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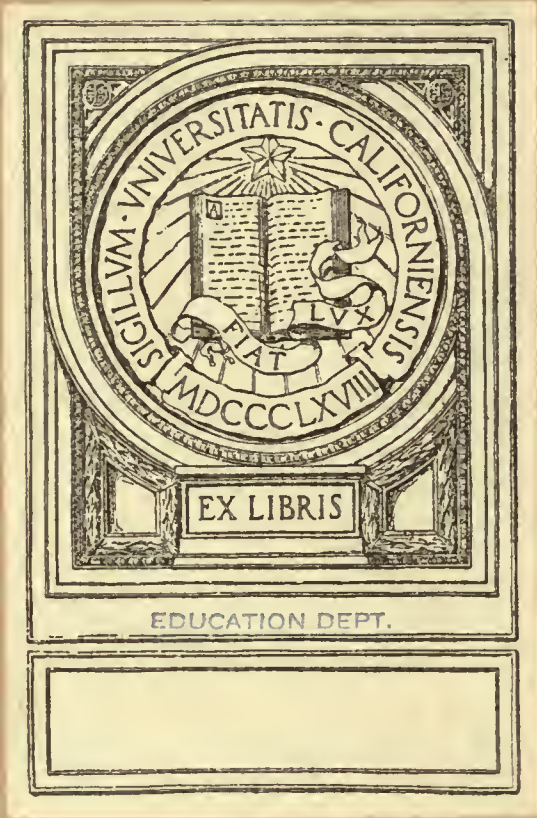
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THE STATE OF NEW YORK

IN SENATE

January 11, 1910

REPORT

OF THE

COMMISSIONERS OF THE LAND OFFICE

IN RESPONSE TO A RESOLUTION

PASSED

APRIL 1, 1899

AND

APRIL 1, 1909

AND

APRIL 1, 1910

The Use of the High School Plant: a Study
of the East Bay High Schools

By

Homer Henry Cornick

A.B. 1920

THESIS

Submitted in partial satisfaction of the requirements for the degree of
MASTER OF ARTS

in

Education

in the

GRADUATE DIVISION

of the

UNIVERSITY OF CALIFORNIA

May 1922

Approved F. W. HART
Instructor in Charge

LB6

C818

STATE OF TEXAS, COUNTY OF DALLAS, DISTRICT OF CANTON

WILLIAM W. WALKER, Plaintiff

vs.

EDUCATION DEPT.

et al.

EDUCATION DEPT.

et al.

THE STATE OF TEXAS, COUNTY OF DALLAS, DISTRICT OF CANTON

WILLIAM W. WALKER

vs.

EDUCATION DEPT.

et al.

EDUCATION DEPT.

et al.

EDUCATION DEPT.

It has been generally understood that the recent increase in the school enrollment in the East Bay cities has resulted in a more or less serious overcrowding in the high schools of those cities. However, this fact has largely been taken for granted, since no definite information as to the degree of overcrowding has been available. No objective standards have been applied to measurement of the percentage of use of available facilities made by the high schools. Moreover, no attempt has been made to discover whether there may not be causes for such overcrowding, as may exist, other than simply that of the increase in enrollment.

Purpose of the Study

This study was made for the purpose of determining specifically the percentage of actual use of the various groups of rooms that comprise a high school plant, and to determine, if possible, some of the causes, other than the increase in school enrollment, contributing to such overcrowded conditions as may be found to exist. The schools chosen were as follows: Alameda High School, Berkeley High School, Fremont High School, Oakland High School, Piedmont High School, and Technical High School and University High School of Oakland.

The following is a list of the names of the persons who have been elected to the office of Justice of the Peace for the year 1892. The names are given in alphabetical order of their surnames. The names of the persons who have been elected to the office of Justice of the Peace for the year 1892 are: [illegible text]

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[illegible text]

The Method Used in Measuring the Percentage of Use

In order to determine the percentage of use of the available facilities of these high schools, tabulations were made showing for each room in each of these plants: (1), the size of the room; (2), the capacity in terms of standard requirements, where such are established; (3), the number of seats or student accommodations actually in the room; and (4), the number of students occupying the room at each period of the day. Since the great majority of high school subjects are scheduled for the same periods each day of the week, the program for any one day is sufficient for the purpose of this study. In the few cases where the subject was not given every day of the week, the weekly total was obtained and divided by five, in order to determine the average number of students using the room per day. Floor areas were taken by actual measurement, seatings were taken by actual count or from office records, and the number of pupils for each period was taken from the office records for the Spring Term, 1922.

The facts are therefore as reliable as the information recorded in the various principals' offices, and may be considered accurate enough for all practical purposes. As the progress of the students are constantly changing, it is of course impossible to determine the period enrollment for each day in the term. However the data

The first part of the document discusses the importance of maintaining accurate records of all transactions. It emphasizes that proper record-keeping is essential for the success of any business and for the protection of the interests of all parties involved. The document then goes on to describe the various methods and procedures that should be used to ensure the accuracy and reliability of the records. It also discusses the importance of regular audits and the role of the auditor in verifying the accuracy of the records. The document concludes by stating that the proper maintenance of records is a fundamental responsibility of every business owner and manager.

from the various schools was compiled after the Spring Term was well under way and may be considered as representing an average day throughout the term.

Basis of Computing Various Measures

In computing the percentage of use of any single room, in order that each school might be fairly judged, the basis taken for each school was the number of periods per day in each school.

Computing Percentage of Use

As an illustration of the method of calculating the percentage of use of the various rooms, let us consider the case of room 21, Alameda High School. The original tabulation sheet shows this room to have an area of 737 square feet, sufficient to accommodate 49 students at 15 square feet per student.² It actually provides seats for 48. Out of a possible use of nine periods the room is used for eight periods. Eight-ninths equals .88 or 88 per cent use in terms of the room being occupied regardless of the size of the class involved. The tabulation further shows that, with the possibility

Strayer, G. D., and Englehardt, H. L., Bulletin of Standards for City School Buildings, Bureau of Publications, Teachers College, Columbia University, N. Y. C.

The first part of the document is a letter from the Secretary of the State Department to the Secretary of the War Department, dated August 10, 1918. The letter discusses the need for a more efficient system of handling military claims and the proposed changes to the existing system.

REPORT OF THE SECRETARY OF THE STATE DEPARTMENT

The Secretary of the State Department has the honor to acknowledge the receipt of your letter of August 10, 1918, regarding the proposed changes to the system of handling military claims. The proposed changes are being carefully considered and will be reported to you as soon as a final decision has been reached.

REPORT OF THE SECRETARY OF THE WAR DEPARTMENT

The Secretary of the War Department has the honor to acknowledge the receipt of your letter of August 10, 1918, regarding the proposed changes to the system of handling military claims. The proposed changes are being carefully considered and will be reported to you as soon as a final decision has been reached. The War Department is currently reviewing the proposed changes and will report to the Secretary of the State Department as soon as a final decision has been reached.

Very truly yours,
Secretary of the State Department

of seating 48 pupils each period for nine periods, or a total of 432, room 21 actually seats 233 per day. Then $233/432$.54 or 54 per cent of use in terms of seats actually provided. Applying the same principle, using the maximum capacity of the room according to standard, or 49 instead of 48, we get $233/9 \times 49$.53 or 53 per cent of use in terms of maximum possible use. These data are presented in condensed form in Table I-A for the Alameda High School, and show Room 21 to have an actual capacity of 48, a possible capacity of 49, a percent of use of available area of 53, a percent of use of seats provided of 54, and a percent of use in terms of periods occupied of 68.

Classification of Rooms

In presenting the data in tabular form, the rooms were grouped as nearly as possible upon the basis of the functions served. Recitation rooms were considered as a group; while all other rooms were considered as a second group and listed under the headings descriptive of their use, as laboratories, shops, etc.; or as individual rooms when they could not be included within one of these groups. In many cases the particular use to which the room is devoted is attached to the number of the room.

Arrangement of Tables

The facts concerning the percentage of use of the available areas and accommodations, are presented in separate tables for each school. These tables are as follow:

1. Table I, presenting data on Classroom Group.
2. Table II, giving a Frequency Distribution for Table I.
3. Table III, presenting data for Special Rooms, or rooms other than classrooms.
4. Table IV, giving a Frequency Distribution for Table III.

In order to simplify the method of presentation, the tables for each school bear a letter signifying the name of the school for which the table is constructed. For example, Table I-A presents the data on the classroom group of the Alameda High School. Table II-A gives the frequency distribution for Table I-A, Table III-A presents the data for the special rooms of the Alameda High School, while Table IV-A gives the frequency distribution for Table III-A.

The various schools are designated by letter as follows:

- (1) A - Alameda High School
- (2) B - Berkeley High School
- (3) F - Fremont High School
- (4) O - Oakland High School
- (5) P - Piedmont High School

MEMORANDUM FOR THE RECORD

The following information was obtained from the records of the Department of the Interior, Bureau of Land Management, on the subject of the land in question.

On the 15th day of March, 1900, the land in question was surveyed and the survey was approved by the Commissioner of the General Land Office.

The land in question was then patented to the United States and the title was vested in the United States. The land was then surveyed and the survey was approved by the Commissioner of the General Land Office. The land was then patented to the United States and the title was vested in the United States. The land was then surveyed and the survey was approved by the Commissioner of the General Land Office. The land was then patented to the United States and the title was vested in the United States.

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- 4. The land was then patented to the United States and the title was vested in the United States.
- 5. The land was then surveyed and the survey was approved by the Commissioner of the General Land Office.

(6) T - Technical High School

(7) U - University High School

Alameda High School

Table I-A shows 16 classrooms with seating capacities and percentage of use over a nine period day, (computed on available area), seats occupied, and room occupied. For example, Room 21 is working up to 53 per cent of its capacity in terms of available area, 54 per cent in terms of seats occupied throughout the day, and 86 per cent in terms of the room being occupied. Similar facts are shown for each of the other rooms. At the bottom of the table are found the total number of seats possible, (based on the Strayer-Englehardt standard), and the total number of seats provided, as well as the average percentage of use of the group of classrooms. This average percentage indicates that the Alameda High School uses 52 per cent of its possible classroom area, 61 per cent of the seats provided, and 75.8 per cent, practically 76 per cent, in terms of time the rooms are occupied.

Table II-A shows the number of rooms falling within each percentage interval of 10 from 0 to 100 for each basis of calculation, and reads thus: In terms of the three bases for judgment no rooms are working under 10 per cent; in terms of seats occupied,

Journal of the American Medical Association - 1914

Volume 54, Number 1, January 1914

Original Articles

The following articles are published in this issue:

1. The Treatment of Tuberculosis in the United States - J. H. Tamm

2. The Pathology of the Heart in the United States - J. H. Tamm

3. The Pathology of the Lungs in the United States - J. H. Tamm

4. The Pathology of the Kidneys in the United States - J. H. Tamm

5. The Pathology of the Liver in the United States - J. H. Tamm

6. The Pathology of the Spleen in the United States - J. H. Tamm

7. The Pathology of the Pancreas in the United States - J. H. Tamm

8. The Pathology of the Gallbladder in the United States - J. H. Tamm

9. The Pathology of the Intestines in the United States - J. H. Tamm

10. The Pathology of the Stomach in the United States - J. H. Tamm

11. The Pathology of the Esophagus in the United States - J. H. Tamm

12. The Pathology of the Trachea and Bronchi in the United States - J. H. Tamm

13. The Pathology of the Larynx in the United States - J. H. Tamm

14. The Pathology of the Pharynx in the United States - J. H. Tamm

15. The Pathology of the Nasopharynx in the United States - J. H. Tamm

16. The Pathology of the Oropharynx in the United States - J. H. Tamm

17. The Pathology of the Laryngopharynx in the United States - J. H. Tamm

18. The Pathology of the Esophagopharynx in the United States - J. H. Tamm

19. The Pathology of the Tracheopharynx in the United States - J. H. Tamm

20. The Pathology of the Bronchopharynx in the United States - J. H. Tamm

none under 20 per cent; in terms of room occupied, none are working under 30 per cent, and only one under 70 per cent. The significant fact in this table is that the majority of rooms are working over 50 per cent in use of available area, in use of seats, and over 80 per cent in use of periods occupied.

In terms of seats occupied the majority of cases range around 50 per cent, while in terms of room occupied (Column 3) the majority of cases fall between 60 and 100 per cent. While the percentage of use of special rooms, as shown by the Frequency Distribution of Table III-A, is not as high as that of the classrooms as shown by the Frequency Distribution of Table II-A, nevertheless it is worthy of note that the average percentage of use is above 50 per cent. It is well to keep in mind the fact that 100 per cent use means using every seat or student accommodation for each period of the day, a situation hardly possible in view of the fact that the student selects his course arbitrarily and is not assigned to subjects in order to keep each seat occupied all the time.

Table III-A gives the same kind of data concerning laboratories, shops, commercial rooms, drawing rooms, and miscellaneous special rooms that Table I gives for classrooms; except that in Column 1 capacity is given in square feet and not reduced to student accommodation. This is due to the fact that no standards are

The first part of the report deals with the general situation of the country and the progress of the war. It is followed by a detailed account of the military operations in the various theatres of war. The author then discusses the political and economic conditions of the belligerent nations, and finally offers his own views on the probable outcome of the conflict.

The second part of the report is devoted to a critical examination of the military and naval strategies employed by the different powers. It points out the strengths and weaknesses of each side, and suggests possible improvements. The author also discusses the role of the press and public opinion in the conduct of the war.

The third part of the report contains a series of statistical tables and maps, which are intended to provide a more concrete basis for the author's conclusions. These tables deal with the military strength of the various nations, the production of war materials, and the economic resources of each side. The maps show the progress of the front lines and the positions of the major armies and navies.

