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ABSTRACT

Thirty-eight tables and some commentary summarize data in accordance with such factors as: type of room, days and/or hours used, student capacity, floor space, and comparisons with other institutions. (NI)



A STUDY OF THE UTILIZATION OF INSTRUCTIONAL SPACE AT VALPARAISO UNIVERSITY

FALL SEMESTER 1957-1958

BY

PAUL E. THUNE REGISTRAR

Prepared for President O. P. Kretzmann upon the recommendation of Dr. Albert F. Scribner, Vice President, Breiness and Finance

July 1959

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U.S. DEPARTMENT OF HEALTH. EDUCATION

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INTRODUCTION

In compiling the data for this study, the forms suggested by Dr. John Dale Russell and Dr. James I. Doi in their published Manual for Studies of Space Utilization in Colleges and Universities were followed.

In discussing this study with Dr. Scribner, it was decided to use the latest fall semester figures available as it was felt that this semester was the peak load of the University's academic year. It is realized in this study that there are certain limitations—limitations regarding the facts that no consideration is given to (1) the quality of instructional space, (2) other types of plant space other than that used for instructional purposes, and (3) the matter of space integration. It is hoped that this study can be followed by other studies showing the use of space for faculty office purposes, administrative office purposes, library purposes, facilities for public meetings and entertainment, and student housing facilities.

The advice of Dr. Scribner and several members of the University's faculty, notably, Associate Professor Kenneth Hortimer of the College of Engineering, is greatly appreciated.

For various reasons, all of the rooms and classes scheduled during the Fall Semester 1957 were not used in this report. Tables 1 and 2 explain the exclusion of these rooms and classes.

John Dale Russell and James I. Doi, Manual for Studies of Space Utilization in Colleges and Universities. Athens, Ohio: American Association of Collegiate Registrars and Admissions Officers, 1957.



TABLE 1

LIST OF CLASSES BY DEPARTMENTS AND REASONS WHY THEY WERE NOT USED IN THE STUDY OF THE UTILIZATION OF INSTRUCTIONAL SPACE AT VALPARAISO UNIVERSITY,

FALL 1957

DEPARTMENT	COURSE NUMBER	REASON(S)
Biology	191	Held in instructor's office.
	195	Arranged class could not be readily identified.
Business and Economics	199	Held in instructor's office.
Chemistry	103-Laboratory	Arranged class could not be readily identified.
Education	124-Laboratory	Arranged class could not be readily identified.
	182	Held in instructor's office.
	192,3,4,5,&6	Supervised Teaching classes.
Foreign Languages	153-French	Held in instructor's office.
	155-French	Held in instructor's office.
	151-Greek	Held in instructor's office.
Ma thematics	195	Held in instructor's office.
Music	Applied courses) Ensemble courses) 13-Laboratory) 63-Laboratory) 101,5,7,55,57,97)	Held in offices and studios.
Physical Education	1-Women 2-Men and Women 51A,B,C,D-Men & Women 71,81,91,3,5,121, 127,151,159,171, 181,196,197,51E-N;	Held in Health & Physical Educ. Building-Gym or recreational room; held in the Valparaiso Union Building; held in the YMCA or arranged class.
Religion	913 sections	Held in Valparaiso Union Building
	161	Held in instructor's office.
Speech and Drama	00,61,151,166	Held in instructor's office.
Engineering	GE 195	Arranged class could not be readily identified.
Law	115,125	Held in Law Library.
ERIC.	203	Held in Valparaiso Union Building

LIST OF TOOMS AND CLASONS WHY THEY WERE NOT USED IN THE STUDY OF THE UTILIZATION OF INSTRUCTIONAL SPACE AT VALPARAISO UNIVERSITY, FALL 1957.

ROOM	REASON
A-L -3,	Not scheduled for a class.
A-L -11	Primary purpose - Law Library
A-L -35	Primary purpose - Office
в -2	Primary purpose - Office
EL -33,4,5,41,7,51	Not scheduled for a class,
GG -213	Primary purpose - Office
Gym and recreational room	
KH - 40	Not scheduled for a class.
KR - 43	Primary purpose - Office
L-M -3	Bandroom
L-M -101,5,301	Primary purpose - Office
Library 204,06	Primary purpose - Office
Music -102,204,14	Primary purpose - Office
Music Practice Rooms	
Sc3B,7	Not scheduled for a class.
Valparaiso Union - Rooms B & C	Primary purpose - Meeting Rooms
Valparaiso Union - Bowling Alley	
YHCA	



INSTRUCTIONAL SPACE

The Russell and Doi Manual states that "There are two principal ways by which a college can accommodate more students. One is to enlarge the physical plant. The other is to make more effective use of existing facilities." Since this study concerns the latter, it is believed best that the instructional space for general classrooms, special classrooms, and laboratory facilities be analyzed separately. The definition of each type of instructional space is as follows:

GENERAL CYASSROOM

A general classroom is an instructional room that may be used for most classes of the recitation or lecture type.

SPECIAL CLASSROOM

A special classroom is an instructional room that is furnished with special equipment to best serve the needs of certain course requirements.

TEACHING LABORATORY

A teaching laboratory is an instructional room equipped for a special purpose.

In this study we have compiled data for forty-one general classrooms, six special classrooms, and twenty-seven teaching laboratories.

Upon examining the data collected in Tables 3 through 17, some of the most interesting and significant findings are as follows:

GENERAL CLASSROOMS

In Table 3 it is noted that in a 40-hour week, Valparaiso University is utilizing these rooms on an average of 68 per cent of the time and that in a 44-hour week, it is utilizing these rooms on an average of 62 per cent of the time. It is also noted that in a 40-hour week, the University is effectively



using each student-station (seat) on an average of 33 per cent of the time, and that in a 44-hour week it is effectively using each student-station on an average of 30 per cent of the time. On an average, during those hours when the rooms are in use, 49 per cent of the student-stations are occupied.

Table 4 shows the instructional room utilization by days of the week, and it is noted that on Monday, Wednesday, and Friday the rooms are occupied approximately 80 per cent of the total available time based on an 8-hour day. On Tuesday and Thursday the rooms are occupied approximately 48 per cent of the total available time based on an 8-hour day. Saturday the rooms are occupied approximately 1 per cent of the total available time.

Table 5 shows the instructional space utilization by hours of the day. The highest utilization of rooms at Valparaiso University occurs at the second (8:50-9:40) period of the day and the lowest utilization of rooms occurs at the eighth (3:30-4:20) period of the day. Furthermore, the average utilization of the rooms is more than 70 per cent except for the fourth (11:30-12:20) and fifth (12:30-1:20) periods and after the close of the sixth (1:30-2:20) period of the day.

Table 6 shows the instructional space utilization by rooms of different size.

Here it is noted that the largest number of classrooms (11) have a capacity of
41-50 student-stations. These rooms are occupied 65 per cent of the maximum hours
possible based on a 40-hour week and approximately 60 per cent of the studentstations are occupied when these rooms are in use. The next largest number of
classrooms (9) has a capacity of 61-80 student-stations. These rooms are occupied
73 per cent of the maximum hours possible based on a 40-hour week and approximately
48 per cent of the student-stations are occupied when these rooms are in use.

The one very large room (Kroencke Hall 34-theatre) is used as a general classroom
in this study and it is occupied 62 per cent of the maximum hours possible based
on a 40-hour week. When it is being used, only approximately 14 per cent of the



student-stations are occupied. In contrast, the two classrooms of 101-150 studentstation capacity show comparable figures of 67 per cent for usage and 44 per cent for student-station occupancy.

Table 7 shows the number of class-period meetings per week by size of class in relationship to capacity of the room in which classes are held. Here it is seen that 64 per cent of the class-period meetings are for classes with 30 students or less while approximately 12 per cent of the class-period meetings are conducted in rooms with a student-station capacity of 30 or less. To carry this point one step further, 97 per cent of the class-period meetings are for classes with 60 students or less while 66 per cent of the class-period meetings are conducted in rooms with a student-station capacity of 60 or less.

SPECIAL CLASSROOMS

Tables 8 through 12 are the same as Tables 3 through 7 except the data was compiled separately for these mix special rooms. In general, when the special rooms are in use, the utilization is much greater than for the general classrooms. The use of these rooms by the days of the week is much more uniform than in the case of the general classrooms. It is further pointed out that the time occupancy pattern follows that of the general classrooms, heaviest use occuring during the second (8:50-9:40), third (9:50-10:40), and fifth (12:30-1:20) periods.

TEACHING LABORATORIES

While the nature of the present class schedule necessitates that most laboratories at Valparaiso University be conducted in the afternoon hours, Table 13 points out that the teaching laboratories are still occupied on an average of 41 per cent of a 40-hour week. When these laboratories are in use, the average student-station occupancy is 66 per cent. However, it is noted that in the basic biology laboratories (B-1 and B-4) they are used better than 75 per cent of the time. When these laboratories are in use, they have a student-station utilization

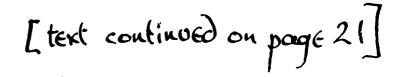




TABLE 3

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SUMMARY OF UTILIZATION DATA BY GENERAL CLASSROCMS AT VALPARAISO UNIVERSITY, FALL 1957

Percentage of Poss. Room-Period Use 40 Hrs. 44 Hrs. 40.0 44 Hrs. 40.0 44 Hrs. 44 Hrs. 44 Hrs. 82.5 75.0 90.0 81.8 90.0 81.8 90.0 81.8 92.5 84.0 82.5 75.0 82.5 75.0 82.5 75.0 40.0 36.3	Room Use. Weekly	Basis	Student	Student-Station	Use. We	Weekly Besis	1.0
## Room Room Room-Period Use ## Kent ## Kent	Total	of Poss.	Total		% of Po	Possible	30 Z
ex Student- Periode 40 Hre. 44 Hre. 44 Hre. 5	of Koom	od Use	Student	Hrs. Per	Station	Use	Station
ex 103 26 33 82.5 75.0 ex 103 26 33 82.5 75.0 ex 107 39 27 67.5 61.3 ex 107 39 27 67.5 61.3 ex 107 39 27 67.5 61.3 ex 203 19 23 57.5 52.2 ex 203 18 45.0 40.9 ex 39 18 45.0 40.9 ex 31 51 37 92.5 84.0 ex 34 58 33 82.5 75.0 res 34 58 33 82.5 75.0 res 34 58 33 82.5 75.0 res 36 33 82.5 75.0 res 36 36 36.3 36.3 res 36 36 36.3 36.3 <th>Periode</th> <th>F.8.</th> <th></th> <th>Station</th> <th>• 8:</th> <th>44 Brs.</th> <th>Use When</th>	Periode	F.8.		Station	• 8:	44 Brs.	Use When
ex 103 26 33 82.5 75.0 ex 107 39 27 67.5 61.3 ex 203 19 23 57.5 61.3 ex 203 19 23 57.5 52.2 ex 203 19 23 57.5 61.3 ex 203 19 23 57.5 61.3 ex 203 18 45.0 80.0 81.8 ex 39 18 45.0 40.9 ex 31 51 37 92.5 84.0 ex 58 33 82.5 75.0 res 70 116 23 57.5 52.2 res 15 80 16 40.0 36.3	Of Use		Periods		Week	Week	Room Act-
ex 103 26 33 82.5 ex 107 39 27 67.5 ex 203 19 23 57.5 ex 203 19 23 57.5 ex 203 19 23 57.5 ex 203 18 45.0 ex 34 39 18 45.0 ex 31 51 37 92.5 ex 34 58 33 82.5 10 116 23 57.5 11 15 80 16 40.0			Occup 1ed				ually in Use
ex 107 39 27 67.5 ex 203 19 23 57.5 ex 203 19 23 57.5 1 74 36 90.0 23 45 22 55.0 24 39 18 45.0 31 51 37 92.5 33 62 33 82.5 34 58 33 82.5 37 116 23 57.5 37 116 23 57.5 37 40.0 16 40.0	33	75.0	483	18.5	46.4	42.2	56.2
203 19 23 57.5 1 74 36 90.0 23 45 22 55.0 24 39 18 45.0 31 51 37 92.5 33 62 33 82.5 1^1 116 23 57.5 15 80 16 40.0	27	61.3	869	17.8	44.7	9.04	66.3
1 74 36 90.0 23 45 22 55.0 24 39 18 45.0 31 51 37 92.5 33 62 33 82.5 34 58 33 82.5 10 116 23 57.5 15 80 16 40.0	23	52.2	262	13.7	34.45	31.3	59.9
24 39 18 45.0 . 31 51 37 92.5 33 62 33 82.5 34 58 33 82.5 37 116 23 57.5 34 58 33 57.5 15 80 16 40.0	36	81.8	1532	20.7	51.7	47.0	57.5
24 39 18 45.0 31 51 37 92.5 33 62 33 82.5 34 58 33 82.5 10 116 23 57.5 15 80 16 40.0	22	50.0	633	14.0	35.1	31.9	63.9
31 51 37 92.5 33 62 33 82.5 34 58 33 82.5 10 116 23 57.5 15 80 16 40.0	18	6.04	354	9.0	22.6	20.6	7.05
33 62 33 82.5 34 58 33 82.5 10 116 23 57.5 15 80 16 40.0	37	0.48	1198	23.4	58.7	53.3	7** 9
34 58 33 82.5 10 116 23 57.5 15 80 16 40.0	33	75.0	1188	19.1	47.9	43.5	58.0
10 11 11 11 15 80 16 40.0	33	75.0	1015	17.5	43.7	39.7	53.0
15 80 16 40.0	23	52.2	1285	11.0	27.6	25.1	48.1
	16	36.3	7.4	5.9	14.8	13.4	37.0
Foundry Annex 5 53 24 60.0 54.5	24	54.5	817	15.4	38.5	35.0	64.2

