180	77.9
1	77	33.3	32	13.9
2	51	22.1	15	6.5
3	22	9.5	4	1.7
TOTAL	231	100.0	231	100.0

NUMBER AND PERCENTAGE OF ELEMENTARY SCHOOLS IN WEST TENNESSEE OCCURRING IN SPECIFIED SCHOOL ENROLLMENT CATEGORIES



NUMBER AND PERCENTAGE OF BUILDINGS OF ELEMENTARY SCHOOLS IN WEST TENNESSEE
UTILIZING BASEMENTS FOR INSTRUCTION OR OTHER PROGRAMS INVOLVING STUDENTS

ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
32 13.9	14 10.2	2 2.4	1 3.8	1 2.6	0 0.0	0 0.0

SCHOOLS USING BASEMENT OF SOME STRUCTURE FOR INSTRUCTION: 40 17.3%

NUMBER AND PERCENTAGE OF BUILDINGS OF ELEMENTARY SCHOOLS IN WEST TENNESSEE
HAVING SPECIFIED NUMBERS OF STORIES (EXCLUDING BASEMENT)

NUMBER OF STORIES	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
1 STORY	149 64.5	89 65.0	62 75.6	20 76.9	38 97.4	21 100.0	14 100.0
2 STORIES	62 26.8	41 29.9	18 22.0	6 23.1	1 2.6	0 0.0	0 0.0
3 STORIES	20 8.7	7 5.1	2 2.4	0 0.0	0 0.0	0 0.0	0 0.0
4 STORIES	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
TOTAL	231 100.0	137 100.0	82 100.0	26 100.0	39 100.0	21 100.0	14 100.0

TWO STORIES OR MORE BUILT BEFORE 1920

22 9.5	2 1.5	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
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ALL WOOD STRUCTURES OF MORE THAN ONE STORY

0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
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NUMBER AND PERCENTAGE OF BUILDINGS OF ELEMENTARY SCHOOLS IN WEST TENNESSEE
USING SELECTED EXTERIOR CONSTRUCTION MATERIALS

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
BRICK	165 71.4	105 76.6	69 84.1	23 88.5	2 5.1	0 0.0	0 0.0
WOOD	5 2.2	1 0.7	1 1.2	1 3.8	3 7.7	2 9.5	3 21.4
METAL	0 0.0	1 0.7	3 3.7	0 0.0	25 64.1	12 57.1	7 50.0
STONE	3 1.3	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
CONCRETE	8 3.5	4 2.9	1 1.2	0 0.0	0 0.0	0 0.0	0 0.0
OTHER	1 0.4	0 0.0	0 0.0	0 0.0	1 2.6	2 9.5	2 14.3
BRICK, WOOD	6 2.6	4 2.9	1 1.2	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, METAL	4 1.7	3 2.2	1 1.2	0 0.0	1 2.6	0 0.0	0 0.0
BRICK, STONE	3 1.3	1 0.7	1 1.2	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, CONCRETE	14 6.1	8 5.8	1 1.2	1 3.8	0 0.0	0 0.0	0 0.0
BRICK, OTHER	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD, METAL	1 0.4	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD, CONCRETE	5 2.2	2 1.5	1 1.2	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, METAL, CONCRETE	4 1.7	2 1.5	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, STONE, CONCRETE	4 1.7	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD, METAL, CONCRETE	3 1.3	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
ALL OTHER COMBINATIONS	5 2.2	2 1.5	0 0.0	0 0.0	4 10.3	2 9.5	0 0.0
NO RESPONSE	0 0.0	4 2.9	3 3.7	1 3.8	3 7.7	3 14.3	2 14.3
TOTAL	231 100.0	137 100.0	82 100.0	26 100.0	39 100.0	21 100.0	14 100.0

NUMBER AND PERCENTAGE OF BUILDINGS OF ELEMENTARY SCHOOLS IN WEST TENNESSEE
USING SPECIFIED TYPES OF HEATING, COOLING, AND LIGHTING EQUIPMENT

HEATING EQUIPMENT

	ORIGINAL		ADD1		ADD2		ADD3		TEMP1		TEMP2		TEMP3	
JUST CENTRAL	186	80.5	107	78.1	54	65.9	18	69.2	18	46.2	9	42.9	4	28.6
JUST SPACE	28	12.1	15	10.9	18	22.0	5	19.2	15	38.5	9	42.9	8	57.1
CENTRAL & SPACE	13	5.6	8	5.8	5	6.1	1	3.8	2	5.1	1	4.8	0	0.0
NO RESPONSE	4	1.7	7	5.1	5	6.1	2	7.7	4	10.3	2	9.5	2	14.3
TOTAL	231	100.0	137	100.0	82	100.0	26	100.0	39	100.0	21	100.0	14	100.0

COOLING EQUIPMENT

	ORIGINAL		ADD1		ADD2		ADD3		TEMP1		TEMP2		TEMP3	
JUST CENTRAL	42	18.2	23	16.8	11	13.4	5	19.2	25	64.1	14	66.7	6	42.9
JUST WINDOW UNIT	68	29.4	24	17.5	17	20.7	3	11.5	5	12.8	2	9.5	4	28.6
CENTRAL & WINDOW	2	0.9	2	1.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
NO MECHANICAL	119	51.5	88	64.2	54	65.9	18	69.2	9	23.1	5	23.8	4	28.6
TOTAL	231	100.0	137	100.0	82	100.0	26	100.0	39	100.0	21	100.0	14	100.0

WINDOW UNIT COOLING

	ORIGINAL		ADD1		ADD2		ADD3		TEMP1		TEMP2		TEMP3	
ALL ROOMS	30	42.9	16	61.5	10	58.8	2	66.7	5	100.0	2	100.0	3	75.0
SELECTED ROOMS	36	51.4	6	23.1	3	17.6	0	0.0	0	0.0	0	0.0	0	0.0
NO RESPONSE	4	5.7	4	15.4	4	23.5	1	33.3	0	0.0	0	0.0	1	25.0
TOTAL	70	100.0	26	100.0	17	100.0	3	100.0	5	100.0	2	100.0	4	100.0

LIGHTING EQUIPMENT

	ORIGINAL		ADD1		ADD2		ADD3		TEMP1		TEMP2		TEMP3	
INCANDESCENT	59	25.5	28	20.4	9	11.0	1	3.8	2	5.1	1	4.8	0	0.0
FLUORESCENT	160	69.3	100	73.0	67	81.7	24	92.3	33	84.6	17	81.0	10	71.4
BOTH	5	2.2	1	0.7	1	1.2	0	0.0	0	0.0	0	0.0	0	0.0
OTHER	9	3.9	2	1.5	3	3.7	0	0.0	0	0.0	0	0.0	0	0.0
NO RESPONSE	1	0.4	6	4.4	3	3.7	1	3.8	4	10.3	3	14.3	4	28.6
TOTAL	231	100.0	137	100.0	82	100.0	26	100.0	39	100.0	21	100.0	14	100.0

NUMBER AND PERCENTAGE OF ELEMENTARY SCHOOLS IN WEST TENNESSEE
USING SPECIFIED SOURCES OF WATER SUPPLY

	NUMBER	PERCENTAGE	
WATER UTILITY	206	89.2	*****
PUMP ON PROPERTY	25	10.8	*****
OTHER (WELLS, ETC.)	0	0.0	
NO RESPONSE	0	0.0	
TOTAL	231	100.0	-----

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

NUMBER AND PERCENTAGE OF PRINCIPALS OF ELEMENTARY SCHOOLS IN WEST TENNESSEE
EXPRESSING SPECIFIED FACILITY NEEDS

	NUMBER	PERCENTAGE	
MAINTENANCE	146	63.2	*****
CONSTRUCTION	56	24.2	*****
BOTH	5	2.2	*
NEITHER (INCLUDING NO RESPONSE)	24	10.4	*****
TOTAL	231	100.0	-----

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

PLANT PROFILES: ELEMENTARY SCHOOLS IN WEST TENNESSEE

CRITERION	ADEQUATE		SUBSTANDARD	
	NUMBER	PERCENTAGE	NUMBER	PERCENTAGE
1. ENROLLMENT/CAPACITY RATIO <= 1	179	80.6	43	19.4
2. MEETS NATIONAL SCHOOL SIZE STANDARDS	64	27.8	166	72.2
3. MEETS NATIONAL SITE SIZE STANDARDS	47	21.2	175	78.8
4. ORIGINAL BUILDING 30 YRS OLD OR LESS	162	72.3	62	27.7
5. NO TEMPORARY STRUCTURES	180	77.9	51	22.1
6. NO BASEMENT USED FOR INSTRUCTION	191	82.7	40	17.3
7. NO BUILDING OF WOOD EXCLUSIVELY	219	94.8	12	5.2
8. CENTRAL HEATING IN ORIGINAL BUILDING	199	86.1	32	13.9
9. CENTRAL AIR OR ALL WINDOW UNITS	66	28.6	102	44.2
10. COMPLETE FLUORESCENT LIGHTING	153	66.2	43	18.6
11. USE OF WATER UTILITY	206	89.2	25	10.8
MEETS 7 OF 11 OF ABOVE CRITERIA	159	68.8	4	1.7

MIDDLE SCHOOLS IN WEST TENNESSEE

39 RESPONDENTS

NUMBER AND PERCENTAGE OF MIDDLE SCHOOLS IN WEST TENNESSEE
USING SPECIFIED PROPORTIONS OF SCHOOL PLANT CAPACITY

ENROLLMENT/CAPACITY RATIO	NUMBER	PERCENTAGE	
ABOVE 0.0- 0.5	1	2.6	*
ABOVE 0.5- 0.8	9	23.7	*****
ABOVE 0.8- 1.0	22	57.9	*****
ABOVE 1.0- 1.5	5	13.2	*****
ABOVE 1.5- 2.0	1	2.6	*
ABOVE 2.0-13.0	0	0.0	
TOTAL	39	100.0	-----

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

SCHOOLS THAT EXCEED CAPACITY: 6 15.8%

NUMBER AND PERCENTAGE OF MIDDLE SCHOOLS IN WEST TENNESSEE
HAVING SITES OF SPECIFIED SIZES (IN ACRES)

ACRES	NUMBER	PERCENTAGE	
0- LESS THAN 1	0	0.0	
1- LESS THAN 5	5	13.5	*****
5- LESS THAN 10	10	27.0	*****
10- LESS THAN 20	11	29.7	*****
20- LESS THAN 30	7	18.9	*****
30- LESS THAN 50	3	8.1	****
50- LESS THAN 100	1	2.7	*
TOTAL	37	100.0	-----

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

MEDIAN SCHOOL SITE SIZE IS 11 ACRES

NUMBER AND PERCENTAGE OF MIDDLE SCHOOLS IN WEST TENNESSEE
MEETING SITE SIZE REQUIREMENTS: 4 10.8%

NUMBER AND PERCENTAGE OF BUILDINGS OF MIDDLE SCHOOLS IN WEST TENNESSEE OCCURRING AT SPECIFIED STAGES OF THE SCHOOL LIFE CYCLE

AGE (IN YEARS)	ORIGINAL		ADD1		ADD2		ADD3		TEMP1		TEMP2		TEMP3	
60 OR OVER	3	7.7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
40- LESS THAN 60	5	12.8	0	0.0	1	10.0	0	0.0	0	0.0	0	0.0	0	0.0
20- LESS THAN 40	6	15.4	3	23.1	2	20.0	1	20.0	0	0.0	0	0.0	0	0.0
LESS THAN 20	25	64.1	10	76.9	7	70.0	4	80.0	4	100.0	2	100.0	2	100.0
TOTAL	39	100.0	13	100.0	10	100.0	5	100.0	4	100.0	2	100.0	2	100.0

NUMBER AND PERCENTAGE OF BUILDINGS OF MIDDLE SCHOOLS IN WEST TENNESSEE CONSTRUCTED OR ADDED IN SPECIFIED DECADES, 1840-1973

	ORIGINAL		ADD1		ADD2		ADD3		TEMP1		TEMP2		TEMP3	
AFTER 1840 - 1870	1	2.6	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1870 - 1880	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1880 - 1890	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1890 - 1900	1	2.6	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1900 - 1910	1	2.6	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1910 - 1920	0	0.0	0	0.0	1	10.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1920 - 1930	5	12.8	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1930 - 1940	0	0.0	2	15.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1940 - 1950	4	10.3	1	7.7	2	20.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1950 - 1960	11	28.2	4	30.8	5	50.0	2	40.0	1	25.0	1	50.0	0	0.0
AFTER 1960 - 1970	9	23.1	5	38.5	1	10.0	3	60.0	3	75.0	0	0.0	2	100.0
AFTER 1970 - 1973	7	17.9	1	7.7	1	10.0	0	0.0	0	0.0	1	50.0	0	0.0
TOTAL	39	100.0	13	100.0	10	100.0	5	100.0	4	100.0	2	100.0	2	100.0

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
OLDEST STRUCTURE	1854	1934	1915	1952	1955	1960	1965
MEAN YEAR OF CONSTRUCTION	1951	1955	1954	1959	1963	1965	1965

NUMBER AND PERCENTAGE OF MIDDLE SCHOOLS IN WEST TENNESSEE HAVING SPECIFIED NUMBERS OF ADDITIONAL AND TEMPORARY STRUCTURES

	ADDITIONS		TEMPORARIES	
0	21	53.8	33	84.6
1	12	30.8	5	12.8
2	2	5.1	0	0.0
3	4	10.3	1	2.6
TOTAL	39	100.0	39	100.0

NUMBER AND PERCENTAGE OF MIDDLE SCHOOLS IN WEST TENNESSEE OCCURRING IN SPECIFIED SCHOOL ENROLLMENT CATEGORIES

ENROLLMENT	NUMBER	PERCENTAGE	
0- LESS THAN 350	1	2.6	!*
350- LESS THAN 700	15	38.5	*****
700- LESS THAN 9999	23	59.0	*****
OTAL	39	100.0	-----

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%



NUMBER AND PERCENTAGE OF BUILDINGS OF MIDDLE SCHOOLS IN WEST TENNESSEE
UTILIZING BASEMENTS FOR INSTRUCTION OR OTHER PROGRAMS INVOLVING STUDENTS

ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
8 20.5	4 30.8	3 30.0	2 40.0	1 25.0	0 0.0	0 0.0

SCHOOLS USING BASEMENT OF SOME STRUCTURE FOR INSTRUCTION: 13 33.3%

NUMBER AND PERCENTAGE OF BUILDINGS OF MIDDLE SCHOOLS IN WEST TENNESSEE
HAVING SPECIFIED NUMBERS OF STORIES (EXCLUDING BASEMENT)

NUMBER OF STORIES	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
1 STORY	15 38.5	5 38.5	2 20.0	2 40.0	3 75.0	2 100.0	1 50.0
2 STORIES	12 30.8	6 46.2	5 50.0	2 40.0	0 0.0	0 0.0	0 0.0
3 STORIES	12 30.8	2 15.4	3 30.0	1 20.0	1 25.0	0 0.0	1 50.0
4 STORIES	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
TOTAL	39 100.0	13 100.0	10 100.0	5 100.0	4 100.0	2 100.0	2 100.0

TWO STORIES OR MORE BUILT BEFORE 1920

3 7.7	0 0.0	1 10.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
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ALL WOOD STRUCTURES OF MORE THAN ONE STORY

0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
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NUMBER AND PERCENTAGE OF BUILDINGS OF MIDDLE SCHOOLS IN WEST TENNESSEE
USING SELECTED EXTERIOR CONSTRUCTION MATERIALS

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
BRICK	25 64.1	6 46.2	7 70.0	4 80.0	1 25.0	1 50.0	1 50.0
WOOD	0 0.0	0 0.0	0 0.0	0 0.0	1 25.0	0 0.0	0 0.0
METAL	0 0.0	0 0.0	0 0.0	0 0.0	2 50.0	1 50.0	1 50.0
STONE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
CONCRETE	2 5.1	3 23.1	1 10.0	0 0.0	0 0.0	0 0.0	0 0.0
OTHER	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, METAL	2 5.1	0 0.0	1 10.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, STONE	0 0.0	1 7.7	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, CONCRETE	6 15.4	3 23.1	0 0.0	1 20.0	0 0.0	0 0.0	0 0.0
BRICK, OTHER	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD, METAL	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD, CONCRETE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, METAL, CONCRETE	2 5.1	0 0.0	1 10.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, STONE, CONCRETE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD, METAL, CONCRETE	1 2.6	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
ALL OTHER COMBINATIONS	1 2.6	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
NO RESPONSE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
TOTAL	39 100.0	13 100.0	10 100.0	5 100.0	4 100.0	2 100.0	2 100.0

92

NUMBER AND PERCENTAGE OF BUILDINGS OF MIDDLE SCHOOLS IN WEST TENNESSEE
USING SPECIFIED TYPES OF HEATING, COOLING, AND LIGHTING EQUIPMENT

HEATING EQUIPMENT

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
JUST CENTRAL	35 89.7	11 84.6	9 90.0	5 100.0	3 75.0	1 50.0	1 50.0
JUST SPACE	3 7.7	2 15.4	1 10.0	0 0.0	1 25.0	1 50.0	0 0.0
CENTRAL & SPACE	1 2.6	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	1 50.0
NO RESPONSE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
TOTAL	39 100.0	13 100.0	10 100.0	5 100.0	4 100.0	2 100.0	2 100.0

COOLING EQUIPMENT

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
JUST CENTRAL	17 43.6	3 23.1	2 20.0	0 0.0	1 25.0	0 0.0	1 50.0
JUST WINDOW UNIT	3 7.7	3 23.1	1 10.0	0 0.0	0 0.0	1 50.0	0 0.0
CENTRAL & WINDOW	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
NO MECHANICAL	19 48.7	7 53.8	7 70.0	5 100.0	3 75.0	1 50.0	1 50.0
TOTAL	39 100.0	13 100.0	10 100.0	5 100.0	4 100.0	2 100.0	2 100.0

WINDOW UNIT COOLING

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
ALL ROOMS	1 33.3	1 33.3	1 100.0	0 0.0	0 0.0	0 0.0	0 0.0
SELECTED ROOMS	2 66.7	2 66.7	0 0.0	0 0.0	0 0.0	1 100.0	0 0.0
NO RESPONSE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
TOTAL	3 100.0	3 100.0	1 100.0	0 100.0	0 100.0	1 100.0	0 100.0

LIGHTING EQUIPMENT

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
INCANDESCENT	6 15.4	3 23.1	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
FLUORESCENT	31 79.5	8 61.5	8 80.0	4 80.0	4 100.0	2 100.0	2 100.0
BOTH	2 5.1	1 7.7	2 20.0	1 20.0	0 0.0	0 0.0	0 0.0
OTHER	0 0.0	1 7.7	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
NO RESPONSE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
TOTAL	39 100.0	13 100.0	10 100.0	5 100.0	4 100.0	2 100.0	2 100.0

NUMBER AND PERCENTAGE OF MIDDLE SCHOOLS IN WEST TENNESSEE
USING SPECIFIED SOURCES OF WATER SUPPLY

	NUMBER	PERCENTAGE	
WATER UTILITY	39	100.0	*****
PUMP ON PROPERTY	0	0.0	
CTHER (WELLS, ETC.)	0	0.0	
NO RESPONSE	0	0.0	
TOTAL	39	100.0	-----

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

NUMBER AND PERCENTAGE OF PRINCIPALS OF MIDDLE SCHOOLS IN WEST TENNESSEE
EXPRESSING SPECIFIED FACILITY NEEDS

	NUMBER	PERCENTAGE	
MAINTENANCE	20	51.3	*****
CCNSTRUCTION	12	30.8	*****
BOTH	1	2.6	*
NEITHER (INCLUDING NO RESPONSE)	6	15.4	*****
TOTAL	39	100.0	-----

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

PLANT PROFILES: MIDDLE SCHOOLS IN WEST TENNESSEE

CRITERION	ADEQUATE		SUBSTANDARD	
	NUMBER	PERCENTAGE	NUMBER	PERCENTAGE
1. ENROLLMENT/CAPACITY RATIO <= 1	32	84.2	6	15.8
2. MEETS NATIONAL SCHCOL SIZE STANDARDS	15	38.5	24	61.5
3. MEETS NATIONAL SITE SIZE STANDARDS	4	10.8	33	89.2
4. ORIGINAL BUILDING 30 YRS OLD OR LESS	29	74.4	10	25.6
5. NO TEMPORARY STRUCTURES	33	84.6	6	15.4
6. NO BASEMENT USED FOR INSTRUCTION	26	66.7	13	33.3
7. NO BUILDING OF WOOD EXCLUSIVELY	38	97.4	1	2.6
8. CENTRAL HEATING IN ORIGINAL BUILDING	36	92.3	3	7.7
9. CENTRAL AIR OR ALL WINDOW UNITS	18	46.2	14	35.9
10. COMPLETE FLUORESCENT LIGHTING	31	79.5	5	12.8
11. USE OF WATER UTILITY	39	100.0	0	0.0
12. MEETS 7 OF 11 OF ABOVE CRITERIA	30	76.9	1	2.6

94



DATA DISPLAY 3.3

SECONDARY SCHOOLS IN WEST TENNESSEE

59 RESPONDENTS

NUMBER AND PERCENTAGE OF SECONDARY SCHOOLS IN WEST TENNESSEE
USING SPECIFIED PROPORTIONS OF SCHOOL PLANT CAPACITY

ENROLLMENT/CAPACITY		NUMBER	PERCENTAGE	
RATIO				
ABOVE	0.0- 0.5	1	1.8	*
ABOVE	0.5- 0.8	9	16.4	*****
ABOVE	0.8- 1.0	26	47.3	*****
ABOVE	1.0- 1.5	19	34.5	*****
ABOVE	1.5- 2.0	0	0.0	
ABOVE	2.0-13.0	0	0.0	
TOTAL		55	100.0	-----

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

SCHOOLS THAT EXCEED CAPACITY: 19 34.5%

NUMBER AND PERCENTAGE OF SECONDARY SCHOOLS IN WEST TENNESSEE
HAVING SITES OF SPECIFIED SIZES (IN ACRES)

ACRES	NUMBER	PERCENTAGE	
0- LESS THAN 1	0	0.0	
1- LESS THAN 5	6	10.7	*****
5- LESS THAN 10	7	12.5	*****
10- LESS THAN 20	20	35.7	*****
20- LESS THAN 30	15	26.8	*****
30- LESS THAN 50	4	7.1	***
50- LESS THAN 100	4	7.1	***
TOTAL	56	100.0	-----

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

MEDIAN SCHOOL SITE SIZE IS 15 ACRES

NUMBER AND PERCENTAGE OF SECONDARY SCHOOLS IN WEST TENNESSEE
MEETING SITE SIZE REQUIREMENTS: 6 10.7%

NUMBER AND PERCENTAGE OF BUILDINGS OF SECONDARY SCHOOLS IN WEST TENNESSEE OCCURRING AT SPECIFIED STAGES OF THE SCHOOL LIFE CYCLE

AGE (IN YEARS)	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
60 OR OVER	2 3.4	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
40- LESS THAN 60	14 24.1	2 5.7	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
20- LESS THAN 40	11 19.0	8 22.9	6 26.1	2 14.3	1 10.0	2 40.0	0 0.0
LESS THAN 20	31 53.4	25 71.4	17 73.9	12 85.7	9 90.0	3 60.0	2 100.0
TOTAL	58 100.0	35 100.0	23 100.0	14 100.0	10 100.0	5 100.0	2 100.0

NUMBER AND PERCENTAGE OF BUILDINGS OF SECONDARY SCHOOLS IN WEST TENNESSEE CONSTRUCTED OR ADDED IN SPECIFIED DECADES, 1840-1973

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
AFTER 1840 - 1870	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1870 - 1880	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1880 - 1890	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1890 - 1900	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1900 - 1910	2 3.4	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1910 - 1920	3 5.2	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1920 - 1930	8 13.8	1 2.9	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1930 - 1940	6 10.3	2 5.7	1 4.3	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1940 - 1950	5 8.6	3 8.6	3 13.0	1 7.1	0 0.0	0 0.0	0 0.0
AFTER 1950 - 1960	12 20.7	11 31.4	7 30.4	3 21.4	3 30.0	2 40.0	1 50.0
AFTER 1960 - 1970	16 27.6	14 40.0	10 43.5	10 71.4	3 30.0	1 20.0	1 50.0
AFTER 1970 - 1973	6 10.3	4 11.4	2 8.7	0 0.0	4 40.0	2 40.0	0 0.0
TOTAL	58 100.0	35 100.0	23 100.0	14 100.0	10 100.0	5 100.0	2 100.0

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
OLDEST STRUCTURE	1909	1928	1938	1950	1952	1951	1955
MEAN YEAR OF CONSTRUCTION	1950	1958	1958	1962	1966	1963	1962

NUMBER AND PERCENTAGE OF SECONDARY SCHOOLS IN WEST TENNESSEE HAVING SPECIFIED NUMBERS OF ADDITIONAL AND TEMPORARY STRUCTURES

	ADDITIONS		TEMPORARIES	
0	22	37.3	49	83.1
1	15	25.4	5	8.5
2	9	15.3	3	5.1
3	13	22.0	2	3.4
TOTAL	59	100.0	59	100.0

NUMBER AND PERCENTAGE OF SECONDARY SCHOOLS IN WEST TENNESSEE OCCURRING IN SPECIFIED SCHOOL ENROLLMENT CATEGORIES

ENROLLMENT	NUMBER	PERCENTAGE	
0- LESS THAN 350	5	8.5	****
350- LESS THAN 700	17	28.8	*****
700- LESS THAN 9999	37	62.7	*****
TOTAL	59	100.0	-----

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

NUMBER AND PERCENTAGE OF BUILDINGS OF SECONDARY SCHOOLS IN WEST TENNESSEE UTILIZING BASEMENTS FOR INSTRUCTION OR OTHER PROGRAMS INVOLVING STUDENTS.

ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
16 27.1	2 5.7	2 8.7	1 7.1	0 0.0	0 0.0	0 0.0

SCHOOLS USING BASEMENT OF SOME STRUCTURE FOR INSTRUCTION: 17 28.8%

NUMBER AND PERCENTAGE OF BUILDINGS OF SECONDARY SCHOOLS IN WEST TENNESSEE HAVING SPECIFIED NUMBERS OF STORIES (EXCLUDING BASEMENT)

NUMBER OF STORIES	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
1 STORY	23 39.0	17 48.6	10 43.5	8 57.1	8 80.0	2 40.0	1 50.0
2 STORIES	23 39.0	13 37.1	10 43.5	4 28.6	2 20.0	3 60.0	1 50.0
3 STORIES	13 22.0	5 14.3	3 13.0	2 14.3	0 0.0	0 0.0	0 0.0
4 STORIES	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
TOTAL	59 100.0	35 100.0	23 100.0	14 100.0	10 100.0	5 100.0	2 100.0

TWO STORIES OR MORE BUILT BEFORE 1920

6 10.2	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
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ALL WOOD STRUCTURES OF MORE THAN ONE STORY

0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
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NUMBER AND PERCENTAGE OF BUILDINGS OF SECONDARY SCHOOLS IN WEST TENNESSEE USING SELECTED EXTERIOR CONSTRUCTION MATERIALS

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
BRICK	35 59.3	22 62.9	14 60.9	9 64.3	3 30.0	3 60.0	1 50.0
WOOD	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
METAL	0 0.0	0 0.0	1 4.3	0 0.0	3 30.0	0 0.0	0 0.0
STONE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
CONCRETE	1 1.7	1 2.9	0 0.0	1 7.1	0 0.0	0 0.0	0 0.0
OTHER	0 0.0	1 2.9	1 4.3	0 0.0	1 10.0	0 0.0	0 0.0
BRICK, WOOD	1 1.7	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, METAL	3 5.1	0 0.0	0 0.0	1 7.1	0 0.0	0 0.0	0 0.0
BRICK, STONE	1 1.7	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, CONCRETE	8 13.6	5 14.3	5 21.7	2 14.3	1 10.0	1 20.0	1 50.0
BRICK, OTHER	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD, METAL	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD, CONCRETE	1 1.7	1 2.9	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, METAL, CONCRETE	8 13.6	4 11.4	2 8.7	1 7.1	1 10.0	1 20.0	0 0.0
BRICK, STONE, CONCRETE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD, METAL, CONCRETE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
ALL OTHER COMBINATIONS	0 0.0	0 0.0	0 0.0	0 0.0	1 10.0	0 0.0	0 0.0
NO RESPONSE	1 1.7	1 2.9	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
TOTAL	59 100.0	35 100.0	23 100.0	14 100.0	10 100.0	5 100.0	2 100.0

NUMBER AND PERCENTAGE OF BUILDINGS OF SECONDARY SCHOOLS IN WEST TENNESSEE
USING SPECIFIED TYPES OF HEATING, COOLING, AND LIGHTING EQUIPMENT

HEATING EQUIPMENT

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
JUST CENTRAL	50 84.7	26 74.3	22 95.7	11 78.6	5 50.0	5 100.0	2 100.0
JUST SPACE	2 3.4	3 8.6	0 0.0	1 7.1	3 30.0	0 0.0	0 0.0
CENTRAL & SPACE	4 6.8	4 11.4	0 0.0	0 0.0	2 20.0	0 0.0	0 0.0
NO RESPONSE	3 5.1	2 5.7	1 4.3	2 14.3	0 0.0	0 0.0	0 0.0
TOTAL	59 100.0	35 100.0	23 100.0	14 100.0	10 100.0	5 100.0	2 100.0

COOLING EQUIPMENT

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
JUST CENTRAL	19 32.2	8 22.9	6 26.1	6 42.9	5 50.0	2 40.0	1 50.0
JUST WINDOW UNIT	13 22.0	3 8.6	2 8.7	2 14.3	2 20.0	0 0.0	1 50.0
CENTRAL & WINDOW	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
NO MECHANICAL	27 45.8	24 68.6	15 65.2	6 42.9	3 30.0	3 60.0	0 0.0
TOTAL	59 100.0	35 100.0	23 100.0	14 100.0	10 100.0	5 100.0	2 100.0

WINDOW UNIT COOLING

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
ALL ROOMS	4 30.8	3 100.0	1 50.0	1 50.0	1 50.0	0 0.0	0 0.0
SELECTED ROOMS	9 69.2	0 0.0	1 50.0	0 0.0	1 50.0	0 0.0	1 100.0
NC RESPONSE	0 0.0	0 0.0	0 0.0	1 50.0	0 0.0	0 0.0	0 0.0
TOTAL	13 100.0	3 100.0	2 100.0	2 100.0	2 100.0	0 100.0	1 100.0

LIGHTING EQUIPMENT

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
INCANDESCENT	11 18.6	8 22.9	3 13.0	4 28.6	1 10.0	1 20.0	0 0.0
FLUORESCENT	46 79.0	26 74.3	19 82.6	9 64.3	8 80.0	3 60.0	2 100.0
BOTH	1 1.7	0 0.0	1 4.3	0 0.0	1 10.0	0 0.0	0 0.0
OTHER	0 0.0	1 2.9	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
NO RESPONSE	1 1.7	0 0.0	0 0.0	1 7.1	0 0.0	1 20.0	0 0.0
TOTAL	59 100.0	35 100.0	23 100.0	14 100.0	10 100.0	5 100.0	2 100.0

NUMBER AND PERCENTAGE OF SECONDARY SCHOOLS IN WEST TENNESSEE
USING SPECIFIED SOURCES OF WATER SUPPLY

	NUMBER	PERCENTAGE	
WATER UTILITY	58	98.3	*****
PUMP ON PROPERTY	1	1.7	*
OTHER (WELLS, ETC.)	0	0.0	
NO RESPONSE	0	0.0	
TOTAL	59	100.0	-----

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

NUMBER AND PERCENTAGE OF PRINCIPALS OF SECONDARY SCHOOLS IN WEST TENNESSEE
EXPRESSING SPECIFIED FACILITY NEEDS

	NUMBER	PERCENTAGE	
MAINTENANCE	22	37.3	*****
CONSTRUCTION	28	47.5	*****
BOTH	1	1.7	*
NEITHER (INCLUDING NO RESPONSE)	8	13.6	*****
TOTAL	59	100.0	-----

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

PLANT PROFILES: SECONDARY SCHOOLS IN WEST TENNESSEE

CRITERION	ADEQUATE		SUBSTANDARD	
	NUMBER	PERCENTAGE	NUMBER	PERCENTAGE
1. ENROLLMENT/CAPACITY RATIO <= 1	36	65.5	19	34.5
2. MEETS NATIONAL SCHOOL SIZE STANDARDS	29	49.2	30	50.8
3. MEETS NATIONAL SITE SIZE STANDARDS	6	10.7	50	89.3
4. ORIGINAL BUILDING 30 YRS OLD OR LESS	39	67.2	19	32.8
5. NO TEMPORARY STRUCTURES	49	83.1	10	16.9
6. NO BASEMENT USED FOR INSTRUCTION	42	71.2	17	28.8
7. NO BUILDING OF WOOD EXCLUSIVELY	59	100.0	0	0.0
8. CENTRAL HEATING IN ORIGINAL BUILDING	54	91.5	5	8.5
9. CENTRAL AIR OR ALL WINDOW UNITS	22	37.3	16	27.1
10. COMPLETE FLUORESCENT LIGHTING	45	76.3	8	13.6
11. USE OF WATER UTILITY	58	98.3	1	1.7
MEETS 7 OF 11 OF ABOVE CRITERIA	41	69.5	0	0.0

CATA DISPLAY 3.4

COMBINED SCHOOLS IN WEST TENNESSEE

28 RESPONDENTS

NUMBER AND PERCENTAGE OF COMBINED SCHOOLS IN WEST TENNESSEE
USING SPECIFIED PROPORTION OF SCHOOL PLANT CAPACITY

ENROLLMENT/CAPACITY RATIO	NUMBER	PERCENTAGE	
ABOVE 0.0- 0.5	2	7.7	****
ABOVE 0.5- 0.8	3	11.5	*****
ABOVE 0.8- 1.0	12	46.2	*****
ABOVE 1.0- 1.5	9	34.6	*****
ABOVE 1.5- 2.0	0	0.0	
ABOVE 2.0-13.0	0	0.0	
TOTAL	26	100.0	-----

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

SCHOOLS THAT EXCEED CAPACITY: 9 34.6%

NUMBER AND PERCENTAGE OF COMBINED SCHOOLS IN WEST TENNESSEE
HAVING SITES OF SPECIFIED SIZES (IN ACRES)

ACRES	NUMBER	PERCENTAGE	
0- LESS THAN 1	0	0.0	
1- LESS THAN 5	7	25.9	*****
5- LESS THAN 10	6	22.2	*****
10- LESS THAN 20	12	44.4	*****
20- LESS THAN 30	1	3.7	**
30- LESS THAN 50	1	3.7	**
50- LESS THAN 100	0	0.0	
TOTAL	27	100.0	-----

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

MEDIAN SCHOOL SITE SIZE IS 10 ACRES

NUMBER AND PERCENTAGE OF COMBINED SCHOOLS IN WEST TENNESSEE
MEETING SITE SIZE REQUIREMENTS: 0 0.0%

NUMBER AND PERCENTAGE OF BUILDINGS OF COMBINED SCHOOLS IN WEST TENNESSEE OCCURRING AT SPECIFIED STAGES OF THE SCHOOL LIFE CYCLE

AGE (IN YEARS)	ORIGINAL		ADD1		ADD2		ADD3		TEMP1		TEMP2		TEMP3	
60 OR OVER	5	18.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
40- LESS THAN 60	11	40.7	4	19.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
20- LESS THAN 40	11	40.7	7	33.3	8	44.4	2	16.7	3	37.5	1	33.3	0	0.0
LESS THAN 20	0	0.0	10	47.6	10	55.6	10	83.3	5	62.5	2	66.7	1	100.0
TOTAL	27	100.0	21	100.0	18	100.0	12	100.0	8	100.0	3	100.0	1	100.0

NUMBER AND PERCENTAGE OF BUILDINGS OF COMBINED SCHOOLS IN WEST TENNESSEE CONSTRUCTED OR ADDED IN SPECIFIED DECADES, 1840-1973

	ORIGINAL		ADD1		ADD2		ADD3		TEMP1		TEMP2		TEMP3	
AFTER 1840 - 1870	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1870 - 1900	1	3.7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1880 - 1890	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1890 - 1900	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1900 - 1910	2	7.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1910 - 1920	3	11.1	1	4.8	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1920 - 1930	10	37.0	3	14.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1930 - 1940	3	11.1	1	4.8	1	5.6	0	0.0	1	12.5	0	0.0	0	0.0
AFTER 1940 - 1950	7	25.9	4	19.0	4	22.2	1	8.3	1	12.5	1	33.3	0	0.0
AFTER 1950 - 1960	1	3.7	8	38.1	7	38.9	2	16.7	1	12.5	1	33.3	0	0.0
AFTER 1960 - 1970	0	0.0	4	19.0	5	27.8	5	41.7	0	0.0	0	0.0	0	0.0
AFTER 1970 - 1973	0	0.0	0	0.0	1	5.6	4	33.3	5	62.5	1	33.3	1	100.0
TOTAL	27	100.0	21	100.0	18	100.0	12	100.0	8	100.0	3	100.0	1	100.0

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
OLDEST STRUCTURE	1880	1920	1938	1947	1936	1948	1971
MEAN YEAR OF CONSTRUCTION	1929	1948	1956	1964	1961	1959	1971

NUMBER AND PERCENTAGE OF COMBINED SCHOOLS IN WEST TENNESSEE HAVING SPECIFIED NUMBERS OF ADDITIONAL AND TEMPORARY STRUCTURES

	ADDITIONS		TEMPORARIES	
0	4	14.3	20	71.4
1	8	28.6	5	17.9
2	5	17.9	2	7.1
3	11	39.3	1	3.6
TOTAL	28	100.0	28	100.0

NUMBER AND PERCENTAGE OF COMBINED SCHOOLS IN WEST TENNESSEE OCCURRING IN SPECIFIED SCHOOL ENROLLMENT CATEGORIES

ENROLLMENT	NUMBER	PERCENTAGE	
0- LESS THAN 350	6	21.4	*****
350- LESS THAN 700	19	67.9	*****
700- LESS THAN 9999	3	10.7	*****
TOTAL	28	100.0	-----
			10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

NUMBER AND PERCENTAGE OF BUILDINGS OF COMBINED SCHOOLS IN WEST TENNESSEE
UTILIZING BASEMENTS FOR INSTRUCTION OR OTHER PROGRAMS INVOLVING STUDENTS

ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
9 32.1	1 4.8	1 5.6	0 0.0	1 12.5	0 0.0	0 0.0

SCHOOLS USING BASEMENT OF SOME STRUCTURE FOR INSTRUCTION: 10 35.7%

NUMBER AND PERCENTAGE OF BUILDINGS OF COMBINED SCHOOLS IN WEST TENNESSEE
HAVING SPECIFIED NUMBERS OF STORIES (EXCLUDING BASEMENT)

NUMBER OF STORIES	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
1 STORY	18 64.3	17 81.0	14 77.8	11 91.7	8 100.0	3 100.0	1 100.0
2 STORIES	8 28.6	3 14.3	3 16.7	1 8.3	0 0.0	0 0.0	0 0.0
3 STORIES	2 7.1	1 4.8	1 5.6	0 0.0	0 0.0	0 0.0	0 0.0
4 STORIES	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
TOTAL	28 100.0	21 100.0	18 100.0	12 100.0	8 100.0	3 100.0	1 100.0

TWO STORIES OR MORE BUILT BEFORE 1920

4 14.3	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
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ALL WOOD STRUCTURES OF MORE THAN ONE STORY

0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
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NUMBER AND PERCENTAGE OF BUILDINGS OF COMBINED SCHOOLS IN WEST TENNESSEE
USING SELECTED EXTERIOR CONSTRUCTION MATERIALS

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
BRICK	25 89.3	16 76.2	14 77.8	8 66.7	2 25.0	2 66.7	0 0.0
WOOD	0 0.0	1 4.8	1 5.6	0 0.0	1 12.5	0 0.0	0 0.0
METAL	0 0.0	1 4.8	0 0.0	2 16.7	4 50.0	1 33.3	1 100.0
STONE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
CONCRETE	1 3.6	2 9.5	1 5.6	1 8.3	0 0.0	0 0.0	0 0.0
OTHER	0 0.0	0 0.0	0 0.0	1 8.3	0 0.0	0 0.0	0 0.0
BRICK, WOOD	1 3.6	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, METAL	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, STONE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, CONCRETE	0 0.0	1 4.8	1 5.6	0 0.0	1 12.5	0 0.0	0 0.0
BRICK, OTHER	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD, METAL	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD, CONCRETE	0 0.0	0 0.0	1 5.6	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, METAL, CONCRETE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, STONE, CONCRETE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD, METAL, CONCRETE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
ALL OTHER COMBINATIONS	1 3.6	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
NC RESPONSE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
TOTAL	28 100.0	21 100.0	18 100.0	12 100.0	8 100.0	3 100.0	1 100.0

NUMBER AND PERCENTAGE OF BUILDINGS OF COMBINED SCHOOLS IN WEST TENNESSEE
USING SPECIFIED TYPES OF HEATING, COOLING, AND LIGHTING EQUIPMENT

HEATING EQUIPMENT

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
JUST CENTRAL	25 89.3	16 76.2	15 83.3	8 66.7	4 50.0	1 33.3	0 0.0
JUST SPACE	3 10.7	4 19.0	2 11.1	3 25.0	3 37.5	1 33.3	0 0.0
CENTRAL & SPACE	0 0.0	0 0.0	0 0.0	0 0.0	1 12.5	1 33.3	1 100.0
NO RESPONSE	0 0.0	1 4.8	1 5.6	1 8.3	0 0.0	0 0.0	0 0.0
TOTAL	28 100.0	21 100.0	18 100.0	12 100.0	8 100.0	3 100.0	1 100.0

COOLING EQUIPMENT

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
JUST CENTRAL	1 3.6	2 9.5	4 22.2	3 25.0	4 50.0	1 33.3	1 100.0
JUST WINDOW UNIT	14 50.0	8 38.1	9 50.0	4 33.3	0 0.0	1 33.3	0 0.0
CENTRAL & WINDOW	0 0.0	1 4.8	0 0.0	1 8.3	0 0.0	0 0.0	0 0.0
NO MECHANICAL	13 46.4	10 47.6	5 27.8	4 33.3	4 50.0	1 33.3	0 0.0
TOTAL	28 100.0	21 100.0	18 100.0	12 100.0	8 100.0	3 100.0	1 100.0

WINDOW UNIT COOLING

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
ALL ROOMS	6 42.9	6 66.7	5 55.6	3 60.0	0 0.0	1 100.0	0 0.0
SELECTED ROOMS	7 50.0	2 22.2	2 22.2	1 20.0	0 0.0	0 0.0	0 0.0
NO RESPONSE	1 7.1	1 11.1	2 22.2	1 20.0	0 0.0	0 0.0	0 0.0
TOTAL	14 100.0	9 100.0	9 100.0	5 100.0	0 100.0	1 100.0	0 100.0

LIGHTING EQUIPMENT

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
INCANDESCENT	14 50.0	10 47.6	9 50.0	4 33.3	2 25.0	1 33.3	0 0.0
FLUORESCENT	12 42.9	9 42.9	7 38.9	7 58.3	6 75.0	2 66.7	1 100.0
BOTH	1 3.6	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
OTHER	1 3.6	2 9.5	2 11.1	0 0.0	0 0.0	0 0.0	0 0.0
NO RESPONSE	0 0.0	0 0.0	0 0.0	1 8.3	0 0.0	0 0.0	0 0.0
TOTAL	28 100.0	21 100.0	18 100.0	12 100.0	8 100.0	3 100.0	1 100.0

NUMBER AND PERCENTAGE OF COMBINED SCHOOLS IN WEST TENNESSEE
USING SPECIFIED SOURCES OF WATER SUPPLY.

	NUMBER	PERCENTAGE	
WATER UTILITY	24	85.7	*****
PUMP ON PROPERTY	3	10.7	*****
OTHER (WELLS, ETC.)	1	3.6	**
NO RESPONSE	0	0.0	
TOTAL	28	100.0	-----
			10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

NUMBER AND PERCENTAGE OF PRINCIPALS OF COMBINED SCHOOLS IN WEST TENNESSEE
EXPRESSING SPECIFIED FACILITY NEEDS

	NUMBER	PERCENTAGE	
MAINTENANCE	22	78.6	*****
CONSTRUCTION	5	17.9	*****
BOTH	0	0.0	
NEITHER (INCLUDING NO RESPONSE)	1	3.6	**
TOTAL	28	100.0	-----
			10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

PLANT PROFILES: COMBINED SCHOOLS IN WEST TENNESSEE

CRITERION	ADEQUATE		SUBSTANDARD	
	NUMBER	PERCENTAGE	NUMBER	PERCENTAGE
1. ENROLLMENT/CAPACITY RATIO <= 1	17	60.4	9	31.6
2. MEETS NATIONAL SCHOOL SIZE STANDARDS	21	75.0	7	25.0
3. MEETS NATIONAL SITE SIZE STANDARDS	0	0.0	27	100.0
4. ORIGINAL BUILDING 30 YRS OLD OR LESS	6	21.4	21	75.0
5. NO TEMPORARY STRUCTURES	20	71.4	8	28.6
6. NO BASEMENT USED FOR INSTRUCTION	18	64.3	10	35.7
7. NO BUILDING OF WOOD EXCLUSIVELY	26	92.9	2	7.1
8. CENTRAL HEATING IN ORIGINAL BUILDING	25	89.3	3	10.7
9. CENTRAL AIR OR ALL WINDOW UNITS	8	28.6	9	32.1
10. COMPLETE FLUORESCENT LIGHTING	9	32.1	7	25.0
11. USE OF WATER UTILITY	24	85.7	4	14.3
12. MEETS 7 OF 11 OF ABOVE CRITERIA	12	42.9	2	7.1

DATA DISPLAY 3.5

ELEMENTARY SCHOOLS IN MIDDLE TENNESSEE

311 RESPONDENTS

NUMBER AND PERCENTAGE OF ELEMENTARY SCHOOLS IN MIDDLE TENNESSEE
USING SPECIFIED PROPORTIONS OF SCHOOL PLANT CAPACITY

ENROLLMENT/CAPACITY		NUMBER	PERCENTAGE	
	RATIO			
ABOVE	0.0- 0.5	15	4.9	**
ABOVE	0.5- 0.8	73	24.0	*****
ABOVE	0.8- 1.0	131	43.1	*****
ABOVE	1.0- 1.5	80	26.3	*****
ABOVE	1.5- 2.0	5	1.6	*
ABOVE	2.0-13.0	0	0.0	
TOTAL		304	100.0	

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

SCHOOLS THAT EXCEED CAPACITY: 85 28.0%

NUMBER AND PERCENTAGE OF ELEMENTARY SCHOOLS IN MIDDLE TENNESSEE
HAVING SITES OF SPECIFIED SIZES (IN ACRES)

ACRES		NUMBER	PERCENTAGE	
0-	LESS THAN 1	0	0.0	
1-	LESS THAN 5	67	22.3	*****
5-	LESS THAN 10	120	40.0	*****
10-	LESS THAN 20	88	29.3	*****
20-	LESS THAN 30	20	6.7	***
30-	LESS THAN 50	4	1.3	
50-	LESS THAN 100	1	0.3	
TOTAL		300	100.0	

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

MEDIAN SCHOOL SITE SIZE IS 7 ACRES

NUMBER AND PERCENTAGE OF ELEMENTARY SCHOOLS IN MIDDLE TENNESSEE
MEETING SITE SIZE REQUIREMENTS: 51 17.0%

NUMBER AND PERCENTAGE OF BUILDINGS OF ELEMENTARY SCHOOLS IN MIDDLE TENNESSEE OCCURRING AT SPECIFIED STAGES OF THE SCHOOL LIFE CYCLE

AGE (IN YEARS)	ORIGINAL		ADD1		ADD2		ADD3		TEMP1		TEMP2		TEMP3	
60 OR OVER	12	4.0	2	1.2	1	0.9	0	0.0	0	0.0	0	0.0	0	0.0
40- LESS THAN 60	37	12.3	4	2.4	3	2.6	0	0.0	1	1.9	0	0.0	0	0.0
20- LESS THAN 40	129	42.9	60	36.6	18	15.7	8	17.4	1	1.9	0	0.0	0	0.0
LESS THAN 20	123	40.9	98	59.8	93	80.9	38	82.6	52	96.3	26	100.0	16	100.0
TOTAL	301	100.0	164	100.0	115	100.0	46	100.0	54	100.0	26	100.0	16	100.0

NUMBER AND PERCENTAGE OF BUILDINGS OF ELEMENTARY SCHOOLS IN MIDDLE TENNESSEE CONSTRUCTED OR ADDED IN SPECIFIED DECADES, 1840-1973

	ORIGINAL		ADD1		ADD2		ADD3		TEMP1		TEMP2		TEMP3	
AFTER 1840 - 1870	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1870 - 1880	1	0.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1880 - 1890	3	1.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1890 - 1900	1	0.3	1	0.6	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1900 - 1910	4	1.3	1	0.6	1	0.9	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1910 - 1920	11	3.7	2	1.2	0	0.0	0	0.0	1	1.9	0	0.0	0	0.0
AFTER 1920 - 1930	23	7.6	2	1.2	3	2.6	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1930 - 1940	43	14.3	8	4.9	3	2.6	2	4.3	0	0.0	0	0.0	0	0.0
AFTER 1940 - 1950	58	19.3	25	15.2	7	6.1	3	6.5	0	0.0	0	0.0	0	0.0
AFTER 1950 - 1960	105	34.9	70	42.7	35	30.4	8	17.4	3	5.6	1	3.8	0	0.0
AFTER 1960 - 1970	46	15.3	51	31.1	55	47.8	29	63.0	33	61.1	14	53.8	11	69.8
AFTER 1970 - 1973	6	2.0	4	2.4	11	9.6	4	8.7	17	31.5	11	42.3	5	31.3
TOTAL	301	100.0	164	100.0	115	100.0	46	100.0	54	100.0	26	100.0	16	100.0

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
OLDEST STRUCTURE	1878	1898	1910	1935	1917	1958	1963
MEAN YEAR OF CONSTRUCTION	1947	1955	1960	1962	1967	1969	1968

NUMBER AND PERCENTAGE OF ELEMENTARY SCHOOLS IN MIDDLE TENNESSEE HAVING SPECIFIED NUMBERS OF ADDITIONAL AND TEMPORARY STRUCTURES

	ADDITIONS		TEMPORARIES	
0	108	34.7	241	77.5
1	112	36.0	50	16.1
2	60	19.3	14	4.5
3	31	10.0	6	1.9
TOTAL	311	100.0	311	100.0

NUMBER AND PERCENTAGE OF ELEMENTARY SCHOOLS IN MIDDLE TENNESSEE OCCURRING IN SPECIFIED SCHOOL ENROLLMENT CATEGORIES

ENROLLMENT	NUMBER	PERCENTAGE	
0- LESS THAN 350	143	46.6	*****
350- LESS THAN 700	133	43.3	*****
700- LESS THAN 9999	31	10.1	*****
TOTAL	307	100.0	-----

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

NUMBER AND PERCENTAGE OF BUILDINGS OF ELEMENTARY SCHOOLS IN MIDDLE TENNESSEE
UTILIZING BASEMENTS FOR INSTRUCTION OR OTHER PROGRAMS INVOLVING STUDENTS

ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
51 16.4	9 5.5	9 7.8	4 8.7	0 0.0	0 0.0	0 0.0

SCHOOLS USING BASEMENT OF SOME STRUCTURE FOR INSTRUCTION: 66 21.2%

NUMBER AND PERCENTAGE OF BUILDINGS OF ELEMENTARY SCHOOLS IN MIDDLE TENNESSEE
HAVING SPECIFIED NUMBERS OF STORIES (EXCLUDING BASEMENT)

NUMBER OF STORIES	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
1 STORY	246 79.1	132 80.5	98 85.2	40 87.0	52 96.3	26 100.0	16 100.0
2 STORIES	55 17.7	32 19.5	16 13.9	6 13.0	2 3.7	0 0.0	0 0.0
3 STORIES	9 2.9	0 0.0	1 0.9	0 0.0	0 0.0	0 0.0	0 0.0
4 STORIES	1 0.3	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
TOTAL	311 100.0	164 100.0	115 100.0	46 100.0	54 100.0	26 100.0	16 100.0

TWO STORIES OR MORE BUILT BEFORE 1920

16 5.1	3 1.8	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
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ALL WOOD STRUCTURES OF MORE THAN ONE STORY

0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
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NUMBER AND PERCENTAGE OF BUILDINGS OF ELEMENTARY SCHOOLS IN MIDDLE TENNESSEE
USING SELECTED EXTERIOR CONSTRUCTION MATERIALS

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
BRICK	243 78.1	133 81.1	86 74.8	37 80.4	2 3.7	0 0.0	0 0.0
WOOD	7 2.3	3 1.8	1 0.9	0 0.0	7 13.0	3 11.5	2 12.5
METAL	2 0.6	0 0.0	2 1.7	1 2.2	34 63.0	20 76.9	11 68.8
STONE	5 1.6	1 0.6	1 0.9	0 0.0	0 0.0	0 0.0	0 0.0
CONCRETE	6 1.9	5 3.0	5 4.3	2 4.3	1 1.9	0 0.0	0 0.0
OTHER	1 0.3	1 0.6	0 0.0	1 2.2	1 1.9	1 3.8	1 6.3
BRICK, WOOD	4 1.3	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, METAL	4 1.3	1 0.6	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, STONE	2 0.6	1 0.6	2 1.7	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, CONCRETE	9 2.9	5 3.0	1 0.9	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, OTHER	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD, METAL	2 0.6	1 0.6	1 0.9	1 2.2	0 0.0	0 0.0	0 0.0
BRICK, WOOD, CONCRETE	3 1.0	3 1.8	2 1.7	1 2.2	0 0.0	0 0.0	0 0.0
BRICK, METAL, CONCRETE	7 2.3	2 1.2	1 0.9	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, STONE, CONCRETE	1 0.3	1 0.6	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD, METAL, CONCRETE	2 0.6	2 1.2	1 0.9	0 0.0	0 0.0	0 0.0	0 0.0
ALL OTHER COMBINATIONS	12 3.9	3 1.8	3 2.6	1 2.2	5 9.3	2 7.7	1 6.3
NO RESPONSE	1 0.3	2 1.2	9 7.8	2 4.3	4 7.4	0 0.0	1 6.3
TOTAL	311 100.0	164 100.0	115 100.0	46 100.0	54 100.0	26 100.0	16 100.0

NUMBER AND PERCENTAGE OF BUILDINGS OF ELEMENTARY SCHOOLS IN MIDDLE TENNESSEE
USING SPECIFIED TYPES OF HEATING, COOLING, AND LIGHTING EQUIPMENT

HEATING EQUIPMENT

	ORIGINAL		ADD1		ADD2		ADD3		TEMP1		TEMP2		TEMP3	
JUST CENTRAL	258	93.0	131	79.9	87	75.7	33	71.7	20	37.0	12	46.2	5	31.3
JUST SPACE	39	12.5	21	12.8	13	11.3	7	15.2	25	46.3	11	42.3	8	50.0
CENTRAL & SPACE	13	4.2	7	4.3	3	2.6	1	2.2	3	5.6	2	7.7	0	0.0
NO RESPONSE	1	0.3	5	3.0	12	10.4	5	10.9	6	11.1	1	3.8	3	18.8
TOTAL	311	100.0	164	100.0	115	100.0	46	100.0	54	100.0	26	100.0	16	100.0

COOLING EQUIPMENT

	ORIGINAL		ADD1		ADD2		ADD3		TEMP1		TEMP2		TEMP3	
JUST CENTRAL	27	8.7	10	6.1	20	17.4	8	17.4	20	37.0	9	34.6	7	43.8
JUST WINDOW UNIT	77	24.8	31	18.9	15	13.0	5	10.9	14	25.9	10	38.5	5	31.3
CENTRAL & WINDOW	2	0.6	2	1.2	0	0.0	0	0.0	1	1.9	1	3.8	0	0.0
NO MECHANICAL	205	65.9	121	73.8	80	69.6	33	71.7	19	35.2	6	23.1	4	25.0
TOTAL	311	100.0	164	100.0	115	100.0	46	100.0	54	100.0	26	100.0	16	100.0

WINDOW UNIT COOLING

	ORIGINAL		ADD1		ADD2		ADD3		TEMP1		TEMP2		TEMP3	
ALL ROOMS	32	40.5	18	54.5	7	46.7	2	40.0	11	73.3	10	90.9	4	80.0
SELECTED ROOMS	40	50.6	12	36.4	6	40.0	3	60.0	1	6.7	0	0.0	1	20.0
NO RESPONSE	7	8.9	3	9.1	2	13.3	0	0.0	3	20.0	1	9.1	0	0.0
TOTAL	79	100.0	33	100.0	15	100.0	5	100.0	15	100.0	11	100.0	5	100.0

LIGHTING EQUIPMENT

	ORIGINAL		ADD1		ADD2		ADD3		TEMP1		TEMP2		TEMP3	
INCANDESCENT	115	37.0	55	33.5	26	22.6	13	28.3	5	9.3	1	3.8	1	6.3
FLUORESCENT	177	56.9	102	62.2	79	68.7	28	60.9	45	83.3	25	96.2	14	87.5
BOTH	3	1.0	2	1.2	1	0.9	0	0.0	0	0.0	0	0.0	0	0.0
OTHER	15	4.8	3	1.8	3	2.6	0	0.0	1	1.9	0	0.0	1	6.3
NO RESPONSE	2	0.6	2	1.2	7	6.1	5	10.9	3	5.6	0	0.0	0	0.0
TOTAL	311	100.0	164	100.0	115	100.0	46	100.0	54	100.0	26	100.0	16	100.0

NUMBER AND PERCENTAGE OF ELEMENTARY SCHOOLS IN MIDDLE TENNESSEE
USING SPECIFIED SOURCES OF WATER SUPPLY

	NUMBER	PERCENTAGE	
WATER UTILITY	268	86.2	*****
PUMP ON PROPERTY	39	12.5	*****
OTHER (WELLS, ETC.)	4	1.3	
NO RESPONSE	0	0.0	
TOTAL	311	100.0	-----

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

NUMBER AND PERCENTAGE OF PRINCIPALS OF ELEMENTARY SCHOOLS IN MIDDLE TENNESSEE
EXPRESSING SPECIFIED FACILITY NEEDS

	NUMBER	PERCENTAGE	
MAINTENANCE	162	52.1	*****
CONSTRUCTION	118	37.9	*****
BOTH	8	2.6	*
NEITHER (INCLUDING NO RESPONSE)	23	7.4	***
TOTAL	311	100.0	-----

