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A STUDY OF THE OPTIONAL SEVEN PERIOD DAY AS IT IS OPERATING AT LOGAN RIGH SCHOOL

by

Boyd L. Applegarth

A thesis submitted in partial fulfillment of the requirements for the degree

20

MASTER OF SCIENCE

in

School Administration

UTAH STATE UNIVERSITY Logan, Utah 378.2 ap 52 c.2

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Boyd L. Applegarth

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INTRODUCTION

Statement of Problem

Education is laboring under a mantle of criticism. This is neither a new nor a unique situation, but if this caviling approach will elevate the quality of education offered the youth of America it should be welcomed by educators and laymen alike.

The launching of Sputnik I has initiated an abundance of literature pertinent to education in general and the public high school in particular. Opinions and studies are available which offer recommendations for improving and strengthening the high school curriculum and schedule. The significance of the schedule is indicated by Philpot:

No phase of the school program escapes the influence of the schedule. To a considerable extent, the schedule reflects the purpose of the school and the philosophy of the principal and the faculty. In the final analysis it is the instrument which determines whether or not the human and material resources are utilized to the fullest extent in fulfilling the needs of the culture served by the particular school.

In a report given at the School Administrators Conference in Salt Lake City, Utah on March 27, 1958, E. Allen Bateman, Utah Superintendent of Public Schools recommended several changes and improvements in the secondary school program. One of which is . . . each school district prepare to place its high schools on a schedule of

Prank N. Philpot, "The Schedule - A Barrier or a Boon to a Good Curriculum," Bulletin of the National Association of Secondary School Principals, (Hereafter referred to as BHASSP) XLII (October, 1958), 39-41.

soven periods each day.² The Superintendent of Logan City Schools and the Principal of Logan Righ School in Resping with the demand for constant vigilance and improvement requested a study of the optional seventh period at Logan Righ School to aid in determining future alterations and/or expansion. As a teacher at Logan Righ School and a student of school administration the author volunteered to conduct a study of the schoolling program, as it pertains to the optional seventh period, in an attempt to determine answers to selected questions. This paper is a result of that study.

²E. Allen Bateman, "Adjustment of Education to New Domands" (Utah: Department of Public Instruction, 1958, p. 9. (Nimeographed.)

Method of Procedure

It was decided that any consideration for revision of the optional seventh period at logan High School should be accompanied by responses from the faculty, a representation of the parents, and a segment of the school population. In order to determine answers to selected questions three separate questionnaires were prepared which met the approval of the superintendent and the principal. A copy of each of these is included in the appendix.

The first questionnaire was directed to the faculty. Those instructors teaching an optional seventh period, or eight o'clock class were requested to answer seven questions and the balance of the faculty the final two questions only. Of the 35 faculty members, 33 responded or 9h per cent.

The second questionnaire was offered to the parents of students who registered for the optional seventh period for the cohool year 1959-60. Of the 200 parents, 132 responded or 66 per cent.

The third questionnaire was made available to all sophomore, junior and senior students participating in the optional seventh period. The author visited each classroom and personally administered the questionnaire. Logan Righ School has 213 participating students; 181 completed the questionnaire or 85 per cent.

A subsequent portion of this study compares the courses taken and credit earned by participating and non-participating students.

A survey of test results maintained by the logan City School
District revealed the academic top 15 per cent of the 1959-60 senior
class. Courses taken by this top 15 per cent are compared with course
recommendations of the eminent educator, Dr. James B. Conant, in his
recent study of the comprehensive high school

Delimitation

This study is delimited to the students enrolled at logan High School for the school year 1959-60, parents of the students and faculty members. Delimitation further includes only those courses offered for the year studied.

Definitions

Optional seventh period. — The optional seventh period is defined as those classes offered one hour before the normal school day. They are optional in that students may volunteer for enrollment. A formal class atmosphere prevails, attendance is recorded, and credit toward graduation may be earned. For the purpose of this study "optional seventh period" and "eight o'clock class" will be used synonymously.

Student body points. - Students may earn points for performing a service to the school. An accumulation of a satisfactory number of points while a student at Logan High School qualifies the seniors to participate in an honors banquet. These points have no relation to credit earned for graduation nor to grades received.

REVIEW OF RELATED LITERATURE

Amendment 10 of the Constitution of the United States indirectly authorises each state to establish and control public education within its legal boundary. Pursuant to this indirect authority, supervision and control is further delegated to every local school district resulting in a wide variation of educational offering, housing, purpose and organisation.

The daily schedule of the American high school is subject to such differences and variation. One can locate in virtually every text on administration specific principles and guides to follow while periodic literature effers techniques and patterns to copy. In the final analysis the schedule is determined by the student's capabilities and achievements; the state and local board policies, and constitutional provisions; and the understanding of college entrance requirements, accreditation standards, human and material resources necessary for the program.

The schedule is the framework about which the school program is moulded. The importance of this is indicated by Casile:

Perhaps no responsibility holds more implication for the effectiveness of the secondary school program than the planning and preparation of the daily schedule. While a good schedule cannot alone insure a good school, a poor schedule can result in chaos.

³A.M. Alexander, "What Procedures and Techniques Assure Good Schedules for the School and Individual Student," <u>BNASSP</u>, XLI (April, 1957), 107-11.

The practice of arranging the curriculum into a schedule patterned after an hour credit system, with some subjects required beyond which additional units could be chosen more or less freely, emerged as a result of a significant study conducted in 1892.

The National Blucational Association appointed a committee of ten noted educators, with President Eliot of Harvard University as chairson, to make a study of what was called "the gap between the elementary schools and colleges," Bby describes the function of the committee as follows:

The committee selected the nine fields of study usually taught in the high schools of the United States, and then induced ten experts in each field to hold a series of conferences and draw up their conclusions as to where, how long, and by what methods each of these mine fields should be taught. "The Committee of Ten" then undertook to correlate these recommendations into a program of reform. This was the first time in American education a group of 100 educators had undertaken to formulate a unified system of instruction for children and youth from six to 18 years of ago. The report was one of the most important educational documents over issued in the United States."

Some of their principles appear unrealistic today. The Committee declared "All subjects are of equal educational value if taught equally well." This names of thinking led the colleges to adopt the "unit system" for entrance requirements. In order to shorten the time of college preparation, the traditional lock-step, four-year, fixed-course curriculum was abandoned and the hour credit system adopted.

From the recommendations of the Constitute of Ten the public high schools began to arrange their courses into definite periods of time. Evolution has given us today's varied schedules.

Aprederick Sby, The Development of Modern Relocation (New York: Prontice-Hall, Inc., 1952), p. 592.

The following description will demonstrate the diverse and general nature of the high school schedule:

The conventional daily schedule:

1. Includes from four to ten periods; average is 6.8.

2. Has periods varying from 35 to 75 minutes in length, ever-

3. Has consecutive single periods with passing time intersper-

med.

h. Usually includes a home room period and a special period for student activities.

5. Includes a lunch period varying from 20 minutes to 80 min-

utes, average length about 45 minutes.

6. Organizes a school day varying in length from h 1/2 to 7 1/2 hours; median length is 7 hours including all intermissions and the lunch period.

7. Permits students to emroll in from h to 6 separate subjects

with a minimum of conflict.

8. Generally provides no unified relation between consecutive periods and subjects studied.

Each district is attempting to accomplish virtually the same end - proper education of their youth. The schedules or pattern within which they operate are as diverse and varied as the administrator's thoughts which construct them. The following few pages will ensuring various scheduling practices believed effective by their authors.

Jefferson County, Colorado has moved may from the routine by adopting this schedule:

A biology teacher instead of teaching 30 students per class five periods per day, meets all 150 students for one period on Monday during which he introduces students to the work of the week, giving presentations and demonstrations, shows instructional films and does other activities appropriate to large group instruction. On fuesday he teaches all six periods, meeting on the average 26 students per period with the most gifted being scheduled one period and the most retarded another period. On Wednesday and Thursday he also works all six periods

Swill French, Don J. Hull, and B.L. Dodds, American High School Administration (New York: Rinehart and Co., 1957), p. 291.

with each of the Tuesday groups scheduled for a double lab period on either wednesday or Thursday. On Friday he mosts one half of the group each of two periods for purposes of bringing together the work of the week, answering any questions that remain and doing evaluation. Instead of being in physical confrontation with students 25 periods per week this teacher has gained four periods for professional activities.

A Professor of education at the University of Massachusetts would recommend students attend half-day sessions for an eleven month school year. A good education for students, a full year's salary for teachers and a bargain in school construction for taxpayers are the reasons for such a program. The schedule is further supported by these arguments:

Teachers would be fresher due to the shorter class contact day. Many a voice, vigor, and patience will wear better through a four than a five hour stretch of one of the most difficult jobs known.

Students will require much less armual fall review to make up for the long summer forgotting period. Teachers would be better prepared with materials and ideas for a shorter class day due to the increased preparation time now available per class hour. Preparations right in the school with ewzything to work with and professional assistance available could make a tremendous improvement.

In some areas overpopulated schools have forced administrators to adopt schedules not normally employed. In other schools a nineperiod day is used with the student body divided into three shifts.

One shift is composed of a group of students living near enough to the school to walk to school and to go home to lunch. This shift attends the first three periods, goes

in High School, California Journal of Secondary Education, EXX (October, 1950), 356-82.

⁷Raymond Wyman, "Full Employment of Teachers and Schools," American School Board Journal, CXXXV (July, 1957), 25%.

home for the midile three periods, and returns for the last three. A second chift starts early and attends the first six periods. A third shift starts late and attends the last six periods. Thus only two thirds of the student body is in the building at any one time.

A modification of this type prevents schools from going on to half day sessions and also breaks from the semeshat traditional short school day. Ideas similar to this are becoming popular because utilization of the school plant is extended.

the director of Special Services in the public schools of Columbia, South Carolina offers that may be called an unusual, if not facetious, plan for coping with the local crowded conditions. The schedule would call for students to attend classes three days a week for eleven months. One group of students attend Honday, Mednesday and Friday and the second set on Tuesday, Thursday and Saturday. This would grant the administration greater flexibility in scheduling; encourage those who could only devote part time to teaching; allow teachers near a university to attend on alternate days; permit students to secure employment; and lessen student strain and rigors of hot weather.? There are undoubtedly many opponents to radical schedules such as this whose arguments would be extensive if not direct.

North Bend, Washington, High School has temperarily abandoned the school bells and clocks and allowed the students to follow naturally their own projects, with proper guidence, on Monley and Mednesday. Tuesdays and Thursdays find the students on a scheduled program, in

Swill Prench, Dan J. Hull, and D.L. Dodde, op. cit., p. 300.

Plann R. Halmbach, "The Alternate Day School," The Chearing House,

groups, accountable to teachers. Friday is devoted to individual and group reports and demonstrations before the classes. One period of the day is devoted to an all-school achievement assembly. It should be noted that Borth Bund High School is a four year school with 125 students and 7 teachers and a similar situation in a larger school would be difficult to employ.

Nontgomery has demonstrated in the <u>Fid Delta Rappan</u> the feeling of the progressive educators in that he cannot accept the segmented school day of \$10-60 minutes because in the progressive system it becomes necessary to displicate as closely as possible life's situations in the classroom; and class periods from ninety minutes to three hours are necessary to offer time to teach and time to learn.

We want the student to feel the character of the problem, to analyze its components, and to be prepared seriously to propose rationally defensible solutions. We are either asking too much of the student which our mager experience with the method already denies, or we need to reorient the time schedules to provide full opportunity for thorough digestion of facts and adequate growth of understanding to occur. I

There are apparently two trends with respect to organization of the school day and one is about as prominent as the other. A 1956 survey of 370 junior high schools across the nation states that the majority of the schools function with six periods of approximately 53 to 55 minutes not, with a short daily homoroom of 10 or 15 minutes;

Direction, (New York: American Book Co., 1910), pp. 1:6-1:7.

¹¹Ray Montgomery, "Time for Learning," Hat Delta Kappan, KKKIII (April, 1952), 382-84.

or a day of soven periods of approximately 17 to 18 minutes net. The seven period day consistently occupies one class period with activities, homerooms, or assemblies. 12

A questionnaire distributed in November of 19h7 to superintendents of schools in cities over 2500 population brought replies from approximately 1600 school systems. This study revealed that the majority of the schools had not changed the school day during the decade 1937-38 to 19h7-48 and in the systems where some changes had occurred the results almost cancel themselves out. Almost as many systems lengthened the school day as had shortened. It was indicated that by 19h7-48 the trend was toward longer class periods and fower offerings, with 70 per cent of the reporting schools utilizing a minimum 50 minute period. 13

A 1957 report in the Bulletin of the Sational Association of Secondary School Frincipals exhibits the growing trend to lengthen the class periods. In 1936 lass than 10% of the schools accredited by the Borth Central Association had class periods of 55 admites or longer. By 1912 slightly over 18% were using periods of 50 minutes or longer; and by 1950 one entire state (Indiana) had lengthened the class period for first class commissioned high schools to 55 minutes exclusive of all time used exchanging classes or teachers. It

¹²Harl R. Douglas, "Trends in Organisation and Administration of Junior High Schools," BNASSF, XI (October, 1956), 10k-06.