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TABLE 3 (CONTINUED)

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					. Don't		Chudent-Station !	HER. WAR	Waskly Basis	
			8	USE, WEEKLY DARKE	Daste			y of D	of Doesthin	7 of
	E 0 0	No. of	Total Room	Room-Per:	Percentage of Foss Room-Period Use	Student	Brs. Per	Station	Station Use	Station
Surpring	Q	Student-	Periods	40 Hrs.	44 Brs.	Station	Station	40 Brs	Veek	Jee When Room Act-
		Stations	# # TO		4	Occup ied				ually in Use
	109	39	26	65.0	59.0	687	17.6	44.0	40.0	67.7
Gratand matt	110	02	33	82.5	. 0.5%	1173	16.7	41.8	38.0	50.7
Grammich Grown	110	73	31	77.5	70.4	839	11.4	28.7	26.1	37.0
Creaming of Cream	112	52	38	95.0	86.3	1107	21.2	53.2	48.3	56.0
drong commend	114	89	33	82.5	75.0	828	12.1	30.4	27.6	36.8
Greenwich Grown	116	E	30	75.0	68.1	1004	15.6	39.2	35.6	52.2
Greenwich Group	124	95	32	80.0	72.7	1088	11.4	28.6	26.0	35.7
	201	16	17	42.5	38.6	112	7.0	17.5	15.9	41.1
Creentoh Gram	202	23	25	62.5	56.8	229	6.6	24.8	22.6	39.8
Greenwich Group	204-6		25	62.5	56.8	1002	16.7	41.7	37.8	8.99
Greenwich Group	207		23	57.5	52.2	198	12.3	30.9	28.1	53.8
Weine Hall	•	26	12	30.0	27.2	255	9.8	24.5	22.2	81.7
Transfer dell	7-9	57	29	72.5	65.9	768	13.4	33.6	30.6	46.4
Kroencke untt					1					

(CONTINUED)



TABLE 3 (CONTINUED)

			Room 1	TRP Weekly Besis	r Besis	Stude	Student-Station	1	skly Basis	18
				Percentees of Po	A of Poss	Total	Student	Z of Possible	ł	1% of
Building	Room	No. of	Room	Room-Peri		Student	Hrs. Per	Station		Station
0	No.		Pariods Of Use	40 Brs. 44 Br Week Week	44 Brs. Week	Station	Station	40 Hrs. 44 Hrs Week Week		Use When Room Act-
						Occupied				ually in Use
Kroencke Hall	10	53	*	85.0	77.2	731	13.8	34.4	31.3	40.5
Kroencke Hall	13	41	28	70.0	63.6	542	13.2	33.0	30.0	47.2
Kroencke Hall	12	77	31	77.5	70.4	903	20.5	51.3	9.97	66.2
Kroencke Hall	13	39	32	80.0	72.7	711	18.2	45.5	41.4	56.9
Kroencka Hall	15-17	41	27	67.5	61.3	828	20.1	50.4	45.8	74.7
Kroencke Hall	*	250	25	62.5	56.8	862	3.4	8.6	7.8	13.7
Tanguage-Music	203	42	32	80.0	72.7	679	16.1	40.4	36.7	50.5
Language-Music	204	67	30	75.0	68.1	796	16.2	40.6	36.9	54.1
Language-Music	303	47	24	0. 09	54.5	513	10.9	27.2	24.8	45.4
Language-Music	304	42	25	62.5	56.8	631	15.0	37.5	34.1	0.09
Memorial Basement	15	43	1.7	42.5	38.6	574	13.3	33.3	30.3	78.5
Vemorial Recement	17	45	25	62.5	56.8	733	16.2	40.7	37.0	65.1
Sefence	12	63	29	72.5	62.9	1025	16.2	40.6	36.9	56.1

(CONTINUED)



TABLE 3 (CONTINUED)

			Room	Room Use, Weekly Basis	y Basis	Stud	Student-Station Use, Weekly Basis	n Use, W	eckly Ba	ists
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	9	, o	Total	Parcentage of Pos	ge of Poss.	Total Student	Student Hrs. Per	% of Possible Station Use	ssible Use	% of Station
Surpring	No.	Stations	Periods Of Use	40 Brs. Week	44 Hrs. Wook	Station Periods Occupied	Station	40 Hrs. Week	44 Brs Week	40 Hrs. 44 Hrs Use When Week Week Room Act- ually in
										Usa
	15	120	31	77.5	70.4	1557	12.9	32.4	29.4	41.8
	1. 6	77	22	0.55	50.0	723	11.2	28.2	25.6	51.3
Science	777	5								
Sefence	22	45	28	70.0	63.6	726	16.1	40.3	36.6	57.6
										٠
TOTAL	41	2349	1119	×	×	31763	×	×	×	×
	>	*	27.2	68.2	62.0	×	13.5	33.8	30.7	48.7
AVERAGE										



OF INSTRUCTIONAL ROOM UTILIZATION BY DAYS OF THE WEEK FOR CENERAL CLASSROOMS AT VALPARAISO UNIVERSITY, FALL 1957 SUPPLY

- Total available room-periods each day: 1. Based on institution's schedule (Total rooms X no. of periods in institution's daily schedule) 328; Thurs. 328; Fri. 328; Sat. 328; Tues. 328; Wed. Mon.
- 328 164 Each day, Monday through Friday (Total rooms X 8)_ Saturday (Total rooms X 4)_ Based on 44-period week
- 2349 Total number of student-stations in this group of rooms
- Total available student-station-periods each day: 1. Based on the institution's schedule (Total student-stations X no. of periods in the institution's daily schedule) 18792 ; Sat. 18792; Fri. .; Thurs. 18792; Wed. 18792 .; Tues. Mon. 18792
- 18792 9386 Each day, Monday through Friday (Total student-stations X 8)_ Saturday (Total student-stations X 4) Based on 44-period week 7

Day		Room-Period Use	Use	ł		Student-Sta	Student-Station-Period Use	•
, A	Total Room-	Av. Room- Periods	% of Possible Utilization	ible ion	Tot.Stdt. Stat.Pds.	Av. Stud- ent Hrs.	% of Possible Utilization	.ble .on
Week	Periods Used	Use for Day	Based on Inst. Sch.	Based on Wk44Pd	Occupied	Per Station.	Based on Inst. Sch.	Based on Wk44 Pd
Monday	271	6.6	82.6	82.6	7887	3.3	41.9	41.9
Tuesday	170	4.1	51.8	51.8	4702	2.0	25.2	25.2
Wednesday	278	6.7	84.7	84.7	7969	3.3	42.4	42.4
Thursday	149	3.6	45.4	42.4	4105	1.7	21.8	21.8
Friday	249	6.0	75.9	75.9	7089	3.0	37.7	37.7
Saturday	2	•	•	1.2	11	ŧ	•	0.11

OF INSTRUCTIONAL SPACE UTILIZATION BY HOURS OF THE DAY FOR CENERAL CLASSROOMS AT VALPARAISO UNIVERSITY, PALL 1957 SUMMARY

	•
onr:	•
each !	
y at	
veekl	•
eriods	•
s room-periods weekly at each hour;	
available 1	
Total	
Ä	

- ed on institution's schedule (For each hour, enter in first column the number of rooms in category X number of days in the week classes may meet at that hour)
 - Based on 44-period week (Enter in 2nd column)

 a. Morning hours (number of rooms in category X 6)

 b. Afternoon hours (number of rooms in category X 5)

 205

2349 205 Total number of student-stations in this group of rooms Total available student-station-pariods weekly at each hour:

Based on institution's schedule (For eachbour, enter in third column number of student stations in category X number of days in the week classes may meet at that hour)

Based on 44-period week (Enter in 4th column) a. Morning hours (no. of student stations X 6)

X 6) 14094

11745 Afternoon hours (no. of student stations X 5)

	Total /	1 Available	Total A	Total Available		Total	Perc	Percentage of Possible Utilization	ssible Uti	lization
	NOOB.	Room-Periods	Station	Station-Periods	Tota1	Student-	Room-Pe	Room-Period Basis	Stud-Sta	Stud-Station-Period Basis
H	Sased on	Based on	Based on	Based on	Loom	Station-	gased on	Based on	Based on Based on	Based on
<u> </u>	Instit.	Wk. of	Instit.	Wk. of	Periods	Periods	Instit.	Wk. of	Instit.	Wk. of
SG	Schedule	44 Periods	Schedule	44 Periods	Used	Occp. Wkly	Schodule	44 Per.ods	Schedule	44 Periods
-					C	87				
+	205	246	11745	14094	971	7657	71.2	59.3	39.1	32.5
1	205	246	11745	14094	161	7675	93.1	77.6	46.7	38.9
9:50-10:40	205	245	11745	14094	178	5663	86.8	72.3	43.2	40.1
5	205	246	11745	14094	133	3784	64.8	54.0	32.2	26.8
	205	- * *	11745	:	132	3712	64.3	3 9 9	31.6	: :
	205	205	11745	11745	149	4127	72.6	72.6	35.1	35.1
-	205	205	11745	11745	116	2630	56.5	56.5	22.4	22.4
+	205	205	11745	11745	39	1008	19.0	19.C	8.5	8.5
+					22	172				
-					9	89				
-					2	58				
-					1	2				
-					1	4				
9-30-10-20										



TABLE 6

OF UTILIZATION OF INSTRUCTIONAL SPACE IN ROOMS OF FACH SIZE FOR GENERAL CLASSROOMS AT VALPARAISO UNIVERSITY, FALL 1957 SUPPLYEY

ber f Number dent of ta- Rooms ns of n each m size 3	Total Avail able Room Periods Based Base on on	A *** 4.1 -												
f Number dent of ta- Rooms ns of n each m size	Peri Pased on	WARTT -		Total Avail-	Avail-			Percentage	tage of			Percentage	Jo	30 %
dent of ta- Rooms ns of n each n size 3	Peri Based on	e e e e e e e e e e e e e e e e e e e	Total	able S	able Student-		Average	Possible	ible		Average	Possible		Sta-
dent of ta- Rooms ns of n each m size 3 3	Based	ods	Student	station	station periodsTotal	Total	Room-	Utilization	ation	Total	Student	Utilisation		tion
ca- Rooms ns of n each m size 3 3	uo	Based	Stations	Based	Based	Room-	Periods	Based	Basad	Student-	Hours	Based	Besed	Use
n each m size 3 3	•	uo	In each	uo	no	periods	Use for	g	uo	Station-	Per	on	uo	When
n each m size 3	Instit.	Week	Group	Instit.	Wesk	Used	Week	Instit.	-	Periods	Week	Instit.	Week	Loom
8	Sched-	97 Jo	30	Sched-	of 44			:>ched-	of 44	Occup.ted	Per	Sched-	of 44	in
	ule	Periods	Rooms	ule	Periods			ule	Periods		Station	ule	Periods	Use
	120	132	51	2040	2244	63	21.0	52.5	47.7	572	11.2	28.0	75.4	53.1
	120	132	75	3000	3300	70	23.3	58.3	53.0	296	12.8	32.2	29.3	55.4
-	160	9/1	156	6240	7989	103	25.7	64.3	58.5	2450	15.7	39.2	35.7	60.69
77 00-1	0777	787	787	19360	21296	289	26.2	9.59	59.7	7558	15.6	39.0	35.4	59.4
2 09-1	280	308	384	15360	16896	220	31.4	78.5	71.4	8638	17.2	43.2	39.2	55.2
6 08-1	360	366	819	24720	27192	263	29.2	73.0	7.99	8786	14.2	35.5	32.3	47.9
1-100	0 †	777	36	3800	4180	32	32.0	80.0	72.7	1088	11.4	28.6	26.0	35.7
1-150 2	80	88	236	0776	10384	54	27.0	67.5	61.3	2842	12.0	30.1	27.3	44.4
1-200							-		~~~					
1-250 1	70	777	250	10000	11000	25	25.0	62.5	56.8	862	3.4	8.6	7.8	13.7
L and			(P)		d v. gov									
over			144 gand			-4 pm								



TABLE 7

DISTRIBUTION OF THE NUMBER OF CLASS-PERIOD MEETINGS PER WEEK BY SIZE OF CLASS IN RELATIONSHIP TO CAPACITY OF THE ROOM IN WHICH CLASSES ARE HELD FOR GELERAL CLASSROOMS AT VALPARAISO UNIVERSITY, FALL 1957