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

PLANT PROFILES: ELEMENTARY SCHOOLS IN MIDDLE TENNESSEE

CRITERION	ADEQUATE		SUBSTANDARD	
	NUMBER	PERCENTAGE	NUMBER	PERCENTAGE
1. ENROLLMENT/CAPACITY RATIO <= 1	219	72.0	85	28.0
2. MEETS NATIONAL SCHOOL SIZE STANDARDS	93	30.3	214	69.7
3. MEETS NATIONAL SITE SIZE STANDARDS	49	16.6	247	83.4
4. ORIGINAL BUILDING 30 YRS OLD OR LESS	203	67.4	98	32.6
5. NO TEMPORARY STRUCTURES	241	77.5	70	22.5
6. NO BASEMENT USED FOR INSTRUCTION	245	78.8	66	21.2
7. NO BUILDING OF WOOD EXCLUSIVELY	292	93.9	19	6.1
8. CENTRAL HEATING IN ORIGINAL BUILDING	271	87.1	40	12.9
9. CENTRAL AIR OR ALL WINDOW UNITS	56	18.0	181	58.2
10. COMPLETE FLUORESCENT LIGHTING	160	51.4	97	31.2
11. USE OF WATER UTILITY	268	86.2	43	13.8
MEETS 7 OF 11 OF ABOVE CRITERIA	175	56.3	11	3.5

DATA DISPLAY 3.6

MIDDLE SCHOOLS IN MIDDLE TENNESSEE

52 RESPONDENTS

NUMBER AND PERCENTAGE OF MIDDLE SCHOOLS IN MIDDLE TENNESSEE
USING SPECIFIED PROPORTIONS OF SCHOOL PLANT CAPACITY

ENROLLMENT/CAPACITY		NUMBER	PERCENTAGE	
ABCVE	RATIO			
ABCVE	0.0- 0.5	2	3.8	**
ABCVE	0.5- 0.8	8	15.4	*****
ABOVE	0.8- 1.0	21	40.4	*****
ABCVE	1.0- 1.5	21	40.4	*****
ABCVE	1.5- 2.0	0	0.0	
ABOVE	2.0-13.0	0	0.0	
TOTAL		52	100.0	-----

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

SCHOOLS THAT EXCEED CAPACITY: 21 40.4%

NUMBER AND PERCENTAGE OF MIDDLE SCHOOLS IN MIDDLE TENNESSEE
HAVING SITES OF SPECIFIED SIZES (IN ACRES)

ACRES		NUMBER	PERCENTAGE	
0- LESS THAN				
0- LESS THAN	1	0	0.0	
1- LESS THAN	5	3	5.8	***
5- LESS THAN	10	18	34.6	*****
10- LESS THAN	20	14	26.9	*****
20- LESS THAN	30	6	11.5	*****
30- LESS THAN	50	10	19.2	*****
50- LESS THAN	100	1	1.9	*
TOTAL		52	100.0	-----

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

MEDIAN SCHOOL SITE SIZE IS 10 ACRES

NUMBER AND PERCENTAGE OF MIDDLE SCHOOLS IN MIDDLE TENNESSEE
MEETING SITE SIZE REQUIREMENTS: 11 21.2%

NUMBER AND PERCENTAGE OF BUILDINGS OF MIDDLE SCHOOLS IN MIDDLE TENNESSEE OCCURRING AT SPECIFIED STAGES OF THE SCHOOL LIFE CYCLE

AGE (IN YEARS)	ORIGINAL		ADD1		ADD2		ADD3		TEMP1		TEMP2		TEMP3	
60 OR OVER	3	5.8	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
40- LESS THAN 60	10	19.2	0	0.0	1	5.9	0	0.0	0	0.0	0	0.0	0	0.0
20- LESS THAN 40	10	19.2	7	31.8	2	11.8	1	14.3	0	0.0	0	0.0	0	0.0
LESS THAN 20	29	55.8	15	68.2	14	82.4	6	85.7	13	100.0	6	100.0	1	100.0
TOTAL	52	100.0	22	100.0	17	100.0	7	100.0	13	100.0	6	100.0	1	100.0

NUMBER AND PERCENTAGE OF BUILDINGS OF MIDDLE SCHOOLS IN MIDDLE TENNESSEE CONSTRUCTED OR ADDED IN SPECIFIED DECADES, 1840-1973

	ORIGINAL		ADD1		ADD2		ADD3		TEMP1		TEMP2		TEMP3	
AFTER 1840 - 1870	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1870 - 1880	1	1.9	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1880 - 1890	1	1.9	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1890 - 1900	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1900 - 1910	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1910 - 1920	1	1.9	0	0.0	1	5.9	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1920 - 1930	9	17.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1930 - 1940	5	9.6	3	13.6	0	0.0	1	14.3	0	0.0	0	0.0	0	0.0
AFTER 1940 - 1950	4	7.7	4	18.2	1	5.9	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1950 - 1960	7	13.5	8	36.4	8	47.1	1	14.3	1	7.7	1	16.7	0	0.0
AFTER 1960 - 1970	20	38.5	7	31.8	7	41.2	5	71.4	7	53.8	4	66.7	0	0.0
AFTER 1970 - 1973	4	7.7	0	0.0	0	0.0	0	0.0	5	38.5	1	16.7	1	100.0
TOTAL	52	100.0	22	100.0	17	100.0	7	100.0	13	100.0	6	100.0	1	100.0

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
OLDEST STRUCTURE	1875	1939	1915	1940	1956	1960	1971
MEAN YEAR OF CONSTRUCTION	1949	1954	1957	1959	1968	1967	1971

NUMBER AND PERCENTAGE OF MIDDLE SCHOOLS IN MIDDLE TENNESSEE HAVING SPECIFIED NUMBERS OF ADDITIONAL AND TEMPORARY STRUCTURES

	ADDITIONS		TEMPORARIES	
0	27	51.9	38	73.1
1	9	17.3	9	17.3
2	11	21.2	4	7.7
3	5	9.6	1	1.9
TOTAL	52	100.0	52	100.0

NUMBER AND PERCENTAGE OF MIDDLE SCHOOLS IN MIDDLE TENNESSEE OCCURRING IN SPECIFIED SCHOOL ENROLLMENT CATEGORIES

ENROLLMENT	NUMBER	PERCENTAGE	
0- LESS THAN 350	3	5.8	***
350- LESS THAN 700	22	42.3	*****
700- LESS THAN 9999	27	51.9	*****
TOTAL	52	100.0	

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

NUMBER AND PERCENTAGE OF BUILDINGS OF MIDDLE SCHOOLS IN MIDDLE TENNESSEE
UTILIZING BASEMENTS FOR INSTRUCTION OR OTHER PROGRAMS INVOLVING STUDENTS

ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
15 28.0	5 22.7	4 23.5	2 28.6	0 0.0	0 0.0	0 0.0

SCHOOLS USING BASEMENT OF SOME STRUCTURE FOR INSTRUCTION: 17 32.7%

NUMBER AND PERCENTAGE OF BUILDINGS OF MIDDLE SCHOOLS IN MIDDLE TENNESSEE
HAVING SPECIFIED NUMBERS OF STORIES (EXCLUDING BASEMENT)

NUMBER OF STORIES	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
1 STORY	22 42.3	9 40.9	9 52.9	3 42.9	12 92.3	5 83.3	1 100.0
2 STORIES	20 38.5	11 50.0	5 29.4	4 57.1	1 7.7	1 16.7	0 0.0
3 STORIES	10 19.2	2 9.1	3 17.6	0 0.0	0 0.0	0 0.0	0 0.0
4 STORIES	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
TOTAL	52 100.0	22 100.0	17 100.0	7 100.0	13 100.0	6 100.0	1 100.0

TWO STORIES OR MORE BUILT BEFORE 1920

3 5.8	0 0.0	1 5.9	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
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ALL WOOD STRUCTURES OF MORE THAN ONE STORY

0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
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NUMBER AND PERCENTAGE OF BUILDINGS OF MIDDLE SCHOOLS IN MIDDLE TENNESSEE
USING SELECTED EXTERIOR CONSTRUCTION MATERIALS

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
BRICK	38 73.1	20 90.9	16 94.1	7 100.0	2 15.4	1 16.7	0 0.0
WOOD	0 0.0	0 0.0	0 0.0	0 0.0	1 7.7	0 0.0	0 0.0
METAL	0 0.0	0 0.0	0 0.0	0 0.0	9 69.2	3 50.0	1 100.0
STONE	1 1.9	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
CONCRETE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
OTHER	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, METAL	1 1.9	1 4.5	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, STONE	1 1.9	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, CONCRETE	7 13.5	1 4.5	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, OTHER	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD, METAL	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD, CONCRETE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, METAL, CONCRETE	3 5.9	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, STONE, CONCRETE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD, METAL, CONCRETE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
ALL OTHER COMBINATIONS	1 1.9	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
NC RESPONSE	0 0.0	0 0.0	1 5.9	0 0.0	1 7.7	2 33.3	0 0.0
TOTAL	52 100.0	22 100.0	17 100.0	7 100.0	13 100.0	6 100.0	1 100.0

NUMBER AND PERCENTAGE OF BUILDINGS OF MIDDLE SCHOOLS IN MIDDLE TENNESSEE
USING SPECIFIED TYPES OF HEATING, COOLING, AND LIGHTING EQUIPMENT

HEATING EQUIPMENT

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
JUST CENTRAL	49 94.2	19 86.4	15 88.2	7 100.0	2 15.4	0 0.0	0 0.0
JUST SPACE	2 3.8	2 9.1	1 5.9	0 0.0	10 76.9	4 66.7	1 100.0
CENTRAL & SPACE	1 1.9	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
NO RESPONSE	0 0.0	1 4.5	1 5.9	0 0.0	1 7.7	2 33.3	0 0.0
TOTAL	52 100.0	22 100.0	17 100.0	7 100.0	13 100.0	6 100.0	1 100.0

COOLING EQUIPMENT

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
JUST CENTRAL	24 46.2	3 13.6	2 11.8	0 0.0	1 7.7	0 0.0	0 0.0
JUST WINDOW UNIT	4 7.7	2 9.1	1 5.9	1 14.3	10 76.9	2 33.3	1 100.0
CENTRAL & WINDOW	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
NO MECHANICAL	24 46.2	17 77.3	14 82.4	6 85.7	2 15.4	4 66.7	0 0.0
TOTAL	52 100.0	22 100.0	17 100.0	7 100.0	13 100.0	6 100.0	1 100.0

WINDOW UNIT COOLING

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
ALL ROOMS	1 25.0	1 50.0	0 0.0	0 0.0	3 30.0	0 0.0	0 0.0
SELECTED ROOMS	3 75.0	1 50.0	1 100.0	1 100.0	2 20.0	1 50.0	0 0.0
NO RESPONSE	0 0.0	0 0.0	0 0.0	0 0.0	5 50.0	1 50.0	1 100.0
TOTAL	4 100.0	2 100.0	1 100.0	1 100.0	10 100.0	2 100.0	1 100.0

LIGHTING EQUIPMENT

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
INCANDESCENT	8 15.4	7 31.8	5 29.4	1 14.3	1 7.7	1 16.7	0 0.0
FLUORESCENT	42 80.8	14 63.6	11 64.7	6 85.7	11 84.6	3 50.0	1 100.0
BOTH	1 1.9	1 4.5	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
OTHER	1 1.9	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
NO RESPONSE	0 0.0	0 0.0	1 5.9	0 0.0	1 7.7	2 33.3	0 0.0
TOTAL	52 100.0	22 100.0	17 100.0	7 100.0	13 100.0	6 100.0	1 100.0

NUMBER AND PERCENTAGE OF MIDDLE SCHOOLS IN MIDDLE TENNESSEE
USING SPECIFIED SOURCES OF WATER SUPPLY

	NUMBER	PERCENTAGE	
WATER UTILITY	52	100.0	*****
PUMP ON PROPERTY	0	0.0	
CTHER (WELLS, ETC.)	0	0.0	
NO RESPONSE	0	0.0	
TOTAL	52	100.0	-----
			10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

NUMBER AND PERCENTAGE OF PRINCIPALS OF MIDDLE SCHOOLS IN MIDDLE TENNESSEE
EXPRESSING SPECIFIED FACILITY NEEDS

	NUMBER	PERCENTAGE	
MAINTENANCE	30	57.7	*****
CCNSTRUCTION	18	34.6	*****
BOTH	1	1.9	*
NEITHER (INCLUDING NO RESPONSE)	3	5.8	***
TOTAL	52	100.0	-----
			10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

PLANT PROFILES: MIDDLE SCHOOLS IN MIDDLE TENNESSEE

CRITERION	ADEQUATE		SUBSTANDARD	
	NUMBER	PERCENTAGE	NUMBER	PERCENTAGE
1. ENROLLMENT/CAPACITY RATIO <= 1	31	59.6	21	40.4
2. MEETS NATIONAL SCHOOL SIZE STANDARDS	23	44.2	29	55.8
3. MEETS NATIONAL SITE SIZE STANDARDS	11	21.2	41	78.8
4. ORIGINAL BUILDING 30 YRS OLD OR LESS	33	63.5	19	36.5
5. NO TEMPORARY STRUCTURES	38	73.1	14	26.9
6. NO BASEMENT USED FOR INSTRUCTION	35	67.3	17	32.7
7. NO BUILDING OF WOOD EXCLUSIVELY	51	98.1	1	1.9
8. CENTRAL HEATING IN ORIGINAL BUILDING	50	96.2	2	3.8
9. CENTRAL AIR OR ALL WINDOW UNITS	25	48.1	22	42.3
10. COMPLETE FLUORESCENT LIGHTING	40	76.9	7	13.5
11. USE OF WATER UTILITY	52	100.0	0	0.0
12. MEETS 7 OF 11 OF ABOVE CRITERIA	35	67.3	2	3.8

114



DATA DISPLAY 3.7

SECONDARY SCHOOLS IN MIDDLE TENNESSEE

77 RESPONDENTS

NUMBER AND PERCENTAGE OF SECONDARY SCHOOLS IN MIDDLE TENNESSEE
USING SPECIFIED PROPORTIONS OF SCHOOL PLANT CAPACITY

ENROLLMENT/CAPACITY RATIO	NUMBER	PERCENTAGE	
ABOVE 0.0- 0.5	1	1.3	
ABOVE 0.5- 0.8	11	14.3	*****
ABOVE 0.8- 1.0	29	37.7	*****
ABOVE 1.0- 1.5	27	35.1	*****
ABOVE 1.5- 2.0	8	10.4	*****
ABOVE 2.0-13.0	1	1.3	
TOTAL	77	100.0	

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

SCHOOLS THAT EXCEED CAPACITY: 36 46.8%

NUMBER AND PERCENTAGE OF SECONDARY SCHOOLS IN MIDDLE TENNESSEE
HAVING SITES OF SPECIFIED SIZES (IN ACRES)

ACRES	NUMBER	PERCENTAGE	
0- LESS THAN 1	0	0.0	
1- LESS THAN 5	4	5.3	**
5- LESS THAN 10	12	15.8	*****
10- LESS THAN 20	21	27.6	*****
20- LESS THAN 30	13	17.1	*****
30- LESS THAN 50	15	19.7	*****
50- LESS THAN 100	11	14.5	*****
TOTAL	76	100.0	

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

MEDIAN SCHOOL SITE SIZE IS 20 ACRES

NUMBER AND PERCENTAGE OF SECONDARY SCHOOLS IN MIDDLE TENNESSEE
MEETING SITE SIZE REQUIREMENTS: 13 17.1%

NUMBER AND PERCENTAGE OF BUILDINGS OF SECONDARY SCHOOLS IN MIDDLE TENNESSEE OCCURRING AT SPECIFIED STAGES OF THE SCHOOL LIFE CYCLE

AGE (IN YEARS)	ORIGINAL		ADD1		ADD2		ADD3		TEMP1		TEMP2		TEMP3	
60 OR OVER	2	2.6	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
40- LESS THAN 60	7	9.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
20- LESS THAN 40	25	32.9	11	24.4	0	0.0	1	6.7	0	0.0	1	12.5	0	0.0
LESS THAN 20	42	55.3	34	75.6	27	100.0	14	93.3	16	100.0	7	87.5	2	100.0
TOTAL	76	100.0	45	100.0	27	100.0	15	100.0	16	100.0	8	100.0	2	100.0

NUMBER AND PERCENTAGE OF BUILDINGS OF SECONDARY SCHOOLS IN MIDDLE TENNESSEE CONSTRUCTED OR ADDED IN SPECIFIED DECADES, 1840-1973

	ORIGINAL		ADD1		ADD2		ADD3		TEMP1		TEMP2		TEMP3	
AFTER 1840 - 1870	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1870 - 1880	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1880 - 1890	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1890 - 1900	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1900 - 1910	2	2.6	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1910 - 1920	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1920 - 1930	3	3.9	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1930 - 1940	12	15.8	2	4.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1940 - 1950	11	14.5	4	8.9	0	0.0	1	6.7	0	0.0	1	12.5	0	0.0
AFTER 1950 - 1960	24	31.6	16	35.6	7	25.9	2	13.3	0	0.0	0	0.0	0	0.0
AFTER 1960 - 1970	19	25.0	20	44.4	19	70.4	10	66.7	8	50.0	3	37.5	1	50.0
AFTER 1970 - 1973	5	6.6	3	6.7	1	3.7	2	13.3	8	50.0	4	50.0	1	50.0
TOTAL	76	100.0	45	100.0	27	100.0	15	100.0	16	100.0	8	100.0	2	100.0

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
OLDEST STRUCTURE	1902	1937	1954	1950	1962	1945	1967
MEAN YEAR OF CONSTRUCTION	1952	1959	1963	1965	1969	1966	1969

NUMBER AND PERCENTAGE OF SECONDARY SCHOOLS IN MIDDLE TENNESSEE HAVING SPECIFIED NUMBERS OF ADDITIONAL AND TEMPORARY STRUCTURES

	ADDITIONS		TEMPORARIES	
0	30	39.0	59	76.6
1	21	27.3	12	15.6
2	12	15.6	4	5.2
3	14	18.2	2	2.6
TOTAL	77	100.0	77	100.0

NUMBER AND PERCENTAGE OF SECONDARY SCHOOLS IN MIDDLE TENNESSEE OCCURRING IN SPECIFIED SCHOOL ENROLLMENT CATEGORIES

ENROLLMENT	NUMBER	PERCENTAGE	
0- LESS THAN 350	5	6.5	***
350- LESS THAN 700	31	40.3	*****
700- LESS THAN 9999	41	53.2	*****
TOTAL	77	100.0	-----
			10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

NUMBER AND PERCENTAGE OF BUILDINGS OF SECONDARY SCHOOLS IN MIDDLE TENNESSEE
UTILIZING BASEMENTS FOR INSTRUCTION OR OTHER PROGRAMS INVOLVING STUDENTS

ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
22 28.6	6 13.3	3 11.1	0 0.0	0 0.0	0 0.0	0 0.0

SCHOOLS USING BASEMENT OF SOME STRUCTURE FOR INSTRUCTION: 23 29.9%

NUMBER AND PERCENTAGE OF BUILDINGS OF SECONDARY SCHOOLS IN MIDDLE TENNESSEE
HAVING SPECIFIED NUMBERS OF STORIES (EXCLUDING BASEMENT)

NUMBER OF STORIES	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
1 STORY	48 62.3	31 68.9	16 59.3	9 60.0	15 93.8	8 100.0	2 100.0
2 STORIES	26 33.8	13 28.9	11 40.7	5 33.3	1 6.3	0 0.0	0 0.0
3 STORIES	3 3.9	1 2.2	0 0.0	1 6.7	0 0.0	0 0.0	0 0.0
4 STORIES	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
TOTAL	77 100.0	45 100.0	27 100.0	15 100.0	16 100.0	8 100.0	2 100.0

TWO STORIES OR MORE BUILT BEFORE 1920

3 3.9	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
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ALL WOOD STRUCTURES OF MORE THAN ONE STORY

0 0.0	1 2.2	1 3.7	1 6.7	0 0.0	0 0.0	0 0.0	0 0.0
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NUMBER AND PERCENTAGE OF BUILDINGS OF SECONDARY SCHOOLS IN MIDDLE TENNESSEE
USING SELECTED EXTERIOR CONSTRUCTION MATERIALS

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
BRICK	66 85.7	43 95.6	24 88.9	13 86.7	2 12.5	1 12.5	0 0.0
WOOD	0 0.0	1 2.2	1 3.7	1 6.7	2 12.5	2 25.0	1 50.0
METAL	0 0.0	0 0.0	0 0.0	0 0.0	9 56.3	5 62.5	1 50.0
STONE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
CONCRETE	1 1.3	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
OTHER	0 0.0	0 0.0	1 3.7	1 6.7	1 6.3	0 0.0	0 0.0
BRICK, WOOD	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, METAL	4 5.2	0 0.0	1 3.7	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, STONE	1 1.3	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, CONCRETE	1 1.3	1 2.2	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, OTHER	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD, METAL	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD, CONCRETE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, METAL, CONCRETE	2 2.6	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, STONE, CONCRETE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD, METAL, CONCRETE	1 1.3	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
ALL OTHER COMBINATIONS	1 1.3	0 0.0	0 0.0	0 0.0	2 12.5	0 0.0	0 0.0
NO RESPONSE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
TOTAL	77 100.0	45 100.0	27 100.0	15 100.0	16 100.0	8 100.0	2 100.0

117

NUMBER AND PERCENTAGE OF BUILDINGS OF SECONDARY SCHOOLS IN MIDDLE TENNESSEE
USING SPECIFIED TYPES OF HEATING, COOLING, AND LIGHTING EQUIPMENT

HEATING EQUIPMENT

	ORIGINAL		ADD1		ADD2		ADD3		TEMP1		TEMP2		TEMP3	
JUST CENTRAL	67	87.0	36	80.0	22	81.5	11	73.3	7	43.8	1	12.5	1	50.0
JUST SPACE	4	5.2	5	11.1	3	11.1	3	20.0	9	56.3	6	75.0	1	50.0
CENTRAL & SPACE	6	7.8	2	4.4	2	7.4	1	6.7	0	0.0	0	0.0	0	0.0
NO RESPONSE	0	0.0	2	4.4	0	0.0	0	0.0	0	0.0	1	12.5	0	0.0
TOTAL	77	100.0	45	100.0	27	100.0	15	100.0	16	100.0	8	100.0	2	100.0

COOLING EQUIPMENT

	ORIGINAL		ADD1		ADD2		ADD3		TEMP1		TEMP2		TEMP3	
JUST CENTRAL	20	26.0	11	24.4	4	14.8	5	33.3	7	43.8	2	25.0	0	0.0
JUST WINDOW UNIT	18	23.4	7	15.6	6	22.2	4	26.7	3	18.8	2	25.0	0	0.0
CENTRAL & WINDOW	1	1.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
NO MECHANICAL	38	49.4	27	60.0	17	63.0	6	40.0	6	37.5	4	50.0	2	100.0
TOTAL	77	100.0	45	100.0	27	100.0	15	100.0	16	100.0	8	100.0	2	100.0

WINDOW UNIT COOLING

	ORIGINAL		ADD1		ADD2		ADD3		TEMP1		TEMP2		TEMP3	
ALL ROOMS	6	31.6	2	29.6	1	16.7	2	50.0	2	66.7	2	100.0	0	0.0
SELECTED ROOMS	13	68.4	5	71.4	5	83.3	2	50.0	1	33.3	0	0.0	0	0.0
NO RESPONSE	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
TOTAL	19	100.0	7	100.0	6	100.0	4	100.0	3	100.0	2	100.0	0	100.0

LIGHTING EQUIPMENT

	ORIGINAL		ADD1		ADD2		ADD3		TEMP1		TEMP2		TEMP3	
INCANDESCENT	18	23.4	11	24.4	4	14.8	4	26.7	1	6.3	1	12.5	0	0.0
FLUORESCENT	55	71.4	33	73.3	23	85.2	11	73.3	15	93.8	7	87.5	2	100.0
BOTH	2	2.6	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
OTHER	2	2.6	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
NO RESPONSE	0	0.0	1	2.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
TOTAL	77	100.0	45	100.0	27	100.0	15	100.0	16	100.0	8	100.0	2	100.0

811

NUMBER AND PERCENTAGE OF SECONDARY SCHOOLS IN MIDDLE TENNESSEE
USING SPECIFIED SOURCES OF WATER SUPPLY.

	NUMBER	PERCENTAGE	
WATER UTILITY	73	94.8	*****
PUMP ON PROPERTY	4	5.2	**
OTHER (WELLS, ETC.)	0	0.0	
NO RESPONSE	0	0.0	
TOTAL	77	100.0	-----

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

NUMBER AND PERCENTAGE OF PRINCIPALS OF SECONDARY SCHOOLS IN MIDDLE TENNESSEE
EXPRESSING SPECIFIED FACILITY NEEDS

	NUMBER	PERCENTAGE	
MAINTENANCE	30	39.0	*****
CONSTRUCTION	43	55.8	*****
BOTH	1	1.3	
NEITHER (INCLUDING NO RESPONSE)	3	3.9	**
TOTAL	77	100.0	-----

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

PLANT PROFILES: SECONDARY SCHOOLS IN MIDDLE TENNESSEE

CRITERION	ADEQUATE		SUBSTANDARD	
	NUMBER	PERCENTAGE	NUMBER	PERCENTAGE
1. ENROLLMENT/CAPACITY RATIO ≤ 1	41	53.2	36	46.8
2. MEETS NATIONAL SCHOOL SIZE STANDARDS	50	64.9	27	35.1
3. MEETS NATIONAL SITE SIZE STANDARDS	13	17.1	63	82.9
4. ORIGINAL BUILDING 30 YRS OLD OR LESS	57	75.0	19	25.0
5. NO TEMPORARY STRUCTURES	59	76.6	18	23.4
6. NO BASEMENT USED FOR INSTRUCTION	54	70.1	23	29.9
7. NO BUILDING OF WOOD EXCLUSIVELY	73	94.8	4	5.2
8. CENTRAL HEATING IN ORIGINAL BUILDING	73	94.8	4	5.2
9. CENTRAL AIR OR ALL WINDOW UNITS	24	31.2	30	39.0
10. COMPLETE FLUORESCENT LIGHTING	54	70.1	12	15.6
11. USE OF WATER UTILITY	73	94.8	4	5.2
12. MEETS 7 OF 11 OF ABOVE CRITERIA	53	68.8	2	2.6

119

COMBINED SCHOOLS IN MIDDLE TENNESSEE

25 RESPONDENTS

NUMBER AND PERCENTAGE OF COMBINED SCHOOLS IN MIDDLE TENNESSEE
USING SPECIFIED PROPORTIONS OF SCHOOL PLANT CAPACITY

ENROLLMENT/CAPACITY RATIO	NUMBER	PERCENTAGE	
ABOVE 0.0- 0.5	1	4.2	**
ABOVE 0.5- 0.8	3	12.5	*****
ABOVE 0.8- 1.0	12	50.0	*****
ABOVE 1.0- 1.5	8	33.3	*****
ABOVE 1.5- 2.0	0	0.0	
ABOVE 2.0-13.0	0	0.0	
TOTAL	24	100.0	-----

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

SCHOOLS THAT EXCEED CAPACITY: 8 33.3%

NUMBER AND PERCENTAGE OF COMBINED SCHOOLS IN MIDDLE TENNESSEE
HAVING SITES OF SPECIFIED SIZES (IN ACRES)

ACRES	NUMBER	PERCENTAGE	
0- LESS THAN 1	0	0.0	
1- LESS THAN 5	4	16.0	*****
5- LESS THAN 10	8	32.0	*****
10- LESS THAN 20	6	24.0	*****
20- LESS THAN 30	3	12.0	*****
30- LESS THAN 50	4	16.0	*****
50- LESS THAN 100	0	0.0	
TOTAL	25	100.0	-----

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

MEDIAN SCHOOL SITE SIZE IS 10 ACRES

NUMBER AND PERCENTAGE OF COMBINED SCHOOLS IN MIDDLE TENNESSEE
MEETING SITE SIZE REQUIREMENTS: 2 8.0%

NUMBER AND PERCENTAGE OF BUILDINGS OF COMBINED SCHOOLS IN MIDDLE TENNESSEE
OCCURRING AT SPECIFIED STAGES OF THE SCHOOL LIFE CYCLE

AGE (IN YEARS)	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
60 OR OVER	2 8.3	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
40- LESS THAN 60	7 29.2	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
20- LESS THAN 40	12 50.0	10 50.0	1 7.1	0 0.0	0 0.0	0 0.0	0 0.0
LESS THAN 20	3 12.5	10 50.0	13 92.9	8 100.0	3 100.0	2 100.0	1 100.0
TOTAL	24 100.0	20 100.0	14 100.0	8 100.0	3 100.0	2 100.0	1 100.0

NUMBER AND PERCENTAGE OF BUILDINGS OF COMBINED SCHOOLS IN MIDDLE TENNESSEE
CONSTRUCTED OR ADDED IN SPECIFIED DECADES, 1840-1973

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
AFTER 1840 - 1870	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1870 - 1880	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1880 - 1890	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1890 - 1900	1 4.2	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1900 - 1910	1 4.2	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1910 - 1920	1 4.2	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1920 - 1930	6 25.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1930 - 1940	6 25.0	1 5.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1940 - 1950	4 16.7	5 25.0	1 7.1	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1950 - 1960	3 12.5	7 35.0	7 50.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1960 - 1970	2 8.3	7 35.0	5 35.7	6 75.0	2 66.7	1 50.0	0 0.0
AFTER 1970 - 1973	0 0.0	0 0.0	1 7.1	2 25.0	1 33.3	1 50.0	1 100.0
TOTAL	24 100.0	20 100.0	14 100.0	8 100.0	3 100.0	2 100.0	1 100.0

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
OLDEST STRUCTURE	1900	1940	1948	1963	1968	1969	1972
MEAN YEAR OF CONSTRUCTION	1936	1955	1960	1967	1970	1970	1972

NUMBER AND PERCENTAGE OF COMBINED SCHOOLS IN MIDDLE TENNESSEE
HAVING SPECIFIED NUMBERS OF ADDITIONAL AND TEMPORARY STRUCTURES

	ADDITIONS	TEMPORARIES
0	4 16.0	21 84.0
1	6 24.0	2 8.0
2	9 36.0	2 8.0
3	6 24.0	0 0.0
TOTAL	25 100.0	25 100.0

NUMBER AND PERCENTAGE OF COMBINED SCHOOLS IN MIDDLE TENNESSEE
OCCURRING IN SPECIFIED SCHOOL ENROLLMENT CATEGORIES

ENROLLMENT	NUMBER	PERCENTAGE
0- LESS THAN 350	8	32.0
350- LESS THAN 700	15	60.0
700- LESS THAN 9999	2	8.0
TOTAL	25	100.0

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

NUMBER AND PERCENTAGE OF BUILDINGS OF COMBINED SCHOOLS IN MIDDLE TENNESSEE
UTILIZING BASEMENTS FOR INSTRUCTION OR OTHER PROGRAMS INVOLVING STUDENTS

ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
9 36.0	2 10.0	3 21.4	0 0.0	0 0.0	1 50.0	0 0.0

SCHOOLS USING BASEMENT OF SOME STRUCTURE FOR INSTRUCTION: 13 52.0%

NUMBER AND PERCENTAGE OF BUILDINGS OF COMBINED SCHOOLS IN MIDDLE TENNESSEE
HAVING SPECIFIED NUMBERS OF STORIES (EXCLUDING BASEMENT)

NUMBER OF STORIES	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
1 STORY	13 52.0	15 75.0	10 71.4	7 87.5	3 100.0	2 100.0	1 100.0
2 STORIES	12 48.0	5 25.0	4 28.6	1 12.5	0 0.0	0 0.0	0 0.0
3 STORIES	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
4 STORIES	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
TOTAL	25 100.0	20 100.0	14 100.0	8 100.0	3 100.0	2 100.0	1 100.0

TWO STORIES OR MORE BUILT BEFORE 1920

2 8.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
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ALL WOOD STRUCTURES OF MORE THAN ONE STORY

0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
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NUMBER AND PERCENTAGE OF BUILDINGS OF COMBINED SCHOOLS IN MIDDLE TENNESSEE
USING SELECTED EXTERIOR CONSTRUCTION MATERIALS

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
BRICK	19 76.0	15 75.0	11 78.6	7 87.5	0 0.0	0 0.0	0 0.0
WOOD	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
METAL	0 0.0	0 0.0	1 7.1	0 0.0	2 66.7	0 0.0	0 0.0
STONE	1 4.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
CONCRETE	2 8.0	2 10.0	0 0.0	0 0.0	1 33.3	0 0.0	0 0.0
OTHER	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, METAL	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, STONE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, CONCRETE	1 4.0	2 10.0	2 14.3	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, OTHER	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD, METAL	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD, CONCRETE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, METAL, CONCRETE	1 4.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, STONE, CONCRETE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD, METAL, CONCRETE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
ALL OTHER COMBINATIONS	0 0.0	1 5.0	0 0.0	0 0.0	0 0.0	1 50.0	1 100.0
NO RESPONSE	1 4.0	0 0.0	0 0.0	1 12.5	0 0.0	1 50.0	0 0.0
TOTAL	25 100.0	20 100.0	14 100.0	8 100.0	3 100.0	2 100.0	1 100.0

NUMBER AND PERCENTAGE OF BUILDINGS OF COMBINED SCHOOLS IN MIDDLE TENNESSEE
USING SPECIFIED TYPES OF HEATING, COOLING, AND LIGHTING EQUIPMENT

HEATING EQUIPMENT

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
JUST CENTRAL	19 76.0	15 75.0	10 71.4	5 62.5	1 33.3	0 0.0	0 0.0
JUST SPACE	5 20.0	4 20.0	4 28.6	2 25.0	2 66.7	1 50.0	1 100.0
CENTRAL & SPACE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
NO RESPONSE	1 4.0	1 5.0	0 0.0	1 12.5	0 0.0	1 50.0	0 0.0
TOTAL	25 100.0	20 100.0	14 100.0	8 100.0	3 100.0	2 100.0	1 100.0

COOLING EQUIPMENT

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
JUST CENTRAL	0 0.0	1 5.0	0 0.0	2 25.0	0 0.0	1 50.0	1 100.0
JUST WINDOW UNIT	4 16.0	3 15.0	3 21.4	0 0.0	1 33.3	0 0.0	0 0.0
CENTRAL & WINDOW	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
NO MECHANICAL	21 84.0	16 80.0	11 78.6	6 75.0	2 66.7	1 50.0	0 0.0
TOTAL	25 100.0	20 100.0	14 100.0	8 100.0	3 100.0	2 100.0	1 100.0

WINDOW UNIT COOLING

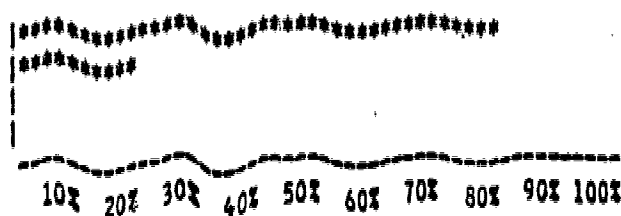
	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
ALL ROOMS	2 50.0	1 33.3	1 33.3	0 0.0	0 0.0	0 0.0	0 0.0
SELECTED ROOMS	2 50.0	2 66.7	2 66.7	0 0.0	0 0.0	0 0.0	0 0.0
NO RESPONSE	0 0.0	0 0.0	0 0.0	0 0.0	1 100.0	0 0.0	0 0.0
TOTAL	4 100.0	3 100.0	3 100.0	0 100.0	1 100.0	0 100.0	0 100.0

LIGHTING EQUIPMENT

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
INCANDESCENT	12 48.0	9 45.0	5 35.7	0 0.0	0 0.0	0 0.0	0 0.0
FLUORESCENT	9 36.0	10 50.0	9 64.3	7 87.5	3 100.0	1 50.0	1 100.0
BOTH	1 4.0	1 5.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
OTHER	2 8.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
NO RESPONSE	1 4.0	0 0.0	0 0.0	1 12.5	0 0.0	1 50.0	0 0.0
TOTAL	25 100.0	20 100.0	14 100.0	8 100.0	3 100.0	2 100.0	1 100.0

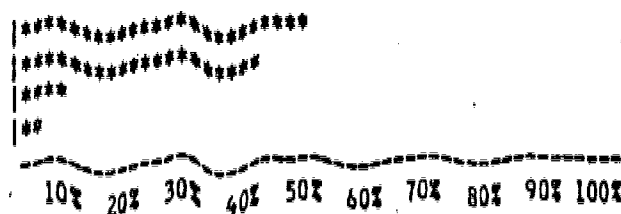
NUMBER AND PERCENTAGE OF COMBINED SCHOOLS IN MIDDLE TENNESSEE
USING SPECIFIED SOURCES OF WATER SUPPLY

	NUMBER	PERCENTAGE
WATER UTILITY	20	80.0
PUMP ON PROPERTY	5	20.0
OTHER (WELLS, ETC.)	0	0.0
NO RESPONSE	0	0.0
TOTAL	25	100.0



NUMBER AND PERCENTAGE OF PRINCIPALS OF COMBINED SCHOOLS IN MIDDLE TENNESSEE
EXPRESSING SPECIFIED FACILITY NEEDS

	NUMBER	PERCENTAGE
MAINTENANCE	12	48.0
CONSTRUCTION	10	40.0
BOTH	2	8.0
NEITHER (INCLUDING NO RESPONSE)	1	4.0
TOTAL	25	100.0



PLANT PROFILES: COMBINED SCHOOLS IN MIDDLE TENNESSEE

CRITERION	ADEQUATE		SUBSTANDARD	
	NUMBER	PERCENTAGE	NUMBER	PERCENTAGE
1. ENROLLMENT/CAPACITY RATIO \leq 1	16	66.7	8	33.3
2. MEETS NATIONAL SCHOOL SIZE STANDARDS	20	80.0	5	20.0
3. MEETS NATIONAL SITE SIZE STANDARDS	2	8.0	23	92.0
4. ORIGINAL BUILDING 30 YRS OLD OR LESS	8	33.3	16	66.7
5. NO TEMPORARY STRUCTURES	21	84.0	4	16.0
6. NO BASEMENT USED FOR INSTRUCTION	12	48.0	13	52.0
7. NO BUILDING OF WOOD EXCLUSIVELY	25	100.0	0	0.0
8. CENTRAL HEATING IN ORIGINAL BUILDING	19	76.0	6	24.0
9. CENTRAL AIR OR ALL WINDOW UNITS	2	8.0	17	68.0
10. COMPLETE FLUORESCENT LIGHTING	8	32.0	7	28.0
11. USE OF WATER UTILITY	20	80.0	5	20.0
12. MEETS 7 OF 11 OF ABOVE CRITERIA	12	48.0	1	4.0

ELEMENTARY SCHOOLS IN EAST TENNESSEE

453 RESPONDENTS

NUMBER AND PERCENTAGE OF ELEMENTARY SCHOOLS IN EAST TENNESSEE
USING SPECIFIED PROPORTIONS OF SCHOOL PLANT CAPACITY

ENROLLMENT/CAPACITY RATIO	NUMBER	PERCENTAGE	
ABOVE 0.0- 0.5	25	5.6	***
ABOVE 0.5- 0.8	121	26.9	*****
ABOVE 0.8- 1.0	202	45.0	*****
ABOVE 1.0- 1.5	96	21.4	*****
ABOVE 1.5- 2.0	4	0.9	
ABOVE 2.0-13.0	1	0.2	
TOTAL	449	100.0	-----

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

SCHOOLS THAT EXCEED CAPACITY: 101 22.5%

NUMBER AND PERCENTAGE OF ELEMENTARY SCHOOLS IN EAST TENNESSEE
HAVING SITES OF SPECIFIED SIZES (IN ACRES)

ACRES	NUMBER	PERCENTAGE	
0- LESS THAN 1	0	0.0	
1- LESS THAN 5	138	31.4	*****
5- LESS THAN 10	144	32.8	*****
10- LESS THAN 20	126	28.7	*****
20- LESS THAN 30	21	4.8	**
30- LESS THAN 50	8	1.8	*
50- LESS THAN 100	2	0.5	
TOTAL	439	100.0	-----

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

MEDIAN SCHOOL SITE SIZE IS 7 ACRES

NUMBER AND PERCENTAGE OF ELEMENTARY SCHOOLS IN EAST TENNESSEE
MEETING SITE SIZE REQUIREMENTS: 74 16.9%

NUMBER AND PERCENTAGE OF BUILDINGS OF ELEMENTARY SCHOOLS IN EAST TENNESSEE OCCURRING AT SPECIFIED STAGES OF THE SCHOOL LIFE CYCLE

AGE (IN YEARS)	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
60 OR OVER	17 3.8	1 0.4	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
40- LESS THAN 60	112 25.3	19 7.5	4 2.2	0 0.0	0 0.0	0 0.0	0 0.0
20- LESS THAN 40	182 41.2	111 44.0	48 26.2	6 8.3	0 0.0	0 0.0	0 0.0
LESS THAN 20	131 29.6	121 48.0	131 71.6	66 91.7	72 100.0	31 100.0	29 100.0
TOTAL	442 100.0	252 100.0	183 100.0	72 100.0	72 100.0	31 100.0	29 100.0

NUMBER AND PERCENTAGE OF BUILDINGS OF ELEMENTARY SCHOOLS IN EAST TENNESSEE CONSTRUCTED OR ADDED IN SPECIFIED DECADES, 1840-1973

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
AFTER 1840 - 1870	1 0.2	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1870 - 1880	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1880 - 1890	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1890 - 1900	4 0.9	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1900 - 1910	8 1.8	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1910 - 1920	32 7.2	4 1.6	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1920 - 1930	67 15.2	14 5.6	1 0.5	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1930 - 1940	78 17.6	20 7.9	9 4.9	1 1.4	0 0.0	0 0.0	0 0.0
AFTER 1940 - 1950	90 20.4	59 23.4	23 12.6	2 2.8	0 0.0	0 0.0	0 0.0
AFTER 1950 - 1960	100 22.6	103 40.9	84 45.9	21 29.2	6 8.3	0 0.0	1 3.4
AFTER 1960 - 1970	49 11.1	47 18.7	56 30.6	41 56.9	46 63.9	21 67.7	12 41.4
AFTER 1970 - 1973	13 2.9	5 2.0	10 5.5	7 9.7	20 27.8	10 32.3	16 55.2
TOTAL	442 100.0	252 100.0	183 100.0	72 100.0	72 100.0	31 100.0	29 100.0

OLDEST STRUCTURE	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
MEAN YEAR OF CONSTRUCTION	1870	1911	1926	1938	1954	1961	1954
	1943	1951	1957	1962	1967	1968	1969

NUMBER AND PERCENTAGE OF ELEMENTARY SCHOOLS IN EAST TENNESSEE HAVING SPECIFIED NUMBERS OF ADDITIONAL AND TEMPORARY STRUCTURES

	ADDITIONS	TEMPORARIES
0	162 35.8	365 80.6
1	137 30.2	57 12.6
2	92 20.3	18 4.0
3	62 13.7	13 2.9
TOTAL	453 100.0	453 100.0

NUMBER AND PERCENTAGE OF ELEMENTARY SCHOOLS IN EAST TENNESSEE OCCURRING IN SPECIFIED SCHOOL ENROLLMENT CATEGORIES

ENROLLMENT	NUMBER	PERCENTAGE
0- LESS THAN 350	236	52.3
350- LESS THAN 700	177	39.2
700- LESS THAN 9999	38	8.4
TOTAL	451	100.0

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

NUMBER AND PERCENTAGE OF BUILDINGS OF ELEMENTARY SCHOOLS IN EAST TENNESSEE
UTILIZING BASEMENTS FOR INSTRUCTION OR OTHER PROGRAMS INVOLVING STUDENTS

ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
82 18.1	21 8.3	18 9.8	10 13.9	1 1.4	1 3.2	2 6.9

SCHOOLS USING BASEMENT OF SOME STRUCTURE FOR INSTRUCTION: 102 22.5%

NUMBER AND PERCENTAGE OF BUILDINGS OF ELEMENTARY SCHOOLS IN EAST TENNESSEE
HAVING SPECIFIED NUMBERS OF STORIES (EXCLUDING BASEMENT)

NUMBER OF STORIES	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
1 STORY	321 70.9	182 72.2	142 77.6	57 79.2	71 98.6	29 93.5	29 100.0
2 STORIES	109 24.1	62 24.6	32 17.5	12 16.7	1 1.4	2 6.5	0 0.0
3 STORIES	23 5.1	8 3.2	9 4.9	3 4.2	0 0.0	0 0.0	0 0.0
4 STORIES	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
TOTAL	453 100.0	252 100.0	183 100.0	72 100.0	72 100.0	31 100.0	29 100.0

TWO STORIES OR MORE BUILT BEFORE 1920	31 6.8	3 1.2	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
ALL WOOD STRUCTURES OF MORE THAN ONE STORY	3 0.7	1 0.4	1 0.5	0 0.0	0 0.0	1 3.2	0 0.0

NUMBER AND PERCENTAGE OF BUILDINGS OF ELEMENTARY SCHOOLS IN EAST TENNESSEE
USING SELECTED EXTERIOR CONSTRUCTION MATERIALS

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
BRICK	328 72.4	191 75.8	149 81.4	50 69.4	5 6.9	1 3.2	2 6.9
WOOD	19 4.2	2 0.8	3 1.6	0 0.0	29 40.3	13 41.9	6 20.7
METAL	0 0.0	2 0.8	1 0.5	1 1.4	26 36.1	15 48.4	14 48.3
STONE	4 0.9	1 0.4	1 0.5	0 0.0	0 0.0	0 0.0	0 0.0
CONCRETE	10 2.2	7 2.8	2 1.1	4 5.6	0 0.0	0 0.0	0 0.0
OTHER	4 0.9	6 2.4	4 2.2	1 1.4	3 4.2	0 0.0	1 3.4
BRICK, WOOD	11 2.4	5 2.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, METAL	7 1.5	4 1.6	2 1.1	2 2.8	0 0.0	0 0.0	0 0.0
BRICK, STONE	2 0.4	1 0.4	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, CONCRETE	23 5.1	6 2.4	6 3.3	4 5.6	1 1.4	0 0.0	0 0.0
BRICK, OTHER	6 1.3	2 0.8	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD, METAL	2 0.4	3 1.2	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD, CONCRETE	3 0.7	0 0.0	1 0.5	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, METAL, CONCRETE	13 2.9	8 3.2	2 1.1	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, STONE, CONCRETE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD, METAL, CONCRETE	4 0.9	3 1.2	2 1.1	2 2.8	0 0.0	0 0.0	0 0.0
ALL OTHER COMBINATIONS	13 2.9	3 1.2	2 1.1	1 1.4	4 5.6	1 3.2	2 6.9
NO RESPONSE	4 0.9	8 3.2	8 4.4	7 9.7	4 5.6	1 3.2	4 13.8
TOTAL	453 100.0	252 100.0	183 100.0	72 100.0	72 100.0	31 100.0	29 100.0

NUMBER AND PERCENTAGE OF BUILDINGS OF ELEMENTARY SCHOOLS IN EAST TENNESSEE
USING SPECIFIED TYPES OF HEATING, COOLING, AND LIGHTING EQUIPMENT

HEATING EQUIPMENT

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
JUST CENTRAL	387 85.4	202 80.2	146 79.8	47 65.3	12 16.7	6 19.4	7 24.1
JUST SPACE	32 7.1	21 8.3	17 9.3	12 16.7	49 68.1	22 71.0	17 58.6
CENTRAL & SPACE	22 4.9	8 3.2	6 3.3	3 4.2	0 0.0	0 0.0	0 0.0
NO RESPONSE	12 2.6	21 8.3	14 7.7	10 13.9	11 15.3	3 9.7	5 17.2
TOTAL	453 100.0	252 100.0	183 100.0	72 100.0	72 100.0	31 100.0	29 100.0

COOLING EQUIPMENT

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
JUST CENTRAL	28 6.2	12 4.8	6 3.3	7 9.7	25 34.7	11 35.5	12 41.4
JUST WINDOW UNIT	80 17.7	33 13.1	22 12.0	10 13.9	14 19.4	7 22.6	6 20.7
CENTRAL & WINDOW	3 0.7	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
NO MECHANICAL	342 75.5	207 82.1	155 84.7	55 76.4	33 45.8	13 41.9	11 37.9
TOTAL	453 100.0	252 100.0	183 100.0	72 100.0	72 100.0	31 100.0	29 100.0

WINDOW UNIT COOLING

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
ALL ROOMS	47 56.6	21 63.6	8 36.4	6 60.0	9 64.3	5 71.4	4 66.7
SELECTED ROOMS	22 26.5	7 21.2	7 31.8	1 10.0	1 7.1	1 14.3	2 33.3
NO RESPONSE	14 16.9	5 15.2	7 31.8	3 30.0	4 28.6	1 14.3	0 0.0
TOTAL	83 100.0	33 100.0	22 100.0	10 100.0	14 100.0	7 100.0	6 100.0

LIGHTING EQUIPMENT

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
INCANDESCENT	177 39.1	82 32.5	49 26.8	17 23.6	4 5.6	1 3.2	2 6.9
FLUORESCENT	242 53.4	149 59.1	121 66.1	48 66.7	66 91.7	29 93.5	23 79.3
BOTH	12 2.6	7 2.8	2 1.1	1 1.4	0 0.0	0 0.0	0 0.0
OTHER	26 5.7	6 2.4	5 2.7	1 1.4	0 0.0	0 0.0	0 0.0
NO RESPONSE	1 0.2	9 3.6	6 3.3	5 6.9	2 2.8	1 3.2	4 13.8
TOTAL	453 100.0	252 100.0	183 100.0	72 100.0	72 100.0	31 100.0	29 100.0

NUMBER AND PERCENTAGE OF ELEMENTARY SCHOOLS IN EAST TENNESSEE
USING SPECIFIED SOURCES OF WATER SUPPLY

	NUMBER	PERCENTAGE	
WATER UTILITY	354	78.1	*****
PUMP ON PROPERTY	93	20.5	*****
OTHER (WELLS, ETC.)	6	1.3	
NO RESPONSE	0	0.0	
TOTAL	453	100.0	-----

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

NUMBER AND PERCENTAGE OF PRINCIPALS OF ELEMENTARY SCHOOLS IN EAST TENNESSEE
EXPRESSING SPECIFIED FACILITY NEEDS

	NUMBER	PERCENTAGE	
MAINTENANCE	238	52.5	*****
CONSTRUCTION	169	37.3	*****
BOTH	12	2.6	*
NEITHER (INCLUDING NO RESPONSE)	34	7.5	**
TOTAL	453	100.0	-----

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

PLANT PROFILES: ELEMENTARY SCHOOLS IN EAST TENNESSEE

CRITERION	ADEQUATE		SUBSTANDARD	
	NUMBER	PERCENTAGE	NUMBER	PERCENTAGE
1. ENROLLMENT/CAPACITY RATIO <= 1	348	77.5	101	22.5
2. MEETS NATIONAL SCHOOL SIZE STANDARDS	134	29.7	317	70.3
3. MEETS NATIONAL SITE SIZE STANDARDS	74	16.9	364	83.1
4. ORIGINAL BUILDING 30 YRS OLD OR LESS	245	55.4	197	44.6
5. NO TEMPORARY STRUCTURES	365	80.6	88	19.4
6. NO BASEMENT USED FOR INSTRUCTION	351	77.5	102	22.5
7. NO BUILDING OF WOOD EXCLUSIVELY	402	88.7	51	11.3
8. CENTRAL HEATING IN ORIGINAL BUILDING	409	90.3	44	9.7
9. CENTRAL AIR OR ALL WINDOW UNITS	72	15.9	310	68.4
10. COMPLETE FLUORESCENT LIGHTING	221	48.8	150	33.1
11. USE OF WATER UTILITY	354	78.1	99	21.9
12. MEETS 7 OF 11 OF ABOVE CRITERIA	225	49.7	30	6.6

MIDDLE SCHOOLS IN EAST TENNESSEE

61 RESPONDENTS

NUMBER AND PERCENTAGE OF MIDDLE SCHOOLS IN EAST TENNESSEE
USING SPECIFIED PROPORTIONS OF SCHOOL PLANT CAPACITY

ENROLLMENT/CAPACITY RATIO	NUMBER	PERCENTAGE	
ABOVE 0.0- 0.5	0	0.0	
ABOVE 0.5- 0.8	14	24.1	*****
ABOVE 0.8- 1.0	25	43.1	*****
ABOVE 1.0- 1.5	18	31.0	*****
ABOVE 1.5- 2.0	1	1.7	*
ABOVE 2.0-13.0	0	0.0	
TOTAL	58	100.0	

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

SCHOOLS THAT EXCEED CAPACITY: 19 32.8%

NUMBER AND PERCENTAGE OF MIDDLE SCHOOLS IN EAST TENNESSEE
HAVING SITES OF SPECIFIED SIZES (IN ACRES)

ACRES	NUMBER	PERCENTAGE	
0- LESS THAN 1	0	0.0	
1- LESS THAN 5	14	23.7	*****
5- LESS THAN 10	17	28.8	*****
10- LESS THAN 20	12	20.3	*****
20- LESS THAN 30	9	15.3	*****
30- LESS THAN 50	6	10.2	*****
50- LESS THAN 100	1	1.7	*
TOTAL	59	100.0	

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

MEDIAN SCHOOL SITE SIZE IS 9 ACRES

NUMBER AND PERCENTAGE OF MIDDLE SCHOOLS IN EAST TENNESSEE
MEETING SITE SIZE REQUIREMENTS: 7 11.9%

NUMBER AND PERCENTAGE OF BUILDINGS OF MIDDLE SCHOOLS IN EAST TENNESSEE OCCURRING AT SPECIFIED STAGES OF THE SCHOOL LIFE CYCLE

AGE (IN YEARS)	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
60 OR OVER	2 3.4	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
40- LESS THAN 60	17 28.8	5 17.9	2 9.5	0 0.0	0 0.0	0 0.0	0 0.0
20- LESS THAN 40	11 18.6	5 17.9	6 28.6	4 36.4	1 11.1	0 0.0	0 0.0
LESS THAN 20	29 49.2	18 64.3	13 61.9	7 63.6	8 88.9	4 100.0	3 100.0
TOTAL	59 100.0	28 100.0	21 100.0	11 100.0	9 100.0	4 100.0	3 100.0

NUMBER AND PERCENTAGE OF BUILDINGS OF MIDDLE SCHOOLS IN EAST TENNESSEE CONSTRUCTED OR ADDED IN SPECIFIED DECADES, 1840-1973

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
AFTER 1840 - 1870	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1870 - 1880	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1880 - 1890	1 1.7	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1890 - 1900	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1900 - 1910	1 1.7	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1910 - 1920	4 6.8	1 3.6	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1920 - 1930	10 16.9	3 10.7	2 9.5	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1930 - 1940	9 15.3	2 7.1	5 23.8	0 0.0	1 11.1	0 0.0	0 0.0
AFTER 1940 - 1950	3 5.1	2 7.1	0 0.0	2 18.2	0 0.0	0 0.0	0 0.0
AFTER 1950 - 1960	17 28.8	14 50.0	6 28.6	4 36.4	1 11.1	0 0.0	0 0.0
AFTER 1960 - 1970	11 18.6	5 17.9	8 38.1	5 45.5	4 44.4	3 75.0	0 0.0
AFTER 1970 - 1973	3 5.1	1 3.6	0 0.0	0 0.0	3 33.3	1 25.0	3 100.0
TOTAL	59 100.0	28 100.0	21 100.0	11 100.0	9 100.0	4 100.0	3 100.0

OLDEST STRUCTURE	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
MEAN YEAR OF CONSTRUCTION	1883 1945	1916 1951	1925 1951	1948 1958	1940 1964	1964 1969	1971 1971

NUMBER AND PERCENTAGE OF MIDDLE SCHOOLS IN EAST TENNESSEE HAVING SPECIFIED NUMBERS OF ADDITIONAL AND TEMPORARY STRUCTURES

	ADDITIONS	TEMPORARIES
0	27 44.3	50 82.0
1	16 26.2	7 11.5
2	10 16.4	3 4.9
3	8 13.1	1 1.6
TOTAL	61 100.0	61 100.0

NUMBER AND PERCENTAGE OF MIDDLE SCHOOLS IN EAST TENNESSEE OCCURRING IN SPECIFIED SCHOOL ENROLLMENT CATEGORIES

ENROLLMENT	NUMBER	PERCENTAGE
0- LESS THAN 350	7	11.7
350- LESS THAN 700	28	46.7
700- LESS THAN 9999	25	41.7
TOTAL	60	100.0



131

NUMBER AND PERCENTAGE OF BUILDINGS OF MIDDLE SCHOOLS IN EAST TENNESSEE
UTILIZING BASEMENTS FOR INSTRUCTION OR OTHER PROGRAMS INVOLVING STUDENTS

ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
14 23.0	3 10.7	4 19.0	2 18.2	0 0.0	0 0.0	0 0.0

SCHOOLS USING BASEMENT OF SOME STRUCTURE FOR INSTRUCTION: 16 26.2%

NUMBER AND PERCENTAGE OF BUILDINGS OF MIDDLE SCHOOLS IN EAST TENNESSEE
HAVING SPECIFIED NUMBERS OF STORIES (EXCLUDING BASEMENT)

NUMBER OF STORIES	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
1 STORY	22 36.1	16 57.1	13 61.9	7 63.6	8 88.9	4 100.0	3 100.0
2 STORIES	28 45.9	10 35.7	3 14.3	4 36.4	1 11.1	0 0.0	0 0.0
3 STORIES	11 18.0	2 7.1	5 23.8	0 0.0	0 0.0	0 0.0	0 0.0
4 STORIES	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
TOTAL	61 100.0	28 100.0	21 100.0	11 100.0	9 100.0	4 100.0	3 100.0

TWO STORIES OR MORE BUILT BEFORE 1920

7 11.5	1 3.6	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
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ALL WOOD STRUCTURES OF MORE THAN ONE STORY

0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
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NUMBER AND PERCENTAGE OF BUILDINGS OF MIDDLE SCHOOLS IN EAST TENNESSEE
USING SELECTED EXTERIOR CONSTRUCTION MATERIALS