The fourth and final part of the report is a summary of the author's findings and a forecast of the future course of the war. He concludes that the war is likely to continue for some time longer, and that the ultimate outcome will depend on the ability of the different powers to sustain their efforts over the long term.

available for these various types of rooms. The areas do not figure in per cent under Column 3 because of this fact. Wherever several special rooms used for a similar purpose are listed they are grouped under a common head and the average per cent of use on the three bases determined. Of these groups the drawing rooms stand highest.

Table IV-A gives the Frequency Distribution for Table III-A.

Room Type	Area (sq. ft.)	Frequency	Percentage
Drawing Rooms			
Living Rooms			
Dining Rooms			
Kitchens			
Bathrooms			
Bedrooms			
Hallways			
Stairways			
Porches			
Garages			
Other			

The first part of the report is devoted to a description of the
 methods used in the investigation. The second part contains the
 results of the experiments and a discussion of the factors which
 influence the rate of reaction. The third part is a summary of
 the work done during the course of the investigation.

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 influence the rate of reaction. The third part is a summary of
 the work done during the course of the investigation.

TABLE I-A

SIXTEEN HECTARE SCHOOL OF THE ATAMEDA HIGH SCHOOL
 SHOWING: (1) CLASSIFICATION OF EACH ROOM ON AVAILABLE AREA,
 (2) CAPACITY FIGURED ON SEATS PROVIDED, (3) PERCENTAGE
 OF USE FIGURED IN (a) AREA, (b) SEATS, (c) ROOM OCCUPIED

Room Number	Classification		(3) Percentage of Use in terms of		
	(1) Figured on Area	(2) Figured on Seats	(a) Available area	(b) Occupied seats	(c) Room occupied
21	49	45	55	54	80
22	45	39	66	75	100
23	58	54	43	47	88
24	24	18	17	25	33
25	45	38	70	79	100
26	46	44	47	49	88
27	49	39	59	70	100
16	46	40	66	76	100
17	50	39	56	70	88
14'	49	45	54	57	88
3	54	46	29	35	66
45	44	34	16	27	80
42	44	32	80	70	88
50	44	32	67	65	89
45	47	41	40	46	77
52	31	35	63	57	77
Total	754	623	Av. 52	Av. 61	Av. 71.8

TABLE

STATE OF NEW YORK
IN SENATE
January 15, 1908

No.	Name	Age	Profession	Residence	Party
1
2
3
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99
100

TABLE II-A

FREQUENCY DISTRIBUTION SHOWING NUMBER OF CLASSROOMS AT EACH INTERVAL FOR EACH OF THE THREE BASES OF COMPUTING PERCENTAGE OF USE.

	1	2	3	4
Interval:	No. of rooms	No. of rooms	No. of rooms	No. of rooms
: 0-10%	: 0	: 0	: 0	: 0
: 11-20	: 1	: 0	: 0	: 0
: 21-30	: 1	: 1	: 0	: 0
: 31-40	: 1	: 1	: 1	: 1
: 41-50	: 3	: 3	: 0	: 0
: 51-60	: 5	: 3	: 0	: 0
: 61-70	: 5	: 2	: 1	: 1
: 71-80	: 0	: 5	: 2	: 2
: 81-90	: 0	: 1	: 6	: 6
: 91-100	: 0	: 0	: 4	: 4

1917-1918

STATE OF NEW YORK
OFFICE OF THE COMMISSIONER OF EDUCATION
ALBANY, N. Y.

No.	Name	Age	Sex	Color	Religion	Occupation	Address
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

TABLE III-A
 SEVENTH-SPECIAL ROOMS SHOWING:
 (1) AREA IN SQUARE FEET, (2) CAPACITY FIGURED ON
 STUDENT ACCOMMODATIONS ACTUALLY PROVIDED, (3),
 PERCENTAGE OF USE FIGURED ON (a) STUDENT PROVISION,
 (b) ROOMS OCCUPIED

Room No.-Use	Capacity		(3) Percentage of Use in terms of	
	(1) Area in sq. ft.	(2) Seats prov.	(a) Student Provision	(b) Room Occupied
Laboratories:				
3 Physics	1092	33	57	44
1 Chemistry	638	27	50	50
46 Biology	925	54	32	66
		T. 114	Av. 46%	Av. 53%
Shop				
51 Man. Tr.	1666	24	50	44
53 Forge	1178	16	44	47
57 Auto	3000	30	42	77
		T. 70	Av. 45.3%	Av. 56%
Commercial				
12 Book'g.	610	27	60	66
13 "	841	36	86	88
11 Typ.	737	56	77	100
4 "	374	15	43	55
4A Office	154	10	38	44
Prac.		T. 144	Av. 61%	Av. 52.6%
Drawing				
31 Mech.	1134	24	87	88
44 Com. Art	925	19	51	77
		T. 43	Av. 69%	82.5%
17 Sewing	737	30	46	66
54 Music	665	54	30	66
Library (as study)	750	40	55	77
Study Hall	2280	143	84	100

1941-42
 STATE OF TEXAS
 DEPARTMENT OF AGRICULTURE
 ANNUAL REPORT
 FOR THE YEAR 1941-42
 PART II
 CATTLE AND HORSE RAISING

CATTLE		HORSES		TOTAL	
(1)	(2)	(3)	(4)	(5)	(6)
Number of head	Value	Number of head	Value	Number of head	Value
1,000	100,000	1,000	100,000	2,000	200,000
2,000	200,000	2,000	200,000	4,000	400,000
3,000	300,000	3,000	300,000	6,000	600,000
4,000	400,000	4,000	400,000	8,000	800,000
5,000	500,000	5,000	500,000	10,000	1,000,000
6,000	600,000	6,000	600,000	12,000	1,200,000
7,000	700,000	7,000	700,000	14,000	1,400,000
8,000	800,000	8,000	800,000	16,000	1,600,000
9,000	900,000	9,000	900,000	18,000	1,800,000
10,000	1,000,000	10,000	1,000,000	20,000	2,000,000
11,000	1,100,000	11,000	1,100,000	22,000	2,200,000
12,000	1,200,000	12,000	1,200,000	24,000	2,400,000
13,000	1,300,000	13,000	1,300,000	26,000	2,600,000
14,000	1,400,000	14,000	1,400,000	28,000	2,800,000
15,000	1,500,000	15,000	1,500,000	30,000	3,000,000
16,000	1,600,000	16,000	1,600,000	32,000	3,200,000
17,000	1,700,000	17,000	1,700,000	34,000	3,400,000
18,000	1,800,000	18,000	1,800,000	36,000	3,600,000
19,000	1,900,000	19,000	1,900,000	38,000	3,800,000
20,000	2,000,000	20,000	2,000,000	40,000	4,000,000
21,000	2,100,000	21,000	2,100,000	42,000	4,200,000
22,000	2,200,000	22,000	2,200,000	44,000	4,400,000
23,000	2,300,000	23,000	2,300,000	46,000	4,600,000
24,000	2,400,000	24,000	2,400,000	48,000	4,800,000
25,000	2,500,000	25,000	2,500,000	50,000	5,000,000
26,000	2,600,000	26,000	2,600,000	52,000	5,200,000
27,000	2,700,000	27,000	2,700,000	54,000	5,400,000
28,000	2,800,000	28,000	2,800,000	56,000	5,600,000
29,000	2,900,000	29,000	2,900,000	58,000	5,800,000
30,000	3,000,000	30,000	3,000,000	60,000	6,000,000
31,000	3,100,000	31,000	3,100,000	62,000	6,200,000
32,000	3,200,000	32,000	3,200,000	64,000	6,400,000
33,000	3,300,000	33,000	3,300,000	66,000	6,600,000
34,000	3,400,000	34,000	3,400,000	68,000	6,800,000
35,000	3,500,000	35,000	3,500,000	70,000	7,000,000
36,000	3,600,000	36,000	3,600,000	72,000	7,200,000
37,000	3,700,000	37,000	3,700,000	74,000	7,400,000
38,000	3,800,000	38,000	3,800,000	76,000	7,600,000
39,000	3,900,000	39,000	3,900,000	78,000	7,800,000
40,000	4,000,000	40,000	4,000,000	80,000	8,000,000
41,000	4,100,000	41,000	4,100,000	82,000	8,200,000
42,000	4,200,000	42,000	4,200,000	84,000	8,400,000
43,000	4,300,000	43,000	4,300,000	86,000	8,600,000
44,000	4,400,000	44,000	4,400,000	88,000	8,800,000
45,000	4,500,000	45,000	4,500,000	90,000	9,000,000
46,000	4,600,000	46,000	4,600,000	92,000	9,200,000
47,000	4,700,000	47,000	4,700,000	94,000	9,400,000
48,000	4,800,000	48,000	4,800,000	96,000	9,600,000
49,000	4,900,000	49,000	4,900,000	98,000	9,800,000
50,000	5,000,000	50,000	5,000,000	100,000	10,000,000

TABLE IV-A

FREQUENCY DISTRIBUTION SHOWING NUMBER OF SPECIAL ROOMS AT EACH INTERVAL FOR EACH OF THE TWO BASES OF COMPUTING PERCENTAGE OF USE

Interval	1	2	3
0-10%	0	0	0
11-20	0	0	0
21-30	1	0	0
31-40	2	0	0
41-50	6	5	0
51-60	4	1	1
61-70	0	4	1
71-80	1	3	1
81-90	3	2	1
91-100	0	1	2

BERKELEY HIGH SCHOOL

Table I-B indicates the per cent of use of each of 27 classrooms of the Berkeley High School. Almost all of these rooms are located in the new building recently completed and should be up to standard in every way. However, the table indicates that, in 21 of the 27 rooms tabulated, there are too many seats for the floor area of the rooms. The range of seats in excess of the standard allowance is from three to 31. It would seem that such overcrowding would lessen the efficiency of these rooms. The surplus seats cause the percentage of use of the available area to exceed 100 in several cases. The averages at the bottom of the table indicate that the new rooms of the Berkeley High School are being used up to 90% of maximum possible use, 70% in terms of seats occupied, and 85% in terms of periods the room is occupied. These facts are emphasized in Table II-B which gives the frequency distribution for Table I-B. Practically all of the cases fall between 50 and 100 per cent. In the percentage of use of available area 7 rooms are shown to be over 100 per cent.

Table III-B shows the percentage of use of 20 special rooms, giving the area in square feet, capacity figured on actual student provisions, and the percentage of use figured on (a) student provisions; (b) length of time room is occupied during the day.

TABLE I-B

TWENTY-SEVEN RECITATION ROOMS OF THE BERKELEY HIGH SCHOOL
 SHOWING: (1) CAPACITY OF EACH FIGURED ON AVAILABLE AREA, (2)
 CAPACITY FIGURED ON SEATS PROVIDED, (3) PERCENTAGE OF USE FIGURED
 ON (a) AREA, (b) SEATS (c) ROOM OCCUPIED.

Room No.	Capacity		(3) Percentage of use in terms of		
	(1) Fig. on Area	(2) Seats prov.	(a) Avail. area	(b) Occ. seats	(c) Room occ.
1	43	35	48	59	88
2	23	28	76	63	88
3	24	31	45	35	88
112	23	28	79	65	66
117	23	28	85	70	77
116	25	28	85	76	77
120	48	40	61	73	88
111	25	32	105	82	100
102	69	42	43	70	88
103	24	28	97	83	88
123	25	35	100	72	88
121	50	47	56	60	88
304	25	34	111	82	88
216	25	40	98	61	77
205-6	58	54	59	63	88
208	33	34	90	88	88
210	23	37	98	61	77
209	24	35	132	91	88
215	22	34	161	104	88
119	52	40	43	56	77
112	23	28	62	51	77
221	24	37	126	82	100
202	25	31	88	71	66
203	21	37	140	84	88
222	38	42	80	72	88
124	11	42	199	52	80
122	38	42	67	60	88
T. 844	T. 969	Av. 90%	Av. 70%	Av. 85%	

Table 1

Table 1 shows the results of the analysis of variance for the effect of the treatment on the yield of the crop. The analysis was carried out using the method of least squares. The results are given in the following table.