¹³ National Riucation Association, Research Division, "Trends in City School Organisation 1938-1948," Research Bulletin, XXVII (Pebrusry, 1949), 18.

lio.I. Poster, "that is the Most Effective May of Arranging the Length and Use of the Class Period?" BMASSF, MLI (April, 1957), 111-15.

renk and Varner are generally cautious about changes for the sake of change. When evaluating the modification of the school day by either lengthening the day and maintaining the present period length, or retaining the present length of the day and shortening each class period one should consider these factors:

1. Effect on classroom learning. Research has substantiated greater accomplishments with longer classes.

2. Effect on total curriculum, A longer day may seriously hamper extracurricular activities. Is it wise to have students spend 7 1/2 hours in class and expect them to remain 1 or 2 hours longer for athletics or music or drama or etc.?

3. Cost of instruction. Consider necessity of new teachers because of greater class offerings or to teach similar

classes which have increased in number, 15

Opposition to a demanding schedule is suggested by the thought that class periods should be fewer in master and longer in length.

A history class for example of 85-90 minutes in length for a secester rather than a 55-60 minute class for the entire school year would provide opportunity for the introduction of a variety of learning experiences not permitted by the short period. Pield trips made during the class's our period and without interference with the rest of the school program would be possible. 16

The longer periods crowd more classes offered into each hour and require that a larger number of classrooms be available each period. The longer classes have the advantage of permitting more emphasis on supervised study.17

dary School, (New York: Magnillan Company, 1946),

¹⁵G.L. Femic and Chern F. Varner, "Lot's Look Before to Leap,"

merican School Board Journal, CXXXIX (October, 1959), 21-22.

15Burton W. Gorman, "The High School Schoole," The American
School Board Journal, CXXVI (March, 1953), 49-51.

There is opposition and sees evidence that shorter classes are not the answer. That students will achieve more with the longer period is demonstrated by Koos in his study of 32 Ioua schools. This study showed consistent differences in achievement on objective tests in favor of longer periods. In this study 16 schools with a period of 55 to 60 minutes were paired with 16 schools having periods of 60 to 65 minutes. The students were then tested in nine subjects and in all nine, the students attending the longer periods made higher averages. It was also reported that the results were statistically significant in six out of the nine tests. 16

There is also a possibility of advantages with longer periods from the point of view of administration. Jacabson, Reavis and Logsdon report a study which indicated that a schedule with 55 to 60 minute periods and no double periods has 50 per cent fewer conflicts than a schedule with h0 to h5 minute periods using the double period. 19

In order to broaden the experiences of their students East Lansing, Michigan recommends 70 minute periods meeting four times a week. Each student carries six subjects through a five period day. Employing longer periods is an attempt to enrich the program and meet the needs of youth. 20

¹⁸ Leonard V. Moos, et al., Administering the Secondary School, (New Yorks American Book Company, 1940), pp. 299-300.

¹⁹ Paul B. Jacabson, William C. Reavis, and James D. Logsdon, The Effective School Principal, (New York: Prentice-Hall, Inc., 1954), P. 73.

²⁰ Lee F. Kirney, "that is the Most Effective Way of Arranging the Length and Use of the Glass Period," BHASSP, KLII (April, 1958), 25h-58.

increased demand to improve education it is believed in some quarters that it is no longer wise to permit students to elect some courses and to avoid others. The challenge of modern living calls for considerable training in all the major fields - social studies, English, science, mathematics, art and crafts, and health and physical education. Adaptations to variations among high school students should be made within courses in these subjects rather than providing many elective courses. 21

Those administrators favoring fewer and longer class periods
have stated that our schools are wasting much time that could be effectively used for study and learning. Mr. Cheny recommends longer periods and no study halls because students apparently did not know how
to study and were not utilizing their time officiently. A minimum of
50 minutes per period is necessary for:

1. Nove teacher-pupil time.

2. Supervised study.

3. Adequate time for science and gym classes.

4. Adequate time for lunch schedules, 22

The West Deer Township High School District, Chesnick, Pennsylvania has eliminated their study halls because they were believed to be unsting classroom space, time of the students and time and training of the instructor. A six period day of 50 minutes is practiced under the new plan in lieu of a day with more frequent but shorter classes.

228dward R. Ocony, "Longer Periods - No Study Halls," BHASSP, KLII (September, 1958), 135-37.

Hovier, Lill (Jamery, 1955), 16-24.

²³ Bruno A. Casile, "Study Halls Are A Musto of Valuable Glassroom Space," Nation's Schools, LIE (June, 1957), 84.

As the principal of Milliansport High School in Pennsylvania pointed out:

Working under the direction of teachers . . . is superior to having pupils work in study halls under the direction of teachers not at all familiar with the lessons the pupils are studying. . . or trying to work at home under no direction or misdirection. 24

Those who advocate the fewer but longer periods do so to develop solutions to their particular situation and because they believe the following conditions to exist: (1) greater student achievement with longer class periods, (2) improve student participation in entra-curvicular activities, (3) introduction of a wide variety of learning experiences, (b) less opportunity to waste time in a study hd 1, (5) fower administrative conflicts due to scheduling.

While cognizant of the above many school administrators and local boards of education are giving thought to a transition from a six to a seven or eight period school day because of the increased requirements for graduation, for remedial opportunities and for college entrance. The seven period day is not intended to be a panacea for these educational ills; however, this and other scheduling programs are gaining favor.

Robinson indicates the primary purpose of the seven period day is to provide remedial, enrichment, or intensified opportunity in established or related subject areas rather than to provide an added activity period. The school should not try to "manufacture" new elective subjects just to fill out a seven period day. 25

MiFoster, M.I. 111-15.

²⁵ Allerd F. Robinson, "Organisation of the Seven Period Day," California Journal of Secondary Biscation, XXXV (January, 1960), 17-20.

Night counties in New York reported the eight period day as being most common in eighty high schools, with the seven period day being the next most used type.26

School administrators in Hartford, Connecticut have been taking a close look at the 7th period in recent months and offer these reasons for its adoption:

1. Creates fewer course conflicts.

2. Offers students more study time during the day.

3. Enables the school to offer a broader selection of courses.

h. Oives the teacher a shorter class period.

Provides slow students more freeden in planning while offering a greater academic challenge for bright students through a heavier course load.

The disadvantages should be noted:

 Encourages students to apread themselves too thin in adademic subjects.

2. Makes school harder for slow students who have enough diffi-

culty with six subjects.

3. Offers too many study halls and disciplinary problems. 4. Teachers complain about shorter periods or longer day.

Remoth L. Mainle, Hartford's Director of Secondary Education reports problems will be compounded by the need for more texts, more space and equipment, course outlines for new classes taught, and more work for the counselors, 27

The movement to a shorter segmented day is rapidly becoming popular. Canton, Illinois reports a change from six hour-long periods to seven 55-minute periods in their high school; Pasadena, California secondary schools will have an optional seventh period to give

²⁶Burvil H. Olen, "Length of the High School Day," BHASSP, ML (October, 1956), 63-6.

January 12, 1960. "Mucator's Dispatch," The Letter for Administrators,

students increased opportunity for study; Yankton, South Dakota chopped 30 minutes from its lunch period and dropped the band from the regular school day in order to achieve periods. 28

atter Dr. James Commit visited a number of schools during his study of the comprehensive high school he prepared a tentative list of criteria which would enable him to pass judgment on whether a given school was performing satisfactorily the functions of a comprehensive high school. Included in this cheek list was a recommendation that the school day be organized into seven or more instructional periods, 29 He further suggests that if a school is organized with a sufficient number of periods in a day, there is no difficulty in having the programs of the academically talented include as many as four years of art, music, and other electives as well as five subjects with homesork in each of the four years, 30 One would recognize that Dr. Commit is primarily concerned with the academically talented students when he encourages:

... school day should be so organised that there are at least six periods in addition to the required physical education and driver education which in many states occupy at least a period each day. A seven or eight-period day may be organized with periods as short as forty-five minutes. . . With a six period day . . . The academically talented student cannot elect the wide scademic program. . and at the same time elect art, music, and practical courses. It

31 mid., 65.

June 27, 1959.

June 27, 1959.

Solvent, The American High School Today, (New York: McGraw-Hill Book Company, Inc., 1959) p. 19.

³⁰ Told., 26. (Dr. Comant's definition of "academically talented" students - about 15 per cent of our high school population with certain kinds of ability to successfully complete twenty or more years of formal schooling.)

This same national educator believes that there must be elective courses in the semior comprehensive high school which will occupy about half the student's time. 32 Other educators respond to the problem of restricted efferings and the "too-few" period day with caution. Redinson believes that the seven period day should not be required of all pupils within the school.

. . The establishment of individualized programs of study should encompass not only the choice of subjects but also the number of classes in which a pupil enrolls. The requirement that all pupils take the same number of classes each day is not consistent with the increasing exphasis on the individualized programs of study. Only pupils who have need and desire for enrichment or remedial work in a given area should be afforded the opportunity for this experience.

NoLaughlin is doubtful of the benefits gained from the addition of class periods,

A little more of less appears to be the outcome of fragmentizing of school time by that miracle 'the seventh period' . . . This policy should please all who gaze backwards and seldom bother to read research results. It

A fellow contributor to periodic literature, Farrer, states the seven period day program is not entirely new to Utah and his association with such a schedule has been satisfactory. The Granite School District instituted this program in its secondary schools in the 1940's and has operated it successfully since that time. According to the assistant superintendent for the district, it was accepted more than a decade ago as a forward-looking plan that would contribute

³² James B. Conant, "Some Problems of the American High School," Fhi Delta Kappan, KL (November, 1958), 50-55.

³³Robinson, XXXV, 17-20.

Review, LII (May, 1959), 21.

toward an improved educational program, 35

Until recently a seven-period day would not meet approval of the Northwest Accrediting Association for high schools. Utah's representatives in this Association have now paved the way for a change in the attitude of the Association. The Superintendent of Public Instruction in Utah lists the following as partial justification for acceptance of a seven period day in this state:

cal work in high school or for boys who desire to specialise in vocational agriculture or industrial arts, they often desire to take five to seven units in the specialized field. There are school and community pressures to have this pupil take a unit of music each year if the student has ability with an instrument or has a good voice. If this student is also required by parents to take time out for religious classes, it is impossible to get these subjects into three years of a six period day. 36

M. Clark Newell in 1959 compared the program of the seven period day with the program of the six period day in Utah high schools with envoluments of less than 800. His questionnaire received responses from 92 per cent of schools in this classification, when the principals and teachers were queried as to their preference whether a six or

³⁵ Kenneth C. Parrer, "Are Seven Periods Detter?" Utah Educational Beview, LTI (May, 1959), 20.

³⁶E. Allen Bateman, "Adjustment of Education to New Demands", (Utah: Department of Public Instruction, 1958), p. 9. (Missographed.)

There is significant community and parental pressure on the student in Utah public schools to enroll in one hour of religious training each day. Released time is made available for this study. The school year 1950-1959 at Logan High School witnessed 52 per cent of the school population enrolled in classes of religion. This, coupled with one hour of physical education required by the Utah State Board of Education, would, in a six period day, leave four class periods to earn gredit for other required and elective courses.

seven period day is a better program for the students 92 per cent of the principals and 60 per cent of the teachers preferred a seven period program. The teachers further indicated that 62 per cent preferred to teach in a seven period schedule and believed the majority (59 per cent) of the students favored such a program. 37

Olympus High School in this state carefully surveyed the gains and losses from a seven period day and offer the following as a summary of their beliefs:

advantages:

1. Provides more electives, thereby better meeting the moods of the students.

2. Nore flexibility in schedule.

3. Counseling opportunities are improved with flexibility.

la. Equalises responsibility of home room, increasing the possibility of individual teacher guidance because of decreased pupil ratio.

5. Greater opportunity of putting extra-curricular activities in the regular scheduled program, including sem-

inary.

6. Students spend more time in the school program on a seven period day than they do on a six period day. The seven period program includes 50 minutes actual class time, plus 5 minutes passing time.

7. Everything else being equal, it is easier to correlate programs between departments as a result of having a consistent policy of a period off for every teacher.

8. Less need for home assignments if the day is longer.

 Simplifies the transportation problem in that high school students can be delivered before elementary students and returned home after elementary.

10. The seven period day offers one extra elective opportunity per student over the six period day. This is a special advantage in a core course or double period

program.

II. Increases the opportunity for students to get depth in some one field, engineering, math, etc., for example: more periods per subject possible. Nore challange for better students.

Period Day and the Six Period Day in Smaller High Schools of the State of Utah" (unpublished Master's thesis, Department of Himstions al Administration, Brigham Young University, 1959), p. h3-bh.

12. Under a seven period program, offerings made possible are

ingreased by one-fifth.

13. The seven period program gives greater opportunity to a teacher to teach in the field of his special-ties and likewise makes possible the availability of students with special interest for these classes.