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
BRICK	43 70.5	24 85.7	16 76.2	10 90.9	2 22.2	0 0.0	0 0.0
WOOD	0 0.0	1 3.6	0 0.0	0 0.0	4 44.4	1 25.0	1 33.3
METAL	0 0.0	1 3.6	0 0.0	0 0.0	2 22.2	3 75.0	0 0.0
STONE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
CONCRETE	1 1.6	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
OTHER	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD	1 1.6	0 0.0	0 0.0	0 0.0	1 11.1	0 0.0	0 0.0
BRICK, METAL	1 1.6	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, STONE	1 1.6	0 0.0	1 4.8	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, CONCRETE	8 13.1	1 3.6	2 9.5	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, OTHER	1 1.6	1 3.6	1 4.8	1 9.1	0 0.0	0 0.0	0 0.0
BRICK, WOOD, METAL	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD, CONCRETE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, METAL, CONCRETE	4 6.6	0 0.0	1 4.8	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, STONE, CONCRETE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD, METAL, CONCRETE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
ALL OTHER COMBINATIONS	1 1.6	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
NO RESPONSE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	2 66.7
TOTAL	61 100.0	28 100.0	21 100.0	11 100.0	9 100.0	4 100.0	3 100.0

132



NUMBER AND PERCENTAGE OF BUILDINGS OF MIDDLE SCHOOLS IN EAST TENNESSEE
USING SPECIFIED TYPES OF HEATING, COOLING, AND LIGHTING EQUIPMENT

HEATING EQUIPMENT

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
JUST CENTRAL	56 91.8	24 85.7	20 95.2	11 100.0	4 44.4	1 25.0	0 0.0
JUST SPACE	5 8.2	4 14.3	1 4.8	0 0.0	5 55.6	3 75.0	1 33.3
CENTRAL & SPACE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
NO RESPONSE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	2 66.7
TOTAL	61 100.0	28 100.0	21 100.0	11 100.0	9 100.0	4 100.0	3 100.0

COOLING EQUIPMENT

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
JUST CENTRAL	12 19.7	3 10.7	1 4.8	0 0.0	2 22.2	2 50.0	1 33.3
JUST WINDOW UNIT	9 14.8	7 25.0	1 4.8	2 18.2	3 33.3	0 0.0	0 0.0
CENTRAL & WINDOW	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
NO MECHANICAL	40 65.6	18 64.3	19 90.5	9 81.8	4 44.4	2 50.0	2 66.7
TOTAL	61 100.0	28 100.0	21 100.0	11 100.0	9 100.0	4 100.0	3 100.0

WINDOW UNIT COOLING

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
ALL ROOMS	4 44.4	1 14.3	1 100.0	0 0.0	2 66.7	0 0.0	0 0.0
SELECTED ROOMS	3 33.3	4 57.1	0 0.0	2 100.0	0 0.0	0 0.0	0 0.0
NO RESPONSE	2 22.2	2 28.6	0 0.0	0 0.0	1 33.3	0 0.0	0 0.0
TOTAL	9 100.0	7 100.0	1 100.0	2 100.0	3 100.0	0 100.0	0 100.0

LIGHTING EQUIPMENT

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
INCANDESCENT	18 29.5	11 39.3	7 33.3	6 54.5	2 22.2	0 0.0	0 0.0
FLUORESCENT	37 60.7	13 46.4	12 57.1	5 45.5	6 66.7	2 50.0	1 33.3
BOTH	6 9.8	3 10.7	2 9.5	0 0.0	0 0.0	0 0.0	0 0.0
OTHER	2 3.3	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
NO RESPONSE	0 0.0	1 3.6	0 0.0	0 0.0	1 11.1	2 50.0	2 66.7
TOTAL	61 100.0	28 100.0	21 100.0	11 100.0	9 100.0	4 100.0	3 100.0

NUMBER AND PERCENTAGE OF MIDDLE SCHOOLS IN EAST TENNESSEE
USING SPECIFIED SOURCES OF WATER SUPPLY

	NUMBER	PERCENTAGE
WATER UTILITY	61	100.0
PUMP ON PROPERTY	0	0.0
CTHER (WELLS, ETC.)	0	0.0
NO RESPONSE	0	0.0
TOTAL	61	100.0

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

NUMBER AND PERCENTAGE OF PRINCIPALS OF MIDDLE SCHOOLS IN EAST TENNESSEE
EXPRESSING SPECIFIED FACILITY NEEDS

	NUMBER	PERCENTAGE
MAINTENANCE	26	42.6
CONSTRUCTION	27	44.3
BOTH	2	3.3
NEITHER (INCLUDING NO RESPONSE)	6	9.8
TOTAL	61	100.0

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

PLANT PROFILES: MIDDLE SCHOOLS IN EAST TENNESSEE

CRITERION	ADEQUATE		SUBSTANDARD	
	NUMBER	PERCENTAGE	NUMBER	PERCENTAGE
1. ENROLLMENT/CAPACITY RATIO <= 1	39	67.2	19	32.8
2. MEETS NATIONAL SCHOOL SIZE STANDARDS	33	55.0	27	45.0
3. MEETS NATIONAL SITE SIZE STANDARDS	7	11.9	52	88.1
4. ORIGINAL BUILDING 30 YRS OLD OR LESS	34	57.6	25	42.4
5. NO TEMPORARY STRUCTURES	50	82.0	11	18.0
6. NO BASEMENT USED FOR INSTRUCTION	45	73.8	16	26.2
7. NO BUILDING OF WOOD EXCLUSIVELY	56	91.8	5	8.2
8. CENTRAL HEATING IN ORIGINAL BUILDING	56	91.8	5	8.2
9. CENTRAL AIR OR ALL WINDOW UNITS	17	27.9	35	57.4
10. COMPLETE FLUORESCENT LIGHTING	39	63.9	9	14.8
11. USE OF WATER UTILITY	61	100.0	0	0.0
12. MEETS 7 OF 11 OF ABOVE CRITERIA	43	70.5	3	4.9

134

CATA DISPLAY 3.11

SECONDARY SCHOOLS IN EAST TENNESSEE

96 RESPONDENTS

NUMBER AND PERCENTAGE OF SECONDARY SCHOOLS IN EAST TENNESSEE USING SPECIFIED PROPORTIONS OF SCHOOL PLANT CAPACITY

ENROLLMENT/CAPACITY RATIO

ENROLLMENT/CAPACITY RATIO	NUMBER	PERCENTAGE	
ABOVE 0.0- 0.5	2	2.1	*
ABOVE 0.5- 0.8	14	14.6	*****
ABOVE 0.8- 1.0	53	55.2	*****
ABOVE 1.0- 1.5	25	26.0	*****
ABOVE 1.5- 2.0	2	2.1	*
ABOVE 2.0-13.0	0	0.0	
TOTAL	96	100.0	

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

SCHOOLS THAT EXCEED CAPACITY: 27 28.1%

NUMBER AND PERCENTAGE OF SECONDARY SCHOOLS IN EAST TENNESSEE HAVING SITES OF SPECIFIED SIZES (IN ACRES)

ACRES	NUMBER	PERCENTAGE	
0- LESS THAN 1	0	0.0	
1- LESS THAN 5	3	3.2	*
5- LESS THAN 10	13	13.8	*****
10- LESS THAN 20	29	30.9	*****
20- LESS THAN 30	23	24.5	*****
30- LESS THAN 50	18	19.1	*****
50- LESS THAN 100	8	8.5	****
TOTAL	94	100.0	

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

MEDIAN SCHOOL SITE SIZE IS 20 ACRES

NUMBER AND PERCENTAGE OF SECONDARY SCHOOLS IN EAST TENNESSEE MEETING SITE SIZE REQUIREMENTS: 13 13.8%

NUMBER AND PERCENTAGE OF BUILDINGS OF SECONDARY SCHOOLS IN EAST TENNESSEE OCCURRING AT SPECIFIED STAGES OF THE SCHOOL LIFE CYCLE

AGE (IN YEARS)	ORIGINAL		ADD1		ADD2		ADD3		TEMP1		TEMP2		TEMP3	
60 OR OVER	1	1.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
40- LESS THAN 60	13	14.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
20- LESS THAN 40	27	29.0	11	25.0	2	6.9	2	14.3	0	0.0	0	0.0	0	0.0
LESS THAN 20	52	55.9	33	75.0	27	93.1	12	85.7	16	100.0	7	100.0	4	100.0
TOTAL	93	100.0	44	100.0	29	100.0	14	100.0	16	100.0	7	100.0	4	100.0

NUMBER AND PERCENTAGE OF BUILDINGS OF SECONDARY SCHOOLS IN EAST TENNESSEE CONSTRUCTED OR ADDED IN SPECIFIED DECADES, 1840-1973

	ORIGINAL		ADD1		ADD2		ADD3		TEMP1		TEMP2		TEMP3	
AFTER 1840 - 1870	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1870 - 1880	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1880 - 1890	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1890 - 1900	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1900 - 1910	1	1.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1910 - 1920	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1920 - 1930	10	10.8	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1930 - 1940	9	9.7	2	4.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1940 - 1950	13	14.0	5	11.4	2	6.9	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1950 - 1960	18	19.4	17	38.6	6	20.7	3	21.4	2	12.5	0	0.0	0	0.0
AFTER 1960 - 1970	31	33.3	18	40.9	16	55.2	8	57.1	10	62.5	5	71.4	2	50.0
AFTER 1970 - 1973	11	11.8	2	4.5	5	17.2	3	21.4	4	25.0	2	28.6	2	50.0
TOTAL	93	100.0	44	100.0	29	100.0	14	100.0	16	100.0	7	100.0	4	100.0

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
OLDEST STRUCTURE	1910	1934	1948	1953	1955	1962	1964
MEAN YEAR OF CONSTRUCTION	1954	1958	1962	1964	1967	1967	1969

NUMBER AND PERCENTAGE OF SECONDARY SCHOOLS IN EAST TENNESSEE HAVING SPECIFIED NUMBERS OF ADDITIONAL AND TEMPORARY STRUCTURES

	ADDITIONS		TEMPORARIES	
0	47	49.0	76	79.2
1	22	22.9	14	14.6
2	16	16.7	5	5.2
3	11	11.5	1	1.0
TOTAL	96	100.0	96	100.0

NUMBER AND PERCENTAGE OF SECONDARY SCHOOLS IN EAST TENNESSEE OCCURRING IN SPECIFIED SCHOOL ENROLLMENT CATEGORIES

ENROLLMENT	NUMBER	PERCENTAGE	
0- LESS THAN 350	8	8.3	****
350- LESS THAN 700	34	35.4	*****
700- LESS THAN 9999	54	56.3	*****
TOTAL	96	100.0	-----
			10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

NUMBER AND PERCENTAGE OF BUILDINGS OF SECONDARY SCHOOLS IN EAST TENNESSEE
UTILIZING BASEMENTS FOR INSTRUCTION OR OTHER PROGRAMS INVOLVING STUDENTS

ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
12 12.5	4 9.1	4 13.8	1 7.1	1 6.3	0 0.0	0 0.0

SCHOOLS USING BASEMENT OF SOME STRUCTURE FOR INSTRUCTION: 18 18.8%

NUMBER AND PERCENTAGE OF BUILDINGS OF SECONDARY SCHOOLS IN EAST TENNESSEE
HAVING SPECIFIED NUMBERS OF STORIES (EXCLUDING BASEMENT)

NUMBER OF STORIES	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
1 STORY	46 47.9	29 65.9	18 62.1	12 85.7	15 93.8	6 85.7	4 100.0
2 STORIES	37 38.5	13 29.5	9 31.0	2 14.3	1 6.3	1 14.3	0 0.0
3 STORIES	12 12.5	2 4.5	2 6.9	0 0.0	0 0.0	0 0.0	0 0.0
4 STORIES	1 1.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
TOTAL	96 100.0	44 100.0	29 100.0	14 100.0	16 100.0	7 100.0	4 100.0

TWO STORIES OR MORE BUILT BEFORE 1920	2 2.1	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
ALL WOOD STRUCTURES OF MORE THAN ONE STORY	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0

NUMBER AND PERCENTAGE OF BUILDINGS OF SECONDARY SCHOOLS IN EAST TENNESSEE
USING SELECTED EXTERIOR CONSTRUCTION MATERIALS

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
BRICK	78 81.3	37 84.1	22 75.9	8 57.1	2 12.5	0 0.0	0 0.0
WOOD	0 0.0	0 0.0	0 0.0	0 0.0	7 43.8	4 57.1	2 50.0
METAL	1 1.0	0 0.0	1 3.4	1 7.1	4 25.0	1 14.3	2 50.0
STONE	2 2.1	1 2.3	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
CONCRETE	0 0.0	0 0.0	1 3.4	2 14.3	0 0.0	0 0.0	0 0.0
OTHER	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD	1 1.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, METAL	2 2.1	1 2.3	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, STONE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, CONCRETE	5 5.2	2 4.5	2 6.9	2 14.3	0 0.0	0 0.0	0 0.0
BRICK, OTHER	1 1.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD, METAL	0 0.0	1 2.3	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD, CONCRETE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, METAL, CONCRETE	3 3.1	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, STONE, CONCRETE	1 1.0	1 2.3	1 3.4	1 7.1	0 0.0	0 0.0	0 0.0
BRICK, WOOD, METAL, CONCRETE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
ALL OTHER COMBINATIONS	2 2.1	0 0.0	0 0.0	0 0.0	1 6.3	0 0.0	0 0.0
NO RESPONSE	0 0.0	1 2.3	2 6.9	0 0.0	2 12.5	2 28.6	0 0.0
TOTAL	96 100.0	44 100.0	29 100.0	14 100.0	16 100.0	7 100.0	4 100.0

NUMBER AND PERCENTAGE OF BUILDINGS OF SECONDARY SCHOOLS IN EAST TENNESSEE
USING SPECIFIED TYPES OF HEATING, COOLING, AND LIGHTING EQUIPMENT

HEATING EQUIPMENT

	ORIGINAL		ADD1		ADD2		ADD3		TEMP1		TEMP2		TEMP3	
JUST CENTRAL	81	84.4	37	84.1	23	79.3	12	85.7	4	25.0	1	14.3	0	0.0
JUST SPACE	7	7.3	3	6.8	4	13.8	2	14.3	10	62.5	4	57.1	4	100.0
CENTRAL & SPACE	8	8.3	2	4.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
NO RESPONSE	0	0.0	2	4.5	2	6.9	0	0.0	2	12.5	2	28.6	0	0.0
TOTAL	96	100.0	44	100.0	29	100.0	14	100.0	16	100.0	7	100.0	4	100.0

COOLING EQUIPMENT

	ORIGINAL		ADD1		ADD2		ADD3		TEMP1		TEMP2		TEMP3	
JUST CENTRAL	25	26.0	7	15.9	7	24.1	0	0.0	4	25.0	1	14.3	0	0.0
JUST WINDOW UNIT	20	20.8	13	29.5	3	10.3	0	0.0	2	12.5	0	0.0	2	50.0
CENTRAL & WINDOW	2	2.1	1	2.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
NO MECHANICAL	49	51.0	23	52.3	19	65.5	14	100.0	10	62.5	6	85.7	2	50.0
TOTAL	96	100.0	44	100.0	29	100.0	14	100.0	16	100.0	7	100.0	4	100.0

WINDOW UNIT COOLING

	ORIGINAL		ADD1		ADD2		ADD3		TEMP1		TEMP2		TEMP3	
ALL ROOMS	4	18.2	3	21.4	0	0.0	0	0.0	0	0.0	0	0.0	1	50.0
SELECTED ROOMS	10	45.5	6	42.9	3	100.0	0	0.0	1	50.0	0	0.0	0	0.0
NO RESPONSE	8	36.4	5	35.7	0	0.0	0	0.0	1	50.0	0	0.0	1	50.0
TOTAL	22	100.0	14	100.0	3	100.0	0	100.0	2	100.0	0	100.0	2	100.0

LIGHTING EQUIPMENT

	ORIGINAL		ADD1		ADD2		ADD3		TEMP1		TEMP2		TEMP3	
INCANDESCENT	28	29.2	16	36.4	9	31.0	5	35.7	1	6.3	0	0.0	0	0.0
FLUORESCENT	63	65.6	25	56.8	16	55.2	8	57.1	14	87.5	5	71.4	4	100.0
BOTH	3	3.1	1	2.3	1	3.4	0	0.0	0	0.0	0	0.0	0	0.0
OTHER	1	1.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
NO RESPONSE	1	1.0	2	4.5	3	10.3	1	7.1	1	6.3	2	28.6	0	0.0
TOTAL	96	100.0	44	100.0	29	100.0	14	100.0	16	100.0	7	100.0	4	100.0

NUMBER AND PERCENTAGE OF SECONDARY SCHOOLS IN EAST TENNESSEE
USING SPECIFIED SOURCES OF WATER SUPPLY

	NUMBER	PERCENTAGE	
WATER UTILITY	92	95.8	*****
PUMP ON PROPERTY	4	4.2	**
OTHER (WELLS, ETC.)	0	0.0	
NO RESPONSE	0	0.0	
TOTAL	96	100.0	-----

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

NUMBER AND PERCENTAGE OF PRINCIPALS OF SECONDARY SCHOOLS IN EAST TENNESSEE
EXPRESSING SPECIFIED FACILITY NEEDS

	NUMBER	PERCENTAGE	
MAINTENANCE	46	47.9	*****
CONSTRUCTION	40	41.7	*****
BOTH	1	1.0	
NEITHER (INCLUDING NO RESPONSE)	9	9.4	****
TOTAL	96	100.0	-----

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

PLANT PROFILES: SECONDARY SCHOOLS IN EAST TENNESSEE

CRITERION	ADEQUATE		SUBSTANDARD	
	NUMBER	PERCENTAGE	NUMBER	PERCENTAGE
1. ENROLLMENT/CAPACITY RATIO ≤ 1	69	71.9	27	28.1
2. MEETS NATIONAL SCHOOL SIZE STANDARDS	61	63.5	35	36.5
3. MEETS NATIONAL SITE SIZE STANDARDS	13	13.8	81	86.2
4. ORIGINAL BUILDING 30 YRS OLD OR LESS	72	77.4	21	22.6
5. NO TEMPORARY STRUCTURES	76	79.2	20	20.8
6. NO BASEMENT USED FOR INSTRUCTION	78	81.3	18	18.8
7. NO BUILDING OF WOOD EXCLUSIVELY	88	91.7	8	8.3
8. CENTRAL HEATING IN ORIGINAL BUILDING	89	92.7	7	7.3
9. CENTRAL AIR OR ALL WINDOW UNITS	32	33.3	34	35.4
10. COMPLETE FLUORESCENT LIGHTING	58	60.4	16	16.7
11. USE OF WATER UTILITY	92	95.8	4	4.2
12. 7 OF 11 OF ABOVE CRITERIA	72	75.0	2	2.1

DATA DISPLAY 3.12

COMBINED SCHOOLS IN EAST TENNESSEE

19 RESPONDENTS

NUMBER AND PERCENTAGE OF COMBINED SCHOOLS IN EAST TENNESSEE
USING SPECIFIED PROPORTIONS OF SCHOOL PLANT CAPACITY

ENROLLMENT/CAPACITY

ENROLLMENT/CAPACITY RATIO	NUMBER	PERCENTAGE	
ABOVE 0.0- 0.5	0	0.0	
ABOVE 0.5- 0.8	4	22.2	*****
ABOVE 0.8- 1.0	7	38.9	*****
ABOVE 1.0- 1.5	7	38.9	*****
ABOVE 1.5- 2.0	0	0.0	
ABOVE 2.0-13.0	0	0.0	
TOTAL	18	100.0	-----

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

SCHOOLS THAT EXCEED CAPACITY: 7 38.9%

NUMBER AND PERCENTAGE OF COMBINED SCHOOLS IN EAST TENNESSEE
HAVING SITES OF SPECIFIED SIZES (IN ACRES)

ACRES	NUMBER	PERCENTAGE	
0- LESS THAN 1	0	0.0	
1- LESS THAN 5	3	18.8	*****
5- LESS THAN 10	6	37.5	*****
10- LESS THAN 20	6	37.5	*****
20- LESS THAN 30	1	6.3	***
30- LESS THAN 50	0	0.0	
50- LESS THAN 100	0	0.0	
TOTAL	16	100.0	-----

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

MEDIAN SCHOOL SITE SIZE IS 8 ACRES

NUMBER AND PERCENTAGE OF COMBINED SCHOOLS IN EAST TENNESSEE
MEETING SITE SIZE REQUIREMENTS: 0 0.0%

140



NUMBER AND PERCENTAGE OF BUILDINGS OF COMBINED SCHOOLS IN EAST TENNESSEE OCCURRING AT SPECIFIED STAGES OF THE SCHOOL LIFE CYCLE

AGE (IN YEARS)	ORIGINAL		ADD1		ADD2		ADD3		TEMP1		TEMP2		TEMP3	
60 OR OVER	1	5.6	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
40- LESS THAN 60	10	55.6	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
20- LESS THAN 40	4	22.2	9	69.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
LESS THAN 20	3	16.7	4	30.8	9	100.0	4	100.0	6	100.0	3	100.0	1	100.0
TOTAL	18	100.0	13	100.0	9	100.0	4	100.0	6	100.0	3	100.0	1	100.0

NUMBER AND PERCENTAGE OF BUILDINGS OF COMBINED SCHOOLS IN EAST TENNESSEE CONSTRUCTED OR ADDED IN SPECIFIED DECADES, 1840-1973

	ORIGINAL		ADD1		ADD2		ADD3		TEMP1		TEMP2		TEMP3	
AFTER 1840 - 1870	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1870 - 1880	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1880 - 1890	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1890 - 1900	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1900 - 1910	1	5.6	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1910 - 1920	3	16.7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1920 - 1930	7	38.9	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1930 - 1940	2	11.1	1	7.7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1940 - 1950	1	5.6	6	46.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1950 - 1960	2	11.1	4	30.8	7	77.8	1	25.0	0	0.0	0	0.0	0	0.0
AFTER 1960 - 1970	2	11.1	2	15.4	2	22.2	3	75.0	3	50.0	1	33.3	1	100.0
AFTER 1970 - 1973	0	0.0	0	0.0	0	0.0	0	0.0	3	50.0	2	66.7	0	0.0
TOTAL	18	100.0	13	100.0	9	100.0	4	100.0	6	100.0	3	100.0	1	100.0

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
OLDEST STRUCTURE	1908	1938	1954	1958	1967	1969	1970
MEAN YEAR OF CONSTRUCTION	1933	1952	1958	1965	1969	1970	1970

NUMBER AND PERCENTAGE OF COMBINED SCHOOLS IN EAST TENNESSEE HAVING SPECIFIED NUMBERS OF ADDITIONAL AND TEMPORARY STRUCTURES

	ADDITIONS		TEMPORARIES	
0	5	26.3	12	63.2
1	5	26.3	5	26.3
2	6	31.6	1	5.3
3	3	15.8	1	5.3
TOTAL	19	100.0	19	100.0

NUMBER AND PERCENTAGE OF COMBINED SCHOOLS IN EAST TENNESSEE OCCURRING IN SPECIFIED SCHOOL ENROLLMENT CATEGORIES

ENROLLMENT	NUMBER	PERCENTAGE	
0- LESS THAN 350	3	15.8	*****
350- LESS THAN 700	14	73.7	*****
700- LESS THAN 9999	2	10.5	*****
TOTAL	19	100.0	

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%



NUMBER AND PERCENTAGE OF BUILDINGS OF COMBINED SCHOOLS IN EAST TENNESSEE
UTILIZING BASEMENTS FOR INSTRUCTION OR OTHER PROGRAMS INVOLVING STUDENTS

ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
1 5.3	2 15.4	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0

SCHOOLS USING BASEMENT OF SOME STRUCTURE FOR INSTRUCTION: 3 15.8%

NUMBER AND PERCENTAGE OF BUILDINGS OF COMBINED SCHOOLS IN EAST TENNESSEE
HAVING SPECIFIED NUMBERS OF STORIES (EXCLUDING BASEMENT)

NUMBER OF STORIES	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
1 STORY	11 57.9	8 61.5	6 66.7	3 75.0	6 100.0	3 100.0	1 100.0
2 STORIES	7 36.8	5 38.5	3 33.3	1 25.0	0 0.0	0 0.0	0 0.0
3 STORIES	1 5.3	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
4 STORIES	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
TOTAL	19 100.0	13 100.0	9 100.0	4 100.0	6 100.0	3 100.0	1 100.0

TWO STORIES OR MORE BUILT BEFORE 1920
5 26.3 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0

ALL WOOD STRUCTURES OF MORE THAN ONE STORY
1 5.3 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0 0 0.0

NUMBER AND PERCENTAGE OF BUILDINGS OF COMBINED SCHOOLS IN EAST TENNESSEE
USING SELECTED EXTERIOR CONSTRUCTION MATERIALS

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
BRICK	15 78.9	11 84.6	9 100.0	4 100.0	0 0.0	0 0.0	0 0.0
WOOD	1 5.3	0 0.0	0 0.0	0 0.0	3 50.0	2 66.7	1 100.0
METAL	0 0.0	0 0.0	0 0.0	0 0.0	2 33.3	1 33.3	0 0.0
STONE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
CONCRETE	0 0.0	1 7.7	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
OTHER	0 0.0	0 0.0	0 0.0	0 0.0	1 16.7	0 0.0	0 0.0
BRICK, WOOD	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, METAL	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, STONE	1 5.3	1 7.7	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, CONCRETE	1 5.3	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, OTHER	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD, METAL	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD, CONCRETE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, METAL, CONCRETE	1 5.3	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, STONE, CONCRETE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD, METAL, CONCRETE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
ALL OTHER COMBINATIONS	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
NO RESPONSE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
TOTAL	19 100.0	13 100.0	9 100.0	4 100.0	6 100.0	3 100.0	1 100.0

NUMBER AND PERCENTAGE OF BUILDINGS OF COMBINED SCHOOLS IN EAST TENNESSEE
USING SPECIFIED TYPES OF HEATING, COOLING, AND LIGHTING EQUIPMENT

HEATING EQUIPMENT

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
JUST CENTRAL	16 84.2	10 76.9	6 66.7	3 75.0	1 16.7	0 0.0	0 0.0
JUST SPACE	1 5.3	0 0.0	0 0.0	1 25.0	5 83.3	3 100.0	1 100.0
CENTRAL & SPACE	1 5.3	1 7.7	1 11.1	0 0.0	0 0.0	0 0.0	0 0.0
NO RESPONSE	1 5.3	2 15.4	2 22.2	0 0.0	0 0.0	0 0.0	0 0.0
TOTAL	19 100.0	13 100.0	9 100.0	4 100.0	6 100.0	3 100.0	1 100.0

COOLING EQUIPMENT

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
JUST CENTRAL	0 0.0	0 0.0	0 0.0	0 0.0	2 33.3	1 33.3	0 0.0
JUST WINDOW UNIT	3 15.8	2 15.4	1 11.1	1 25.0	1 16.7	1 33.3	1 100.0
CENTRAL & WINDOW	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
NO MECHANICAL	16 84.2	11 84.6	8 88.9	3 75.0	3 50.0	1 33.3	0 0.0
TOTAL	19 100.0	13 100.0	9 100.0	4 100.0	6 100.0	3 100.0	1 100.0

WINDOW UNIT COOLING

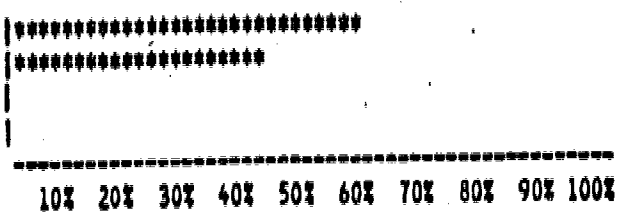
	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
ALL ROOMS	1 33.3	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
SELECTED ROOMS	1 33.3	1 50.0	0 0.0	1 100.0	0 0.0	0 0.0	0 0.0
NO RESPONSE	1 33.3	1 50.0	1 100.0	0 0.0	1 100.0	1 100.0	1 100.0
TOTAL	3 100.0	2 100.0	1 100.0	1 100.0	1 100.0	1 100.0	1 100.0

LIGHTING EQUIPMENT

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
INCANDESCENT	10 52.6	7 53.8	7 77.8	1 25.0	1 16.7	0 0.0	0 0.0
FLUORESCENT	8 42.1	6 46.2	2 22.2	3 75.0	5 83.3	3 100.0	1 100.0
BOTH	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
OTHER	1 5.3	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
NO RESPONSE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
TOTAL	19 100.0	13 100.0	9 100.0	4 100.0	6 100.0	3 100.0	1 100.0

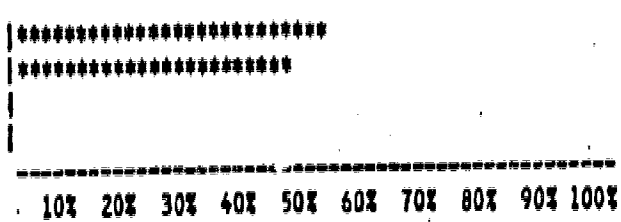
NUMBER AND PERCENTAGE OF COMBINED SCHOOLS IN EAST TENNESSEE
USING SPECIFIED SOURCES OF WATER SUPPLY.

	NUMBER	PERCENTAGE
WATER UTILITY	11	57.9
PUMP ON PROPERTY	8	42.1
OTHER (WELLS, ETC.)	0	0.0
NO RESPONSE	0	0.0
TOTAL	19	100.0



NUMBER AND PERCENTAGE OF PRINCIPALS OF COMBINED SCHOOLS IN EAST TENNESSEE
EXPRESSING SPECIFIED FACILITY NEEDS

	NUMBER	PERCENTAGE
MAINTENANCE	10	52.6
CONSTRUCTION	9	47.4
BOTH	0	0.0
NEITHER (INCLUDING NO RESPONSE)	0	0.0
TOTAL	19	100.0



PLANT PROFILES: COMBINED SCHOOLS IN EAST TENNESSEE

CRITERION	ADEQUATE		SUBSTANDARD	
	NUMBER	PERCENTAGE	NUMBER	PERCENTAGE
1. ENROLLMENT/CAPACITY RATIO \leq 1	11	61.1	7	38.9
2. MEETS NATIONAL SCHOOL SIZE STANDARDS	17	89.5	2	10.5
3. MEETS NATIONAL SITE SIZE STANDARDS	0	0.0	16	100.0
4. ORIGINAL BUILDING 30 YRS OLD OR LESS	5	27.8	13	72.2
5. NO TEMPORARY STRUCTURES	12	63.2	7	36.8
6. NO BASEMENT USED FOR INSTRUCTION	16	84.2	3	15.8
7. NO BUILDING OF WOOD EXCLUSIVELY	15	78.9	4	21.1
8. CENTRAL HEATING IN ORIGINAL BUILDING	17	89.5	2	10.5
9. CENTRAL AIR OR ALL WINDOW UNITS	1	5.3	14	73.7
10. COMPLETE FLUORESCENT LIGHTING	7	36.8	8	42.1
11. USE OF WATER UTILITY	11	57.9	8	42.1
12. MEETS 7 OF 11 OF ABOVE CRITERIA	6	31.6	1	5.3

144

SECTION 4

SCHOOL PLANT DATA FOR TENNESSEE SCHOOLS CATEGORIZED BY SIZE, ORGANIZATIONAL LEVEL, AND TYPE OF SYSTEM

THE DATA CATEGORIES

Section 2 of this report included a presentation of school plant data pertaining to the category 'all Tennessee schools'. A detailed discussion of questionnaire items and the bases for interpreting responses to these items accompanied this presentation. The reader is urged to refer often to Section 2 for guidance in interpreting material in Section 4 since this section consists primarily of Summary Tables and Data Displays (see explanations below) in twenty-four separate school categories. Figure 4.1 illustrates the construction of these categories, using three sizes,¹ four organizational levels, and two types of school system. (Precise definitions of organizational levels and types of systems are given in Section 1 under "School Classification System".) The figure also contains information on the number of schools in each category that are represented in the survey by usable questionnaires.

(Since no information on current enrollment was included on eight questionnaires, the total number of schools that could be classified for this section of the analysis was 1443.)

Figure 4.1 Number of Survey Respondents in Each of Twenty-Four School Categories

COUNTY SYSTEM												CITY, TOWN, AND SPECIAL DISTRICT SYSTEM											
Elem.			Middle			Secondary			Combined			Elem.			Middle			Secondary			Combined		
S	M	L ¹	S	M	L	S	M	L	S	M	L	S	M	L	S	M	L	S	M	L	S	M	L
368	269	78	6	40	46	18	72	91	15	41	5	72	149	52	5	25	29	0	10	41	2	7	2
Total for County: 1049												Total for City/Spec.: 394											

¹The three sizes are: small-enrollment below 350, medium-350-699, and large-700 and above.

There was a close correspondence between the percentage of Tennessee schools actually located in county and in city/special district systems and the percentage of schools in each of these system types represented in the survey. In the State 73.5 percent of the public schools were in county systems in 1973; 26.5 percent were in city/special district systems. In this survey 72.6 percent of the schools represented were in county systems, and 27.4 percent were in city/special district systems.

The precision with which the survey sample represented the State in terms of proportion of schools in each Grand Division and in each school organizational level was described in Section 3. Unfortunately, there was no readily available means for checking the school size categories to see how representative of the State the survey sample might have been with regard to size.

DATA DISPLAYS DEFINED

Section 4 contains twenty-four Data Displays: one for each combination of three size categories, four organizational levels, and two types of school system. As in Section 3 each Data Display consists of statistical summaries for each questionnaire item, and plant profiles which indicate how many and what percentage of the schools in the category were judged 'adequate' or 'substandard' on the basis of twelve specified criteria. For convenience 'adequate' and 'substandard' ratings were combined in a single table even though a school not rated 'adequate' on Criterion 9, 10, or 12 was not necessarily 'substandard'. (Thus summing 'adequate' and 'substandard' ratings for Criterion 9, 10, or 12 may not equal 100 percent.)

The form and order of presentation of figures and tables in the Data Displays of Section 4 are identical to the form and order utilized in Section 3 and almost the same as that used in Section 2.

SUMMARY TABLES DEFINED

In order to provide some frame of reference for interpreting the plant profile statistics included in the Data Display for each school category, the Data Displays are preceded in this section by a set of Summary Tables. These tables summarize statistics on each plant profile criterion across all twenty-four school categories. Below each table is a set of reference points for the criterion:

- 1) School category having the highest percentage of 'adequate' plants
- 2) School category having the highest percentage of 'substandard' plants
- 3) Percentage of all Tennessee schools having 'adequate' ratings
- 4) Percentage of all Tennessee schools having 'substandard' ratings.

In compiling the sets of reference points no percentages were taken from categories containing less than 1 percent of the survey sample, i.e., fewer than 15 respondents, because it was felt that these percentages would be misleading.

Summary Tables 4.12, 4.13, and 4.14 permit broader comparisons than the other tables in Section 4. These tables contain information on Criterion 12, the standard which summarizes all other criteria for 'adequate' and 'substandard' school plants.

Summary Table 4.12

Summary Table 4.12 contains the information required for a general statement about the adequacy of Tennessee's public school plants categorized by size, organizational level, and type of system. According to ratings on Criterion 12, medium sized middle schools in city/special district systems included the highest percentage (92) of 'adequate' school plants in 1973. The highest percentage (13.3) of 'substandard' plants was found among small combined schools in county systems.

Summary Table 4.13

Summary Table 4.13 reveals that schools of medium size, i.e., those with an enrollment on September 30, 1972 of 350-699 students, had a greater percentage (68) of 'adequate' plants than did large schools (60.5 percent) or small schools (48.4 percent). The largest percentage (6) of 'substandard' plants was among small schools (enrollment below 350), followed by large schools (4.1 percent). The smallest percentage (2.6) of 'substandard' plants was in the 'medium' size category.

Summary Table 4.14

The subject of Summary Table 4.14 is a comparison of 'adequate' and 'substandard' school plant ratings by type of school system. City/special district systems proved superior to county systems with regard to percentage of 'adequate' school plants: 75.6 percent to 53.6 percent. County systems, as would be expected, had the greater percentage of 'substandard' plants: 4.8 percent compared to 2.3 percent for city/special district systems.

USING DATA DISPLAYS AND SUMMARY TABLES

Using three pieces of information: (1) size, (2) organizational level, and (3) type of school system, any public school in Tennessee can be placed in one of the twenty-four data categories utilized in Section 4. Precise definitions of these identifiers appear in Section 1 under "School Classification System".

Once a school has been classified, school plant information on the class to which it belongs may be found in the appropriate Data Display.

(Consult Table of Contents for page number.) Information categories in each

Data Display include:

- 1) Number and percentage of schools in the category using specified proportions of school plant capacity
- 2) Number and percentage of schools that exceed capacity
- 3) Number and percentage of schools having sites of specified sizes (in acres)
- 4) Median school site size
- 5) Number and percentage of schools meeting site size requirements
- 6) Number and percentage of buildings occurring at specified stages of the school life cycle
- 7) Number and percentage of school buildings constructed or added in specified decades, 1840-1973
- 8) Year of construction of oldest structure
- 9) Mean year of construction
- 10) Number and percentage of schools having specified numbers of additional and temporary structures
- 11) Number and percentage of buildings using basements for instruction or other programs involving students
- 12) Number and percentage of schools using the basement of some structure for instruction
- 13) Number and percentage of buildings having specified numbers of stories (excluding basement)
- 14) Number and percentage of buildings of two or more stories built before 1920
- 15) Number and percentage of all wood structures of more than one story
- 16) Number and percentage of buildings using selected exterior construction materials

- 17) Number and percentage of buildings using specified types of heating, cooling, and lighting equipment
- 18) Number and percentage of schools using specified sources of water supply
- 19) Number and percentage of principals expressing specified facility needs
- 20) Plant profiles: number and percentage of schools having 'adequate' or 'substandard' plants according to specified criteria

For comparative data on the 'adequate' and 'substandard' plant profiles the reader is urged to refer to the Summary Tables immediately preceding the Data Displays. Here are identified for each of the twelve plant profile criteria: (1) the highest percentage of 'adequate' plants and (2) the highest percentage of 'substandard' plants, among the twenty-four specified categories; and (3) the percentage of 'adequate' and (4) 'substandard' plants for all Tennessee schools (an average).

The number of respondents in the category is printed just below the title of each of the twenty-four Data Displays. All percentages in a given Data Display were calculated on the basis of this number of respondents unless a smaller figure appears as 'Total' for an item. The smaller figures were used to calculate percentages for items on which the response rate was less than 100 percent.

A few of the summary statements appearing below the tables contain a percentage figure that differs slightly from the percentage that is obtained by summing figures in the related table. This discrepancy is due to the rounding of decimal figures in the table.

PREPARATION AND POSITIONING OF DATA DISPLAYS

In the interests of accuracy and economy, all Data Displays were prepared by an IBM 360/65 computer. Pages produced by the computer were reduced in

size for placement on an 8 1/2" by 11" sheet. Both Summary Tables and Data Display: were positioned lengthwise on the page to facilitate referral from one to the other.

SUMMARY TABLES

242

152

Summary Table 4.1 Percentage of Tennessee Schools in Each of Twenty-Four Categories Rated 'Adequate' or 'Substandard' According to Criterion 1 (Enrollment/Capacity ratio less than or equal to 1)

System Type	Organizational Level	Size	Rating	
			Adequate	Substandard
County	Elementary	Small (368)*	85.4%	14.6%
		Medium (269)	61.0	39.0
		Large (78)	38.2	61.8
	Middle	Small** (6)	100.0	0.0
		Medium (40)	64.1	35.9
		Large (46)	48.9	51.1
	Secondary	Small (18)	83.3	16.7
		Medium (72)	62.9	37.1
		Large (91)	52.7	47.3
	Combined	Small (15)	92.9	7.1
		Medium (41)	60.5	39.5
		Large** (5)	20.0	80.0
City/Special	Elementary	Small (72)	95.8	4.2
		Medium (149)	94.5	5.5
		Large (52)	74.5	25.5
	Middle	Small** (5)	100.0	0.0
		Medium (25)	79.2	20.8
		Large (29)	86.2	13.8
	Secondary	Small** (0)	--	--
		Medium** (10)	70.0	30.0
		Large (41)	82.1	17.9
	Combined	Small** (2)	100.0	0.0
		Medium** (7)	57.1	42.9
		Large** (2)	50.0	50.0

Criterion 1 Reference Points

- 1) Highest Percentage of Adequate Plants: 95.8 (Small Elementary Schools in City/Special Systems)
- 2) Highest Percentage of Substandard Plants: 61.8 (Large Elementary Schools in County Systems)
- 3) Percentage of Adequate Plants for All Tennessee Schools: 73.2
- 4) Percentage of Substandard Plants for All Tennessee Schools: 26.8

*Number in parentheses = total number of schools in this category represented in the survey

**Category excluded from consideration in compiling Reference Points since it contains fewer than 15 schools (1 percent of survey respondents)

Summary Table 4.2 Percentage of Tennessee Schools in Each of Twenty-Four Categories Rated 'Adequate' or 'Substandard' According to Criterion 2 (Meets National School Size Standards)

System Type	Organizational Level	Size		Rating	
				Adequate	Substandard
County	Elementary	Small	(368)*	14.7%	85.3%
		Medium	(269)	47.6	52.4
		Large	(78)	0.0	100.0
	Middle	Small**	(6)	33.3	66.7
		Medium	(40)	100.0	0.0
		Large	(46)	0.0	100.0
	Secondary	Small	(18)	44.4	55.6
		Medium	(72)	100.0	0.0
		Large	(91)	41.8	58.2
	Combined	Small	(15)	26.7	73.3
		Medium	(41)	100.0	0.0
		Large**	(5)	80.0	20.0
City/Special	Elementary	Small	(72)	44.4	55.6
		Medium	(149)	51.7	48.3
		Large	(52)	0.0	100.0
	Middle	Small**	(5)	40.0	60.0
		Medium	(25)	100.0	0.0
		Large	(29)	6.9	93.1
	Secondary	Small**	(0)	--	--
		Medium**	(10)	100.0	0.0
		Large	(41)	29.3	70.7
	Combined	Small**	(2)	50.0	50.0
		Medium**	(7)	100.0	0.0
		Large**	(2)	50.0	50.0

Criterion 2 Reference Points

- 1) Highest Percentage of Adequate Plants: 100.0 (Medium Middle, Medium Secondary, Medium Combined Schools in County Systems and Med. Middle Schools in City/Special Systems)
- 2) Highest Percentage of Substandard Plants: 100.0 (Large Elementary and Large Middle Schools in County Systems, and Large Elementary Schools in City/Special Systems)
- 3) Percentage of Adequate Plants for All Tennessee Schools: 38.8
- 4) Percentage of Substandard Plants for All Tennessee Schools: 61.2

*Number in parentheses = total number of schools in this category represented in the survey

**Category excluded from consideration in compiling Reference Points since it contains fewer than 15 schools (1 percent of survey respondents)

Summary Table 4.3 Percentage of Tennessee Schools in Each of Twenty-Four Categories Rated 'Adequate' or 'Substandard' According to Criterion 3 (Meets National Site Size Standards)

System Type	Organizational Level	Size	Rating	
			Adequate	Substandard
County	Elementary	Small (368)*	13.2%	86.8%
		Medium (269)	19.2	80.8
		Large (78)	20.0	80.0
	Middle	Small** (6)	0.0	100.0
		Medium (40)	12.8	87.2
		Large (46)	19.6	80.4
	Secondary	Small (18)	0.0	100.0
		Medium (72)	6.9	93.1
		Large (91)	25.0	75.0
	Combined	Small (15)	0.0	100.0
		Medium (41)	2.6	97.4
		Large** (5)	20.0	80.0
City/Special	Elementary	Small (72)	14.1	85.9
		Medium (149)	26.6	73.4
		Large (52)	19.6	80.4
	Middle	Small** (5)	0.0	100.0
		Medium (25)	20.8	79.2
		Large (29)	10.7	89.3
	Secondary	Small** (0)	--	--
		Medium** (10)	0.0	100.0
		Large (41)	12.5	87.5
	Combined	Small** (2)	0.0	100.0
		Medium** (7)	0.0	100.0
		Large** (2)	0.0	100.0

Criterion 3 Reference Points

- 1) Highest Percentage of Adequate Plants: 26.6 (Medium Elementary Schools in City/Special Systems)
- 2) Highest Percentage of Substandard Plants: 100.0 (Small Secondary and Small Combined Schools in County Systems)
- 3) Percentage of Adequate Plants for All Tennessee Schools: 16.2
- 4) Percentage of Substandard Plants for All Tennessee Schools: 83.8

*Number in parentheses = total number of schools in this category represented in the survey

**Category excluded from consideration in compiling Reference Points since it contains fewer than 15 schools (1 percent of survey respondents)

Summary Table 4.4 Percentage of Tennessee Schools in Each of Twenty-Four Categories Rated 'Adequate' or 'Substandard' According to Criterion 4 (Original Building thirty years old or less)

System Type	Organizational Level	Size	Rating	
			Adequate	Substandard
County	Elementary	Small (368)*	59.7%	40.3%
		Medium (269)	66.2	33.8
		Large (78)	71.8	28.2
	Middle	Small** (6)	16.7	83.3
		Medium (40)	64.1	35.9
		Large (46)	69.6	30.4
	Secondary	Small (18)	70.6	29.4
		Medium (72)	75.7	24.3
		Large (91)	75.3	24.7
Combined	Small (15)	42.9	57.1	
	Medium (41)	30.8	69.2	
	Large** (5)	20.0	80.0	
City/Special	Elementary	Small (72)	47.2	52.8
		Medium (149)	65.3	34.7
		Large (52)	70.6	29.4
	Middle	Small** (5)	20.0	80.0
		Medium (25)	52.0	48.0
		Large (29)	82.1	17.9
	Secondary	Small** (0)	--	--
		Medium** (10)	70.0	30.0
		Large (41)	70.7	29.3
	Combined	Small** (2)	0.0	100.0
		Medium** (7)	0.0	100.0
		Large** (2)	0.0	100.0

Criterion 4 Reference Points

- 1) Highest Percentage of Adequate Plants: 82.1 (Large Middle Schools in City/Special Systems)
- 2) Highest Percentage of Substandard Plants: 69.2 (Medium Combined Schools in County Systems)
- 3) Percentage of Adequate Plants for All Tennessee Schools: 63.2
- 4) Percentage of Substandard Plants for All Tennessee Schools: 36.8

*Number in parentheses = total number of schools in this category represented in the survey

**Category excluded from consideration in compiling Reference Points since it contains fewer than 15 schools (1 percent of survey respondents)

Summary Table 4.5 Percentage of Tennessee Schools in Each of Twenty-Four Categories Rated 'Adequate' or 'Substandard' According to Criterion 5 (No Temporary Structures)

System Type	Organizational Level	Size	Rating	
			Adequate	Substandard
County	Elementary	Small (368)*	83.7%	16.3%
		Medium (269)	76.2	23.8
		Large (78)	55.1	44.9
	Middle	Small** (6)	100.0	0.0
		Medium (40)	82.5	17.5
		Large (46)	63.0	37.0
	Secondary	Small (18)	94.4	5.6
		Medium (72)	87.5	12.5
		Large (91)	68.1	31.9
	Combined	Small (15)	93.3	6.7
		Medium (41)	70.7	29.3
		Large** (5)	60.0	40.0
City/Special	Elementary	Small (72)	91.7	8.3
		Medium (149)	81.2	18.8
		Large (52)	73.1	26.9
	Middle	Small** (5)	80.0	20.0
		Medium (25)	88.0	12.0
		Large (29)	89.7	10.3
	Secondary	Small** (0)	--	--
		Medium** (10)	90.0	10.0
		Large (41)	80.5	19.5
	Combined	Small** (2)	50.0	50.0
		Medium** (7)	85.7	14.3
		Large** (2)	0.0	100.0

Criterion 5 Reference Points

- 1) Highest Percentage of Adequate Plants: 94.4 (Small Secondary Schools in County Systems)
- 2) Highest Percentage of Substandard Plants: 44.9 (Large Elementary Schools in County Systems)
- 3) Percentage of Adequate Plants for All Tennessee Schools: 78.8
- 4) Percentage of Substandard Plants for All Tennessee Schools: 21.2

*Number in parentheses = total number of schools in this category represented in the survey

**Category excluded from consideration in compiling Reference Points since it contains fewer than 15 schools (1 percent of survey respondents)

Summary Table 4.6 Percentage of Tennessee Schools in Each of Twenty-Four Categories Rated 'Adequate' or 'Substandard' According to Criterion 6 (No Basement used for Instruction)

System Type	Organizational Level	Size	Rating	
			Adequate	Substandard
County	Elementary	Small (368)*	81.5%	18.5%
		Medium (269)	75.1	24.9
		Large (78)	82.1	17.9
	Middle	Small** (6)	83.3	16.7
		Medium (40)	60.0	40.0
		Large (46)	78.3	21.7
	Secondary	Small (18)	72.2	27.8
		Medium (72)	77.8	22.2
		Large (91)	74.7	25.3
Combined	Small (15)	46.7	53.3	
	Medium (41)	68.3	31.7	
	Large** (5)	40.0	60.0	
City/Special	Elementary	Small (72)	79.2	20.8
		Medium (149)	78.5	21.5
		Large (52)	78.8	21.2
	Middle	Small** (5)	40.0	60.0
		Medium (25)	80.0	20.0
		Large (29)	62.1	37.9
	Secondary	Small** (0)	--	--
		Medium** (10)	80.0	20.0
		Large (41)	70.7	29.3
	Combined	Small** (2)	100.0	0.0
		Medium** (7)	85.7	14.3
		Large** (2)	50.0	50.0

Criterion 6 Reference Points

- 1) Highest Percentage of Adequate Plants: 82.1 (Large Elementary Schools in County Systems)
- 2) Highest Percentage of Substandard Plants: 53.3 (Small Combined Schools in County Systems)
- 3) Percentage of Adequate Plants for All Tennessee Schools: 76.7
- 4) Percentage of Substandard Plants for All Tennessee Schools: 23.3

*Number in parentheses = total number of schools in this category represented in the survey

**Category excluded from consideration in compiling Reference Points since it contains fewer than 15 schools (1 percent of survey respondents)

Summary Table 4.7 Percentage of Tennessee Schools in Each of Twenty-Four Categories Rated 'Adequate' or 'Substandard' According to Criterion 7 (No Building of Wood Exclusively)

System Type	Organizational Level	Size	Rating	
			Adequate	Substandard
County	Elementary	Small (368)*	89.4%	10.6%
		Medium (269)	94.1	5.9
		Large (78)	88.5	11.5
	Middle	Small** (6)	100.0	0.0
		Medium (40)	95.0	5.0
		Large (46)	93.5	6.5
	Secondary	Small (18)	100.0	0.0
		Medium (72)	100.0	0.0
		Large (91)	89.0	11.0
Combined	Small (15)	86.7	13.3	
	Medium (41)	95.1	4.9	
	Large** (5)	60.0	40.0	
City/Special	Elementary	Small (72)	95.8	4.2
		Medium (149)	94.0	6.0
		Large (52)	88.5	11.5
	Middle	Small** (5)	100.0	0.0
		Medium (25)	100.0	0.0
		Large (29)	93.1	6.9
	Secondary	Small** (0)	--	--
		Medium** (10)	100.0	0.0
		Large (41)	95.1	4.9
	Combined	Small** (2)	100.0	0.0
		Medium** (7)	100.0	0.0
		Large** (2)	100.0	0.0

Criterion 7 Reference Points

- 1) Highest Percentage of Adequate Plants: 100.0 (Small and Medium Secondary Schools in County System Medium Middle Schools in City/Special Systems)
- 2) Highest Percentage of Substandard Plants: 13.3 (Small Combined Schools in County Systems)
- 3) Percentage of Adequate Plants for All Tennessee Schools: 92.6
- 4) Percentage of Substandard Plants for All Tennessee Schools: 7.4

*Number in parentheses = total number of schools in this category represented in the survey

**Category excluded from consideration in compiling Reference Points since it contains fewer than 15 schools (1 percent of survey respondents)

Summary Table 4.8 Percentage of Tennessee Schools in Each of Twenty-Four Categories Rated 'Adequate' or 'Substandard' According to Criterion 8 (Central Heating in Original Building)

System Type	Organizational Level	Size	Rating	
			Adequate	Substandard
County	Elementary	Small (368)*	82.6%	17.4%
		Medium (269)	93.7	6.3
		Large (78)	85.9	14.1
	Middle	Small** (6)	100.0	0.0
		Medium (40)	90.0	10.0
		Large (46)	95.7	4.3
	Secondary	Small (18)	100.0	0.0
		Medium (72)	90.3	9.7
		Large (91)	95.6	4.4
	Combined	Small (15)	86.7	13.3
		Medium (41)	82.9	17.1
		Large** (5)	100.0	0.0
City/Special	Elementary	Small (72)	95.8	4.2
		Medium (149)	88.6	11.4
		Large (52)	92.3	7.7
	Middle	Small** (5)	100.0	0.0
		Medium (25)	88.0	12.0
		Large (29)	96.6	3.4
	Secondary	Small** (0)	--	--
		Medium** (10)	90.0	10.0
		Large (41)	90.2	9.8
	Combined	Small** (2)	50.0	50.0
		Medium** (7)	85.7	14.3
		Large** (2)	100.0	0.0

Criterion 8 Reference Points

- 1) Highest Percentage of Adequate Plants: 100.0 (Small Secondary Schools in County Systems)
- 2) Highest Percentage of Substandard Plants: 17.4 (Small Elementary Schools in County Systems)
- 3) Percentage of Adequate Plants for All Tennessee Schools: 89.5
- 4) Percentage of Substandard Plants for All Tennessee Schools: 10.5

*Number in parentheses = total number of schools in this category represented in the survey

**Category excluded from consideration in compiling Reference Points since it contains fewer than 15 schools (1 percent of survey respondents)

Summary Table 4.9 Percentage of Tennessee Schools in Each of Twenty-Four Categories Rated 'Adequate' or 'Substandard' According to Criterion 9 (Central Air or all Window Units)

System Type	Organizational Level	Size	Rating	
			Adequate	Substandard
County	Elementary	Small (368)*	15.8%	69.0%
		Medium (269)	20.1	54.6
		Large (78)	28.2	41.0
	Middle	Small** (6)	16.7	66.7
		Medium (40)	32.5	55.0
		Large (46)	47.8	37.0
	Secondary	Small (18)	22.2	55.6
		Medium (72)	22.2	41.7
		Large (91)	42.9	29.7
Combined	Small (15)	6.7	80.0	
	Medium (41)	17.1	48.8	
	Large** (5)	0.0	60.0	
City/Special	Elementary	Small (72)	12.5	79.2
		Medium (149)	24.8	49.7
		Large (52)	25.0	48.1
	Middle	Small** (5)	0.0	40.0
		Medium (25)	28.0	64.0
		Large (29)	55.2	34.5
	Secondary	Small** (0)	—	—
		Medium** (10)	40.0	30.0
		Large (41)	36.6	24.4
	Combined	Small** (2)	50.0	50.0
		Medium** (7)	14.3	42.9
		Large** (2)	50.0	50.0

Criterion 9 Reference Points

- 1) Highest Percentage of Adequate Plants: 55.2 (Large Middle Schools in City/Special Systems)
- 2) Highest Percentage of Substandard Plants: 80.0 (Small Combined Schools in County Systems)
- 3) Percentage of Adequate Plants for All Tennessee Schools: 23.6
- 4) Percentage of Substandard Plants for All Tennessee Schools: 54.0

*Number in parentheses = total number of schools in this category represented in the survey

**Category excluded from consideration in compiling Reference Points since it contains fewer than 15 schools (1 percent of survey respondents)

Summary Table 4.10 Percentage of Tennessee Schools in Each of Twenty-Four Categories Rated 'Adequate' or 'Substandard' According to Criterion 10 (Complete Fluorescent Lighting)

System Type	Organizational Level	Size	Rating	
			Adequate	Substandard
County	Elementary	Small (368)*	38.6%	47.0%
		Medium (269)	50.6	24.2
		Large (78)	61.5	12.8
	Middle	Small** (6)	33.3	33.3
		Medium (40)	67.5	15.0
		Large (46)	71.7	10.9
	Secondary	Small (18)	50.0	27.8
		Medium (72)	56.9	23.6
		Large (91)	73.6	8.8
	Combined	Small (15)	40.0	33.3
		Medium (41)	31.7	26.8
		Large** (5)	20.0	20.0
City/Special	Elementary	Small (72)	72.2	19.4
		Medium (149)	75.8	13.4
		Large (52)	75.0	11.5
	Middle	Small** (5)	80.0	20.0
		Medium (25)	72.0	20.0
		Large (29)	86.2	6.9
	Secondary	Small** (0)	—	—
		Medium** (10)	50.0	20.0
		Large (41)	85.4	9.8
	Combined	Small** (2)	50.0	50.0
		Medium** (7)	28.6	57.1
		Large** (2)	50.0	0.0

Criterion 10 Reference Points

- 1) Highest Percentage of Adequate Plants: 86.2 (Large Middle Schools in City/Special Systems)
- 2) Highest Percentage of Substandard Plants: 47.0 (Small Elementary Schools in County Systems)
- 3) Percentage of Adequate Plants for All Tennessee Schools: 56.9
- 4) Percentage of Substandard Plants for All Tennessee Schools: 25.4

*Number in parentheses = total number of schools in this category represented in the survey

**Category excluded from consideration in compiling Reference Points since it contains fewer than 15 schools (1 percent of survey respondents)

Summary Table 4.11 Percentage of Tennessee Schools in Each of Twenty-Four Categories Rated 'Adequate' or 'Substandard' According to Criterion 11 (Use of Water Utility)

System Type	Organizational Level	Size		Rating	
				Adequate	Substandard
County	Elementary	Small	(368)*	59.8%	40.2%
		Medium	(269)	93.7	6.3
		Large	(78)	97.4	2.6
	Middle	Small**	(6)	100.0	0.0
		Medium	(40)	100.0	0.0
		Large	(46)	100.0	0.0
	Secondary	Small	(18)	72.2	27.8
		Medium	(72)	95.8	4.2
		Large	(91)	98.9	1.1
	Combined	Small	(15)	66.7	33.3
		Medium	(41)	73.2	26.8
		Large**	(5)	80.0	20.0
City/Special	Elementary	Small	(72)	100.0	0.0
		Medium	(149)	100.0	0.0
		Large	(52)	100.0	0.0
	Middle	Small**	(5)	100.0	0.0
		Medium	(25)	100.0	0.0
		Large	(29)	100.0	0.0
	Secondary	Small**	(0)	--	--
		Medium**	(10)	100.0	0.0
		Large	(41)	100.0	0.0
	Combined	Small**	(2)	100.0	0.0
		Medium**	(7)	100.0	0.0
		Large**	(2)	100.0	0.0