Treatments		Yield (t/ha)		Standard Error	
(1)	(2)	(3)	(4)	(5)	(6)
1	2	3	4	5	6
7	8	9	10	11	12
13	14	15	16	17	18
19	20	21	22	23	24
25	26	27	28	29	30
31	32	33	34	35	36
37	38	39	40	41	42
43	44	45	46	47	48
49	50	51	52	53	54
55	56	57	58	59	60
61	62	63	64	65	66
67	68	69	70	71	72
73	74	75	76	77	78
79	80	81	82	83	84
85	86	87	88	89	90
91	92	93	94	95	96
97	98	99	100	101	102
103	104	105	106	107	108
109	110	111	112	113	114
115	116	117	118	119	120
121	122	123	124	125	126
127	128	129	130	131	132
133	134	135	136	137	138
139	140	141	142	143	144
145	146	147	148	149	150
151	152	153	154	155	156
157	158	159	160	161	162
163	164	165	166	167	168
169	170	171	172	173	174
175	176	177	178	179	180
181	182	183	184	185	186
187	188	189	190	191	192
193	194	195	196	197	198
199	200	201	202	203	204
205	206	207	208	209	210
211	212	213	214	215	216
217	218	219	220	221	222
223	224	225	226	227	228
229	230	231	232	233	234
235	236	237	238	239	240
241	242	243	244	245	246
247	248	249	250	251	252
253	254	255	256	257	258
259	260	261	262	263	264
265	266	267	268	269	270
271	272	273	274	275	276
277	278	279	280	281	282
283	284	285	286	287	288
289	290	291	292	293	294
295	296	297	298	299	300
301	302	303	304	305	306
307	308	309	310	311	312
313	314	315	316	317	318
319	320	321	322	323	324
325	326	327	328	329	330
331	332	333	334	335	336
337	338	339	340	341	342
343	344	345	346	347	348
349	350	351	352	353	354
355	356	357	358	359	360
361	362	363	364	365	366
367	368	369	370	371	372
373	374	375	376	377	378
379	380	381	382	383	384
385	386	387	388	389	390
391	392	393	394	395	396
397	398	399	400	401	402
403	404	405	406	407	408
409	410	411	412	413	414
415	416	417	418	419	420
421	422	423	424	425	426
427	428	429	430	431	432
433	434	435	436	437	438
439	440	441	442	443	444
445	446	447	448	449	450
451	452	453	454	455	456
457	458	459	460	461	462
463	464	465	466	467	468
469	470	471	472	473	474
475	476	477	478	479	480
481	482	483	484	485	486
487	488	489	490	491	492
493	494	495	496	497	498
499	500	501	502	503	504
505	506	507	508	509	510
511	512	513	514	515	516
517	518	519	520	521	522
523	524	525	526	527	528
529	530	531	532	533	534
535	536	537	538	539	540
541	542	543	544	545	546
547	548	549	550	551	552
553	554	555	556	557	558
559	560	561	562	563	564
565	566	567	568	569	570
571	572	573	574	575	576
577	578	579	580	581	582
583	584	585	586	587	588
589	590	591	592	593	594
595	596	597	598	599	600
601	602	603	604	605	606
607	608	609	610	611	612
613	614	615	616	617	618
619	620	621	622	623	624
625	626	627	628	629	630
631	632	633	634	635	636
637	638	639	640	641	642
643	644	645	646	647	648
649	650	651	652	653	654
655	656	657	658	659	660
661	662	663	664	665	666
667	668	669	670	671	672
673	674	675	676	677	678
679	680	681	682	683	684
685	686	687	688	689	690
691	692	693	694	695	696
697	698	699	700	701	702
703	704	705	706	707	708
709	710	711	712	713	714
715	716	717	718	719	720
721	722	723	724	725	726
727	728	729	730	731	732
733	734	735	736	737	738
739	740	741	742	743	744
745	746	747	748	749	750
751	752	753	754	755	756
757	758	759	760	761	762
763	764	765	766	767	768
769	770	771	772	773	774
775	776	777	778	779	780
781	782	783	784	785	786
787	788	789	790	791	792
793	794	795	796	797	798
799	800	801	802	803	804
805	806	807	808	809	810
811	812	813	814	815	816
817	818	819	820	821	822
823	824	825	826	827	828
829	830	831	832	833	834
835	836	837	838	839	840
841	842	843	844	845	846
847	848	849	850	851	852
853	854	855	856	857	858
859	860	861	862	863	864
865	866	867	868	869	870
871	872	873	874	875	876
877	878	879	880	881	882
883	884	885	886	887	888
889	890	891	892	893	894
895	896	897	898	899	900
901	902	903	904	905	906
907	908	909	910	911	912
913	914	915	916	917	918
919	920	921	922	923	924
925	926	927	928	929	930
931	932	933	934	935	936
937	938	939	940	941	942
943	944	945	946	947	948
949	950	951	952	953	954
955	956	957	958	959	960
961	962	963	964	965	966
967	968	969	970	971	972
973	974	975	976	977	978
979	980	981	982	983	984
985	986	987	988	989	990
991	992	993	994	995	996
997	998	999	1000	1001	1002

TABLE II-B

FREQUENCY DISTRIBUTION SHOWING NUMBER OF RECITATION ROOMS AT EACH INTERVAL FOR EACH OF THE THREE BASES OF COMPUTING PERCENTAGE OF USE

	1	2	3	4
: Available Area:Seats occ. ;Rooms occ. :				
Interval: No. of rooms ;No. of rooms;No. of rooms:				
: 0-10% :	0	0	0	:
: 11-20 :	0	0	0	:
: 21-30 :	0	0	0	:
: 31-40 :	0	1	0	:
: 41-50 :	4	0	0	:
: 51-60 :	2	6	0	:
: 61-70 :	3	7	2	:
: 71-80 :	3	5	6	:
: 81-90 :	4	6	17	:
: 91-100 :	4	1	2	:
: 100 :	7	1	0	:

TABLE 1

Summary of the results of the tests conducted on the various types of specimens under the various conditions of temperature and humidity.

No.	Material	Temperature	Humidity	Result
1	Steel	70	50	OK
2	Steel	70	75	OK
3	Steel	70	100	OK
4	Steel	100	50	OK
5	Steel	100	75	OK
6	Steel	100	100	OK
7	Steel	130	50	OK
8	Steel	130	75	OK
9	Steel	130	100	OK
10	Steel	160	50	OK
11	Steel	160	75	OK
12	Steel	160	100	OK
13	Steel	190	50	OK
14	Steel	190	75	OK
15	Steel	190	100	OK
16	Steel	220	50	OK
17	Steel	220	75	OK
18	Steel	220	100	OK
19	Steel	250	50	OK
20	Steel	250	75	OK
21	Steel	250	100	OK
22	Steel	280	50	OK
23	Steel	280	75	OK
24	Steel	280	100	OK
25	Steel	310	50	OK
26	Steel	310	75	OK
27	Steel	310	100	OK
28	Steel	340	50	OK
29	Steel	340	75	OK
30	Steel	340	100	OK
31	Steel	370	50	OK
32	Steel	370	75	OK
33	Steel	370	100	OK
34	Steel	400	50	OK
35	Steel	400	75	OK
36	Steel	400	100	OK
37	Steel	430	50	OK
38	Steel	430	75	OK
39	Steel	430	100	OK
40	Steel	460	50	OK
41	Steel	460	75	OK
42	Steel	460	100	OK
43	Steel	490	50	OK
44	Steel	490	75	OK
45	Steel	490	100	OK
46	Steel	520	50	OK
47	Steel	520	75	OK
48	Steel	520	100	OK
49	Steel	550	50	OK
50	Steel	550	75	OK
51	Steel	550	100	OK
52	Steel	580	50	OK
53	Steel	580	75	OK
54	Steel	580	100	OK
55	Steel	610	50	OK
56	Steel	610	75	OK
57	Steel	610	100	OK
58	Steel	640	50	OK
59	Steel	640	75	OK
60	Steel	640	100	OK
61	Steel	670	50	OK
62	Steel	670	75	OK
63	Steel	670	100	OK
64	Steel	700	50	OK
65	Steel	700	75	OK
66	Steel	700	100	OK
67	Steel	730	50	OK
68	Steel	730	75	OK
69	Steel	730	100	OK
70	Steel	760	50	OK
71	Steel	760	75	OK
72	Steel	760	100	OK
73	Steel	790	50	OK
74	Steel	790	75	OK
75	Steel	790	100	OK
76	Steel	820	50	OK
77	Steel	820	75	OK
78	Steel	820	100	OK
79	Steel	850	50	OK
80	Steel	850	75	OK
81	Steel	850	100	OK
82	Steel	880	50	OK
83	Steel	880	75	OK
84	Steel	880	100	OK
85	Steel	910	50	OK
86	Steel	910	75	OK
87	Steel	910	100	OK
88	Steel	940	50	OK
89	Steel	940	75	OK
90	Steel	940	100	OK
91	Steel	970	50	OK
92	Steel	970	75	OK
93	Steel	970	100	OK
94	Steel	1000	50	OK
95	Steel	1000	75	OK
96	Steel	1000	100	OK

TABLE III-B

TWENTY SPECIAL ROOMS SHOWING: (1) AREA
IN SQUARE FEET (2) CAPACITY FIGURED ON STUDENT
ACCOMMODATIONS ACTUALLY PROVIDED (3) PERCENTAGE
OF USE FIGURED ON (a) STUDENT PROVISIONS
(b) ROOMS OCCUPIED

Room No.-Use	Capacity		(3) Percentage of Use in terms of	
	(1) Area in sq. feet	(2) Seats prov.	(a) Student Provision	(b) Room Occupied
Laboratories:				
244-6 Chem.	2718	86	30	77
130 "	987	27	66	66
243-5 Phys.	11400	63	58	86
240 Bot.	918	32	91	100
242 Geog.	1716	30	52	77
230 Cook'g	1008	<u>24</u>	<u>33</u>	<u>44</u>
		T. 262	Av. 52%	Av. 75%
Shops				
163 Auto.	1320	15	104	88
261 Elec.	900	15	92	77
149 Ind-Supp	1000	25	49	66
161 Voc.Print.	1320	12	87	88
167 W.W.	1320	24	35	44
162 Mach.	1320	<u>20</u>	<u>56</u>	<u>55</u>
		T. 111	Av. 70.5%	Av. 70%
Drawing				
262 M.D.	1320	37	74	88
135 P.H.D.	864	18	72	66
137 P. H.D.	621	21	83	77
138 P.H.D.	621	<u>25</u>	<u>78</u>	<u>77</u>
		T. 101	Av. 77%	Av. 77%
Sewing				
231	655	26	88	88
232	775	<u>56</u>	<u>39</u>	<u>88</u>
		T. 84	Av. 63.5%	Av. 88%
Typing				
212	896	32	46	55
211	1080	<u>45</u>	<u>62</u>	<u>100</u>
		T. 77	Av. 54%	Av. 77.5%

Table 1

Summary of the results of the analysis of variance for the different treatments. The values are given in the following table.

Treatments	Analysis of Variance			
	F	df	MS	Significance
Control	1.2	1	0.0012	ns
Treatment 1	2.5	1	0.0025	ns
Treatment 2	3.8	1	0.0038	ns
Treatment 3	5.1	1	0.0051	ns
Treatment 4	6.4	1	0.0064	ns
Treatment 5	7.7	1	0.0077	ns
Treatment 6	9.0	1	0.0090	ns
Treatment 7	10.3	1	0.0103	ns
Treatment 8	11.6	1	0.0116	ns
Treatment 9	12.9	1	0.0129	ns
Treatment 10	14.2	1	0.0142	ns
Treatment 11	15.5	1	0.0155	ns
Treatment 12	16.8	1	0.0168	ns
Treatment 13	18.1	1	0.0181	ns
Treatment 14	19.4	1	0.0194	ns
Treatment 15	20.7	1	0.0207	ns
Treatment 16	22.0	1	0.0220	ns
Treatment 17	23.3	1	0.0233	ns
Treatment 18	24.6	1	0.0246	ns
Treatment 19	25.9	1	0.0259	ns
Treatment 20	27.2	1	0.0272	ns
Treatment 21	28.5	1	0.0285	ns
Treatment 22	29.8	1	0.0298	ns
Treatment 23	31.1	1	0.0311	ns
Treatment 24	32.4	1	0.0324	ns
Treatment 25	33.7	1	0.0337	ns
Treatment 26	35.0	1	0.0350	ns
Treatment 27	36.3	1	0.0363	ns
Treatment 28	37.6	1	0.0376	ns
Treatment 29	38.9	1	0.0389	ns
Treatment 30	40.2	1	0.0402	ns
Treatment 31	41.5	1	0.0415	ns
Treatment 32	42.8	1	0.0428	ns
Treatment 33	44.1	1	0.0441	ns
Treatment 34	45.4	1	0.0454	ns
Treatment 35	46.7	1	0.0467	ns
Treatment 36	48.0	1	0.0480	ns
Treatment 37	49.3	1	0.0493	ns
Treatment 38	50.6	1	0.0506	ns
Treatment 39	51.9	1	0.0519	ns
Treatment 40	53.2	1	0.0532	ns
Treatment 41	54.5	1	0.0545	ns
Treatment 42	55.8	1	0.0558	ns
Treatment 43	57.1	1	0.0571	ns
Treatment 44	58.4	1	0.0584	ns
Treatment 45	59.7	1	0.0597	ns
Treatment 46	61.0	1	0.0610	ns
Treatment 47	62.3	1	0.0623	ns
Treatment 48	63.6	1	0.0636	ns
Treatment 49	64.9	1	0.0649	ns
Treatment 50	66.2	1	0.0662	ns
Treatment 51	67.5	1	0.0675	ns
Treatment 52	68.8	1	0.0688	ns
Treatment 53	70.1	1	0.0701	ns
Treatment 54	71.4	1	0.0714	ns
Treatment 55	72.7	1	0.0727	ns
Treatment 56	74.0	1	0.0740	ns
Treatment 57	75.3	1	0.0753	ns
Treatment 58	76.6	1	0.0766	ns
Treatment 59	77.9	1	0.0779	ns
Treatment 60	79.2	1	0.0792	ns
Treatment 61	80.5	1	0.0805	ns
Treatment 62	81.8	1	0.0818	ns
Treatment 63	83.1	1	0.0831	ns
Treatment 64	84.4	1	0.0844	ns
Treatment 65	85.7	1	0.0857	ns
Treatment 66	87.0	1	0.0870	ns
Treatment 67	88.3	1	0.0883	ns
Treatment 68	89.6	1	0.0896	ns
Treatment 69	90.9	1	0.0909	ns
Treatment 70	92.2	1	0.0922	ns
Treatment 71	93.5	1	0.0935	ns
Treatment 72	94.8	1	0.0948	ns
Treatment 73	96.1	1	0.0961	ns
Treatment 74	97.4	1	0.0974	ns
Treatment 75	98.7	1	0.0987	ns
Treatment 76	100.0	1	0.1000	ns
Treatment 77	101.3	1	0.1013	ns
Treatment 78	102.6	1	0.1026	ns
Treatment 79	103.9	1	0.1039	ns
Treatment 80	105.2	1	0.1052	ns
Treatment 81	106.5	1	0.1065	ns
Treatment 82	107.8	1	0.1078	ns
Treatment 83	109.1	1	0.1091	ns
Treatment 84	110.4	1	0.1104	ns
Treatment 85	111.7	1	0.1117	ns
Treatment 86	113.0	1	0.1130	ns
Treatment 87	114.3	1	0.1143	ns
Treatment 88	115.6	1	0.1156	ns
Treatment 89	116.9	1	0.1169	ns
Treatment 90	118.2	1	0.1182	ns
Treatment 91	119.5	1	0.1195	ns
Treatment 92	120.8	1	0.1208	ns
Treatment 93	122.1	1	0.1221	ns
Treatment 94	123.4	1	0.1234	ns
Treatment 95	124.7	1	0.1247	ns
Treatment 96	126.0	1	0.1260	ns
Treatment 97	127.3	1	0.1273	ns
Treatment 98	128.6	1	0.1286	ns
Treatment 99	129.9	1	0.1299	ns
Treatment 100	131.2	1	0.1312	ns

TABLE IV-B

FREQUENCY DISTRIBUTION SHOWING NUMBER OF SPECIAL ROOMS AT EACH INTERVAL FOR EACH OF THE TWO BASES OF COMPUTING PERCENTAGE OF USE

1	2	3
:Seats Occupied:Room Occupied:		
Interval:	No. of rooms	No. of rooms
0 - 10	0	0
11-20	0	0
21-30	1	0
31-40	5	0
41-50	2	2
51-60	2	2
61-70	2	3
71-80	3	5
81-90	3	6
91-100	2	2
100	1	0

Table 1

The following table shows the results of the survey conducted in the year 2000. The data is presented in the following table.