			Z	umber o	Number of Class-Period Meetings	-Period	Meetin	Per	Veek						
		4		For	Classes	s of La	of Lach Group	ام ر		:	;				
Room	1	11	21	31	17	51	19	81	101	151	201	251			Cum.
. d.	to	40	ţ	to C	to	S.	Ç	to	to	to	to	and	Total	Total Percent-	Percent-
	10	20	30	07	50	60	80	100	150	200	250	OVET		age	186
1-10															
11-20	70	23											63	5.63	5.63
21-30	19	37	14										70	6.26	11.89
31-40	5	23	62	13									103	9.20	21.09
41-50	23	55	106	0/	35								289	25.83	46.92
51-60	14	39	75	17	25	26							220	19.66	66.58
680	6	31	86	0/	35	27	5						263	23.50	80.08
81-100		3	15	9	5		3						32	2.86	92.94
101-150	F4	10	6	7	7	2	80	7	9				54	68.4	77.76
151-200	~														
201-250		14	3	2	3			2			1		25	2.23	100,00
251 and					100										
OVET												n Han and			
Total	111	235	370	5 06	110	58	16	9	9		1		1119	100.00	
Percent.	9.92	21.00	33.07	18.41	9.83	5.18	1.43	75.	75.		80*			100.001	
C.m. 7.	9.92	30.92	63.99	82.40	92.23	14.76	98.84	98.38	99.92		100.00				



TABLE 8

OF UTILIZATION DATA BY SPECIAL CLASSROOMS AT VALPARAISO UNIVERSITY, FALL 1957 SUMMARY

			Room Us	Use. Weekly Besis	Besis	Student	Student-Station Use. Weekly Basis	Use. Week	clv Basis	
	Room	No. of	1	Percentag Room-Peri	Percentage of Poss. Room-Period Use	Total Student	Student Hrs. Per	% of Possible Station Use	stble Use	% of Station
Building	No.	Student- Stations	Periods Of Use	40 Hrs. Week	40 Hrs. 44 Hrs. Week Week	Station Periods Occupied	Station	40 Hrs.	44 Ars Week	44 Hrs Use When Week Room Act-ually in Use
Bookstore Elem. Art	•	31	16	u*9 7	36.3	430	13.8	34.6	31.5	86.6
Engineering Lab	23	21	12	30.0	27.2	219	10.4	26.0	23.7	86.9
Engineering Lab	42	22	7	17.5	15.9	126	5.7	14.3	13.0	81.1
Graland Hall	107	61	40	100.0	6.06	1306	21.4	53.5	48.6	53.5
Music	206	29	28	70.0	63.6	292	10.0	25.1	22.8	35.9
Science	23	26	25	62.5	56.8	588	22.6	56.5	51.3	7.06
Total	Ç	190	128	×	×	2961	×	×	×	×
Average	H	X	21.3	53.3	48.4	×	15.5	38.9	35.4	61.6



SUMMARY OF INSTRUCTIONAL ROOM UTILIZATION BY DAYS OF THE WEEK FOR SPECIAL CLASSROOMS AT VALPARAISO UNIVERSITY, FALL 1957

A.		available room-periods each day:
	1.	Based on institution's schedule (Total rooms X no. of periods in institution
		daily schedule)
		Mon. 48; Tues. 48; Wed. 48; Thurs. 48; Fri. 48; Sat.
	2.	Based on 44-period week
		Each day, Monday through Friday (Total rooms X 8) 48
		Saturday (Total rooms X 4)
B.	Total	no. of student-stations in this group of rooms 190
		available student-station-periods each day:
		Based on the institution's schedule (Total student-stations X no. of periods
		in the institution's daily schedule)
		Mon. 1520 : Tues. 1520 : Wed. 1520 : Thurs. 1520 : Fri. 1520 :

2.	Based on 44-period week	
	Each day, Monday through Friday (Total student-stations X 8)_	1520
	Saturday (Total student-stations X 4)	760

		Room-Perio	d Use		Studen	t-Station-	Period Use	
Day	Total Room-	Av. Room- Periods	% of Pos Utiliza	=		Av.Stud- ent Hrs.	% of Pos Utiliza	sible
of Week	Periods Used	Use for Day	(Based on Wk44 Pd	Occupied	Per Station	Based on Inst. Sch	Based o Wk44-
Monday	30	5.0	62.5	62.5	654	3.4	43.6	43.6
Tuesday	23	3.8	47.9	47.9	575	3.0	37.8	37.8
Wednesday	28	4.6	58.3	58.3	623	3.2	40.9	40.9
Thursday	22	3.6	45.8	45.8	576	3.0	37.8	37.8
Friday	25	4.1	52.0	52.0	523	2.7	34.4	34.4
Saturday	••	••		0.0			~ *	0.0



Sat.

SUMMARY OF INSTRUCTIONAL SPACE UTILIZATION BY HOURS OF THE DAY FOR SPECIAL CLASSROOMS AT VALPARAISO UNIVERSITY, PALL 1957

hou
. each
y at
weekl
room-periods
aldallava
Total
Ą.

- Based on institution's schedule (For each hour, enter in first column the no. of rooms in category X no. of days in the week classes may meet at that hour) Based on 44-period week (Enter in 2nd column)
 - a. Morning hours (no. of rooms in category X 6)

398 190 Afternoon hours (no. of rooms in category X 5) Total number of ۵.

ن ب

1. Based on institution's schedule (For each hour, enter in third column no. of student stations in category X no. of student-stations in this group of rooms student-station-periods weekly at each hour: days in the week classes may meet at that hour Total available

Based on 44-period week (Enter in 4th column) 2.

1140 950 Afternoon hours (no. of student stations X 5) a. Morning hours (no. of student stations X 6)

Hour	Total Av	Available	Total A	Total Available		Total	Percenta	Percentage of Possible Utilization	le Utiliza	ton
	8	Room-Periods	Static	Station-Periods	Total	Student-	Room-Period Basis	od Basis	Stud-Sta	Stud-Station-Period Basis
o£	Based on	Based on	Based on	Based on	Room	Station-	Based on	Bassed on	based on	Based on
	Instit.	Wk. of	Instit.	Wk. of	Periods	Periods	Instit.	Wk. of	Instit.	Wk. of
Day	Schedule	44 Periods Schedule	Schedule	44 Periods .	Used	Occp. Wkly	ly Schedule	44 Periods	Schedule	44 Periods
6:50-7:40										
7:50-8:40	30	36	950	1140	91	436	53.3	44.4	45.8	38.2
8:50-9:40	38	36	950	1140	25	533	83.3	7.69	56.1	46.7
9:50-10:40	30	36	950	1140	23	475	76.6	63.8	20.05	41.6
11:30-12:20	30	36	950	1140	æ	100	26.6	22.2	10.ક	8.7
12:30-1:20	30	×	950	×	18	358	0.09	X	37.6	×
i:30-2:20	30	30	950	950	18	458	0.09	0.09	6,8.2	48.2
2:30-3:20	30	30	950	950	8	242	26.6	26.6	25.4	25.4
						The state of the s				

26.6

26.6

226 133

Φ ∞

950 950

88

2:30-3:20

3:30-4:20 4:30-5:20 5:30-6:20

9:30-10:20

7:30-8:20 8:30-9:20

6:30-7:20



TABLE 11

SUPPHARY OF UTILIZATION OF INSTRUCTIONAL SPACE IN ROOMS OF RACH SIZE FOR SPECIAL CLASSROOMS AT VALPARAISO UNIVERSITY, FALL 1957

ŧ

							Room	Room-Period Us			Student-	Student-Station-Period Hea	Period 1	Hee	
		Total	Total Avail-	1	Total Avail-	Wail-		1	ية	ercentage of			Percentage	age of	7 of
MUNDER	1	4	1000	Total	able St	able Student-		Average	Poss 1b1	ble		Average	Possible		Sta
Of	ź		spo	Student	station	station periods	Total	Koom-	Utilization	tion	Total	Student	Utilization	ation	tion
Student		Bassd	Based	Stations	Based	Based	Room-	Periods	Based	Based	Student-	Hours	Based	Basad	Use
Sta-	Rooms	uo	uo	in each	uo	uo	Pariods	Use for	no	u o	Station-	Per	000		5
tions	of	Instit	Week	Group	Instit.	Week	Used		tit.	Week	Periods	Vee k	4		
fn	esch	Sched-	0£ 44	of	Sched-	of 44			_	of 44	Occupied	Per			÷
Room	size	ule	Pariode	Rooms	ule	Periods				Periods		Statton	-11	Deve of	77.0
1-10	,											1000000		2 2 40 40	
11-20															
21-30	7	160	176	86	3920	4312	72	18	45.0	6.07	1225	12.5	31.2	28.4	65.5
31-40		040	77	31	1240	1364	91	16	40.0	36.3	430	13.8	34.6	31.5	86.6
41-50					_										
51-60															
61-80	, 4	40	7 77	19	2440	2684	07	07	100.0	6.06	1306	21.4	2 6 2	48.6	22
81-100															
01-150											1				***************************************
51-200															
01-250									+		-				
51 and														T	
over							 -								
						THE RESERVE THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS				A			_		



TABLE 12

DISTRIBUTION OF THE NUMBER OF CLASS-PERIOD MEETINGS PER WEEK BY SIZE OF CLASS IN RELATIONSHIP TO CAPACITY OF THE ROOM IN WHICH CLASSES ARE HELD FOR SPECIAL CLASSROOMS AT VALPARAISO UNIVERSITY, FALL 1957

			Number	of Class	8-Perio	d Meeti	Class-Period Meetings Per	Week							
				For Classes of	sses of	Each Group	roup								
Room	1	11	21	31	41	51	19	18	101	151	201	251			
Cap.	0	to	to	to	c t	to	to	to	to	ç	t o	pus	Total	Total Percent-	<u>.</u>
	10	20	30	40	20	9	80	100	150	200	250	OVET		age	-88
1-10															
11-20															
21-30	23	23	26										72	56.25	56.25
1-40			13	3									16	12.50	68.75
41-50															
1-60															
1-80		9	16	8	7	7	2					- 	07	31.25	100.00
1-100					,										-
1-150															
151-200															
201-250															
251 and															
OVE													120	00.001	
Total	23	29	55		3	4	2			1			077	100.00	
Percent.	17.96	22.66	42.97	8.59	3.13	3.13	1.56							100.00	
	17 06	40 63	02 60	00 10	16 20	77 60	100	_	-						