Criterion 11 Reference Points

- 1) Highest Percentage of Adequate Plants: 100.0 (Med. and Large Middle Schools in County Systems, and all city schools)
- 2) Highest Percentage of Substandard Plants: 40.2 (Small Elementary Schools in County Systems)
- 3) Percentage of Adequate Plants for All Tennessee Schools: 86.7
- 4) Percentage of Substandard Plants for All Tennessee Schools: 13.3

*Number in parentheses = total number of schools in this category represented in the survey

**Category excluded from consideration in compiling Reference Points since it contains fewer than 15 schools (1 percent of survey respondents)



Summary Table 4.12 Percentage of Tennessee Schools in Each of Twenty-Four Categories Rated 'Adequate' or 'Substandard' According to Criterion 12 (Meets 7 of 11 of above criteria)

System Type	Organizational Level	Size	Rating		
			Adequate	Substandard	
County	Elementary	Small	(368)*	42.7%	7.3%
		Medium	(269)	58.7	3.7
		Large	(78)	48.7	3.8
	Middle	Small**	(6)	66.7	0.0
		Medium	(40)	67.5	0.0
		Large	(46)	58.7	6.5
	Secondary	Small	(18)	55.6	0.0
		Medium	(72)	81.9	1.4
		Large	(91)	62.6	3.3
	Combined	Small	(15)	40.0	13.3
		Medium	(41)	43.9	0.0
		Large**	(5)	20.0	20.0
City/Special	Elementary	Small	(72)	76.4	0.0
		Medium	(149)	80.5	2.0
		Large	(52)	55.8	3.8
	Middle	Small**	(5)	40.0	0.0
		Medium	(25)	92.0	4.0
		Large	(29)	82.8	6.9
	Secondary	Small**	(0)	--	--
		Medium**	(10)	80.0	0.0
		Large	(41)	78.0	0.0
	Combined	Small**	(2)	50.0	0.0
		Medium**	(7)	57.1	14.3
		Large**	(2)	0.0	0.0

Criterion 12 Reference Points

- 1) Highest Percentage of Adequate Plants: 92 (Medium Middle Schools in City/Special Systems)
- 2) Highest Percentage of Substandard Plants: 13.3 (Small Combined Schools in County Systems)
- 3) Percentage of Adequate Plants for All Tennessee Schools: 59.5
- 4) Percentage of Substandard Plants for All Tennessee Schools: 4.1

*Number in parentheses = total number of schools in this category represented in the survey

**Category excluded from consideration in compiling Reference Points since it contains fewer than 15 schools (1 percent of survey respondents)

Summary Table 4.13 Number and Percentage of Small, Medium and Large Schools Rated 'Adequate' or 'Substandard' According to Criterion 12 (Meets 7 of 11 of Above Criteria)

	Small		Medium		Large	
	Adequate	Substandard	Adequate	Substandard	Adequate	Substandard
Number	235	29	417	16	208	14
Percentage	48.4%	6.0%	68.0%	2.6%	60.5%	4.1%

Summary Table 4.14 Number and Percentage of Tennessee Schools in County and City/Special Systems Rated 'Adequate' or 'Substandard' According to Criterion 12 (Meets 7 of 11 of Above Criteria)

	County		City/Special	
	Adequate	Substandard	Adequate	Substandard
Number	562	50	298	9
Percentage	53.6%	4.8%	75.6%	2.3%

DATA DISPLAYS

269

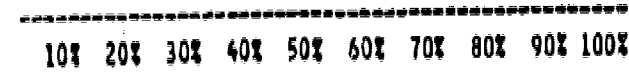
166

SMALL ELEMENTARY SCHOOLS IN COUNTY SYSTEMS

368 RESPONDENTS

NUMBER AND PERCENTAGE OF SMALL ELEMENTARY SCHOOLS IN COUNTY SYSTEMS
USING SPECIFIED PROPORTIONS OF SCHOOL PLANT CAPACITY

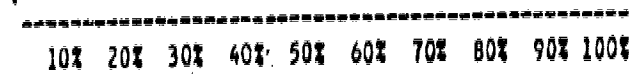
ENROLLMENT/CAPACITY	RATIO	NUMBER	PERCENTAGE
ABOVE	0.0- 0.5	31	8.6
ABOVE	0.5- 0.8	130	35.9
ABOVE	0.8- 1.0	148	40.9
ABOVE	1.0- 1.5	52	14.4
ABOVE	1.5- 2.0	0	0.0
ABOVE	2.0-13.0	1	0.3
TOTAL		362	100.0



SCHOOLS THAT EXCEED CAPACITY: 53 14.6%

NUMBER AND PERCENTAGE OF SMALL ELEMENTARY SCHOOLS IN COUNTY SYSTEMS
HAVING SITES OF SPECIFIED SIZES (IN ACRES)

ACRES	NUMBER	PERCENTAGE
0- LESS THAN 1	0	0.0
1- LESS THAN 5	129	36.2
5- LESS THAN 10	142	39.9
10- LESS THAN 20	72	20.2
20- LESS THAN 30	11	3.1
30- LESS THAN 50	0	0.0
50- LESS THAN 100	2	0.6
TOTAL		356 100.0



MEDIAN SCHOOL SITE SIZE IS 5 ACRES

NUMBER AND PERCENTAGE OF SMALL ELEMENTARY SCHOOLS IN COUNTY SYSTEMS
MEETING SITE SIZE REQUIREMENTS: 47 13.2%

NUMBER AND PERCENTAGE OF BUILDINGS OF SMALL ELEMENTARY SCHOOLS IN COUNTY SYSTEMS OCCURRING AT SPECIFIED STAGES OF THE SCHOOL LIFE CYCLE

AGE (IN YEARS)	ORIGINAL		ADD1		ADD2		ADD3		TEMP1		TEMP2		TEMP3	
60 OR OVER	6	1.7	1	0.6	1	1.1	0	0.0	0	0.0	0	0.0	0	0.0
40- LESS THAN 60	80	22.9	7	4.4	4	4.3	0	0.0	0	0.0	0	0.0	0	0.0
20- LESS THAN 40	163	46.6	66	41.5	21	22.6	5	18.5	0	0.0	0	0.0	1	6.7
LESS THAN 20	101	28.9	85	53.5	67	72.0	22	81.5	46	100.0	24	100.0	14	93.3
TOTAL	350	100.0	159	100.0	93	100.0	27	100.0	46	100.0	24	100.0	15	100.0

NUMBER AND PERCENTAGE OF BUILDINGS OF SMALL ELEMENTARY SCHOOLS IN COUNTY SYSTEMS CONSTRUCTED OR ADDED IN SPECIFIED DECADES, 1840-1973

	ORIGINAL		ADD1		ADD2		ADD3		TEMP1		TEMP2		TEMP3	
AFTER 1840 - 1870	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1870 - 1880	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1880 - 1890	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1890 - 1900	1	0.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1900 - 1910	3	0.9	1	0.6	1	1.1	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1910 - 1920	22	6.3	1	0.6	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1920 - 1930	48	13.7	5	3.1	3	3.2	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1930 - 1940	59	16.9	12	7.5	4	4.3	1	3.7	0	0.0	0	0.0	0	0.0
AFTER 1940 - 1950	79	22.6	35	22.0	9	9.7	3	11.1	0	0.0	0	0.0	1	6.7
AFTER 1950 - 1960	98	28.0	63	39.6	31	33.3	11	40.7	1	2.2	0	0.0	0	0.0
AFTER 1960 - 1970	36	10.3	37	23.3	35	37.6	12	44.4	30	65.2	16	66.7	6	40.0
AFTER 1970 - 1973	4	1.1	5	3.1	10	10.8	0	0.0	15	32.6	8	33.3	8	53.3
TOTAL	350	100.0	159	100.0	93	100.0	27	100.0	46	100.0	24	100.0	15	100.0

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
OLDEST STRUCTURE	1900	1908	1910	1938	1955	1962	1949
MEAN YEAR OF CONSTRUCTION	1944	1953	1958	1958	1968	1969	1968

NUMBER AND PERCENTAGE OF SMALL ELEMENTARY SCHOOLS IN COUNTY SYSTEMS HAVING SPECIFIED NUMBERS OF ADDITIONAL AND TEMPORARY STRUCTURES

	ADDITIONS		TEMPORARIES	
0	169	45.9	308	83.7
1	135	36.7	40	10.9
2	48	13.0	15	4.1
3	16	4.3	5	1.4
TOTAL	368	100.0	368	100.0

NUMBER AND PERCENTAGE OF BUILDINGS OF SMALL ELEMENTARY SCHOOLS IN COUNTY SYSTEMS
UTILIZING BASEMENTS FOR INSTRUCTION OR OTHER PROGRAMS INVOLVING STUDENTS

ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
52 14.1	15 9.4	8 8.6	3 11.1	0 0.0	0 0.0	1 6.7

SCHOOLS USING BASEMENT OF SOME STRUCTURE FOR INSTRUCTION: 68 18.5%

NUMBER AND PERCENTAGE OF BUILDINGS OF SMALL ELEMENTARY SCHOOLS IN COUNTY SYSTEMS
HAVING SPECIFIED NUMBERS OF STORIES (EXCLUDING BASEMENT)

NUMBER OF STORIES	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
1 STORY	318 86.4	135 84.9	87 93.5	21 77.8	46 100.0	23 95.8	15 100.0
2 STORIES	45 12.2	23 14.5	6 6.5	6 22.2	0 0.0	1 4.2	0 0.0
3 STORIES	4 1.1	1 0.6	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
4 STORIES	1 0.3	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
TOTAL	368 100.0	159 100.0	93 100.0	27 100.0	46 100.0	24 100.0	15 100.0

TWO STORIES OR MORE BUILT BEFORE 1920

13 3.5	2 1.3	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
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ALL WOOD STRUCTURES OF MORE THAN ONE STORY

1 0.3	0 0.0	0 0.0	0 0.0	0 0.0	1 4.2	0 0.0
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NUMBER AND PERCENTAGE OF BUILDINGS OF SMALL ELEMENTARY SCHOOLS IN COUNTY SYSTEMS
USING SELECTED EXTERIOR CONSTRUCTION MATERIALS

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
BRICK	252 68.5	112 70.4	59 63.4	16 59.3	1 2.2	1 4.2	2 13.3
WOOD	20 5.4	3 1.9	4 4.3	0 0.0	14 30.4	7 29.2	2 13.3
METAL	1 0.3	1 0.6	4 4.3	0 0.0	25 54.3	12 50.0	7 46.7
STONE	8 2.2	1 0.6	1 1.1	0 0.0	0 0.0	0 0.0	0 0.0
CONCRETE	13 3.5	12 7.5	3 3.2	3 11.1	0 0.0	0 0.0	0 0.0
OTHER	3 0.8	3 1.9	3 3.2	1 3.7	0 0.0	0 0.0	0 0.0
BRICK, WOOD	12 3.3	5 3.1	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, METAL	4 1.1	1 0.6	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, STONE	3 0.8	1 0.6	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, CONCRETE	16 4.3	4 2.5	2 2.2	1 3.7	0 0.0	0 0.0	0 0.0
BRICK, OTHER	5 1.4	1 0.6	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD, METAL	1 0.3	2 1.3	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD, CONCRETE	4 1.1	2 1.3	1 1.1	1 3.7	0 0.0	0 0.0	0 0.0
BRICK, METAL, CONCRETE	8 2.2	2 1.3	2 2.2	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, STONE, CONCRETE	1 0.3	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD, METAL, CONCRETE	3 0.8	1 0.6	1 1.1	0 0.0	0 0.0	0 0.0	0 0.0
ALL OTHER COMBINATIONS	13 3.5	4 2.5	2 2.2	1 3.7	2 4.3	2 8.3	1 6.7
NO RESPONSE	1 0.3	4 2.5	11 11.8	4 14.8	4 8.7	2 8.3	3 20.0
TOTAL	368 100.0	159 100.0	93 100.0	27 100.0	46 100.0	24 100.0	15 100.0

NUMBER AND PERCENTAGE OF BUILDINGS OF SMALL ELEMENTARY SCHOOLS IN COUNTY SYSTEMS
USING SPECIFIED TYPES OF HEATING, COOLING, AND LIGHTING EQUIPMENT

HEATING EQUIPMENT

	ORIGINAL		ADD1		ADD2		ADD3		TEMP1		TEMP2		TEMP3	
JUST CENTRAL	289	78.5	122	76.7	68	73.1	18	66.7	13	28.3	7	29.2	4	26.7
JUST SPACE	61	16.6	22	13.8	13	14.0	5	18.5	27	58.7	15	62.5	8	53.3
CENTRAL & SPACE	15	4.1	6	3.8	2	2.2	0	0.0	0	0.0	0	0.0	0	0.0
NO RESPONSE	3	0.8	9	5.7	10	10.8	4	14.8	6	13.0	2	8.3	3	20.0
TOTAL	368	100.0	159	100.0	93	100.0	27	100.0	46	100.0	24	100.0	15	100.0

COOLING EQUIPMENT

	ORIGINAL		ADD1		ADD2		ADD3		TEMP1		TEMP2		TEMP3	
JUST CENTRAL	9	2.4	7	4.4	9	9.7	0	0.0	17	37.0	8	33.3	3	20.0
JUST WINDOW UNIT	83	22.6	30	18.9	13	14.0	2	7.4	15	32.6	8	33.3	7	46.7
CENTRAL & WINDOW	1	0.3	1	0.6	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
NO MECHANICAL	275	74.7	121	76.1	71	76.3	25	92.6	14	30.4	8	33.3	5	33.3
TOTAL	368	100.0	159	100.0	93	100.0	27	100.0	46	100.0	24	100.0	15	100.0

WINDOW UNIT COOLING

	ORIGINAL		ADD1		ADD2		ADD3		TEMP1		TEMP2		TEMP3	
ALL ROOMS	53	63.1	23	74.2	10	76.9	2	100.0	10	66.7	7	87.5	6	85.7
SELECTED ROOMS	24	28.6	6	19.4	1	7.7	0	0.0	1	6.7	0	0.0	0	0.0
NO RESPONSE	7	8.3	2	6.5	2	15.4	0	0.0	4	26.7	1	12.5	1	14.3
TOTAL	84	100.0	31	100.0	13	100.0	2	100.0	15	100.0	8	100.0	7	100.0

LIGHTING EQUIPMENT

	ORIGINAL		ADD1		ADD2		ADD3		TEMP1		TEMP2		TEMP3	
INCANDESCENT	178	48.4	64	40.3	25	26.9	9	33.3	2	4.3	1	4.2	1	6.7
FLUORESCENT	155	42.1	83	52.2	55	59.1	14	51.9	42	91.3	21	87.5	11	73.3
BOTH	6	1.6	2	1.3	1	1.1	0	0.0	0	0.0	0	0.0	0	0.0
OTHER	30	8.2	3	1.9	3	3.2	0	0.0	0	0.0	0	0.0	0	0.0
NO RESPONSE	2	0.5	8	5.0	10	10.8	4	14.8	2	4.3	2	8.3	3	20.0
TOTAL	368	100.0	159	100.0	93	100.0	27	100.0	46	100.0	24	100.0	15	100.0

NUMBER AND PERCENTAGE OF SMALL ELEMENTARY SCHOOLS IN COUNTY SYSTEMS
USING SPECIFIED SOURCES OF WATER SUPPLY

	NUMBER	PERCENTAGE	
WATER UTILITY	220	59.8	*****
PUMP ON PROPERTY	140	38.0	*****
OTHER (WELLS, ETC.)	8	2.2	*
NO RESPONSE	0	0.0	
TOTAL	368	100.0	-----

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

NUMBER AND PERCENTAGE OF PRINCIPALS OF SMALL ELEMENTARY SCHOOLS IN COUNTY SYSTEMS
EXPRESSING SPECIFIED FACILITY NEEDS

	NUMBER	PERCENTAGE	
MAINTENANCE	227	61.7	*****
CONSTRUCTION	114	31.0	*****
BOTH	6	1.6	*
NEITHER (INCLUDING NO RESPONSE)	21	5.7	***
TOTAL	368	100.0	-----

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

PLANT PROFILES: SMALL ELEMENTARY SCHOOLS IN COUNTY SYSTEMS

CRITERION	ADEQUATE		SUBSTANDARD	
	NUMBER	PERCENTAGE	NUMBER	PERCENTAGE
1. ENROLLMENT/CAPACITY RATIO <= 1	309	85.4	53	14.6
2. MEETS NATIONAL SCHOOL SIZE STANDARDS	54	14.7	314	85.3
3. MEETS NATIONAL SITE SIZE STANDARDS	47	13.2	309	86.8
4. ORIGINAL BUILDING 30 YRS OLD OR LESS	209	59.7	141	40.3
5. NO TEMPORARY STRUCTURES	308	83.7	60	16.3
6. NO BASEMENT USED FOR INSTRUCTION	300	81.5	68	18.5
7. NO BUILDING OF WOOD EXCLUSIVELY	329	89.4	39	10.6
8. CENTRAL HEATING IN ORIGINAL BUILDING	304	82.6	64	17.4
9. CENTRAL AIR OR ALL WINDOW UNITS	58	15.8	254	69.0
10. COMPLETE FLUORESCENT LIGHTING	142	38.6	173	47.0
11. USE OF WATER UTILITY	220	59.8	148	40.2
MEETS 7 OF 11 OF ABOVE CRITERIA	157	42.7	27	7.3

MEDIUM ELEMENTARY SCHOOLS IN COUNTY SYSTEMS

269 RESPONDENTS

NUMBER AND PERCENTAGE OF MEDIUM ELEMENTARY SCHOOLS IN COUNTY SYSTEMS
USING SPECIFIED PROPORTIONS OF SCHOOL PLANT CAPACITY

ENROLLMENT/CAPACITY		NUMBER	PERCENTAGE	
	RATIO			
ABOVE	0.0- 0.5	2	0.7	
ABOVE	0.5- 0.8	33	12.3	*****
ABOVE	0.8- 1.0	129	48.0	*****
ABOVE	1.0- 1.5	98	36.4	*****
ABOVE	1.5- 2.0	6	2.2	*
ABOVE	2.0-13.0	1	0.4	
TOTAL		269	100.0	-----

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

SCHOOLS THAT EXCEED CAPACITY: 105 39.0%

NUMBER AND PERCENTAGE OF MEDIUM ELEMENTARY SCHOOLS IN COUNTY SYSTEMS
HAVING SITES OF SPECIFIED SIZES (IN ACRES)

ACRES	NUMBER	PERCENTAGE	
0- LESS THAN 1	0	0.0	
1- LESS THAN 5	39	15.0	*****
5- LESS THAN 10	99	38.1	*****
10- LESS THAN 20	94	36.2	*****
20- LESS THAN 30	21	8.1	****
30- LESS THAN 50	6	2.3	*
50- LESS THAN 100	1	0.4	
TOTAL	260	100.0	-----

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

MEDIAN SCHOOL SITE SIZE IS 9 ACRES

NUMBER AND PERCENTAGE OF MEDIUM ELEMENTARY SCHOOLS IN COUNTY SYSTEMS
MEETING SITE SIZE REQUIREMENTS: 50 19.2%

172

NUMBER AND PERCENTAGE OF BUILDINGS OF MEDIUM ELEMENTARY SCHOOLS IN COUNTY SYSTEMS OCCURRING AT SPECIFIED STAGES OF THE SCHOOL LIFE CYCLE

AGE (IN YEARS)	ORIGINAL		ADD1		ADD2		ADD3		TEMP1		TEMP2		TEMP3	
	Count	Percentage	Count	Percentage	Count	Percentage	Count	Percentage	Count	Percentage	Count	Percentage	Count	Percentage
60 OR OVER	11	4.2	1	0.6	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
40- LESS THAN 60	34	12.9	6	3.5	2	1.5	0	0.0	0	0.0	0	0.0	0	0.0
20- LESS THAN 40	122	46.4	67	39.0	17	13.0	4	7.0	1	2.0	0	0.0	0	0.0
LESS THAN 20	96	36.5	98	57.0	112	85.5	53	93.0	49	98.0	22	100.0	20	100.0
TOTAL	263	100.0	172	100.0	131	100.0	57	100.0	50	100.0	22	100.0	20	100.0

NUMBER AND PERCENTAGE OF BUILDINGS OF MEDIUM ELEMENTARY SCHOOLS IN COUNTY SYSTEMS CONSTRUCTED OR ADDED IN SPECIFIED DECADES, 1840-1973

	ORIGINAL		ADD1		ADD2		ADD3		TEMP1		TEMP2		TEMP3	
	Count	Percentage	Count	Percentage	Count	Percentage	Count	Percentage	Count	Percentage	Count	Percentage	Count	Percentage
AFTER 1840 - 1870	2	0.8	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1870 - 1880	1	0.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1880 - 1890	2	0.8	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1890 - 1900	1	0.4	1	0.6	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1900 - 1910	3	1.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1910 - 1920	9	3.4	1	0.6	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1920 - 1930	21	8.0	4	2.3	1	0.8	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1930 - 1940	42	16.0	11	6.4	3	2.3	1	1.8	0	0.0	0	0.0	0	0.0
AFTER 1940 - 1950	56	21.3	29	16.9	8	6.1	1	1.8	0	0.0	0	0.0	1	5.0
AFTER 1950 - 1960	83	31.6	82	47.7	45	34.4	9	15.8	3	6.0	0	0.0	11	55.0
AFTER 1960 - 1970	35	13.3	41	23.8	64	48.9	37	64.9	33	66.0	12	54.5	8	40.0
AFTER 1970 - 1973	8	3.0	3	1.7	10	7.6	9	15.8	14	28.0	10	45.5	20	100.0
TOTAL	263	100.0	172	100.0	131	100.0	57	100.0	50	100.0	22	100.0	20	100.0

OLDEST STRUCTURE MEAN YEAR OF CONSTRUCTION	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
	1870	1898	1922	1940	1953	1966	1954
	1946	1954	1963	1964	1968	1969	1968

NUMBER AND PERCENTAGE OF MEDIUM ELEMENTARY SCHOOLS IN COUNTY SYSTEMS HAVING SPECIFIED NUMBERS OF ADDITIONAL AND TEMPORARY STRUCTURES

	ADDITIONS		TEMPORARIES	
	Count	Percentage	Count	Percentage
0	71	26.4	205	76.2
1	84	31.2	43	16.0
2	66	24.5	14	5.2
3	48	17.8	7	2.6
TOTAL	269	100.0	269	100.0

NUMBER AND PERCENTAGE OF BUILDINGS OF MEDIUM ELEMENTARY SCHOOLS IN COUNTY SYSTEMS
UTILIZING BASEMENTS FOR INSTRUCTION OR OTHER PROGRAMS INVOLVING STUDENTS

ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
53 19.7	11 6.4	11 8.4	7 12.3	0 0.0	0 0.0	0 0.0

SCHOOLS USING BASEMENT OF SOME STRUCTURE FOR INSTRUCTION: 67 24.9%

NUMBER AND PERCENTAGE OF BUILDINGS OF MEDIUM ELEMENTARY SCHOOLS IN COUNTY SYSTEMS
HAVING SPECIFIED NUMBERS OF STORIES (EXCLUDING BASEMENT)

NUMBER OF STORIES	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
1 STORY	197 73.2	126 73.3	108 82.4	51 89.5	48 96.0	22 100.0	20 100.0
2 STORIES	62 23.0	45 26.2	21 16.0	5 8.8	2 4.0	0 0.0	0 0.0
3 STORIES	10 3.7	1 0.6	2 1.5	1 1.8	0 0.0	0 0.0	0 0.0
4 STORIES	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
TOTAL	269 100.0	172 100.0	131 100.0	57 100.0	50 100.0	22 100.0	20 100.0

TWO STORIES OR MORE BUILT BEFORE 1920

15 5.6	1 0.6	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
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ALL WOOD STRUCTURES OF MORE THAN ONE STORY

0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
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NUMBER AND PERCENTAGE OF BUILDINGS OF MEDIUM ELEMENTARY SCHOOLS IN COUNTY SYSTEMS
USING SELECTED EXTERIOR CONSTRUCTION MATERIALS

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
BRICK	211 78.4	135 78.5	110 84.0	42 73.7	3 6.0	0 0.0	0 0.0
WOOD	5 1.9	1 0.6	0 0.0	1 1.8	8 16.0	4 18.2	5 25.0
METAL	0 0.0	0 0.0	2 1.5	1 1.8	30 60.0	17 77.3	12 60.0
STONE	4 1.5	1 0.6	1 0.8	0 0.0	0 0.0	0 0.0	0 0.0
CONCRETE	4 1.5	2 1.2	2 1.5	2 3.5	1 2.0	0 0.0	0 0.0
OTHER	2 0.7	3 1.7	1 0.8	1 1.8	1 2.0	0 0.0	1 5.0
BRICK, WOOD	4 1.5	2 1.2	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, METAL	5 1.9	4 2.3	1 0.8	1 1.8	0 0.0	0 0.0	0 0.0
BRICK, STONE	1 0.4	1 0.6	2 1.5	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, CONCRETE	10 3.7	7 4.1	3 2.3	3 5.3	1 2.0	0 0.0	0 0.0
BRICK, OTHER	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD, METAL	2 0.7	2 1.2	1 0.8	1 1.8	0 0.0	0 0.0	0 0.0
BRICK, WOOD, CONCRETE	2 0.7	0 0.0	1 0.8	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, METAL, CONCRETE	5 1.9	5 2.9	1 0.8	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, STONE, CONCRETE	2 0.7	1 0.6	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD, METAL, CONCRETE	2 0.7	1 0.6	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
ALL OTHER COMBINATIONS	8 3.0	3 1.7	3 2.3	1 1.8	5 10.0	1 4.5	1 5.0
NO RESPONSE	2 0.7	4 2.3	3 2.3	4 7.0	1 2.0	0 0.0	1 5.0
TOTAL	269 100.0	172 100.0	131 100.0	57 100.0	50 100.0	22 100.0	20 100.0

174

NUMBER AND PERCENTAGE OF BUILDINGS OF MEDIUM ELEMENTARY SCHOOLS IN COUNTY SYSTEMS
USING SPECIFIED TYPES OF HEATING, COOLING, AND LIGHTING EQUIPMENT

HEATING EQUIPMENT

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
JUST CENTRAL	237 88.1	144 83.7	103 78.6	41 71.9	19 38.0	12 54.5	6 30.0
JUST SPACE	13 4.8	17 9.9	18 13.7	9 15.8	26 52.0	8 36.4	12 60.0
CENTRAL & SPACE	15 5.6	5 2.9	2 1.5	3 5.3	2 4.0	1 4.5	0 0.0
NO RESPONSE	4 1.5	6 3.5	8 6.1	4 7.0	3 6.0	1 4.5	2 10.0
TOTAL	269 100.0	172 100.0	131 100.0	57 100.0	50 100.0	22 100.0	20 100.0

COOLING EQUIPMENT

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
JUST CENTRAL	29 10.8	12 7.0	12 9.2	11 19.3	22 44.0	10 45.5	8 40.0
JUST WINDOW UNIT	66 24.5	29 16.9	25 19.1	9 15.8	9 18.0	5 22.7	5 25.0
CENTRAL & WINDOW	2 0.7	0 0.0	0 0.0	0 0.0	1 2.0	1 4.5	0 0.0
NO MECHANICAL	172 63.9	131 76.2	94 71.8	37 64.9	18 36.0	6 27.3	7 35.0
TOTAL	269 100.0	172 100.0	131 100.0	57 100.0	50 100.0	22 100.0	20 100.0

WINDOW UNIT COOLING

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
ALL ROOMS	28 41.2	16 55.2	8 32.0	5 55.6	10 100.0	5 83.3	4 80.0
SELECTED ROOMS	32 47.1	11 37.9	13 52.0	3 33.3	0 0.0	0 0.0	1 20.0
NO RESPONSE	8 11.8	2 6.9	4 15.0	1 11.1	0 0.0	1 16.7	0 0.0
TOTAL	68 100.0	29 100.0	25 100.0	9 100.0	10 100.0	6 100.0	5 100.0

LIGHTING EQUIPMENT

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
INCANDESCENT	98 36.4	57 33.1	34 26.0	10 17.5	3 6.0	1 4.5	1 5.0
FLUORESCENT	153 56.9	98 57.0	89 67.9	41 71.9	45 90.0	21 95.5	18 90.0
BOTH	10 3.7	8 4.7	3 2.3	1 1.8	0 0.0	0 0.0	0 0.0
OTHER	10 3.7	5 2.9	3 2.3	0 0.0	1 2.0	0 0.0	1 5.0
NO RESPONSE	1 0.4	4 2.3	2 1.5	5 8.8	1 2.0	0 0.0	0 0.0
TOTAL	269 100.0	172 100.0	131 100.0	57 100.0	50 100.0	22 100.0	20 100.0

NUMBER AND PERCENTAGE OF MEDIUM ELEMENTARY SCHOOLS IN COUNTY SYSTEMS
USING SPECIFIED SOURCES OF WATER SUPPLY

	NUMBER	PERCENTAGE	
WATER UTILITY	252	93.7	*****
PUMP ON PROPERTY	15	5.6	***
OTHER (WELLS, ETC.)	2	0.7	
NO RESPONSE	0	0.0	
TOTAL	269	100.0	-----

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

NUMBER AND PERCENTAGE OF PRINCIPALS OF MEDIUM ELEMENTARY SCHOOLS IN COUNTY SYSTEMS
EXPRESSING SPECIFIED FACILITY NEEDS

	NUMBER	PERCENTAGE	
MAINTENANCE	139	51.7	*****
CONSTRUCTION	109	40.5	*****
BOTH	10	3.7	**
NEITHER (INCLUDING NO RESPONSE)	11	4.1	**
TOTAL	269	100.0	-----

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

PLANT PROFILES: MEDIUM ELEMENTARY SCHOOLS IN COUNTY SYSTEMS

CRITERION	ADEQUATE		SUBSTANDARD	
	NUMBER	PERCENTAGE	NUMBER	PERCENTAGE
1. ENROLLMENT/CAPACITY RATIO <= 1	164	61.0	105	39.0
2. MEETS NATIONAL SCHOOL SIZE STANDARDS	128	47.6	141	52.4
3. MEETS NATIONAL SITE SIZE STANDARDS	50	19.2	210	80.8
4. ORIGINAL BUILDING 30 YRS OLD OR LESS	174	66.2	89	33.8
5. NO TEMPORARY STRUCTURES	205	76.2	64	23.8
6. NO BASEMENT USED FOR INSTRUCTION	202	75.1	67	24.9
7. NO BUILDING OF WOOD EXCLUSIVELY	253	94.1	16	5.9
8. CENTRAL HEATING IN ORIGINAL BUILDING	252	93.7	17	6.3
9. CENTRAL AIR OR ALL WINDOW UNITS	54	20.1	147	54.6
10. COMPLETE FLUORESCENT LIGHTING	136	50.6	65	24.2
11. USE OF WATER UTILITY	252	93.7	17	6.3
12. MEETS 7 OF 11 OF ABOVE CRITERIA	158	58.7	10	3.7

CATA DISPLAY 4.3

LARGE ELEMENTARY SCHOOLS IN COUNTY SYSTEMS

78 RESPONDENTS

**NUMBER AND PERCENTAGE OF LARGE ELEMENTARY SCHOOLS IN COUNTY SYSTEMS
USING SPECIFIED PROPORTIONS OF SCHOOL PLANT CAPACITY**

ENROLLMENT/CAPACITY RATIO	NUMBER	PERCENTAGE	
ABOVE 0.0- 0.5	0	0.0	
ABOVE 0.5- 0.8	7	9.2	****
ABOVE 0.8- 1.0	22	28.9	*****
ABOVE 1.0- 1.5	43	56.6	*****
ABOVE 1.5- 2.0	4	5.3	**
ABOVE 2.0-13.0	0	0.0	
TOTAL	76	100.0	-----

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

SCHOOLS THAT EXCEED CAPACITY: 47 61.8%

**NUMBER AND PERCENTAGE OF LARGE ELEMENTARY SCHOOLS IN COUNTY SYSTEMS
HAVING SITES OF SPECIFIED SIZES (IN ACRES)**

ACRES	NUMBER	PERCENTAGE	
0- LESS THAN 1	0	0.0	
1- LESS THAN 5	4	5.3	**
5- LESS THAN 10	17	22.7	*****
10- LESS THAN 20	40	53.3	*****
20- LESS THAN 30	11	14.7	*****
30- LESS THAN 50	3	4.0	**
50- LESS THAN 100	0	0.0	
TOTAL	75	100.0	-----

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

MEDIAN SCHOOL SITE SIZE IS 11 ACRES

**NUMBER AND PERCENTAGE OF LARGE ELEMENTARY SCHOOLS IN COUNTY SYSTEMS
MEETING SITE SIZE REQUIREMENTS: 15 20.0%**



NUMBER AND PERCENTAGE OF BUILDINGS OF LARGE ELEMENTARY SCHOOLS IN COUNTY SYSTEMS OCCURRING AT SPECIFIED STAGES OF THE SCHOOL LIFE CYCLE

AGE (IN YEARS)	ORIGINAL		ADD1		ADD2		ADD3		TEMP1		TEMP2		TEMP3	
60 OR OVER	4	5.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
40- LESS THAN 60	6	7.7	4	8.7	0	0.0	0	0.0	1	3.4	0	0.0	0	0.0
20- LESS THAN 40	22	28.2	11	23.9	10	27.0	3	20.0	0	0.0	0	0.0	0	0.0
LESS THAN 20	46	59.0	31	67.4	27	73.0	12	80.0	28	96.6	16	100.0	10	100.0
TOTAL	78	100.0	46	100.0	37	100.0	15	100.0	29	100.0	16	100.0	10	100.0

NUMBER AND PERCENTAGE OF BUILDINGS OF LARGE ELEMENTARY SCHOOLS IN COUNTY SYSTEMS CONSTRUCTED OR ADDED IN SPECIFIED DECADES, 1840-1973

	ORIGINAL		ADD1		ADD2		ADD3		TEMP1		TEMP2		TEMP3	
AFTER 1840 - 1870	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1870 - 1880	1	1.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1880 - 1890	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1890 - 1900	1	1.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1900 - 1910	1	1.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1910 - 1920	3	3.8	1	2.2	0	0.0	0	0.0	1	3.4	0	0.0	0	0.0
AFTER 1920 - 1930	3	3.8	3	6.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1930 - 1940	12	15.4	2	4.3	1	2.7	1	6.7	0	0.0	0	0.0	0	0.0
AFTER 1940 - 1950	10	12.8	6	13.0	7	18.9	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1950 - 1960	17	21.8	13	28.3	11	29.7	3	20.0	1	3.4	1	6.3	0	0.0
AFTER 1960 - 1970	27	34.6	20	43.5	17	45.9	10	66.7	18	62.1	11	68.8	4	40.0
AFTER 1970 - 1973	3	3.8	1	2.2	1	2.7	1	6.7	9	31.0	4	25.0	6	60.0
TOTAL	78	100.0	46	100.0	37	100.0	15	100.0	29	100.0	16	100.0	10	100.0

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
OLDEST STRUCTURE	1880	1916	1939	1935	1917	1958	1963
MEAN YEAR OF CONSTRUCTION	1950	1954	1959	1962	1966	1968	1969

NUMBER AND PERCENTAGE OF LARGE ELEMENTARY SCHOOLS IN COUNTY SYSTEMS HAVING SPECIFIED NUMBERS OF ADDITIONAL AND TEMPORARY STRUCTURES

	ADDITIONS		TEMPORARIES	
0	26	33.3	43	55.1
1	17	21.8	19	24.4
2	24	30.8	12	15.4
3	11	14.1	4	5.1
TOTAL	78	100.0	78	100.0

NUMBER AND PERCENTAGE OF BUILDINGS OF LARGE ELEMENTARY SCHOOLS IN COUNTY SYSTEMS
UTILIZING BASEMENTS FOR INSTRUCTION OR OTHER PROGRAMS INVOLVING STUDENTS

ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
11 14.1	2 4.3	2 5.4	1 6.7	0 0.0	0 0.0	0 0.0

SCHOOLS USING BASEMENT OF SOME STRUCTURE FOR INSTRUCTION: 14 17.9%

NUMBER AND PERCENTAGE OF BUILDINGS OF LARGE ELEMENTARY SCHOOLS IN COUNTY SYSTEMS
HAVING SPECIFIED NUMBERS OF STORIES (EXCLUDING BASEMENT)

NUMBER OF STORIES	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
1 STORY	53 67.9	33 71.7	30 81.1	12 80.0	28 96.6	15 93.8	10 100.0
2 STORIES	22 28.2	12 26.1	7 18.9	3 20.0	1 3.4	1 6.3	0 0.0
3 STORIES	3 3.8	1 2.2	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
4 STORIES	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
TOTAL	78 100.0	46 100.0	37 100.0	15 100.0	29 100.0	16 100.0	10 100.0

TWO STORIES OR MORE BUILT BEFORE 1920

6 7.7	1 2.2	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
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ALL WOOD STRUCTURES OF MORE THAN ONE STORY

0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
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NUMBER AND PERCENTAGE OF BUILDINGS OF LARGE ELEMENTARY SCHOOLS IN COUNTY SYSTEMS
USING SELECTED EXTERIOR CONSTRUCTION MATERIALS

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
BRICK	63 80.8	41 89.1	34 91.9	13 86.7	2 6.9	0 0.0	0 0.0
WOOD	0 0.0	0 0.0	0 0.0	0 0.0	7 24.1	3 18.8	2 20.0
METAL	1 1.3	0 0.0	0 0.0	1 6.7	12 41.4	9 56.3	8 80.0
STONE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
CONCRETE	0 0.0	0 0.0	1 2.7	0 0.0	0 0.0	0 0.0	0 0.0
OTHER	0 0.0	1 2.2	0 0.0	0 0.0	2 6.9	1 6.3	0 0.0
BRICK, WOOD	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, METAL	4 5.1	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, STONE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, CONCRETE	4 5.1	2 4.3	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, OTHER	1 1.3	1 2.2	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD, METAL	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD, CONCRETE	1 1.3	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, METAL, CONCRETE	1 1.3	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, STONE, CONCRETE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD, METAL, CONCRETE	1 1.3	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
ALL OTHER COMBINATIONS	1 1.3	0 0.0	0 0.0	0 0.0	2 6.9	1 6.3	0 0.0
SPONSE	1 1.3	1 2.2	2 5.4	1 6.7	4 13.8	2 12.5	0 0.0
TOTAL	78 100.0	46 100.0	37 100.0	15 100.0	29 100.0	16 100.0	10 100.0

NUMBER AND PERCENTAGE OF BUILDINGS OF LARGE ELEMENTARY SCHOOLS IN COUNTY SYSTEMS
USING SPECIFIED TYPES OF HEATING, COOLING, AND LIGHTING EQUIPMENT

HEATING EQUIPMENT

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
JUST CENTRAL	63 80.8	36 78.3	26 70.3	8 53.3	6 20.7	5 31.3	4 40.0
JUST SPACE	7 9.0	4 8.7	6 16.2	4 26.7	16 55.2	9 56.3	6 60.0
CENTRAL & SPACE	4 5.1	2 4.3	2 5.4	0 0.0	2 6.9	1 6.3	0 0.0
NO RESPONSE	4 5.1	4 8.7	3 8.1	3 20.0	5 17.2	1 6.3	0 0.0
TOTAL	78 100.0	46 100.0	37 100.0	15 100.0	29 100.0	16 100.0	10 100.0

COOLING EQUIPMENT

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
JUST CENTRAL	18 23.1	9 19.6	5 13.5	4 26.7	13 44.8	7 43.8	6 60.0
JUST WINDOW UNIT	25 32.1	10 21.7	5 13.5	3 20.0	6 20.7	5 31.3	2 20.0
CENTRAL & WINDOW	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
NO MECHANICAL	35 44.9	27 58.7	27 73.0	8 53.3	10 34.5	4 25.0	2 20.0
TOTAL	78 100.0	46 100.0	37 100.0	15 100.0	29 100.0	16 100.0	10 100.0

WINDOW UNIT COOLING

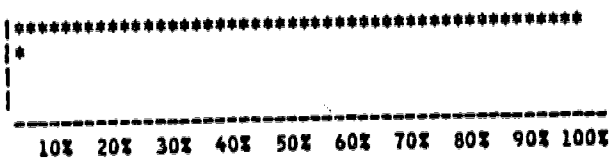
	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
ALL ROOMS	13 52.0	7 70.0	2 40.0	1 33.3	2 33.3	4 80.0	1 50.0
SELECTED ROOMS	9 36.0	1 10.0	1 20.0	1 33.3	1 16.7	1 20.0	1 50.0
NO RESPONSE	3 12.0	2 20.0	2 40.0	1 33.3	3 50.0	0 0.0	0 0.0
TOTAL	25 100.0	10 100.0	5 100.0	3 100.0	6 100.0	5 100.0	2 100.0

LIGHTING EQUIPMENT

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
INCANDESCENT	19 24.4	10 21.7	8 21.6	2 13.3	1 3.4	0 0.0	0 0.0
FLUCRESCENT	56 71.8	35 76.1	26 70.3	12 80.0	25 86.2	15 93.8	10 100.0
BOTH	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
OTHER	2 2.6	0 0.0	1 2.7	0 0.0	0 0.0	0 0.0	0 0.0
NO RESPONSE	1 1.3	1 2.2	2 5.4	1 6.7	3 10.3	1 6.3	0 0.0
TOTAL	78 100.0	46 100.0	37 100.0	15 100.0	29 100.0	16 100.0	10 100.0

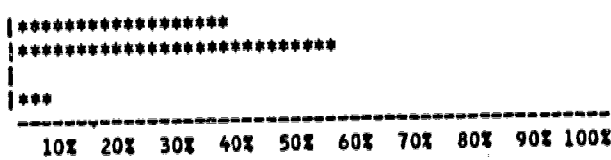
NUMBER AND PERCENTAGE OF LARGE ELEMENTARY SCHOOLS IN COUNTY SYSTEMS
 USING SPECIFIED SOURCES OF WATER SUPPLY

	NUMBER	PERCENTAGE
WATER UTILITY	76	97.4
ON PROPERTY	2	2.6
(WELLS, ETC.)	0	0.0
NO RESPONSE	0	0.0
TOTAL	78	100.0



NUMBER AND PERCENTAGE OF PRINCIPALS OF LARGE ELEMENTARY SCHOOLS IN COUNTY SYSTEMS
 EXPRESSING SPECIFIED FACILITY NEEDS

	NUMBER	PERCENTAGE
REPAIR/MAINTENANCE	29	37.2
CONSTRUCTION	43	55.1
OTHER (INCLUDING NO RESPONSE)	1	1.3
TOTAL	78	100.0



PLANT PROFILES: LARGE ELEMENTARY SCHOOLS IN COUNTY SYSTEMS

CRITERION	ADEQUATE		SUBSTANDARD	
	NUMBER	PERCENTAGE	NUMBER	PERCENTAGE
LOADING/CAPACITY RATIO <= 1	29	38.2	47	61.8
MEETS NATIONAL SCHOOL SIZE STANDARDS	0	0.0	78	100.0
MEETS NATIONAL SITE SIZE STANDARDS	15	20.0	60	80.0
ORIGINAL BUILDING 30 YRS OLD OR LESS	56	71.8	22	28.2
TEMPORARY STRUCTURES	43	55.1	35	44.9
BASEMENT USED FOR INSTRUCTION	64	82.1	14	17.9
BUILDING OF WOOD EXCLUSIVELY	69	88.5	9	11.5
CENTRAL HEATING IN ORIGINAL BUILDING	67	85.9	11	14.1
CENTRAL AIR OR ALL WINDOW UNITS	22	28.2	32	41.0
COMPLETE FLUORESCENT LIGHTING	48	61.5	10	12.8
WATER UTILITY	76	97.4	2	2.6
7 OF 11 OF ABOVE CRITERIA	38	48.7	3	3.8

181

298

SMALL MIDDLE SCHOOLS IN COUNTY SYSTEMS

6 RESPONSES

NUMBER AND PERCENTAGE OF SMALL MIDDLE SCHOOLS IN COUNTY SYSTEMS USING SPECIFIED PROPORTIONS OF SCHOOL PLANT CAPACITY

ENROLLMENT/CAPACITY RATIO	NUMBER	PERCENTAGE
ABOVE 0.0- 0.5	1	16.7
ABOVE 0.5- 0.8	2	33.3
ABOVE 0.8- 1.0	3	50.0
ABOVE 1.0- 1.5	0	0.0
ABOVE 1.5- 2.0	0	0.0
ABOVE 2.0-13.0	0	0.0
TOTAL	6	100.0

SCHOOLS THAT EXCEED CAPACITY: 0 0.0%

NUMBER AND PERCENTAGE OF SMALL MIDDLE SCHOOLS IN COUNTY SYSTEMS HAVING SITES OF SPECIFIED SIZES (IN ACRES)

ACRES	NUMBER	PERCENTAGE
0- LESS THAN 1	0	0.0
1- LESS THAN 5	2	33.3
5- LESS THAN 10	3	50.0
10- LESS THAN 20	1	16.7
20- LESS THAN 30	0	0.0
30- LESS THAN 50	0	0.0
50- LESS THAN 100	0	0.0
TOTAL	6	100.0

MEDIAN SCHOOL SITE SIZE IS 5 ACRES

NUMBER AND PERCENTAGE OF SMALL MIDDLE SCHOOLS IN COUNTY SYSTEMS MEETING SITE SIZE REQUIREMENTS: 0 0.0%

NUMBER AND PERCENTAGE OF BUILDINGS OF SMALL MIDDLE SCHOOLS IN COUNTY SYSTEMS
OCCURRING AT SPECIFIED STAGES OF THE SCHOOL LIFE CYCLE

AGE (IN YEARS)	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
60 OR OVER	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
40- LESS THAN 60	4 66.7	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
20- LESS THAN 40	2 33.3	2 50.0	0 0.0	1 100.0	0 0.0	0 0.0	0 0.0
LESS THAN 20	0 0.0	2 50.0	2 100.0	0 0.0	0 0.0	0 0.0	0 0.0
TOTAL	6 100.0	4 100.0	2 100.0	1 100.0	0 100.0	0 100.0	0 100.0

NUMBER AND PERCENTAGE OF BUILDINGS OF SMALL MIDDLE SCHOOLS IN COUNTY SYSTEMS
CONSTRUCTED OR ADDED IN SPECIFIED DECADES, 1840-1973

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
AFTER 1840 - 1870	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1870 - 1880	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1880 - 1890	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1890 - 1900	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1900 - 1910	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1910 - 1920	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1920 - 1930	3 50.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1930 - 1940	2 33.3	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1940 - 1950	1 16.7	2 50.0	0 0.0	1 100.0	0 0.0	0 0.0	0 0.0
AFTER 1950 - 1960	0 0.0	1 25.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1960 - 1970	0 0.0	1 25.0	2 100.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1970 - 1973	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
TOTAL	6 100.0	4 100.0	2 100.0	1 100.0	0 100.0	0 100.0	0 100.0

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
OLDEST STRUCTURE	1922	1941	1962	1950	0	0	0
MEAN YEAR OF CONSTRUCTION	1930	1953	1964	1950	0	0	0

NUMBER AND PERCENTAGE OF SMALL MIDDLE SCHOOLS IN COUNTY SYSTEMS
HAVING SPECIFIED NUMBERS OF ADDITIONAL AND TEMPORARY STRUCTURES

	ADDITIONS	TEMPORARIES
0	1 16.7	6 100.0
1	3 50.0	0 0.0
2	2 33.3	0 0.0
3	0 0.0	0 0.0
TOTAL	6 100.0	6 100.0

NUMBER AND PERCENTAGE OF BUILDINGS OF SMALL MIDDLE SCHOOLS IN COUNTY SYSTEMS
UTILIZING BASEMENTS FOR INSTRUCTION OR OTHER PROGRAMS INVOLVING STUDENTS

ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
1 16.7	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0

SCHOOLS USING BASEMENT OF SOME STRUCTURE FOR INSTRUCTION: 1 16.7%

NUMBER AND PERCENTAGE OF BUILDINGS OF SMALL MIDDLE SCHOOLS IN COUNTY SYSTEMS
HAVING SPECIFIED NUMBERS OF STORIES (EXCLUDING BASEMENT)

NUMBER OF STORIES	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
1 STORY	4 66.7	3 75.0	2 100.0	0 0.0	0 0.0	0 0.0	0 0.0
2 STORIES	2 33.3	1 25.0	0 0.0	1 100.0	0 0.0	0 0.0	0 0.0
3 STORIES	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
4 STORIES	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
TOTAL	6 100.0	4 100.0	2 100.0	1 100.0	0 100.0	0 100.0	0 100.0

TWO STORIES OR MORE BUILT BEFORE 1920

0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
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ALL WOOD STRUCTURES OF MORE THAN ONE STORY

0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
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NUMBER AND PERCENTAGE OF BUILDINGS OF SMALL MIDDLE SCHOOLS IN COUNTY SYSTEMS
USING SELECTED EXTERIOR CONSTRUCTION MATERIALS

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
BRICK	5 83.3	3 75.0	2 100.0	1 100.0	0 0.0	0 0.0	0 0.0
WOOD	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
METAL	0 0.0	1 25.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
STONE	1 16.7	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
CONCRETE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
OTHER	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, METAL	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, STONE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, CONCRETE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, OTHER	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD, METAL	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD, CONCRETE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, METAL, CONCRETE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, STONE, CONCRETE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD, METAL, CONCRETE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
ALL OTHER COMBINATIONS	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
NO RESPONSE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
TOTAL	6 100.0	4 100.0	2 100.0	1 100.0	0 100.0	0 100.0	0 100.0

NUMBER AND PERCENTAGE OF BUILDINGS OF SMALL MIDDLE SCHOOLS IN COUNTY SYSTEMS
USING SPECIFIED TYPES OF HEATING, COOLING, AND LIGHTING EQUIPMENT

HEATING EQUIPMENT

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
JUST CENTRAL	6 100.0	4 100.0	2 100.0	1 100.0	0 0.0	0 0.0	0 0.0
JUST SPACE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
CENTRAL & SPACE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
NO RESPONSE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
TOTAL	6 100.0	4 100.0	2 100.0	1 100.0	0 100.0	0 100.0	0 100.0

COOLING EQUIPMENT

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
JUST CENTRAL	0 0.0	1 25.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
JUST WINDOW UNIT	1 16.7	1 25.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
CENTRAL & WINDOW	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
NO MECHANICAL	5 83.3	2 50.0	2 100.0	1 100.0	0 0.0	0 0.0	0 0.0
TOTAL	6 100.0	4 100.0	2 100.0	1 100.0	0 100.0	0 100.0	0 100.0

WINDOW UNIT COOLING

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
ALL ROOMS	1 100.0	1 100.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
SELECTED ROOMS	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
NO RESPONSE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
TOTAL	1 100.0	1 100.0	0 100.0	0 100.0	0 100.0	0 100.0	0 100.0

LIGHTING EQUIPMENT

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
INCANDESCENT	4 66.7	2 50.0	1 50.0	1 100.0	0 0.0	0 0.0	0 0.0
FLUCRESCENT	2 33.3	1 25.0	1 50.0	0 0.0	0 0.0	0 0.0	0 0.0
BOTH	0 0.0	1 25.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
OTHER	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
NO RESPONSE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
TOTAL	6 100.0	4 100.0	2 100.0	1 100.0	0 100.0	0 100.0	0 100.0



NUMBER AND PERCENTAGE OF SMALL MIDDLE SCHOOLS IN COUNTY SYSTEMS
USING SPECIFIED SOURCES OF WATER SUPPLY

	NUMBER	PERCENTAGE	
WATER UTILITY	6	100.0	*****
PUMP ON PROPERTY	0	0.0	
OTHER (WELLS, ETC.)	0	0.0	
NO RESPONSE	0	0.0	
TOTAL	6	100.0	-----

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

NUMBER AND PERCENTAGE OF PRINCIPALS OF SMALL MIDDLE SCHOOLS IN COUNTY SYSTEMS
EXPRESSING SPECIFIED FACILITY NEEDS

	NUMBER	PERCENTAGE	
MAINTENANCE	4	66.7	*****
CONSTRUCTION	1	16.7	*****
BOTH	0	0.0	
NEITHER (INCLUDING NO RESPONSE)	1	16.7	*****
TOTAL	6	100.0	-----

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

PLANT PROFILES: SMALL MIDDLE SCHOOLS IN COUNTY SYSTEMS

CRITERION	ADEQUATE		SUBSTANDARD	
	NUMBER	PERCENTAGE	NUMBER	PERCENTAGE
1. ENROLLMENT/CAPACITY RATIO ≤ 1	6	100.0	0	0.0
2. MEETS NATIONAL SCHOOL SIZE STANDARDS	2	33.3	4	66.7
3. MEETS NATIONAL SITE SIZE STANDARDS	0	0.0	6	100.0
4. ORIGINAL BUILDING 30 YRS OLD OR LESS	1	16.7	5	83.3
5. NO TEMPORARY STRUCTURES	6	100.0	0	0.0
6. NO BASEMENT USED FOR INSTRUCTION	5	83.3	1	16.7
7. NO BUILDING OF WOOD EXCLUSIVELY	6	100.0	0	0.0
8. CENTRAL HEATING IN ORIGINAL BUILDING	6	100.0	0	0.0
9. CENTRAL AIR OR ALL WINDOW UNITS	1	16.7	4	66.7
10. COMPLETE FLUORESCENT LIGHTING	2	33.3	2	33.3
11. USE OF WATER UTILITY	6	100.0	0	0.0
12. MEETS 7 OF 11 OF ABOVE CRITERIA	4	66.7	0	0.0

DATA DISPLAY 4.5

MEDIUM MIDDLE SCHOOLS IN COUNTY SYSTEMS

40 RESPONDENTS

NUMBER AND PERCENTAGE OF MEDIUM MIDDLE SCHOOLS IN COUNTY SYSTEMS
USING SPECIFIED PROPORTIONS OF SCHOOL PLANT CAPACITY

ENROLLMENT/CAPACITY		NUMBER	PERCENTAGE	
ABCVE	RATIO			
ABCVE	0.0- 0.5	1	2.6	*
ABCVE	0.5- 0.8	3	7.7	****
ABOVE	0.8- 1.0	21	53.8	*****
ABCVE	1.0- 1.5	12	30.8	*****
ABCVE	1.5- 2.0	2	5.1	**
ABOVE	2.0-13.0	0	0.0	
TOTAL		39	100.0	-----

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

SCHOOLS THAT EXCEED CAPACITY: 14 35.9%

NUMBER AND PERCENTAGE OF MEDIUM MIDDLE SCHOOLS IN COUNTY SYSTEMS
HAVING SITES OF SPECIFIED SIZES (IN ACRES)

ACRES	NUMBER	PERCENTAGE	
0- LESS THAN 1	0	0.0	
1- LESS THAN 5	6	15.4	*****
5- LESS THAN 10	15	38.5	*****
10- LESS THAN 20	10	25.6	*****
20- LESS THAN 30	3	7.7	****
30- LESS THAN 50	3	7.7	****
50- LESS THAN 100	2	5.1	**
TOTAL	39	100.0	-----

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

MEDIAN SCHOOL SITE SIZE IS 8 ACRES

NUMBER AND PERCENTAGE OF MEDIUM MIDDLE SCHOOLS IN COUNTY SYSTEMS
MEETING SITE SIZE REQUIREMENTS: 5 12.8%

NUMBER AND PERCENTAGE OF BUILDINGS OF MEDIUM MIDDLE SCHOOLS IN COUNTY SYSTEMS
OCCURRING AT SPECIFIED STAGES OF THE SCHOOL LIFE CYCLE

AGE (IN YEARS)	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
60 OR OVER	2 5.1	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
40- LESS THAN 60	8 20.5	1 5.9	2 14.3	0 0.0	0 0.0	0 0.0	0 0.0
20- LESS THAN 40	12 30.8	4 23.5	4 28.6	2 40.0	1 20.0	0 0.0	0 0.0
LESS THAN 20	17 43.6	12 70.6	8 57.1	3 60.0	4 80.0	2 100.0	1 100.0
TOTAL	39 100.0	17 100.0	14 100.0	5 100.0	5 100.0	2 100.0	1 100.0

NUMBER AND PERCENTAGE OF BUILDINGS OF MEDIUM MIDDLE SCHOOLS IN COUNTY SYSTEMS
CONSTRUCTED OR ADDED IN SPECIFIED DECADES, 1840-1973

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
AFTER 1840 - 1870	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1870 - 1880	1 2.6	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1880 - 1890	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1890 - 1900	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1900 - 1910	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1910 - 1920	2 5.1	0 0.0	1 7.1	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1920 - 1930	6 15.4	1 5.9	1 7.1	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1930 - 1940	5 12.8	3 17.6	2 14.3	1 20.0	1 20.0	0 0.0	0 0.0
AFTER 1940 - 1950	4 10.3	1 5.9	1 7.1	1 20.0	0 0.0	0 0.0	0 0.0
AFTER 1950 - 1960	10 25.6	7 41.2	4 28.6	1 20.0	1 20.0	0 0.0	0 0.0
AFTER 1960 - 1970	8 20.5	5 29.4	5 35.7	2 40.0	2 40.0	1 50.0	0 0.0
AFTER 1970 - 1973	3 7.7	0 0.0	0 0.0	0 0.0	1 20.0	1 50.0	1 100.0
TOTAL	39 100.0	17 100.0	14 100.0	5 100.0	5 100.0	2 100.0	1 100.0

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
OLDEST STRUCTURE	1875	1926	1915	1940	1940	1966	1972
MEAN YEAR OF CONSTRUCTION	1946	1952	1951	1954	1962	1969	1972

NUMBER AND PERCENTAGE OF MEDIUM MIDDLE SCHOOLS IN COUNTY SYSTEMS
HAVING SPECIFIED NUMBERS OF ADDITIONAL AND TEMPORARY STRUCTURES

	ADDITIONS	TEMPORARIES
0	19 47.5	33 82.5
1	9 22.5	6 15.0
2	9 22.5	1 2.5
3	3 7.5	0 0.0
TOTAL	40 100.0	40 100.0

NUMBER AND PERCENTAGE OF BUILDINGS OF MEDIUM MIDDLE SCHOOLS IN COUNTY SYSTEMS
UTILIZING BASEMENTS FOR INSTRUCTION OR OTHER PROGRAMS INVOLVING STUDENTS

ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
12 30.0	5 29.4	3 21.4	2 40.0	0 0.0	0 0.0	0 0.0

SCHOOLS USING BASEMENT OF SOME STRUCTURE FOR INSTRUCTION: 16 40.0%

NUMBER AND PERCENTAGE OF BUILDINGS OF MEDIUM MIDDLE SCHOOLS IN COUNTY SYSTEMS
HAVING SPECIFIED NUMBERS OF STORIES (EXCLUDING BASEMENT)