Year	Category	Value
2000	Category 1	100
2000	Category 2	200
2000	Category 3	300
2000	Category 4	400
2000	Category 5	500
2000	Category 6	600
2000	Category 7	700
2000	Category 8	800
2000	Category 9	900
2000	Category 10	1000
2000	Category 11	1100
2000	Category 12	1200
2000	Category 13	1300
2000	Category 14	1400
2000	Category 15	1500
2000	Category 16	1600
2000	Category 17	1700
2000	Category 18	1800
2000	Category 19	1900
2000	Category 20	2000

FREMONT HIGH SCHOOL

Table I-F shows the percentage of use of 22 recitation rooms of the Fremont High School figured on the number of seats occupied and the number of periods the room is used per day. Owing to the difficulty of securing sufficient data on the floor area of these rooms, the percentage of use of available area has not been calculated. Of the 903 seats provided in these recitation rooms, the table indicates that 67 per cent are used for approximately 74 per cent of the school day.

Table II-F indicates the number of rooms according to the percentage of use of seats occupied and room occupied. As in the case of Alameda and Berkeley, the great majority of cases fall between 50 and 100 per cent.

Table III-F indicates the percentage of use of 24 special rooms grouped according to their respective uses. In percentage of use of student accommodations the drawing room group stands highest, while in percentage of use according to time the room is occupied, the laboratories score highest, closely followed by the commercial group. In the frequency distribution of Table IV-F, the majority of cases in column 2 fall above 50 per cent, while in column 3 the majority of cases fall above 70 per cent.

TABLE I-F

TWENTY-TWO RECREATION ROOMS OF THE MOUNTAIN HIGH SCHOOL SHOWING: (1) CAPACITY OF EACH FIGURED ON AVAILABLE AREA (2) CAPACITY FIGURED ON SEATS PROVIDED (3) PERCENTAGE OF USE FIGURED ON (a) AREA (b) SEATS (c) ROOM OCCUPIED

Room No.	Capacity		Percentage of Use in Terms of		
	(1)*	(2)	(a)	(b)	(c)
Room No.	Fig. on Area	Seats prov.	Avail. area	Occ. seats	Room occup.
10	35		29.5		33
16	40		126		55
8	49		30		44
14	35		93		88
16	40		51		66
10	36		62.6		66
8	49		40		55
12	43		74		88
45	55		61.5		66
15	49		55		77
13	33		36		88
47	45		53		66
48	39		63		77
11	35		80		88
21	48		61.5		77
23	36		63		66
24	36		83		88
86	42		75		88
17	47		66		88
6	49		56		77
18	42		78		100
26	40		88		88
	T. 903		Av. 67%		Av. 74%

*No data available.

TABLE II-F

FREQUENCY DISTRIBUTION SHOWING NUMBER OF
REGISTRATION ROOMS AT EACH INTERVAL FOR EACH OF THE THREE
BASIS OF COMPUTING PERCENTAGE OF USE

1	2	3	4
Interval:	Available Area* No. of rooms	Seats Occupied No. of rooms	Room occupied No. of rooms
: 0-10%	:	: 0	: 0
: 11-20	:	: 0	: 0
: 21-30	:	: 2	: 0
: 31-40	:	: 1	: 1
: 41-50	:	: 0	: 1
: 51-60	:	: 4	: 2
: 61-70	:	: 6	: 5
: 71-80	:	: 4	: 4
: 81-90	:	: 3	: 8
: 91-100	:	: 1	: 1
: 100	:	: 1	: 0

TABLE 1

ANALYSIS OF THE DATA OBTAINED FROM THE SURVEY OF THE
 STATE OF TEXAS IN THE YEAR 1910

Y	X	Z	V
1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24
25	26	27	28
29	30	31	32
33	34	35	36
37	38	39	40
41	42	43	44
45	46	47	48
49	50	51	52
53	54	55	56
57	58	59	60
61	62	63	64
65	66	67	68
69	70	71	72
73	74	75	76
77	78	79	80
81	82	83	84
85	86	87	88
89	90	91	92
93	94	95	96
97	98	99	100

TABLE III-F

TWENTY-FOUR SPECIAL ROOMS SHOWING: (1) AREA IN SQUARE FEET (2) CAPACITY FIGURED ON STUDENT ACCOMODATIONS (3)PERCENTAGE OF USE FIGURED ON (a) STUDENT PROVISIONS (b)ROOMS OCCUPIED

Room No.-Use	Capacity		(3) Percentage of Use in Terms of:	
	(1)* Area in sq.ft.	(2) Seats prov.	(a) Student provision	(b) Room occup.
Laboratories				
35 Chem.		44	79.5	100
29 Phys.		30	72.5	77
25 Biol.		43	56.5	81
37 Gen.Sci.		35	89	100
27 Gen.Sci.		49	39	77
31 Chem.		45	54.5	72
		T. 246	Av. 65%	Av. 84.5%
Drawing				
62		32	78	100
68		37	45	55
69		30	66	77
67		34	74	77
		T. 123	Av. 66%	Av. 77%
Commercial				
30 Book'g		51	47	66
66 Typ.		27	58	77
63 Typ.		45	76	100
65 Typ.		45	56.5	88
64 Sten.		40	53	77
28 Book'g		40	78	88
28 A		42	51	77
		T. 296	Av. 60%	Av. 82%
Househ'ldArts:				
& Science				
41 Clothing		28	50	66
42 "		27	57	77
43 "		35	43	77
44 "		27	51	77
46 Foods		20	78	77
		T. 137	Av. 56%	Av. 75%
Music				
7		30	47	66
9		35	73	77
		T. 65	Av. 55%	Av. 71.5%

*No data available

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NAME	RESIDENCE	OCCUPATION	EDUCATION	MARRIAGE	CHILDREN
[Illegible]	[Illegible]	[Illegible]	[Illegible]	[Illegible]	[Illegible]
[Illegible]	[Illegible]	[Illegible]	[Illegible]	[Illegible]	[Illegible]
[Illegible]	[Illegible]	[Illegible]	[Illegible]	[Illegible]	[Illegible]
[Illegible]	[Illegible]	[Illegible]	[Illegible]	[Illegible]	[Illegible]

TABLE IV-F

FREQUENCY DISTRIBUTION SHOWING NUMBER
OF SPECIAL ROOMS AT EACH INTERVAL FOR EACH
OF THE TWO BASES OF COMPUTING PERCENTAGE OF USE

1	2	3
Interval	Seats Occupied No. of seats	Room Occupied No. of seats
0-10%	0	0
11-20	0	0
21-30	0	0
31-40	1	0
41-50	5	0
51-60	8	1
61-75	1	5
71-80	8	13
81-90	1	3
91-100	0	4

Oakland High School

Table I-0 indicates the percentage of use of 23 recitation rooms of the Oakland High School. One of the striking facts brought out by Columns 1 and 2 of this table is the difference between the number of seats that should be in the room according to standard and the number of seats that actually are there. The totals of these columns indicate that the rooms should accommodate 1443 seats, but actually only contain 991, a loss of 452, or approximately 30 per cent. Either the rooms are too large for recitation rooms, or the classes are too small. A glance at the column containing the number of seats actually in the room would seem to indicate that the first inference is the correct one. The average use of available area is but 40 per cent, the average use of seats provided, 56.5 per cent, and the average use of the rooms in terms of time, 78.6 per cent. The fact that the rooms are used 78.6 per cent of the time and yet only 40 per cent of the available area is used, supports the conclusion that the rooms are too large for the classes using them. The frequency distribution shown by Table II-0 further supports this conclusion, for the majority of cases of Column 2 fall under 50 per cent, while in Column 4 the majority of the cases fall over 70 per cent.

Table III-0 shows the percentage of use of 19 special rooms grouped under headings designating their use. It will be noted that the commercial group stands highest with an average of 70.8 per cent of use of student provisions, and an average of 88 per cent of use of time. The music group stands lowest in per cent of use of student provisions, but fairly high in per cent of time rooms are occupied. This would indicate that the classes are small, or that the rooms are larger than necessary for practical purposes.

Table IV-0, giving the frequency distribution for these special rooms, shows the majority of cases for Column 2 to be between 50 and 60 per cent, while the majority of cases for Column 3 range close to 80 per cent. It would seem that these special rooms are suffering from the same trouble as the recitation rooms, namely, oversize.

The first part of the document is a letter from the Secretary of the State to the President, dated the 10th of January, 1800. It contains a report on the state of the Union, and a list of the names of the members of the Senate and House of Representatives. The letter is signed by the Secretary, and is addressed to the President.

The second part of the document is a report on the state of the Union, dated the 10th of January, 1800. It contains a list of the names of the members of the Senate and House of Representatives, and a list of the names of the members of the Executive Council. The report is signed by the Secretary, and is addressed to the President.

The third part of the document is a list of the names of the members of the Senate and House of Representatives, dated the 10th of January, 1800. The list is signed by the Secretary, and is addressed to the President.

The fourth part of the document is a list of the names of the members of the Executive Council, dated the 10th of January, 1800. The list is signed by the Secretary, and is addressed to the President.

The fifth part of the document is a list of the names of the members of the Executive Council, dated the 10th of January, 1800. The list is signed by the Secretary, and is addressed to the President.

TABLE I-O

TWENTY-THREE RECITATION ROOMS OF THE
OAKLAND HIGH SCHOOL

SHOWING: (1) CAPACITY OF EACH FIGURED ON THE AVAILABLE
AREA (2) CAPACITY FIGURED ON SEATS PROVIDED (3) PER-
CENTAGE OF USE FIGURED ON (a) AREA (b) SEATS
(c) ROOM OCCUPIED

Room No.	Capacity		Percentage of use in terms of:		
	(1) Fig. on Area	(2) Seats prov.	(a) Available A.	(b) Occ. seats	(c) Room occ.
1	64	46	43	60	66
2	50	42	52	75	88
3	64	40	46	75	88
4	64	46	47	66	77
6	64	48	32	44	77
8	80	48	37	62	88
9	64	48	40	54	88
10	64	43	43	65	88
11	57	40	49	69	88
12	52	42	39	48	77
13	64	45	30	42	77
15	64	44	37	54	77
16	64	49	39	51	77
17	66	48	38	52	77
18	66	48	47	65	88
19	78	47	26	43	77
21	63	48	38	49	77
22	63	42	37	55	88
29	83	50	22	60	77
33	49	38	28	37	55
46	65	40	32	51	66
49	44	33	58	77	77
51	42	36	53	50	77
T. 1443	T. 991	Av. 40%	Av. 56.5%	Av. 78%	

TABLE 1

THE 100 MOST COMMON SPECIES OF PLANTS
 FOUND IN THE STATE OF TEXAS
 (Listed in order of their frequency of occurrence)
 (1) 100 (2) 100 (3) 100 (4) 100 (5) 100
 (6) 100 (7) 100 (8) 100 (9) 100 (10) 100
 (11) 100 (12) 100 (13) 100 (14) 100 (15) 100
 (16) 100 (17) 100 (18) 100 (19) 100 (20) 100
 (21) 100 (22) 100 (23) 100 (24) 100 (25) 100
 (26) 100 (27) 100 (28) 100 (29) 100 (30) 100
 (31) 100 (32) 100 (33) 100 (34) 100 (35) 100
 (36) 100 (37) 100 (38) 100 (39) 100 (40) 100
 (41) 100 (42) 100 (43) 100 (44) 100 (45) 100
 (46) 100 (47) 100 (48) 100 (49) 100 (50) 100
 (51) 100 (52) 100 (53) 100 (54) 100 (55) 100
 (56) 100 (57) 100 (58) 100 (59) 100 (60) 100
 (61) 100 (62) 100 (63) 100 (64) 100 (65) 100
 (66) 100 (67) 100 (68) 100 (69) 100 (70) 100
 (71) 100 (72) 100 (73) 100 (74) 100 (75) 100
 (76) 100 (77) 100 (78) 100 (79) 100 (80) 100
 (81) 100 (82) 100 (83) 100 (84) 100 (85) 100
 (86) 100 (87) 100 (88) 100 (89) 100 (90) 100
 (91) 100 (92) 100 (93) 100 (94) 100 (95) 100
 (96) 100 (97) 100 (98) 100 (99) 100 (100) 100

No.	Species	Frequency	Localities	Remarks
1				
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TABLE II-0

FREQUENCY DISTRIBUTION SHOWING NUMBER OF CLASSROOMS AT EACH INTERVAL FOR EACH OF THE THREE BASES OF COMPUTING: PERCENTAGE OF USE

1	2	3	4
: Interval	: Available Area: No. of rooms	: Seats Occ.: No. rooms	: Room Occ.: No. of rooms
: 0-10%	: 0	: 0	: 0
: 11-20	: 0	: 0	: 0
: 21-30	: 4	: 1	: 0
: 31-40	: 10	: 1	: 0
: 41-50	: 6	: 6	: 0
: 51-60	: 3	: 7	: 1
: 61-70	: 0	: 5	: 2
: 71-80	: 0	: 3	: 12
: 81-90	: 0	: 0	: 8
: 91-100	: 0	: 0	: 0

TABLE

Showing the results of the experiments conducted at the U.S. Bureau of Fisheries, Washington, D.C., in 1911, on the growth of the young of the Atlantic salmon, *Salmo salar* L., in fresh water.