TABLE 13

SUPPLARY OF UTILIZATION DATA BY TEACHING LABORATORIES AT VALPARAISO UNIVERSILY, FALL 1957

coor-Period Use Total Student X of Possible				Room Hae.	Weekly	Basis	Student	-Station	Use, Weekly	ly Basis	
Mocoo No. of No						96 90	Total	Crident	4	919	}
Station Stat	5 5 5 5 5 5 5	e co		Local	Room-Peri	d Tree	Student		tati	Use	Station
Stations of the Neek	Surrarus		Student-	Derfods	40 Hrs	3	Station	~	40 Hrs.	H	Use When
1 36 32 80.0 72.7 1016 28.2 70.5 64.1 88.8 1 36 32 80.0 72.7 1016 28.2 70.5 64.1 88.8 2		2	Startons	Cf Use	Week	•	Periods		Wack	Week,	Room Act-
1 36 32 89.0 72.7 1016 28.2 70.5 64.1 946 4 40 30 75.0 68.1 962 24.0 60.1 54.0 80 5 22 24 8 20.0 18.1 132 25.5 10.8 1.2 5 23 20 11 27.5 25.0 13.7 13.7 13.5 5 23 25 18 20.0 27.5 146 6.0 15.0 13.6 5 24 25 27.5 27.5 27.4 27.7 27.5 5 27.5 27.5 27.4 27.5 27.4 27.5 5 27.5 27.5 27.4 27.5 27.5 5 27.5 27.5 27.4 27.5 5 27.5 27.5 27.4 27.5 5 27.5 27.5 27.4 27.5 5 27.5 27.5 27.4 27.5 5 27.5 27.5 27.4 27.5 5 27.5 27.5 27.4 5 27.5 27.5 27.4 5 27.5 27.5 27.5 5 27.5 27.5 27.5 5 27.5 27.5 27.5 5 27.5 27.5 27.5 5 27.5 27.5 27.5 5 27.5 27.5 27.5 6 27.5 27.5 7 27.5 7 27.5 27.5 7 27.5) 			Occupied	-			uaily in
1 36 32 80.0 72.7 1016 28.2 70.5 64.1 88 12.5 22 24.0 80.1 54.6 80 12.5 22 24.0 80 12.5 25.5 13.7 12.5 68 12.5 22 24.0 81.1 13.2 25.5 13.7 12.5 68 25.5 13.7 12.5 68 25.5 13.7 12.5 68 25.5 25.0 25.5 25.7 25.0 25.5 25.0 25.4 25.5			•						- 1		
The color of the	2101000		36	32			1016	•	•	• ?	88.1
22 24 8 20.0 18.1 132 5.5 13.7 12.5 6.8 23 20 11 27.5 18.1 48 2.4 10.8 17.6 9.9 39 Edg Lab 1 20 3 7.5 6.3 48 2.4 17.6 9.9 39 Edg Lab 25 12 24 12 20.5 27.2 146 6.0 15.2 17.6 99 39 39 25 4 17.6 99 39	Biology Biology	7	077	30	75.0		962	24.0	τ.09	•	80.1
23 20 11 27.5 25.0 87 4.3 10.8 9.9 39 ring 25 18 8 27.0 18.1 140 7.7 10.4 17.6 80 ring 1 24 12 30.0 27.2 146 6.0 15.2 17.6 80 ring 1ab 24 12 21 30.0 27.2 146 6.0 15.0 17.6 80 ring 1ab 26 12 27.5 47.7 189 5.7 18.7 72 ring 1ab 26 12 27.5 20.4 72 16.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 17.7 18.7 18.7 18.7 18.7 18.7 18.7 18.7 18.7 18.7 18.7 18.7 18.7 18.7 18.7 18.7 18.7 18.7 18.7 18.7	Biology	22	76	60	20.0		132	•	13.7	•	68.7
Annex	DICTORY Dictor	23	20	11	27.5		87	•	•	•	39.5
Annex 1 20 3 7.5 6.3 48 2.4 6.0 5.4 80 Annex 1 24 12 30.0 27.2 146 6.0 15.2 13.8 50 Lab 25 12 21.5 22.5 20.4 78 6.0 15.2 13.8 50 Lab 25 12 22.5 20.4 72 16.0 15.0 15.0 13.6 66 Lab 26 12 2 22.5 20.4 72 6.0 13.6 66 Lab 37 12 2 22.5 20.4 72 6.0 13.6 66 13.6 66 13.6 66 13.6 66 13.6 13.7 14.7 13.7 14.7 14.7 14.7 14.7 14.7 14.7 14.7 14.7 14.7 14.7 14.7 14.7 14.7 14.7 14.7 14.7 14.7 14.	Biology Biology	25	18	8	20.0		140	•	6	7.	97.2
Annex 1 24 12 30.0 27.2 146 6.0 15.2 13.8 50 Lab 24 12 21 52.5 47.7 189 15.7 39.3 33.7 7.7 Lab 26 12 2 22.5 20.4 72 6.0 15.0	Brotos,		20	3	7.5		48	•		•	80.0
Lab 24 12 21 52.5 47.7 189 15.7 39.3 33.7 75.6 Lab 25 12 2 22.5 20.4 78 6.5 16.2 14.7 72.1 Lab 26 12 9 22.5 20.4 78 6.5 15.0 13.6 6.5 15.0 15.5 47.7 87.7 17.1 18.7 18.1 16.4 80.1 Lab 44 12 6 15.0 13.6 87 7.2 18.1 16.4 80.1 Lab 44 12 6 15.0 13.6 87 7.2 18.1 16.4 80.1 Lab 44 12 6 15.0 45.4 371 13.7 34.3 31.2 69.0 Coup 22 20 50.0 45.4 371 13.7 34.3 31.2 54.1 64.9 12.8 32.0 22.5 13.2	1		24	12	30.0		146	•		- 2	50.6
Lab 25 12 9 22.5 20.4 72 6.5 16.2 14.7 72.7 Lab 26 12 9 22.5 20.4 72 6.0 15.0 13.6 66.0 Lab 37 12 9 22.5 20.4 87 7.2 18.1 16.4 80. Lab 44 12 6 15.0 13.6 66 5.5 13.7 12.5 91.0 Lab 48 22 21 52.5 47.7 27.6 5.5 13.7 12.5 91.0 Lab 48 22 21 52.5 47.7 27.6 37.3 31.2 91.0 coup 128 27 20.0 45.4 449 12.5 31.2 91.0 coup 218 20.0 45.4 449 12.8 32.0 29.1 45.0 coup 21 22.5 40.0 45.4 44	Τ.	24	12	21	52.5		1.89	15.7		•	• • •
Lab 26 12 9 22.5 20.4 72 6.0 15.0 13.6 66.0 Lab 28 12 24 60.0 54.5 252 21.0 52.5 47.7 87. Lab 48 12 6 12.6 13.6 66 5.5 13.7 12.5 91. Lab 48 22 21 52.5 47.7 276 5.5 13.7 12.5 91. Lab 48 22 21 52.5 47.7 276 12.5 31.3 26.5 91. Lab 126 27 20 50.0 45.4 449 13.7 34.3 31.2 68.5 coup 203-5 22 20 45.0 45.4 449 13.6 32.0 25.5 59.1 68.5 coup 20 50.0 45.4 449 13.2 33.3 34.3 32.1 34.3 31.2 <		25	12	6	22.5		78	•	• •	•]	72.2
earling labeling 28 12 24 60.0 54.5 25.2 21.0 52.5 47.7 87. earling Lab 37 12 9 22.5 20.4 87 7.2 18.1 16.4 80. earling Lab 44 12 6 15.0 45.4 37 27.5 13.7 31.2 91.0 80.2 earling Lab 22 2 2 25.0 45.4 37 27.5 31.2 31.2 59.0 arch Group 126 27 20 50.0 45.4 449 12.8 31.2 59.1 68.5 rich Group 203-5 22 28 70.0 45.4 449 12.8 31.2 54.2 rich Group 21 23 28 70.0 45.4 449 12.8 32.0 29.1 64.2 rich Group 21 22 22 22 40.0 1		1 26	12	6	22.5		72	• •		•	9.99
centing Lab 37 12 9 22.5 20.4 87 7.2 18.1 16.4 80 centing Lab 44 12 6 15.0 13.6 66 5.5 13.7 12.5 91. centing Lab 48 22 21 52.5 47.7 276 12.5 31.3 28.5 59. steh Group 126 27 20 50.0 45.4 371 13.7 34.3 31.2 59. rich Group 203-5 22 28 70.0 45.4 449 12.8 32.0 29.1 64. rich Group 203-5 20 50.0 45.0 46.9 17.2 43.4 39.5 22.1 64. rich Group	Bukaneer and war	28	12	24	0.09		252		1		87.5
central Lab 44 12 6 15.0 13.6 66 5.5 13.7 12.5 91. central Lab 48 22 21 52.5 47.7 276 12.5 31.3 26.5 59. fich Group 126 27 20 45.0 45.4 449 12.8 32.0 29.1 66. Ach Group 203-5 22 28 70.0 63.6 32.3 14.6 36.7 33.3 52. Ach Group 203-5 22 28 70.0 63.6 32.3 14.6 36.7 33.3 52.1 64.6 Ach Group 203-5 27.7 400 17.3 43.4 30.0 52.1 54.0 52.1 54.0 52.1 54.0 52.1 54.0 54.0 40.9 17.2 13.2 30.0 52.1 54.0 52.0 52.0 52.1 54.0 52.1 54.0 52.1 52.0 52.1 52.1		37	12	6	22.5		87	•	•	16.4	80.5
certing Lab 48 22 21 52.5 47.7 276 12.5 31.3 26.5 59.7 rich Group 126 27 20 50.0 45.4 371 13.7 34.3 31.2 68. rich Group 128 35 20 50.0 45.4 449 12.8 32.0 29.1 68. rich Group 203-5 22 28 70.0 63.6 14.6 36.7 36.8 36.7 36.8 36.7 36.8 36.7 36.8 36.8 36.8 36.8 36.8 36.8 36.8 36.8 <th></th> <td>777</td> <td>12</td> <td>9</td> <td>15.0</td> <td></td> <td>99</td> <td>•</td> <td>13.7</td> <td>12.5</td> <td>91.6</td>		777	12	9	15.0		99	•	13.7	12.5	91.6
ref Coup 126 27 20 30.0 45.4 371 13.7 34.3 31.2 68. fch Group 128 35 20 50.0 45.4 449 12.8 32.0 29.1 64. fch Group 128 35 20 50.0 45.4 449 12.8 32.0 29.1 64. fch Group 218 22 28 70.0 63.6 32.3 14.6 36.7 36.7 fch Group 218 23 36.0 72.7 400 17.7 43.4 36.7 54.2 sc. Cottage 13 18 45.0 40.9 6.6 16.6 16.0 73.1 sie Hall 42 9 4 10.0 9.0 36.2 9.7 24.3 30.0 100.0 sie Hall 42 9 4 10.0 9.0 66.2 9.7 24.3 22.1 47.1	Profraering Lab	87	22	21	52.5		276		31.3	28.5	59.7
rich Group 128 35 20 50.0 45.4 449 12.8 32.0 29.1 64. rich Group 203-5 22 28 70.0 63.6 323 14.6 36.7 33.3 52. rich Group 218 23 80.0 72.7 400 17.3 43.4 39.5 54. 3c. Cottege 13 18 45.0 40.9 172 13.2 33.0 30.0 73. sic Hall 42 9 4 10.0 9.0 66.6 16.6 15.1 55.0 sic Hall 42 9 4 10.0 9.0 66.2 9.7 24.3 22.1 54. sic Hall 30 68 18 45.0 40.9 66.2 9.7 24.3 22.1 54. sic Hall 30 68 18 10.0 90.9 55.0 25.0 25.3 47. 24.3 22.1	Creensfel Group	126	27	20	50.0	45.4	371	•	34.3	31.2	68.7
ce 203-5 22 28 70.0 63.6 323 14.6 36.7 33.3 52. rich Group 218 23 32 80.0 72.7 400 17.3 43.4 39.5 54. sc. Cottage 13 18 45.0 40.9 172 13.2 33.0 73.0 ske Hall 6-8 21 12 30.0 27.2 140 6.6 16.6 15.1 55.1 ske Hall 42 9 4 10.0 9.0 36 4.4 10.0 9.0 36 4.4 10.0 9.0 9.0 9.7 24.3 12.1 54.3 22.1 54.3 22.1 54.3 22.1 54.3 47.7 44.4 10.0 90.9 550 25.0 62.5 56.8 62.1 56.8 62.2 47.7 44.4 11.2 47.7 44.4 11.2 47.7 44.4 12.2 12.2 47.2	Greenatch Grain	128	35	20	50.0		644	0	32.0	29.1	64.1
c. Cottage 218 23 32 80.0 72.7 400 17.3 43.4 39.5 54. c. Cottage 13 18 45.0 40.9 172 13.2 33.0 73.0 c. Cottage 13 18 45.0 40.9 17.2 13.2 33.0 73.0 c. Ball 42 9 4 10.0 9.0 36 4.4 10.0 9.0 36 4.4 10.0 90.9 550 25.0 62.5 56.8 62.0 c. 3A 8 6 15.0 13.6 23 2.8 7.1 6.5 47.7 c. 11 24 11 27.5 25.0 12.9 34.7 31.6 66. c. 24 12 30.0 27.2 15.0 14.2 48. c. 24 24 25.5 25.0 53 15.6 14.2 47.7 44.5	Greenston Groun	203-5	22	28	70.0	63.6	323	14.6	36.7	33.3	52.4
C. Cottege 13 18 45.0 40.9 172 13.2 33.0 30.0 73.0 See Hall 6-8 21 12 30.0 27.2 140 6.6 16.6 15.1 55.1 See Hall 42 9 4 10.0 9.0 9.0 36 4.4 10.0 9.0 100.0 See 2 2 2 40 100.0 90.9 550 25.0 62.5 62.1 54.0 Ce 3A 8 6 15.0 13.6 4.7 4.45 13.9 34.7 31.6 65. Ce 3A 32 21 52.5 47.7 4.45 13.9 34.7 31.6 65. Ce 11 24 11 27.5 25.0 129 5.3 13.4 12.2 48. Ce 24 24 24 25.5 15.0 6.2 9.3 13.4 <th< th=""><th>Greensteh Group</th><td>213</td><td>23</td><td>32</td><td>80.0</td><td>72.7</td><td>400</td><td>17.3</td><td>43.4</td><td>39.5</td><td>54.3</td></th<>	Greensteh Group	213	23	32	80.0	72.7	400	17.3	43.4	39.5	54.3
Ske Hall 6-8 21 12 30.0 27.2 140 6.6 16.6 15.1 55.1 55.1 55.1 55.1 55.1 55.1 55.1 54.2 100.0 9.0 9.0 9.7 24.3 22.1 54.0 100.0 90.9 550 26.5 62.5 56.8 62.5 62.1 54.0 ce 3A 8 32 40 100.0 90.9 550 25.0 62.5 56.8 62. ce 3A 8 32 21 47.7 445 13.9 34.7 31.6 65. 47. ce 11 24 11 27.5 25.0 12.9 5.3 13.4 12.2 48. ce 24 12 30.0 27.2 15.6 14.2 15.6 14.2 52.3 14.2 52.3 ce 24 24 25.3 15.6 27.5 27.2 15.0 6.2 15	Home Rc. Cottage		13	18	45.0	6.04	172	13.2	33.0	30.0	73.5
ce Hell 42 9 4 10.0 9.0 36 4.4 10.0 9.0 10.0 9.0 36 4.4 10.0 9.0 9.0 9.7 24.3 22.1 54.0 ce 3.6 68 18 45.0 100.0 90.9 550 25.0 62.5 56.8 62. ce 3.6 8 6 15.0 13.6 23 2.8 7.1 6.5 47. ce 8 32 21 52.5 47.7 445 13.9 34.7 31.6 66.2 ce 11 24 11 27.5 25.0 129 5.3 13.4 12.2 48. ce 24 24 12 30.0 27.2 15.0 6.2 15.0 6.2 15.6 14.2 5.3 15.6 14.2 74.1 74.1 74.1 74.1 74.1 74.1 74.1 74.1 74.1 74.	Kroencke Hall	8-9	21	12	30.0	27.2	140	6.6	16.6	15.1	55.5
ce 300 68 18 45.0 40.9 662 9.7 24.3 22.1 52.1 52.1 52.1 52.1 52.2 40.9 66.2 55.0 62.5 56.8 62. ce 3A 8 6 15.0 13.6 23 2.8 7.1 6.5 47. ce 8 32 21 52.5 47.7 445 13.9 34.7 31.6 66. ce 11 24 11 27.5 25.0 129 5.3 13.4 12.2 48. ce 24 12 30.0 27.2 150 6.2 15.6 14.2 52. ce 24 24 12 30.0 27.2 150 6.2 15.6 14.2 30.6 27.8 60.	Kroencke Hall	42	6	4	10.0	9.0	36	4.4	10.0	0.6	700.0
ce 2 22 40 100.0 90.9 550 25.0 62.5 50.8 94.5 ce 3A 8 6 15.0 13.6 23 2.8 7.1 6.5 47.7 ce 8 32 21 52.5 47.7 445 13.9 34.7 31.6 66. ce 11 24 11 27.5 25.0 129 5.3 13.4 12.2 48. ce 24 12 30.0 27.2 150 6.2 15.6 14.2 52. ce 24 12 30.0 27.2 150 6.2 15.6 14.2 52. ce 24 445 X		300	68	18	45.0	6.04	299	9.1	24.3	1.77	0.50
ce 3A 8 6 15.0 13.6 23 2.8 7.1 9.3 7.1 9.3 7.1 66. ce 8 32 21 52.5 47.7 445 13.9 34.7 31.6 66. ce 11 24 11 27.5 25.0 129 5.3 13.4 12.2 48. ce 24 24 12 30.0 27.2 150 6.2 15.6 14.2 52. ce 27 604 445 X X X X X X X x x 7.401 X 30.6 27.8 66.	Seience	2	22	40	• }	90.9	550	25.0	62.5	20.8	670
ce 8 32 21 52.5 47.7 445 13.9 34.7 51.0 00.0 ce 11 24 11 27.5 25.0 129 5.3 13.4 12.2 48. ce 24 24 12 30.0 27.2 150 6.2 15.6 14.2 52. ce 27 604 445 X X X X X X X x x x 12.2 30.6 27.8 66.	Science	34	8	9	• 1	13.6	23	2.8	7:/	2.0	0.77
ce 11 24 11 27.5 25.0 129 5.3 13.4 12.2 40.2 ce 24 24 12 30.0 27.2 150 6.2 15.6 14.2 52. ce 27 604 445 X X 7401 X X X X X x 7 45 41.2 37.5 X 12.2 30.6 27.8 66.	Science	8	32	21	•	47.7	445	•	7.	31.0	7.00
24 24 12 30.0 27.2 150 6.2 15.6 14.2 52. 27 604 445 X X 7401 X X X X X X X X X X	Coton	111	24	11	•	25.0	129	•	13.4	•	• }
27 604 445 X X 7401 X X X X X X X X X X X X X X X X X X X		24	24	12	I _'I	27.2	150	•	• 1	• !	52.0
The state of the s	Total	27	709	445	×	×	7401	×	×	×	×
		•	*	16.4	1 4	7.	×		30.6	1	66.2