Il. The seven period day makes it possible for students to have seminary contacts and still have a well

rounded educational program,

15. The seven period day makes it easier to meet the

nos state program of studies.

16. The seven period program increases the possibility for work experiences within the school program with-out jeopardizing the general educational program.

Disadvantages:

 It is easier to have a supervised program in a six period, one hour program than in a seven period, fifty minute program,

 Does a seven period program offer too many subject contacts per pupil per day? With home work assignments

this may be a real burden on a student.

3. Under the seven period day, the teacher who was teaching in the basic academic areas, teaches about 25 minutes

longer per day than on the six period basis.

b. The teacher would prefer working in a program which more nearly meets the needs of youth through increased school offerings than to see his own program lightened. This may result in a heavier teacher load, 39

The administrators, boards of education, and the public must decide which is the best possible program for their youth. As early as 19th C.M. Whipple reported, "If any nation is destined to perish, it is the one that fails to provide the best educational opportunitates for those who show provides of leadership," One objective of American education is to produce the finest quality individuals and citizens in a desceratio way of life. If educators are constantly

³⁸ Himographed paper issued at quarterly meeting of Class A High School Principals in state of Utah, February, 1959, at Clympus High School.

alart to problems and opportunities this goal can be achieved. Bobbit offer an appropriate summary:

The purpose of education is to bring each human being to live as nearly as it practicable, in everything that he does in the way that is best for him. The method of education is for each individual to carry on all his activities all the time, as far as possible in the way that is best for one of his nature, age, and situation. In the education of any person, the good life is both the objective and the process. 39

³⁹ Franklin Bobbit, The Curriculum of Modern Education, (New York; McGraw-Hill Book Co., 1961), p.5.

HISTORY AND ORIGIN OF SEVEN-PERIOD DAY

AT LOGAN HIGH SCHOOL

The public school students in the state of Utah are granted "released time" from the regular school day to enroll in seminary classes under the direction of the Church of Jesus Christ of Latter Day Saints. These classes are taken in church owned and staffed buildings usually adjacent to the secondary school. The seminary program is not an integral part of the local or state educational systems.

The optional seventh period at logar High School had a very modest beginning. In 1956-1959 the seminary program under the direction of Ray L. Jenes made available to interested students a missionary training class as a fourth year course in what was normally a three year program. This class was designed for semiore, boys and girls, who had completed three previous years of seminary; Old Testament, lies Testament, and Church Ristory, and who showed interest in serving a mission for the Church of Jesus Cirist of Latter Day Saints. No credit was offered for the daily meeting. Attendance was recorded and a formal class atmosphere prevailed. The eight ofclock offering was expanded in 1959-1960 to include church history

which is a requirement for seminary graduation, 10 There is presently offered by three instructors two sections of missionary training and one of church history, 11

The second eight o'clock class offered at Logan High School was orchestra in 1951-1955. There are three reasons for its inclusion in the schedule at this hour. Prior to the current schedule two teachers were responsible for instrumental music instruction for the entire district - high school, junior high school, and elementary. One faculty member withdrew from this assignment having the remaining member to now instruct at the two secondary school buildings. In order to molicrate the teacher's personal schedule and to make orchestra available to more junior and senior high students the schedule adjustment was suggested.

The administration's discovery that band was more popular than orchestra was the second reason for the time alteration. Orchestra had to be placed at an hour when it would prove attractive to the students in order to compete favorably with other music classes.

LOThe seminary graduation requirements are dissimilar to requirements set down by the State Board of Baucation and the Logan City Board of Baucation. Graduation from the L.D.S. Seminary program requires successful completion of three courses; Old Testament, New Testament, and church history, normally taken in the freshman, sophomore and junior years. The Old Testament and New Testament are non-sectarian and credit earned will be applied toward high school graduation. Church history of course, is sectarian and credit earned is recognized only by the seminary program. Upon completion of the fourth year, secturian missionary training class, the student receives a certificate of completion. This credit does not apply toward high school graduation.

Almterview with Don Bishop, Principal of L.D.S. Seminary at Logan High School, February 26, 1960.

The third reason was a result of the necessity for "outside" practices and the desire of many students to register for both band and orchestra. At present 60 per cent of the masic students take both classes. The orchestra registrants may earn .25 credit or student body points - one point for every third practice. The orchestra class has increased in number each year since its conception with the exception of this year. Increased offerings in other fields of study have drawn potential music students into different eight o'clock classes.

The Reserve Officer training Corps, 12 has held a respected position in the Logan High School curriculum for 35 years, but only since 1957-1958 has such a class been offered before the normal school day. Provious to that time R.O.T.C. was taught during the second, third, and fourth hours of the day; however, the high school military personnel responsible were of the opinion that required classes offered at a similar time were demanding a large number of junior and senior students that may have been interested in classes of a military nature. In order to encourage student officers and non-commissioned officers to complete three years of R.O.T.C. training and to eliminate competition with other classes, an eight o'clock class was initiated. The R.O.T.C. program finds itself competing with or supplementing the physical education department depending on one's view. Two years of physical education are required. One year is required for all sophomore students; the other year may be taken as a junior or senior.

⁴² Hereafter referred to as R.O.T.C.

Two years of R.O.T.C. may be substituted for the second year of physical education. 13 It is the second and third year cadets the eight o'clock class is designed to attract. There is currently offered one section for junior students and one section for senior students.

The New Testament class, under the direction of Roverend Miner E. Frunce which was formerly offered within the normal school day, is available at eight o'clock during the school year 1959-1960. Designed for non-L.D.S. students and available in all grade levels, this course is taught in a nearby house of worship. Roverend Bruner is not a member of the logan High School faculty. His time and one ergy are denated to the school district.

Nochanical drawing, elementary typewriting, and health and physical ordered for the first time during the school year 1959—1960 to allow an enrichment program for those students wishing to expand their opportunities for taking additional classes. Student request and increasing graduation requirements encourage more classes being offered to allow for a wider selection of electives.

The complete eight o'clock curriculum is included in Table 1.

¹³ Logan High School Faculty Handbook. (Mineographed)

Table 1. Classes available at eight o'clock A.M. to legan High School pupils, and empliment 1959-1960

	Gredit serned	Orado lovel	lhuber enrolled	Elective or required	Credit earned toward high school graduation
Masionary Training	0	22	33	elective	DO
Church History	0	33	23	olective	110
Orchestra	.25	20,33,12	38	olective	yes
R.C.T.C.	.5	11,12	20	elective	yes
New Teatement	.5	10,11,12	9	elective	yes
Mechanical Desiring	.25	11,12	35	electivo	300
Memontary Typowriting	.5	20,32,32	35	elective	300
Sealth and Hysiology	-5_	11,12	_32	required	yea
Total	2,50		233		

PROCEDURE AND FINDINGS

Response of Faculty to Selected Questions

For the purpose of this study only, the faculty members of the L.D.S. Seminary are considered a part of the Logan Righ School faculty. Each of the 35 teachers was asked to respond to a questionnaire prepared and personally distributed by the author. Thirty-three were returned. The questionnaire might logically be divided into two parts; (1) the first four questions asking for a comparison of the eight and mine o'clock students relative to enadenic quality, problem of discipline, and number of tardies and absences to be answered only by those mine teachers having eight o'clock classes, and (2) the balance of the faculty responding to recommendations for program change and attitude toward a mandatory seven period day.

There are three instructors for the seminary classes, two for R.O.T.C. and one each for health and physiology, mechanical drawing, orchestra, elementary typewriting, and New Testament. The New Testament class is conducted for nine students in a nearby church by a local religious leader who is not a member of the high school staff. Because this instructor teaches only the eight o'clock class he would have no basis for comparison and consequently was not required to reply to the questionnaire.

Teacher recommendation is relied upon to determine differences in academic quality of the two groups of students. All eight o'clock

teachers have identical or similar classes at nine o'clock and are in a favorable position to perform such a commison

Table 2. Teacher comparison of eight o'clock students to mine o'clock students relative to academic quality

	Comparison	lksbor	Per cent
	Nich better	1	11
in the second	Somethat better	3	33
	About the same	L L	15
	Poorer	1	11
	luch poorer	0	_0
	Sotal	9	100

From the point of view of the classroom teacher the early class would be more enjoyable and more challenging because of the composition of the students. These teachers feel that the academic quality of the eight o'clock student is at least as good and frequently better than the student in the regular schedule. One teacher opposed this statement.

Discipline problems are always unpleasant experiences for teachers. To gain further insight into the quality and kind of student having an optional class a question was placed before the teachers of eight o'clock classes asking for a comparison of class control and discipline between the optional class and the regular nine o'clock class.

Table 3. Teacher comparison of eight o'eleck students to nine o'clock students relative to class control and discipline

Comparison	llaster (Por cent
For fower problems	3	23
Fower problems	2	22
About the same	6	67
Create more problems	0	0
Create for more probl	ens <u>Q</u>	_0
Total	9	200

In view of the results in Table 3, teachers can expect sementat fewer problems in class control and discipline with the seventh period students. Here of the instructors experienced an increase of such problems. The students are in attendance to learn, not to create a disturbance and waste classroom time.

It is disconcerting to the teacher, an interruption for the class, and a disadvantage to the individual student when he is tardy.

Almost every school will have some standard or policy attempting to keep tardies at a minimum. A comparison of the per cent of tardies of those eight and nine o'clock students will help to further describe the student who is registered for an optional seventh period.

Table h. Teacher comparison of eight o'clock students with nine

Comparison	For cont of difference	
Power turdles by		per cont
About the same 2		
Nove tardies by	10 20 25 5 10 500 10	per cent

Seven of the teachers involved with early classes report their eight eight o'clock students are tardy more frequently than their nine o'clock students. With one exception the increase in tardies is between 5 and 25 per cent. The outstanding exception reports a 500 per cent increase.

Prior to this study it was related by some teachers that the eight o'clock students were more prove to absence than the regular students and would, on occasion, absent themselves from the single early class. This is reason for concern since the loss, because of absence, to the teacher, classroom, and student are increased over that of the tardy student. Here again the teacher was requested to indicate a comparison between his two groups of students.

Table 5. Comparison of eight o'clock students with nine o'clock students relative to number d'absences

Comparison					Pen	oent	o.f	differ	ence	
About the sar Nove absonce	20 2	25	20	20	1	15	500	200		cent

Seven of the teachers stated their eight o'clock students are absent more frequently than the nine o'clock student. The reported increases are between 1 and 20 per cent with two exceptions. One instructor determined a 100 per cent increase and another an increase of 500 per cent.

School administrators are more that changes in established practices and policies should reflect to a degree the thinking of the staff. The faculty at large was asked for their recommendations pertinent to expanding, reducing or altering the optional seventh period. Table 6 records their reactions.

Table 6. Faculty recommendations concerning the extra class period

Recomendations		Mador	Per cent
Suggest the program remain unchanged		27	82
Suggest the program be expanded by adding the following courses:		5	35
all classes at eight o'clock on optional basis U.S. History physics or chemistry all electives	2 1 1 1 1		
Augnost the program be reduced by eliminating the following courses		0	0
none			
Other		1	3
Request optional classes become part of mandatory seven period day			
Total		33	100

Those teachers who recommended that the program remain unchanged indicated that the basic program is acceptable, but the administration should be source of and make minor changes as the situation demands. Expansion was recommended by 15 per cent. None wished to eliminate any existing classes. One teacher recommended abelition of the optional program in favor a a mandatory seven period day.

then queried as to their preference for a seven period or six period day for all students the teachers recorded a priority for maintaining the six period day.

Table 7. Paculty recommendation for a mandatory seven period day

Recommendation for seven period day		Munibear	For cont
Yes		7	21
16		26	_79
	Total	33	100

The 21 per cent recommending "yes" indicated it would place more importance on those eight o'clock classes that were experiencing frequent tardles and absences, strengthen the entire school curriculum, and offer all students greater chance for learning.

The remaining 79 per cent offered the following as support for their positions

^{1. &}quot;Lowe the program optional - good paychology for these students to do something on their own."

2. "Teachers would be burdened if they were required to teach six out of seven classes.

3. "Early morning hours are used by students for make-up work, and extraourricular activities such as practice, decorating, planning, and etc. "

Wany seniors work late evening hours. It would make the day too long - they wouldn't be effective."

5. "I would rather teach fewer hours more thoroughly."

In review of the faculty responses it can be said that the eight o'elock student's academic quality is equal to or higher than his counterpart at mine o'clock; he is responsible for fewer discipline problems; and is tardy and absent more frequently.

The proponderence of the faculty recommends the optional seven period day remain fundamentally unchanged and is unfavorable toward a mandatory seven period day. Comments on the questionnaire and conversation with the faculty leads the author to believe the rejection of a proposed sendatory seven period day is caused by an expected increase in classes taught per day and number of student contacts.