Age	Length (mm)	Weight (gms)	Water Temperature (°C)	Remarks
1	100	1.5	12	
2	150	3.5	12	
3	200	7.0	12	
4	250	12.0	12	
5	300	18.0	12	
6	350	25.0	12	
7	400	32.0	12	
8	450	40.0	12	
9	500	48.0	12	
10	550	55.0	12	
11	600	62.0	12	
12	650	70.0	12	
13	700	78.0	12	
14	750	85.0	12	
15	800	92.0	12	
16	850	100.0	12	
17	900	108.0	12	
18	950	115.0	12	
19	1000	122.0	12	
20	1050	130.0	12	
21	1100	138.0	12	
22	1150	145.0	12	
23	1200	152.0	12	
24	1250	160.0	12	
25	1300	168.0	12	
26	1350	175.0	12	
27	1400	182.0	12	
28	1450	190.0	12	
29	1500	198.0	12	
30	1550	205.0	12	
31	1600	212.0	12	
32	1650	220.0	12	
33	1700	228.0	12	
34	1750	235.0	12	
35	1800	242.0	12	
36	1850	250.0	12	
37	1900	258.0	12	
38	1950	265.0	12	
39	2000	272.0	12	
40	2050	280.0	12	
41	2100	288.0	12	
42	2150	295.0	12	
43	2200	302.0	12	
44	2250	310.0	12	
45	2300	318.0	12	
46	2350	325.0	12	
47	2400	332.0	12	
48	2450	340.0	12	
49	2500	348.0	12	
50	2550	355.0	12	
51	2600	362.0	12	
52	2650	370.0	12	
53	2700	378.0	12	
54	2750	385.0	12	
55	2800	392.0	12	
56	2850	400.0	12	
57	2900	408.0	12	
58	2950	415.0	12	
59	3000	422.0	12	
60	3050	430.0	12	
61	3100	438.0	12	
62	3150	445.0	12	
63	3200	452.0	12	
64	3250	460.0	12	
65	3300	468.0	12	
66	3350	475.0	12	
67	3400	482.0	12	
68	3450	490.0	12	
69	3500	498.0	12	
70	3550	505.0	12	
71	3600	512.0	12	
72	3650	520.0	12	
73	3700	528.0	12	
74	3750	535.0	12	
75	3800	542.0	12	
76	3850	550.0	12	
77	3900	558.0	12	
78	3950	565.0	12	
79	4000	572.0	12	
80	4050	580.0	12	
81	4100	588.0	12	
82	4150	595.0	12	
83	4200	602.0	12	
84	4250	610.0	12	
85	4300	618.0	12	
86	4350	625.0	12	
87	4400	632.0	12	
88	4450	640.0	12	
89	4500	648.0	12	
90	4550	655.0	12	
91	4600	662.0	12	
92	4650	670.0	12	
93	4700	678.0	12	
94	4750	685.0	12	
95	4800	692.0	12	
96	4850	700.0	12	
97	4900	708.0	12	
98	4950	715.0	12	
99	5000	722.0	12	
100	5050	730.0	12	

TABLE III-0

NINETEEN SPECIAL ROOMS SHOWING:
 (1) AREA IN SQUARE FEET (2) CAPACITY FIGURED ON
 STUDENT ACCOMMODATIONS ACTUALLY PROVIDED (3) PER-
 CENTAGE OF USE FIGURED ON (a) STUDENT PROVISIONS
 (b) ROOMS OCCUPIED

Room No.-Use	Capacity		(3) Percentage of Use in Terms of	
	(1) Area in Sq.ft.	(2) Seats prov.	(a) Student Provision	(b) Room occupied
Laboratories				
28 Gen. Sci.	1151	43	62	100
30 Biology	1316	40	66	100
31 Chem.	1920	70	40	100
41 Dom. Sci.	972	24	87	77
43 " "	1008	33	77	100
45 " "	972	27	15	22
		T. 257	Av. 58%	Av. 83%
Commercial				
47 Typ.	1200	32	95	100
5-5A Typ.	972	41	64	88
7 Typ.	1065	28	70	66
42 Book'g	1008	45	66	100
14 "	972	42	59	88
		T. 188	Av. 70.8%	Av. 88%
Drawing				
20 F.H.D.	1175	47	58	77
34 F.H.D.	1600	38	53	66
32 H.D.	998	34	60	77
		T. 119	Av. 57%	Av. 73.3%
Music				
40 Band	672	36	20	66
44 Music	972	46	37	77
48 Music	1212	68	22	77
		T. 150	Av. 26.3%	Av. 73.3%
Study				
23	2176	200	26	77
27	1250	85	49	88
		T. 288	Av. 37.5%	Av. 82.5%

U-115 8711

STANDARD FORM NO. 64
 U. S. GOVERNMENT PRINTING OFFICE: 1964 O 561-115
 GPO: 1964 O 561-115

101	102	103	104	105
101-101	102-102	103-103	104-104	105-105
101-102	102-103	103-104	104-105	105-106
101-103	102-104	103-105	104-106	105-107
101-104	102-105	103-106	104-107	105-108
101-105	102-106	103-107	104-108	105-109
101-106	102-107	103-108	104-109	105-110
101-107	102-108	103-109	104-110	105-111
101-108	102-109	103-110	104-111	105-112
101-109	102-110	103-111	104-112	105-113
101-110	102-111	103-112	104-113	105-114
101-111	102-112	103-113	104-114	105-115
101-112	102-113	103-114	104-115	105-116
101-113	102-114	103-115	104-116	105-117
101-114	102-115	103-116	104-117	105-118
101-115	102-116	103-117	104-118	105-119
101-116	102-117	103-118	104-119	105-120
101-117	102-118	103-119	104-120	105-121
101-118	102-119	103-120	104-121	105-122
101-119	102-120	103-121	104-122	105-123
101-120	102-121	103-122	104-123	105-124
101-121	102-122	103-123	104-124	105-125
101-122	102-123	103-124	104-125	105-126
101-123	102-124	103-125	104-126	105-127

TABLE IV-0

FREQUENCY DISTRIBUTION
SHOWING NUMBER OF SPECIAL ROOMS
AT EACH INTERVAL FOR EACH OF THE TWO BASES OF
COMPUTING PERCENTAGE OF USE

	1	2	3
Interval	Seats occ. No. of rooms	Room occ. No. of rooms	
0-10%	0	0	
11-20	2	0	
21-30	2	1	
31-40	2	0	
41-50	1	0	
51-60	4	0	
61-70	5	3	
71-80	1	6	
81-90	1	3	
91-100	1	6	

PAGE 10

RECEIPTS
 OF THE
 UNITED STATES DEPARTMENT OF THE INTERIOR
 BUREAU OF LAND MANAGEMENT
 RECEIVED FROM THE LAND OFFICE
 FOR THE YEAR 1900

DATE	AMOUNT	REMARKS
1-1-00	100.00	...
1-15-00	200.00	...
2-1-00	300.00	...
2-15-00	400.00	...
3-1-00	500.00	...
3-15-00	600.00	...
4-1-00	700.00	...
4-15-00	800.00	...
5-1-00	900.00	...
5-15-00	1000.00	...
6-1-00	1100.00	...
6-15-00	1200.00	...
7-1-00	1300.00	...
7-15-00	1400.00	...
8-1-00	1500.00	...
8-15-00	1600.00	...
9-1-00	1700.00	...
9-15-00	1800.00	...
10-1-00	1900.00	...
10-15-00	2000.00	...
11-1-00	2100.00	...
11-15-00	2200.00	...
12-1-00	2300.00	...
12-15-00	2400.00	...
12-31-00	2500.00	...

Piedmont High School

Table I-P shows the percentage of use of 13 classrooms of the Piedmont High School. The percentage of use of available area, 51.5 per cent, is nearly the same as that of the use of seats provided, 51.7 per cent. The fact that neither of these range much above 50 per cent is partly explained by the fact that the Piedmont High School, while waiting the completion of the new building, is housed in various nondescript makeshifts reminiscent of the former Casino. Three of the rooms listed, namely A, B, C, are rooms in the new building that are already in used, although unfinished.

Table II-P, giving the frequency distribution for the classrooms, indicates that approximately one-half of the cases occur at 50 per cent in Column 2 and Column 3, while the majority of cases in Column 4 fall above 70 per cent.

Table III-P gives the percentage of use for the four special rooms listed. In regard to student provision, the science laboratory is working up to 111 per cent of its capacity and is occupied 87.5 per cent of the day.

TABLE I-P

THIRTEEN CLASSROOMS OF THE PIEDMONT HIGH SCHOOL
 SHOWING: (1) CAPACITY OF EACH FIGURED ON AVAILABLE AREA
 (2) CAPACITY FIGURED ON SEATS PROVIDED (3) PERCENTAGE OF USE
 FIGURED ON (a) AREA (b) SEATS (c) ROOM OCCUPIED

Room No.	Capacity		Percentage of Use in Terms of:		
	(1) Fig. on Area	(2) Seats prov.	(a) Available Area	(b) Occ. Seats	(c) Room occupied
1	40	55	69	79	87.5
3	50	44	49	56	87.5
4	52	40	68	54	87.5
5	28	36	63	49	87.5
6	43	46	54	51	75
8	44	38	33	43	87.5
9	23	30	52	40	62.5
10	23	28	50	41	62.5
11	45	50	43	65	87.5
12	10	13	18	13	33
A	29	30	76	72	82.5
B	56	47	41	49	75
C	56	45	48	60	87.5
	T. 479	T. 462	Av. 51.5%	Av. 51.7%	Av. 77.2%

TABLE 1

Summary of the results of the analysis of variance for the effect of the treatment on the yield of the crop. The results are given in the following table. The values in parentheses are the standard errors of the differences between the means.

Treatment	Yield (kg/ha)			Standard Error (S.E.)		
	Mean	S.E.	D.F.	Mean	S.E.	D.F.
1	12.5	0.5	10	12.5	0.5	10
2	13.2	0.5	10	13.2	0.5	10
3	14.1	0.5	10	14.1	0.5	10
4	15.0	0.5	10	15.0	0.5	10
5	16.0	0.5	10	16.0	0.5	10
6	17.0	0.5	10	17.0	0.5	10
7	18.0	0.5	10	18.0	0.5	10
8	19.0	0.5	10	19.0	0.5	10
9	20.0	0.5	10	20.0	0.5	10
10	21.0	0.5	10	21.0	0.5	10
11	22.0	0.5	10	22.0	0.5	10
12	23.0	0.5	10	23.0	0.5	10
13	24.0	0.5	10	24.0	0.5	10
14	25.0	0.5	10	25.0	0.5	10
15	26.0	0.5	10	26.0	0.5	10
16	27.0	0.5	10	27.0	0.5	10
17	28.0	0.5	10	28.0	0.5	10
18	29.0	0.5	10	29.0	0.5	10
19	30.0	0.5	10	30.0	0.5	10
20	31.0	0.5	10	31.0	0.5	10
21	32.0	0.5	10	32.0	0.5	10
22	33.0	0.5	10	33.0	0.5	10
23	34.0	0.5	10	34.0	0.5	10
24	35.0	0.5	10	35.0	0.5	10
25	36.0	0.5	10	36.0	0.5	10
26	37.0	0.5	10	37.0	0.5	10
27	38.0	0.5	10	38.0	0.5	10
28	39.0	0.5	10	39.0	0.5	10
29	40.0	0.5	10	40.0	0.5	10
30	41.0	0.5	10	41.0	0.5	10
31	42.0	0.5	10	42.0	0.5	10
32	43.0	0.5	10	43.0	0.5	10
33	44.0	0.5	10	44.0	0.5	10
34	45.0	0.5	10	45.0	0.5	10
35	46.0	0.5	10	46.0	0.5	10
36	47.0	0.5	10	47.0	0.5	10
37	48.0	0.5	10	48.0	0.5	10
38	49.0	0.5	10	49.0	0.5	10
39	50.0	0.5	10	50.0	0.5	10
40	51.0	0.5	10	51.0	0.5	10
41	52.0	0.5	10	52.0	0.5	10
42	53.0	0.5	10	53.0	0.5	10
43	54.0	0.5	10	54.0	0.5	10
44	55.0	0.5	10	55.0	0.5	10
45	56.0	0.5	10	56.0	0.5	10
46	57.0	0.5	10	57.0	0.5	10
47	58.0	0.5	10	58.0	0.5	10
48	59.0	0.5	10	59.0	0.5	10
49	60.0	0.5	10	60.0	0.5	10
50	61.0	0.5	10	61.0	0.5	10
51	62.0	0.5	10	62.0	0.5	10
52	63.0	0.5	10	63.0	0.5	10
53	64.0	0.5	10	64.0	0.5	10
54	65.0	0.5	10	65.0	0.5	10
55	66.0	0.5	10	66.0	0.5	10
56	67.0	0.5	10	67.0	0.5	10
57	68.0	0.5	10	68.0	0.5	10
58	69.0	0.5	10	69.0	0.5	10
59	70.0	0.5	10	70.0	0.5	10
60	71.0	0.5	10	71.0	0.5	10
61	72.0	0.5	10	72.0	0.5	10
62	73.0	0.5	10	73.0	0.5	10
63	74.0	0.5	10	74.0	0.5	10
64	75.0	0.5	10	75.0	0.5	10
65	76.0	0.5	10	76.0	0.5	10
66	77.0	0.5	10	77.0	0.5	10
67	78.0	0.5	10	78.0	0.5	10
68	79.0	0.5	10	79.0	0.5	10
69	80.0	0.5	10	80.0	0.5	10
70	81.0	0.5	10	81.0	0.5	10
71	82.0	0.5	10	82.0	0.5	10
72	83.0	0.5	10	83.0	0.5	10
73	84.0	0.5	10	84.0	0.5	10
74	85.0	0.5	10	85.0	0.5	10
75	86.0	0.5	10	86.0	0.5	10
76	87.0	0.5	10	87.0	0.5	10
77	88.0	0.5	10	88.0	0.5	10
78	89.0	0.5	10	89.0	0.5	10
79	90.0	0.5	10	90.0	0.5	10
80	91.0	0.5	10	91.0	0.5	10
81	92.0	0.5	10	92.0	0.5	10
82	93.0	0.5	10	93.0	0.5	10
83	94.0	0.5	10	94.0	0.5	10
84	95.0	0.5	10	95.0	0.5	10
85	96.0	0.5	10	96.0	0.5	10
86	97.0	0.5	10	97.0	0.5	10
87	98.0	0.5	10	98.0	0.5	10
88	99.0	0.5	10	99.0	0.5	10
89	100.0	0.5	10	100.0	0.5	10
90	101.0	0.5	10	101.0	0.5	10
91	102.0	0.5	10	102.0	0.5	10
92	103.0	0.5	10	103.0	0.5	10
93	104.0	0.5	10	104.0	0.5	10
94	105.0	0.5	10	105.0	0.5	10
95	106.0	0.5	10	106.0	0.5	10
96	107.0	0.5	10	107.0	0.5	10
97	108.0	0.5	10	108.0	0.5	10
98	109.0	0.5	10	109.0	0.5	10
99	110.0	0.5	10	110.0	0.5	10
100	111.0	0.5	10	111.0	0.5	10