NUMBER OF STORIES	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
1 STORY	22 55.0	12 70.6	10 71.4	3 60.0	4 80.0	1 50.0	1 100.0
2 STORIES	11 27.5	4 23.5	3 21.4	2 40.0	1 20.0	1 50.0	0 0.0
3 STORIES	7 17.5	1 5.9	1 7.1	0 0.0	0 0.0	0 0.0	0 0.0
4 STORIES	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
TOTAL	40 100.0	17 100.0	14 100.0	5 100.0	5 100.0	2 100.0	1 100.0

TWO STORIES OR MORE BUILT BEFORE 1920

3 7.5	0 0.0	1 7.1	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
ALL WOOD STRUCTURES OF MORE THAN ONE STORY							
0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0

NUMBER AND PERCENTAGE OF BUILDINGS OF MEDIUM MIDDLE SCHOOLS IN COUNTY SYSTEMS
USING SELECTED EXTERIOR CONSTRUCTION MATERIALS

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
BRICK	25 62.5	12 70.6	11 78.6	5 100.0	1 20.0	0 0.0	0 0.0
WOOD	0 0.0	1 5.9	0 0.0	0 0.0	1 20.0	0 0.0	0 0.0
METAL	0 0.0	0 0.0	0 0.0	0 0.0	2 40.0	2 100.0	0 0.0
STONE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
CONCRETE	2 5.0	1 5.9	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
OTHER	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD	0 0.0	0 0.0	0 0.0	0 0.0	1 20.0	0 0.0	0 0.0
BRICK, METAL	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, STONE	0 0.0	1 5.9	1 7.1	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, CONCRETE	10 25.0	2 11.8	1 7.1	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, OTHER	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD, METAL	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD, CONCRETE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, METAL, CONCRETE	1 2.5	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, STONE, CONCRETE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD, METAL, CONCRETE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
ALL OTHER COMBINATIONS	2 5.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
NO RESPONSE	0 0.0	0 0.0	1 7.1	0 0.0	0 0.0	0 0.0	1 100.0
TOTAL	40 100.0	17 100.0	14 100.0	5 100.0	5 100.0	2 100.0	1 100.0

NUMBER AND PERCENTAGE OF BUILDINGS OF MEDIUM MIDDLE SCHOOLS IN COUNTY SYSTEMS
USING SPECIFIED TYPES OF HEATING, COOLING, AND LIGHTING EQUIPMENT

HEATING EQUIPMENT

	ORIGINAL		ADD1		ADD2		ADD3		TEMP1		TEMP2		TEMP3	
JUST CENTRAL	35	87.5	13	76.5	11	78.6	5	100.0	2	40.0	1	50.0	0	0.0
JUST SPACE	4	10.0	4	23.5	2	14.3	0	0.0	3	60.0	1	50.0	0	0.0
CENTRAL & SPACE	1	2.5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
NO RESPONSE	0	0.0	0	0.0	1	7.1	0	0.0	0	0.0	0	0.0	1	100.0
TOTAL	40	100.0	17	100.0	14	100.0	5	100.0	5	100.0	2	100.0	1	100.0

COOLING EQUIPMENT

	ORIGINAL		ADD1		ADD2		ADD3		TEMP1		TEMP2		TEMP3	
JUST CENTRAL	11	27.5	1	5.9	0	0.0	0	0.0	0	0.0	1	50.0	0	0.0
JUST WINDOW UNIT	7	17.5	1	5.9	1	7.1	1	20.0	2	40.0	0	0.0	0	0.0
CENTRAL & WINDOW	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
NO MECHANICAL	22	55.0	15	88.2	13	92.9	4	80.0	3	60.0	1	50.0	1	100.0
TOTAL	40	100.0	17	100.0	14	100.0	5	100.0	5	100.0	2	100.0	1	100.0

WINDOW UNIT COOLING

	ORIGINAL		ADD1		ADD2		ADD3		TEMP1		TEMP2		TEMP3	
ALL ROOMS	3	42.9	1	100.0	1	100.0	0	0.0	2	100.0	0	0.0	0	0.0
SELECTED ROOMS	3	42.9	0	0.0	0	0.0	1	100.0	0	0.0	0	0.0	0	0.0
NO RESPONSE	1	14.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
TOTAL	7	100.0	1	100.0	1	100.0	1	100.0	2	100.0	0	100.0	0	100.0

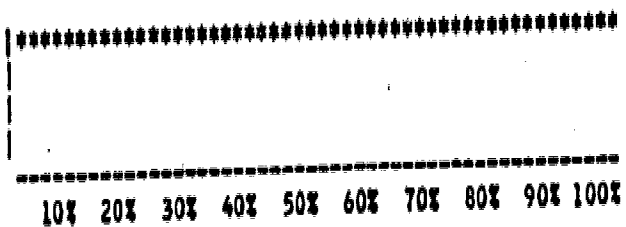
LIGHTING EQUIPMENT

	ORIGINAL		ADD1		ADD2		ADD3		TEMP1		TEMP2		TEMP3	
INCANDESCENT	9	22.5	8	47.1	4	28.6	2	40.0	2	40.0	1	50.0	0	0.0
FLUORESCENT	26	65.0	7	41.2	7	50.0	3	60.0	3	60.0	0	0.0	0	0.0
BOTH	4	10.0	2	11.8	2	14.3	0	0.0	0	0.0	0	0.0	0	0.0
CTHER	2	5.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
NO RESPONSE	0	0.0	0	0.0	1	7.1	0	0.0	0	0.0	1	50.0	1	100.0
TOTAL	40	100.0	17	100.0	14	100.0	5	100.0	5	100.0	2	100.0	1	100.0

190

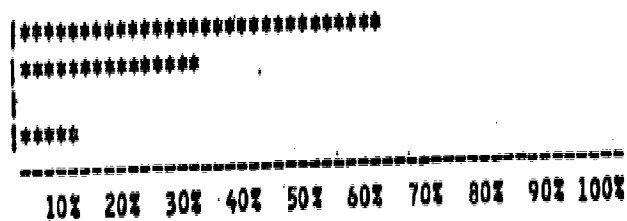
NUMBER AND PERCENTAGE OF MEDIUM MIDDLE SCHOOLS IN COUNTY SYSTEMS
USING SPECIFIED SOURCES OF WATER SUPPLY

	NUMBER	PERCENTAGE
WATER UTILITY	40	100.0
PUMP ON PROPERTY	0	0.0
OTHER (WELLS, ETC.)	0	0.0
NO RESPONSE	0	0.0
TOTAL	40	100.0



NUMBER AND PERCENTAGE OF PRINCIPALS OF MEDIUM MIDDLE SCHOOLS IN COUNTY SYSTEMS
EXPRESSING SPECIFIED FACILITY NEEDS

	NUMBER	PERCENTAGE
MAINTENANCE	24	60.0
CONSTRUCTION	12	30.0
BOTH	0	0.0
NEITHER (INCLUDING NO RESPONSE)	4	10.0
TOTAL	40	100.0



PLANT PROFILES: MEDIUM MIDDLE SCHOOLS IN COUNTY SYSTEMS

CRITERION	ADEQUATE		SUBSTANDARD	
	NUMBER	PERCENTAGE	NUMBER	PERCENTAGE
1. ENROLLMENT/CAPACITY RATIO ≤ 1	25	64.1	14	35.9
2. MEETS NATIONAL SCHOOL SIZE STANDARDS	40	100.0	0	0.0
3. MEETS NATIONAL SITE SIZE STANDARDS	5	12.8	34	87.2
4. ORIGINAL BUILDING 30 YRS OLD OR LESS	25	64.1	14	35.9
5. NO TEMPORARY STRUCTURES	33	82.5	7	17.5
6. NO BASEMENT USED FOR INSTRUCTION	24	60.0	16	40.0
7. NO BUILDING OF WOOD EXCLUSIVELY	38	95.0	2	5.0
8. CENTRAL HEATING IN ORIGINAL BUILDING	36	90.0	4	10.0
9. CENTRAL AIR OR ALL WINDOW UNITS	13	32.5	22	55.0
10. COMPLETE FLUORESCENT LIGHTING	27	67.5	6	15.0
11. USE OF WATER UTILITY	40	100.0	0	0.0
12. MEETS 7 OF 11 OF ABOVE CRITERIA	27	67.5	0	0.0

LARGE MIDDLE SCHOOLS IN COUNTY SYSTEMS

46 RESPONDENTS

NUMBER AND PERCENTAGE OF LARGE MIDDLE SCHOOLS IN COUNTY SYSTEMS
USING SPECIFIED PROPORTIONS OF SCHOOL PLANT CAPACITY

ENROLLMENT/CAPACITY RATIO		NUMBER	PERCENTAGE	
ABOVE	0.0- 0.5	0	0.0	
ABOVE	0.5- 0.8	4	8.9	****
ABOVE	0.8- 1.0	18	40.0	*****
ABOVE	1.0- 1.5	23	51.1	*****
ABOVE	1.5- 2.0	0	0.0	
ABOVE	2.0-13.0	0	0.0	
TOTAL		45	100.0	-----

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

SCHOOLS THAT EXCEED CAPACITY: 23 51.1%

NUMBER AND PERCENTAGE OF LARGE MIDDLE SCHOOLS IN COUNTY SYSTEMS
HAVING SITES OF SPECIFIED SIZES (IN ACRES)

ACRES	NUMBER	PERCENTAGE	
0- LESS THAN 1	0	0.0	
1- LESS THAN 5	3	6.5	***
5- LESS THAN 10	12	26.1	*****
10- LESS THAN 20	13	28.3	*****
20- LESS THAN 30	9	19.6	*****
30- LESS THAN 50	9	19.6	*****
50- LESS THAN 100	0	0.0	
TOTAL	46	100.0	-----

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

MEDIAN SCHOOL SITE SIZE IS 15 ACRES

NUMBER AND PERCENTAGE OF LARGE MIDDLE SCHOOLS IN COUNTY SYSTEMS
MEETING SITE SIZE REQUIREMENTS: 9 19.6%

NUMBER AND PERCENTAGE OF BUILDINGS OF LARGE MIDDLE SCHOOLS IN COUNTY SYSTEMS
OCCURRING AT SPECIFIED STAGES OF THE SCHOOL LIFE CYCLE

AGE (IN YEARS)	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
60 OR OVER	3 6.5	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
40- LESS THAN 60	5 10.9	0 0.0	1 6.3	0 0.0	0 0.0	0 0.0	0 0.0
20- LESS THAN 40	7 15.2	5 26.3	2 12.5	0 0.0	0 0.0	0 0.0	0 0.0
LESS THAN 20	31 67.4	14 73.7	13 81.3	7 100.0	15 100.0	6 100.0	3 100.0
TOTAL	46 100.0	19 100.0	16 100.0	7 100.0	15 100.0	6 100.0	3 100.0

NUMBER AND PERCENTAGE OF BUILDINGS OF LARGE MIDDLE SCHOOLS IN COUNTY SYSTEMS
CONSTRUCTED OR ADDED IN SPECIFIED DECADES, 1840-1973

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
AFTER 1840 - 1870	1 2.2	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1870 - 1880	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1880 - 1890	1 2.2	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1890 - 1900	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1900 - 1910	1 2.2	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1910 - 1920	0 0.0	0 0.0	1 6.3	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1920 - 1930	4 8.7	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1930 - 1940	5 10.9	2 10.5	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1940 - 1950	3 6.5	3 15.8	1 6.3	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1950 - 1960	8 17.4	7 36.8	8 50.0	2 28.6	1 6.7	1 16.7	0 0.0
AFTER 1960 - 1970	18 39.1	6 31.6	6 37.5	5 71.4	9 60.0	5 83.3	1 33.3
AFTER 1970 - 1973	5 10.9	1 5.3	0 0.0	0 0.0	5 33.3	0 0.0	2 66.7
TOTAL	46 100.0	19 100.0	16 100.0	7 100.0	15 100.0	6 100.0	3 100.0

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
OLDEST STRUCTURE	1854	1934	1915	1955	1956	1960	1965
MEAN YEAR OF CONSTRUCTION	1951	1956	1956	1962	1968	1967	1969

NUMBER AND PERCENTAGE OF LARGE MIDDLE SCHOOLS IN COUNTY SYSTEMS
HAVING SPECIFIED NUMBERS OF ADDITIONAL AND TEMPORARY STRUCTURES

	ADDITIONS	TEMPORARIES
0	25 54.3	29 63.0
1	6 13.0	11 23.9
2	9 19.6	5 10.9
3	6 13.0	1 2.2
TOTAL	46 100.0	46 100.0

NUMBER AND PERCENTAGE OF BUILDINGS OF LARGE MIDDLE SCHOOLS IN COUNTY SYSTEMS
UTILIZING BASEMENTS FOR INSTRUCTION OR OTHER PROGRAMS INVOLVING STUDENTS

ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
8 17.4	2 10.5	3 18.8	2 28.6	0 0.0	0 0.0	0 0.0

SCHOOLS USING BASEMENT OF SOME STRUCTURE FOR INSTRUCTION: 10 21.7%

NUMBER AND PERCENTAGE OF BUILDINGS OF LARGE MIDDLE SCHOOLS IN COUNTY SYSTEMS
HAVING SPECIFIED NUMBERS OF STORIES (EXCLUDING BASEMENT)

NUMBER OF STORIES	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
1 STORY	15 32.6	6 31.6	6 37.5	3 42.9	14 93.3	6 100.0	3 100.0
2 STORIES	26 56.5	12 63.2	6 37.5	4 57.1	1 6.7	0 0.0	0 0.0
3 STORIES	5 10.9	1 5.3	4 25.0	0 0.0	0 0.0	0 0.0	0 0.0
4 STORIES	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
TOTAL	46 100.0	19 100.0	16 100.0	7 100.0	15 100.0	6 100.0	3 100.0

TWO STORIES OR MORE BUILT BEFORE 1920

3 6.5	0 0.0	1 6.3	0 0.0	0 0.0	0 0.0	0 0.0
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ALL WOOD STRUCTURES OF MORE THAN ONE STORY

0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
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NUMBER AND PERCENTAGE OF BUILDINGS OF LARGE MIDDLE SCHOOLS IN COUNTY SYSTEMS
USING SELECTED EXTERIOR CONSTRUCTION MATERIALS

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
BRICK	34 73.9	17 89.5	15 93.8	5 71.4	2 13.3	1 16.7	0 0.0
WCCO	0 0.0	0 0.0	0 0.0	0 0.0	3 20.0	0 0.0	0 0.0
METAL	0 0.0	0 0.0	0 0.0	0 0.0	9 60.0	3 50.0	2 66.7
STONE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
CONCRETE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
OTHER	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, METAL	2 4.3	1 5.3	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, STONE	2 4.3	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, CONCRETE	3 6.5	0 0.0	0 0.0	1 14.3	0 0.0	0 0.0	0 0.0
BRICK, OTHER	1 2.2	1 5.3	1 6.3	1 14.3	0 0.0	0 0.0	0 0.0
BRICK, WOOD, METAL	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD, CONCRETE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, METAL, CONCRETE	3 6.5	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, STONE, CONCRETE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD, METAL, CONCRETE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
ALL OTHER COMBINATIONS	1 2.2	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
NO RESPONSE	0 0.0	0 0.0	0 0.0	0 0.0	1 6.7	2 33.3	1 33.3
TOTAL	46 100.0	19 100.0	16 100.0	7 100.0	15 100.0	6 100.0	3 100.0

194

NUMBER AND PERCENTAGE OF BUILDINGS OF LARGE MIDDLE SCHOOLS IN COUNTY SYSTEMS
USING SPECIFIED TYPES OF HEATING, COOLING, AND LIGHTING EQUIPMENT

HEATING EQUIPMENT

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
JUST CENTRAL	44 95.7	17 89.5	15 93.8	7 100.0	3 20.0	0 0.0	0 0.0
JUST SPACE	2 4.3	2 10.5	1 6.3	0 0.0	11 73.3	4 66.7	1 33.3
CENTRAL & SPACE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	1 33.3
NO RESPONSE	0 0.0	0 0.0	0 0.0	0 0.0	1 6.7	2 33.3	1 33.3
TOTAL	46 100.0	19 100.0	16 100.0	7 100.0	15 100.0	6 100.0	3 100.0

COOLING EQUIPMENT

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
JUST CENTRAL	22 47.8	3 15.8	2 12.5	0 0.0	3 20.0	1 16.7	0 0.0
JUST WINDOW UNIT	2 4.3	4 21.1	2 12.5	1 14.3	10 66.7	1 16.7	1 33.3
CENTRAL & WINDOW	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
NO MECHANICAL	22 47.8	12 63.2	12 75.0	6 85.7	2 13.3	4 66.7	2 66.7
TOTAL	46 100.0	19 100.0	16 100.0	7 100.0	15 100.0	6 100.0	3 100.0

WINDOW UNIT COOLING

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
ALL ROOMS	0 0.0	1 25.0	1 50.0	0 0.0	3 30.0	0 0.0	0 0.0
SELECTED ROOMS	2 100.0	2 50.0	1 50.0	1 100.0	1 10.0	0 0.0	0 0.0
NO RESPONSE	0 0.0	1 25.0	0 0.0	0 0.0	6 60.0	1 100.0	1 100.0
TOTAL	2 100.0	4 100.0	2 100.0	1 100.0	10 100.0	1 100.0	1 100.0

LIGHTING EQUIPMENT

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
INCANDESCENT	10 21.7	5 26.3	4 25.0	1 14.3	1 6.7	0 0.0	0 0.0
FLUORESCENT	35 76.1	12 63.2	12 75.0	6 85.7	13 86.7	3 50.0	2 66.7
BOTH	1 2.2	1 5.3	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
OTHER	1 2.2	1 5.3	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
NO RESPONSE	0 0.0	0 0.0	0 0.0	0 0.0	1 6.7	3 50.0	1 33.3
TOTAL	46 100.0	19 100.0	16 100.0	7 100.0	15 100.0	6 100.0	3 100.0

NUMBER AND PERCENTAGE OF LARGE MIDDLE SCHOOLS IN COUNTY SYSTEMS
USING SPECIFIED SOURCES OF WATER SUPPLY

	NUMBER	PERCENTAGE
WATER UTILITY	46	100.0
PUMP ON PROPERTY	0	0.0
OTHER (WELLS, ETC.)	0	0.0
NO RESPONSE	0	0.0
TOTAL	46	100.0

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

NUMBER AND PERCENTAGE OF PRINCIPALS OF LARGE MIDDLE SCHOOLS IN COUNTY SYSTEMS
EXPRESSING SPECIFIED FACILITY NEEDS

	NUMBER	PERCENTAGE
MAINTENANCE	23	50.0
CONSTRUCTION	17	37.0
BOTH	1	2.2
NEITHER (INCLUDING NO RESPONSE)	5	10.9
TOTAL	46	100.0

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

PLANT PROFILES: LARGE MIDDLE SCHOOLS IN COUNTY SYSTEMS

CRITERION	ADEQUATE		SUBSTANDARD	
	NUMBER	PERCENTAGE	NUMBER	PERCENTAGE
1. ENROLLMENT/CAPACITY RATIO \leq 1	22	48.9	23	51.1
2. MEETS NATIONAL SCHOOL SIZE STANDARDS	0	0.0	46	100.0
3. MEETS NATIONAL SITE SIZE STANDARDS	9	19.6	37	80.4
4. ORIGINAL BUILDING 30 YRS OLD OR LESS	32	69.6	14	30.4
5. NO TEMPORARY STRUCTURES	29	63.0	17	37.0
6. NO BASEMENT USED FOR INSTRUCTION	36	78.3	10	21.7
7. NO BUILDING OF WOOD EXCLUSIVELY	43	93.5	3	6.5
8. CENTRAL HEATING IN ORIGINAL BUILDING	44	95.7	2	4.3
9. CENTRAL AIR OR ALL WINDOW UNITS	22	47.8	17	37.0
10. COMPLETE FLUORESCENT LIGHTING	33	71.7	5	10.9
11. USE OF WATER UTILITY	46	100.0	0	0.0
12. MEETS 7 OF 11 OF ABOVE CRITERIA	27	58.7	3	6.5

DATA DISPLAY 4.7

SMALL SECONDARY SCHOOLS IN COUNTY SYSTEMS

18 RESPONDENTS

NUMBER AND PERCENTAGE OF SMALL SECONDARY SCHOOLS IN COUNTY SYSTEMS USING SPECIFIED PROPORTIONS OF SCHOOL PLANT CAPACITY

ENROLLMENT/CAPACITY RATIO	NUMBER	PERCENTAGE	
ABOVE 0.0- 0.5	2	11.1	****
ABOVE 0.5- 0.8	8	44.4	*****
ABOVE 0.8- 1.0	5	27.8	*****
ABOVE 1.0- 1.5	3	16.7	*****
ABOVE 1.5- 2.0	0	0.0	
ABOVE 2.0-13.0	0	0.0	
TOTAL	18	100.0	

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

SCHOOLS THAT EXCEED CAPACITY: 3 16.7%

NUMBER AND PERCENTAGE OF SMALL SECONDARY SCHOOLS IN COUNTY SYSTEMS HAVING SITES OF SPECIFIED SIZES (IN ACRES)

ACRES	NUMBER	PERCENTAGE	
0- LESS THAN 1	0	0.0	
1- LESS THAN 5	5	29.4	*****
5- LESS THAN 10	3	17.6	*****
10- LESS THAN 20	7	41.2	*****
20- LESS THAN 30	2	11.8	*****
30- LESS THAN 50	0	0.0	
50- LESS THAN 100	0	0.0	
TOTAL	17	100.0	

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

MEDIAN SCHOOL SITE SIZE IS 10 ACRES

NUMBER AND PERCENTAGE OF SMALL SECONDARY SCHOOLS IN COUNTY SYSTEMS MEETING SITE SIZE REQUIREMENTS: 0 0.0%

NUMBER AND PERCENTAGE OF BUILDINGS OF SMALL SECONDARY SCHOOLS IN COUNTY SYSTEMS OCCURRING AT SPECIFIED STAGES OF THE SCHOOL LIFE CYCLE

AGE (IN YEARS)	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
60 OR OVER	1 5.9	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
40- LESS THAN 60	3 17.6	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
20- LESS THAN 40	6 35.3	3 33.3	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
LESS THAN 20	7 41.2	6 66.7	6 100.0	2 100.0	1 100.0	0 0.0	0 0.0
TOTAL	17 100.0	9 100.0	6 100.0	2 100.0	1 100.0	0 100.0	0 100.0

NUMBER AND PERCENTAGE OF BUILDINGS OF SMALL SECONDARY SCHOOLS IN COUNTY SYSTEMS CONSTRUCTED OR ADDED IN SPECIFIED DECADES, 1840-1973

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
AFTER 1840 - 1870	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1870 - 1880	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1880 - 1890	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1890 - 1900	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1900 - 1910	1 5.9	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1910 - 1920	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1920 - 1930	3 17.6	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1930 - 1940	1 5.9	2 22.2	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1940 - 1950	3 17.6	1 11.1	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1950 - 1960	5 29.4	3 33.3	1 16.7	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1960 - 1970	4 23.5	3 33.3	4 66.7	2 100.0	0 0.0	0 0.0	0 0.0
AFTER 1970 - 1973	0 0.0	0 0.0	1 16.7	0 0.0	1 100.0	0 0.0	0 0.0
TOTAL	17 100.0	9 100.0	6 100.0	2 100.0	1 100.0	0 100.0	0 100.0

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
OLDEST STRUCTURE	1908	1934	1956	1965	1971	0	0
MEAN YEAR OF CONSTRUCTION	1947	1955	1963	1965	1971	0	0

NUMBER AND PERCENTAGE OF SMALL SECONDARY SCHOOLS IN COUNTY SYSTEMS HAVING SPECIFIED NUMBERS OF ADDITIONAL AND TEMPORARY STRUCTURES

	ADDITIONS	TEMPORARIES
0	8 44.4	17 94.4
1	4 22.2	1 5.6
2	5 27.8	0 0.0
3	1 5.6	0 0.0
TOTAL	18 100.0	18 100.0

NUMBER AND PERCENTAGE OF BUILDINGS OF SMALL SECONDARY SCHOOLS IN COUNTY SYSTEMS
UTILIZING BASEMENTS FOR INSTRUCTION OR OTHER PROGRAMS INVOLVING STUDENTS

ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
5 27.8	2 22.2	1 16.7	0 0.0	0 0.0	0 0.0	0 0.0

SCHOOLS USING BASEMENT OF SOME STRUCTURE FOR INSTRUCTION: 5 27.8%

NUMBER AND PERCENTAGE OF BUILDINGS OF SMALL SECONDARY SCHOOLS IN COUNTY SYSTEMS
HAVING SPECIFIED NUMBERS OF STORIES (EXCLUDING BASEMENT)

NUMBER OF STORIES	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
1 STORY	14 77.8	8 88.9	5 83.3	2 100.0	1 100.0	0 0.0	0 0.0
2 STORIES	3 16.7	1 11.1	1 16.7	0 0.0	0 0.0	0 0.0	0 0.0
3 STORIES	1 5.6	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
4 STORIES	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
TOTAL	18 100.0	9 100.0	6 100.0	2 100.0	1 100.0	0 100.0	0 100.0

TWO STORIES OR MORE BUILT BEFORE 1920	1 5.6	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
ALL WOOD STRUCTURES OF MORE THAN ONE STORY	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0

NUMBER AND PERCENTAGE OF BUILDINGS OF SMALL SECONDARY SCHOOLS IN COUNTY SYSTEMS
USING SELECTED EXTERIOR CONSTRUCTION MATERIALS

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
BRICK	13 72.2	8 88.9	5 83.3	1 50.0	1 100.0	0 0.0	0 0.0
WOOD	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
METAL	0 0.0	0 0.0	0 0.0	1 50.0	0 0.0	0 0.0	0 0.0
STONE	1 5.6	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
CONCRETE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
OTHER	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD	1 5.6	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, METAL	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, STONE	1 5.6	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, CONCRETE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, OTHER	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD, METAL	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD, CONCRETE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, METAL, CONCRETE	2 11.1	1 11.1	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, STONE, CONCRETE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD, METAL, CONCRETE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
ALL OTHER COMBINATIONS	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
NO RESPONSE	0 0.0	0 0.0	1 16.7	0 0.0	0 0.0	0 0.0	0 0.0
TOTAL	18 100.0	9 100.0	6 100.0	2 100.0	1 100.0	0 100.0	0 100.0

NUMBER AND PERCENTAGE OF BUILDINGS OF SMALL SECONDARY SCHOOLS IN COUNTY SYSTEMS
USING SPECIFIED TYPES OF HEATING, COOLING, AND LIGHTING EQUIPMENT

HEATING EQUIPMENT

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
JUST CENTRAL	16 88.9	8 88.9	5 83.3	2 100.0	1 100.0	0 0.0	0 0.0
JUST SPACE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
CENTRAL & SPACE	2 11.1	1 11.1	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
NO RESPONSE	0 0.0	0 0.0	1 16.7	0 0.0	0 0.0	0 0.0	0 0.0
TOTAL	18 100.0	9 100.0	6 100.0	2 100.0	1 100.0	0 100.0	0 100.0

COOLING EQUIPMENT

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
JUST CENTRAL	3 16.7	1 11.1	1 16.7	0 0.0	1 100.0	0 0.0	0 0.0
JUST WINDOW UNIT	4 22.2	2 22.2	1 16.7	1 50.0	0 0.0	0 0.0	0 0.0
CENTRAL & WINDOW	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
NO MECHANICAL	11 61.1	6 66.7	4 66.7	1 50.0	0 0.0	0 0.0	0 0.0
TOTAL	18 100.0	9 100.0	6 100.0	2 100.0	1 100.0	0 100.0	0 100.0

WINDOW UNIT COOLING

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
ALL ROOMS	1 25.0	1 50.0	0 0.0	1 100.0	0 0.0	0 0.0	0 0.0
SELECTED ROOMS	3 75.0	1 50.0	1 100.0	0 0.0	0 0.0	0 0.0	0 0.0
NO RESPONSE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
TOTAL	4 100.0	2 100.0	1 100.0	1 100.0	0 100.0	0 100.0	0 100.0

LIGHTING EQUIPMENT

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
INCANDESCENT	8 44.4	4 44.4	2 33.3	2 100.0	1 100.0	0 0.0	0 0.0
FLUORESCENT	9 50.0	5 55.6	3 50.0	0 0.0	0 0.0	0 0.0	0 0.0
BOTH	1 5.6	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
OTHER	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
NO RESPONSE	0 0.0	0 0.0	1 16.7	0 0.0	0 0.0	0 0.0	0 0.0
TOTAL	18 100.0	9 100.0	6 100.0	2 100.0	1 100.0	0 100.0	0 100.0

NUMBER AND PERCENTAGE OF SMALL SECONDARY SCHOOLS IN COUNTY SYSTEMS
USING SPECIFIED SOURCES OF WATER SUPPLY

	NUMBER	PERCENTAGE	
WATER UTILITY	13	72.2	*****
PUMP ON PROPERTY	5	27.8	*****
OTHER (WELLS; ETC.)	0	0.0	
NO RESPONSE	0	0.0	
TOTAL	18	100.0	-----

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

NUMBER AND PERCENTAGE OF PRINCIPALS OF SMALL SECONDARY SCHOOLS IN COUNTY SYSTEMS
EXPRESSING SPECIFIED FACILITY NEEDS

	NUMBER	PERCENTAGE	
MAINTENANCE	10	55.6	*****
CONSTRUCTION	6	33.3	*****
BOTH	0	0.0	
NEITHER (INCLUDING NO RESPONSE)	2	11.1	*****
TOTAL	18	100.0	-----

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

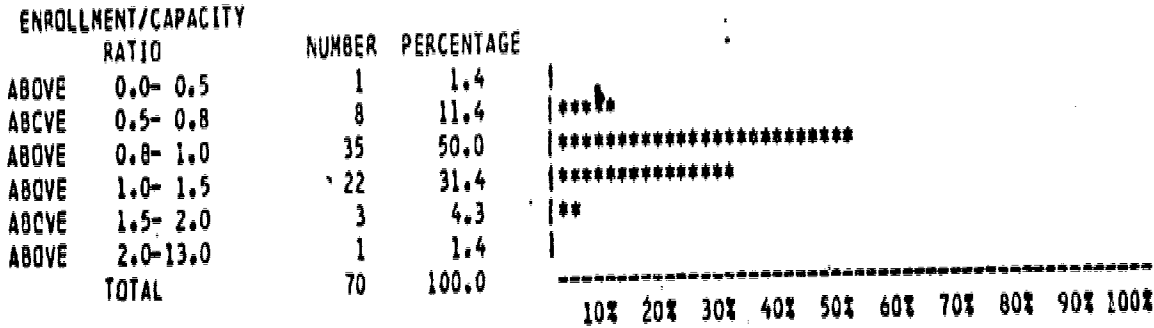
PLANT PROFILES: SMALL SECONDARY SCHOOLS IN COUNTY SYSTEMS

CRITERION	ADEQUATE		SUBSTANDARD	
	NUMBER	PERCENTAGE	NUMBER	PERCENTAGE
1. ENROLLMENT/CAPACITY RATIO <= 1	15	83.3	3	16.7
2. MEETS NATIONAL SCHOOL SIZE STANDARDS	8	44.4	10	55.6
3. MEETS NATIONAL SITE SIZE STANDARDS	0	0.0	17	100.0
4. ORIGINAL BUILDING 30 YRS OLD OR LESS	12	70.6	5	29.4
5. NO TEMPORARY STRUCTURES	17	94.4	1	5.6
6. NO BASEMENT USED FOR INSTRUCTION	13	72.2	5	27.8
7. NO BUILDING OF WOOD EXCLUSIVELY	18	100.0	0	0.0
8. CENTRAL HEATING IN ORIGINAL BUILDING	18	100.0	0	0.0
9. CENTRAL AIR OR ALL WINDOW UNITS	4	22.2	10	55.6
10. COMPLETE FLUORESCENT LIGHTING	9	50.0	5	27.8
11. USE OF WATER UTILITY	13	72.2	5	27.8
7 OF 11 OF ABOVE CRITERIA	10	55.6	0	0.0

MEDIUM SECONDARY SCHOOLS IN COUNTY SYSTEMS

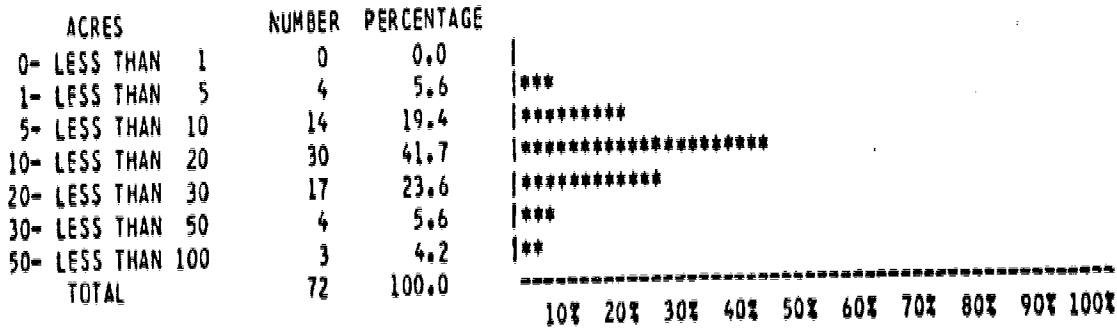
72 RESPONDENTS

NUMBER AND PERCENTAGE OF MEDIUM SECONDARY SCHOOLS IN COUNTY SYSTEMS
USING SPECIFIED PROPORTIONS OF SCHOOL PLANT CAPACITY



SCHOOLS THAT EXCEED CAPACITY: 26 37.1%

NUMBER AND PERCENTAGE OF MEDIUM SECONDARY SCHOOLS IN COUNTY SYSTEMS
HAVING SITES OF SPECIFIED SIZES (IN ACRES)



MEDIAN SCHOOL SITE SIZE IS 15 ACRES

NUMBER AND PERCENTAGE OF MEDIUM SECONDARY SCHOOLS IN COUNTY SYSTEMS
MEETING SITE SIZE REQUIREMENTS: 5 6.9%

NUMBER AND PERCENTAGE OF BUILDINGS OF MEDIUM SECONDARY SCHOOLS IN COUNTY SYSTEMS
OCCURRING AT SPECIFIED STAGES OF THE SCHOOL LIFE CYCLE

AGE (IN YEARS)	ORIGINAL		ADD1		ADD2		ADD3		TEMP1		TEMP2		TEMP3	
60 OR OVER	1	1.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
40- LESS THAN 60	9	12.9	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
20- LESS THAN 40	23	32.9	8	24.2	0	0.0	1	9.1	0	0.0	0	0.0	0	0.0
LESS THAN 20	37	52.9	25	75.8	17	100.0	10	90.9	7	100.0	3	100.0	2	100.0
TOTAL	70	100.0	33	100.0	17	100.0	11	100.0	7	100.0	3	100.0	2	100.0

NUMBER AND PERCENTAGE OF BUILDINGS OF MEDIUM SECONDARY SCHOOLS IN COUNTY SYSTEMS
CONSTRUCTED OR ADDED IN SPECIFIED DECADES, 1840-1973

	ORIGINAL		ADD1		ADD2		ADD3		TEMP1		TEMP2		TEMP3	
AFTER 1840 - 1870	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1870 - 1880	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1880 - 1890	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1890 - 1900	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1900 - 1910	1	1.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1910 - 1920	1	1.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1920 - 1930	6	8.6	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1930 - 1940	7	10.0	2	6.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1940 - 1950	13	18.6	1	3.0	0	0.0	1	9.1	0	0.0	0	0.0	0	0.0
AFTER 1950 - 1960	19	27.1	13	39.4	5	29.4	2	18.2	0	0.0	0	0.0	0	0.0
AFTER 1960 - 1970	20	28.6	14	42.4	10	58.8	5	45.5	4	57.1	1	33.3	1	50.0
AFTER 1970 - 1973	3	4.3	3	9.1	2	11.8	3	27.3	3	42.9	2	66.7	1	50.0
TOTAL	70	100.0	33	100.0	17	100.0	11	100.0	7	100.0	3	100.0	2	100.0

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
OLDEST STRUCTURE	1902	1937	1954	1950	1967	1967	1964
MEAN YEAR OF CONSTRUCTION	1951	1960	1963	1965	1969	1970	1968

NUMBER AND PERCENTAGE OF MEDIUM SECONDARY SCHOOLS IN COUNTY SYSTEMS
HAVING SPECIFIED NUMBERS OF ADDITIONAL AND TEMPORARY STRUCTURES

	ADDITIONS		TEMPORARIES	
0	36	50.0	63	87.5
1	20	27.8	6	8.3
2	7	9.7	3	4.2
3	9	12.5	0	0.0
TOTAL	72	100.0	72	100.0

NUMBER AND PERCENTAGE OF BUILDINGS OF MEDIUM SECONDARY SCHOOLS IN COUNTY SYSTEMS
UTILIZING BASEMENTS FOR INSTRUCTION OR OTHER PROGRAMS INVOLVING STUDENTS

ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
15 20.8	4 12.1	1 5.9	0 0.0	0 0.0	0 0.0	0 0.0

SCHOOLS USING BASEMENT OF SOME STRUCTURE FOR INSTRUCTION: 16 22.2%

NUMBER AND PERCENTAGE OF BUILDINGS OF MEDIUM SECONDARY SCHOOLS IN COUNTY SYSTEMS
HAVING SPECIFIED NUMBERS OF STORIES (EXCLUDING BASEMENT)

NUMBER OF STORIES	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
1 STORY	49 68.1	28 84.8	13 76.5	10 90.9	7 100.0	3 100.0	2 100.0
2 STORIES	19 26.4	5 15.2	3 7.6	1 9.1	0 0.0	0 0.0	0 0.0
3 STORIES	4 5.6	0 0.0	1 5.9	0 0.0	0 0.0	0 0.0	0 0.0
4 STORIES	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
TOTAL	72 100.0	33 100.0	17 100.0	11 100.0	7 100.0	3 100.0	2 100.0

TWO STORIES OR MORE BUILT BEFORE 1920

3 4.2	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
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ALL WOOD STRUCTURES OF MORE THAN ONE STORY

0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
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NUMBER AND PERCENTAGE OF BUILDINGS OF MEDIUM SECONDARY SCHOOLS IN COUNTY SYSTEMS
USING SELECTED EXTERIOR CONSTRUCTION MATERIALS

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
BRICK	61 84.7	30 90.9	16 94.1	9 81.8	0 0.0	0 0.0	0 0.0
WOOD	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
METAL	0 0.0	0 0.0	0 0.0	0 0.0	5 71.4	3 100.0	2 100.0
STONE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
CONCRETE	0 0.0	0 0.0	0 0.0	1 9.1	0 0.0	0 0.0	0 0.0
OTHER	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, METAL	2 2.8	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, STONE	1 1.4	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, CONCRETE	3 4.2	1 3.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, OTHER	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD, METAL	0 0.0	1 3.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD, CONCRETE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, METAL, CONCRETE	2 2.8	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, STONE, CONCRETE	1 1.4	1 3.0	1 5.9	1 9.1	0 0.0	0 0.0	0 0.0
BRICK, WOOD, METAL, CONCRETE	1 1.4	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
ALL OTHER COMBINATIONS	1 1.4	0 0.0	0 0.0	0 0.0	2 28.6	0 0.0	0 0.0
NJ RESPONSE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
TOTAL	72 100.0	33 100.0	17 100.0	11 100.0	7 100.0	3 100.0	2 100.0

204

NUMBER AND PERCENTAGE OF BUILDINGS OF MEDIUM SECONDARY SCHOOLS IN COUNTY SYSTEMS
USING SPECIFIED TYPES OF HEATING, COOLING, AND LIGHTING EQUIPMENT

HEATING EQUIPMENT

	ORIGINAL		ADD1		ADD2		ADD3		TEMP1		TEMP2		TEMP3	
JUST CENTRAL	62	86.1	24	72.7	14	82.4	8	72.7	3	42.9	0	0.0	0	0.0
JUST SPACE	7	9.7	7	21.2	3	17.6	3	27.3	4	57.1	3	100.0	2	100.0
CENTRAL & SPACE	3	4.2	1	3.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
NO RESPONSE	0	0.0	1	3.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
TOTAL	72	100.0	33	100.0	17	100.0	11	100.0	7	100.0	3	100.0	2	100.0

COOLING EQUIPMENT

	ORIGINAL		ADD1		ADD2		ADD3		TEMP1		TEMP2		TEMP3	
JUST CENTRAL	11	15.3	7	21.2	5	29.4	2	18.2	6	85.7	3	100.0	0	0.0
JUST WINDOW UNIT	21	29.2	9	27.3	3	17.6	3	27.3	1	14.3	0	0.0	1	50.0
CENTRAL & WINDOW	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
NO MECHANICAL	40	55.6	17	51.5	9	52.9	6	54.5	0	0.0	0	0.0	1	50.0
TOTAL	72	100.0	33	100.0	17	100.0	11	100.0	7	100.0	3	100.0	2	100.0

WINDOW UNIT COOLING

	ORIGINAL		ADD1		ADD2		ADD3		TEMP1		TEMP2		TEMP3	
ALL ROOMS	6	28.6	4	44.4	1	33.3	1	33.3	0	0.0	0	0.0	0	0.0
SELECTED ROOMS	11	52.4	2	22.2	2	66.7	2	66.7	1	100.0	0	0.0	0	0.0
NO RESPONSE	4	19.0	3	33.3	0	0.0	0	0.0	0	0.0	0	0.0	1	100.0
TOTAL	21	100.0	9	100.0	3	100.0	3	100.0	1	100.0	0	100.0	1	100.0

LIGHTING EQUIPMENT

	ORIGINAL		ADD1		ADD2		ADD3		TEMP1		TEMP2		TEMP3	
INCANDESCENT	23	31.9	12	36.4	4	23.5	5	45.5	0	0.0	0	0.0	0	0.0
FLUORESCENT	42	58.3	18	54.5	11	64.7	5	45.5	7	100.0	3	100.0	2	100.0
BOTH	3	4.2	1	3.0	1	5.9	0	0.0	0	0.0	0	0.0	0	0.0
OTHER	3	4.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
NO RESPONSE	1	1.4	2	6.1	1	5.9	1	9.1	0	0.0	0	0.0	0	0.0
TOTAL	72	100.0	33	100.0	17	100.0	11	100.0	7	100.0	3	100.0	2	100.0

NUMBER AND PERCENTAGE OF MEDIUM SECONDARY SCHOOLS IN COUNTY SYSTEMS
USING SPECIFIED SOURCES OF WATER SUPPLY

	NUMBER	PERCENTAGE	
WATER UTILITY	69	95.8	*****
PUMP ON PROPERTY	3	4.2	**
OTHER (WELLS, ETC.)	0	0.0	
NO RESPONSE	0	0.0	
TOTAL	72	100.0	-----

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

NUMBER AND PERCENTAGE OF PRINCIPALS OF MEDIUM SECONDARY SCHOOLS IN COUNTY SYSTEMS
EXPRESSING SPECIFIED FACILITY NEEDS

	NUMBER	PERCENTAGE	
MAINTENANCE	30	41.7	*****
CONSTRUCTION	38	52.8	*****
BOTH	0	0.0	
NEITHER (INCLUDING NO RESPONSE)	4	5.6	***
TOTAL	72	100.0	-----

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

PLANT PROFILES: MEDIUM SECONDARY SCHOOLS IN COUNTY SYSTEMS

CRITERION	ADEQUATE		SUBSTANDARD	
	NUMBER	PERCENTAGE	NUMBER	PERCENTAGE
1. ENROLLMENT/CAPACITY RATIO <= 1	44	62.9	26	37.1
2. MEETS NATIONAL SCHOOL SIZE STANDARDS	72	100.0	0	0.0
3. MEETS NATIONAL SITE SIZE STANDARDS	5	6.9	67	93.1
4. ORIGINAL BUILDING 30 YRS OLD OR LESS	53	75.7	17	24.3
5. NO TEMPORARY STRUCTURES	63	87.5	9	12.5
6. NO BASEMENT USED FOR INSTRUCTION	56	77.8	16	22.2
7. NO BUILDING OF WOOD EXCLUSIVELY	72	100.0	0	0.0
8. CENTRAL HEATING IN ORIGINAL BUILDING	65	90.3	7	9.7
9. CENTRAL AIR OR ALL WINDOW UNITS	16	22.2	30	41.7
10. COMPLETE FLUORESCENT LIGHTING	41	56.9	17	23.6
11. USE OF WATER UTILITY	69	95.8	3	4.2
12. MEETS 7 OF 11 OF ABOVE CRITERIA	59	81.9	1	1.4

CATA DISPLAY 4.9

LARGE SECONDARY SCHOOLS IN COUNTY SYSTEMS

91 RESPONDENTS

NUMBER AND PERCENTAGE OF LARGE SECONDARY SCHOOLS IN COUNTY SYSTEMS
USING SPECIFIED PROPORTIONS OF SCHOOL PLANT CAPACITY

ENROLLMENT/CAPACITY RATIO	NUMBER	PERCENTAGE	
ABOVE 0.0- 0.5	0	0.0	
ABOVE 0.5- 0.8	9	9.9	*****
ABOVE 0.8- 1.0	39	42.9	*****
ABOVE 1.0- 1.5	36	39.6	*****
ABOVE 1.5- 2.0	7	7.7	****
ABOVE 2.0-13.0	0	0.0	
TOTAL	91	100.0	-----

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

SCHOOLS THAT EXCEED CAPACITY: 43 47.3%

NUMBER AND PERCENTAGE OF LARGE SECONDARY SCHOOLS IN COUNTY SYSTEMS
HAVING SITES OF SPECIFIED SIZES (IN ACRES)

ACRES	NUMBER	PERCENTAGE	
0- LESS THAN 1	0	0.0	
1- LESS THAN 5	3	3.4	*
5- LESS THAN 10	8	9.1	****
10- LESS THAN 20	15	17.0	*****
20- LESS THAN 30	22	25.0	*****
30- LESS THAN 50	23	26.1	*****
50- LESS THAN 100	17	19.3	*****
TOTAL	88	100.0	-----

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

MEDIAN SCHOOL SITE SIZE IS 26 ACRES

NUMBER AND PERCENTAGE OF LARGE SECONDARY SCHOOLS IN COUNTY SYSTEMS
MEETING SITE SIZE REQUIREMENTS: 22 25.0%

NUMBER AND PERCENTAGE OF BUILDINGS OF LARGE SECONDARY SCHOOLS IN COUNTY SYSTEMS
OCCURRING AT SPECIFIED STAGES OF THE SCHOOL LIFE CYCLE

AGE (IN YEARS)	ORIGINAL		ADD1		ADD2		ADD3		TEMP1		TEMP2		TEMP3	
60 OR OVER	2	2.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
40- LESS THAN 60	13	14.6	2	4.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
20- LESS THAN 40	20	22.5	11	22.4	5	14.3	3	14.3	0	0.0	2	16.7	0	0.0
LESS THAN 20	54	60.7	36	73.5	30	85.7	18	85.7	25	100.0	10	83.3	4	100.0
TOTAL	89	100.0	49	100.0	35	100.0	21	100.0	25	100.0	12	100.0	4	100.0

NUMBER AND PERCENTAGE OF BUILDINGS OF LARGE SECONDARY SCHOOLS IN COUNTY SYSTEMS
CONSTRUCTED OR ADDED IN SPECIFIED DECADES, 1840-1973

	ORIGINAL		ADD1		ADD2		ADD3		TEMP1		TEMP2		TEMP3	
AFTER 1840 - 1870	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1870 - 1880	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1880 - 1890	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1890 - 1900	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1900 - 1910	2	2.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1910 - 1920	2	2.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1920 - 1930	4	4.5	1	2.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1930 - 1940	14	15.7	2	4.1	1	2.9	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1940 - 1950	7	7.9	6	12.2	3	8.6	0	0.0	0	0.0	1	8.3	0	0.0
AFTER 1950 - 1960	18	20.2	17	34.7	8	22.9	5	23.8	2	8.0	1	8.3	0	0.0
AFTER 1960 - 1970	30	33.7	20	40.8	20	57.1	15	71.4	15	60.0	5	41.7	2	50.0
AFTER 1970 - 1973	12	13.5	3	6.1	3	8.6	1	4.8	8	32.0	5	41.7	2	50.0
TOTAL	89	100.0	49	100.0	35	100.0	21	100.0	25	100.0	12	100.0	4	100.0

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
OLDEST STRUCTURE	1910	1928	1938	1953	1955	1945	1967
MEAN YEAR OF CONSTRUCTION	1954	1958	1960	1963	1968	1966	1969

NUMBER AND PERCENTAGE OF LARGE SECONDARY SCHOOLS IN COUNTY SYSTEMS
HAVING SPECIFIED NUMBERS OF ADDITIONAL AND TEMPORARY STRUCTURES

	ADDITIONS		TEMPORARIES	
0	38	41.8	62	68.1
1	20	22.0	20	22.0
2	14	15.4	6	6.6
3	19	20.9	3	3.3
TOTAL	91	100.0	91	100.0

NUMBER AND PERCENTAGE OF BUILDINGS OF LARGE SECONDARY SCHOOLS IN COUNTY SYSTEMS
UTILIZING BASEMENTS FOR INSTRUCTION OR OTHER PROGRAMS INVOLVING STUDENTS

ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
19 20.9	4 8.2	6 17.1	1 4.8	1 4.0	0 0.0	0 0.0
SCHOOLS USING BASEMENT OF SOME STRUCTURE FOR INSTRUCTION:					23	25.3%

NUMBER AND PERCENTAGE OF BUILDINGS OF LARGE SECONDARY SCHOOLS IN COUNTY SYSTEMS
HAVING SPECIFIED NUMBERS OF STORIES (EXCLUDING BASEMENT)

NUMBER OF STORIES	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
1 STORY	44 48.4	25 51.0	17 48.6	13 61.9	23 92.0	12 100.0	4 100.0
2 STORIES	35 38.5	21 42.9	16 45.7	6 28.6	2 8.0	0 0.0	0 0.0
3 STORIES	12 13.2	3 6.1	2 5.7	2 9.5	0 0.0	0 0.0	0 0.0
4 STORIES	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
TOTAL	91 100.0	49 100.0	35 100.0	21 100.0	25 100.0	12 100.0	4 100.0

TWO STORIES OR MORE BUILT BEFORE 1920	6 6.6	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
ALL WOOD STRUCTURES OF MORE THAN ONE STORY	0 0.0	1 2.0	1 2.9	1 4.8	0 0.0	0 0.0	0 0.0

NUMBER AND PERCENTAGE OF BUILDINGS OF LARGE SECONDARY SCHOOLS IN COUNTY SYSTEMS
USING SELECTED EXTERIOR CONSTRUCTION MATERIALS

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
BRICK	71 78.0	39 79.6	25 71.4	13 61.9	4 16.0	2 16.7	0 0.0
WOOD	0 0.0	1 2.0	1 2.9	1 4.8	7 28.0	5 41.7	3 75.0
METAL	0 0.0	0 0.0	1 2.9	0 0.0	10 40.0	3 25.0	1 25.0
STONE	1 1.1	1 2.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
CONCRETE	1 1.1	1 2.0	1 2.9	1 4.8	0 0.0	0 0.0	0 0.0
OTHER	0 0.0	0 0.0	1 2.9	1 4.8	2 8.0	0 0.0	0 0.0
BRICK, WOOD	1 1.1	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, METAL	6 6.6	0 0.0	1 2.9	1 4.8	0 0.0	0 0.0	0 0.0
BRICK, STONE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, CONCRETE	4 4.4	5 10.2	4 11.4	3 14.3	0 0.0	0 0.0	0 0.0
BRICK, OTHER	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD, METAL	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD, CONCRETE	1 1.1	1 2.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, METAL, CONCRETE	4 4.4	1 2.0	1 2.9	1 4.8	1 4.0	1 8.3	0 0.0
BRICK, STONE, CONCRETE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD, METAL, CONCRETE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
ALL OTHER COMBINATIONS	2 2.2	0 0.0	0 0.0	0 0.0	1 4.0	0 0.0	0 0.0
NO RESPONSE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	1 8.3	0 0.0
TOTAL	91 100.0	49 100.0	35 100.0	21 100.0	25 100.0	12 100.0	4 100.0

NUMBER AND PERCENTAGE OF BUILDINGS OF LARGE SECONDARY SCHOOLS IN COUNTY SYSTEMS
USING SPECIFIED TYPES OF HEATING, COOLING, AND LIGHTING EQUIPMENT

HEATING EQUIPMENT

	ORIGINAL		ADD1		ADD2		ADD3		TEMP1		TEMP2		TEMP3	
JUST CENTRAL	78	85.7	42	85.7	29	82.9	17	81.0	8	32.0	4	33.3	1	25.0
JUST SPACE	2	2.2	2	4.1	4	11.4	3	14.3	14	56.0	6	50.0	3	75.0
CENTRAL & SPACE	9	9.9	3	6.1	1	2.9	0	0.0	2	8.0	0	0.0	0	0.0
NO RESPONSE	2	2.2	2	4.1	1	2.9	1	4.8	1	4.0	2	16.7	0	0.0
TOTAL	91	100.	49	100.0	35	100.0	21	100.0	25	100.0	12	100.0	4	100.0

COOLING EQUIPMENT

	ORIGINAL		ADD1		ADD2		ADD3		TEMP1		TEMP2		TEMP3	
JUST CENTRAL	34	37.4	10	20.4	8	22.9	4	19.0	5	20.0	0	0.0	0	0.0
JUST WINDOW UNIT	18	19.8	9	18.4	5	14.3	1	4.8	6	24.0	2	16.7	1	25.0
CENTRAL & WINDOW	1	1.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
NO MECHANICAL	38	41.8	30	61.2	22	62.9	16	76.2	14	56.0	10	83.3	3	75.0
TOTAL	91	100.0	49	100.0	35	100.0	21	100.0	25	100.0	12	100.0	4	100.0

WINDOW UNIT COOLING

	ORIGINAL		ADD1		ADD2		ADD3		TEMP1		TEMP2		TEMP3	
ALL ROOMS	5	26.3	1	11.1	0	0.0	1	100.0	3	50.0	2	100.0	1	100.0
SELECTED ROOMS	13	68.4	7	77.8	5	100.0	0	0.0	2	33.3	0	0.0	0	0.0
NO RESPONSE	1	5.3	1	11.1	0	0.0	0	0.0	1	16.7	0	0.0	0	0.0
TOTAL	19	100.0	9	100.0	5	100.0	1	100.0	6	100.0	2	100.0	1	100.0

LIGHTING EQUIPMENT

	ORIGINAL		ADD1		ADD2		ADD3		TEMP1		TEMP2		TEMP3	
INCANDESCENT	18	19.8	11	22.4	7	20.0	5	23.8	2	8.0	2	16.7	0	0.0
FLUORESCENT	71	78.0	37	75.5	27	77.1	15	71.4	22	88.0	8	66.7	4	100.0
BOTH	1	1.1	0	0.0	1	2.9	0	0.0	1	4.0	0	0.0	0	0.0
CTHER	0	0.0	1	2.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
NO RESPONSE	1	1.1	0	0.0	0	0.0	1	4.8	0	0.0	2	16.7	0	0.0
TOTAL	91	100.0	49	100.0	35	100.0	21	100.0	25	100.0	12	100.0	4	100.0

NUMBER AND PERCENTAGE OF LARGE SECONDARY SCHOOLS IN COUNTY SYSTEMS
USING SPECIFIED SOURCES OF WATER SUPPLY

	NUMBER	PERCENTAGE	
WATER UTILITY	90	98.9	*****
PUMP ON PROPERTY	1	1.1	
OTHER (WELLS, ETC.)	0	0.0	
NO RESPONSE	0	0.0	
TOTAL	91	100.0	-----

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

NUMBER AND PERCENTAGE OF PRINCIPALS OF LARGE SECONDARY SCHOOLS IN COUNTY SYSTEMS
EXPRESSING SPECIFIED FACILITY NEEDS

	NUMBER	PERCENTAGE	
MAINTENANCE	36	39.6	*****
CONSTRUCTION	50	54.9	*****
BOTH	1	1.1	
NEITHER (INCLUDING NO RESPONSE)	4	4.4	**
TOTAL	91	100.0	-----

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

PLANT PROFILES: LARGE SECONDARY SCHOOLS IN COUNTY SYSTEMS

CRITERION	ADEQUATE		SUBSTANDARD	
	NUMBER	PERCENTAGE	NUMBER	PERCENTAGE
1. ENROLLMENT/CAPACITY RATIO \leq 1	48	52.7	43	47.3
2. MEETS NATIONAL SCHOOL SIZE STANDARDS	38	41.8	53	58.2
3. MEETS NATIONAL SITE SIZE STANDARDS	22	25.0	66	75.0
4. ORIGINAL BUILDING 30 YRS OLD OR LESS	67	75.3	22	24.7
5. NO TEMPORARY STRUCTURES	62	68.1	29	31.9
6. NO BASEMENT USED FOR INSTRUCTION	68	74.7	23	25.3
7. NO BUILDING OF WOOD EXCLUSIVELY	81	89.0	10	11.0
8. CENTRAL HEATING IN ORIGINAL BUILDING	87	95.6	4	4.4
9. CENTRAL AIR OR ALL WINDOW UNITS	39	42.9	27	29.7
10. COMPLETE FLUORESCENT LIGHTING	67	73.6	8	8.8
11. USE OF WATER UTILITY	90	98.9	1	1.1
7 OF 11 OF ABOVE CRITERIA	57	62.6	3	3.3

SMALL COMBINED SCHOOLS IN COUNTY SYSTEMS

15 RESPONDENTS

NUMBER AND PERCENTAGE OF SMALL COMBINED SCHOOLS IN COUNTY SYSTEMS
USING SPECIFIED PROPORTIONS OF SCHOOL PLANT CAPACITY

ENROLLMENT/CAPACITY		NUMBER	PERCENTAGE	
	RATIO			
ABOVE	0.0- 0.5	3	21.4	*****
ABOVE	0.5- 0.8	6	42.9	*****
ABOVE	0.8- 1.0	4	28.6	*****
ABOVE	1.0- 1.5	1	7.1	***
ABOVE	1.5- 2.0	0	0.0	
ABOVE	2.0-13.0	0	0.0	
TOTAL		14	100.0	-----
				10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

SCHOOLS THAT EXCEED CAPACITY: 1 7.1%

NUMBER AND PERCENTAGE OF SMALL COMBINED SCHOOLS IN COUNTY SYSTEMS
HAVING SITES OF SPECIFIED SIZES (IN ACRES)