Response of Parents to Selected Questions

Good public relations and a desire to have the parents become interested and active in school affairs were reasons for inclusion of their responses in this study. Questionnaires were prepared and mailed to the parents of all students enrolled in an eight o'clock class. Of the 200 mailed, 132 were returned. Parent reactions were solicited to possible problems in the time schedule at home because of student's participation in an optional class at eight o'clock, transportation problems for the same reason, effect on student employment, parent's reason for student enrollment, effect on homework, and effect of class on non-school activities. As was done with the faculty, the parents were requested to supply recommendations for program changes and possible mandatory seven period day.

Table 8 shows the possible interference in the home time schedule due to a student's participation in an eight e'clock class. The "home time schedule" makes reference to the schedule of normal activities, e.g. awakening the family and preparing for day's activities, preparation of breakfast and punctual departure from home, occuring in a household during the early morning hours before school and whatever becomes necessary during the evening hours after school.

Table 8. Possible problems in home time schedule due to student's participation in eight o'clock class

Question	CE	HP	100	m	107	0	RO	74	No.	cent
Has created serious problems	0	1	0	0	0	0	0	0	1	.6
Has created some problems	3	3	1	3	0	5	3	5	23	17.2
Has created no problems	8	12	1	16	2	13	11	10	73	55
Has helped the	h	1	1	5	5	6	3	7	29	22
Has greatly helped the schedule	_1	0	_1	0	0	1	1	2	_6	5
Total		17		24			18	2h	132	100

"For the purpose of this table and the remainder of this paper the eight o'clock classes will be represented by those initials:

CH - church history

NT - New Testament

HP - health and physiology

0 - orchestra

ID - mechanical drawing

RO - R.O.T.C.

MF - missionary training T - typouriting (elementary)

Approximately half, or 55 per cent, of the parents believe that student membership in the optional seventh period group has resulted in no problems relative to the home time schedule. Thanty-seven per cent registered improvement in the time achedule to some degree while 16 per cent feel it has interferred with the home situation. Possible problems can be visualised if a family has students in the high school. junior high school and an elementary school, all of whom must be prepared for and arrive at their respective destinations at different times of the morning.

Logan, Utah is a community of approximately 17,000 residents and one high school. There are no school district caned and/or operated buses for the transportation of students. Travel to and from school is accomplished by walking, private automobile or the city buses. Table 9 shows relationship between an early morning class and difficulty in getting to school

Table 9. Possible problems relative to student transportation due to participation in eight o'clock class

Question	CH	HP	MD	112	112	0	RO	7	No.	Per
Consistently	1	0	1	1	0	0	1	1	5	4
Occasionally	3	3	0	3	0	2	3	2	16	12
Created no problems	33	13	3	20	h	21	13	17	102	77
Deproved trans- portation dituation	1	1	0	0	0	_2	1	7	_9	
Total	16	27	14	24	14	25	18	24	1,32	200

Lack of family problems or improvement in the student transportation situation due to participation in an eight o'clock class is recorded by 64 per cent of the parents. The remainder of the parents state the problems exist when the family resides a distance from the school sufficient to warrant use of bus transportation or when the student accompanies a working number of the household.

Many high school students, either through mocessity or preference, must be employed part time while attending high school. Table 10 demonstrates the affect the optional class had upon such employment.

Table 10. Possible problems in securing part time employment due to student's participation in eight e-clock class

Question	CE	IIP	160	117	182	0	100	2	lo.	Per cent
Prevented employment	0	0	0	0	0	0	o	0	0	
Made employment difficult	0	2	0	1	0	1	2	1	7	5
Did not affect	26	23	ų	23	4	24	25	22	121	92
Made employment more available	0	1	0	0	0	0	1	1	3	2.2
Insured student of	0	1	0	0	0	0	0	0		
Total	26	17	SERVICE		Design of	and the	18		132	100

Those who believe student participation in a class prior to
the normal school day has interferred with the opportunity for employment are in the minority. As mentioned in an earlier section, job
seeking and employment is accomplished primarily in the afternoons
and evenings.

The parents were requested to record their thinking as to the source of encouragement to the student for enrollment in an entru hour of school each day.

Table 11. Parent's reason for student's emollment in optional seventh period

initiated by	CEE	НР	MD	M	HT	0	no	T	tio.	Por
Parent	0	1	0	3	2	5	0	2	10	8
Stulent	2),	324	1	21	5	17	15	19	103	78
Paculty	_3	_3	2	0	0	6	2	_2	_19	7/4
Wotal.	16	17	le	24	4	25	18	24	132	100

Parents report that students are responsible for their own interest in the early class; however, parents will accept 8 per cent of the credit for initiating the students a action which is slightly higher than the 6 per cent the students recorded as parent initiated. The parents are sessuhat more generous than their offspring in recognizing the influence of the faculty. This response shows the faculty is almost takes as influential as the home.

Students are sometimes cautioned not to enroll for too many classes, other than those required, with daily homework because they may become unable to perform to their capacity. The parents were requested to indicate whether the eight o'clock class has influenced school assignments performed at home.

Table 12. Effect on other studies in relation to time and effort spent on homework

	CEI	HP.	100	102	102	0	RO	T	lio.	Per
Nade much more difficult	0	2	0	0	0.	0	0	0	2	.8
Made more difficult	2	2	0	3	0	1	5	6	214	30.4
Residued the same	214	24	4	23	4	23	15	15	112	81.8
Made easter	0	0	0	0	0	1	1	3	5	4
Hade mich eagler	0	0	0	0	0	0	0	0	_0	0
Total	26	17	4	214	4	25	18	24	132	300

There is a close correlation between the parent and student responses concerning the affect of the eight o'clock class on time and offert sport on homesorie. Some difficulty was indicated by 11.2 per cent; h per cent recorded homesorie was said easier. He effect on homesorie was demonstrated by 04.6 per cent. This is reason to ensure student interest and also confirmation to parents with students not enrelled that other grades and homesorie does not suffer.

thith national emphasis placed on bringing the family closer together the parents were asked to record their beliefs pertinent to the relationship between the eight o'clock class and non-school activities.

Table 13. Effect of optional class on non-school activities

Has student been less able to participate in church, fundly activities, etc.?	GEI	Ш	10	122	w	0	BO	2	lio.	Per cont
Consistently	0	1	0	0	0	0	0	0	1	.8
Cocasionally	2	1	0	0	0	1	3	0	7	5
Created no problems	13	15	4	23	b	23	25	21:	121	92
Increased participation	1	0	0	1	0	1	0	0	3	2,2
Oreatly increased participation	0	0	_0	0	0	0	0	0	0	0
Total	26	17	4	24	1	25	28	2h	132	100

Partnership in family activities has not been significantly altered by the student's early arrival at school or possible increase in homework during evenings and week-ends. Parents the responded that no problems were created account for 92 per cent of those questions naives received. Increased participation was experienced by 2,2 per cent while 5,8 per cent recorded some problems did exist.

Recommendations from the parents concerning changes or alterations in a future schedule are shown in Table II.

Table 11. Parent recommendations for optional asyenth period for the school year 1961-1962

Recommendations	CEE	HP	100	102	m	0	RO	T	lio.	Per
Program remain unchanged	224	12	2	12	5	22	11	27	95	72
Addition of following courses:									32	21.2
Required courses 15 Larguages 6 Rhymics 14 Chewistry 14 Industrial arts 3 Reduction of following			Hou Doo		ing ping or g		2 2 1 1 1			
Crohestra (to become	namet.	of s	from	eer e	avta	media	ndu)	۵)		
Othors									4	3
Leave decision to facul Orchestra daily at oigh		lock	3							
			200		Total				132	100

A large proportion, or 72 per cent, of the parents are content to have the current optional seventh period program remain uncharged. Those requesting additions are most interested in any required classes. Some responses were more specific when referring to additions, but there does not appear a demand for a particular subject area. The only successed reduction suggested that orde stra be removed from the eight o'clock offerings and made a part of the regular day's schedule. Other suggestions, by virtue of their small number, are of little priority.

Table 15. Parent recommendation for mandatory seven period day

	CI CI	НР	m	102	m	0	RO	7	No.	per-
Z. 2009	6	7	2	11	5	8	5	13	50,	140
. 16	20	10	_2	12	2	17	12	11	78	_60
Total	16	27	b	24	4	25	18	2h	132	100

A seven period day required for all students is not popular with 60 per cent of the parents. Some of the reasons offered for this are:

1. "Not in favor of seven periods. Teachers have too many demands. High school students are not capable of university pressure."

2. "If required classes were offered at eight o'clock it would be difficult for my girls to take missionary training and I

want this for my girls."

3. "If regular classes began at eight o'clock then the students would be required to come at seven o'clock for the extra classes, drills, practices, and etc. and that is too early. As it is they too often go with too little sleep."

h. "If they would get out earlier in the day I think a marketory eight o'clock class would be all right, but I think the school day is plenty long from nine o'clock to three

forty o'clock."

5. "It seems to me that shortening any class period to less than an hour is cutting essentials to improve probables. Give the child a little extra time in each class to work on assignments or get material to further homowork."

Those parents supporting a mandatory seven period day reinforce their decision with the following statements:

1. "She seems to do better in early classes."

2. "A very fine schedule I think."

3. "Would let them learn more."

h. "I am in favor of a mandstory seven period day and would recommend an eight period day and all classes start on the hour. I see no reason why the schools cannot have four periods in the afternoon as well as in the serning." One parent voiced his disapproval of being requested to make a suggestion:

"I don't know how parents could be expected to suggest whether or not the program be unchanged, expended or reduced. I feel that it is up to the school officials to decide whether or not it is essential, and if w, they should take the necessary steps so that all requirements might be filled for graduation. If the classes are well attended and the students desire this program then I feel that it should surely be continued, but if you are having to force students to attend at this early hour and are meeting with such opposition, then I would suggest that it be discontinued. As I have no knowledge of the conditions I could not be a judge."

A symposium of the parents' reaction to selected questions would reveal: some problems in the home time schedule with approximately as many fuvoring as opposing; generally no problems relative to student transportation; virtually no difficulty pertinent to seeking of part-time employment; student initiative is the basic reason for such envolvement; little affect on other studies due to additional homework; student is still able to participate in family and church functions; a large majority recommends the program results unchanged; and more parents favor a six period day than a seven period day.

Response of Students to Selected Questions

The recipients of the optional seven period program were asked to respond to pertinent questions. The author visited each classroom while class was in session to administer the questionnaire. Problems and questions were solved while the student answers were being recorded to insure complete understanding of sentence structure and student uncertainties concerning the questions. A follow-up visit was made to contact students who were absent on the previous occasion. As shown in Table 16, 30 per cent of Logan High School's student body, or 213 of 706 students, are participating in the optional seven period program. Of this 213, 181 responded to the questionnaire.

Table 16. Identification of respondents by grade level and sex

Grade level	Number .	Fer cent	Sex	Ruber	Fer cent
Sophotore	33	18	Male Sophomore Junior	103 13 18 12	57
Junior	79	hh	Female Soubonere	12 78 20 31 27	þЗ
Senior	69	38	Semior :		
Total	181	100		181	100

Sophomore registration in the optional seventh period is limited to elementary typewriting, New Testament and orchestra. The juniors mark the largest segment of participating students and are represented in all classes with the exception of miscionary training which is available only to seniors. The author senses a desire among junior students to increase their credit load during this year. Represented in each of the eight classes are the seniors with their greatest enrollment in health and physiology and missionary training.

That more boys than girls enroll in the early class is partially attributed to the knowledge that two of the classes, mechanical drawing and R.O.T.C. are not open to girls.

Table 17. Student reason for empollment in the optional seventh period

Reason	CII	IP	100	m	m	0	RO	2	Dumbar	Per
Red credit to	b	25	6	1	0	6	b	3	149	27
Opportunity to take elective	15	0	h	2	2	9	15	20	67	37
Incomagement from home	1	0	0	5	1	1	0	3	11	6
Pron faculty	1	0	0	0	0	1	0	1	3	2
Help propers for college	2	0	5	0	1	0	3	5	12	7
Only time course was offered	2	0	0	214	4	15	0	0	314	18
Total	23	25	12	24	8	33	24	32	181	100

That health and physiology is necessary for graduation is cause for the entire class of 25 to state this as their reason for enrollment. the other students in this initial category are students who have failed classes at an earlier date and find themselves lacking the minimum manber of credits for graduation. The h church history students obviously are referring to graduation from the L.D.S. Smalmary as credit in this class is not applied toward graduation from Logan High School. The single missionary training student is in error; this class same credit toward meither high school nor scainary graduation.

The opportunity to take an elective class in addition to the regular course offerings is what attracts the students to the early morning schedule. This is the greatest single cause for enrollment.

The proportionately small number of students influenced by encouragement from home, faculty and friends describe the student's assurences of his personal situation and his skility to solve some educational problems on the basis of his own reasoning.

Preparation for college holds small claim as reason for the optional period. Typewriting and R.O.T.C. becken most of this group.

Little choice in determining their eight e-clock schedule was offered those young people interested in orchestra, missionary training and New Testement (from Neverend Bruner). The early morning class is the only available time to effect registration; these classes are not offered at any other hour. The single church history entry in this category is in error; it is offered another time.