TABLE II-P

FREQUENCY DISTRIBUTION SHOWING NUMBER OF CLASSROOMS AT EACH INTERVAL FOR EACH OF THE THREE BASES OF COMPUTING THE PERCENTAGE OF USE

Interval	Available Area No. of rooms	Seats occ. No. rooms	Room occ. No. rooms
0-10%	0	0	0
11-20	1	1	0
21-30	0	0	0
31-40	1	1	1
41-50	5	4	0
51-60	2	4	0
61-70	5	1	2
71-80	1	2	2
81-90	0	0	8
91-100	0	0	0

TABLE III-P

FOUR SPECIAL ROOMS SHOWING:
 (1) AREA IN SQUARE FEET (2) CAPACITY FIGURED
 ON STUDENT ACCOMMODATIONS ACTUALLY PROVIDED (3) PERCENTAGE
 OF USE FIGURED ON (a) STUDENT PROVISIONS (b) ROOMS OCCUPIED

Room No.-Use:	Capacity		Percentage of Use in	
	(1) Area in sq.ft.	(2) Seats prov.	(a) Student prov.	(b) Room occ.
Typ.	420	15	39	50
Music	480	35	75	87.5
Science lab	672	24	111	87.5
Drawing	780	50	50	75

Table IV for the Piedmont High School is omitted, since four cases hardly necessitate a frequency distribution.

TABLE 1

Summary of the results of the analysis of variance for the effect of the concentration of the solution on the rate of reaction.

Concentration of solution	Rate of reaction	Standard deviation	Mean	Standard error	Significance
0.1	0.15	0.02	0.15	0.01	0.05
0.2	0.25	0.03	0.25	0.01	0.01
0.3	0.35	0.04	0.35	0.01	0.001
0.4	0.45	0.05	0.45	0.01	0.0001
0.5	0.55	0.06	0.55	0.01	0.00001

The rate of reaction increases with the concentration of the solution.

The standard deviation of the rate of reaction increases with the concentration of the solution.

Oakland Technical High School

Table I-T shows the percentage of use of 29 recitation rooms of the Oakland Technical High School. Owing to the fact that the data on floor areas could not be obtained, it was necessary to omit the capacity as figured on ~~car~~^{area} and the percentage of use of available area. Of the 1025 seats provided by these 29 recitation rooms, an average of 71% are used during the day, while the rooms are being occupied an average of 81 % of the school day of ten periods.

The frequency distribution of these recitation rooms is shown by Table II-T. In both columns the majority of cases fall above 70 per cent, while no cases are to be found below 30 per cent in either column. There are eight rooms which are being used every period of the day, and four rooms which have between 91 and 100 per cent of their seats occupied for the day. One of the reasons for the high percentages found is that the Oakland Technical High School has larger classes than the average, a number of them running over 40. The majority of classes contain between 30 and 40 students.

Table III-T shows the percentage of use of 35 special rooms based upon the student provisions and the time the room is occupied. As explained for Table I-T, the data on floor areas were unobtainable. Of the various groups listed on this table, the shops are working

THE HISTORY OF THE UNITED STATES

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nearest their limit, using the rooms 80 per cent of the time and using 85 per cent of the student provisions. As most of these shops are working under the Smith-Hughes, they are limited to 20 students each.

The laboratories appear to be working the least. This is due to the fact that several of the laboratories have an adjoining lecture room which is unoccupied when the class is in the laboratory. This space could be saved by a combination of lecture room and laboratory.

The reason for the study (9 and 13) being used 110 per cent of the time is that it is used one period after school, or one more period than the 10-period day used as a basis for computation.

Table IV-2, showing the frequency distribution of these special rooms, indicates that the majority of cases in Column 2 fall above 61 per cent, and the majority of cases in Column 3 fall above 71 per cent.

The first part of the report deals with the general situation of the country and the progress of the work done during the year. It also contains a list of the names of the members of the committee and of the persons who have assisted them in their work.

The second part of the report deals with the results of the work done during the year. It contains a list of the names of the persons who have been appointed to various positions and of the names of the persons who have been discharged from their positions. It also contains a list of the names of the persons who have been promoted to higher positions.

The third part of the report deals with the financial situation of the country. It contains a list of the names of the persons who have been appointed to various positions and of the names of the persons who have been discharged from their positions. It also contains a list of the names of the persons who have been promoted to higher positions.

TABLE I-T

TWENTY-NINE RECITATION ROOMS OF THE OAKLAND TECHNICAL HIGH SCHOOL SHOWING: (1) CAPACITY OF EACH FIGURED ON AVAILABLE AREA (2) CAPACITY FIGURED ON SEATS PROVIDED (3) PERCENTAGE OF USE FIGURED ON (a) AREA (b) SEATS (c) ROOM OCCUPIED

Room No.	Capacity		(3) Percentage of Use in Terms of		
	(1) Fig. on Area	(2) Seats prov.	(a) Available Area*	(b) Occ. Seats	(c) Room occup.
3		34		84	90
7		33		89	100
11		35		86	100
15		36		84	100
17		42		75	100
19		30		74	100
20		35		82	70
22		26		96	90
24		36		67	70
26		31		60	80
28		33		67	70
31		35		72	80
35		35		93	100
37		40		91	100
39		20		54	50
44		40		57	70
203		32		43	70
201		45		64	80
207		37		53	70
209		42		78	90
211		35		82	90
213		42		54	60
215		37		75	80
217		40		92	100
219		32		82	90
227		37		87	90
236		37		40	70
239		25		34	40
250		40		46	70
	T. 1025		Av. 71%	Av. 81%	

*No data available

TABLE II-V

FREQUENCY DISTRIBUTION SHOWING NUMBER OF RECREATION ROOMS AT EACH INTERVAL, FOR TWO OF THE THREE BASES OF COMPUTING PERCENTAGE OF USE

1	2	3	4
:	: Available Area:	: Seats Occ.:	: Rooms occupied :
: Interval:	: No. of rooms :	: No. rooms :	: No. of rooms :
: 0-10 :	:	: 0 :	: 0 :
: 11-20 :	:	: 0 :	: 0 :
: 21-30 :	:	: 0 :	: 0 :
: 31-40 :	:	: 2 :	: 1 :
: 41-50 :	:	: 2 :	: 1 :
: 51-60 :	:	: 5 :	: 1 :
: 61-70 :	:	: 5 :	: 6 :
: 71-80 :	:	: 5 :	: 4 :
: 81-90 :	:	: 6 :	: 6 :
: 91-100 :	:	: 4 :	: 6 :

*No data available

TABLE III-T

THIRTY-FIVE SPECIAL ROOMS SHOWING: (1) AREA
IN SQUARE FEET (2) CAPACITY FIGURED ON STUDENT ACCOMO-
DATIONS ACTUALLY PROVIDED (3) PERCENTAGE OF USE FIGURED
ON (a) STUDENT PROVISIONS (b) ROOM OCCUPIED

Room No.	Use	Capacity		(3) Percentage of Use in	
		(1) Area in sq. ft.*	(2) Seats provided	(a) Student Provision	(b) Room Occup.
Laboratories:					
2			48	56	90
10			30	29	40
12			30	19	30
18	Cooking		24	16	20
210 & 206	(Lab. & Lect.)		72	63	90
212 & 202	(Lab. & Lect.)		78	56	90
214 & 204	(Lab. & Lect.)		78	47	90
		T.	360	Av. 58%	Av. 64%
Drawing					
40			28	22	30
42			27	60	80
48			28	61	80
50			25	63	70
240			28	74	80
242			28	60	90
244			28	76	80
248			28	65	80
		T.	220	Av. 60%	Av. 74%
Shops					
52	Gen. Mach.		30	76	90
68	Pattern		20	80	80
54	Forge		20	80	80
58	Electric		20	98.5	90
56	Auto		20	96	90
70	Cabinet		18	83	50
68	Carp & Mill		18	80	80
		T.	146	Av. 85%	Av. 80%

(Continued on the next page)

Table 1

THE FOLLOWING TABLE SHOWS THE RESULTS OF THE ANALYSES OF THE SAMPLES OF THE SEVERAL TYPES OF STEEL TAKEN FROM THE SEVERAL PLANTS OF THE STATE OF TEXAS.

No.	Description of Sample	Analysis	
		Carbon, %	Manganese, %
1	Steel from Plant A	0.25	0.45
2	Steel from Plant B	0.30	0.50
3	Steel from Plant C	0.28	0.48
4	Steel from Plant D	0.32	0.52
5	Steel from Plant E	0.27	0.47
6	Steel from Plant F	0.31	0.51
7	Steel from Plant G	0.29	0.49
8	Steel from Plant H	0.33	0.53
9	Steel from Plant I	0.26	0.46
10	Steel from Plant J	0.34	0.54

TABLE III-T (Cont.)

Room No. - Use	(1)* Area in sq. ft.	(2) Seats provided	(3) Percentage of Use in Terms of	
			(a) Student provisions	(b) Room occ.
Commercial				
25 Typ.		30	65	90
33 Typ.		30	56	60
225 Typ.		30	86	90
333 Typ.		30	53	60
255 Mech. Cak.		21	57	60
231 Book'g.		<u>35</u>	<u>73</u>	<u>60</u>
		T. 176	Av. 68.3%	Av. 73.3%
Sewing				
220		28	62	90
222		32	54	70
228		23	70	60
230		<u>32</u>	<u>75</u>	<u>90</u>
		T. 120	Av. 70%	Av. 82.5%
Lecture Rooms				
4		40	55	90
60		<u>35</u>	<u>53</u>	<u>60</u>
		T. 95	Av. 43%	Av. 75%
Study				
9 & 13 Double Room		86	97	110

*No data available

Level 2-20 2000

Section 103 Level 2-20 2000				Date of Issue
(1)	(2)	(3)	(4)	
100	100	100	100	100
100	100	100	100	100
100	100	100	100	100
100	100	100	100	100

Page 2 of 2

TABLE IV-T

FREQUENCY DISTRIBUTION SHOWING NUMBER OF SPECIAL ROOMS AT EACH INTERVAL FOR EACH OF THE TWO BASES OF COMPUTING PERCENTAGE OF USE

Interval	Seats Occupied No. of seats	Rooms Occupied No. of seats
0-10%	0	0
11-20	2	1
21-30	2	2
31-40	2	1
41-50	1	1
51-60	8	4
61-70	5	2
71-80	8	10
81-90	4	13
91-100	3	0
100	0	1

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THESE DATA REPRESENTED SUMMARY
OF THE AIR LIFTING DATA OF THE OFFICE OF
THE AIR COMMANDER-IN-CHIEF OF THE USAF

DATE	TIME	TYPE	STATUS
10-10	10-11	1	1
10-11	10-12	1	1
10-12	10-13	1	1
10-13	10-14	1	1
10-14	10-15	1	1
10-15	10-16	1	1
10-16	10-17	1	1
10-17	10-18	1	1
10-18	10-19	1	1
10-19	10-20	1	1
10-20	10-21	1	1
10-21	10-22	1	1
10-22	10-23	1	1
10-23	10-24	1	1
10-24	10-25	1	1
10-25	10-26	1	1
10-26	10-27	1	1
10-27	10-28	1	1
10-28	10-29	1	1
10-29	10-30	1	1
10-30	10-31	1	1

University High School

Table I-U shows the percentage of use of 21 recitation rooms of the University High School. It will be noted that, while the total capacity figured on area is 761, only 567 seats are provided. The University High School consists in an obsolete wooden building surrounded by a conglomeration of portables, shacks, and barns, and under the circumstances the authorities are probably justified in disregarding floor area standards. This, coupled with the fact that the classes are kept as small as possible, accounts for the low figures in percentage columns "a" and "b." Column "c" indicates that the rooms are being used 84.9 per cent of the school day.