of better than 80 per cent. The basic chemistry laboratories (GG 126 and GG 128) are used 50 per cent of the time while at the same time the student-station utilization is better than 64 per cent. The engineering laboratories (EL 24, 25, 26, 28, 37, 44, and 48) are used between 15 per cent to 60 per cent of the available 40-hour week with a student-station utilization of approximately 75 per cent. The basic physics laboratory (Sc. 2) is used 100 per cent of the time since the laboratory classes were conducted as late as 6:00 P.M. and several small lecture classes were scheduled in this room during the early morning hours. The late afternoon classes have been computed in percentage of utilization, since these classes use the available facilities.

of the day. Since most of the laboratories range from 2 hours to 3 hours in length, scheduling problems dictate that the majority of the laboratories be held on Tuesday and Thursday and that laboratory classes begin as early as 6:50 A.M. and last as 1ate as 6:20 P.M. The majority of the laboratories are occupied in the afternoon periods (beginning at the 12:30 period). However, it is noted that 32 per cent of the laboratories are in use during the second (8:50-9:40) period.

In Table 16 it is noted that, in general, the utilization of laboratory student-stations during the hours of occupancy is high. However, many of the basic laboratories are used for advanced laboratory course with smaller enrollments which may tend to make the values tabulated for the student-station occupancy when the room is in use deceptively low. Table 17 shows that while 72 per cent of the University's laboratory class period meetings are for classes with 20 or less students, 29 per cent of the laboratory class period meetings are held in rooms with a capacity of 20 student-stations or less. Also, while 84 per cent of its laboratory class-period meetings are for classes with 30 or less students, 72 per cent of the laboratory class-period meetings are held in rooms with a capacity of 30 student-stations or less.



SUMMARY OF INSTRUCTIONAL ROOM UTILIZATION BY DAYS OF THE WEEK FOR TEACHING LABORATORIES AT VALPARAISO UNIVERSITY, FALL 1957

Total 1.	available room-periods each day: Based on institution's schedule (Total rooms X no. schedule) Mon. 216; Tues. 216; Wed. 216; Thurs. 216;		
	11011. 220; 1400. 220, 1101.		
2.	Based on 44-period week		
	Each day, Monday through Friday (Total rooms X 8)_	216	
	Saturday (Total rooms X 4)	108	
Total	no. of student-stations in this group of rooms	604	
Total	available student-station-periods each day:		
1	Based on the institution's schedule (Total student	-stations X no. of period	s in the
	institution's daily schedule)	bondaous w not on puncture	
		22 . Fm4 /922 . Cat	
	Mon. 4832; Tues. 4832; Wed. 4832; Thurs. 48	JZ , FII. 40JZ , Bal.	
2	Bused on Al monded work		
۷.	Bused on 44-period week	Winne ¥ 0\ //022	
	Each day, Monday through Friday (Total student-sta	1Elons A 0) 4032	
	Saturday (Total student-stations X 4)	2416	

Day	Room	· -Period Use			Stude	nt- Statio n	-Period Us	e
of	Total Room-	Av. Room- Periods			Tot. Stdt Stat. Pds		% of Post	
Week	Periods Used	Use for Day		Based on Wk44 Pd	Occupied	Per Station		Based on Wk44 Pd
Monday	79	2.9	36.5	36.5	1256	2.0	25.9	25.9
Tuesday	110	4.0	50.9	50.9	1642	2.7	33.9	33.9
Wednesday	86	3.1	39.8	39.8	1556	2.5	32.2	32.2
Thursday	106	3.9	49.0	49.0	1759	2.8	36.4	36.4
Friday	64	2.3	29.6	29.6	1188	1.9	24.5	24.5
Saturday		•	-	0.0	-	_	**	0.0



SUMMARY OF INSTRUCTIONAL SPACE UTILIZATION BY HOURS OF THE DAY FOR TRACHING LABORATORIES AT VALPARAISO UNIVERSITY, FALL 1957

room-periods weekly at each hour: Total available Š

institution's schedule (For each hour, enter in first column the no. of rooms in category X no. of days in classes may meet at that hour) the week Based on

44-period week (Enter in 2nd column) Based on

162 135 Afternoon hours (no. of rooms in category X 5) Morning hours (no. of rooms in category X 6) **ਲ** ъ.

909 student-station-periods weekly at each hour: student-stations in this group of rooms number of available Total Total <u>ب</u> ن

institution's schedule (For each hour, enter in third column no. of student stations in category X no. of days in the week classes may meet at that hour) Based on

Based on 44-period week (Enter in 4th column) 5

Morning hours (no. of student stations X 6) ₹

Afternoon hours (no. of student stations X 5)

3020

3624

Hour	Total Ava	Available	Total A	Total Available		Total	Perc	Percentage of Possible Utilization	ssible Uti	lisation
1	-1	-periods	Station-Periods	-Periods	Total	Student-	Room-Period Basis	od Basis	Stud-Sta	Stud-Station-Period Basis
o£	Based on	Based on	Based on	Based on	Room	Station-	Based on	Based on	Based on	Based on
<u>.</u>	Instit.	Wk. of		Wk. of	Periods	Periods	Instit.	Wk. of	Instit.	Wk. of
Z M Z	Schedule	44 Periods	Schedule	44 Periods	Used	Ocep.Wkly	Schedule	44 Periods	Schedule	44 Periods
6:50-7:40					6	262				
7:50-8:40	135	162	3020	3624	32	628	23.7	19.7	20.7	17.3
8:50-9:40	135	162	3020	3624	43	806	31.8	26.5	26.6	22.2
9:50-10:40	135	162	3020	3624	35	586	25.9	21.6	19.4	16.1
11:30-12:20	135	1.62	3020	3624	25	200	18.5	15.4	16.5	13.7
12:30-1:20	135	X	3020	×	97	809	34.0	X	20.1	X
1:30-2:20	135	135	3020	3020	65	1041	48.1	48.1	34.4	7-78
2:30-3:20	135	1.35	3020	3020	7.5	1216	55.5	55.5	40.2	40.2
3:30-4:20	135	135	3020	3020	09	934	7.77	4.47	30.9	30.9
4:30-5:20					39	687				
5:30-6:20					16	133				
6:30-7:20										
7:30-8:20										
8:30-9:20										
9:30-10:50										

TABLE 16

OF UTILIZATION OF INSTRUCTIONAL SPACE IN ROOMS OF RACH SIZE FOR TEACHING LABORATORIES AT VALLABLES OF UNIVERSITY, FALL 1957 SUPPLARY

							Room-P	Room-Pariod Us			Student	Student-Station-Period Use	Pariod 1	Jse	
		Total Avail-	Wail-		Total Avail-	Wail-			Percentage	tage of			Percentage	ige of	Z of
Munber		able Room	2000	Total	able Si	able Student-	-	Average	Possible	ole		Average	Possible	516	Sta-
jo	Mumber	Periods	spc	Student	station	station periods Total	Total	Room-	Utilization	stion	Total	Student	Utilization	Ition	tion
Student	of	Based	Based	Stations	Based	Based	Room-	Periods	peseg	Based	Student-	Hours	Based	Based	Use
Sta-	Rooms	uo	uo	in each	u O	uo	Periods	Use for	uo	uo	Station-	Per	no	no	When
tions	of	Instit.	Week	Croup	Instit.	Week	Deed	Week	Instit.	Week.	Periods	Week	Instit.	Week	Room
ţu	each	Sched-	of 44	÷0	Sched-	of 44			Sched-	of 44	Occupied	Per	Sched-	of 44	Ħ
Room	size	ule	Periods	Rooms	ule	Partods			ule	Periods		Station	ule	Periods	Use
1-10	2	80	88	17	089	87/	10	5.0	12.5	11.3	59	3.4	8.6	7.8	70.2
11-20	10	400	440	143	5720	6292	118	11.8	29.5	26.8	1611	8.3	20.8	18.9	74.7
21-30	10	400	440	233	9320	10252	961	9.61	0.64	44.5	2617	11.2	28.0	25.5	57.9
31-40	7	091	176	143	5720	6292	103	25.7	64.3	58.5	2872	20.0	50.2	45.6	77.1
41-50										•					4
21-60															
61-80	1	07	44	68	2720	2992	18	18.0	45.0	40.9	662	9.7	24.3	22.1	54.0
81-100															
01-150															
51-200															
01-250															
51 and															
CVCT															



TABLE 17

DISTRIBUTION OF THE NUMBER OF CLASS-PERIOD MEETINGS PER WEEK BY SIZE OF CLASS IN RELATIONSHIP TO CAPACITY OF THE ROOM IN WHICH CLASSES ARE HELD FOR TEACHING LABORATORIES AT VALPARAISO UNIVERSITY, FALL 1957

	×	黑	Number o	f Class	of Class-Period Meetings Fer Wack	Moetin	igs Fer	Wask							
			For C	Classes	of Each	Graup									
Room	-1	11	21	31	4.1	51	61	81	101	151	201	251			Cum.
Cap.	03	to	t	ç	to	ţ	to	to	to	to	to	and	Total	Percent-	Percent-
1	10	20	8	07	20	09	80	100	150	200	250	OVer		age	826
1-10	10												10	2.25	2.25
11-20	77	41											118	26.52	28.77
21-30	83	16	22										196	44.04	72.81
31-40	10	9	32	55									103	23.15	95.96
41-50										٠					
51-60															
61-80		3		11	7								18	4. 04	100.03
81-100															
101-150															
151-200										•					
201-250															
251 and															
OVET															
Total	180	141	75	99	7								445	100.00	
Percent.	57.07	31.69	12.13	14,38	06*										,
Cum. 7	57.07	72.14	84.27	01.66	100.001					,					
		•													



Tables 18 and 19 show the utilization of general classrooms, teaching laboratories, and others (special classrooms) by unassignment, by assignment to depart" ments that have first preference, and by assignment to departments that have control. It is believed best to examine these tables along with Tables 20 and 21 separately. Table 18 shows this utilization on a room-period basis based on a 44-hour week and Table 19, on a student-station basis. Table 18 shows the 12 unassigned general classrooms are used on an average of 58 per cent of the time, while the 27 preference general classrooms are used by the preferred department 43 per cent of the time and other departments 21 per cent. Thus, the average total utilization of the preferred general classrooms is in line with the unassigned classrooms, and consequently, the University's system of first preference on general classrooms does not reduce the utilization of room-periods markedly. The higher percentage of use in the preferred group is due more to the fact that these are the better classrooms wather than the method of assignment. Of the total of 27 teaching laboratories, 24 of them are control rooms in which the percentage of room-period utilization is only 34. The percentages in this group run from a low of 6.8 (E-1) to a high of 91 (Sc.2). It is once again pointed out that the basic laboratory rooms in biology, chemistry, and physics have a fairly high percentage of roomperiod usage while the percentage for the more advanced laboratory rooms is much lower (approximately 22 per cent). Consequently, the average total percentage can be misleading unless this differentiation is considered. The utilization of the engineering laboratories range from a low of approximately 14 per cent to a high of 54 per cent. This variation is due to the fact that some laboratories are used for more than one course and that the number of sections per course varies.