The author believes that there may be unlerlying reasons for enrollment in addition to those indicated in Table 17. A strong possibility would be to enroll for an eight o'clock class and arrange the

balance of the schedule to take some other specific class. The facts shown in Table 18 attempt to determine this.

Table 18. Enrollment in optional seventh period to take another specific class during the day

	Cil	HP	10	HT	W	0	70	2	Ihmbor	cent	
Yes	18	15	5		0	2	16	20	77	143	
llo	3	20	7	21	8	31	8	12	2.00	55	
No response	_5	0	_0	_2	0	0	0	٥	4	_2	100
Total	23	25	3.2	24	8	33	24	32	1.61	100	A TO

The 77 students who specifically desired enrollment in some class during the normal day's schedule and found it necessary to adjust their classes to include an eight o'clock class listed the following as that other class in which they wished to enroll:

Industrial Arts (7) Rechanical drawing advanced weedsoric radio auto mechanics	1	Science (5) chamistry botony soology	311
motal shop [histo (3)	2	R.O.T.C. (3) Sponsors	3
Hysical Rucation (6)	3	Home economics Mathematics (3)	3
competitive athletics	1	elementary algebra consumer mathematics	

Business Biacation (9) shorthand business machines bookkeeping	Social Studies (8) American Problems 4 world history 4
Lenguage Arts (12)	Soudnary (7) church history 7
Spanish journalism English (make-up)	library (study hall) 11

A compentrated descend for a particular class or general area of study is not evident from the above information. The student interest is widely distributed.

Extra-curricular activities frequently occupy part of the student's school day. The influence of the optional seventh period upon these activities is demonstrated in Table 19.

Table 19. Effect of eight o'clock class on participation in extracurricular activities

Effects	CII	m	10	M	nr	0	100	T	limber	Percent
Nuch more active	1	0	0	1	0	7	0	1	10	5
Hore setive	1	5	2	3	2	15	3	3	34	19
About the same	20	17	10	17	5	11	19	26	125	69
Loos setive	1	3	0	3	1	0	2	2	12	7
Far loss active	0	0	0	0	0	9	0	0	_0	_0
Total	23	25	12	24	8	33	24	32	161	100

Table 19 reports that 2h per cent of the students have increased their activity while only 7 per cent have taken less part in extra-

curricular activities. As all classes report some increase, it is apparent that the orchestra students are the recipients of a large measure of such activity. The 7 per cent who stated they were loss active are represented in 6 of the 8 classes in such esall manhers as to be of little importance. The bulk of the students report there is no change in their extractaricular activities because of an eight o'clock class.

Table 20. Effect of eight o'clock class on other studies in relation to thus and effort spent on homework

Effects	CII	HP	10)	MT	177	0	30	T	llo.	Fer
Made such more difficult	0	0	0	0	0	0	0	1	1	.5
Made more difficult	Ł	6	0	1	0	1	7	1	20	11
Romained the came	18	28	12	22	8	32	17	26	253	04.5
Nade easier	0	1	0	0	0	0	0	3	4	2
Nade much easier	1	0	0	1	0	0	0	2	_2	2
Total	23	25	12	21,	0	33	24	32	181	100

Table 20 indicates that a very large majority of the students believe the optional class has not affected, favorably or unfavorably, the balance of their schedule. Eleven and one half per cent or 21 participants are cognizant of one difficulty. Figures in the other two catagories are not significant.

Table 21. Effect of eight o'clock class upon opportunity for part-

Effects	CH	HP.	ID	M	M	0	10	7	lhmbor	l'er cent
Provented exployment	3	1	0	0	0	0	0	0	4	5
Mode employment difficult	1	0	0	0	0	1	1	0	3	2
Did not affect employment	19	22	22	24	8	32	22	28	266	92
Made employment more available	0	0	1	0	0	0	1	4	6	3
Created or insured no of a job	0	_2	0	0	0	0	9	0	_2	
Total	23	25	12	73.00	8	33	211	32	181	100

imployment on a part time basis for those students has little reference to their enrollment in an eight o'clock class. As many were assisted in employment as were impeded. Fursuit of labor by high school students is accomplished primarily in the afternoon and evening and an optional class before the normal school day would ordinarily not prohibit such activity.

If, when a student registers each spring, his schedule will permit he may enroll in a library class. This class is designed as a study hall to give students some study time at school while near printed references and the faculty. Table 22 attempts to determine the number of students so registered and the frequency of study halls.

An attempt to determine whether the early norming students were using the extra hour for a formal class or as a study period prompted the inclusion of Table 22 in this paper.

Table 22. Inclusion and frequency of study hall in schedule

Inclusion of study hall	thanbear	cent	Proquency of study hell	llumber	Fer cent
You	72	t _i o	Dadly	Li2	58
llo	102	60	Alternate	30	1/2
Total	161	200		72	100

The realization that the majority or 60 per cent of these students have not registered for a study period would suggest that they are more desirous of learning a new skill or emploring an area of interest with their optional hour than adding to their study time.

The Utah State Board of Education recommends that students attend school for six full periods a day. An effort was made to determine whether the eight o'clock students were envolled in a total of seven class periods per day or ending their school time one hour earlier than the regular student while still complying with the recommendations of the Utah State Board of Education.

Table 23. Number of daily class periods in which eight o'clock' students are enrolled

lass periods	CEI	IIP	HD	m	M	0	RO	7	lamber	Percent
Sevun	21	21	8	21	6	29	20	32	157	87
Six	2	1	h	3	2	4	4	0	20	11
Pive	0	2	0	0	0	0	0	1	3	1.
Four	0	1	0	0	0	0	0	_0	_1	
Total	23	25	12	24	8	33	24	32	181	200

Mighty seven per cent of the students are utilizing this time as an addition to the normal six period school day. The apparent exceptions to the minimum six period day are made for those students who by financial necessity must work a large part of the day; students who should have graduated in earlier years and have now returned to complete graduation requirements and find it unnecessary to spend the entire day at school; those students who are wards of the juvenile court and by mittal agreement the local board of education and the juvenile court feel a partial day best for those students; and a small number whose poor health would prohibit a full day's attendance.

In order to determine the importance of the optional seventh period to the participating student each was asked, "if it become accessary for you to eliminate one class, excluding those required, which one would you drop? Is this your eight o'clock class?"

Their collective reply is as follows:

Classes to be dropped:			
Library	33	Lenguage Arts Area	9
Sondnary Area	30	Industrial Arts Area	8
Dusiness Education Area	18	Hono Economics Area	8
Music Area	27	Social Studies Area	4
R.O.T.C. Area	214	Physical Education Area	lı
Solonce Area	12	Nathematics Area	2
		Art Area	2

Table 2h. Similarity of eight o'clock class and class selected for elimination

	CII	HP	10)	M	112	0	NO	•	Ranbor	Per cent
Yes	5	1	h	20	5	6	9	6	lu3	24
1lo	26	19	7	14	6	27	23	24	126	69
No response	2	5	1	0	0	0	_2	2	22	_7
Total	23	25	12	24	8	33	alı	32	181	100

Satisfaction with the early worning class is assured with 69 per cont stating that if any single class should be voluntarily eliminated it would not be the optional period.

The quantity of students who would repeat, in subsequent years, an optional seventh period enrollment would aid in determining the holding power of eight o'dlock classes. Table 25 reveals the number "new" to the program and the number of repeating students.

Table 25. Number of students who have participated in optional seventh period in previous years

ent in optional period prior to year	CH	HP	MD	m	m	0	100	2	Number	Fer cent
You	0	2	2	6	0	20	10	7	47	26
No	21	23	20	2.7	8	12	14	25	130	72
No response	2	0	0	1	0	1	0	0	_4	_2
Total	23	25	12	24	8	33	24	32	181	100

while 130 students have shown this is their first experience with the optional seventh period it should be recognized that 33 of this group are sophomores and have had no opportunity for such entrollment. The relatively small portion who are repeating an eight o'clock class would lead one to believe that eigher the students are not aware of the opportunities such a program offers as juniors and sophomores, or those who have participated in other years were not sufficiently satisfied to duplicate such registration. The fact that orchestra is offered only at eight o'clock would account for the large proportion of repeating students in that class.

Responses for possible expansion of the eight o'clock offerings were solicited from the participating students. These suggestions are assembled in Table 26.

Table 26, Student recommutation for program empansion

Recorner selection eight of classes	on of telock	CII	HP	MD	M	MT	0	Ro	•	Number	Per cent
	Yos	22	20	22	18	L	25	15	25	219	66
	llo	11	5	1	5	4	17	9	7	59	32.5
	No response	1	0	0	1	0	1	0	0	_2	1.5
	Total.	23	25	12	21,	8	33	24	32	181	100

The specific classes students wish to see added to the optional offerings are here listed:

AND	1	Foresalding	8
Sports	1	Physics	5
Industrial	Arbs 3	Geometry	1
shorthand	5	Chomistary	9
linglish	6	Algebra	2
Spanish		Consumer Nathematics	2
Corner	8	Trigonometry	1
Botomy		U.S. History	0
Soology		"Required" clessos	55

It is evident that a notable number of student wish to see the course offerings expanded. Specific student reconstendations are somewhat equitably distributed among seventeen different classes with one salient exception. Of the 119 recommendations for expansion, 55 fall under the catagory of "required" subjects. This would suggest that any required class at eight o'clock would improve the individual scheduling and arranging of classes during registration.

Each of the 181 students in question has a particular personal reason or a spark more subition to consent to one hour of formal education beyond the normal school day. It was decided to draw from

these people their reaction to a mandatory seven period day.

Table 27. Student recommendation for a mandatory seven paried day

	a miniatory period day	CEE	IP	מנו	112	117	0	200	•	lamber	Percent
	Yes	17	7	5	32	1	9	3	3.6	70	39
	llo	5	38	7	12	7	24	21	15	309	60
	No response	_2	0	0	0	0	0	0	1		_1
ger fo	Total	23	25	12	24	8	33	24	32	161	3.00

Seven period day is church history for which credit toward high school graduation is not offered. The other class which receives no credit toward graduation is missionary training. This group was evenly divided. One would suggest that if the participating students, those who are willing and ambitious enough to attend school one extra hour each day, are collectively opposed, the balance of the student body would support this attitude to a larger degree.

A digost of student responses revealer the main purpose of enrollment is opportunity to take an elective; there is no concentrated
demand for any other single class in the remaining six periods; such
participation has not appreciably affected extracurricular activities;
there is little affect on other studies due to time and effort spent
on homeoric caused by the eight o'clock class; opportunity for employment is not affected; the students are utilizing this time as an

addition to the school day; that a large majority indicate this is their initial experience with an eight o'clock class; a preponderance of students would recommend a wider selection of classes at an early hour; and 60 per cent do not favor a mandatory seven period day.

Comparison of Courses Taken and Credit Earned of Participating and Mon-participating Students

To further understand the operation of the optional seven period day at Logan High School it is necessary to compare a representative sample of eight o'clock and nine o'clock students in relation to the difference in total credits earned, if any, and the areas of study.

The author consulted the registration files for the current school year and selected the registration cards of 36 sephemores who are participating in the optional seventh period. These 36 students represent all of the sephemores so participating, an equal number of non-participating students of the same grade level was selected at random for comparison. This procedure was followed with 50 each participating and non-participating junior students and 50 each participating and non-participating senior students. The 272 students whose registration was investigated represents 39 per cent of the entire student body.

Recording the class taken and credit earned foreach student concerned revealed the sought after information. The following three tables indicate the differences in credit earned in the general study areas. When itemized list of credit earned for each class offered within each group of students is included in the appendix.

Malogan High School was established and still operates under the Carnegie unit of credit. Dependent upon the nature of the course offered, a student may earn from .25 of one credit to a full credit.

Table 28. Comparison of credit earned by 36 eight o'clock and 36 nine o'clock semionore students

Conoral area	Might clock	Mine otolock	Difference favoring eight o'clock	Pifference favoring nine o'clock
Arri	1.5	1.5		
Business Diucation	22.5	27.5		6
Homo Reconcedes	5.5	2	3.5	
Industrial Arts	4.75	4.25	.5	
Longuage Arts	47	46,25	.75	
Mathematica	33	24		1
Music	7.75	5.25	2.5	
Science	2.5	1	1.5	
Social Studies	16	8	8 .	
Physical Education	9.25	8.5	.75	
R.O.T.C.	6,5	6,5		
Sondnery	30	_30		
Total	185.25	274.75	17.50	7

The 36 eight o'clock students eared a total of 10.5 more credite than did the communion group of equal size at nine o'clock. This difference was distributed over 7 general areas of study with social studies manifesting the largest contrast. Home economics and music are the rescipients of the next largest increases. Susiness education shows a salient increase for the group beginning the school day at the tradi-

Table 29. Comparison of credit earned by 50 eight o'clock and 50 nine o'clock junior students

Conoral area of study	Elght clock	liine o'alock	Difference favoring eight o'clock	Difference favoring nine otolock
	,25	1		
Business Education	28	21.5	6.5	
Home Economics	2.75	3		.25
Industrial Arts	3.5	3.75		.25
Languago Arta	55,25	52.25	3	
Mathematics	20	25		5
Music	5	3.75	1.25	
Solence	56	54.5	1.5	
Social Studies	49	50		1
Mysical Education	8.75	7.5	1,25	
R.O. F. C.	10.25	8.5	1.75	
Sendowy	39	36	3	
Total	277.75	266.75	18.25	7.25

Carmered over seven areas of study are the 11 additional credits carmed by the 50 eight o'clock students with business education, large usee arto, and seminary displaying the greatest difference. The area of mathematics proved more popular with a difference of 5 credits carmed by the nine o'clock students.