Table II-U, giving the frequency distribution of these recitation rooms, places the majority in Column 2 above 51 per cent, in Column 3 above 61 per cent, and in Column 4 above 81 per cent.

Table III-U shows the percentage of use of 12 special rooms. The general average of these rooms is high, the highest group being that of the drawing rooms, which reach 92 per cent in terms of the rooms being occupied. In terms of use of student provisions the laboratories reach highest with an average use of 74 per cent.

In the case of the study room (19), the congestion indicated by the 131 per cent has been partly solved by sending the overflow to

The first part of the report is devoted to a general survey of the situation in the country. It is followed by a detailed account of the work done during the year. The report concludes with a summary of the results and a list of the names of the members of the committee.

The second part of the report is devoted to a detailed account of the work done during the year. It is followed by a summary of the results and a list of the names of the members of the committee.

The third part of the report is devoted to a detailed account of the work done during the year. It is followed by a summary of the results and a list of the names of the members of the committee.

The fourth part of the report is devoted to a detailed account of the work done during the year. It is followed by a summary of the results and a list of the names of the members of the committee.

TABLE IV-U

FREQUENCY DISTRIBUTION SHOWING NUMBER OF SPECIAL ROOMS
AT EACH INTERVAL FOR EACH OF THE TWO BASES OF COMPUTING PER-
CENTAGE OF USE

Interval	Seats Occupied No. of rooms	Room Occupied No. of rooms
0-10%	0	0
11-20	0	0
21-30	0	0
31-40	0	0
41-50	2	1
51-60	1	0
61-70	2	0
71-80	5	1
81-90	1	0
91-100	0	2
100	1	0

ANNEXURE

STATE OF KARNATAKA
 THE GOVERNMENT
 DEPARTMENT OF...

Sl. No.	Name of the Candidate	Age	Grade
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TABLE I-U

TWENTY-ONE RECITATION ROOMS OF THE UNIVERSITY
HIGH SCHOOL SHOWING: (1) CAPACITY OF EACH FIGURED ON
AVAILABLE AREA (2) CAPACITY FIGURED ON SEATS PROVIDED
(3) PERCENTAGE OF USE FIGURED ON (a) AREA (b) SEATS
(c) ROOM OCCUPIED

Room No.	Capacity		(3) Percentage of Use in Terms of		
	(1) Fig. on Area	(2) Seats prov.	(a) Available Area	(b) Occ. seats	(c) Room occupied
2	23	21	78	95	88
3	24	25	75	72	88
4	27	29	58	56	88
6	65	25	26	68	77
7	49	29	41	69	88
8	52	26	36	72	88
9	49	31	40	64	88
10	45	33	40	64	88
11	24	24	57	57	77
14	27	21	58	75	77
16	54	50	57	65	100
17	50	47	64	57	88
18	51	40	47	61	88
21	41	24	29	50	77
21A	28	22	66	84	88
27	46	35	53	70	88
28A	25	20	71	89	88
28B	25	20	56	70	88
32	25	24	70	73	88
33	25	19	67	86	77
34	26	23	54	61	66
T.	761	567	Av. 54%	Av. 68.6%	Av. 84.9%

TABLE II-U

FREQUENCY DISTRIBUTION SHOWING NUMBER OF RECITATION ROOMS AT EACH INTERVAL FOR EACH OF THE THREE BASIS OF COMPUTING PERCENTAGE OF USE

	1	2	3	4
: Avail. Area:Seats Occ.:Room Occ. :				
: Interval: No. rooms :No. rooms :No. of rooms :				
: 0-10% :	0	0	0	0
: 11-20 :	0	0	0	0
: 21-30 :	2	0	0	0
: 31-40 :	3	0	0	0
: 41-50 :	2	1	0	0
: 51-60 :	8	4	0	0
: 61-70 :	3	8	1	1
: 71-80 :	3	4	5	5
: 81-90 :	0	4	14	14
: 91-100 :	0	0	1	1

TABLE 1

STATISTICAL DATA CONCERNING THE
INDUSTRY OF THE UNITED STATES
FOR THE YEAR 1920

Year	1919	1920	1921	1922	1923
Total value of production	100.0	100.0	100.0	100.0	100.0
Manufacturing	85.0	85.0	85.0	85.0	85.0
Construction	10.0	10.0	10.0	10.0	10.0
Transportation	3.0	3.0	3.0	3.0	3.0
Commerce	2.0	2.0	2.0	2.0	2.0
Services	0.0	0.0	0.0	0.0	0.0
Government	0.0	0.0	0.0	0.0	0.0
Unemployed	0.0	0.0	0.0	0.0	0.0
Other	0.0	0.0	0.0	0.0	0.0

TWELVE SPECIAL ROOMS SHOWING:

- (1) AREA IN SQUARE FEET (2) CAPACITY FIGURED ON STUDENT ACCOMODATIONS ACTUALLY PROVIDED
 (3) PERCENTAGE OF USE FIGURED ON (a) STUDENT PROVISIONS (b) ROOMS OCCUPIED

Room No.	Use	Capacity		(3) Percentage of Use in terms of	
		(1) Area in sq. ft.	(2) Seats prov.	(a) Student Prov.	(b) Room occ.
<u>Labors-</u>					
20		651	24	82	100
22		662	23	67	88
26		655	23	72	77
36		904	21	75	88
			T. 91	Av. 74%	Av. 88.2%
<u>Drawing</u>					
23		645	27	60	88
24		662	14	77	88
25		655	24	77	100
			T. 65	Av. 71.3%	Av. 92%
35	Man.Tr.	1480	21	49	44
19	Study	702	68	131	88
15	Library	760	50	77	88
30	Music	1074	46	49	88
37	Millin-	1101	24	66	88
	ery				

SUMMARY

Table V is a compilation of the averages found in the Table I series for each of the 7 Bay Cities High Schools. The capacity of the recitation rooms of each school in terms of actual seats provided as well as in terms of maximum possible number of seats according to standards. The percentage column indicates for each school the average use made of the recitation rooms according to (a) the available area, (b) the seats occupied, and (c) time the rooms are occupied.

In terms of the percentage of use of available area the various schools, with the exception of the Berkeley High School, average a little more than 50 per cent. Oakland averages only 40 per cent for reasons explained in the discussion of Table I-O. The exceptionally high standing of the Berkeley High School is due to the fact that the recitation rooms contain more than the standard number of seats, as shown by the table. In the percentage of actual use made of these seats the school averages 70 per cent. It must be borne in mind that the Berkeley High School is in an unsettled state, owing to the fact that the new building group has not been entirely completed. Some of the classes occupy the new unit, while others are still located in the old buildings. This unsettled condition must be taken into consideration in estimating the

actual use made of the entire plant.

Oversize Rooms

A study of percentage columns "a" and "c" reveals the fact that on the average, while the rooms are occupied 60 per cent of the time, they are only using about 50 per cent of their actual seating capacity. Either the classes are too small, or the rooms are too large for the average size class. A study of the original tabulation sheets reveals the fact that the majority of the classes occupying these rooms number between 30 and 40. Obviously, therefore, many of these recitation rooms are too large for the average class and could never be used up to 100 per cent in terms of every seat being occupied. As an illustration of this, Room 23 of the Alameda High School has an area of 870 square feet, which, in terms of the Strayer-Englehardt standards, should contain 58 seats. The average number of pupils in each class using this room during the day is 29. In this case 58-29, or 29 represents the number of unused seats for the average class. More careful planning of school rooms would result in the utilization of much of this wasted area.

Table VI shows the percentage of use made of the laboratory groups of the East Bay High Schools. The range of use of student

accommodations is from 38 per cent for the Oakland Technical High School to 74 per cent for the University High Schools. It is true that Piedmont High School uses 111 per cent of its student accommodations, but this is because of the fact that the Piedmont High School has but one laboratory and is forced to use it for all purposes of laboratory instruction. The low percentage made by Technical High School is due to the fact that several of the laboratories have lecture rooms attached, which remain unoccupied when the laboratories are in use. This waste space could be utilized by converting the laboratories into combined laboratory-lecture rooms and utilizing the lecture rooms as class-rooms.

Table VII shows the percentage of use of the shop groups of the East Bay Cities High Schools. It will be noted that three of the schools, Fremont High, Oakland High, and Piedmont High, have no shops. Of the remaining four schools, Technical High School ranks highest, both in percentage of use of student provisions and in percentage of use of the rooms. The majority of the Technical High School shops are operated on the Smith-Hughes plan.

Table VIII shows the percentage of use made of the drawing room groups of the Seven East Bay High Schools. It will be noted that in percentage of use of student accommodations, all of the schools fall above 50 per cent, the highest rank being held by Berkeley

The first part of the report deals with the general situation of the country and the progress of the work done during the year. It is followed by a detailed account of the various projects and schemes which have been carried out, and a summary of the results achieved. The report concludes with a statement of the views of the Committee on the progress made and the prospects for the future.

The Committee has been pleased to note the progress made in the various fields of activity, and to be assured that the work is being carried out in a most efficient and economical manner. It is particularly gratified to see that the various projects are being carried out in accordance with the programme of work approved by the Council in 1954, and that the results are of a high standard.

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High School, with an average percentage of use of 77 per cent. In terms of the percentage of use of the rooms all the schools fall above 73 per cent, the highest percentage being 92, that of the University High School.

Table IX shows the percentage of use made of the commercial groups of the various high schools named. This group includes typing rooms, bookkeeping rooms, and machine calculation rooms. In percentage of use of student provisions, the schools range from 54 to 70.8 per cent. Piedmont High School is not considered, as its data is based on one room only, which is used for typing. In the percentage of use of periods the rooms are occupied, the schools range from 52.6 to 77.5 per cent. It will be noted that the Berkeley High School is at either extreme of these ranges, having a percentage of 54 in terms of use of student provisions and a percentage of 77.5 in terms of use of room. Evidently the rooms are used frequently, but the classes are small. This conclusion is borne out by an examination of the original tabulation sheets, which show the classes to be comparatively small in enrollment.

TABLE V

GROUP OF RECITATION ROOMS OF SEVEN BAY CITY HIGH SCHOOLS
 SHOWING: (1) CAPACITY OF EACH FIGURED ON AVAILABLE AREA
 (2) CAPACITY FIGURED ON SEATS PROVIDED (3) PERCENTAGE OF USE
 FIGURED ON (a) AREA (b) SEATS (c) ROOM OCCUPIED

School	Capacity		(3) Percentage of Use in Terms of		
	(1) Fig. on Area	(2) Seats prov.	(a) Avail. Area	(b) Occ. seats	(c) Room occ.
Alameda High	724	623	52	61	75.8
Berkeley "	844	969	90	70	85
Summit "		903		67	74
Oakland "	1443	991	40	56.5	78.6
Piedmont "	479	462	51.5	51.7	77.2
Technical "		1025		71	81
University "	761	567	54	68.6	84.9

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 AND BUREAU OF LANDS, DEPARTMENT OF THE INTERIOR, U.S. GOVERNMENT
 WASHINGTON, D.C.

Section 36						
In compliance with Act of March 3, 1879 (20 Stat. 418)						
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97	1	1	1	1	1	1
98	1	1	1	1	1	1
99	1	1	1	1	1	1
100	1	1	1	1	1	1

TABLE VI

THE LABORATORY GROUPS
OF THE SEVEN BY CITIES HIGH SCHOOLS SHOWING:
(1) CAPACITY BASED ON SEATS PROVIDED (2) PERCENTAGE OF USE
BASED ON (a) STUDENT PROVISIONS (b) ROOMS OCCUPIED

School	(1)		(2) PERCENTAGE	
	Capacity	in terms of	(a)	(b)
	Seats Prov.	Student Prov.	Room occ.	
Alameda High	114	46	53	
Berkeley "	262	52	75	
Emont "	246	65	84.5	
Oakland "	237	58	63	
Piedmont "	24	111	87.5	
Technical "	360	38	64	
University "	91	74	88.2	

BY [Name]

DECLARATION OF [Name]

I, [Name], do hereby declare that the contents of the foregoing [document] are true and correct to the best of my knowledge and belief.

1	1911	1911	1911
2	1912	1912	1912
3	1913	1913	1913
4	1914	1914	1914
5	1915	1915	1915
6	1916	1916	1916
7	1917	1917	1917
8	1918	1918	1918
9	1919	1919	1919
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15	1925	1925	1925
16	1926	1926	1926
17	1927	1927	1927
18	1928	1928	1928
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20	1930	1930	1930

TABLE VII

THE SHOP GROUPS OF THE SEVEN BAY CITIES HIGH SCHOOLS
 SHOWING: (1) CAPACITY BASED ON STUDENT ACCOMODATIONS PROVIDED
 (2) PERCENTAGE OF USE BASED ON (a) STUDENT PROVISIONS
 (b) ROOMS OCCUPIED

School	(1) Capacity		(2) Percentage	
	Seats prov.	Stud. Prov.	(a)	(b)
Alameda High	70		45.3	56
Berkeley "	111		70.5	70
Fremont * "	--		--	--
Oakland* "	--		--	--
Piedmont* "	--		--	--
Technical	146		85	80
University "	21		49	44

*No shops

TABLE 1

Summary of the results of the analysis of variance for the different components of the total variance. The values in parentheses are the degrees of freedom for each component.