ACRES	NUMBER	PERCENTAGE		
0- LESS THAN 1	0	0.0		
1- LESS THAN 5	7	46.7	*****	
5- LESS THAN 10	5	33.3	*****	
10- LESS THAN 20	3	20.0	*****	
20- LESS THAN 30	0	0.0		
30- LESS THAN 50	0	0.0		
50- LESS THAN 100	0	0.0		
TOTAL	15	100.0	-----	
				10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

MEDIAN SCHOOL SITE SIZE IS 5 ACRES

NUMBER AND PERCENTAGE OF SMALL COMBINED SCHOOLS IN COUNTY SYSTEMS
MEETING SITE SIZE REQUIREMENTS: 0 0.0%

NUMBER AND PERCENTAGE OF BUILDINGS OF SMALL COMBINED SCHOOLS IN COUNTY SYSTEMS
OCCURRING AT SPECIFIED STAGES OF THE SCHOOL LIFE CYCLE

AGE (IN YEARS)	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
60 OR OVER	1 7.1	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
40- LESS THAN 60	5 35.7	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
20- LESS THAN 40	8 57.1	2 20.0	1 33.3	0 0.0	1 100.0	0 0.0	0 0.0
LESS THAN 20	0 0.0	8 80.0	2 66.7	0 0.0	0 0.0	0 0.0	0 0.0
TOTAL	14 100.0	10 100.0	3 100.0	0 100.0	1 100.0	0 100.0	0 100.0

NUMBER AND PERCENTAGE OF BUILDINGS OF SMALL COMBINED SCHOOLS IN COUNTY SYSTEMS
CONSTRUCTED OR ADDED IN SPECIFIED DECADES, 1840-1973

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
AFTER 1840 - 1870	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1870 - 1880	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1880 - 1890	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1890 - 1900	1 7.1	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1900 - 1910	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1910 - 1920	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1920 - 1930	5 35.7	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1930 - 1940	2 14.3	0 0.0	0 0.0	0 0.0	1 100.0	0 0.0	0 0.0
AFTER 1940 - 1950	2 14.3	2 20.0	1 33.3	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1950 - 1960	4 28.6	3 30.0	1 33.3	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1960 - 1970	0 0.0	5 50.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1970 - 1973	0 0.0	0 0.0	1 33.3	0 0.0	0 0.0	0 0.0	0 0.0
TOTAL	14 100.0	10 100.0	3 100.0	0 100.0	1 100.0	0 100.0	0 100.0

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
OLDEST STRUCTURE	1900	1948	1948	0	1936	0	0
MEAN YEAR OF CONSTRUCTION	1936	1958	1958	0	1936	0	0

NUMBER AND PERCENTAGE OF SMALL COMBINED SCHOOLS IN COUNTY SYSTEMS
HAVING SPECIFIED NUMBERS OF ADDITIONAL AND TEMPORARY STRUCTURES

	ADDITIONS	TEMPORARIES
0	4 26.7	14 93.3
1	9 60.0	1 6.7
2	2 13.3	0 0.0
3	0 0.0	0 0.0
TOTAL	15 100.0	15 100.0

NUMBER AND PERCENTAGE OF BUILDINGS OF SMALL COMBINED SCHOOLS IN COUNTY SYSTEMS
UTILIZING BASEMENTS FOR INSTRUCTION OR OTHER PROGRAMS INVOLVING STUDENTS

ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
7 46.7	1 10.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0

SCHOOLS USING BASEMENT OF SOME STRUCTURE FOR INSTRUCTION: 8 53.3%

NUMBER AND PERCENTAGE OF BUILDINGS OF SMALL COMBINED SCHOOLS IN COUNTY SYSTEMS
HAVING SPECIFIED NUMBERS OF STORIES (EXCLUDING BASEMENT)

NUMBER OF STORIES	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
1 STORY	6 40.0	8 80.0	1 33.3	0 0.0	1 100.0	0 0.0	0 0.0
2 STORIES	9 60.0	2 20.0	2 66.7	0 0.0	0 0.0	0 0.0	0 0.0
3 STORIES	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
4 STORIES	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
TOTAL	15 100.0	10 100.0	3 100.0	0 100.0	1 100.0	0 100.0	0 100.0

TWO STORIES OR MORE BUILT BEFORE 1920	1 6.7	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
ALL WOOD STRUCTURES OF MORE THAN ONE STORY	1 6.7	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0

NUMBER AND PERCENTAGE OF BUILDINGS OF SMALL COMBINED SCHOOLS IN COUNTY SYSTEMS
USING SELECTED EXTERIOR CONSTRUCTION MATERIALS

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
BRICK	10 66.7	7 70.0	2 66.7	0 0.0	0 0.0	0 0.0	0 0.0
WOOD	1 6.7	0 0.0	0 0.0	0 0.0	1 100.0	0 0.0	0 0.0
METAL	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
STONE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
CONCRETE	2 13.3	1 10.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
OTHER	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, METAL	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, STONE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, CONCRETE	1 6.7	1 10.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, OTHER	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD, METAL	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD, CONCRETE	0 0.0	0 0.0	1 33.3	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, METAL, CONCRETE	1 6.7	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, STONE, CONCRETE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD, METAL, CONCRETE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
ALL OTHER COMBINATIONS	0 0.0	1 10.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
NO RESPONSE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
TOTAL	15 100.0	10 100.0	3 100.0	0 100.0	1 100.0	0 100.0	0 100.0

NUMBER AND PERCENTAGE OF BUILDINGS OF SMALL COMBINED SCHOOLS IN COUNTY SYSTEMS
USING SPECIFIED TYPES OF HEATING, COOLING, AND LIGHTING EQUIPMENT

HEATING EQUIPMENT

	ORIGINAL		ADD1		ADD2		ADD3		TEMP1		TEMP2		TEMP3	
JUST CENTRAL	13	86.7	8	80.0	3	100.0	0	0.0	1	100.0	0	0.0	0	0.0
JUST SPACE	1	6.7	1	10.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
CENTRAL & SPACE	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
NO RESPONSE	1	6.7	1	10.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
TOTAL	15	100.0	10	100.0	3	100.0	0	100.0	1	100.0	0	100.0	0	100.0

COOLING EQUIPMENT

	ORIGINAL		ADD1		ADD2		ADD3		TEMP1		TEMP2		TEMP3	
JUST CENTRAL	0	0.0	0	0.0	1	33.3	0	0.0	0	0.0	0	0.0	0	0.0
JUST WINDOW UNIT	2	13.3	1	10.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
CENTRAL & WINDOW	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
NO MECHANICAL	13	86.7	9	90.0	2	66.7	0	0.0	1	100.0	0	0.0	0	0.0
TOTAL	15	100.0	10	100.0	3	100.0	0	100.0	1	100.0	0	100.0	0	100.0

WINDOW UNIT COOLING

	ORIGINAL		ADD1		ADD2		ADD3		TEMP1		TEMP2		TEMP3	
ALL ROOMS	1	50.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
SELECTED ROOMS	1	50.0	1	100.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
NO RESPONSE	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
TOTAL	2	100.0	1	100.0	0	100.0	0	100.0	0	100.0	0	100.0	0	100.0

LIGHTING EQUIPMENT

	ORIGINAL		ADD1		ADD2		ADD3		TEMP1		TEMP2		TEMP3	
INCANDESCENT	5	33.3	3	30.0	0	0.0	0	0.0	1	100.0	0	0.0	0	0.0
FLUORESCENT	6	40.0	7	70.0	3	100.0	0	0.0	0	0.0	0	0.0	0	0.0
BOTH	1	6.7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
OTHER	3	20.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
NO RESPONSE	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
TOTAL	15	100.0	10	100.0	3	100.0	0	100.0	1	100.0	0	100.0	0	100.0

NUMBER AND PERCENTAGE OF SMALL COMBINED SCHOOLS IN COUNTY SYSTEMS
USING SPECIFIED SOURCES OF WATER SUPPLY

	NUMBER	PERCENTAGE	
WATER UTILITY	10	66.7	*****
PUMP ON PROPERTY	4	26.7	*****
OTHER (WELLS, ETC.)	1	6.7	***
NO RESPONSE	0	0.0	
TOTAL	15	100.0	-----

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

NUMBER AND PERCENTAGE OF PRINCIPALS OF SMALL COMBINED SCHOOLS IN COUNTY SYSTEMS
EXPRESSING SPECIFIED FACILITY NEEDS

	NUMBER	PERCENTAGE	
MAINTENANCE	10	66.7	*****
CONSTRUCTION	4	26.7	*****
BOTH	0	0.0	
NEITHER (INCLUDING NO RESPONSE)	1	6.7	***
TOTAL	15	100.0	-----

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

PLANT PROFILES: SMALL COMBINED SCHOOLS IN COUNTY SYSTEMS

CRITERION	ADEQUATE		SUBSTANDARD	
	NUMBER	PERCENTAGE	NUMBER	PERCENTAGE
1. ENROLLMENT/CAPACITY RATIO <= 1	13	92.9	1	7.1
2. MEETS NATIONAL SCHOOL SIZE STANDARDS	4	26.7	11	73.3
3. MEETS NATIONAL SITE SIZE STANDARDS	0	0.0	15	100.0
4. ORIGINAL BUILDING 30 YRS OLD OR LESS	6	42.9	8	57.1
5. NO TEMPORARY STRUCTURES	14	93.3	1	6.7
6. NO BASEHEAT USED FOR INSTRUCTION	7	46.7	8	53.3
7. NO BUILDING OF WOOD EXCLUSIVELY	13	86.7	2	13.3
8. CENTRAL HEATING IN ORIGINAL BUILDING	13	86.7	2	13.3
9. CENTRAL AIR OR ALL WINDOW UNITS	1	6.7	12	80.0
10. COMPLETE FLUORESCENT LIGHTING	6	40.0	5	33.3
11. USE OF WATER UTILITY	10	66.7	5	33.3
12. MEETS 7 OF 11 OF ABOVE CRITERIA	6	40.0	2	13.3

DATA DISPLAY 4.11

MEDIUM COMBINED SCHOOLS IN COUNTY SYSTEMS

41 RESPONDENTS

NUMBER AND PERCENTAGE OF MEDIUM COMBINED SCHOOLS IN COUNTY SYSTEMS
USING SPECIFIED PROPORTIONS OF SCHOOL PLANT CAPACITY

ENROLLMENT/CAPACITY		NUMBER	PERCENTAGE	
	RATIO			
ABOVE	0.0- 0.5	0	0.0	
ABOVE	0.5- 0.8	3	7.9	****
ABOVE	0.8- 1.0	20	52.6	*****
ABOVE	1.0- 1.5	15	39.5	*****
ABOVE	1.5- 2.0	0	0.0	
ABOVE	2.0-13.0	0	0.0	
TOTAL		38	100.0	-----

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

SCHOOLS THAT EXCEED CAPACITY: 15 39.5%

NUMBER AND PERCENTAGE OF MEDIUM COMBINED SCHOOLS IN COUNTY SYSTEMS
HAVING SITES OF SPECIFIED SIZES (IN ACRES)

ACRES		NUMBER	PERCENTAGE	
0-	LESS THAN 1	0	0.0	
1-	LESS THAN 5	5	13.2	*****
5-	LESS THAN 10	12	31.6	*****
10-	LESS THAN 20	14	36.8	*****
20-	LESS THAN 30	4	10.5	****
30-	LESS THAN 50	3	7.9	****
50-	LESS THAN 100	0	0.0	
TOTAL		38	100.0	-----

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

MEDIAN SCHOOL SITE SIZE IS 10 ACRES

NUMBER AND PERCENTAGE OF MEDIUM COMBINED SCHOOLS IN COUNTY SYSTEMS
MEETING SITE SIZE REQUIREMENTS: 1 2.6%

NUMBER AND PERCENTAGE OF BUILDINGS OF MEDIUM COMBINED SCHOOLS IN COUNTY SYSTEMS
OCCURRING AT SPECIFIED STAGES OF THE SCHOOL LIFE CYCLE

AGE (IN YEARS)	ORIGINAL		ADD1		ADD2		ADD3		TEMP1		TEMP2		TEMP3	
60 OR OVER	5	12.8	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
40- LESS THAN 60	15	38.5	3	9.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
20- LESS THAN 40	13	33.3	18	56.3	6	21.4	1	5.3	1	10.0	0	0.0	0	0.0
LESS THAN 20	6	15.4	11	34.4	22	78.6	18	94.7	9	90.0	5	100.0	1	100.0
TOTAL	39	100.0	32	100.0	28	100.0	19	100.0	10	100.0	5	100.0	1	100.0

NUMBER AND PERCENTAGE OF BUILDINGS OF MEDIUM COMBINED SCHOOLS IN COUNTY SYSTEMS
CONSTRUCTED OR ADDED IN SPECIFIED DECADES, 1840-1973

	ORIGINAL		ADD1		ADD2		ADD3		TEMP1		TEMP2		TEMP3	
AFTER 1840 - 1870	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1870 - 1880	1	2.6	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1880 - 1890	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1890 - 1900	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1900 - 1910	3	7.7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1910 - 1920	3	7.7	1	3.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1920 - 1930	13	33.3	2	6.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1930 - 1940	5	12.8	2	6.3	1	3.6	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1940 - 1950	8	20.5	9	28.1	4	14.3	1	5.3	0	0.0	0	0.0	0	0.0
AFTER 1950 - 1960	2	5.1	12	37.5	16	57.1	2	10.5	1	10.0	1	20.0	0	0.0
AFTER 1960 - 1970	4	10.3	6	18.8	6	21.4	11	57.9	3	30.0	1	20.0	0	0.0
AFTER 1970 - 1973	0	0.0	0	0.0	1	3.6	5	26.3	6	60.0	3	60.0	1	100.0
TOTAL	39	100.0	32	100.0	28	100.0	19	100.0	10	100.0	5	100.0	1	100.0

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
OLDEST STRUCTURE	1880	1920	1938	1947	1952	1958	1972
MEAN YEAR OF CONSTRUCTION	1933	1950	1957	1965	1969	1968	1972

NUMBER AND PERCENTAGE OF MEDIUM COMBINED SCHOOLS IN COUNTY SYSTEMS
HAVING SPECIFIED NUMBERS OF ADDITIONAL AND TEMPORARY STRUCTURES

	ADDITIONS		TEMPORARIES	
0	5	12.2	29	70.7
1	8	19.5	8	19.5
2	13	31.7	4	9.8
3	15	36.6	0	0.0
TOTAL	41	100.0	41	100.0

NUMBER AND PERCENTAGE OF BUILDINGS OF MEDIUM COMBINED SCHOOLS IN COUNTY SYSTEMS
UTILIZING BASEMENTS FOR INSTRUCTION OR OTHER PROGRAMS INVOLVING STUDENTS

ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
8 19.5	3 9.4	3 10.7	0 0.0	1 10.0	1 20.0	0 0.0

SCHOOLS USING BASEMENT OF SOME STRUCTURE FOR INSTRUCTION: 13 31.7%

NUMBER AND PERCENTAGE OF BUILDINGS OF MEDIUM COMBINED SCHOOLS IN COUNTY SYSTEMS
HAVING SPECIFIED NUMBERS OF STORIES (EXCLUDING BASEMENT)

NUMBER OF STORIES	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
1 STORY	27 65.9	25 78.1	23 82.1	16 84.2	10 100.0	5 100.0	1 100.0
2 STORIES	13 31.7	7 21.9	5 17.9	3 15.8	0 0.0	0 0.0	0 0.0
3 STORIES	1 2.4	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
4 STORIES	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
TOTAL	41 100.0	32 100.0	28 100.0	19 100.0	10 100.0	5 100.0	1 100.0

TWO STORIES OR MORE BUILT BEFORE 1920

6 14.6	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
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ALL WOOD STRUCTURES OF MORE THAN ONE STORY

0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
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NUMBER AND PERCENTAGE OF BUILDINGS OF MEDIUM COMBINED SCHOOLS IN COUNTY SYSTEMS
USING SELECTED EXTERIOR CONSTRUCTION MATERIALS

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
BRICK	36 87.8	26 81.3	24 85.7	15 78.9	1 10.0	1 20.0	0 0.0
WOOD	0 0.0	1 3.1	1 3.6	0 0.0	1 10.0	1 20.0	0 0.0
METAL	0 0.0	1 3.1	1 3.6	2 10.5	6 60.0	1 20.0	0 0.0
STONE	1 2.4	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
CONCRETE	1 2.4	3 9.4	0 0.0	0 0.0	1 10.0	0 0.0	0 0.0
OTHER	0 0.0	0 0.0	0 0.0	1 5.3	1 10.0	0 0.0	0 0.0
BRICK, WOOD	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, METAL	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, STONE	1 2.4	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, CONCRETE	0 0.0	1 3.1	2 7.1	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, OTHER	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD, METAL	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD, CONCRETE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, METAL, CONCRETE	1 2.4	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, STONE, CONCRETE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD, METAL, CONCRETE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
ALL OTHER COMBINATIONS	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	1 20.0	1 100.0
NO RESPONSE	1 2.4	0 0.0	0 0.0	1 5.3	0 0.0	1 20.0	0 0.0
TOTAL	41 100.0	32 100.0	28 100.0	19 100.0	10 100.0	5 100.0	1 100.0

NUMBER AND PERCENTAGE OF BUILDINGS OF MEDIUM COMBINED SCHOOLS IN COUNTY SYSTEMS
USING SPECIFIED TYPES OF HEATING, COOLING, AND LIGHTING EQUIPMENT

HEATING EQUIPMENT

	ORIGINAL		ADD1		ADD2		ADD3		TEMP1		TEMP2		TEMP3	
JUST CENTRAL	33	80.5	24	75.0	20	71.4	13	68.4	4	40.0	1	20.0	0	0.0
JUST SPACE	6	14.6	5	15.6	5	17.9	5	26.3	6	60.0	3	60.0	1	100.0
CENTRAL & SPACE	1	2.4	1	3.1	1	3.6	0	0.0	0	0.0	0	0.0	0	0.0
NO RESPONSE	1	2.4	2	6.3	2	7.1	1	5.3	0	0.0	1	20.0	0	0.0
TOTAL	41	100.0	32	100.0	28	100.0	19	100.0	10	100.0	5	100.0	1	100.0

COOLING EQUIPMENT

	ORIGINAL		ADD1		ADD2		ADD3		TEMP1		TEMP2		TEMP3	
JUST CENTRAL	1	2.4	2	6.3	1	3.6	4	21.1	4	40.0	2	40.0	1	100.0
JUST WINDOW UNIT	12	29.3	10	31.3	12	42.9	5	26.3	1	10.0	1	20.0	0	0.0
CENTRAL & WINDOW	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
NO MECHANICAL	28	68.3	20	62.5	15	53.6	10	52.6	5	50.0	2	40.0	0	0.0
TOTAL	41	100.0	32	100.0	28	100.0	19	100.0	10	100.0	5	100.0	1	100.0

WINDOW UNIT COOLING

	ORIGINAL		ADD1		ADD2		ADD3		TEMP1		TEMP2		TEMP3	
ALL ROOMS	5	41.7	6	60.0	6	50.0	3	60.0	0	0.0	1	100.0	0	0.0
SELECTED ROOMS	6	50.0	3	30.0	4	33.3	2	40.0	0	0.0	0	0.0	0	0.0
NO RESPONSE	1	8.3	1	10.0	2	16.7	0	0.0	1	100.0	0	0.0	0	0.0
TOTAL	12	100.0	10	100.0	12	100.0	5	100.0	1	100.0	1	100.0	0	100.0

LIGHTING EQUIPMENT

	ORIGINAL		ADD1		ADD2		ADD3		TEMP1		TEMP2		TEMP3	
INCANDESCENT	22	53.7	17	53.1	16	57.1	3	15.8	2	20.0	1	20.0	0	0.0
FLUORESCENT	16	39.0	13	40.6	11	39.3	14	73.7	8	80.0	3	60.0	1	100.0
BOTH	1	2.4	1	3.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
OTHER	1	2.4	1	3.1	1	3.6	0	0.0	0	0.0	0	0.0	0	0.0
NO RESPONSE	1	2.4	0	0.0	0	0.0	2	10.5	0	0.0	1	20.0	0	0.0
TOTAL	41	100.0	32	100.0	28	100.0	19	100.0	10	100.0	5	100.0	1	100.0

NUMBER AND PERCENTAGE OF MEDIUM COMBINED SCHOOLS IN COUNTY SYSTEMS
USING SPECIFIED SOURCES OF WATER SUPPLY

	NUMBER	PERCENTAGE	
WATER UTILITY	30	73.2	*****
PUMP ON PROPERTY	11	26.8	*****
OTHER (WELLS, ETC.)	0	0.0	
NO RESPONSE	0	0.0	
TOTAL	41	100.0	-----

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

NUMBER AND PERCENTAGE OF PRINCIPALS OF MEDIUM COMBINED SCHOOLS IN COUNTY SYSTEMS
EXPRESSING SPECIFIED FACILITY NEEDS

	NUMBER	PERCENTAGE	
MAINTENANCE	24	58.5	*****
CONSTRUCTION	14	34.1	*****
BOTH	2	4.9	**
NEITHER (INCLUDING NO RESPONSE)	1	2.4	*
TOTAL	41	100.0	-----

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

PLANT PROFILES: MEDIUM COMBINED SCHOOLS IN COUNTY SYSTEMS

CRITERION	ADEQUATE		SUBSTANDARD	
	NUMBER	PERCENTAGE	NUMBER	PERCENTAGE
1. ENROLLMENT/CAPACITY RATIO <= 1	23	60.5	15	39.5
2. MEETS NATIONAL SCHOOL SIZE STANDARDS	41	100.0	0	0.0
3. MEETS NATIONAL SITE SIZE STANDARDS	1	2.6	37	97.4
4. ORIGINAL BUILDING 30 YRS OLD OR LESS	12	30.8	27	69.2
5. NO TEMPORARY STRUCTURES	29	70.7	12	29.3
6. NO BASEMENT USED FOR INSTRUCTION	28	68.3	13	31.7
7. NO BUILDING OF WOOD EXCLUSIVELY	39	95.1	2	4.9
8. CENTRAL HEATING IN ORIGINAL BUILDING	34	82.9	7	17.1
9. CENTRAL AIR OR ALL WINDOW UNITS	7	17.1	20	48.8
10. COMPLETE FLUORESCENT LIGHTING	13	31.7	11	26.8
11. USE OF WATER UTILITY	30	73.2	11	26.8
12. MEETS 7 OF 11 OF ABOVE CRITERIA	18	43.9	0	0.0

LARGE COMBINED SCHOOLS IN COUNTY SYSTEMS

5 RESPONDENTS

NUMBER AND PERCENTAGE OF LARGE COMBINED SCHOOLS IN COUNTY SYSTEMS
USING SPECIFIED PROPORTIONS OF SCHOOL PLANT CAPACITY

ENROLLMENT/CAPACITY RATIO	NUMBER	PERCENTAGE
ABCVE 0.0- 0.5	0	0.0
ABCVE 0.5- 0.8	0	0.0
ABOVE 0.8- 1.0	1	20.0
ABCVE 1.0- 1.5	4	80.0
ABOVE 1.5- 2.0	0	0.0
ABCVE 2.0-13.0	0	0.0
TOTAL	5	100.0

SCHOOLS THAT EXCEED CAPACITY: 4 80.0%

NUMBER AND PERCENTAGE OF LARGE COMBINED SCHOOLS IN COUNTY SYSTEMS
HAVING SITES OF SPECIFIED SIZES (IN ACRES).

ACRES	NUMBER	PERCENTAGE
0- LESS THAN 1	0	0.0
1- LESS THAN 5	0	0.0
5- LESS THAN 10	2	40.0
10- LESS THAN 20	1	20.0
20- LESS THAN 30	1	20.0
30- LESS THAN 50	1	20.0
50- LESS THAN 100	0	0.0
TOTAL	5	100.0

MEDIAN SCHOOL SITE SIZE IS 18 ACRES

NUMBER AND PERCENTAGE OF LARGE COMBINED SCHOOLS IN COUNTY SYSTEMS,
MEETING SITE SIZE REQUIREMENTS: 1 20.0%

NUMBER AND PERCENTAGE OF BUILDINGS OF LARGE COMBINED SCHOOLS IN COUNTY SYSTEMS OCCURRING AT SPECIFIED STAGES OF THE SCHOOL LIFE CYCLE

AGE (IN YEARS)	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
60 OR OVER	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
40- LESS THAN 60	2 40.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
20- LESS THAN 40	3 60.0	0 0.0	0 0.0	0 0.0	1 100.0	1 100.0	0 0.0
LESS THAN 20	0 0.0	3 60.0	0 0.0	0 0.0	1 100.0	1 100.0	1 100.0
TOTAL	5 100.0	3 60.0	0 0.0	0 0.0	1 100.0	1 100.0	1 100.0

NUMBER AND PERCENTAGE OF BUILDINGS OF LARGE COMBINED SCHOOLS IN COUNTY SYSTEMS CONSTRUCTED OR ADDED IN SPECIFIED DECADES

AFTER	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
1840 - 1870	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
1870 - 1880	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
1880 - 1890	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
1890 - 1900	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
1900 - 1910	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
1910 - 1920	1 20.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
1920 - 1930	1 20.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
1930 - 1940	2 40.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
1940 - 1950	1 20.0	2 40.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
1950 - 1960	0 0.0	1 20.0	0 0.0	0 0.0	1 100.0	1 100.0	1 100.0
1960 - 1970	0 0.0	2 40.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
1970 - 1973	0 0.0	0 0.0	0 0.0	0 0.0	1 100.0	1 100.0	1 100.0
TOTAL	5 100.0	5 100.0	0 0.0	0 0.0	1 100.0	1 100.0	1 100.0

OLDEST STRUCTURE MEAN YEAR OF CONSTRUCTION	ORIGINAL 1919 1932	ADD1 1948 1959	ADD2 1966 1966	ADD3 1970 1971	TEMP1 1967 1967	TEMP2 1967 1967	TEMP3 1967 1967
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NUMBER AND PERCENTAGE OF LARGE COMBINED SCHOOLS IN COUNTY SYSTEMS HAVING SPECIFIED NUMBERS OF ADDITIONAL AND TEMPORARY STRUCTURES

	ADDITIONS		TEMPORARIES	
0	0	0.0	3	60.0
1	1	20.0	1	20.0
2	2	40.0	0	0.0
3	2	40.0	1	20.0
TOTAL	5	100.0	5	100.0



NUMBER AND PERCENTAGE OF BUILDINGS OF LARGE COMBINED SCHOOLS IN COUNTY SYSTEMS UTILIZING BASEMENTS FOR INSTRUCTION OR OTHER PROGRAMS INVOLVING STUDENTS

ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
2 40.0	1 20.0	1 25.0	0 0.0	0 0.0	0 0.0	0 0.0
SCHOOLS USING BASEMENT OF SOME STRUCTURE FOR INSTRUCTION:						3 60.0%

NUMBER AND PERCENTAGE OF BUILDINGS OF LARGE COMBINED SCHOOLS IN COUNTY SYSTEMS HAVING SPECIFIED NUMBERS OF STORIES (EXCLUDING BASEMENT)

NUMBER OF STORIES	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
1 STORY	3 60.0	3 60.0	1 25.0	2 100.0	2 100.0	1 100.0	1 100.0
2 STORIES	2 40.0	2 40.0	3 75.0	0 0.0	0 0.0	0 0.0	0 0.0
3 STORIES	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
4 STORIES	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
TOTAL	5 100.0	5 100.0	4 100.0	2 100.0	2 100.0	1 100.0	1 100.0

TWO STORIES OR MORE BUILT BEFORE 1920	1 20.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
ALL WOOD STRUCTURES OF MORE THAN ONE STORY	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0

NUMBER AND PERCENTAGE OF BUILDINGS OF LARGE COMBINED SCHOOLS IN COUNTY SYSTEMS USING SELECTED EXTERIOR CONSTRUCTION MATERIALS

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
BRICK	5 100.0	4 80.0	4 100.0	2 100.0	0 0.0	0 0.0	0 0.0
WOOD	0 0.0	0 0.0	0 0.0	0 0.0	2 100.0	1 100.0	1 100.0
METAL	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
STONE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
CONCRETE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
OTHER	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, METAL	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, STONE	0 0.0	1 20.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, CONCRETE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, OTHER	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD, METAL	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD, CONCRETE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, METAL, CONCRETE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, STONE, CONCRETE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD, METAL, CONCRETE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
ALL OTHER COMBINATIONS	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
NO RESPONSE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
TOTAL	5 100.0	5 100.0	4 100.0	2 100.0	2 100.0	1 100.0	1 100.0

224

NUMBER AND PERCENTAGE OF BUILDINGS OF LARGE COMBINED SCHOOLS IN COUNTY SYSTEMS
USING SPECIFIED TYPES OF HEATING, COOLING, AND LIGHTING EQUIPMENT

HEATING EQUIPMENT

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
JUST CENTRAL	5 100.0	5 100.0	4 100.0	2 100.0	0 0.0	0 0.0	0 0.0
JUST SPACE	0 0.0	0 0.0	0 0.0	0 0.0	2 100.0	1 100.0	1 100.0
CENTRAL & SPACE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
NO RESPONSE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
TOTAL	5 100.0	5 100.0	4 100.0	2 100.0	2 100.0	1 100.0	1 100.0

COOLING EQUIPMENT

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
JUST CENTRAL	0 0.0	0 0.0	0 0.0	1 50.0	0 0.0	0 0.0	0 0.0
JUST WINDOW UNIT	1 20.0	0 0.0	1 25.0	0 0.0	1 50.0	1 100.0	1 100.0
CENTRAL & WINDOW	0 0.0	1 20.0	0 0.0	1 50.0	0 0.0	0 0.0	0 0.0
NO MECHANICAL	4 80.0	4 80.0	3 75.0	0 0.0	1 50.0	0 0.0	0 0.0
TOTAL	5 100.0	5 100.0	4 100.0	2 100.0	2 100.0	1 100.0	1 100.0

WINDOW UNIT COOLING

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
ALL ROOMS	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
SELECTED ROOMS	1 100.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
NO RESPONSE	0 0.0	1 100.0	1 100.0	1 100.0	1 100.0	1 100.0	1 100.0
TOTAL	1 100.0	1 100.0	1 100.0	1 100.0	1 100.0	1 100.0	1 100.0

LIGHTING EQUIPMENT

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
INCANDESCENT	4 80.0	2 40.0	2 50.0	0 0.0	0 0.0	0 0.0	0 0.0
FLUCRESCENT	1 20.0	3 60.0	1 25.0	2 100.0	2 100.0	1 100.0	1 100.0
BOTH	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
OTHER	0 0.0	0 0.0	1 25.0	0 0.0	0 0.0	0 0.0	0 0.0
NO RESPONSE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
TOTAL	5 100.0	5 100.0	4 100.0	2 100.0	2 100.0	1 100.0	1 100.0

NUMBER AND PERCENTAGE OF LARGE COMBINED SCHOOLS IN COUNTY SYSTEMS
USING SPECIFIED SOURCES OF WATER SUPPLY

	NUMBER	PERCENTAGE
WATER UTILITY	4	80.0
PUMP ON PROPERTY	1	20.0
OTHER (WELLS, ETC.)	0	0.0
NO RESPONSE	0	0.0
TOTAL	5	100.0

NUMBER AND PERCENTAGE OF PRINCIPALS OF LARGE COMBINED SCHOOLS IN COUNTY SYSTEMS
EXPRESSING SPECIFIED FACILITY NEEDS

	NUMBER	PERCENTAGE
MAINTENANCE	2	40.0
CONSTRUCTION	3	60.0
BOTH	0	0.0
NEITHER (INCLUDING NO RESPONSE)	0	0.0
TOTAL	5	100.0

PLANT PROFILES: LARGE COMBINED SCHOOLS IN COUNTY SYSTEMS

CRITERION	ADEQUATE		SUBSTANDARD	
	NUMBER	PERCENTAGE	NUMBER	PERCENTAGE
1. ENROLLMENT/CAPACITY RATIO ≤ 1	1	20.0	4	80.0
2. MEETS NATIONAL SCHOOL SIZE STANDARDS	4	80.0	1	20.0
3. MEETS NATIONAL SITE SIZE STANDARDS	1	20.0	4	80.0
4. ORIGINAL BUILDING 30 YRS OLD OR LESS	1	20.0	4	80.0
5. NO TEMPORARY STRUCTURES	3	60.0	2	40.0
6. NO BASEMENT USED FOR INSTRUCTION	2	40.0	3	60.0
7. NO BUILDING OF WOOD EXCLUSIVELY	3	60.0	2	40.0
8. CENTRAL HEATING IN ORIGINAL BUILDING	5	100.0	0	0.0
9. CENTRAL AIR OR ALL WINDOW UNITS	0	0.0	3	60.0
10. COMPLETE FLUORESCENT LIGHTING	1	20.0	1	20.0
11. USE OF WATER UTILITY	4	80.0	1	20.0
12. MEETS 7 OF 11 OF ABOVE CRITERIA	1	20.0	1	20.0

DATA DISPLAY 4.13

SMALL ELEMENTARY SCHOOLS IN CITY/SPECIAL SYSTEMS

72 RESPONDENTS

NUMBER AND PERCENTAGE OF SMALL ELEMENTARY SCHOOLS IN CITY/SPECIAL SYSTEMS
USING SPECIFIED PROPORTIONS OF SCHOOL PLANT CAPACITY

ENROLLMENT/CAPACITY		NUMBER	PERCENTAGE	
	RATIO			
ABOVE	0.0- 0.5	15	20.8	*****
ABOVE	0.5- 0.8	32	44.4	*****
ABOVE	0.8- 1.0	22	30.6	*****
ABOVE	1.0- 1.5	3	4.2	**
ABOVE	1.5- 2.0	0	0.0	
ABOVE	2.0-13.0	0	0.0	
TOTAL		72	100.0	-----
				10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

SCHOOLS THAT EXCEED CAPACITY: 3 4.2%

NUMBER AND PERCENTAGE OF SMALL ELEMENTARY SCHOOLS IN CITY/SPECIAL SYSTEMS
HAVING SITES OF SPECIFIED SIZES (IN ACRES)

ACRES		NUMBER	PERCENTAGE	
0-	LESS THAN 1	0	0.0	
1-	LESS THAN 5	33	46.5	*****
5-	LESS THAN 10	21	29.6	*****
10-	LESS THAN 20	13	18.3	*****
20-	LESS THAN 30	3	4.2	**
30-	LESS THAN 50	0	0.0	
50-	LESS THAN 100	1	1.4	
TOTAL		71	100.0	-----
				10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

MEDIAN SCHOOL SITE SIZE IS 5 ACRES

NUMBER AND PERCENTAGE OF SMALL ELEMENTARY SCHOOLS IN CITY/SPECIAL SYSTEMS
MEETING SITE SIZE REQUIREMENTS: 10 14.1%

NUMBER AND PERCENTAGE OF BUILDINGS OF SMALL ELEMENTARY SCHOOLS IN CITY/SPECIAL SYSTEMS OCCURRING AT SPECIFIED STAGES OF THE SCHOOL LIFE CYCLE

AGE (IN YEARS)	ORIGINAL		ACOL		ADD2		ADD3		TEMP1		TEMP2		TEMP3	
60 OR OVER	13	18.1	1	2.9	0	0.0	1	14.3	0	0.0	0	0.0	0	0.0
40- LESS THAN 60	18	25.0	6	17.1	1	3.1	0	0.0	0	0.0	0	0.0	0	0.0
20- LESS THAN 40	19	26.4	14	40.0	9	28.1	2	28.6	0	0.0	0	0.0	0	0.0
LESS THAN 20	22	30.6	14	40.0	22	68.8	4	57.1	4	100.0	1	100.0	1	100.0
TOTAL	72	100.0	35	100.0	32	100.0	7	100.0	4	100.0	1	100.0	1	100.0

NUMBER AND PERCENTAGE OF BUILDINGS OF SMALL ELEMENTARY SCHOOLS IN CITY/SPECIAL SYSTEMS CONSTRUCTED OR ADDED IN SPECIFIED DECADES, 1840-1973

	ORIGINAL		ADD1		ADD2		ADD3		TEMP1		TEMP2		TEMP3	
AFTER 1840 - 1870	1	1.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1870 - 1880	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1880 - 1890	1	1.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1890 - 1900	2	2.8	1	2.9	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1900 - 1910	8	11.1	0	0.0	0	0.0	1	14.3	0	0.0	0	0.0	0	0.0
AFTER 1910 - 1920	4	5.6	2	5.7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1920 - 1930	11	15.3	4	11.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1930 - 1940	10	13.9	4	11.4	3	9.4	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1940 - 1950	9	12.5	8	22.9	3	9.4	1	14.3	0	0.0	0	0.0	0	0.0
AFTER 1950 - 1960	16	22.2	11	31.4	16	50.0	2	28.6	0	0.0	0	0.0	0	0.0
AFTER 1960 - 1970	9	12.5	5	14.3	9	28.1	3	42.9	3	75.0	1	100.0	1	100.0
AFTER 1970 - 1973	1	1.4	0	0.0	1	3.1	0	0.0	1	25.0	0	0.0	0	0.0
TOTAL	72	100.0	35	100.0	32	100.0	7	100.0	4	100.0	1	100.0	1	100.0

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
OLDEST STRUCTURE	1848	1900	1933	1909	1966	1969	1967
MEAN YEAR OF CONSTRUCTION	1936	1945	1956	1950	1968	1969	1967

NUMBER AND PERCENTAGE OF SMALL ELEMENTARY SCHOOLS IN CITY/SPECIAL SYSTEMS HAVING SPECIFIED NUMBERS OF ADDITIONAL AND TEMPORARY STRUCTURES

	ADDITIONS		TEMPORARIES	
0	28	38.9	66	91.7
1	20	27.8	6	8.3
2	18	25.0	0	0.0
3	6	8.3	0	0.0
TOTAL	72	100.0	72	100.0

NUMBER AND PERCENTAGE OF BUILDINGS OF SMALL ELEMENTARY SCHOOLS IN CITY/SPECIAL SYSTEMS
UTILIZING BASEMENTS FOR INSTRUCTION OR OTHER PROGRAMS INVOLVING STUDENTS

ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
10 13.9	3 8.6	2 6.3	1 14.3	0 0.0	0 0.0	0 0.0

SCHOOLS USING BASEMENT OF SOME STRUCTURE FOR INSTRUCTION: 15 20.8%

NUMBER AND PERCENTAGE OF BUILDINGS OF SMALL ELEMENTARY SCHOOLS IN CITY/SPECIAL SYSTEMS
HAVING SPECIFIED NUMBERS OF STORIES (EXCLUDING BASEMENT)

NUMBER OF STORIES	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
1 STORY	35 48.6	20 57.1	19 59.4	5 71.4	4 100.0	1 100.0	1 100.0
2 STORIES	29 40.3	13 37.1	11 34.4	2 28.6	0 0.0	0 0.0	0 0.0
3 STORIES	8 11.1	2 5.7	2 6.3	0 0.0	0 0.0	0 0.0	0 0.0
4 STORIES	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
TOTAL	72 100.0	35 100.0	32 100.0	7 100.0	4 100.0	1 100.0	1 100.0

TWO STORIES OR MORE BUILT BEFORE 1920

13 18.1	2 5.7	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
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ALL WOOD STRUCTURES OF MORE THAN ONE STORY

1 1.4	1 2.9	1 3.1	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
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NUMBER AND PERCENTAGE OF BUILDINGS OF SMALL ELEMENTARY SCHOOLS IN CITY/SPECIAL SYSTEMS
USING SELECTED EXTERIOR CONSTRUCTION MATERIALS

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
BRICK	51 70.8	27 77.1	25 78.1	6 85.7	0 0.0	0 0.0	0 0.0
WOOD	1 1.4	1 2.9	1 3.1	0 0.0	2 50.0	0 0.0	0 0.0
METAL	0 0.0	0 0.0	0 0.0	0 0.0	1 25.0	1 100.0	1 100.0
STONE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
CONCRETE	2 2.8	1 2.9	2 6.3	0 0.0	0 0.0	0 0.0	0 0.0
OTHER	0 0.0	0 0.0	0 0.0	0 0.0	1 25.0	0 0.0	0 0.0
BRICK, WOOD	3 4.2	1 2.9	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, METAL	1 1.4	1 2.9	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, STONE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, CONCRETE	6 8.3	1 2.9	2 6.3	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, OTHER	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD, METAL	2 2.8	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD, CONCRETE	1 1.4	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, METAL, CONCRETE	3 4.2	1 2.9	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, STONE, CONCRETE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD, METAL, CONCRETE	0 0.0	1 2.9	1 3.1	1 14.3	0 0.0	0 0.0	0 0.0
ALL OTHER COMBINATIONS	2 2.8	1 2.9	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
NO RESPONSE	0 0.0	0 0.0	1 3.1	0 0.0	0 0.0	0 0.0	0 0.0
TOTAL	72 100.0	35 100.0	32 100.0	7 100.0	4 100.0	1 100.0	1 100.0

229

NUMBER AND PERCENTAGE OF BUILDINGS OF SMALL AND ELEMENTARY SCHOOLS IN CITY/SPECIAL SYSTEMS USING SPECIFIED TYPES OF HEATING, COOLING, AND LIGHTING EQUIPMENT

HEATING EQUIPMENT

	ORIGINAL	ADD1	ADD2	ADD3	TEMP2	TEMP3
JUST CENTRAL	66 91.7	29 82.9	84.4	85.7	1 100.0	0 0.0
JUST SPACE	2 2.8	2 5.9	3.1	14.3	0 0.0	1 100.0
CENTRAL & SPACE	3 4.2	1 2.9	6.3	0.0	0 0.0	0 0.0
NO RESPONSE	1 1.4	3 8.6	6.3	0.0	0 0.0	0 0.0
TOTAL	72 100.0	35 100.0	100.0	100.0	1 100.0	1 100.0

COOLING EQUIPMENT

	ORIGINAL	ADD1	ADD2	ADD3	TEMP2	TEMP3
JUST CENTRAL	8 11.1	1 2.9	12.5	0.0	1 100.0	1 100.0
JUST WINDOW UNIT	5 6.9	2 5.9	9.4	14.3	0 0.0	0 0.0
CENTRAL & WINDOW	1 1.4	0 0.0	0.0	0.0	0 0.0	0 0.0
NO MECHANICAL	58 80.6	32 91.4	78.1	85.7	0 0.0	0 0.0
TOTAL	72 100.0	35 100.0	100.0	100.0	1 100.0	1 100.0

WINDOW UNIT COOLING

	ORIGINAL	ADD1	ADD2	ADD3	TEMP2	TEMP3
ALL ROOMS	2 33.3	1 50.0	33.3	0.0	0 0.0	0 0.0
SELECTED ROOMS	3 50.0	0 0.0	0.0	0.0	0 0.0	0 0.0
NO RESPONSE	1 16.7	1 50.0	66.7	0.0	0 0.0	0 0.0
TOTAL	6 100.0	2 100.0	100.0	100.0	0 100.0	0 100.0

LIGHTING EQUIPMENT

	ORIGINAL	ADD1	ADD2	ADD3	TEMP2	TEMP3
INCANDESCENT	16 22.2	10 28.6	18.8	28.6	0 0.0	0 0.0
FLUORESCENT	54 75.0	24 68.6	78.1	57.1	1 100.0	1 100.0
BOTH	0 0.0	0 0.0	0.0	0.0	0 0.0	0 0.0
OTHER	2 2.8	1 2.9	3.1	14.3	0 0.0	0 0.0
NO RESPONSE	0 0.0	0 0.0	0.0	0.0	0 0.0	0 0.0
TOTAL	72 100.0	35 100.0	100.0	100.0	1 100.0	1 100.0

NUMBER AND PERCENTAGE OF SMALL ELEMENTARY SCHOOLS IN CITY/SPECIAL SYSTEMS
USING SPECIFIED SOURCES OF WATER SUPPLY

	NUMBER	PERCENTAGE	
WATER UTILITY	72	100.0	*****
PUMP ON PROPERTY	0	0.0	
OTHER (WELLS, ETC.)	0	0.0	
NO RESPONSE	0	0.0	
TOTAL	72	100.0	-----

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

NUMBER AND PERCENTAGE OF PRINCIPALS OF SMALL ELEMENTARY SCHOOLS IN CITY/SPECIAL SYSTEMS
EXPRESSING SPECIFIED FACILITY NEEDS

	NUMBER	PERCENTAGE	
MAINTENANCE	32	44.4	*****
CONSTRUCTION	29	40.3	*****
BOTH	3	4.2	**
NEITHER (INCLUDING NO RESPONSE)	8	11.1	****
TOTAL	72	100.0	-----

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

PLANT PROFILES: SMALL ELEMENTARY SCHOOLS IN CITY/SPECIAL SYSTEMS

CRITERION	ADEQUATE		SUBSTANDARD	
	NUMBER	PERCENTAGE	NUMBER	PERCENTAGE
1. ENROLLMENT/CAPACITY RATIO ≤ 1	69	95.8	3	4.2
2. MEETS NATIONAL SCHOOL SIZE STANDARDS	32	44.4	40	55.6
3. MEETS NATIONAL SITE SIZE STANDARDS	10	14.1	61	85.9
4. ORIGINAL BUILDING 30 YRS OLD OR LESS	34	47.2	38	52.8
5. NO TEMPORARY STRUCTURES	66	91.7	6	8.3
6. NO BASEMENT USED FOR INSTRUCTION	57	79.2	15	20.8
7. NO BUILDING OF WOOD EXCLUSIVELY	69	95.8	3	4.2
8. CENTRAL HEATING IN ORIGINAL BUILDING	69	95.8	3	4.2
9. CENTRAL AIR OR ALL WINDOW UNITS	9	12.5	57	79.2
10. COMPLETE FLUORESCENT LIGHTING	52	72.2	14	19.4
11. NO WATER UTILITY	72	100.0	0	0.0
12. MEETS 7 OF 11 OF ABOVE CRITERIA	55	76.4	0	0.0



MEDIUM ELEMENTARY SCHOOLS IN CITY/SPECIAL SYSTEMS

149 RESPONDENTS

NUMBER AND PERCENTAGE OF MEDIUM ELEMENTARY SCHOOLS IN CITY/SPECIAL SYSTEMS
USING SPECIFIED PROPORTIONS OF SCHOOL PLANT CAPACITY

ENROLLMENT/CAPACITY RATIO	NUMBER	PERCENTAGE	
ABOVE 0.0- 0.5	2	1.4	
ABOVE 0.5- 0.8	49	33.6	*****
ABOVE 0.8- 1.0	86	59.3	*****
ABOVE 1.0- 1.5	8	5.5	***
ABOVE 1.5- 2.0	0	0.0	
ABOVE 2.0-13.0	0	0.0	
TOTAL	145	100.0	-----

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

SCHOOLS THAT EXCEED CAPACITY: 8 5.5%

NUMBER AND PERCENTAGE OF MEDIUM ELEMENTARY SCHOOLS IN CITY/SPECIAL SYSTEMS
HAVING SITES OF SPECIFIED SIZES (IN ACRES)

ACRES	NUMBER	PERCENTAGE	
0- LESS THAN 1	0	0.0	
1- LESS THAN 5	33	23.1	*****
5- LESS THAN 10	36	25.2	*****
10- LESS THAN 20	57	39.9	*****
20- LESS THAN 30	11	7.7	****
30- LESS THAN 50	6	4.2	**
50- LESS THAN 100	0	0.0	
TOTAL	143	100.0	-----

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

MEDIAN SCHOOL SITE SIZE IS 10 ACRES

NUMBER AND PERCENTAGE OF MEDIUM ELEMENTARY SCHOOLS IN CITY/SPECIAL SYSTEMS
MEETING SITE SIZE REQUIREMENTS: 38 26.6%

NUMBER AND PERCENTAGE OF BUILDINGS OF MEDIUM ELEMENTARY SCHOOLS IN CITY/SPECIAL SYSTEMS OCCURRING AT SPECIFIED STAGES OF THE SCHOOL LIFE CYCLE

AGE (IN YEARS)	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
60 OR OVER	8 5.4	2 2.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
40- LESS THAN 60	30 20.4	6 6.1	2 3.3	0 0.0	0 0.0	0 0.0	0 0.0
20- LESS THAN 40	44 29.9	29 29.3	16 26.2	4 16.0	1 4.3	0 0.0	0 0.0
LESS THAN 20	65 44.2	62 62.6	43 70.5	21 84.0	22 95.7	6 100.0	7 100.0
TOTAL	147 100.0	99 100.0	61 100.0	25 100.0	23 100.0	6 100.0	7 100.0

NUMBER AND PERCENTAGE OF BUILDINGS OF MEDIUM ELEMENTARY SCHOOLS IN CITY/SPECIAL SYSTEMS CONSTRUCTED OR ADDED IN SPECIFIED DECADES, 1840-1973

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
AFTER 1840 - 1870	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1870 - 1880	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1880 - 1890	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1890 - 1900	2 1.4	1 1.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1900 - 1910	4 2.7	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1910 - 1920	15 10.2	2 2.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1920 - 1930	15 10.2	5 5.1	2 3.3	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1930 - 1940	13 8.8	7 7.1	2 3.3	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1940 - 1950	16 10.9	11 11.1	8 13.1	2 8.0	0 0.0	0 0.0	0 0.0
AFTER 1950 - 1960	52 35.4	43 43.4	29 47.5	7 28.0	4 17.4	0 0.0	0 0.0
AFTER 1960 - 1970	27 18.4	26 26.3	16 26.2	13 52.0	15 65.2	1 16.7	3 42.9
AFTER 1970 - 1973	3 2.0	4 4.0	4 6.6	3 12.0	4 17.4	5 83.3	4 57.1
TOTAL	147 100.0	99 100.0	61 100.0	25 100.0	23 100.0	6 100.0	7 100.0

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
OLDEST STRUCTURE	1897	1899	1921	1943	1952	1970	1966
MEAN YEAR OF CONSTRUCTION	1946	1953	1956	1962	1966	1971	1969

NUMBER AND PERCENTAGE OF MEDIUM ELEMENTARY SCHOOLS IN CITY/SPECIAL SYSTEMS HAVING SPECIFIED NUMBERS OF ADDITIONAL AND TEMPORARY STRUCTURES

	ADDITIONS	TEMPORARIES
0	41 27.5	121 81.2
1	53 35.6	23 15.4
2	33 22.1	2 1.3
3	22 14.8	3 2.0
TOTAL	149 100.0	149 100.0

NUMBER AND PERCENTAGE OF BUILDINGS OF MEDIUM ELEMENTARY SCHOOLS IN CITY/SPECIAL SYSTEMS
UTILIZING BASEMENTS FOR INSTRUCTION OR OTHER PROGRAMS INVOLVING STUDENTS

ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
29 19.5	10 10.1	6 9.8	3 12.0	1 4.3	0 0.0	0 0.0

SCHOOLS USING BASEMENT OF SOME STRUCTURE FOR INSTRUCTION: 32 21.5%

NUMBER AND PERCENTAGE OF BUILDINGS OF MEDIUM ELEMENTARY SCHOOLS IN CITY/SPECIAL SYSTEMS
HAVING SPECIFIED NUMBERS OF STORIES (EXCLUDING BASEMENT)

NUMBER OF STORIES	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
1 STORY	84 56.4	67 67.7	41 67.2	20 80.0	23 100.0	6 100.0	7 100.0
2 STORIES	49 32.9	27 27.3	14 23.0	4 16.0	0 0.0	0 0.0	0 0.0
3 STORIES	16 10.7	5 5.1	6 9.8	1 4.0	0 0.0	0 0.0	0 0.0
4 STORIES	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
TOTAL	149 100.0	99 100.0	61 100.0	25 100.0	23 100.0	6 100.0	7 100.0

TWO STORIES OR MORE BUILT BEFORE 1920	17 11.4	2 2.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
ALL WOOD STRUCTURES OF MORE THAN ONE STORY	1 0.7	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0

NUMBER AND PERCENTAGE OF BUILDINGS OF MEDIUM ELEMENTARY SCHOOLS IN CITY/SPECIAL SYSTEMS
USING SELECTED EXTERIOR CONSTRUCTION MATERIALS

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
BRICK	111 74.5	77 77.8	51 83.6	21 84.0	2 8.7	0 0.0	0 0.0
WOOD	4 2.7	1 1.0	0 0.0	0 0.0	4 17.4	2 33.3	0 0.0
METAL	0 0.0	1 1.0	0 0.0	0 0.0	13 56.5	3 50.0	2 28.6
STONE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
CONCRETE	5 3.4	1 1.0	0 0.0	1 4.0	0 0.0	0 0.0	0 0.0
OTHER	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	1 16.7	2 28.6
BRICK, WOOD	2 1.3	1 1.0	1 1.6	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, METAL	1 0.7	2 2.0	2 3.3	1 4.0	1 4.3	0 0.0	0 0.0
BRICK, STONE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, CONCRETE	7 4.7	3 3.0	1 1.6	1 4.0	0 0.0	0 0.0	0 0.0
BRICK, OTHER	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD, METAL	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD, CONCRETE	3 2.0	3 3.0	2 3.3	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, METAL, CONCRETE	6 4.0	4 4.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, STONE, CONCRETE	1 0.7	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD, METAL, CONCRETE	3 2.0	2 2.0	1 1.6	1 4.0	0 0.0	0 0.0	0 0.0
ALL OTHER COMBINATIONS	5 3.4	0 0.0	0 0.0	0 0.0	2 8.7	0 0.0	1 14.3
NO REUSE	1 0.7	4 4.0	3 4.9	0 0.0	1 4.3	0 0.0	2 28.6
TOTAL	149 100.0	99 100.0	61 100.0	25 100.0	23 100.0	6 100.0	7 100.0

234

NUMBER AND PERCENTAGE OF BUILDINGS OF MEDIUM ELEMENTARY SCHOOLS IN CITY/SPECIAL SYSTEMS
USING SPECIFIED TYPES OF HEATING, COOLING, AND LIGHTING EQUIPMENT

HEATING EQUIPMENT

	ORIGINAL		ADD1		ADD2		ADD3		TEMP1		TEMP2		TEMP3	
JUST CENTRAL	125	83.9	77	77.8	46	75.4	18	72.0	9	39.1	1	16.7	0	0.0
JUST SPACE	15	10.1	11	11.1	7	11.5	3	12.0	10	43.5	4	66.7	4	57.1
CENTRAL & SPACE	7	4.7	4	4.0	3	4.9	2	8.0	0	0.0	0	0.0	0	0.0
NO RESPONSE	2	1.3	7	7.1	5	8.2	2	8.0	4	17.4	1	16.7	3	42.9
TOTAL	149	100.0	99	100.0	61	100.0	25	100.0	23	100.0	6	100.0	7	100.0

COOLING EQUIPMENT

	ORIGINAL		ADD1		ADD2		ADD3		TEMP1		TEMP2		TEMP3	
JUST CENTRAL	21	14.1	10	10.1	7	11.5	4	16.0	12	52.2	2	33.3	2	28.6
JUST WINDOW UNIT	35	23.5	11	11.1	4	6.6	3	12.0	3	13.0	1	16.7	1	14.3
CENTRAL & WINDOW	2	1.3	2	2.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
NO MECHANICAL	91	61.1	76	76.8	50	82.0	18	72.0	8	34.8	3	50.0	4	57.1
TOTAL	149	100.0	99	100.0	61	100.0	25	100.0	23	100.0	6	100.0	7	100.0

WINDOW UNIT COOLING

	ORIGINAL		ADD1		ADD2		ADD3		TEMP1		TEMP2		TEMP3	
ALL ROOMS	11	29.7	6	46.2	2	50.0	2	66.7	3	100.0	1	100.0	0	0.0
SELECTED ROOMS	22	59.5	5	38.5	1	25.0	0	0.0	0	0.0	0	0.0	1	100.0
NO RESPONSE	4	10.8	2	15.4	1	25.0	1	33.3	0	0.0	0	0.0	0	0.0
TOTAL	37	100.0	13	100.0	4	100.0	3	100.0	3	100.0	1	100.0	1	100.0

LIGHTING EQUIPMENT

	ORIGINAL		ADD1		ADD2		ADD3		TEMP1		TEMP2		TEMP3	
INCANDESCENT	26	17.4	19	19.2	10	16.4	7	28.0	3	13.0	0	0.0	1	14.3
FLUORESCENT	117	78.5	76	76.8	47	77.0	17	68.0	18	78.3	5	83.3	3	42.9
BOTH	3	2.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
OTHER	3	2.0	2	2.0	2	3.3	0	0.0	0	0.0	0	0.0	0	0.0
NO RESPONSE	0	0.0	2	2.0	2	3.3	1	4.0	2	8.7	1	16.7	3	42.9
TOTAL	149	100.0	99	100.0	61	100.0	25	100.0	23	100.0	6	100.0	7	100.0

NUMBER AND PERCENTAGE OF MEDIUM ELEMENTARY SCHOOLS IN CITY/SPECIAL SYSTEMS
USING SPECIFIED SOURCES OF WATER SUPPLY

	NUMBER	PERCENTAGE	
WATER UTILITY	149	100.0	*****
PUMP ON PROPERTY	0	0.0	
OTHER (WELLS, ETC.)	0	0.0	
NO RESPONSE	0	0.0	
TOTAL	149	100.0	-----

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

NUMBER AND PERCENTAGE OF PRINCIPALS OF MEDIUM ELEMENTARY SCHOOLS IN CITY/SPECIAL SYSTEMS
EXPRESSING SPECIFIED FACILITY NEEDS

	NUMBER	PERCENTAGE	
MAINTENANCE	88	59.1	*****
CONSTRUCTION	34	22.8	*****
BCTH	2	1.3	
NEITHER (INCLUDING NO RESPONSE)	25	16.8	*****
TOTAL	149	100.0	-----

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

PLANT PROFILES: MEDIUM ELEMENTARY SCHOOLS IN CITY/SPECIAL SYSTEMS

CRITERION	ADEQUATE		SUBSTANDARD	
	NUMBER	PERCENTAGE	NUMBER	PERCENTAGE
1. ENROLLMENT/CAPACITY RATIO <= 1	137	94.5	8	5.5
2. MEETS NATIONAL SCHOOL SIZE STANDARDS	77	51.7	72	48.3
3. MEETS NATIONAL SITE SIZE STANDARDS	38	26.6	105	73.4
4. ORIGINAL BUILDING 30 YRS OLD OR LESS	96	65.3	51	34.7
5. NO TEMPORARY STRUCTURES	121	81.2	28	18.8
6. NO BASEMENT USED FOR INSTRUCTION	117	78.5	32	21.5
7. NO BUILDING OF WOOD EXCLUSIVELY	140	94.0	9	6.0
8. CENTRAL HEATING IN ORIGINAL BUILDING	132	88.6	17	11.4
9. CENTRAL AIR OR ALL WINDOW UNITS	37	24.8	74	49.7
10. COMPLETE FLUORESCENT LIGHTING	113	75.8	20	13.4
11. USE OF WATER UTILITY	149	100.0	0	0.0
12. MEETS 7 OF 11 OF ABOVE CRITERIA	120	80.5	3	2.0

DATA DISPLAY 4.15

LARGE ELEMENTARY SCHOOLS IN CITY/SPECIAL SYSTEMS

52 RESPONDENTS

NUMBER AND PERCENTAGE OF LARGE ELEMENTARY SCHOOLS IN CITY/SPECIAL SYSTEMS
USING SPECIFIED PROPORTIONS OF SCHOOL PLANT CAPACITY

ENROLLMENT/CAPACITY		NUMBER	PERCENTAGE	
	RATIO			
ABOVE	0.0- 0.5	1	2.0	*
ABOVE	0.5- 0.8	18	35.3	*****
ABOVE	0.8- 1.0	19	37.3	*****
ABOVE	1.0- 1.5	13	25.5	*****
ABOVE	1.5- 2.0	0	0.0	
ABOVE	2.0-13.0	0	0.0	
TOTAL		51	100.0	-----
10% 20% 30% 40% 50% 60% 70% 80% 90% 100%				

SCHOOLS THAT EXCEED CAPACITY: 13 25.5%

NUMBER AND PERCENTAGE OF LARGE ELEMENTARY SCHOOLS IN CITY/SPECIAL SYSTEMS
HAVING SITES OF SPECIFIED SIZES (IN ACRES).