Table 30. Comparison of credit earned by 50 eight o'clock and 50 nine o'clock senior students

Ceneral area of study	Might Velock	Nino otolook	Difference favoring eight etclock	Difference favoring nine o'clock
M.	2.5	2	.5	
Dusiness Education	28.75	27.5	2,25	
Home Economics	3	4,25		1,25
Industrial Arts	5.75	3,25	2.5	
Languago Arts	66,25	57.75	0.5	
Nathenatics	16.5	14	2.5	
Ikieto	7.25	3	4,25	
Salence	55.5	65		9.5
Secial Studies	55	52,5	2.5	
Hydical Education	20,25	9.75	3	
R.O.T.C.	9.5	5	1.5	
Sondnery	28	L 3	214	
Total .	288.25	21,8,00	51,00	10.75

Ton areas of study contributed to the 50.25 increased credits earned by the optional class students with language arts, music, R.C.T.C., and seminary contributing the largest portions. Science registered a substantial increase in favor of the nine o'clock students. Genier

students are permitted to register for more full credit courses than are sophonores and juniors. This will account for the greater number of credits earned by the eight o'clock sophonores and juniors.

The 136 students in the optional seventh period samed a total of 61.75 more credits than did an equal number of nine o'clock students. With the exception of the seminary area at the semior level these increased credits do not represent a significant student interest in any single area of study.

COMPARISON OF TOP 15 PER CENT OF SENIOR CLASS TO RECOMMENDATIONS OF DR. JAMES B. COMANY

then one attempts a study or critical analysis of education or its many divisions that person frequently consults the authorities. One of the nation's most respected and informed living educators is Dr. James B. Coment. The author of many books and contributor to periodicals, Dr. Coment was, in his early years, an assistant professor of chemistry at Harvard University. He later became head of the chemistry department before his selection as president of the University in 1933, a position he held until he retired in 1953.

He served the nation in two world wars; in the Chemical Warfare Service and as an adviser to the Manhatten Project which produced the first atomic bomb. He has been a lifelong student not only of American education but also of comparative education, and has made intensive studies of Australian, New Zealand, British, German, and Swiss schools.

Dr. Commit was sent to Germany in February 1953, as U.S. High Consissioner, a post he retained until after the formal occupation was terminated, when President Risenhower appointed him U.S. Ambassader to the Federal Republic of Germany. He resigned in early 1957.

His most recent contribution to education, more generally the American public, is a study of the comprehensive American high school. High schools in 26 states received the visits of Dr. Commut and/or his co-workers. His "first report to interested citizens" labels the objectives of such an institution as follows:

high school are: (1) to provide a general education for all the future citizens; (2) to provide good elective programs for those who wish to use their acquired skills in-mediately on graduation; (3) to provide satisfactory programs for those whose vocations will depend on their subsequent education in a college or university.

It is the third objective that immediately interests this author. Purther reading of Conant will reveal the structure of our educational system contributes to its can problems. The first objective quoted above can and does limit the accomplishment of objective three. Conant explains this:

there is no doubt that the use of our public schools consciously or unconsciously to keep our society "democratic" and fluid prosents us with an educational dilemma. The more we try to employ the instrument of universal education to offset those forces of social stratification inherent in family life, the more we jeopardise the training of certain types of individuals. In particular, we tend to overlook the especially gifted youth. We neither find his early enough, nor guide his properly, nor educate his adequately in our high schools.

A look at our scheduling practices in American high schools may initiate action that would, in part, achieve the objectives and deter the faults. A brief example of this would direct our attention to Conant's recommendation for a seven or eight-period day with periods as short as forty-five minutes. Laboratory periods as well as industrial arts courses should involve double periods. Increased class periods allow a flexibility of course selection that is denied students under the traditional six period day. A required physical education class for all and a "required" seminary class for a large

¹⁵ James B. Conant, The American High School Today, (New Yorks McGras-Hill Book Co., 1959) p. 17.

Harvard University Press, 1946), p. 65.

majority of Utah students would further limit course selection.

While this situation is undesirable for the general student it is magnified for that Dr. Comant nominates as the "academically talented".

A broad definition of academically talented would include those students . . . able to study affectively and rewardingly a wide program of advanced mathematics, science, and foreign languages. 47 Cm a mational basis, the group referred to as academically talented constitutes about 15 per cent of the high school population. 48 A program of study for this top 15 per cent would include:

Four years of mathematics, four years of one foreign language, three years of science, in addition to the required four years of English and three years of social studies; a total of eighteen courses with homework to be taken in four years, 19

The arguments in fever of an academically talented student's electing a wide program of at least eighteen hours of homework are best related by Conants

To my mind the most compelling argument is that the student is question has potentialities shared with only a relatively few contemporaries, probably not more than 15 percent of his age group. If these potentialities are not developed as far as possible during the school years, they may mover be fully developed. From the point of view of the individual, failure to develop talent in school may be the equivalent of locking many doors. For example, without mathematics and science in high school, it would be difficult later to enter an engineering school, to take a premedical course in college, and impossible to begin a scientific career in a university. If scmething approaching mastery of a foreign language is not attained before graduation from high school, it may never be attained.

⁴⁷ Conant, The American High School Today, p. 20.

⁴⁸ mid., 50.

⁴⁹ mid., 57.

The loss to the individual from not electing a suitable program in high school is clear. So too is the loss to the nation. From the 15 per cent of the youth who are academically talented will come the future professional men and woman. These people ought to have as wide and solid an education as possible. It is in the national interest to have them develop their capacities to the full and to start this development as early as possible. So

with this information in mind the author attempts, in this section of the paper, to compare the courses taken of the top 15 per cent of the 1959-1950 senior class at Logan High School with the recommendations set down by Dr. Conant for the scadesically talented. This study concerns itself with Dr. Conset's report in order to determine if the academically talented were enrolled in the eight o'clock class, and if they were to what degree if any the entra hour enabled them to complete classes in the recommended areas of study. Thirty-five students (15 per cent of the 235 stulents in the senior class) were selected according to available test data and recommendation by school administrators. Those students were selected who received recommendations from the school principal, the counselor for girls, the counselor for boys, and whose percentile score was 85 or higher in the following tests: (1) National Merit Scholarship; (2) Nemson-Nelson Test of Montal Ability; (3) Cooperative Achievement Test (English); and the (h) General Aptitude Test Battery (verbal and numerical). Test results were made available to the author on the condition that students would not be identified by name. After these stulents had been selected their permanent record cards were investigated to determine courses taken during four years of high school. Table 31 offers the comparison.

⁵⁰ mid., 59-60.

Table 31. Comparison of credit carned in selected areas of study of top 15 per cent of senior class at Logan Righ School with recommendations of Dr. James B. Conart

Areas of study			Stu	dent di	ita			
Student number	1	2	3	4	5	6	7	8
Sax 1	P	H	P		M	.	и	P
Envolted in eight o'clock class in 1959- 1960	llo	Yes	Yes	llo	Yes	llo	lio	llo
Nathematics credit earned (Recommended = h)	**************************************	5	2	1	2		3.5	•
Foreign Language credit earned (Recommended - h)	1	2	0	0	3	a 1	0	0
Science credit earned (Recommended - 3)	2	2	1	1.5	2	2,5	3	3
Inglish credit carned (Recommended - 4)	4	L	4	ı	L	L	4	L
Social studies credit earned (Recommended - 3)	2	3	3	3	4	3	4	2
Courses with home- work taken in four years (Recommended - 18)	10	26	20	9.5	15	11,5	24.5	23

Table 31. Continued

Areas of study	Student data								
Student number	17	18	19	20	21.	22	23	21,	
Cox	H	H	M		7	7	и	7	
Burolled in eight o'clock class in 1959- 1960	lb.	Шо	No	Yos	You	Yes	You	llo	
Nathematics credit carned (Recommended - b)	3	3	3	2	3	2	5	3	
Foreign language credit earned (Recommended = 14)	2	0	•	1	0	1	0	1	
Science credit carned (Recommended - 3)	2.5	2	3.5	3	1.5	2	1	2.5	
English credit earned (Recommended = 14)	L	h	4	4	L	b	h	4	
Social studies oredit earned (Recommended - 3)	3	4	h	2	3	h,	3	2.5	
Courses with home- work taken in four years (Recommended = 16)	11.5	13	24.5	12	11.5	13	13	IJ	

Table 31, Continued

Areas of study	Student data							
Student number	25	26	27	28	29	30	32	32
See	H	P	,		7	н	,	2
Enrolled in eight o'clock class in 1959- 1960	llo	llo	No	You	Yes	Yea	lio	Yes
Hathematics credit earned (Recommended - h)	4	1	1	h	1	4.5	1	1
Foreign language credit carned (Recommended - h)	0	0	2	0	1	1	0	0
Science credit earned (Recommended - 3)	2.5	2.5	3	3.5	1,5	3	1,5	1.5
Inglish credit carned (Recormended - Li)	4	h	h	h	li	4	4	h
Social studies credit earned (Recommended - 3)	3	,	3	2	h.5	3	3	4
Courses with home- work taken in four years (Recommended + 18)	13.5	20.5	13	13,5	12	15.5	9.5	10.5

Table 31. Continued

**************************************				公司等数字至2位。至3号400000000
Areas of study	Stra	ient d	sta	
Student number	33	34	35	
3-2	M	9	H	17 malo = 18 female
Involled in eight o'clock class in 1959- 1960	310	Yes	llo	15 yes - 20 no
Mathematics credit carned (Recommended - Li)	2		4	2.6
Foreign language credit earned (Recommended = 4)	0	h	0	wear .7
Science credit enroed (Recommended - 3)	3,5	3.5	3	menn 2,5
English credit ourned (Recommended + h)	h	P	4	moan b
Social studies credit earned (Recommended - 3)	3	3	3	mean 3
Courses with home- uork taken in four years (Recommended = 18)	12,5	15.5	24	man 12.8

Logan High School's academically talented students are evenly distributed between the cases. While parhaps not statistically reliable, it is evident that a relatively larger proportion, 15 of 35, or h3 per cent of the academically talented are enrolled in on early class while only 213 of 705, or 30 per cent of the total student body are so engaged. Of the 15 academically talented participating in the early class 9 are females.

The top 15 per cent the participated in an eight o'clock class earned a mean 13.2 credits in the five areas of study while the nine o'clock students earned a mean 12.6 credits.

Collectively, these students fall short of Dr. Conant's recommendations in three of the five study areas. Foreign language, proximent in its deficiency, demonstrates the poorest record. The recommended 18 hours of homesons is far in excess of the 12.8 accomplished by the top 15 per cent of the 1959-1960 senior class at logan High School.

SUMMARY, CONCLUSIONS AND RECOMMENDATIONS

Summary

What the author believes to be the significant results of this study are summarized below:

- 1. The addition of four new eight o'clock classes for the school year 1959-1960 brought the total to eight; six of which offer credit for high school graduation. Student request, opportunity to explore an area of study, and a general increased number of subjects required for graduation were the reasons for such addition. Thirty per cent of the student body is enrolled in an eight o'clock class.
- 2. The teachers of the eight o'clock classes feel the ecalemic quality of those students is at least as good and frequently better than the student in the regular class.
- 3. There are fewer control and discipline problems with eight o'clock students than with nine o'clock students.
- 4. A greater number of tardies and absences are evident in eight o'clock classes than in mine o'clock classes.
- 5. A large majority of the faculty indicates reasonable satisfaction with the current program.
- 6. The faculty is collectively opposed to a maniatory seven period day. The primary reason for this is anticipation of a longer work day - teaching six of seven classes where they are now teaching five of six.

- 7. Student participation in the optional seventh period has not affected nor helped the home time schedule, e.g. normal family activities necessary to begin each day. A similar statement can be made for student transportation to school.
- 8. Part time employment is not altered by enrollment in an eight o'clock class.
- 9. Initiative on the part of the student is responsible for his participation in an eight o'clock class. Little credit can be awarded to the faculty or parents.
- 10. Time and effort spent on homowork in other classes and extracurricular activities are not affected by the optional seventh period.
- 11. Parents as a group would recommend the eight o'clock pro-
- 12. The majority of the parents do not favor a mandatory seven period day.
- 13. While all grade levels are participating, the juniors hold a plurality. There are more boys than girls taking part.
- Mr. Students are enrolled because they need the credit to graduate, it is an opportunity to take an elective, or it was the only timethe course was offered.
- 15. Slightly less than half of the participating students enrelled in an eight o'clock class do so in order to adjust their schedule so that they might include some "other" class in their day's activities. There is no evidence the "other" class represents a particular field of study.