In the 12 unassigned and 27 preferred general classrooms, it is noted that the utilization of the student-stations when the rooms are used are relatively close--52 per cent compared with 46 per cent (Table 19). If these utilizations

Etext continued on page 33



TABLE 18

ANALYSIS OF ROOM-PERIOD UTILIZATION BY INSTRUCTIONAL DEPARTMENTS TO WHICH ROOMS ARE PERMANENTLY* ASSIGNED FOR GENERAL CLASSROOMS, TEACHING LABORATORIES, AND OTHERS AT VALPARAISO UNIVERSITY, FALL 1957

	Gene	ral Cl	assroo	ms	Teach	ing Lab	orator	ies	Ot	hers		
			m-peri		1		m-peri			% Roo	m-peri	.od
		Use o				Use o	n 44-			Use o	n 44-	
	. }	hr. W				hr. W	aekly			hr. W	eekly	
ots. or office to	Number		Basis		Number		Basis	1	Number	B	asis	
ich rooms are per-	of	1st.	Bal.	Tot.	of	1st.	Bal.	Tot.	of	1st.	Bal.	Tot.
nently* assigned	Rooms	Pref.			Rooms	Pref.			Rooms	Pref.		
Unassigned Rooms	12											
AA-107				61.3								
ÀA-203				52.2								
FA- 5				54.5								
GH-110				75.0								
GG-114				75.0								
. GG-11 6				68.1								Ĺ
GG-124				72.7								
GG-201				38.6								
GG-2 02				56.8								
GG-2 07				52.2								
MB-15				38.6								
MB-17				56.8								
Art					1				1			
BKA										9.1	27.2	36.3
KH-6-8 (Control								27.2				
Dept. of Biology	2				5							
B-1 (Control)							}	72.7				
B-4 (Control)								68.1				
B-10		25.0		52.2								
B-15		13.6	22.7	36.3								
B-22(Control)		<u> </u>						18.1				
B-23(Control)			<u> </u>					25.0				-
B-25(Control)							1	18.1	<u> </u>			
Dept. of			İ				1					•
Business & Ec.	3	1			1							
AL-31		84.0		84.0			1					
AL-33		75.0		75.0								
AL-34	1	61.3	13.7	75.0					1		}	
GG-203-5				<u> </u>		54.5	9.1	63.6				
Dept. of Chemistry	1		<u> </u>		4		<u> </u>				ž	
GG-126 (Control)			<u> </u>				<u> </u>	45.4			1	
GG-128(Control)]	45.4	1		Ķ.	
Sc11(Control)								25.0			į	
Sc15		40.9	29.5	70.4						1		
Sc24(Control)			<u> </u>					27.2		1	1	
	. –											

(CONTINUED)

ermanent assignment means the same as control or first preference.



TABLE 18 (CONTINUED)

AMALYSIS OF ROOM-PERIOD UTILIZATION BY INSTRUCTIONAL DEPARTMENTS TO WHICH ROOMS ARE PERMANENTLY* ASSIGNED FOR GENERAL CLASSROOMS, TRACKING LABORATORIES, AND OTHERS AT VALPARAISO UNIVERSITY. FALL 1957

	Gener	ral Clas	SETOOM	<u> </u>	Teachi	ing Lab	orator	ies	Ot	thers		
1			m-perio				m-peri				m-peri	Lod
,	1	ľ.	n 44-	,	1		n 44-		1	Use o	n 44-	
	1	1 -	leekly	,	,	1	reekly		1	hr. W	leskly	
a	ar mher		•	!	Number	I .	lasis		Number	1	Basis	
	Number		Bal.	Tot.	of		Bal.	Tot.	of	1	Bal.	Tol
nich rooms are per-			1 1	100.	Rooms	Pref.	; (1	Rooms	Pref.		-
	Rooms	Pref.			Koume	FLOR	4	 	Moome	1	t —	+
Dept. of Educa-	1	1	1	1	1			•	1	1.	.1	
tion	2	1-1-	120 6	50.0		-	+	+		-	+	+-
Sc21		11.4				 	+		+		1	+
8c22		63.6		63.5	-			 	 	 	 	56
Sc23(Control)	 '	 '	لــــــا					-		 -	+	+=-
. Dept. of Foreign	1	1	1	1	,	ł	,	•	,	1		
Languages	6	<u>'</u>	نــــــا				<u> </u>	4 ——		 		+-
GG-110		40.9	29.5		<u> </u>	-			 '		+	+-
GG-112	*	40.9	45.4	86.3	<u> </u>	<u> </u>	'					+-
LM-203		54.5	18.2	72.7				1			-	-
LM-204		47.7	20.4	68.1			<u> </u>		I		1	-
IM-303		47.7		54.5							<u> </u>	
LM-304	1	47.7	9.1	56.8								
. Dept. of Geog-	 	1	1]
raphy & Geology	3		i	•	1	4	,					
AL-1 (Control)		 		81.8	+		1		1			1
B-1 (Control)		+	-	102	+	†	+	6.8	1		1	1
KH-7-9	+	38.6	27.3	165.9	+	}	+	1	+			1
	-		25.0		+	-	+	 	+	 	-	+
KH-11		30.0	42.0	103.0	+	}	+	-	+	 	1	+
. Dept. of Govern-			,			•				{		Ì
ment	1	+ 500	25 0	178 0			+	 	+		+	+
AA-103		50.0	25.0	75.0	+		+	 	+	+	+	+
. Depti. of Home		1			}	į						İ
Beonomies					2		+	1-2-			-	+
GG-218(Control)	$T_{\mathbf{x}}$					•		72.7	·		ì	
HEC (Control)		<u> </u>	<u> </u>		-			40.9				4
. Dept. of Math-	T	T				•		1	Š	1	1	i
ematics	1		<u> </u>	<u> </u>	<u> </u>	<u>.</u>		1		<u> </u>		
KH-15-17		43.1	18.2	61.3			<u> </u>			1	1	1
. Dept. of Music	1				1		<u> </u>		1 1	<u> </u>	1	1
M-206	 	1							Ī		<u> </u>	63
M-300	1	1	1					40.9				L
. Dept. of Physics	1	1		1	3	1	1					L
Sc2(Control)		1	1		†	84.1	6.8	90.9		i		I
Sc3A(Control		+	+	1	+	1		13.6		1	1	
Sc8	1	+	+	}	+	20.4	27.3	47.7		1		
Sc12	+	31.8	124.1	65.9	+	1	+	1		+	1	1
l. Dept. of Psychol-	-	-	+	1	+	1	+		+	1	1	1
- ··	1 ,	l l	ļ	į		!		Ì		ļ	Į.	1000
08 y	+	52.3	4.5	56.8	+	+	+	+	1	+	+	+
GG-204-06		134.5	400	130.0	+	+	+	+		+	+	+
Dept. of Speach		İ	į	Ì	1	į		}	Ì		i	
ar Drama	2	-	+	+		1	+	+		+	+	+-
KH-10		22.7		77.2		-						3172, 17
Ki-34	<u> </u>	36.3	, 20.5	56.8		1		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ 				
ERIC Control	5	1	<u> </u>		NT INUED)	<u></u>		9.0	1			X

Permanent excionment means the same as southed on first and for

TABLE 18 (CONTINUED)

ANALYSIS OF ROOM-PERIOD UTILIZATION BY INSTRUCTIONAL DEPARTMENTS TO WHICH ROOMS ARE PERMANENTLY* ASSIGNED FOR GENERAL CLASSROOMS, TEACHING LABORATORIES, AND OTHERS AT VALPARAISO UNIVERSITY, FALL 1957

	Gener	al Cla	sero o m	E	Teachin	g Labo	ratori	.05	Ot	hers_		
ots. or office to	Number	Z Roo Use o hr. W	m-peri		Number		m-peri n 44-	od	Number	% Room		
ich rooms are per-			Bal.	Tot.	of	lst.	Bal.	Tot.	of	1st.	Bal	Tot.
mently* assigned	Rooms	Pref.			Rooms	Pref.			Rooms	Pref.		
College of Eng-												
ineering	4				8				3			
RA-1(Control)								27.2				
EL-23(Control)												27.2
EL-24 (Control)								47.7				
EL-25(Control)								20.4				3
EL-26(Control)								20.4				-
EL-28(Control)								54.5				<u> </u>
EL-37(Control)								20.4				
EL-42(Control)												15.9
EL-44 (Control)								13.6				
EL-48(Control)								47.7				<u> </u>
GH-107										72.7	18.2	90.9
GH-109		50.0	9.0	59.0						_	<u> </u>	
HH-(Control)		7		27.2								
KH-12		4.5	65.9	70.4								
KH-13		50.0	22.7	72.7			W				<u>i</u>	1
School of Law	2										<u> </u>	
AL-23		50.0	- CD	50.0			}					
AL-24		40.9		40.9								
]	3
tal for Institu-					į		} .					}
tion Unassigned	1.2		1	58.4	0				0			1
Control	2			54.5	24			33.6	4			40.8
Prefer.	27	43.1	21.0	64.1	3	53.0	14.4	67.4	2	40.9	22.7	63.6

armanen, assignment means the same as control or first preference.



TABLE 19

ARALYSIS OF STUDENT-STATION UTILIZATION BY INSTRUCTIONAL DEPARTMENTS TO WHICH ROOMS ARE PERMANENTLY* ASSIGNED FOR GENERAL CLASSROOMS, TRACHING LABORATORIES, AND OTHERS AT VALPARAISO UNIVERSITY, FALL 1957

	[1	Teaching	<u></u>			•
	General	Classroom	M 5	La'	boratories		_	thers	
			Per Cent		Per Cent	Per Cent	1		Per Cent
	1	1 -	Station-		Station-	Station-	1	1	Station-
pt. or office	Mumber	period	period	Number	period	period	Number	period	period
which rooms	of	Use on	Use When		Use on	Use When		Use on	Use When
	Student-	1	Room	Student-		Room	Student-	1	Room
	Stations	Week	in Use	Stations	Week	in Use	Stations	Week	in Use
Unassigned	1	1						ļ	.'
Rooms	<u> </u>			-		-	 		
AA-107	39	40.6	66.2	 				 	
AA-203	19	31.3	59.9	+	 		+		
PA-5	53	35.0	64.2	+	+		+		+
CH-110	70	38.0	50.7			+	+	+	
GG-114	68	27.6	36.8			+	+		+
GG-116	64	35.6	52.2	+	 			+	+
GG-124	95	26.0	35.7					+	+
GG-201	16	15.9	41.1	-	 	+	+	+	
GG-202	23	22.6	39,8	+	 	-	+	 	
GG-207	16	28.1	53.8	+	-	-	+		+
KB-15	43	30,3	78.5		 	-	+		+
MB-17	45	37.0	65.1	+				+	
Art			+	+		-	31	31.5	86.6
BEA	-	 		+	 		+	1 32.0	1 0000
KH-6-8				21	15.1	55.5			
(Control)	-	-	+		1 2002	1 33.5	+	+	
Biology P-1/Control	 		+	36	64.1	88.1	+	1	1
B-1(Control)			+	40	54.6	80.1	+	+	-
B-4(Control) B-10	116	25.1	48.1		-		+	+	
B-15	80	13.4	37.0	+			1		+
B-13 B-22 (Control)		1307	+ 37.00	24	12.5	68.7	+		†
B-22 (Control)		-	+	20	9.9	39,5	1	}	1
B-25 (Control)		 	+	18	17.6	97.2	+		
Business and	1	-			1	1	1		1
Economics		Ì				Ì		\{	
AL-31	51	53.3	63.4	1	<u> </u>				
AL-33	62	43.5	58.0						
AL-34	58	39.7	53.0	<u>† </u>					
GG-203-05	 		1	22	33.3	52.4			
Chemistry		<u> </u>							
GG-126			1	1					1
(Control)				27	31.2	68.7			1
GG-128									
(Control)				35	29.1	64.1			
Sc11						1	1		
(Control)		·		24	12.2	48.8		1	<u> </u>
Sc15	120	29.4	41.8						
Sc24			•						ļ
(Control)	į			24	14.2	52.0			

(CONTINUED)

ERIC manent assignment means the same as control or first preference.