Component	df	SS	MS	F	Prob
Total	100	1000	10		
Between groups	10	100	10	10	0.01
Within groups	90	900	10		
Factor A	5	50	10	10	0.01
Factor B	5	50	10	10	0.01
Factor C	5	50	10	10	0.01
Factor D	5	50	10	10	0.01
Factor E	5	50	10	10	0.01
Factor F	5	50	10	10	0.01
Factor G	5	50	10	10	0.01
Factor H	5	50	10	10	0.01
Factor I	5	50	10	10	0.01
Factor J	5	50	10	10	0.01
Residual	80	800	10		

TABLE VIII

THE DRAWING GROUPS OF THE SEVEN BAY CITIES HIGH SCHOOLS
 SHOWING: (1) CAPACITY BASED ON SEATS PROVIDED
 (2) PERCENTAGE OF USE BASED ON (a) STUDENT PROVISIONS
 (b) ROOMS OCCUPIED

School	(1)	(2) Percentage	
	Capacity	in Terms of	
	Seats prov.	(a) Stud. prov.	(b) Room occ.
Alameda High	43	69	82.5
Berkeley "	101	77	77
Fremont "	123	66	77
Oakland "	119	57	73.3
Piedmont "	50	50	75
Technical "	220	60	74
University "	65	71.3	92

APPENDIX

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TABLE IX

THE COMMERCIAL GROUPS OF THE SEVEN BAY CITIES HIGH SCHOOLS
SHOWING: (1) CAPACITY BASED ON SEATS PROVIDED
(2) PERCENTAGE OF USE BASED ON (a) STUDENT PROVISIONS
(b) ROOMS OCCUPIED

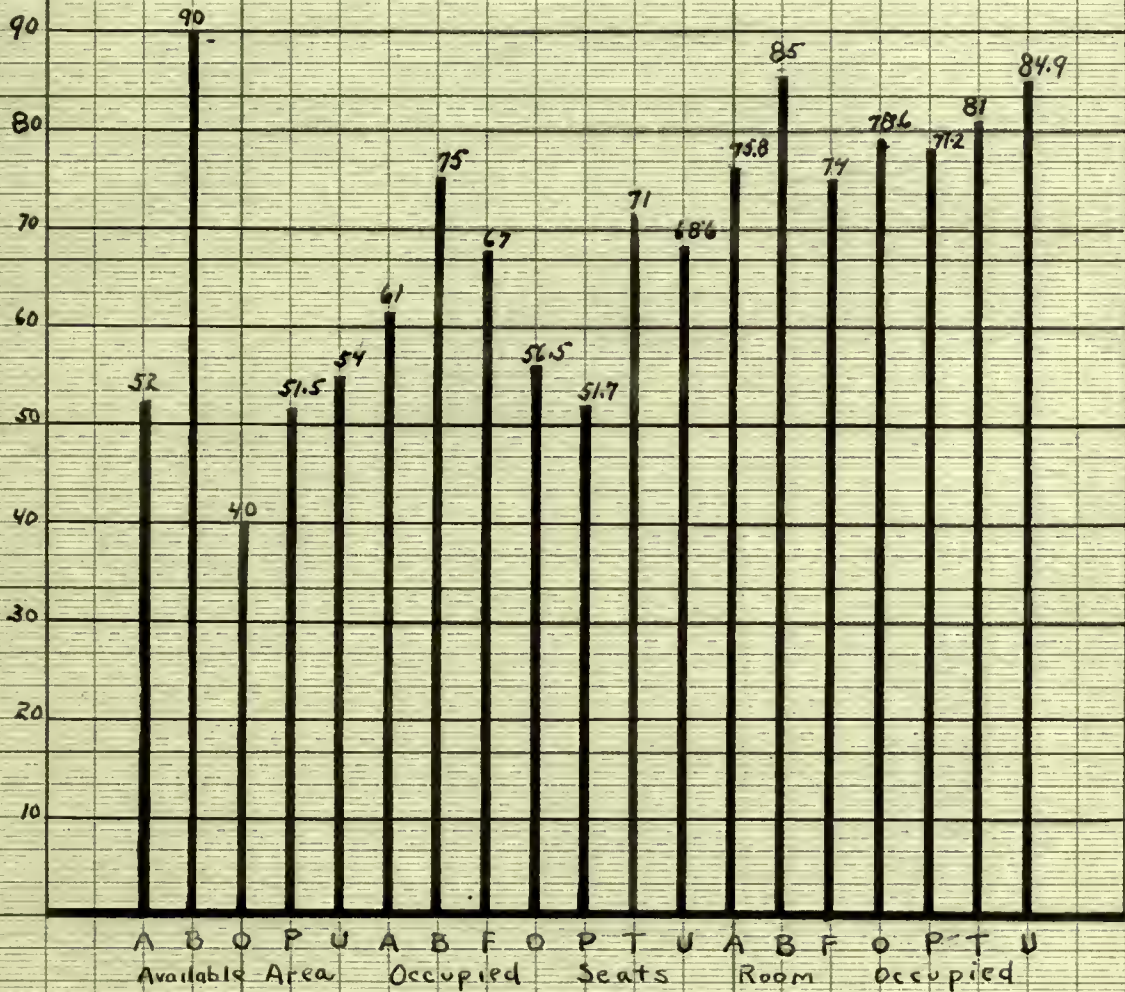
School	(1)	(2) Percentage	
	Capacity	in terms of	
	((a)	(b)
	Seats prov.	Stud. prov.	Room occ.
Alameda High	144	61	52.6
Berkeley "	77	54	77.5
Fremont "	296	60	82
Oakland "	188	70.8	88
Piedmont "	15	39	50
Technical "	176	68.3	73.3
University "	—	—	—

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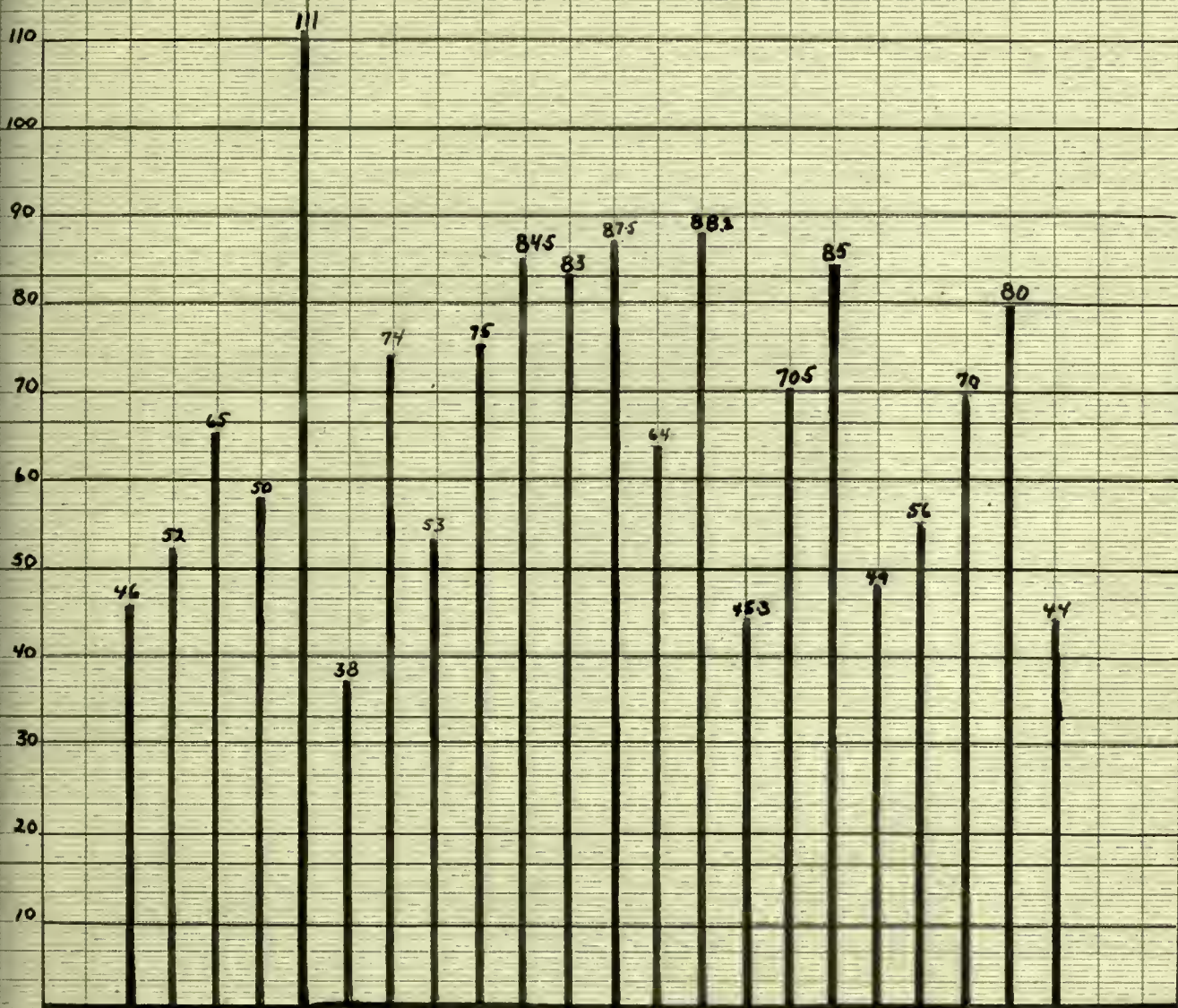
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91	100	100	100	100

Percentage



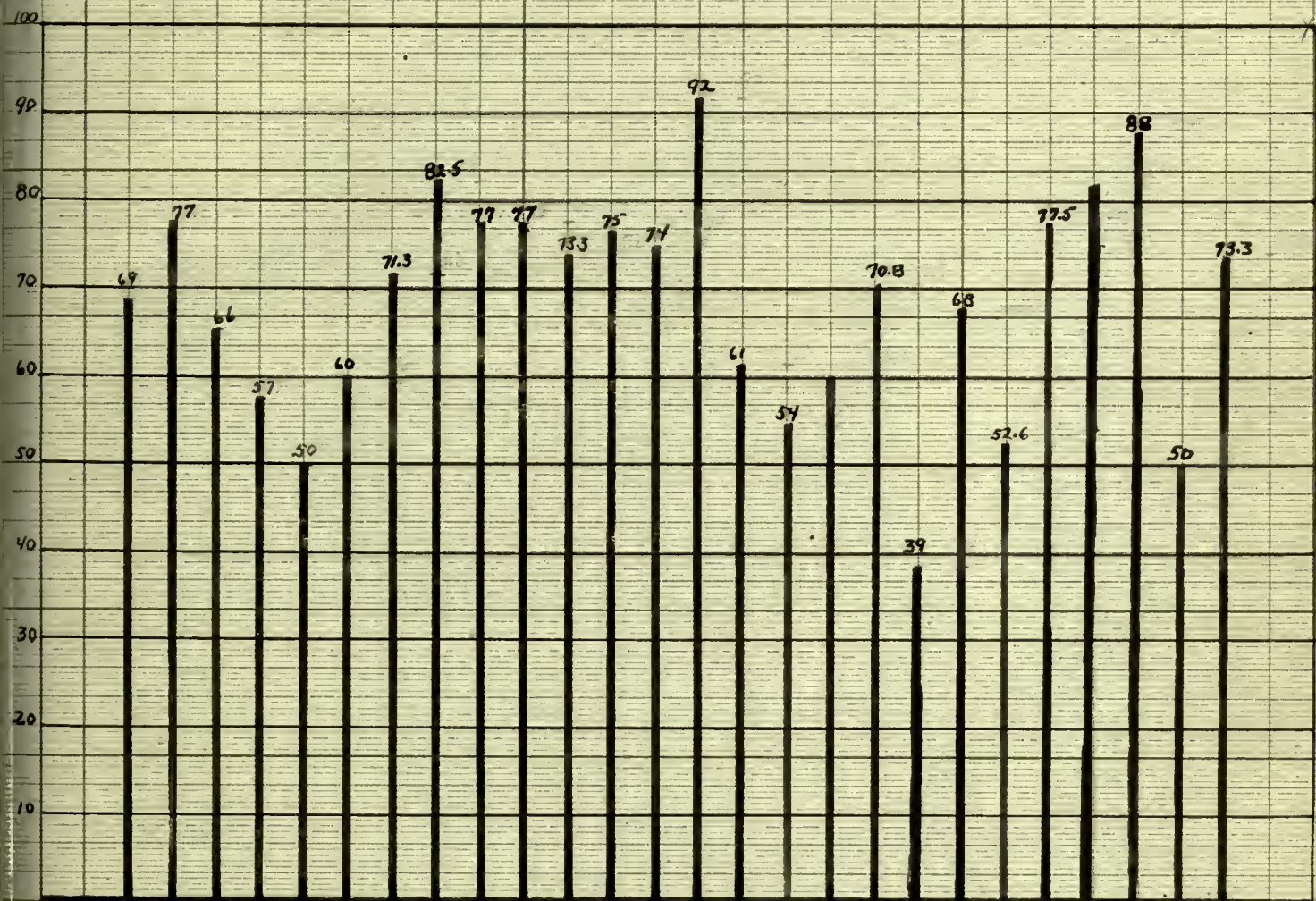
Percentage of Use of Recitation Rooms.

CHART I



Percentage of Use of Laboratories and Shops

CHART II



A B F O P T W A B F O P T U A B F O P T
 Student Provision Room Occupied Student Provision Room Occupied
 Drawing Rooms Commercial Rooms

Percentage of Use of Drawing Rooms and Commercial Rooms

CHART III





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