- 16. Sixty per cent of eight o'clock students do not have a study period within their daily schedule. This "extra hour" in school is spent, by most students, in a formal classroom studying a particular subject.
- 17. The early students are not using the eight o'clock class as a device to end their school day at an earlier hour. A full seven perlods are experienced by 87 per cent of this group.
- 18. Less than one third of the students enrolled in an eight o'clock class had enrolled at a similar time in previous years.
- 19. A majority of the students recommend wider selection of course offerings at the early hour with "required classes" being the most popular.
- 20. A majority of the students do not favor a mandatory seven period day.
- 21. Those students cooperating in an optional seventh period are earning more credits than their nine o'clock counterparts in from seven to ten general areas of study.
- 22. While perhaps not statistically significant, it is noted that a larger ratio of the academically talented students are enrolled in eight o'clock classes than the student body at large. Those students in the top 15 per cent who are enrolled in an eight o'clock class are more nearly accomplishing the courses suggested by Dr. James B. Conant than those whose day begins at nine o'clock.
- 23. The top 15 per cent of Logan High School's graduating class for 1959-1960 are earning fewer credits than those recommended by Dr. James B. Conant in mathematics, foreign language, and science.

 Lack of foreign language study is the outstanding deficiency.

Conclusions

- 1. Direct benefit to the individual and indirect benefit to
 the community and nation are evidenced in the knowledge that thirty
 per cent of logan High School's student body is desirous and ambitious
 enough to voluntarily enroll for an entra hour of study in the school
 day. Such action is in contrast to frequent reports of juvenile misconduct and for this action they are to be commended.
- 2. Eight different classes taught at eight o'clock of more than 63 available have attracted 30 per cent of the student body. If the eight o'clock offerings were expanded to include additional areas of study the interested students might number well beyond the present figure. The increase in students could evolve into a seven period day with most or all students participating.
- 3. The better quality student is the one attracted to the early morning classes. His academic achievement is respected by teachers, his conduct is most favorable, and his ambition and aspiration prepare him for leadership in a competitive world.
- 4. The relatively small number of students who register for cight o'clock classes for more than one year while at logan High School is caused by the small number of classes available, resulting in fewer choices, and sophomores new to the school who are perhaps insufficiently informed of the optional seventh period program.

Recommendations

Recommendations following this study are here indicated:

- 1. It is recommended the eight o'clock classes remain "optional" to encourage study and learning for those interested and ambitious students who are willing to begin school an hour earlier each day than their classmates. The segment of slow students could not effectively handle an additional hour of school.
- 2. It is recommended that one or two sections of some "required classes", e.g. chemistry and U.S. History or one section each of English 10 and 11, be made available to improve individual student scheduling for the balance of the school day.
- 3. It is recommended that a more detailed study of the feasability of a mandatory seven period day be conducted, in the event a mandatory seven period day is desired, to include cost to the school district for possible increases in teaching personnel and supplies, additional classrooms and facilities, changes in student contacts and number of preparations for faculty members, acceptance of changes by
 Horthwest Accrediting Association, and other related problems.
- 4. It is recommended that sophomore students and transfer students be made cognisant of the eight o'clock program and its advantages to enable them to participate for three years if they so desire.
- 5. It is recommended that the foreign language program be expanded to include third and fourth years of study in languages now taught with consideration given to the addition of other languages.

6. It is recommended the academically talented students receive added counseling and encouragement to enroll in more mathematics, science, and foreign languages. Convince this select group the optional seventh period offers an opportunity to accomplish such a goal.

LITERATURE CITED

Books

- Bobbit, Franklin. The Curriculum of Modern Education. New York: McGraw-Hill Book Co., 1941.
- Conant, James B. The American High School Today. New York: WoGraw-Hill Book Co., 1959.
- . Education in a Divided World. Massachusetts: Harvard University Press, 1948.
- Bby, Frederick. The Development of Modern Education. New York: Prentice-Hall, Inc., 1952.
- Edmonson, J.B., et al. The Administration of the Modern Secondary School. New York: Macmillan Company, 1948.
- French, Will, Hull, Don J., and Dodds, B.L. American High School Administration. New York: Rinehart and Co., 1957.
- Jacabson, Paul B., Reavis, William C., and Logsdon, James D. The Effective School Principal. New York: Prentice-Hall, Inc., 1954.
- Koos, Leonard V., et al. Administering the Secondary School. New York: American Book Company, 1940.
- Spears, Harold. The Emerging High School Curriculum and Its Direction. New York: American Book Co., 1940.

Articles and Periodicals

- Alexander, A.M. "What Procedures and Techniques Assure Good Schedules for the School and Individual Student," Bulletin of the National Association of Secondary School Principals, ILI (April, 1957).
- Casile, Bruno A. "Study Halls Are A Waste of Valuable Classroom Space," Nation's Schools, LIX (June, 1957).
- Conant, James B. "Some Problems of the American High School," Phi Delta Kappan, NL (November, 1958).
- Cuony, Bheard R. "Longer Periods No Study Halls," Bulletin of the Mational Association of Secondary School Principals, XLII (September, 1958).

- Douglas, Harl R. "Trends in Organisation and Administration of Jun-for High Schools," Bulletin of the Mational Association of Secon-dary School Frincipals, XL (October, 1956).
- "The Modern High School Curriculum," The School Review,
- "Educator's Dispatch," The letter for Administrators, January 12, 1960. Jum 27, 1959.
- Farrer, Kerneth C. "Are Seven Feriods Better?" Utah Educational Review, LII (May, 1959).
- Poster, O.I. "What is the Most Effective Way of Arranging the Length and Use of the Class Fordod?" Bulletin of the National Association of Secondary School Principals, XII (April, 1957).
- Glen, Burvil H. "Length of the High School Day," Bulletin of the Hation-al Association of Secondary School Frincipals, II (October, 1956).
- German, Burton W. "The High School Schoole," The American School Board Journal, CKVI (March, 1953).
- Kalmbach, Lynn R. "The Alternate Day School," The Clearing House, XXIII (April, 1957).
- Kinney, Loe F. "Mart is the Nost Effective way of Arranging the Length and Use of the Class Feriod," Bulletin of the National Association of Secondary School Frincipals, KLII (April, 1958).
- Molaughlin, Sam. "Are LII (May, 1959). "Are Seven Periods Better?" Utah Educational Reviews
- lordgomery, Ray. "1 (April, 1952). "Time for Learning," But Delta Kappun, KKKIII
- National Education Association, Research Division, Trends in City School Organization 1938-1948," Research Bulletin, KXVII (February, 1949).
- Penk, G.L. and Varner, Glenn F. "Let's Look Before We Leap," American School Board Journal, CKKIK (Cotober, 1959).
- Philpot, Frank H. "The Schedule A Barrier or a Boon to a Good Gurriculus," Bulletin of the Mational Association of Secondary School Principals, KLII (October, 1958).
- Robinson, Willard F. "Organization of the Seven Feriod Day," California Journal of Secondary Education, MINTY (January, 1960).

- Trump, Lloyd. "New Directions in Scheduling and Use of Staff in High School," California Journal of Secondary Education, XXX (October, 1958).
- tyman, Raymond. "Full Employment of Teachers and Schools," American School Board Journal, GXXXV (July, 1957).

Unpublished Material

- Bateman, E. Allen. "Adjustment of Education to New Demands." Utah: Department of Public Instruction, 1958. (Missographed.)
- Logen High School Faculty Handbook. (Missographed.)
- Newell, M. Clark, "A Comparison of the Program of the Seven Feriod Day and the Six Period Day in Smaller High Schools of the State of Utah." Unpublished Master's thesis, Department of Educational Administration, Brigham Young University, 1959.
- Statement issued at quarterly meeting of Class A Righ School Principals in state of Utah, February, 1959, at Olympus High School.

Other Sources

Logan High School Latter Day Saint Seminery. Personal Interview with Don Bishop, Principal. February 26, 1960.

APPENDIX

APPERDIX A

Faculty Questionnaire

1	How does the general academic quality of the eight c'eleck student compare with the student in the regular schedule?
	A. Much better B. Scandat better
	C. About the same
	D. Poorer
2.	Now do the eight o'clock students compare with the students in the
	regular schedule relative to class centrol and discipline? A. Far fewer problems
	B. Four problems
	C. About the same
	D. Create nore problems E. Create for more problems
3.	How do the eight o'clock students compare with the nine o'clock
	students relative to the number of tardies?
	A. Former tardies by per cont B. About the same
	C. Nore tardies by per cent
li.	How does the number of absences of the eight o'eleck students con-
	pare with those in the nine o'clock class?
	A. Fewer absences by per cent D. About the same
	C. Nore absences by per cent
5.	The "optional seventh period" presently includes the following
	classes: R.O.T.G., elementary typessiting, church history, miss-
	ionary training, has Testament, orchestra, mechanical drawing, and health and physiology (one semester - only "required" course).
	Considerations for the optional seven period progress for the school
	year 1961-62:
	A. Suggest the program remain unchanged
	D. Suggest the program be expanded by adding the following
	COURTERS I
	C. Suggest the program be reduced by eliminating the following courses:
	D. Other (greet fu)

6. Would you favor a mandatory seven period day at legan ligh School?

Possible schedule:

lot hr.	8:25 9:35	
2nd hr.	9:20	passing time
3rd hr.	10:15	passing time
hth lar.	12:00	passing time
		Junea hour
5th hr.	1:00	
6th hre	2:55	passing time
7th hre	2:50 3:40	passing time

APPENDIX B

LOGAN SENIOR HIGH SCHOOL 162 West, Lat South Logan, Utah

Narch 1, 1960

Dear Parent:

As an instructor at Logan High School and a graduate student at Utah State University, I am conducting a study of the optional seven period day at Logan High. This study is being performed with the approval of the Superintendent and Board of Biucation.

Farents of students enrolled in an eight o'clock class are asked to participate by supplying information relative to the optional or seventh period. Will you, at your earliest convenience, complete the enclosed questionnaire and return in the envelope provided? No identification will be made of individual students or families.

Your cooperation and prompt reply will be greatly appreciated.

Sincerely,

Boyd Applegarth Logan High School 162 West, 1st South Logan, Utah

APPENDIX C

Perent Questionnaire

A. Provented employment B. Nade employment difficult C. Did not affect employment D. Nade employment more available E. Greated or insured him of a job L. Mas the student's employment in an eight o'clock class initia A. You the purent B. The student C. The school faculty or administration D. Other (specify) 5. How has the eight o'clock class affected your son's/taughter' other studies in relation to time and effort spent on homeson A. Made much more difficult B. Nade much more difficult C. Remained the same D. Made casior E. Made much casior E. Made much casior	1.	Has your son's/daughter's participation in an eight o'clock class resulted in problems relative to the time schedule at home? A. Has created some problems B. Has created some problems C. Has created no problems D. Has helped the schedule E. Has greatly helped the schedule
for part-time employment A. Frewented employment B. Nade employment difficult C. Nid not affect employment D. Made employment more available E. Greated or insured him of a job L. Was the student's empliment in an eight o'clock class initia A. You the parent B. The student C. The school faculty or administration D. Other (specify) 5. How has the eight o'clock class affected your son's/daughter' other studies in relation to time and effort spent on homeson A. Made much more difficult G. Remained the same D. Made caster E. Made much saster 6. Has the student been less able to participate in non-school activities such as church, family activities, and etc. becaus of his eight o'clock class? A. Consistently B. Cocasionally C. Has created no problems D. Has increased participation	2.	transportation to school? A. Consistently B. Consistently C. Has created no problems
A. You the parent B. The student C. The school faculty or administration D. Other (specify) 5. How has the eight o'clock class affected your son's/daminter' other studies in relation to time and effort spent on homeor A. Made much more difficult D. Made more difficult G. Ramained the same D. Made much easier E. Made much easier 6. Has the student been less able to participate in non-school activities such as church, family activities, and etc. because of his eight e'clock class? A. Consistently B. Occasionally G. Has increased participation	3.	A. Provented employment B. Nade employment difficult C. Did not affect employment D. Nade employment more available
other studies in relation to time and effort spent on homeon A. Finds much more difficult D. Made more difficult G. Remained the same D. Made caster E. Made much coaler 6. Has the student been less able to participate in non-school activities such as church, family activities, and etc. because of his eight o'clock class? A. Consistently B. Coccasionally C. Has crosted no problems D. Has increased participation	h.	B. The student C. The school faculty or administration
activities such as church, fordly activities, and etc. because of his eight o'clock class? A. Consistently B. Coessionally C. Has created no problems D. Has increased participation	5.	other studies in relation to time and effort spent on homosek? A. Nade much more difficult D. Nade more difficult G. Remained the same D. Nade casion
	6.	activities such as church, family activities, and etc. because of his eight o'clock class? A. Consistently B. Occasionally C. Has created no problems D. Has increased participation

7. The following courses are currently offered at eight o'clocks R.O.T.C., elementary typouriting, health and physiology (one somester - only "required" course offered), church history, missionary training, New Testament, mechanical drawing, and orchestra.