TABLE 19 (CONTINUED)

ANALYSIS OF STUDENT-STATION UTILIZATION BY INSTRUCTIONAL DEPARTMENTS TO WHICH ROOMS ARE PERMANENTLY* ASSIGNED FOR GENERAL CLASSROOMS, TEACHING LABORATORIES, AND OTHERS AT VALPARAISO UNIVERSITY, FALL 1957

				1	Teaching	- 1			
	Genera!	Classroom			Laboratori		Othe	318	
	1	1 1	Per Cent)	1		Per Cent	1
		5 I	Station-	•	Station-	Station-	1	Station-	Station
	lumber	period	; • ;	Number	period	, - ,		period	period
o which rooms	of	Use on	Use When	i I	Use on	Use When		Use on	Use When
re permanently	Student-	44-hr.	Room	Student-	44-hr.	Room	Student-	44-hr.	Room
	Stations	Week	in Use	Stations	Week	1	Stations	· ·	in Use
. Education			1	,			1		1
Sc21	64	25.6	51.3	1	\		1	1	!
\$c22	45	40.3	36.6					1	1
8c23		,	,		,				1
(Control)			1	11			26	51.3	90.4
. Foreign Lang-					,				1
บลรูง		'	1	1	<u> </u>			1	1
GG-110	73	26.1	37.0		1				-
GG-112	52	48.3	56.0						
LM-203	42	36.7	50.5						1
LM-204	49	36.9	54.1						
IM-303	47	24.8	45.4				1	1	•
LM-304	42	34.1	60.0						,
. Geography &	- 3		1			1	}		
Geology	1	•	1			1	1	! }	†
AL-1(Control)	74	47.0	57.5			1	····	1	
R-1(Control)	1	1		20	5.4	80.0			-
KH-7-9	57	30.6	46.4			1		1	
KH-11	41	30.0	47.2		<u> </u>	1		, ,	
. Government						1	1	+	
AA-103	26	42.2	56.2	i		1	-	·	
. Home Econom-						1			
ics	7	Ì			1		,	ţ j	ţ
GG-218	1				-:	+	<u> </u>		
(Conta)	1	•	1	23	39.5	54.3	į	1	•
HEC(Control)	 	~		13	30.0	73.5			
. Mathematics	 		<u> </u>						
KH-15-17	41	45.8	74.7)	†	,
. Music	1		701	}		—			
M-206 (Contro 1)			•	i	3		29	22.8	35.9
M-300	1	-		68	22.1	54.0	47		7.7.7
. Physics	j							·	
Sc2(Control)	1			22	56.8	62.5			<u> </u>
Sc3A(Control)			·	8	6.5	47.6		·	<u> </u>
Sc8	f			32	31.6	66.2		——	
Sc12	63	36.9	56.1	- 34	- J U		-		
Psychology		-403							
GG-204-06	60	37.8	66.8					-	
. Speech and								'	
Drama		İ	\$	į	•		Ì	· •	7
KM-10	53	31.3	40.5						
KH-34	250	7.8							· · · · · · · · · · · · · · · · · · ·
		1.0	13.7	9	X	100		-	
KH-42 (Control)				7 1	9.0	100.0			,

(CONTINUED)

*PERICIENT assignment means the same as control or first preference.

TABLE 19 (CONTINUED)

ANALYSIS OF STUDENT-STATION UTILIZATION BY INSTRUCTIONAL DEPARTMENTS TO WHICH ROOMS ARE PERMANENTLY* ASSIGNED FOR GENERAL CLASSROOMS, TEACHING LABORATORIES, AND OTHERS AT VALPARAISO UNIVERSITY, FALL 1957

				T.	aching				
	01	C1 a a a a a a a			oratories		Oti	ners	
	General	Classroom Per Cent		J. Carlo	Per Cent	Per Cent			Per Cent
		Station-			Station-	Station-		1	Station-
	37 1			Number	period	period	Number	period	period
	Number	•	period	1 -	Use on	Use When		Use on	Use When
which rooms	of	Use on	Use When	Student-	1 1	Room	Student-	{ -	Room
e permanently	Student-		Room	1 -	: '		Stations	•	in Use
signed	Stations	Week	in Use	Stations	Meek	in Use	SCALIONS	HEEK	III USG
Engineering					10.0	50.6		 	
EA-1 (Control)				24	13.8	50.6		 	 ;
EL-23			}				0.1	22.7	96.0
(Control)							21	23.7	86.9
RL-24			}						
(Control)				12	35.7	75.0		-	
RL-25					i.				
(Control)		<u> </u>		12	14.7	72.2			
EL-26									
(Control)				12	13.6	66.6	<u> </u>		ļ
EL-28									
(Control)				12	47.7	87.5			
EL-37									
(Control)	1		ł	12	16.4	80.5			
EL-42								§	
(Control)							22	13.0	81.1
EL-44	 	 							
(Control)	1			12	12.5	91.6			
EL-48	+	1	1						
(Control)	•		1	22	28.5	59.7		4	
GH-107	 		+	+			61	48.6	53.5
	39	40.0	67.7	†	1	1			
GH-109	33	40.0	10/./	 	-		1		
服-	26	22.2	81.7				1		
(Control)	26	22.2		 	+		1		
KH-12	44	46.6	66.2		+	 	 	 	
KH-13	39	41.4	56.9	 			 		
. Law		1 22 2	100		 		 		
AL-23	45	31.9	63.9	-		 	 	+	
AL-24	39	20.6	50.4	·			 	+	
otal for				i ·				Ì	
Institution							1	•	
Unassigned	12	31.7	51.9	0		-	0	+ 00 0	171/
Control	2	40.5	63.7	24	28.1	68.2	4	28.3	71.4
Prefer.	27	29.8	46.1	3	26.6	56.9	2	42.8	64.6

Permanent assignment means the same as control or first preference.



are based on a 44-hour week, it is noted again that the percentages are approximately 60 per cent less than the University's current student-station usage-31 per cent compared with 30 per cent (Table 19). In the preferred group, the percentage of student-station utilization runs from a high of 75 per cent in Kroencke Hall (KH-15-17), to a low of 37 per cent in Biology Building (B-15), Science Building (Sc.-22) and Greenwich Group (GG-110) because of the lower percentage of student-station utilization in larger rooms.

Table 20 shows the summary of square feet of assignable floor space per 100 hours of student occupancy in the various rooms. It is useful when planning the number of gross square feet per full-time student enrolled. The University could use the overall minimum factor of 1.15 gross square feet per student hour of classroom instruction or approximately 16.5 gross square feet per full-time equivalent student enrolled in comparing the overall area of classrooms required for a given enrollment.

Table 21 shows the summary of assignable square feet of floor area per studentstation in rooms for each major purpose and it is noted that in 38 per cent of
the general classrooms, the floor space per student-station is from 10 square
feet to 14.9 square feet. The tabulation also shows that in 25 per cent of the
general classrooms, the floor space per student is less than 10 square feet.

In the engineering teaching laboratories, 6 per cent of the laboratory space is
more than 200 square feet per student-station because of the laboratory facilities
and equipment-space required. The majority of the laboratories have a floor space
of 25 square feet to 29.9 square feet per student-station.



³James F. Blakesley, An Evaluation of the Utilization of General Purpose Classrooms at Valparaiso University, Fall Semester 1956-57, (Lafayette, Indiana: November 1, 1957).

TABLE 20

SUPPLARY OF SQUARE FEET OF ASSIGNABLE FLOOS SPACE PER 100 HOURS OF STUDENT OCCUPANCY FOR CENERAL CLASSROOMS, TEACHING LABORATORIES, AND OTHERS AT VALPARAISO UNIVERSITY, FALL 1957

Square Feet of		Student Occupancy	(101.6)	79.7	53.3	146,9	86.4	133.6	130.6	41.9	59.5	59.8	76.5	139.2	155.8	122.2	133.5	156.2	83.3	105.0	87.7	87.7	185.7	72.9	71.3	107.0	207.4	198.0	85.9	1	65.3	88.7	80.0
	Hours of Student	Occupancy	(31763)	483	869	262	1532	633	354	1198	1188	1015	1285	7/7	817	289	1173	839	1011	328	1004	1088	112	229	1002	198	255	768	731	542	903	711	828
	Assignable Square	0		385	372	385	1325	97/8	462.5	503	707	607	786	699	1273	07/8	1567	1311	923	870	881	955	208	191	715	212	529	753	628	÷634	290	631	663
		Mumber of Rooms	3																														
	Kinds of	tto	Classrooms	1. AA-103	١.	V		١.	6. AL-24			9. AL-34			V.Z	ES.	B	[-55	ဗွ	99	-56-1	-35 1-35	١.	21. GG-202	١.	23. GG-207	Ι.				28. KH-12	29. KH-13	30. KH-15-17

(CONTINUED)



TABLE 20 (CONTINUED)

SUMMARY OF SQUARE PEET OF ASSIGNABLE FLOOR SPACE PER 100 HOURS OF STUDENT OCCUPANCY FOR CENERAL CLASSROOMS, TEACHING LABORATORIES, AND OTHERS AT VALPARAISO UNIVERSITY, FALL 1957