ACRES	NUMBER	PERCENTAGE	
0- LESS THAN 1	0	0.0	
1- LESS THAN 5	5	9.8	*****
5- LESS THAN 10	17	33.3	*****
10- LESS THAN 20	20	39.2	*****
20- LESS THAN 30	8	15.7	*****
30- LESS THAN 50	1	2.0	*
50- LESS THAN 100	0	0.0	
TOTAL	51	100.0	-----
10% 20% 30% 40% 50% 60% 70% 80% 90% 100%			

MEDIAN SCHOOL SITE SIZE IS 10 ACRES

NUMBER AND PERCENTAGE OF LARGE ELEMENTARY SCHOOLS IN CITY/SPECIAL SYSTEMS
MEETING SITE SIZE REQUIREMENTS: 10 19.6%

NUMBER AND PERCENTAGE OF BUILDINGS OF LARGE ELEMENTARY SCHOOLS IN CITY/SPECIAL SYSTEMS
OCCURRING AT SPECIFIED STAGES OF THE SCHOOL LIFE CYCLE

AGE (IN YEARS)	ORIGINAL		ADD1		ADD2		ADD3		TEMP1		TEMP2		TEMP3	
60 OR OVER	2	3.9	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
40- LESS THAN 60	9	17.6	1	2.7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
20- LESS THAN 40	15	29.4	12	32.4	8	33.3	2	16.7	0	0.0	0	0.0	0	0.0
LESS THAN 20	25	49.0	24	64.9	16	66.7	10	83.3	11	100.0	7	100.0	5	100.0
TOTAL	51	100.0	37	100.0	24	100.0	12	100.0	11	100.0	7	100.0	5	100.0

NUMBER AND PERCENTAGE OF BUILDINGS OF LARGE ELEMENTARY SCHOOLS IN CITY/SPECIAL SYSTEMS
CONSTRUCTED OR ADDED IN SPECIFIED DECADES, 1840-1973

	ORIGINAL		ADD1		ADD2		ADD3		TEMP1		TEMP2		TEMP3	
AFTER 1840 - 1870	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1870 - 1880	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1880 - 1890	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1890 - 1900	1	2.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1900 - 1910	1	2.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1910 - 1920	1	2.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1920 - 1930	7	13.7	1	2.7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1930 - 1940	5	9.8	1	2.7	1	4.2	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1940 - 1950	6	11.8	6	16.2	4	16.7	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1950 - 1960	18	35.3	13	35.1	9	37.5	6	50.0	2	18.2	0	0.0	0	0.0
AFTER 1960 - 1970	9	17.6	15	40.5	10	41.7	6	50.0	4	36.4	3	42.9	2	40.0
AFTER 1970 - 1973	3	5.9	1	2.7	0	0.0	0	0.0	5	45.5	4	57.1	3	60.0
TOTAL	51	100.0	37	100.0	24	100.0	12	100.0	11	100.0	7	100.0	5	100.0

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
OLDEST STRUCTURE	1898	1921	1938	1951	1958	1961	1970
MEAN YEAR OF CONSTRUCTION	1948	1956	1957	1961	1968	1969	1971

NUMBER AND PERCENTAGE OF LARGE ELEMENTARY SCHOOLS IN CITY/SPECIAL SYSTEMS
HAVING SPECIFIED NUMBERS OF ADDITIONAL AND TEMPORARY STRUCTURES

	ADDITIONS		TEMPORARIES	
0	14	26.9	38	73.1
1	14	26.9	0	15.4
2	13	25.0	3	5.8
3	11	21.2	3	5.8
TOTAL	52	100.0	52	100.0

NUMBER AND PERCENTAGE OF BUILDINGS OF LARGE ELEMENTARY SCHOOLS IN CITY/SPECIAL SYSTEMS
UTILIZING BASEMENTS FOR INSTRUCTION OR OTHER PROGRAMS INVOLVING STUDENTS

ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
9 17.3	3 8.1	0 0.0	0 0.0	1 9.1	1 14.3	1 20.0

SCHOOLS USING BASEMENT OF SOME STRUCTURE FOR INSTRUCTION: 11 21.2%

NUMBER AND PERCENTAGE OF BUILDINGS OF LARGE ELEMENTARY SCHOOLS IN CITY/SPECIAL SYSTEMS
HAVING SPECIFIED NUMBERS OF STORIES (EXCLUDING BASEMENT)

NUMBER OF STORIES	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
1 STORY	24 46.2	18 48.6	15 62.5	7 58.3	10 90.9	7 100.0	5 100.0
2 STORIES	17 32.7	14 37.8	7 29.2	4 33.3	1 9.1	0 0.0	0 0.0
3 STORIES	11 21.2	5 13.5	2 8.3	1 8.3	0 0.0	0 0.0	0 0.0
4 STORIES	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
TOTAL	52 100.0	37 100.0	24 100.0	12 100.0	11 100.0	7 100.0	5 100.0

TWO STORIES OR MORE BUILT BEFORE 1920

4 7.7	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
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ALL WOOD STRUCTURES OF MORE THAN ONE STORY

0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
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NUMBER AND PERCENTAGE OF BUILDINGS OF LARGE ELEMENTARY SCHOOLS IN CITY/SPECIAL SYSTEMS
USING SELECTED EXTERIOR CONSTRUCTION MATERIALS

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
BRICK	41 78.8	33 89.2	23 95.8	11 91.7	1 9.1	0 0.0	0 0.0
WOOD	1 1.9	0 0.0	0 0.0	0 0.0	4 36.4	2 28.6	2 40.0
METAL	0 0.0	0 0.0	0 0.0	0 0.0	4 36.4	4 57.1	2 40.0
STONE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
CONCRETE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
OTHER	1 1.9	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, METAL	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, STONE	3 5.8	1 2.7	1 4.2	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, CONCRETE	3 5.8	2 5.4	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, OTHER	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD, METAL	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD, CONCRETE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, METAL, CONCRETE	1 1.9	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, STONE, CONCRETE	1 1.9	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD, METAL, CONCRETE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
ALL OTHER COMBINATIONS	1 1.9	0 0.0	0 0.0	0 0.0	1 9.1	1 14.3	0 0.0
NC RESPONSE	0 0.0	1 2.7	0 0.0	1 8.3	1 9.1	0 0.0	1 20.0
TOTAL	52 100.0	37 100.0	24 100.0	12 100.0	11 100.0	7 100.0	5 100.0

239

NUMBER AND PERCENTAGE OF BUILDINGS OF LARGE ELEMENTARY SCHOOLS IN CITY/SPECIAL SYSTEMS
USING SPECIFIED TYPES OF HEATING, COOLING, AND LIGHTING EQUIPMENT

HEATING EQUIPMENT

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
JUST CENTRAL	44 84.6	28 75.7	16 66.7	7 58.3	3 27.3	1 14.3	2 40.0
JUST SPACE	1 1.9	1 2.7	3 12.5	2 16.7	5 45.5	4 57.1	1 20.0
CENTRAL & SPACE	4 7.7	5 13.5	3 12.5	0 0.0	1 9.1	1 14.3	0 0.0
NO RESPONSE	3 5.8	3 8.1	2 8.3	3 25.0	2 18.2	1 14.3	2 40.0
TOTAL	52 100.0	37 100.0	24 100.0	12 100.0	11 100.0	7 100.0	5 100.0

COOLING EQUIPMENT

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
JUST CENTRAL	12 23.1	5 13.5	0 0.0	1 8.3	6 54.5	6 85.7	4 80.0
JUST WINDOW UNIT	9 17.3	5 13.5	4 16.7	0 0.0	0 0.0	0 0.0	0 0.0
CENTRAL & WINDOW	1 1.9	1 2.7	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
NO MECHANICAL	30 57.7	26 70.3	20 83.3	11 91.7	5 45.5	1 14.3	1 20.0
TOTAL	52 100.0	37 100.0	24 100.0	12 100.0	11 100.0	7 100.0	5 100.0

WINDOW UNIT COOLING

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
ALL ROOMS	1 10.0	1 16.7	2 50.0	0 0.0	0 0.0	0 0.0	0 0.0
SELECTED ROOMS	7 70.0	2 33.3	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
NO RESPONSE	2 20.0	3 50.0	2 50.0	0 0.0	0 0.0	0 0.0	0 0.0
TOTAL	10 100.0	6 100.0	4 100.0	0 100.0	0 100.0	0 100.0	0 100.0

LIGHTING EQUIPMENT

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
INCANDESCENT	11 21.2	4 10.8	1 4.2	1 8.3	1 9.1	1 14.3	0 0.0
FLUORESCENT	40 76.9	31 83.8	23 95.8	11 91.7	9 81.8	6 85.7	3 60.0
BOTH	1 1.9	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
OTHER	3 5.8	0 0.0	1 4.2	0 0.0	0 0.0	0 0.0	0 0.0
NO RESPONSE	0 0.0	2 5.4	0 0.0	0 0.0	1 9.1	0 0.0	2 40.0
TOTAL	52 100.0	37 100.0	24 100.0	12 100.0	11 100.0	7 100.0	5 100.0

NUMBER AND PERCENTAGE OF LARGE ELEMENTARY SCHOOLS IN CITY/SPECIAL SYSTEMS
USING SPECIFIED SOURCES OF WATER SUPPLY

	NUMBER	PERCENTAGE	
WATER UTILITY	52	100.0	*****
PUMP ON PROPERTY	0	0.0	
OTHER (WELLS, ETC.)	0	0.0	
NO RESPONSE	0	0.0	
TOTAL	52	100.0	-----

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

NUMBER AND PERCENTAGE OF PRINCIPALS OF LARGE ELEMENTARY SCHOOLS IN CITY/SPECIAL SYSTEMS
EXPRESSING SPECIFIED FACILITY NEEDS

	NUMBER	PERCENTAGE	
MAINTENANCE	28	53.8	*****
CONSTRUCTION	10	19.2	*****
BOTH	3	5.8	***
NEITHER (INCLUDING NO RESPONSE)	11	21.2	*****
TOTAL	52	100.0	-----

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

PLANT PROFILES: LARGE ELEMENTARY SCHOOLS IN CITY/SPECIAL SYSTEMS

CRITERION	ADEQUATE		SUBSTANDARD	
	NUMBER	PERCENTAGE	NUMBER	PERCENTAGE
1. ENROLLMENT/CAPACITY RATIO <= 1	38	74.5	13	25.5
2. MEETS NATIONAL SCHOOL SIZE STANDARDS	0	0.0	52	100.0
3. MEETS NATIONAL SITE SIZE STANDARDS	10	19.6	41	80.4
4. ORIGINAL BUILDING 30 YRS OLD OR LESS	36	70.6	15	29.4
5. NO TEMPORARY STRUCTURES	38	73.1	14	26.9
6. NO BASEMENT USED FOR INSTRUCTION	41	78.8	11	21.2
7. NO BUILDING OF WOOD EXCLUSIVELY	46	88.5	6	11.5
8. CENTRAL HEATING IN ORIGINAL BUILDING	48	92.3	4	7.7
9. CENTRAL AIR OR ALL WINDOW UNITS	13	25.0	25	48.1
10. COMPLETE FLUORESCENT LIGHTING	39	75.0	6	11.5
11. USE OF WATER UTILITY	52	100.0	0	0.0
5 7 OF 11 OF ABOVE CRITERIA	29	55.8	2	3.8

SMALL MIDDLE SCHOOLS IN CITY/SPECIAL SYSTEMS

5 RESPONDENTS

NUMBER AND PERCENTAGE OF SMALL MIDDLE SCHOOLS IN CITY/SPECIAL SYSTEMS
USING SPECIFIED PROPORTIONS OF SCHOOL PLANT CAPACITY

ENROLLMENT/CAPACITY		NUMBER	PERCENTAGE	
ABOVE	RATIO			
ABOVE	0.0- 0.5	1	20.0	*****
ABOVE	0.5- 0.8	2	40.0	*****
ABOVE	0.8- 1.0	2	40.0	*****
ABOVE	1.0- 1.5	0	0.0	
ABOVE	1.5- 2.0	0	0.0	
ABOVE	2.0-13.0	0	0.0	
TOTAL		5	100.0	-----

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

SCHOOLS THAT EXCEED CAPACITY: 0 0.0%

NUMBER AND PERCENTAGE OF SMALL MIDDLE SCHOOLS IN CITY/SPECIAL SYSTEMS
HAVING SITES OF SPECIFIED SIZES (IN ACRES).

ACRES	NUMBER	PERCENTAGE	
0- LESS THAN 1	0	0.0	
1- LESS THAN 5	3	60.0	*****
5- LESS THAN 10	2	40.0	*****
10- LESS THAN 20	0	0.0	
20- LESS THAN 30	0	0.0	
30- LESS THAN 50	0	0.0	
50- LESS THAN 100	0	0.0	
TOTAL	5	100.0	-----

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

MEDIAN SCHOOL SITE SIZE IS 4 ACRES

NUMBER AND PERCENTAGE OF SMALL MIDDLE SCHOOLS IN CITY/SPECIAL SYSTEMS
MEETING SITE SIZE REQUIREMENTS: 0 0.0%



NUMBER AND PERCENTAGE OF BUILDINGS OF SMALL MIDDLE SCHOOLS IN CITY/SPECIAL SYSTEMS
OCCURRING AT SPECIFIED STAGES OF THE SCHOOL LIFE CYCLE

AGE (IN YEARS)	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
60 OR OVER	1 20.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
40- LESS THAN 60	3 60.0	1 20.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
20- LESS THAN 40	1 20.0	2 40.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
LESS THAN 20	0 0.0	2 40.0	2 100.0	2 100.0	1 100.0	0 0.0	0 0.0
TOTAL	5 100.0	5 100.0	2 100.0	2 100.0	1 100.0	0 100.0	0 100.0

NUMBER AND PERCENTAGE OF BUILDINGS OF SMALL MIDDLE SCHOOLS IN CITY/SPECIAL SYSTEMS
CONSTRUCTED OR ADDED IN SPECIFIED DECADES, 1840-1973

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
AFTER 1840 - 1870	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1870 - 1880	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1880 - 1890	1 20.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1890 - 1900	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1900 - 1910	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1910 - 1920	0 0.0	1 20.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1920 - 1930	3 60.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1930 - 1940	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1940 - 1950	0 0.0	1 20.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1950 - 1960	1 20.0	3 60.0	2 100.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1960 - 1970	0 0.0	0 0.0	0 0.0	2 100.0	0 0.0	0 0.0	0 0.0
AFTER 1970 - 1973	0 0.0	0 0.0	0 0.0	0 0.0	1 100.0	0 0.0	0 0.0
TOTAL	5 100.0	5 100.0	2 100.0	2 100.0	1 100.0	0 100.0	0 100.0

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
OLDEST STRUCTURE	1883	1916	1957	1964	1972	0	0
MEAN YEAR OF CONSTRUCTION	1921	1945	1958	1964	1972	0	0

NUMBER AND PERCENTAGE OF SMALL MIDDLE SCHOOLS IN CITY/SPECIAL SYSTEMS
HAVING SPECIFIED NUMBERS OF ADDITIONAL AND TEMPORARY STRUCTURES

	ADDITIONS	TEMPORARIES
0	0 0.0	4 80.0
1	2 40.0	1 20.0
2	2 40.0	0 0.0
3	1 20.0	0 0.0
TOTAL	5 100.0	5 100.0

NUMBER AND PERCENTAGE OF BUILDINGS OF SMALL MIDDLE SCHOOLS IN CITY/SPECIAL SYSTEMS
UTILIZING BASEMENTS FOR INSTRUCTION OR OTHER PROGRAMS INVOLVING STUDENTS

ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
3 60.0	1 20.0	1 50.0	0 0.0	0 0.0	0 0.0	0 0.0

SCHOOLS USING BASEMENT OF SOME STRUCTURE FOR INSTRUCTION: 3 60.0%

NUMBER AND PERCENTAGE OF BUILDINGS OF SMALL MIDDLE SCHOOLS IN CITY/SPECIAL SYSTEMS
HAVING SPECIFIED NUMBERS OF STORIES (EXCLUDING BASEMENT)

NUMBER OF STORIES	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
1 STORY	2 40.0	1 20.0	1 50.0	1 50.0	1 100.0	0 0.0	0 0.0
2 STORIES	2 40.0	3 60.0	1 50.0	1 50.0	0 0.0	0 0.0	0 0.0
3 STORIES	1 20.0	1 20.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
4 STORIES	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
TOTAL	5 100.0	5 100.0	2 100.0	2 100.0	1 100.0	0 100.0	0 100.0

TWO STORIES OR MORE BUILT BEFORE 1920

1 20.0	1 20.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
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ALL WOOD STRUCTURES OF MORE THAN ONE STORY

0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
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NUMBER AND PERCENTAGE OF BUILDINGS OF SMALL MIDDLE SCHOOLS IN CITY/SPECIAL SYSTEMS
USING SELECTED EXTERIOR CONSTRUCTION MATERIALS

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
BRICK	4 80.0	3 60.0	2 100.0	2 100.0	1 100.0	0 0.0	0 0.0
WOOD	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
METAL	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
STONE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
CONCRETE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
OTHER	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, METAL	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, STONE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, CONCRETE	1 20.0	2 40.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, OTHER	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD, METAL	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD, CONCRETE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, METAL, CONCRETE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, STONE, CONCRETE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD, METAL, CONCRETE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
ALL OTHER COMBINATIONS	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
NO RESPONSE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
TOTAL	5 100.0	5 100.0	2 100.0	2 100.0	1 100.0	0 100.0	0 100.0

244

NUMBER AND PERCENTAGE OF BUILDINGS OF SMALL MIDDLE SCHOOLS IN CITY/SPECIAL SYSTEMS
USING SPECIFIED TYPES OF HEATING, COOLING, AND LIGHTING EQUIPMENT

HEATING EQUIPMENT

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
JUST CENTRAL	5 100.0	5 100.0	2 100.0	2 100.0	1 100.0	0 0.0	0 0.0
JUST SPACE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
CENTRAL & SPACE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
NO RESPONSE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
TOTAL	5 100.0	5 100.0	2 100.0	2 100.0	1 100.0	0 100.0	0 100.0

COOLING EQUIPMENT

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
JUST CENTRAL	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
JUST WINDOW UNIT	0 0.0	3 60.0	0 0.0	1 50.0	0 0.0	0 0.0	0 0.0
CENTRAL & WINDOW	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
NO MECHANICAL	5 100.0	2 40.0	2 100.0	1 50.0	1 100.0	0 0.0	0 0.0
TOTAL	5 100.0	5 100.0	2 100.0	2 100.0	1 100.0	0 100.0	0 100.0

WINDOW UNIT COOLING

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
ALL ROOMS	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
SELECTED ROOMS	0 0.0	3 100.0	0 0.0	1 100.0	0 0.0	0 0.0	0 0.0
NO RESPONSE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
TOTAL	0 100.0	3 100.0	0 100.0	1 100.0	0 100.0	0 100.0	0 100.0

LIGHTING EQUIPMENT

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
INCANDESCENT	1 20.0	1 20.0	0 0.0	1 50.0	0 0.0	0 0.0	0 0.0
FLUCRESCENT	3 60.0	4 80.0	2 100.0	1 50.0	0 0.0	0 0.0	0 0.0
BOTH	1 20.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
OTHER	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
NO RESPONSE	0 0.0	0 0.0	0 0.0	0 0.0	1 100.0	0 0.0	0 0.0
TOTAL	5 100.0	5 100.0	2 100.0	2 100.0	1 100.0	0 100.0	0 100.0

NUMBER AND PERCENTAGE OF SMALL MIDDLE SCHOOLS IN CITY/SPECIAL SYSTEMS
USING SPECIFIED SOURCES OF WATER SUPPLY

	NUMBER	PERCENTAGE	
WATER UTILITY	5	100.0	*****
PUMP ON PROPERTY	0	0.0	
OTHER (WELLS, ETC.)	0	0.0	
NO RESPONSE	0	0.0	
TOTAL	5	100.0	-----

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

NUMBER AND PERCENTAGE OF PRINCIPALS OF SMALL MIDDLE SCHOOLS IN CITY/SPECIAL SYSTEMS
EXPRESSING SPECIFIED FACILITY NEEDS

	NUMBER	PERCENTAGE	
MAINTENANCE	2	40.0	*****
CONSTRUCTION	3	60.0	*****
BOTH	0	0.0	
NEITHER (INCLUDING NO RESPONSE)	0	0.0	
TOTAL	5	100.0	-----

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

PLANT PROFILES: SMALL MIDDLE SCHOOLS IN CITY/SPECIAL SYSTEMS

CRITERION	ADEQUATE		SUBSTANDARD	
	NUMBER	PERCENTAGE	NUMBER	PERCENTAGE
1. ENROLLMENT/CAPACITY RATIO <= 1	5	100.0	0	0.0
2. MEETS NATIONAL SCHOOL SIZE STANDARDS	2	40.0	3	60.0
3. MEETS NATIONAL SITE SIZE STANDARDS	0	0.0	5	100.0
4. ORIGINAL BUILDING 30 YRS OLD OR LESS	1	20.0	4	80.0
5. NO TEMPORARY STRUCTURES	4	80.0	1	20.0
6. NO BASEMENT USED FOR INSTRUCTION	2	40.0	3	60.0
7. NO BUILDING OF WOOD EXCLUSIVELY	5	100.0	0	0.0
8. CENTRAL HEATING IN ORIGINAL BUILDING	5	100.0	0	0.0
9. CENTRAL AIR OR ALL WINDOW UNITS	0	0.0	2	40.0
10. COMPLETE FLUORESCENT LIGHTING	4	80.0	1	20.0
11. USE OF WATER UTILITY	5	100.0	0	0.0
12. MEETS 7 OF 11 OF ABOVE CRITERIA	2	40.0	0	0.0

DATA DISPLAY 4.17

MEDIUM MIDDLE SCHOOLS IN CITY/SPECIAL SYSTEMS

25 RESPONDENTS

NUMBER AND PERCENTAGE OF MEDIUM MIDDLE SCHOOLS IN CITY/SPECIAL SYSTEMS
USING SPECIFIED PROPORTIONS OF SCHOOL PLANT CAPACITY

ENROLLMENT/CAPACITY RATIO	NUMBER	PERCENTAGE	
ABOVE 0.0- 0.5	0	0.0	
ABOVE 0.5- 0.8	11	45.8	*****
ABOVE 0.8- 1.0	8	33.3	*****
ABOVE 1.0- 1.5	5	20.8	*****
ABOVE 1.5- 2.0	0	0.0	
ABOVE 2.0-13.0	0	0.0	
TOTAL	24	100.0	-----

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

SCHOOLS THAT EXCEED CAPACITY: 5 20.8%

NUMBER AND PERCENTAGE OF MEDIUM MIDDLE SCHOOLS IN CITY/SPECIAL SYSTEMS
HAVING SITES OF SPECIFIED SIZES (IN ACRES)

ACRES	NUMBER	PERCENTAGE	
0- LESS THAN 1	0	0.0	
1- LESS THAN 5	3	12.5	*****
5- LESS THAN 10	8	33.3	*****
10- LESS THAN 20	5	20.8	*****
20- LESS THAN 30	4	16.7	*****
30- LESS THAN 50	4	16.7	*****
50- LESS THAN 100	0	0.0	
TOTAL	24	100.0	-----

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

MEDIAN SCHOOL SITE SIZE IS 11 ACRES

NUMBER AND PERCENTAGE OF MEDIUM MIDDLE SCHOOLS IN CITY/SPECIAL SYSTEMS
MEETING SITE SIZE REQUIREMENTS: 5 20.8%

NUMBER AND PERCENTAGE OF BUILDINGS OF MEDIUM MIDDLE SCHOOLS IN CITY/SPECIAL SYSTEMS
OCCURRING AT SPECIFIED STAGES OF THE SCHOOL LIFE CYCLE

AGE (IN YEARS)	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
60 OR OVER	2 8.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
40- LESS THAN 60	8 32.0	1 12.5	1 16.7	0 0.0	0 0.0	0 0.0	0 0.0
20- LESS THAN 40	3 12.0	1 12.5	1 16.7	1 50.0	0 0.0	0 0.0	0 0.0
LESS THAN 20	12 48.0	6 75.0	4 66.7	1 50.0	2 100.0	2 100.0	0 0.0
TOTAL	25 100.0	8 100.0	6 100.0	2 100.0	2 100.0	2 100.0	0 100.0

NUMBER AND PERCENTAGE OF BUILDINGS OF MEDIUM MIDDLE SCHOOLS IN CITY/SPECIAL SYSTEMS
CONSTRUCTED OR ADDED IN SPECIFIED DECADES, 1840-1973

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
AFTER 1840 - 1870	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1870 - 1880	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1880 - 1890	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1890 - 1900	1 4.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1900 - 1910	1 4.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1910 - 1920	2 8.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1920 - 1930	5 20.0	1 12.5	1 16.7	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1930 - 1940	2 8.0	0 0.0	1 16.7	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1940 - 1950	1 4.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1950 - 1960	7 28.0	5 62.5	2 33.3	1 50.0	0 0.0	0 0.0	0 0.0
AFTER 1960 - 1970	5 20.0	2 25.0	1 16.7	1 50.0	1 50.0	0 0.0	0 0.0
AFTER 1970 - 1973	1 4.0	0 0.0	1 16.7	0 0.0	1 50.0	2 100.0	0 0.0
TOTAL	25 100.0	8 100.0	6 100.0	2 100.0	2 100.0	2 100.0	0 100.0

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
OLDEST STRUCTURE	1896	1925	1927	1953	1970	1971	0
MEAN YEAR OF CONSTRUCTION	1942	1954	1952	1957	1970	1972	0

NUMBER AND PERCENTAGE OF MEDIUM MIDDLE SCHOOLS IN CITY/SPECIAL SYSTEMS
HAVING SPECIFIED NUMBERS OF ADDITIONAL AND TEMPORARY STRUCTURES

	ADDITIONS	TEMPORARIES
0	14 56.0	22 88.0
1	8 32.0	2 8.0
2	1 4.0	1 4.0
3	2 8.0	0 0.0
TOTAL	25 100.0	25 100.0

NUMBER AND PERCENTAGE OF BUILDINGS OF MEDIUM MIDDLE SCHOOLS IN CITY/SPECIAL SYSTEMS UTILIZING BASEMENTS FOR INSTRUCTION OR OTHER PROGRAMS INVOLVING STUDENTS

ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
5 20.0	1 12.5	1 16.7	0 0.0	0 0.0	0 0.0	0 0.0

SCHOOLS USING BASEMENT OF SOME STRUCTURE FOR INSTRUCTION: 5 20.0%

NUMBER AND PERCENTAGE OF BUILDINGS OF MEDIUM MIDDLE SCHOOLS IN CITY/SPECIAL SYSTEMS HAVING SPECIFIED NUMBERS OF STORIES (EXCLUDING BASEMENT)

NUMBER OF STORIES	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
1 STORY	11 44.0	7 87.5	3 50.0	2 100.0	2 100.0	2 100.0	0 0.0
2 STORIES	7 28.0	0 0.0	2 33.3	0 0.0	0 0.0	0 0.0	0 0.0
3 STORIES	7 28.0	1 12.5	1 16.7	0 0.0	0 0.0	0 0.0	0 0.0
4 STORIES	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
TOTAL	25 100.0	8 100.0	6 100.0	2 100.0	2 100.0	2 100.0	0 100.0

TWO STORIES OR MORE BUILT BEFORE 1920

4 16.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
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ALL WOOD STRUCTURES OF MORE THAN ONE STORY

0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
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NUMBER AND PERCENTAGE OF BUILDINGS OF MEDIUM MIDDLE SCHOOLS IN CITY/SPECIAL SYSTEMS USING SELECTED EXTERIOR CONSTRUCTION MATERIALS

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
BRICK	20 80.0	8 100.0	5 83.3	2 100.0	0 0.0	0 0.0	0 0.0
WOOD	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
METAL	0 0.0	0 0.0	0 0.0	0 0.0	2 100.0	2 100.0	0 0.0
STONE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
CONCRETE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
OTHER	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, METAL	2 8.0	0 0.0	1 16.7	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, STONE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, CONCRETE	1 4.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, OTHER	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD, METAL	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD, CONCRETE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, METAL, CONCRETE	2 8.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, STONE, CONCRETE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD, METAL, CONCRETE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
ALL OTHER COMBINATIONS	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
NO RESPONSE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
TOTAL	25 100.0	8 100.0	6 100.0	2 100.0	2 100.0	2 100.0	0 100.0

NUMBER AND PERCENTAGE OF BUILDINGS OF MEDIUM MIDDLE SCHOOLS IN CITY/SPECIAL SYSTEMS
USING SPECIFIED TYPES OF HEATING, COOLING, AND LIGHTING EQUIPMENT

HEATING EQUIPMENT

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
JUST CENTRAL	22 88.0	6 75.0	6 100.0	2 100.0	1 50.0	0 0.0	0 0.0
JUST SPACE	3 12.0	1 12.5	0 0.0	0 0.0	1 50.0	2 100.0	0 0.0
CENTRAL & SPACE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
NO RESPONSE	0 0.0	1 12.5	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
TOTAL	25 100.0	8 100.0	6 100.0	2 100.0	2 100.0	2 100.0	0 100.0

COOLING EQUIPMENT

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
JUST CENTRAL	7 28.0	2 25.0	1 16.7	0 0.0	1 50.0	0 0.0	0 0.0
JUST WINDOW UNIT	2 8.0	1 12.5	0 0.0	0 0.0	1 50.0	2 100.0	0 0.0
CENTRAL & WINDOW	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
NO MECHANICAL	16 64.0	5 62.5	5 83.3	2 100.0	0 0.0	0 0.0	0 0.0
TOTAL	25 100.0	8 100.0	6 100.0	2 100.0	2 100.0	2 100.0	0 100.0

WINDOW UNIT COOLING

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
ALL ROOMS	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
SELECTED ROOMS	2 100.0	1 100.0	0 0.0	0 0.0	1 100.0	2 100.0	0 0.0
NO RESPONSE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
TOTAL	2 100.0	1 100.0	0 100.0	0 100.0	1 100.0	2 100.0	0 100.0

LIGHTING EQUIPMENT

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
INCANDESCENT	6 24.0	3 37.5	1 16.7	1 50.0	0 0.0	0 0.0	0 0.0
FLUORESCENT	17 68.0	4 50.0	4 66.7	1 50.0	2 100.0	2 100.0	0 0.0
BOTH	2 8.0	0 0.0	1 16.7	0 0.0	0 0.0	0 0.0	0 0.0
OTHER	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
NO RESPONSE	0 0.0	1 12.5	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
TOTAL	25 100.0	8 100.0	6 100.0	2 100.0	2 100.0	2 100.0	0 100.0

NUMBER AND PERCENTAGE OF MEDIUM MIDDLE SCHOOLS IN CITY/SPECIAL SYSTEMS
USING SPECIFIED SOURCES OF WATER SUPPLY

	NUMBER	PERCENTAGE	
WATER UTILITY	25	100.0	*****
PUMP ON PROPERTY	0	0.0	
OTHER (WELLS, ETC.)	0	0.0	
NO RESPONSE	0	0.0	
TOTAL	25	100.0	-----

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

NUMBER AND PERCENTAGE OF PRINCIPALS OF MEDIUM MIDDLE SCHOOLS IN CITY/SPECIAL SYSTEMS
EXPRESSING SPECIFIED FACILITY NEEDS

	NUMBER	PERCENTAGE	
MAINTENANCE	10	40.0	*****
CONSTRUCTION	12	48.0	*****
BOTH	3	12.0	*****
NEITHER (INCLUDING NO RESPONSE)	0	0.0	
TOTAL	25	100.0	-----

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

PLANT PROFILES: MEDIUM MIDDLE SCHOOLS IN CITY/SPECIAL SYSTEMS

CRITERION	ADEQUATE		SUBSTANDARD	
	NUMBER	PERCENTAGE	NUMBER	PERCENTAGE
1. ENROLLMENT/CAPACITY RATIO <= 1	19	79.2	5	20.8
2. MEETS NATIONAL SCHOOL SIZE STANDARDS	25	100.0	0	0.0
3. MEETS NATIONAL SITE SIZE STANDARDS	5	20.8	19	79.2
4. ORIGINAL BUILDING 30 YRS OLD OR LESS	13	52.0	12	48.0
5. NO TEMPORARY STRUCTURES	22	88.0	3	12.0
6. NO BASEMENT USED FOR INSTRUCTION	20	80.0	5	20.0
7. NO BUILDING OF WOOD EXCLUSIVELY	25	100.0	0	0.0
8. CENTRAL HEATING IN ORIGINAL BUILDING	22	88.0	3	12.0
9. CENTRAL AIR OR ALL WINDOW UNITS	7	28.0	16	64.0
10. COMPLETE FLUORESCENT LIGHTING	18	72.0	5	20.0
11. NO WATER UTILITY	25	100.0	0	0.0
12. MEETS 7 OF 11 OF ABOVE CRITERIA	23	92.0	1	4.0



DATA DISPLAY 4.18

LARGE MIDDLE SCHOOLS IN CITY/SPECIAL SYSTEMS

29 RESPONDENTS

NUMBER AND PERCENTAGE OF LARGE MIDDLE SCHOOLS IN CITY/SPECIAL SYSTEMS
USING SPECIFIED PROPORTIONS OF SCHOOL PLANT CAPACITY

ENRGLLMENT/CAPACITY RATIO	NUMBER	PERCENTAGE	
ABOVE 0.0- 0.5	0	0.0	
ABOVE 0.5- 0.8	9	31.0	*****
ABOVE 0.8- 1.0	16	55.2	*****
ABOVE 1.0- 1.5	4	13.8	*****
ABOVE 1.5- 2.0	0	0.0	
ABOVE 2.0-13.0	0	0.0	
TOTAL	29	100.0	-----

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

SCHOOLS THAT EXCEED CAPACITY: 4 13.8%

NUMBER AND PERCENTAGE OF LARGE MIDDLE SCHOOLS IN CITY/SPECIAL SYSTEMS
HAVING SITES OF SPECIFIED SIZES (IN ACRES)

ACRES	NUMBER	PERCENTAGE	
0- LESS THAN 1	0	0.0	
1- LESS THAN 5	5	17.9	*****
5- LESS THAN 10	5	17.9	*****
10- LESS THAN 20	8	28.6	*****
20- LESS THAN 30	6	21.4	*****
30- LESS THAN 50	3	10.7	*****
50- LESS THAN 100	1	3.6	**
TOTAL	28	100.0	-----

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

MEDIAN SCHOOL SITE SIZE IS 12 ACRES

NUMBER AND PERCENTAGE OF LARGE MIDDLE SCHOOLS IN CITY/SPECIAL SYSTEMS
MEETING SITE SIZE REQUIREMENTS: 3 10.7%

NUMBER AND PERCENTAGE OF BUILDINGS OF LARGE MIDDLE SCHOOLS IN CITY/SPECIAL SYSTEMS OCCURRING AT SPECIFIED STAGES OF THE SCHOOL LIFE CYCLE

AGE (IN YEARS)	ORIGINAL		ADD1		ADD2		ADD3		TEMP1		TEMP2		TEMP3	
60 OR OVER	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
40- LESS THAN 60	4	14.3	2	20.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
20- LESS THAN 40	2	7.1	1	10.0	3	37.5	2	33.3	0	0.0	0	0.0	0	0.0
LESS THAN 20	22	78.6	7	70.0	5	62.5	4	66.7	3	100.0	2	100.0	2	100.0
TOTAL	28	100.0	10	100.0	8	100.0	6	100.0	3	100.0	2	100.0	2	100.0

NUMBER AND PERCENTAGE OF BUILDINGS OF LARGE MIDDLE SCHOOLS IN CITY/SPECIAL SYSTEMS CONSTRUCTED OR ADDED IN SPECIFIED DECADES, 1840-1973

	ORIGINAL		ADD1		ADD2		ADD3		TEMP1		TEMP2		TEMP3	
AFTER 1840 - 1870	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1870 - 1880	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1880 - 1890	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1890 - 1900	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1900 - 1910	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1910 - 1920	1	3.6	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1920 - 1930	3	10.7	1	10.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1930 - 1940	0	0.0	2	20.0	2	25.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1940 - 1950	2	7.1	0	0.0	1	12.5	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1950 - 1960	8	28.6	3	30.0	3	37.5	3	50.0	1	33.3	1	50.0	0	0.0
AFTER 1960 - 1970	9	32.1	3	30.0	2	25.0	3	50.0	2	66.7	1	50.0	1	50.0
AFTER 1970 - 1973	5	17.9	1	10.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
TOTAL	28	100.0	10	100.0	8	100.0	6	100.0	3	100.0	2	100.0	2	100.0

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
OLDEST STRUCTURE	1916	1924	1938	1952	1955	1960	1965
MEAN YEAR OF CONSTRUCTION	1956	1952	1953	1958	1959	1962	1968

NUMBER AND PERCENTAGE OF LARGE MIDDLE SCHOOLS IN CITY/SPECIAL SYSTEMS HAVING SPECIFIED NUMBERS OF ADDITIONAL AND TEMPORARY STRUCTURES

	ADDITIONS		TEMPORARIES	
0	15	51.7	26	89.7
1	9	31.0	1	3.4
2	0	0.0	0	0.0
3	5	17.2	2	6.9
TOTAL	29	100.0	29	100.0

NUMBER AND PERCENTAGE OF BUILDINGS OF LARGE MIDDLE SCHOOLS IN CITY/SPECIAL SYSTEMS
UTILIZING BASEMENTS FOR INSTRUCTION OR OTHER PROGRAMS INVOLVING STUDENTS

ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
8 27.6	3 30.0	3 37.5	2 33.3	1 33.3	0 0.0	0 0.0

SCHOOLS USING BASEMENT OF SOME STRUCTURE FOR INSTRUCTION: 11 37.9%

NUMBER AND PERCENTAGE OF BUILDINGS OF LARGE MIDDLE SCHOOLS IN CITY/SPECIAL SYSTEMS
HAVING SPECIFIED NUMBERS OF STORIES (EXCLUDING BASEMENT)

NUMBER OF STORIES	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
1 STORY	5 17.2	1 10.0	2 25.0	3 50.0	2 66.7	2 100.0	1 50.0
2 STORIES	11 37.9	7 70.0	1 12.5	2 33.3	0 0.0	0 0.0	0 0.0
3 STORIES	13 44.8	2 20.0	5 62.5	1 16.7	1 33.3	0 0.0	1 50.0
4 STORIES	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
TOTAL	29 100.0	10 100.0	8 100.0	6 100.0	3 100.0	2 100.0	2 100.0

TWO STORIES OR MORE BUILT BEFORE 1920

2 6.9	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
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ALL WOOD STRUCTURES OF MORE THAN ONE STORY

0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
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NUMBER AND PERCENTAGE OF BUILDINGS OF LARGE MIDDLE SCHOOLS IN CITY/SPECIAL SYSTEMS
USING SELECTED EXTERIOR CONSTRUCTION MATERIALS

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
BRICK	17 58.6	7 70.0	4 50.0	6 100.0	1 33.3	1 50.0	1 50.0
WCCC	0 0.0	0 0.0	0 0.0	0 0.0	2 66.7	1 50.0	1 50.0
METAL	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
STONE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
CONCRETE	1 3.4	2 20.0	1 12.5	0 0.0	0 0.0	0 0.0	0 0.0
OTHER	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD	1 3.4	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, METAL	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, STONE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, CONCRETE	6 20.7	1 10.0	1 12.5	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, OTHER	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD, METAL	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD, CONCRETE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, METAL, CONCRETE	3 10.3	0 0.0	2 25.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, STONE, CONCRETE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD, METAL, CONCRETE	1 3.4	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
ALL OTHER COMBINATIONS	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
NO RESPONSE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
TOTAL	29 100.0	10 100.0	8 100.0	6 100.0	3 100.0	2 100.0	2 100.0

NUMBER AND PERCENTAGE OF BUILDINGS OF LARGE MIDDLE SCHOOLS IN CITY/SPECIAL SYSTEMS
USING SPECIFIED TYPES OF HEATING, COOLING, AND LIGHTING EQUIPMENT

HEATING EQUIPMENT

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
JUST CENTRAL	27 93.1	9 90.0	8 100.0	6 100.0	2 66.7	1 50.0	1 50.0
JUST SPACE	1 3.4	1 10.0	0 0.0	0 0.0	1 33.3	1 50.0	1 50.0
CENTRAL & SPACE	1 3.4	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
NO RESPONSE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
TOTAL	29 100.0	10 100.0	8 100.0	6 100.0	3 100.0	2 100.0	2 100.0

COOLING EQUIPMENT

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
JUST CENTRAL	13 44.8	2 20.0	2 25.0	0 0.0	0 0.0	0 0.0	2 100.0
JUST WINDOW UNIT	3 10.3	2 20.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
CENTRAL & WINDOW	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
NO MECHANICAL	13 44.8	6 60.0	6 75.0	6 100.0	3 100.0	2 100.0	0 0.0
TOTAL	29 100.0	10 100.0	8 100.0	6 100.0	3 100.0	2 100.0	2 100.0

WINDOW UNIT COOLING

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
ALL ROOMS	2 66.7	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
SELECTED ROOMS	0 0.0	1 50.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
NO RESPONSE	1 33.3	1 50.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
TOTAL	3 100.0	2 100.0	0 100.0	0 100.0	0 100.0	0 100.0	0 100.0

LIGHTING EQUIPMENT

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
INCANDESCENT	2 6.9	2 20.0	2 25.0	1 16.7	0 0.0	0 0.0	0 0.0
FLUORESCENT	26 89.7	7 70.0	5 62.5	4 66.7	3 100.0	2 100.0	2 100.0
BOTH	1 3.4	1 10.0	1 12.5	1 16.7	0 0.0	0 0.0	0 0.0
OTHER	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
NO RESPONSE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
TOTAL	29 100.0	10 100.0	8 100.0	6 100.0	3 100.0	2 100.0	2 100.0

255

NUMBER AND PERCENTAGE OF LARGE MIDDLE SCHOOLS IN CITY/SPECIAL SYSTEMS
USING SPECIFIED SOURCES OF WATER SUPPLY

	NUMBER	PERCENTAGE	
WATER UTILITY	29	100.0	*****
PUMP ON PROPERTY	0	0.0	
CTHER (WELLS, ETC.)	0	0.0	
NO RESPONSE	0	0.0	
TOTAL	29	100.0	-----

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

NUMBER AND PERCENTAGE OF PRINCIPALS OF LARGE MIDDLE SCHOOLS IN CITY/SPECIAL SYSTEMS
EXPRESSING SPECIFIED FACILITY NEEDS

	NUMBER	PERCENTAGE	
MAINTENANCE	13	44.8	*****
CGNSTRUCTION	11	37.9	*****
BOTH	0	0.0	
NEITHER (INCLUDING NO RESPONSE)	5	17.2	*****
TOTAL	29	100.0	-----

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

PLANT PROFILES: LARGE MIDDLE SCHOOLS IN CITY/SPECIAL SYSTEMS

CRITERION	ADEQUATE		SUBSTANDARD	
	NUMBER	PERCENTAGE	NUMBER	PERCENTAGE
1. ENROLLMENT/CAPACITY RATIO ≤ 1	25	86.2	4	13.8
2. MEETS NATIONAL SCHOOL SIZE STANDARDS	2	6.9	27	93.1
3. MEETS NATIONAL SITE SIZE STANDARDS	3	10.7	25	89.3
4. ORIGINAL BUILDING 30 YRS OLD OR LESS	23	82.1	5	17.9
5. NO TEMPORARY STRUCTURES	26	89.7	3	10.3
6. NO BASEMENT USED FOR INSTRUCTION	18	62.1	11	37.9
7. NO BUILDING OF WOOD EXCLUSIVELY	27	93.1	2	6.9
8. CENTRAL HEATING IN ORIGINAL BUILDING	28	96.6	1	3.4
9. CENTRAL AIR OR ALL WINDOW UNITS	16	55.2	10	34.5
10. COMPLETE FLUORESCENT LIGHTING	25	86.2	2	6.9
11. USE OF WATER UTILITY	29	100.0	0	0.0
12. MEETS 7 OF 11 OF ABOVE CRITERIA	24	82.8	2	6.9

DATA DISPLAY 4.19

SMALL SECONDARY SCHOOLS IN CITY/SPECIAL SYSTEMS

0 RESPONDENTS

MEDIUM SECONDARY SCHOOLS IN CITY/SPECIAL SYSTEMS

10 RESPONDENTS

NUMBER AND PERCENTAGE OF MEDIUM SECONDARY SCHOOLS IN CITY/SPECIAL SYSTEMS USING SPECIFIED PROPORTIONS OF SCHOOL PLANT CAPACITY

ENROLLMENT/CAPACITY RATIO	NUMBER	PERCENTAGE	
ABOVE 0.0- 0.5	1	10.0	*****
ABOVE 0.5- 0.8	2	20.0	*****
ABOVE 0.8- 1.0	4	40.0	*****
ABOVE 1.0- 1.5	3	30.0	*****
ABOVE 1.5- 2.0	0	0.0	
ABOVE 2.0-13.0	0	0.0	
TOTAL	10	100.0	-----

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

SCHOOLS THAT EXCEED CAPACITY: 3 30.0%

NUMBER AND PERCENTAGE OF MEDIUM SECONDARY SCHOOLS IN CITY/SPECIAL SYSTEMS HAVING SITES OF SPECIFIED SIZES (IN ACRES)

ACRES	NUMBER	PERCENTAGE	
0- LESS THAN 1	0	0.0	
1- LESS THAN 5	1	11.1	*****
5- LESS THAN 10	1	11.1	*****
10- LESS THAN 20	6	66.7	*****
20- LESS THAN 30	1	11.1	*****
30- LESS THAN 50	0	0.0	
50- LESS THAN 100	0	0.0	
TOTAL	9	100.0	-----

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

MEDIAN SCHOOL SITE SIZE IS 15 ACRES

NUMBER AND PERCENTAGE OF MEDIUM SECONDARY SCHOOLS IN CITY/SPECIAL SYSTEMS MEETING SITE SIZE REQUIREMENTS: 0 0.0%

NUMBER AND PERCENTAGE OF BUILDINGS OF MEDIUM SECONDARY SCHOOLS IN CITY/SPECIAL SYSTEMS OCCURRING AT SPECIFIED STAGES OF THE SCHOOL LIFE CYCLE

AGE (IN YEARS)	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
60 OR OVER	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
40- LESS THAN 60	2 20.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
20- LESS THAN 40	3 30.0	2 33.3	2 40.0	0 0.0	0 0.0	0 0.0	0 0.0
LESS THAN 20	5 50.0	4 66.7	3 60.0	0 0.0	1 100.0	0 0.0	0 0.0
TOTAL	10 100.0	6 100.0	5 100.0	0 100.0	1 100.0	0 100.0	0 100.0

NUMBER AND PERCENTAGE OF BUILDINGS OF MEDIUM SECONDARY SCHOOLS IN CITY/SPECIAL SYSTEMS CONSTRUCTED OR ADDED IN SPECIFIED DECADES, 1840-1973

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
AFTER 1840 - 1870	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1870 - 1880	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1880 - 1890	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1890 - 1900	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1900 - 1910	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1910 - 1920	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1920 - 1930	1 10.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1930 - 1940	2 20.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1940 - 1950	1 10.0	1 16.7	1 20.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1950 - 1960	2 20.0	2 33.3	2 40.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1960 - 1970	2 20.0	3 50.0	2 40.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1970 - 1973	2 20.0	0 0.0	0 0.0	0 0.0	1 100.0	0 0.0	0 0.0
TOTAL	10 100.0	6 100.0	5 100.0	0 100.0	1 100.0	0 100.0	0 100.0

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
OLDEST STRUCTURE	1926	1942	1948	0	1972	0	0
MEAN YEAR OF CONSTRUCTION	1953	1957	1956	0	1972	0	0

NUMBER AND PERCENTAGE OF MEDIUM SECONDARY SCHOOLS IN CITY/SPECIAL SYSTEMS HAVING SPECIFIED NUMBERS OF ADDITIONAL AND TEMPORARY STRUCTURES

	ADDITIONS	TEMPORARIES
0	3 30.0	9 90.0
1	3 30.0	1 10.0
2	4 40.0	0 0.0
3	0 0.0	0 0.0
TOTAL	10 100.0	10 100.0

NUMBER AND PERCENTAGE OF BUILDINGS OF MEDIUM SECONDARY SCHOOLS IN CITY/SPECIAL SYSTEMS
UTILIZING BASEMENTS FOR INSTRUCTION OR OTHER PROGRAMS INVOLVING STUDENTS

ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
2 20.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0

SCHOOLS USING BASEMENT OF SOME STRUCTURE FOR INSTRUCTION: 2 20.0%

NUMBER AND PERCENTAGE OF BUILDINGS OF MEDIUM SECONDARY SCHOOLS IN CITY/SPECIAL SYSTEMS
HAVING SPECIFIED NUMBERS OF STORIES (EXCLUDING BASEMENT)

NUMBER OF STORIES	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
1 STORY	5 50.0	3 50.0	3 60.0	0 0.0	1 100.0	0 0.0	0 0.0
2 STORIES	3 30.0	3 50.0	2 40.0	0 0.0	0 0.0	0 0.0	0 0.0
3 STORIES	2 20.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
4 STORIES	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
TOTAL	10 100.0	6 100.0	5 100.0	0 100.0	1 100.0	0 100.0	0 100.0

TWO STORIES OR MORE BUILT BEFORE 1920

0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
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ALL WOOD STRUCTURES OF MORE THAN ONE STORY

0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
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NUMBER AND PERCENTAGE OF BUILDINGS OF MEDIUM SECONDARY SCHOOLS IN CITY/SPECIAL SYSTEMS
USING SELECTED EXTERIOR CONSTRUCTION MATERIALS

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
BRICK	7 70.0	3 50.0	2 40.0	0 0.0	0 0.0	0 0.0	0 0.0
WOOD	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
METAL	1 10.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
STONE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
CONCRETE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
OTHER	0 0.0	1 16.7	1 20.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, METAL	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, STONE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, CONCRETE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, OTHER	1 10.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD, METAL	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD, CONCRETE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, METAL, CONCRETE	1 10.0	1 16.7	1 20.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, STONE, CONCRETE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD, METAL, CONCRETE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
ALL OTHER COMBINATIONS	0 0.0	0 0.0	0 0.0	0 0.0	1 100.0	0 0.0	0 0.0
NO RESPONSE	0 0.0	1 16.7	1 20.0	0 0.0	0 0.0	0 0.0	0 0.0
TOTAL	10 100.0	6 100.0	5 100.0	0 100.0	1 100.0	0 100.0	0 100.0

NUMBER AND PERCENTAGE OF BUILDINGS OF MEDIUM SECONDARY SCHOOLS IN CITY/SPECIAL SYSTEMS
USING SPECIFIED TYPES OF HEATING, COOLING, AND LIGHTING EQUIPMENT

HEATING EQUIPMENT

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
JUST CENTRAL	9 90.0	5 83.3	4 80.0	0 0.0	1 100.0	0 0.0	0 0.0
JUST SPACE	1 10.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
CENTRAL & SPACE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
NO RESPONSE	0 0.0	1 16.7	1 20.0	0 0.0	0 0.0	0 0.0	0 0.0
TOTAL	10 100.0	6 100.0	5 100.0	0 100.0	1 100.0	0 100.0	0 100.0

COOLING EQUIPMENT

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
JUST CENTRAL	4 40.0	0 0.0	0 0.0	0 0.0	1 100.0	0 0.0	0 0.0
JUST WINDOW UNIT	3 30.0	1 16.7	2 40.0	0 0.0	0 0.0	0 0.0	0 0.0
CENTRAL & WINDOW	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
NO MECHANICAL	3 30.0	5 83.3	3 60.0	0 0.0	0 0.0	0 0.0	0 0.0
TOTAL	10 100.0	6 100.0	5 100.0	0 100.0	1 100.0	0 100.0	0 100.0

WINDOW UNIT COOLING

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
ALL ROOMS	1 33.3	1 100.0	1 50.0	0 0.0	0 0.0	0 0.0	0 0.0
SELECTED ROOMS	1 33.3	0 0.0	1 50.0	0 0.0	0 0.0	0 0.0	0 0.0
NO RESPONSE	1 33.3	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
TOTAL	3 100.0	1 100.0	2 100.0	0 100.0	0 100.0	0 100.0	0 100.0

LIGHTING EQUIPMENT

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
INCANDESCENT	3 30.0	3 50.0	1 20.0	0 0.0	0 0.0	0 0.0	0 0.0
FLUORESCENT	7 70.0	2 33.3	3 60.0	0 0.0	1 100.0	0 0.0	0 0.0
BOTH	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
OTHER	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
NO RESPONSE	0 0.0	1 16.7	1 20.0	0 0.0	0 0.0	0 0.0	0 0.0
TOTAL	10 100.0	6 100.0	5 100.0	0 100.0	1 100.0	0 100.0	0 100.0

NUMBER AND PERCENTAGE OF MEDIUM SECONDARY SCHOOLS IN CITY/SPECIAL SYSTEMS
USING SPECIFIED SOURCES OF WATER SUPPLY

	NUMBER	PERCENTAGE	
WATER UTILITY	10	100.0	*****
PUMP ON PROPERTY	0	0.0	
OTHER (WELLS, ETC.)	0	0.0	
NO RESPONSE	0	0.0	
TOTAL	10	100.0	-----

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

NUMBER AND PERCENTAGE OF PRINCIPALS OF MEDIUM SECONDARY SCHOOLS IN CITY/SPECIAL SYSTEMS
EXPRESSING SPECIFIED FACILITY NEEDS

	NUMBER	PERCENTAGE	
MAINTENANCE	1	10.0	*****
CONSTRUCTION	7	70.0	*****
BOTH	0	0.0	
NEITHER (INCLUDING NO RESPONSE)	2	20.0	*****
TOTAL	10	100.0	-----

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

PLANT PROFILES: MEDIUM SECONDARY SCHOOLS IN CITY/SPECIAL SYSTEMS

CRITERION	ADEQUATE		SUBSTANDARD	
	NUMBER	PERCENTAGE	NUMBER	PERCENTAGE
1. ENROLLMENT/CAPACITY RATIO <= 1	7	70.0	3	30.0
2. MEETS NATIONAL SCHOOL SIZE STANDARDS	10	100.0	0	0.0
3. MEETS NATIONAL SITE SIZE STANDARDS	0	0.0	9	100.0
4. ORIGINAL BUILDING 30 YRS OLD OR LESS	7	70.0	3	30.0
5. NO TEMPORARY STRUCTURES	9	90.0	1	10.0
6. NO BASEMENT USED FOR INSTRUCTION	8	80.0	2	20.0
7. NO BUILDING OF WOOD EXCLUSIVELY	10	100.0	0	0.0
8. CENTRAL HEATING IN ORIGINAL BUILDING	9	90.0	1	10.0
9. CENTRAL AIR OR ALL WINDOW UNITS	4	40.0	3	30.0
10. COMPLETE FLUORESCENT LIGHTING	5	50.0	2	20.0
11. USE OF WATER UTILITY	10	100.0	0	0.0
12. MEETS 7 OF 11 OF ABOVE CRITERIA	8	80.0	0	0.0

DATA DISPLAY 4.21

LARGE SECONDARY SCHOOLS IN CITY/SPECIAL SYSTEMS

41 RESPONDENTS

NUMBER AND PERCENTAGE OF LARGE SECONDARY SCHOOLS IN CITY/SPECIAL SYSTEMS
USING SPECIFIED PROPORTIONS OF SCHOOL PLANT CAPACITY

ENROLLMENT/CAPACITY RATIO	NUMBER	PERCENTAGE	
ABOVE 0.0- 0.5	0	0.0	
ABOVE 0.5- 0.8	7	17.9	*****
ABOVE 0.8- 1.0	25	64.1	*****
ABOVE 1.0- 1.5	7	17.9	*****
ABOVE 1.5- 2.0	0	0.0	
ABOVE 2.0-13.0	0	0.0	
TOTAL	39	100.0	-----

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

SCHOOLS THAT EXCEED CAPACITY: 7 17.9%

NUMBER AND PERCENTAGE OF LARGE SECONDARY SCHOOLS IN CITY/SPECIAL SYSTEMS
HAVING SITES OF SPECIFIED SIZES (IN ACRES)

ACRES	NUMBER	PERCENTAGE	
0- LESS THAN 1	0	0.0	
1- LESS THAN 5	0	0.0	
5- LESS THAN 10	6	15.0	*****
10- LESS THAN 20	12	30.0	*****
20- LESS THAN 30	9	22.5	*****
30- LESS THAN 50	10	25.0	*****
50- LESS THAN 100	3	7.5	***
TOTAL	40	100.0	-----

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

MEDIAN SCHOOL SITE SIZE IS 20 ACRES

NUMBER AND PERCENTAGE OF LARGE SECONDARY SCHOOLS IN CITY/SPECIAL SYSTEMS
MEETING SITE SIZE REQUIREMENTS: 5 12.5%

NUMBER AND PERCENTAGE OF BUILDINGS OF LARGE SECONDARY SCHOOLS IN CITY/SPECIAL SYSTEMS OCCURRING AT SPECIFIED STAGES OF THE SCHOOL LIFE CYCLE