Considerations for the optional seventh period program for the school year 1961-62:

- A. Suggest the program remain unchanged
- B. Suggest the program be expanded by adding the following courses:
- C. Suggest the program be reduced by eliminating the following courses:
 - De Other (specify)
- 8. Would you favor a mandatory seven period day at logan High School?
 Yes 10 (It is not anticipated that graduation requirements would be increased if the logan City School District favore a mandatory seven period day.)

Fossible schedule:

Let har.	8:25		lunch hour	12:00	
2nd hr.	9:20	passing	5th hr.	1:00	passing time
3rd hre	20:25 22:05	passing	6th hre	1:55	passing time
hth hre	12:10	passing	7th hre	2:50 3:40	passing time

APPENDEX D

Student Questionnaire

1.	Orado level. A. Sophonore B. Junior C. Senior C. Senior C. Senior
3.	A. Heeded the credit to graduate B. Opportunity to take an elective C. Encouragement from home , from the faculty or from friends D. To help propare for college E. Only time the course was offered F. Other (specify)
4.	Did you emrell in the eight o'clock class so you could take another class during the regular day's schedule? You No which other class are you able to take because of participation in the optional seventh period?
5.	How has the eight e-clock class affected your participation in extraourricular activities? A. Nore active C. About the same D. Less active E. Far less active
6.	New has the eight o'clock class affected your other studies in relation to time and effort spont on homework? A. Nade much more difficult B. Nade more difficult C. Ressired the same D. Nade Easier B. Nade much easier
7.	How has the eight o'clock class affected your opportunity for part-time employment? A. Provented employment B. Made employment difficult C. Did not affect employment D. Nade employment more available E. Created or insured me of a job
8.	Does your present schedule include a study hall? Yes No
9.	If "yes" in number eight, how frequent is the study hall? Daily Alternate days

30.	per	you em lod? Ye	olled in	soven d	olesses If	including how	ng ti mang	ne opti 7 class	onal :	90 Ve2	nth
n.	tho	se requi	rod, whi	ch one	would yo	ou drop?	01	no clas	o, em	oludi	ing
22.	Logi	you re in High a junior	gistered School?	for an Yes	edght (*clock c	las: s a	in ot	her you	0 60710	at
13.	com	ld you r rees at mily.	eight o	logan clock?	Mes	nool offe	e a	szidor	selec	tion	of
M.			avor a m		y seven	period d	loy s	t logs	n High	n Sol	10017
				Pogs	lble set	edule:					
let	hr.	8:25 9:15				lunch hou		12:00			
2nd	læ.	9:20	passing			5th hr	•	1:00	pacs		
3rd	he.	10:15 11:05	passing			6th hr		1:55 2:45	passi		
Lith	hr.	11:10				7th hr	•	2:50			

APPENDIX E Gredits earned by 36 eight o'clock sophonore students

Mo. of sta		Credit earned	Class in each class	
<u>#4</u>	h	1.5	Pasic Area 10	.5
Business Education Area Bookkseping Business Machines Elementary Shorthand Elementary Typewriting Advanced Typewriting	5 33	5 16.5	Chauntaires General Music 1 Olso, Girls 19 Gloe, Boys 1 Orchestra 8	4.75 25 25
Office Practice Bookkeeping 1A Homewaking Area			Hotany to Chamistry Constics	2
Advanced Clothing Advanced Foods Romanicing	11	5.5	Physics Physiology Zoology 1	-5
Industrial Arts Area Anto Pechanics Advanced Auto	8	2	American History 7 American Problems Citizenship and	7
Radio General Notals Rechanical Drawing Elementary Woodwork	8 2 1	2 .5 .25	Government Reconomics Psychology Secial Living World History 9	9
Advanced Voodwork Language Arts Area	36	36	Physical Diuestion	
Inglish 12A Pronch I Fronch II	4 2	4 2	Athletics 1 P.E. Boys 13 P.E. Cirls 22	3.25 5.5
Journalism Spanish I Basic Speech Public Speaking	i i	ì	R.O.T.C. Area R.O.T.C. 13	6.5
Interpretive Speech			Driver Education Library 7	0
Advanced Algebra Consumer Hathematics Flanc Geometry Solid Geometry	11 7 15	15	Serinary New Testament 30 Church History Missionary Training	30
Trigonometry Total	152	113.25	115	72.0

APPENDIX F

Credits earned by 36 mine o'clock sophonore students

Class in each of		Credit earned	Class in each o		Credit earned
<u>Arb</u>	4	1.5	Music Area Band	3	1.5
Business Education Area Business Machines Elementary Shorthand	33	13	Chauntaires General Music Clee, Cirls Clee, Boys	2 13	3.25
Elementary Typouriting Advanced Typouriting Office Practice Booldsceping 1A	29	11.5	Crebestra Science Area Botany	1	.5
Homemaking Area Clothing Advanced Glothing Advanced Foods			Chemistry Genetics Physics Physiology Zoology	1	.5
floromalding	4	2	Social Studies Area		
Industrial Arts Area Auto Nechanics Advanced Auto	30	2.5	American History American Problems Citisenship and	1	1
Radio General Netals Nochanical Drawing	3	.75	Covernment Economics Psychology Social Living		
Elementary Woodsoric Advanced Woodsoric	4	1	Horld History		
Language Arts Area English English 12A French I	36 2 2	36 2 2	Athletics P.E. Boys P.E. Cirls	10 16	14.5 14.5
Journalism Spanish I Basic Speech Public Speaking	333	3	R.O.T.C. Area R.O.T.C. Sponsors	13	6.5
Interpretive Speech Mathematics Area Elementary Algebra Advanced Algebra	12	12	Driver Bluestion Library	30	0
Consumer Nathematics Flame Geometry Solid Geometry Trigonometry	11	n	How Testament Church History Pissionary Trainin	THE SE	30
notal	THE	115.50		115	59.25

APPENDIX 0

Credite earned by 50 eight o'clock junior students

Class in each		CONTRACTOR OF THE PARTY OF THE	Class in each class		Committee of the Commit
<u> </u>	1	425	Mosic Area Band	4	2
Business Education Area Bookseeping	3	3	Chauntaires General Husic	1	.5
Rusiness Machines Elementary Shorthand	18	18	Glee, Cirls Olee, Boys	2	.25
Advanced Shorthand Elementary Typewriting Advanced Typewriting	5 8	2.5	Orchestra Setema Arms	7	1.75
Office Practice Bookkeeping 14	ĭ	.5	Science Area Notary Chemistry	2	23
Homemolding Area Clothing				3	1.5 21 8.5
Advanced Clothing Advanced Foods	1	-25	Zoology	5	1
Homomoleling	5	2.5	Social Studies Area	5	bş.
Auto Rechances Advanced Auto	,	.5	American Problems Citizenship and Government	4	•
Redio	2	.5	Reconcides Psychology		
Nechanical Brazing Elementary Woodwork	5	5.25	Social Living World History		
Advanced Woodworle			Hysical Education		
Longuage Arts Area English	50	50	Athletics P.E. Boys	6	3 2
English 12A Pronch I Premon II			P.E. Cirls Sports	3	3*75
Journalism Spanish I	2	2 25		6	8
Basic Speaking Public Speaking Interpretive Speech	5	2	Sponsors Hiscollaneous	9	2.25
Mathematics Area Elementary Algebra			Driver Education	3	0
Advanced Algebra Consumer Mathematics	25 1 2	15	Serdinary New Testament	•	
Flame Geometry Solid Geometry	2	5		8	38
Trigonometry Total	775 6	09.75			TEN TO
1004	1100 7	M7412		4	168.00

APPENDIX H

Credits earned by 50 mine o'clock juntor students

	of students each class	Credit earned	No. of students Class in each class	
ATS	3	1	Music Area	2
Business Bineation Bookkeeping Business Machines Elementary Shorth Advanced Shorthan	and 18	2 18	Chauntaires General Music Glee, Girls 7 Glee, Boys Orchestra	1.75
Elementary Typese Advanced Typeserit Office Practice Bookseping 1A Hommalding Area	dting	1.5	Science Area Botany li Guendstry 20 Genetics li	2 20 2 2 22
Advanced Clothing			Physiology 12 Zoology 5	6
Industrial Arts Are	• • • •	.5	American History L6 American Problems L Citizenship and	16 1
Advanced Auto Hechanics Radio General Hetals Hechanical Drawin	3	1.5 .75 .25	Government Boonordes Psychology Social Living World History	
Elementary Roodson Advanced Roodson's	rk 1	.25 .5	Physical Discation	
English 12A Prench I French II	50	50	Athletics 3 P.E. Boys 6 P.E. Cirls 8 Sports 5	1.5 1.5 2 2.5
Spanish I Basic Speech Public Speech	1 2	2.25	R.O.T.C. Aron R.O.T.C. 12 Sponsors 6	6 2.5
Interpretive Spee		5	Driver Ameation Library 20	0
Elementary Algebra Advanced Algebra Consumer Hathemat Flame Geometry Solid Geometry Trigonometry	a 5 los 2 5	Son	Sectionsy New Testament 3 Church History 33 History Training	3 33
Total	121	106,50	22)	160.25

APPRIDIX I

Credite earned by 50 eight o'clock senior students

Gase in each		Credit earned	Glass in each class	Gredit parned
400	5	2,5	Nusic Area Band 8	
Business Education Area Bookseeping Business Machines Elementary Shorthand Advanced Shorthand Elementary Typeswiting	13 3 10 3	3.25 30 1.5 5	Chauntaires Ceneral Music h Clee, Girls Clee, Boys h Crohestra 5	1 1 1,5
Advanced Typesriting Office Practice Bookkeeping 1A Homemaking Area Glothing	20	•	Botany 6 Chardstry 12 Constics 13 Physics 11 Physicley 43	3 12 6.5 11 21.5
Advanced Clothing Advanced Foods Homemaking Industrial Arts Area Auto Rechanges	3	1 1.5 1.5	Social Studies Area American History 1 American Problems 5	1.5
Radio General Metals Hechanical Drawing	1 2 3	2 1.25 1.5	Gitisenship and Government 7 Economics 20 Feychology 35 Godial living 30 World Eletory 3	3.5 10 17.5 15
Elementary Woodwork Advanced Woodwork Language Arts Area English English 124	2 50	1 50	Area Athletics 7 P.E. Boys 6	3.5
Prench II Prench II Journalism Spanish I Busic Speech	2222	2 2 2 2 3 3	P.S. Girls 7 Sports 7 R.O.T.C. Area E.O.T.C. 16	1.75 3.5
Public Speaking Interpretive Speech	Nan .	2 2	Sponsors 6 Miscellansous Driver Education Library 29	1.5
Mathematics Area Elementary Algebra Advanced Algebra Consumer Nathematics Flame Geometry Solid Geometry Trigonometry	2 2 9 8	4 2 4.5	Seminary How Testament Church History & Hissionary Training2h	24.
Notal	168	122.75	300	165.50

APPENDIX J

Credits earned by 50 mine o'clock senior students

Class in each		Credit earned	No. of students Credit
<u>m</u>	5	2	Nusto Area
Business Education Area Bookseeping Business Machines Elementary Shorthand Advanced Shorthand	20 6 2 7 2 9	10 1.5 2	Hand 1 .5 Chauntaires General Music 2 .5 Clee, Cirls 6 1.5 Clee, Boys 2 .5 Carchestra
Elementary Typewriting Advanced Typewriting Office Practice Bookseping 1A Homemaking Area	3	1.5	Science Area Notany 10 5 Chemistry 1h 1h Constics 17 8.5 Physics 13 13 Physiclogy 10 20
Clothing Advanced Clothing Advanced Foods Homemaking	3 22 6	.75 3.5	Social Studies Area American Matery 5 5
Auto Pochenice			American Problems & L Citisenship and 8 L
Advanced Auto Flochanics Radio General Netals Mechanical Drawing Elementary Woodsoric Advanced Moodsoric	2 1 1 1	.5 2 .25 .5	Government Economics 13 6.5 Psychology 30 15 Social Living 36 18 World History Physical Education
Language Arts Area English 12A French I French II	19	19 .5	Athletice ? 3.5 P.E. Boys 5 1.25 P.E. Girls 4 1 Sports 8 4
Journalism Spanish I Basic Speech Public Speaking Interpretive Speech	1 4 2 1	.25 4 2 1	R.O.T.C. 9 4.5 Sponsors 2 .5 Miscellaneous
Hathematics Area Elementary Algebra Advanced Algebra Consumer Hathematics	b 3	<u>h</u> 3	Driver Education Library 27 0 Sections Res Tostement
Plane Geometry Solid Geometry Trigonometry	75	3.5 2.5	Church History h h Missionary Training
2otal	III	108.75	219 130.25