AGE (IN YEARS)	ORIGINAL		ADD1		ADD2		ADD3		TEMP1		TEMP2		TEMP3	
60 OR OVER	1	2.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
40- LESS THAN 60	7	17.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
20- LESS THAN 40	11	26.8	6	22.2	1	6.3	1	11.1	1	12.5	1	20.0	0	0.0
LESS THAN 20	22	53.7	21	77.8	15	93.8	8	88.9	7	87.5	4	80.0	2	100.0
TOTAL	41	100.0	27	100.0	16	100.0	9	100.0	8	100.0	5	100.0	2	100.0

NUMBER AND PERCENTAGE OF BUILDINGS OF LARGE SECONDARY SCHOOLS IN CITY/SPECIAL SYSTEMS CONSTRUCTED OR ADDED IN SPECIFIED DECADES, 1840-1973

	ORIGINAL		ADD1		ADD2		ADD3		TEMP1		TEMP2		TEMP3	
AFTER 1840 - 1870	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1870 - 1880	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1880 - 1890	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1890 - 1900	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1900 - 1910	1	2.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1910 - 1920	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1920 - 1930	7	17.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1930 - 1940	3	7.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
AFTER 1940 - 1950	5	12.2	3	11.1	1	6.3	1	11.1	0	0.0	0	0.0	0	0.0
AFTER 1950 - 1960	10	24.4	9	33.3	4	25.0	1	11.1	3	37.5	1	20.0	1	50.0
AFTER 1960 - 1970	10	24.4	12	44.4	9	56.3	6	66.7	2	25.0	3	60.0	1	50.0
AFTER 1970 - 1973	5	12.2	3	11.1	2	12.5	1	11.1	3	37.5	1	20.0	0	0.0
TOTAL	41	100.0	27	100.0	16	100.0	9	100.0	8	100.0	5	100.0	2	100.0

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
OLDEST STRUCTURE	1909	1941	1948	1950	1952	1953	1955
MEAN YEAR OF CONSTRUCTION	1951	1960	1962	1963	1964	1963	1962

NUMBER AND PERCENTAGE OF LARGE SECONDARY SCHOOLS IN CITY/SPECIAL SYSTEMS HAVING SPECIFIED NUMBERS OF ADDITIONAL AND TEMPORARY STRUCTURES

	ADDITIONS		TEMPORARIES	
0	14	34.1	33	80.5
1	11	26.8	3	7.3
2	7	17.1	3	7.3
3	9	22.0	2	4.9
TOTAL	41	100.0	41	100.0

NUMBER AND PERCENTAGE OF BUILDINGS OF LARGE SECONDARY SCHOOLS IN CITY/SPECIAL SYSTEMS
UTILIZING BASEMENTS FOR INSTRUCTION OR OTHER PROGRAMS INVOLVING STUDENTS

ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
9 22.0	2 7.4	1 6.3	1 11.1	0 0.0	0 0.0	0 0.0

SCHOOLS USING BASEMENT OF SOME STRUCTURE FOR INSTRUCTION: 12 29.3%

NUMBER AND PERCENTAGE OF BUILDINGS OF LARGE SECONDARY SCHOOLS IN CITY/SPECIAL SYSTEMS
HAVING SPECIFIED NUMBERS OF STORIES (EXCLUDING BASEMENT)

NUMBER OF STORIES	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
1 STORY	5 12.2	13 43.1	6 37.5	4 44.4	6 75.0	1 20.0	1 50.0
2 STORIES	26 63.4	9 33.3	8 50.0	4 44.4	2 25.0	4 80.0	1 50.0
3 STORIES	9 22.0	5 18.5	2 12.5	1 11.1	0 0.0	0 0.0	0 0.0
4 STORIES	1 2.4	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
TOTAL	41 100.0	27 100.0	16 100.0	9 100.0	8 100.0	5 100.0	2 100.0

TWO STORIES OR MORE BUILT BEFORE 1920

1 2.4	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
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ALL WOOD STRUCTURES OF MORE THAN ONE STORY

0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
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NUMBER AND PERCENTAGE OF BUILDINGS OF LARGE SECONDARY SCHOOLS IN CITY/SPECIAL SYSTEMS
USING SELECTED EXTERIOR CONSTRUCTION MATERIALS

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
BRICK	27 65.9	22 81.5	12 75.0	7 77.8	2 25.0	2 40.0	1 50.0
WCCC	0 0.0	0 0.0	0 0.0	0 0.0	2 25.0	1 20.0	0 0.0
METAL	0 0.0	0 0.0	1 6.3	0 0.0	1 12.5	0 0.0	0 0.0
STONE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
CONCRETE	1 2.4	0 0.0	0 0.0	1 11.1	0 0.0	0 0.0	0 0.0
OTHER	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, METAL	1 2.4	1 3.7	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, STONE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, CONCRETE	7 17.1	2 7.4	3 18.8	1 11.1	1 12.5	1 20.0	1 50.0
BRICK, OTHER	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD, METAL	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD, CONCRETE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, METAL, CONCRETE	4 9.8	1 3.7	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, STONE, CONCRETE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD, METAL, CONCRETE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
ALL OTHER COMBINATIONS	1 2.4	1 3.7	0 0.0	0 0.0	2 25.0	1 20.0	0 0.0
NO RESPONSE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
TOTAL	41 100.0	27 100.0	16 100.0	9 100.0	8 100.0	5 100.0	2 100.0

NUMBER AND PERCENTAGE OF BUILDINGS OF LARGE SECONDARY SCHOOLS IN CITY/SPECIAL SYSTEMS
USING SPECIFIED TYPES OF HEATING, COOLING, AND LIGHTING EQUIPMENT

HEATING EQUIPMENT

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
JUST CENTRAL	33 80.5	20 74.1	15 93.8	7 77.8	3 37.5	3 60.0	2 100.0
JUST SPACE	3 7.3	2 7.4	0 0.0	0 0.0	4 50.0	1 20.0	0 0.0
CENTRAL & SPACE	4 9.8	3 11.1	1 6.3	1 11.1	0 0.0	0 0.0	0 0.0
NO RESPONSE	2.4	2 7.4	0 0.0	1 11.1	1 12.5	1 20.0	0 0.0
TOTAL	41 100.0	27 100.0	16 100.0	9 100.0	8 100.0	5 100.0	2 100.0

COOLING EQUIPMENT

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
JUST CENTRAL	12 29.3	8 29.6	3 18.8	5 55.6	3 37.5	2 40.0	1 50.0
JUST WINDOW UNIT	5 12.2	2 7.4	0 0.0	1 11.1	0 0.0	0 0.0	1 50.0
CENTRAL & WINDOW	2 4.9	1 3.7	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
NO MECHANICAL	22 53.7	16 59.3	13 81.3	3 33.3	5 62.5	3 60.0	0 0.0
TOTAL	41 100.0	27 100.0	16 100.0	9 100.0	8 100.0	5 100.0	2 100.0

WINDOW UNIT COOLING

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
ALL ROOMS	1 14.3	1 33.3	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
SELECTED ROOMS	4 57.1	1 33.3	0 0.0	0 0.0	0 0.0	0 0.0	1 100.0
NO RESPONSE	2 28.6	1 33.3	0 0.0	1 100.0	0 0.0	0 0.0	0 0.0
TOTAL	7 100.0	3 100.0	0 100.0	1 100.0	0 100.0	0 100.0	1 100.0

LIGHTING EQUIPMENT

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
INCANDESCENT	5 12.2	5 18.5	2 12.5	1 11.1	0 0.0	0 0.0	0 0.0
FLUORESCENT	35 85.4	22 81.5	14 87.5	8 88.9	7 87.5	4 80.0	2 100.0
BOTH	1 2.4	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
OTHER	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
NO RESPONSE	0 0.0	0 0.0	0 0.0	0 0.0	1 12.5	1 20.0	0 0.0
TOTAL	41 100.0	27 100.0	16 100.0	9 100.0	8 100.0	5 100.0	2 100.0

NUMBER AND PERCENTAGE OF LARGE SECONDARY SCHOOLS IN CITY/SPECIAL SYSTEMS
USING SPECIFIED SOURCES OF WATER SUPPLY

	NUMBER	PERCENTAGE	
WATER UTILITY	41	100.0	*****
PUMP ON PROPERTY	0	0.0	
OTHER (WELLS, ETC.)	0	0.0	
NO RESPONSE	0	0.0	
TOTAL	41	100.0	-----

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

NUMBER AND PERCENTAGE OF PRINCIPALS OF LARGE SECONDARY SCHOOLS IN CITY/SPECIAL SYSTEMS
EXPRESSING SPECIFIED FACILITY NEEDS

	NUMBER	PERCENTAGE	
MAINTENANCE	21	51.2	*****
CONSTRUCTION	10	24.4	*****
BOTH	2	4.9	**
NEITHER (INCLUDING NO RESPONSE)	8	19.5	*****
TOTAL	41	100.0	-----

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

PLANT PROFILES: LARGE SECONDARY SCHOOLS IN CITY/SPECIAL SYSTEMS

CRITERION	ADEQUATE		SUBSTANDARD	
	NUMBER	PERCENTAGE	NUMBER	PERCENTAGE
1. ENROLLMENT/CAPACITY RATIO <= 1	32	82.1	7	17.9
2. MEETS NATIONAL SCHOOL SIZE STANDARDS	12	29.3	29	70.7
3. MEETS NATIONAL SITE SIZE STANDARDS	5	12.5	35	87.5
4. ORIGINAL BUILDING 30 YRS OLD OR LESS	29	70.7	12	29.3
5. NO TEMPORARY STRUCTURES	33	80.5	8	19.5
6. NO BASEMENT USED FOR INSTRUCTION	29	70.7	12	29.3
7. NO BUILDING OF WOOD EXCLUSIVELY	39	95.1	2	4.9
8. CENTRAL HEATING IN ORIGINAL BUILDING	37	90.2	4	9.8
9. CENTRAL AIR OR ALL WINDOW UNITS	15	36.6	10	24.4
10. COMPLETE FLUORESCENT LIGHTING	35	85.4	4	9.8
11. USE OF WATER UTILITY	41	100.0	0	0.0
ETS 7 OF 11 OF ABOVE CRITERIA	32	78.0	0	0.0

DATA DISPLAY 4.22

SMALL COMBINED SCHOOLS IN CITY/SPECIAL SYSTEMS

2 RESPONDENTS

NUMBER AND PERCENTAGE OF SMALL COMBINED SCHOOLS IN CITY/SPECIAL SYSTEMS
USING SPECIFIED PROPORTIONS OF SCHOOL PLANT CAPACITY

ENROLLMENT/CAPACITY RATIO		NUMBER	PERCENTAGE
ABOVE	0.0- 0.5	0	0.0
ABOVE	0.5- 0.8	0	0.0
ABOVE	0.8- 1.0	2	100.0
ABOVE	1.0- 1.5	0	0.0
ABOVE	1.5- 2.0	0	0.0
ABOVE	2.0-13.0	0	0.0
TOTAL		2	100.0

SCHOOLS THAT EXCEED CAPACITY: 0 0.0%

NUMBER AND PERCENTAGE OF SMALL COMBINED SCHOOLS IN CITY/SPECIAL SYSTEMS
HAVING SITES OF SPECIFIED SIZES (IN ACRES)

ACRES	NUMBER	PERCENTAGE
0- LESS THAN 1	0	0.0
1- LESS THAN 5	1	50.0
5- LESS THAN 10	1	50.0
10- LESS THAN 20	0	0.0
20- LESS THAN 30	0	0.0
30- LESS THAN 50	0	0.0
50- LESS THAN 100	0	0.0
TOTAL	2	100.0

MEDIAN SCHOOL SITE SIZE IS 7 ACRES

NUMBER AND PERCENTAGE OF SMALL COMBINED SCHOOLS IN CITY/SPECIAL SYSTEMS
MEETING SITE SIZE REQUIREMENTS: 0 0.0%

NUMBER AND PERCENTAGE OF BUILDINGS OF SMALL COMBINED SCHOOLS IN CITY/SPECIAL SYSTEMS
OCCURRING AT SPECIFIED STAGES OF THE SCHOOL LIFE CYCLE

AGE (IN YEARS)	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
60 OR OVER	1 50.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
40- LESS THAN 60	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
20- LESS THAN 40	1 50.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
LESS THAN 20	0 0.0	0 0.0	0 0.0	0 0.0	1 100.0	1 100.0	1 100.0
TOTAL	2 100.0	0 100.0	0 100.0	0 100.0	1 100.0	1 100.0	1 100.0

NUMBER AND PERCENTAGE OF BUILDINGS OF SMALL COMBINED SCHOOLS IN CITY/SPECIAL SYSTEMS
CONSTRUCTED OR ADDED IN SPECIFIED DECADES, 1840-1973

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
AFTER 1840 - 1870	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1870 - 1880	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1880 - 1890	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1890 - 1900	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1900 - 1910	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1910 - 1920	1 50.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1920 - 1930	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1930 - 1940	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1940 - 1950	1 50.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1950 - 1960	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1960 - 1970	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1970 - 1973	0 0.0	0 0.0	0 0.0	0 0.0	1 100.0	1 100.0	1 100.0
TOTAL	2 100.0	0 100.0	0 100.0	0 100.0	1 100.0	1 100.0	1 100.0

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
OLDEST STRUCTURE	1912	0	0	0	1971	1971	1971
MEAN YEAR OF CONSTRUCTION	1927	0	0	0	1971	1971	1971

NUMBER AND PERCENTAGE OF SMALL COMBINED SCHOOLS IN CITY/SPECIAL SYSTEMS
HAVING SPECIFIED NUMBERS OF ADDITIONAL AND TEMPORARY STRUCTURES

	ADDITIONS	TEMPORARIES
0	2 100.0	1 50.0
1	0 0.0	0 0.0
2	0 0.0	0 0.0
3	0 0.0	1 50.0
TOTAL	2 100.0	2 100.0

NUMBER AND PERCENTAGE OF BUILDINGS OF SMALL COMBINED SCHOOLS IN CITY/SPECIAL SYSTEMS
UTILIZING BASEMENTS FOR INSTRUCTION OR OTHER PROGRAMS INVOLVING STUDENTS

ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0

SCHOOLS USING BASEMENT OF SOME STRUCTURE FOR INSTRUCTION: 0 0.0%

NUMBER AND PERCENTAGE OF BUILDINGS OF SMALL COMBINED SCHOOLS IN CITY/SPECIAL SYSTEMS
HAVING SPECIFIED NUMBERS OF STORIES (EXCLUDING BASEMENT)

NUMBER OF STORIES	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
1 STORY	1 50.0	0 0.0	0 0.0	0 0.0	1 100.0	1 100.0	1 100.0
2 STORIES	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
3 STORIES	1 50.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
4 STORIES	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
TOTAL	2 100.0	0 100.0	0 100.0	0 100.0	1 100.0	1 100.0	1 100.0

TWO STORIES OR MORE BUILT BEFORE 1920

1 50.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
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ALL WOOD STRUCTURES OF MORE THAN ONE STORY

0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
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NUMBER AND PERCENTAGE OF BUILDINGS OF SMALL COMBINED SCHOOLS IN CITY/SPECIAL SYSTEMS
USING SELECTED EXTERIOR CONSTRUCTION MATERIALS

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
BRICK	1 50.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
WOOD	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
METAL	0 0.0	0 0.0	0 0.0	0 0.0	1 100.0	1 100.0	1 100.0
STONE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
CONCRETE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
OTHER	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, METAL	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, STONE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, CONCRETE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, OTHER	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD, METAL	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD, CONCRETE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, METAL, CONCRETE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, STONE, CONCRETE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD, METAL, CONCRETE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
ALL OTHER COMBINATIONS	1 50.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
NO RESPONSE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
TOTAL	2 100.0	0 100.0	0 100.0	0 100.0	1 100.0	1 100.0	1 100.0

NUMBER AND PERCENTAGE OF BUILDINGS OF SMALL COMBINED SCHOOLS IN CITY/SPECIAL SYSTEMS
USING SPECIFIED TYPES OF HEATING, COOLING, AND LIGHTING EQUIPMENT

HEATING EQUIPMENT

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
JUST CENTRAL	1 50.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
JUST SPACE	1 50.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
CENTRAL & SPACE	0 0.0	0 0.0	0 0.0	0 0.0	1 100.0	1 100.0	1 100.0
NO RESPONSE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
TOTAL	2 100.0	0 100.0	0 100.0	0 100.0	1 100.0	1 100.0	1 100.0

COOLING EQUIPMENT

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
JUST CENTRAL	0 0.0	0 0.0	0 0.0	0 0.0	1 100.0	1 100.0	1 100.0
JUST WINDOW UNIT	1 50.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
CENTRAL & WINDOW	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
NO MECHANICAL	1 50.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
TOTAL	2 100.0	0 100.0	0 100.0	0 100.0	1 100.0	1 100.0	1 100.0

WINDOW UNIT COOLING

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
ALL ROOMS	1 100.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
SELECTED ROOMS	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
NO RESPONSE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
TOTAL	1 100.0	0 100.0	0 100.0	0 100.0	0 100.0	0 100.0	0 100.0

LIGHTING EQUIPMENT

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
INCANDESCENT	1 50.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
FLUORESCENT	1 50.0	0 0.0	0 0.0	0 0.0	1 100.0	1 100.0	1 100.0
BOTH	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
OTHER	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
NO RESPONSE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
TOTAL	2 100.0	0 100.0	0 100.0	0 100.0	1 100.0	1 100.0	1 100.0



NUMBER AND PERCENTAGE OF SMALL COMBINED SCHOOLS IN CITY/SPECIAL SYSTEMS
USING SPECIFIED SOURCES OF WATER SUPPLY

	NUMBER	PERCENTAGE	
WATER UTILITY	2	100.0	*****
PUMP ON PROPERTY	0	0.0	
OTHER (WELLS, ETC.)	0	0.0	
NO RESPONSE	0	0.0	
TOTAL	2	100.0	-----

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

NUMBER AND PERCENTAGE OF PRINCIPALS OF SMALL COMBINED SCHOOLS IN CITY/SPECIAL SYSTEMS
EXPRESSING SPECIFIED FACILITY NEEDS

	NUMBER	PERCENTAGE	
MAINTENANCE	1	50.0	*****
CONSTRUCTION	1	50.0	*****
BOTH	0	0.0	
NEITHER (INCLUDING NO RESPONSE)	0	0.0	
TOTAL	2	100.0	-----

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

PLANT PROFILES: SMALL COMBINED SCHOOLS IN CITY/SPECIAL SYSTEMS

CRITERION	ADEQUATE		SUBSTANDARD	
	NUMBER	PERCENTAGE	NUMBER	PERCENTAGE
1. ENROLLMENT/CAPACITY RATIO <= 1	2	100.0	0	0.0
2. MEETS NATIONAL SCHOOL SIZE STANDARDS	1	50.0	1	50.0
3. MEETS NATIONAL SITE SIZE STANDARDS	0	0.0	2	100.0
4. ORIGINAL BUILDING 30 YRS OLD OR LESS	0	0.0	2	100.0
5. NO TEMPORARY STRUCTURES	1	50.0	1	50.0
6. NO BASEMENT USED FOR INSTRUCTION	2	100.0	0	0.0
7. NO BUILDING OF WOOD EXCLUSIVELY	2	100.0	0	0.0
8. CENTRAL HEATING IN ORIGINAL BUILDING	1	50.0	1	50.0
9. CENTRAL AIR OR ALL WINDOW UNITS	1	50.0	1	50.0
10. COMPLETE FLUORESCENT LIGHTING	1	50.0	1	50.0
11. USE OF WATER UTILITY	2	100.0	0	0.0
12. MEETS 7 OF 11 OF ABOVE CRITERIA	1	50.0	0	0.0

DATA DISPLAY 4.23

MEDIUM COMBINED SCHOOLS IN CITY/SPECIAL SYSTEMS

7 RESPONDENTS --

NUMBER AND PERCENTAGE OF MEDIUM COMBINED SCHOOLS IN CITY/SPECIAL SYSTEMS
USING SPECIFIED PROPORTIONS OF SCHOOL PLANT CAPACITY

ENROLLMENT/CAPACITY RATIO	NUMBER	PERCENTAGE	
ABOVE 0.0- 0.5	0	0.0	
ABOVE 0.5- 0.8	0	0.0	
ABOVE 0.8- 1.0	4	57.1	*****
ABOVE 1.0- 1.5	3	42.9	*****
ABOVE 1.5- 2.0	0	0.0	
ABOVE 2.0-13.0	0	0.0	
TOTAL	7	100.0	

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

SCHOOLS THAT EXCEED CAPACITY: 3 42.9%

NUMBER AND PERCENTAGE OF MEDIUM COMBINED SCHOOLS IN CITY/SPECIAL SYSTEMS
HAVING SITES OF SPECIFIED SIZES (IN ACRES)

ACRES	NUMBER	PERCENTAGE	
0- LESS THAN 1	0	0.0	
1- LESS THAN 5	1	16.7	*****
5- LESS THAN 10	0	0.0	
10- LESS THAN 20	4	66.7	*****
20- LESS THAN 30	0	0.0	
30- LESS THAN 50	1	16.7	*****
50- LESS THAN 100	0	0.0	
TOTAL	6	100.0	

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

MEDIAN SCHOOL SITE SIZE IS 15 ACRES

NUMBER AND PERCENTAGE OF MEDIUM COMBINED SCHOOLS IN CITY/SPECIAL SYSTEMS
MEETING SITE SIZE REQUIREMENTS: 0 0.0%

NUMBER AND PERCENTAGE OF BUILDINGS OF MEDIUM COMBINED SCHOOLS IN CITY/SPECIAL SYSTEMS OCCURRING AT SPECIFIED STAGES OF THE SCHOOL LIFE CYCLE

AGE (IN YEARS)	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
60 OR OVER	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
40- LESS THAN 60	5 71.4	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
20- LESS THAN 40	2 28.6	2 40.0	1 25.0	1 50.0	0 0.0	0 0.0	0 0.0
LESS THAN 20	0 0.0	3 60.0	3 75.0	1 50.0	1 100.0	0 0.0	0 0.0
TOTAL	7 100.0	5 100.0	4 100.0	2 100.0	1 100.0	0 100.0	0 100.0

NUMBER AND PERCENTAGE OF BUILDINGS OF MEDIUM COMBINED SCHOOLS IN CITY/SPECIAL SYSTEMS CONSTRUCTED OR ADDED IN SPECIFIED DECADES, 1840-1973

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
AFTER 1840 - 1870	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1870 - 1880	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1880 - 1890	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1890 - 1900	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1900 - 1910	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1910 - 1920	2 28.6	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1920 - 1930	3 42.9	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1930 - 1940	2 28.6	1 20.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1940 - 1950	0 0.0	1 20.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1950 - 1960	0 0.0	3 60.0	2 50.0	1 50.0	0 0.0	0 0.0	0 0.0
AFTER 1960 - 1970	0 0.0	0 0.0	2 50.0	1 50.0	0 0.0	0 0.0	0 0.0
AFTER 1970 - 1973	0 0.0	0 0.0	0 0.0	0 0.0	1 100.0	0 0.0	0 0.0
TOTAL	7 100.0	5 100.0	4 100.0	2 100.0	1 100.0	0 100.0	0 100.0

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
OLDEST STRUCTURE	1914	1938	1951	1953	1971	0	0
MEAN YEAR OF CONSTRUCTION	1927	1951	1960	1961	1971	0	0

NUMBER AND PERCENTAGE OF MEDIUM COMBINED SCHOOLS IN CITY/SPECIAL SYSTEMS HAVING SPECIFIED NUMBERS OF ADDITIONAL AND TEMPORARY STRUCTURES

	ADDITIONS	TEMPORARIES
0	2 28.6	6 85.7
1	1 14.3	1 14.3
2	2 28.6	0 0.0
3	2 28.6	0 0.0
TOTAL	7 100.0	7 100.0

NUMBER AND PERCENTAGE OF BUILDINGS OF MEDIUM COMBINED SCHOOLS IN CITY/SPECIAL SYSTEMS
UTILIZING BASEMENTS FOR INSTRUCTION OR OTHER PROGRAMS INVOLVING STUDENTS

ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
1 14.3	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0

SCHOOLS USING BASEMENT OF SOME STRUCTURE FOR INSTRUCTION: 1 14.3%

NUMBER AND PERCENTAGE OF BUILDINGS OF MEDIUM COMBINED SCHOOLS IN CITY/SPECIAL SYSTEMS
HAVING SPECIFIED NUMBERS OF STORIES (EXCLUDING BASEMENT)

NUMBER OF STORIES	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
1 STORY	4 57.1	3 60.0	4 100.0	2 100.0	1 100.0	0 0.0	0 0.0
2 STORIES	3 42.9	2 40.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
3 STORIES	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
4 STORIES	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
TOTAL	7 100.0	5 100.0	4 100.0	2 100.0	1 100.0	0 100.0	0 100.0

TWO STORIES OR MORE BUILT BEFORE 1920

1 14.3	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
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ALL WOOD STRUCTURES OF MORE THAN ONE STORY

0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
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NUMBER AND PERCENTAGE OF BUILDINGS OF MEDIUM COMBINED SCHOOLS IN CITY/SPECIAL SYSTEMS
USING SELECTED EXTERIOR CONSTRUCTION MATERIALS

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
BRICK	6 85.7	4 80.0	3 75.0	1 50.0	0 0.0	0 0.0	0 0.0
WOOD	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
METAL	0 0.0	0 0.0	0 0.0	0 0.0	1 100.0	0 0.0	0 0.0
STONE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
CONCRETE	0 0.0	1 20.0	1 25.0	1 50.0	0 0.0	0 0.0	0 0.0
OTHER	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, METAL	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, STONE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, CONCRETE	1 14.3	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, OTHER	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD, METAL	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD, CONCRETE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, METAL, CONCRETE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, STONE, CONCRETE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD, METAL, CONCRETE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
ALL OTHER COMBINATIONS	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
NO RESPONSE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
TOTAL	7 100.0	5 100.0	4 100.0	2 100.0	1 100.0	0 100.0	0 100.0

275

NUMBER AND PERCENTAGE OF BUILDINGS OF MEDIUM COMBINED SCHOOLS IN CITY/SPECIAL SYSTEMS
USING SPECIFIED TYPES OF HEATING, COOLING, AND LIGHTING EQUIPMENT

HEATING EQUIPMENT

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
JUST CENTRAL	6 85.7	2 40.0	2 50.0	0 0.0	0 0.0	0 0.0	0 0.0
JUST SPACE	1 14.3	2 40.0	1 25.0	1 50.0	1 100.0	0 0.0	0 0.0
CENTRAL & SPACE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
NO RESPONSE	0 0.0	1 20.0	1 25.0	1 50.0	0 0.0	0 0.0	0 0.0
TOTAL	7 100.0	5 100.0	4 100.0	2 100.0	1 100.0	0 100.0	0 100.0

COOLING EQUIPMENT

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
JUST CENTRAL	0 0.0	1 20.0	1 25.0	0 0.0	0 0.0	0 0.0	0 0.0
JUST WINDOW UNIT	4 57.1	1 20.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
CENTRAL & WINDOW	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
NO MECHANICAL	3 42.9	3 60.0	3 75.0	2 100.0	1 100.0	0 0.0	0 0.0
TOTAL	7 100.0	5 100.0	4 100.0	2 100.0	1 100.0	0 100.0	0 100.0

WINDOW UNIT COOLING

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
ALL ROOMS	1 25.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
SELECTED ROOMS	2 50.0	1 100.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
NO RESPONSE	1 25.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
TOTAL	4 100.0	1 100.0	0 100.0	0 100.0	0 100.0	0 100.0	0 100.0

LIGHTING EQUIPMENT

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
INCANDESCENT	4 57.1	4 80.0	3 75.0	2 100.0	0 0.0	0 0.0	0 0.0
FLUORESCENT	3 42.9	1 20.0	1 25.0	0 0.0	1 100.0	0 0.0	0 0.0
ACHT	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
OTHER	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
NO RESPONSE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
TOTAL	7 100.0	5 100.0	4 100.0	2 100.0	1 100.0	0 100.0	0 100.0

NUMBER AND PERCENTAGE OF MEDIUM COMBINED SCHOOLS IN CITY/SPECIAL SYSTEMS
USING SPECIFIED SOURCES OF WATER SUPPLY

	NUMBER	PERCENTAGE	
WATER UTILITY	7	100.0	*****
PUMP ON PROPERTY	0	0.0	
OTHER (WELLS, ETC.)	0	0.0	
NO RESPONSE	0	0.0	
TOTAL	7	100.0	-----

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

NUMBER AND PERCENTAGE OF PRINCIPALS OF MEDIUM COMBINED SCHOOLS IN CITY/SPECIAL SYSTEMS
EXPRESSING SPECIFIED FACILITY NEEDS

	NUMBER	PERCENTAGE	
MAINTENANCE	5	71.4	*****
CONSTRUCTION	2	28.6	*****
BOTH	0	0.0	
NEITHER (INCLUDING NO RESPONSE)	0	0.0	
TOTAL	7	100.0	-----

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

PLANT PROFILES: MEDIUM COMBINED SCHOOLS IN CITY/SPECIAL SYSTEMS

CRITERION	ADEQUATE		SUBSTANDARD	
	NUMBER	PERCENTAGE	NUMBER	PERCENTAGE
1. ENROLLMENT/CAPACITY RATIO <= 1	4	57.1	3	42.9
2. MEETS NATIONAL SCHOOL SIZE STANDARDS	7	100.0	0	0.0
3. MEETS NATIONAL SITE SIZE STANDARDS	0	0.0	6	100.0
4. ORIGINAL BUILDING 30 YRS OLD OR LESS	0	0.0	7	100.0
5. NO TEMPORARY STRUCTURES	6	85.7	1	14.3
6. NO BASEMENT USED FOR INSTRUCTION	6	85.7	1	14.3
7. NO BUILDING OF WOOD EXCLUSIVELY	7	100.0	0	0.0
8. CENTRAL HEATING IN ORIGINAL BUILDING	6	85.7	1	14.3
9. CENTRAL AIR OR ALL WINDOW UNITS	1	14.3	3	42.9
10. COMPLETE FLUORESCENT LIGHTING	2	28.6	4	57.1
11. USE OF WATER UTILITY	7	100.0	0	0.0
MEETS 7 OF 11 OF ABOVE CRITERIA	4	57.1	1	14.3

LARGE COMBINED SCHOOLS IN CITY/SPECIAL SYSTEMS

2 RESPONDENTS

NUMBER AND PERCENTAGE OF LARGE COMBINED SCHOOLS IN CITY/SPECIAL SYSTEMS USING SPECIFIED PROPORTIONS OF SCHOOL PLANT CAPACITY

ENRLLMENT/CAPACITY RATIO	NUMBER	PERCENTAGE	
ABCVE 0.0- 0.5	0	0.0	
ABCVE 0.5- 0.8	1	50.0	*****
ABOVE 0.8- 1.0	0	0.0	
ABCVE 1.0- 1.5	1	50.0	*****
ABOVE 1.5- 2.0	0	0.0	
ABCVE 2.0-13.0	0	0.0	
TOTAL	2	100.0	

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

SCHOOLS THAT EXCEED CAPACITY: 1 50.0%

NUMBER AND PERCENTAGE OF LARGE COMBINED SCHOOLS IN CITY/SPECIAL SYSTEMS HAVING SITES OF SPECIFIED SIZES (IN ACRES)

ACRES	NUMBER	PERCENTAGE	
0- LESS THAN 1	0	0.0	
1- LESS THAN 5	0	0.0	
5- LESS THAN 10	0	0.0	
10- LESS THAN 20	2	100.0	*****
20- LESS THAN 30	0	0.0	
30- LESS THAN 50	0	0.0	
50- LESS THAN 100	0	0.0	
TOTAL	2	100.0	

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

MEDIAN SCHOOL SITE SIZE IS 13 ACRES

NUMBER AND PERCENTAGE OF LARGE COMBINED SCHOOLS IN CITY/SPECIAL SYSTEMS MEETING SITE SIZE REQUIREMENTS: 0 0.0%

NUMBER AND PERCENTAGE OF BUILDINGS OF LARGE COMBINED SCHOOLS IN CITY/SPECIAL SYSTEMS OCCURRING AT SPECIFIED STAGES OF THE SCHOOL LIFE CYCLE

AGE (IN YEARS)	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
60 OR OVER	1 50.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
40- LESS THAN 60	1 50.0	1 50.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
20- LESS THAN 40	0 0.0	1 50.0	1 50.0	0 0.0	1 50.0	1 100.0	0 0.0
LESS THAN 20	0 0.0	0 0.0	1 50.0	1 100.0	1 50.0	0 0.0	0 0.0
TOTAL	2 100.0	2 100.0	2 100.0	1 100.0	2 100.0	1 100.0	0 100.0

NUMBER AND PERCENTAGE OF BUILDINGS OF LARGE COMBINED SCHOOLS IN CITY/SPECIAL SYSTEMS CONSTRUCTED OR ADDED IN SPECIFIED DECADES, 1840-1973

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
AFTER 1840 - 1870	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1870 - 1880	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1880 - 1890	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1890 - 1900	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1900 - 1910	1 50.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1910 - 1920	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1920 - 1930	1 50.0	1 50.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1930 - 1940	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1940 - 1950	0 0.0	1 50.0	0 0.0	0 0.0	1 50.0	1 100.0	0 0.0
AFTER 1950 - 1960	0 0.0	0 0.0	2 100.0	0 0.0	0 0.0	0 0.0	0 0.0
AFTER 1960 - 1970	0 0.0	0 0.0	0 0.0	1 100.0	0 0.0	0 0.0	0 0.0
AFTER 1970 - 1973	0 0.0	0 0.0	0 0.0	0 0.0	1 50.0	0 0.0	0 0.0
TOTAL	2 100.0	2 100.0	2 100.0	1 100.0	2 100.0	1 100.0	0 100.0

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
OLDEST STRUCTURE	1908	1925	1951	1961	1945	1948	0
MEAN YEAR OF CONSTRUCTION	1916	1937	1955	1961	1958	1948	0

NUMBER AND PERCENTAGE OF LARGE COMBINED SCHOOLS IN CITY/SPECIAL SYSTEMS HAVING SPECIFIED NUMBERS OF ADDITIONAL AND TEMPORARY STRUCTURES

	ADDITIONS	TEMPORARIES
0	0 0.0	0 0.0
1	0 0.0	1 50.0
2	1 50.0	1 50.0
3	1 50.0	0 0.0
TOTAL	2 100.0	2 100.0

NUMBER AND PERCENTAGE OF BUILDINGS OF LARGE COMBINED SCHOOLS IN CITY/SPECIAL SYSTEMS
UTILIZING BASEMENTS FOR INSTRUCTION OR OTHER PROGRAMS INVOLVING STUDENTS

ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
1 50.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0

SCHOOLS USING BASEMENT OF SOME STRUCTURE FOR INSTRUCTION: 1 50.0%

NUMBER AND PERCENTAGE OF BUILDINGS OF LARGE COMBINED SCHOOLS IN CITY/SPECIAL SYSTEMS
HAVING SPECIFIED NUMBERS OF STORIES (EXCLUDING BASEMENT)

NUMBER OF STORIES	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
1 STORY	1 50.0	1 50.0	1 50.0	1 100.0	2 100.0	1 100.0	0 0.0
2 STORIES	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
3 STORIES	1 50.0	1 50.0	1 50.0	0 0.0	0 0.0	0 0.0	0 0.0
4 STORIES	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
TOTAL	2 100.0	2 100.0	2 100.0	1 100.0	2 100.0	1 100.0	0 100.0

TWO STORIES OR MORE BUILT BEFORE 1920

1 50.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
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ALL WOOD STRUCTURES OF MORE THAN ONE STORY

0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
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NUMBER AND PERCENTAGE OF BUILDINGS OF LARGE COMBINED SCHOOLS IN CITY/SPECIAL SYSTEMS
USING SELECTED EXTERIOR CONSTRUCTION MATERIALS

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
BRICK	1 50.0	1 50.0	1 50.0	1 100.0	1 50.0	1 100.0	0 0.0
WOOD	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
METAL	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
STONE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
CONCRETE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
OTHER	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD	1 50.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, METAL	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, STONE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, CONCRETE	0 0.0	1 50.0	1 50.0	0 0.0	1 50.0	0 0.0	0 0.0
BRICK, OTHER	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD, METAL	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD, CONCRETE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, METAL, CONCRETE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, STONE, CONCRETE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
BRICK, WOOD, METAL, CONCRETE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
ALL OTHER COMBINATIONS	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
NO RESPONSE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
TOTAL	2 100.0	2 100.0	2 100.0	1 100.0	2 100.0	1 100.0	0 100.0

280



NUMBER AND PERCENTAGE OF BUILDINGS OF LARGE COMBINED SCHOOLS IN CITY/SPECIAL SYSTEMS
USING SPECIFIED TYPES OF HEATING, COOLING, AND LIGHTING EQUIPMENT

HEATING EQUIPMENT

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
JUST CENTRAL	2 100.0	2 100.0	2 100.0	1 100.0	1 50.0	0 0.0	0 0.0
JUST SPACE	0 0.0	0 0.0	0 0.0	0 0.0	1 50.0	1 100.0	0 0.0
CENTRAL & SPACE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
NO RESPONSE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
TOTAL	2 100.0	2 100.0	2 100.0	1 100.0	2 100.0	1 100.0	0 100.0

COOLING EQUIPMENT

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
JUST CENTRAL	0 0.0	0 0.0	1 50.0	0 0.0	1 50.0	0 0.0	0 0.0
JUST WINDOW UNIT	1 50.0	1 50.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
CENTRAL & WINDOW	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
NO MECHANICAL	1 50.0	1 50.0	1 50.0	1 100.0	1 50.0	1 100.0	0 0.0
TOTAL	2 100.0	2 100.0	2 100.0	1 100.0	2 100.0	1 100.0	0 100.0

WINDOW UNIT COOLING

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
ALL ROOMS	1 100.0	1 100.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
SELECTED ROOMS	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
NO RESPONSE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
TOTAL	1 100.0	1 100.0	0 100.0	0 100.0	0 100.0	0 100.0	0 100.0

LIGHTING EQUIPMENT

	ORIGINAL	ADD1	ADD2	ADD3	TEMP1	TEMP2	TEMP3
INCANDESCENT	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
FLUORESCENT	2 100.0	1 50.0	2 100.0	1 100.0	2 100.0	1 100.0	0 0.0
BOTH	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
CTHER	0 0.0	1 50.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
NO RESPONSE	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0	0 0.0
TOTAL	2 100.0	2 100.0	2 100.0	1 100.0	2 100.0	1 100.0	0 100.0



NUMBER AND PERCENTAGE OF LARGE COMBINED SCHOOLS IN CITY/SPECIAL SYSTEMS
USING SPECIFIED SOURCES OF WATER SUPPLY

	NUMBER	PERCENTAGE	
WATER UTILITY	2	100.0	*****
PUMP ON PROPERTY	0	0.0	
OTHER (WELLS, ETC.)	0	0.0	
NO RESPONSE	0	0.0	
TOTAL	2	100.0	-----

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

NUMBER AND PERCENTAGE OF PRINCIPALS OF LARGE COMBINED SCHOOLS IN CITY/SPECIAL SYSTEMS
EXPRESSING SPECIFIED FACILITY NEEDS

	NUMBER	PERCENTAGE	
MAINTENANCE	2	100.0	*****
CONSTRUCTION	0	0.0	
BOTH	0	0.0	
NEITHER (INCLUDING NO RESPONSE)	0	0.0	
TOTAL	2	100.0	-----

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

PLANT PROFILES: LARGE COMBINED SCHOOLS IN CITY/SPECIAL SYSTEMS

CRITERION	ADEQUATE		SUBSTANDARD	
	NUMBER	PERCENTAGE	NUMBER	PERCENTAGE
1. ENROLLMENT/CAPACITY RATIO \leq 1	1	50.0	1	50.0
2. MEETS NATIONAL SCHOOL SIZE STANDARDS	1	50.0	1	50.0
3. MEETS NATIONAL SITE SIZE STANDARDS	0	0.0	2	100.0
4. ORIGINAL BUILDING 30 YRS OLD OR LESS	0	0.0	2	100.0
5. NO TEMPORARY STRUCTURES	0	0.0	2	100.0
6. NO BASEMENT USED FOR INSTRUCTION	1	50.0	1	50.0
7. NO BUILDING OF WOOD EXCLUSIVELY	2	100.0	0	0.0
8. CENTRAL HEATING IN ORIGINAL BUILDING	2	100.0	0	0.0
9. CENTRAL AIR OR ALL WINDOW UNITS	1	50.0	1	50.0
10. COMPLETE FLUORESCENT LIGHTING	1	50.0	0	0.0
11. USE OF WATER UTILITY	2	100.0	0	0.0
12. MEETS 7 OF 11 OF ABOVE CRITERIA	0	0.0	0	0.0

SECTION 5

SUMMARY AND CONCLUSIONS

SUMMARY

In March 1973, the Bureau of Educational Research and Service at the University of Tennessee, Knoxville mailed a questionnaire entitled, "Description of School Plant Facilities in Tennessee" to each of the 1783 principals of public schools in Tennessee (as listed in Directory of Public Schools for 1972-1973 (20)). A total of 1451 questionnaires, or 81.4 percent of the number sent out, was completed and returned.

For purposes of analysis, schools were classified according to:

- 1) Type of System
 - a. County
 - b. City, Town, and Special District
- 2) Organizational Level
 - a. Elementary
 - b. Middle
 - c. Secondary
 - d. Combined (and Unknown)
- 3) Size
 - a. Small - enrollment below 350
 - b. Medium - enrollment 350-699
 - c. Large - enrollment 700 or above
- 4) Grand Division of the State
 - a. West Tennessee
 - b. Middle Tennessee
 - c. East Tennessee

Two sets of twelve criteria were developed to distinguish 'adequate' and 'substandard' school plants. According to these standards, 59.5 percent of all Tennessee Schools were found to be 'adequate' and 4.1 percent 'substandard'.

When schools were classified by Grand Division and organizational level, it was found that middle schools in West Tennessee contained the largest percentage (76.9) of 'adequate' plants. The highest percentage (7.1) of 'substandard' plants was among combined schools in West Tennessee.

When schools were categorized by size, organizational level, and type of system, medium sized middle schools in city/special district systems were found to contain the largest percentage (92) of 'adequate' plants. The highest percentage (13.3) of 'substandard' plants was located among small combined schools in county systems.

City/special district school systems were found superior to county systems in the percentage of 'adequate' plants: 75.6 percent for city/special district to 53.6 percent for county systems. County systems had more 'substandard' plants: 4.8 percent to 2.3 percent for city/special district systems.

Using organizational level to categorize school plant information revealed the following hierarchy with regard to 'adequate' plants: secondary schools highest with 71.6 percent, middle schools close behind with 71.1 percent, elementary schools with 56.3 percent, and combined schools last with 41.7 percent. In terms of 'substandard' plants, combined schools had the most (5.6 percent), elementary schools had 4.5 percent, middle schools 4.0 percent, and secondary schools just 1.7 percent.

When the school plant data were analyzed by school size, medium sized schools proved superior in terms of 'adequate' plant ratings. Medium sized schools had 68 percent of the total in the category rated 'adequate', large

schools followed with 60.5 percent, and small schools trailed with 48.4 percent. Small schools had the highest percentage of 'substandard' plants with 6, large schools followed with 4.1 percent, and medium schools had just 2.6 percent.

Looking at the data by Grand Division, West Tennessee schools led the State with 67.8 percent of the school plants in that category being rated 'adequate'. Middle Tennessee schools were second with 59.2 percent in the 'adequate' range; East Tennessee fared worst with 55 percent. Likewise, East Tennessee led in percentage (5.7) of 'substandard' plants; Middle Tennessee had 3.4 percent and West Tennessee 2.0 percent in the 'substandard' range.

More specifically, the data derived from the sample revealed the following facts about Tennessee's public school plant facilities:

- 1) According to national school enrollment standards, more than one-fourth (26.5 percent) of all Tennessee schools were too small to permit efficient operation.
- 2) More than one-third of the State's elementary and secondary schools were too large (contained too many students), according to national standards. Almost one-half of the middle schools were too large.
- 3) More than one-fourth (26.8 percent) of all Tennessee schools represented in the survey were enrolling more students than the school plant was designed to serve adequately.
- 4) Comparison with national standards for size of school site (in acres) indicated that only 16.2 percent of Tennessee's public schools had sites of sufficient size in 1973. The median site size for the State was 9 acres.
- 5) At the time of the survey 63.2 percent of the State's public schools were housed in 'original' buildings (oldest buildings still in use) 30 years of age or less. However, 72 buildings were reported to be 60 years of age or older (decidedly out-dated and perhaps unsafe); four structures were reported to be more than 100 years old.

6) Of the schools represented, 21.2 percent had at least one temporary structure; seven school plants included from four to thirteen such structures.

7) Use of a basement for instruction or other programs involving students was reported by 23.3 percent of the sample.

8) Most (64.4 percent of 'original' structures, 73 percent of all additions, 95.7 percent of all temporary structures) of Tennessee's public school buildings were structures of one story. Despite a State requirement that no building of frame construction shall exceed a height of one story, ten all-wood structures of more than one story were reported.

9) Brick was the most widely used material for construction of exterior walls of buildings represented in the survey.

10) Approximately 90 percent of the 'original' buildings were equipped with central heating systems in March 1973, but some 10 percent were still using space heaters as the sole source of heat.

11) Less than one-fourth (23.6 percent) of the schools in the sample had some permanent part of the school plant equipped with a central air conditioning system or with window air conditioners in all rooms.

12) Approximately 57 percent of the schools in the survey had fluorescent lighting in instructional areas of all permanent parts of the plant.

13) Most schools (86.7 percent) utilized water supplied by a water utility rather than by a pump located on school property or by other means.

14) More than one-half of the principals (52.7 percent) responding indicated that maintenance of present facilities was their most critical need at the time. Construction of new facilities was seen as most critical by 36.9 percent of the principals.

15) Principals specifying maintenance as a critical need felt that more funds should be allocated for maintenance, thus providing for more custodians and for better training and pay for these workers. Specific maintenance needs frequently listed were air conditioning systems, improved heating systems, exterior painting, and better lighting for buildings.

16) Principals favoring construction as the solution to current needs based their cases on such factors as overcrowding of present facilities, expected sharp increases in enrollment, costly maintenance of out-dated buildings, and inadequacy of old facilities for conduct of new programs. Types of facilities needed most included indoor play areas or gymnasiums, libraries, space for vocational courses, cafeterias, art and music classrooms, and kindergartens, in that order.

CONCLUSIONS

Few educators in the 1970's would seriously contend that students learn significantly more in school plants containing the finest of physical facilities. On the other hand, there is psychological evidence to indicate that students cannot learn as well as they might when they are uncomfortable. Learning certainly is not enhanced in a school building that is old and out-dated, inadequately maintained, poorly lighted, too cold in winter, uncomfortably hot in summer, and perhaps overcrowded.

The present study has revealed a number of positive things about Tennessee's public school plant facilities, e.g., on nine of twelve profile criteria a majority of the school plants were rated 'adequate', and in all just 4.1 percent of the school plants represented were rated 'substandard'. But the real contribution of such a study should be in the area of pointing out needs, in suggesting where improvements should be made to insure that no child's opportunity for learning is jeopardized by clearly inadequate facilities.

Objective evidence of critical facility needs such as this survey has furnished should be used by local school boards and by Tennessee's legislative representatives at the state and national levels to provide direction for current allocations and justification for future fund-raising efforts. Survey findings could help convince voters at the local level to pass school bond issues for needed facility improvements.

Adjustment of school enrollments to conform more nearly to national standards deserves a high priority among the current set of goals for education in Tennessee. Very small schools should be consolidated wherever possible; many of the largest schools should be subdivided. At the time of this survey there were still many one-, two-, and three-teacher schools in the state. At least 87 schools had 100 or fewer students--far too few to permit economical operation. More than one-fourth of Tennessee's public schools (26.5 percent) failed to meet the minimum enrollment figure of 300 established by most authorities.

Educational disadvantages offset any economies of operation that may result when enrollments soar. At the time of this study, more than one-third of Tennessee's elementary and secondary schools, and almost one-half of the middle schools exceeded the maximum enrollment figures established by national authorities.

Among schools represented in this study, those of medium size (enrollment of 350-699) had a higher percentage of plants rated 'adequate' than did large or small schools. This is one more indication of the validity of adjusting school enrollments so that they more nearly approximate national standards.

Desired educational programs may have to be modified or even curtailed when the number of students being served exceeds the number for which a given facility was designed. In 1973 more than one-fourth (26.8 percent) of

all Tennessee schools were enrolling more students than the school plant was designed to serve adequately. A significant program of construction to increase the capacity of school plant facilities in the State is urgently needed to correct this critical problem of overcrowding.

Schools should be situated on sites that provide room for outdoor play and equipment, physical education and athletics, outdoor study of the environment, meeting places for students and parking spaces for school personnel and visitors. Just 16.2 percent of schools in the survey sample had sites of sufficient size, according to national standards. Some plan should be devised for increasing the size of woefully inadequate sites. If a school with a site of insufficient size must stay in its present location, perhaps additional acreage adjoining, or at least within walking distance of, the plant should be purchased in order to permit the types of outdoor programming that are recommended by national authorities.

It is encouraging to note that at the time this survey was conducted, more than 63 percent of Tennessee's public schools were housed in 'original' buildings (oldest buildings still in use) 30 years of age or less. This means that a substantial majority of the State's schools were using buildings that were relatively up-to-date and easy to maintain. Unfortunately, at least 72 buildings in the State were reported to be 60 years of age or older. Plans should be made to retire most of these buildings from service as soon as possible.

Buildings constructed of wood exclusively present an obvious fire hazard. Despite a State requirement that no building of frame construction shall exceed a height of one story, ten multi-story structures built exclusively of wood were reported. These hazardous buildings should be replaced immediately with more durable structures.

Principals emphasizing the need for improved maintenance of school plant facilities listed 'updating of heating systems' as one of three most important maintenance problems demanding attention. Approximately 90 percent of the 'original' buildings in the survey had central heating. But 10 percent of the 'original' structures contained space heaters, a clearly inadequate means of supplying heat to school buildings. Funds should be allocated soon for converting the last group of buildings using space heaters to accommodate central heating equipment.

In 1973 few public schools in Tennessee were equipped with the mechanical cooling systems needed to provide a comfortable environment for students on a twelve-month basis. If optimum temperatures and humidity control are to be maintained, some type of mechanical cooling system must be used. Less than one-fourth (23.6 percent) of the schools sampled had some permanent part of the school plant equipped with a central air conditioning system or with window air conditioners in all rooms. If many of the State's schools adopt a plan for year-round operation in the near future, substantial sums of money will be needed for the installation of air conditioning systems.

The large number of detailed criticisms of school plant maintenance supplied by principals in connection with this study indicated that at many schools throughout the state an adequate building maintenance program was not in effect. Lack of funds was the explanation most often cited for the insufficient quantity and poor quality of the maintenance performed. Perhaps state and local authorities need to make a realistic appraisal of school maintenance programs to ascertain whether or not present allocations are sufficient to hire and train the personnel needed to keep school plants clean and in good repair. Current expenditures for maintenance must be compared with future costs of replacing facilities that are allowed to deteriorate as a result of insufficient preventive maintenance.

The urgent need for new construction to alleviate overcrowding has been detailed. In addition to general purpose classrooms, principals have said their most critical needs included indoor play areas, or gymnasiums, and libraries. Several principals stated that their present facilities did not meet the State's minimum standards in these areas. Since indoor play space and adequate library facilities can play a significant role in improving the learning environment of a school, efforts should be made to construct many more such facilities in the State. New construction must also provide space for vocational courses, cafeterias, music and art classes, and kindergartens.

Finally, information on 'adequate' and 'substandard' school plants obtained in the course of this survey indicates that there are certain categories of schools that need more attention than others at this time. County school systems had a smaller percentage of 'adequate' school plants and a larger percentage of 'substandard' plants than did city/special district systems. Apparently county systems are in need of greater expenditures for improvement of facilities at this point than are city/special district systems. Small schools (enrollment below 350) require more attention now than medium or large schools. Combined schools deserve special efforts to bring the quality of facilities closer to the level of facilities at secondary and middle schools. And school plant facilities in East Tennessee need to be brought closer to the level of those in West Tennessee.

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292

490

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APPENDIX A
SURVEY INSTRUMENT

493
295

BUREAU OF EDUCATIONAL RESEARCH AND SERVICE

Dear Principal:

The Bureau of Educational Research and Service at The University of Tennessee is attempting to obtain a current description of public school plant facilities throughout the state. Summary statements about school plant facilities in Tennessee, as well as individual descriptions of local facilities, then can be made available to the Tennessee State Department of Education, local boards of education, superintendents of schools, state legislators, and the public. We believe that the people of Tennessee need an accurate picture of public school facilities to increase their understanding of the need for building programs and for passage of the bond issues to finance such programs. This information should also furnish educators with a basis for determining future facility needs.

In order to obtain the most accurate current information, we are requesting each public school principal in the state to complete a brief descriptive questionnaire concerning his school plant facilities. This questionnaire, which is enclosed, should take no more than 15 minutes to complete.

To insure accurate communication a preliminary page of definitions, as used in the questionnaire, has been included. Please note that a special item has been included for reporting on school plants not in use or soon to be abandoned.

In order that we may compile our findings and provide you with a summary as soon as possible, please return the enclosed questionnaire to the Bureau of Educational Research and Service by March 16, 1973.

Thank you for your cooperation in this effort.

Sincerely,

Trudy W. Banta

Trudy W. Banta
Special Project Director

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Enclosure



DESCRIPTION OF SCHOOL PLANT FACILITIES IN TENNESSEE

Throughout this questionnaire the following terms are used as defined below:

School Plant - A site and buildings constituting the physical facilities used by a single school.

Original - That building being used now which was constructed and occupied earliest of all buildings currently in use.

Additions - Spaces added to the original building which are permanent in nature.

Temporary - Spaces added in the immediate proximity of the original building which can be moved to other sites.

Basement - Space which is below ground level (requiring window wells) on all sides.

Instructions: Please use this form to provide information on all original buildings, additions, and temporary structures now being used by your school. Buildings not in use, or to-be-abandoned buildings now used on a temporary basis only, should be mentioned in Item V.

Please use approximate figures and dates if exact figures are not known. If some information is not readily available in your office, please contact your superintendent's office for assistance.

BY MARCH 16 please return completed questionnaire to:

Bureau of Educational Research and Service
College of Education
The University of Tennessee
Knoxville, Tennessee 37916

495

For Office Use Only

System					School				WME	Gr.
(1)	(2)	(3)	(4)	(5)	(7)	(8)	(9)	(10)	(12)	(14)

DESCRIPTION OF SCHOOL PLANT FACILITIES IN TENNESSEE

I. Identification

- A. How many students were enrolled at your school as of September 30, 1972? _____ (17-20)
- B. What is the capacity of your school (the maximum number of students for which the school plant is designed)? _____ (21-24)
- C. What is the approximate size of the school site in acres? _____ (25-26)

II. School Plant Characteristics

The following questions concern characteristics of the original building which your school occupies, additions to that building, and temporary structures (see page 1 for definitions of these terms).

PLEASE ANSWER EACH ITEM SEPARATELY FOR EACH ORIGINAL, ADDITIONAL AND TEMPORARY STRUCTURE. If your school plant contains more than one addition or temporary structure, under the appropriate heading in A below write the year of construction for each of these structures in a separate column, then continue to use that column for responses concerning that particular structure throughout the remainder of Item II.

A check mark () in the appropriate columns is the only response needed for B and D-H below. Please supply appropriate figures for C.

CHARACTERISTICS	ORIG- INAL	ADDITION(S)			TEMPORARY			
A. Year Constructed								(28-55)
B. Place a check in the appropriate column for each structure which has a basement that is used for instruction or other programs involving students.								(56-62)
C. Number of stories, excluding basement								(63-76) (80) <input type="checkbox"/>

CHARACTERISTICS	ORIG- INAL	ADDITION(S)			TEMPORARY		
D. Exterior construction of building (check all that apply)							(17-58)
Brick							
Wood							
Metal							
Stone							
Concrete							
Other							
E. Type of heating equipment							(59-72)
Central (system for entire building)							
Space (individual room units)							(80) <input checked="" type="checkbox"/>
F. Type of cooling equipment							(17-37)
Central air conditioning system							
Window units for individual rooms							
No mechanical cooling system							
G. If window units are used, how much of the building is cooled?							(38-51)
All rooms							
Only selected rooms							

CHARACTERISTICS	ORIG- INAL	ADDITION(S)			TEMPORARY		
H. Principal type of lighting system in instructional areas							
Incandescent							
Fluorescent							
Other							

(52-72)

III. How does the school obtain its water? (Check one)

(73)

1. Water Utility _____
2. Pump located on school property _____
3. Other _____

IV. In order to carry out an adequate instructional program for your students, what do you see as the most crucial area of need for your school? (Check one)

(74)

1. Maintenance and repair of present facilities _____
- OR
2. Construction of new facilities _____

Please use the back of this sheet to explain your response to the above question.

V. If there is an abandoned building on your site, or if you are using a soon-to-be abandoned building to house temporarily some of your instructional programs, please use the back of this sheet to note that fact. In addition, if you feel that some of your responses on the questionnaire need clarification, please use the back of this sheet to do that.

(80) 3

APPENDIX B

COUNTIES IN GRAND DIVISIONS OF TENNESSEE

301

502

COUNTIES IN GRAND DIVISIONS OF TENNESSEE

West

Benton
Carroll
Chester
Crockett
Decatur
Dyer
Fayette

Gibson
Hardeman
Hardin
Haywood
Henderson
Henry
Lake

Lauderdale
McNairy
Madison
Obion
Perry
Shelby
Tipton
Weakley

Middle

Bedford
Cannon
Cheatham
Clay
Coffee
Davidson
DeKalb
Dickson
Fentress
Franklin
Giles
Grundy
Hickman
Houston

Humphreys
Jackson
Lawrence
Lewis
Lincoln
Macon
Marshall
Maury
Moore
Montgomery
Overton
Pickett
Putnam

Robertson
Rutherford
Sequatchie
Smith
Stewart
Sumner
Trousdale
Van Buren
Warren
Wayne
White
Williamson
Wilson

East

Anderson
Bledsoe
Blount
Bradley
Campbell
Carter
Claiborne
Cocke
Cumberland
Grainger
Greene

Hamblen
Hamilton
Hancock
Hawkins
Jefferson
Johnson
Knox
Loudon
McMinn
Marion
Meigs

Monroe
Morgan
Polk
Rhea
Roane
Scott
Sevier
Sullivan
Unicoi
Union
Washington