Space of the color					Square Table of
Instructional Boons Number of Rocas Peet of Flowers of Student 100 Hours of Student 100 Hours of Student 100 Hours of Student 100 Hours of Flowers 100 Hours 100 Hours of Flowers 100 Hours of Flowers 100 Hour					Space
Number of Rooms Feet of Floor Space Occupancy Student St	Kinds of			Hours of Student	ō
1. National Property 1.5	Instructional	of	of Floor	Occupancy	
32. L-M-203 701 679 34. L-M-204 701 679 34. L-M-204 6037 796 34. L-M-204 669 637 796 35. L-M-304 669 653 671 36. MB-15 8-15 724 734 36. MB-15 1013 734 733 39. Sc12 1025 727 723 40. Sc21 1024 1557 723 40. Sc15 1024 1557 723 40. Sc12 1025 727 723 41. Sc22 1025 1025 723 41. Sc22 1025 125 723 41. Sc22 1037 140 140 A. Lat-LM-6-8 5 120 140 a. B-1 5 150 140 a. B-2 100 140 140 a. B-2 100 122 140 b. GC-128 4 977 449 4 <th>. KH-34</th> <th></th> <th>2337</th> <th>862</th> <th>_</th>	. KH-34		2337	862	_
3.1. L-N-204 637 796 34. 1. M-204 6.93 796 35. 1. M-303 6.69 6.31 35. 1. M-304 6.69 6.31 36. M-15 10.13 5.74 36. M-15 10.13 5.74 38. Se12 10.34 10.25 39. Se15 10.44 10.25 40. Se21 723 723 40. Se22 10.34 10.25 1. Arr-KH-6-8 1 10.44 15.7 2. Exc. 21 723 724 723 4. Arr-KH-6-8 1 10.37 14.0 14.0 2. Arr-KH-6-8 5 5 5 5 5 4. Arr-KH-6-8 5 5 5 6 7 7 7 7 1. Arr-KH-6-8 5 5 5 5 6 5 6 6 6 6 6 6 6 6 6 6 7 7 7 7	. L-M-20		701	629	103.2
34. 1-N-303 701 513 35. 1-N-304 669 6131 35. 1-N-304 853 574 36. NB-17 1013 573 37. NB-17 1025 572 39. Sc15 1444 1557 40. Sc15 1444 1557 40. Sc17 1444 1557 40. Sc18 1444 1557 40. Sc17 1444 1557 40. Sc18 1444 1557 41. Sc21 1444 1557 40. Sc11 1401 1401 1. Arrivates 30 30 30 2. Biology 5 949 962 962 a. B-1 975 140 140 140 a. CG-128 4 977 449 4 b. GG-128 4 977	•		. 637	796	80.0
35. L-M-104 669 631 36. Nable-15 1013 574 36. Nab-15 1013 733 36. Sc12 1034 1025 39. Sc12 1034 1025 41. Sc22 1044 1557 41. Sc22 727 723 41. Sc22 727 723 41. Sc22 727 723 41. Sc22 727 723 41. Art-Kar-Kar-6-8 1 1037 140 2. Maching Laboratories 5 952 1016 4. Art-Kar-Kar-6-8 1 1037 140 2. Maching Laboratories 5 949 962 4. B-1 5 949 962 4. B-2 675 140 137 8. B-4 9.49 977 371 9. G-128 4 977 449 c. SC-11 1024 129 48 b. G-24 2 130 4 c. SC-11 </th <th></th> <th></th> <th>701</th> <th>513</th> <th>136.6</th>			701	513	136.6
36. NB-15 855 574 36. NB-15 855 574 37. NB-17 103 1733 38. Sc12 1034 1025 39. Sc15 1644 1557 40. Sc21 285 723 40. Sc21 723 723 40. Sc21 723 725 Teaching Laboratories (27) (32063) 7401 1. Axt-NH-6-8 1 1 1037 1401 2. Maching Laboratories 5 952 140 2. B-4 949 962 140 3. Business and e. B-25 675 140 129 4. Chemistry 4 977 371 4 b. GG-128 4 977 449 4 b. Geography & Geology gi 1 1 2			699	631	106.0
37. Mm-17 1013 733 36. Se12 1025 1025 39. Se12 1644 1557 40. Se21 585 723 40. Se22 727 726 41. Se22 727 726 41. Se22 726 726 41. Se22 726 726 4. Se22 1005 140 2. Mathematical and as and by a secondar and as a			855	574	148.9
38. Se12 1034 1025 39. Se12 1034 1025 40. Se21 585 723 41. Se22 727 726 1. Art-RH-6-8 1 1037 726 1. Art-RH-6-8 1 1037 7601) 2. Billows 5 952 1016 a. B-1 952 1016 1016 b. B-4 949 962 1016 c. B-2 67 140 170 a. B-2 675 140 140 a. B-2 675 140 140 b. GG-126 4 977 371 49 c. GG-128 4 977 449 46 c. SG-11 1040 449 46 46 b. How Economics 2 209 46 46 c. SG-13 1 2209 46 46 c. How Economics 2 2 46 46 b. HRC			1013	733	138,1
39. Sc15 1444 1557 40. Sc21 585 723 40. Sc21 585 723 Tameching Laboratories (27) (32063) 7(401) 1. Art-KH-6-8 1 1037 140 2. Biology 5 952 1040 a. B-1 949 962 962 b. B-4 9-22 1050 132 d. B-22 671 87 140 a. B-25 675 140 140 B -23 675 140 140 B -25 675 140 140 B -25 675 140 449 Chemistry 4 977 373 449 a. GG-126 4 977 449 449 c. SG-11 1024 1340 449 449 c. SG-12 1 024 2139 449 449 c. SG-14 1 024 400 400 b. HBC 172			1034	1025	100.8
40. Se21 585 723 40. Se22 727 726 41. Sc22 727 726 TackTug Laboratories (27) (32063) 7761) 1. Actring Laboratories (27) (32063) 7761) 1. Actring Laboratories (27) (32063) 7761) 1. Actring Laboratories (27) 160 160 a. B-1 b. G-2 1016 1026 162 b. B-2 B-2 160 132 140 132 a. B-25 675 140 170 140 170 3. Business and Economics-CC-203 1 728 323 140 140 140 140 140 140 140 140 140 140 140 150 1 <	•		1444	1557	92.7
41. Sc22 727 726 Teaching Laboratories (27) (32063) (7401) 1. Airlokyu-6-8 1 1037 1460 2. Airlokyu-6-8 5 952 1016 4. B-4 949 962 1016 b. B-4 949 962 132 c. B-25 1050 132 140 a. B-25 675 140 140 a. B-25 675 140 140 b. B-4 675 140 140 c. B-25 1 140 140 d. Commiss and Economics and Eco			585	723	1 .
Teaching Laboratories			727	726	100.1
Art-KH-6-8 1 1037 140 a. B-1 5 952 1016 b. B-1 949 962 20 c. B-22 1050 132 37 d. B-23 671 87 400 Business and Economics-CG-203 1 728 323 Chemistry 4 977 371 4 b. GG-126 4 977 371 129 1 c. SG-11 1340 449 449 4 c. SG-126 4 977 371 4 d-ocrass 1340 449 4 c. SG-11 1204 129 150 d-ocrass 150 48 4 d-ocrass 200 48 4 d-ocrass 200 46 4 d-ocrass 200 46 4 d-ocrass 200 400 172 b. HRC 360 172	Teaching L	(27)	(32063)	(7401)	(433.2)
a. Biology 5 952 1016 a. B-1 949 962 b. B-4 949 962 c. B-22 1050 132 d. B-23 671 87 e. B-25 675 140 Business and Economics-GG-203 1 728 323 Chemistry 4 977 371 449 b. GG-128 4 977 371 4 d. GG-128 4 977 449 129 d. GG-128 1 1 2209 449 449 d. Georgaphy & Geology & 1 1 2209 48 4 d. Georgaphy & Geology & 1 1 2209 48 4 d. GG-218 2 924 400 172 b. HBC 172 360 172 172	Art-XH-	1	1037	140	740.7
a. B-1 952 1016 b. B-4 949 962 c. B-22 1050 132 d. B-23 671 87 a. B-25 675 140 Business and Economics-GG-203 1 728 323 Chemistry 4 977 371 4 b. GG-126 4 977 371 4 b. GG-128 4 977 371 4 b. GG-128 4 977 449 7 d. SG-11 1024 129 1 d. SG-24 2139 150 4 d. SG-24 2139 48 4 Geography & Geology B 1 1 2209 48 4 B Nome Economics 2 924 400 172 b. HRC 172 172 172 172		2			
b. B-4 c. B-22 d. B-22 d. B-23 e. B-25 e. B-25 Economics-CG-203 e. Chemistry c. Chemistry c. SC-11 c. SC-126 c. SC-126 d. SC-24 d. SC-24 e. Goography & Geology & 1 c. Goography & Geology & 1 c. SC-18 e. GG-218 e. GG-			952	1016	93.7
c. B-22 1050 132 d. B-23 671 87 e. B-25 675 140 Economics-GG-203 1 728 323 Chemistry 4 977 371 a. GG-126 4 977 371 b. GG-128 4 977 371 c. SG-11 1340 449 d. SG-24 129 150 d. SG-24 150 48 d. SG-24 2139 48 4 Home Economics 2 924 400 a. GG-218 2 924 400 b. HRC 360 172			676	962	98.6
d. B-23 671 87 e. B-25 140 Business and Economics and Economics at GG-203 1 728 323 Chemistry 4 977 371 a. GG-126 4 977 371 b. GG-128 4 977 449 c. SG11 1340 449 129 d. SG-24 129 150 1 d. SG-24 2139 150 1 Geography & Geology E1 1 2209 48 4 Home Economics 2 400 400 b. HRC 1RC 360 172			1050	132	795.4
e. B-25 675 140 Business and Economics-GG-203 1 728 323 Chemistry 4 977 371 a. GG-126 4 977 371 b. GG-128 4 977 449 c. SC-12 4 977 449 d. SC-24 1024 129 1 Geography & Geology B 1 1 2209 48 4 Howe Economics 2 400 400 a. GG-218 2 400 172 b. HRC 172 172			671	87	771.2
Economics and Economics - GG-203 1 728 323 Chemistry 4 977 371 a. GG-126 4 977 371 b. GG-128 4 977 449 c. SG11 1024 129 d. SC-24 150 48 Geography & Geology & 1 1 2209 48 Home Aconomics 2 400 a. GG-218 2 924 400 b. HRC 924 400 b. HRC 172			675	140	482,1
Economics-GG-203 1 728 323 Chemistry 4 977 371 a. GG-126 4 977 371 b. GG-128 4 1340 449 c. SG11 1024 129 129 d. SC-24 1 1 2209 48 Geography & Geology E1 1 2209 48 Home Economics 2 400 400 b. HBC HBC 172 172	. Business		- Peruditival		
a. GG-126 4 977 371 a. GG-126 4 977 371 b. GG-128 449 449 c. SG11 1024 429 48 d. SC-24 150 48 Geography & Geology E 1 1 2209 48 Home Economics 2 400 400 a. GG-218 400 172 b. HBC 172 172	Economics-GG-203		728	323	225.3
a. GG-126 4 977 371 b. GG-128 4 449 449 c. SC11 1024 129 129 d. SC-24 1 2139 150 Geography & Geology E1 1 48 Home Economics a. GG-218 2 400 b. HBC 360 172	. Chemistry				
b. GG-128 1340 449 c. SC11 1024 129 d. SC-24 150 150 Geography & Geology E 1 1 48 Home Economics 2 460 a. GG-218 924 400 b. HEC 360 172	GG-17	ት	977	371	263.3
c. SC-11 1024 129 d. SC-24 . 2139 150 . Geography & Geology Ell 1 48 48 . Home Economics 2 48 40 a. GG-218 924 400 400 b. HEC 360 172 40	GG-17		1340	677	298.4
d. SC-24 " 2139 150 . Geography & Geology E 1 1 2209 48 . Home Economics 2 48 a. GG-218 400 b. HEC 360 172	SC 1		1024	129	793.7
Geography & Geology E1 1 2209 48 Home Economics 2 400 a. GG-218 400 400 b. HEC 360 172			2139	150	1426.0
. Home Economics 2 400 a. GG-218 400 b. HEC 360 172	. Geography & Geology E	Ţ	2209	87	4602.0
3G-218 400 400 HBC 172	. Home Economi	2			
. HEC 172	36-2		924	700	231.0
	•		360	172	209.3

(CONTINUED)



TABLE 20 (CONTINUED)

SUPPLARY OF SQUARE FEST OF ASSIGNABLE FLOOR SPACE PER 100 HOURS OF STUDENT OCCUPANCY FOR GENERAL CLASSROOMS, TEACHING LABOLATORIES, AND OTHERS AT VALPARAISO UNIVERSITY, FALL 1957

				Square Feet of
Kinds of	•	Acadonable Smare	Hours of Student	Floor Space per
Instructional Rooms	Mumber of Rooms	Pet of Floor Space	Occupancy	Student Occupancy
		1734	662	261.9
8. Physics	3			
a. Sc2		1139	550	207.0
Ì		657	23	1995.0
Sc8		984	445	221.1
3	1	232	36	4.44
er f	8			•
	•	2400	146	3698.6
1		ት	189	234.9
		328	78	420.5
d. BL-26		218	72	302.7
l		2029	252	805.1
		2719	87	3125.2
g. BL-44		330	હ6	500.0
		1012	276	366.6
-	(9)	(3805)	(2961)	(128.5)
		520	430	120.9
EL-23		099	219	301.3
KL-42		335	126	265.8
CH-1 07		1562	1306	119.6
M-206		347	292	118.8
Sc23		381	588	8,49
All Rooms Combined	74	68157	42125	161.7



TABLE 21

SUMMARY OF ASSIGNABLE SQUARE FEET OF FLOOR AREA PER STUDENT-STATION IN ROOMS FOR EACH MAJOR PURPOSE FOR CENERAL CLASSROOMS, TEACHING LABORATORIES, AND OTHERS AT VALPARAISO UNIVERSITY, FALL 1957

No. of	Stations	one														•						
Assignable	In Gen.	ä.							Static	Stations in To	-	aching Laboratories	Tebo:	rator	ies							
Square Feet	Class	•															}					
ner.	rooms	1	Y	Axe	BI	Biol.	P	B.68.	Chen.	•	G. EG	£GE.	H.E.		Tr.		Phy.		S.E	j.	Kngr.	ان
Student Station	_	2	¥o.	2	No.	7	No.	7	No.	7	No.	2	No.	7	₩o.	12	No	52	S S	14	₩ 8	P2
9 or less	909	25.6											1	1								
10-14.9	897	38.1																				
15-19.9	009	25.6																			12	1:9
20-24.9	252	10.7			05	9.9							1									
25-29.9					36	0.9							13	2.2	68	11.2			•	1.5	77	4.0
30-39.9					38	6.3	22	3.7	62	10.3							32	5.3			12	1:9
40-49.9					77	4.0			24	4.0			23	3.8							22	3.6
50-59.9																	30	5.0				
60-79.9			21	3.5																		1
80-99.9									77	4.0												
100-124.9											20	3.3										
125-149.9											1	1	1	7			_				,	
150-174.9											-				1						27	717
175-199.9								•			1		+				1					
200 or more										-					•						36	9
-	2349	100.0 21	21	3.5	138 22.9	22.9	22	3.7	110	18.3	20	3.3	36	6.0	1 89	11.2	62	10.3	6			়•
AV (M)	587	25.0 21	21	3.5	,,,,	5.7	22	3.7	36.6	6.1	20	3.3	18	3.0	1 89	11.2	31	5.1	6	1.5	19.6	3.2
7:10	-			1					***************************************	1			1									

(CONTINUED)



TABLE 21 (COSTINUED)

SUPPLARY OF ASSIGNABLE SQUARE FEET OF FLOOR AREA PER STUDENT-STATION IN ROOMS FOR EACH MAJOR PURPOSE FOR CENERAL CLASSROOMS, TEACHING LABORATORIES, AND OTHERS AT VALPARAISO UNIVERSITY, **FALL** 1957

No. of	Stations	-									1
Assignable Square Rest	in Gen.				St	Stations in	ons in Other Rooms	9			
per	tooms		Art		Educ.	•	Music	*	Engr.	•	
Student Station	No.	7	·No.	%	No.	2	No.	2	No.	7.	
9 or less											
10-14.9		-			26	13.7	29	15.3			
15-19.9			31	16.3					22	11.6	
20-24.9											
25-29.9									19	32.1	
30-39.9									21	0"11	
6.64-04											
50-59.9											
. 6.67-09											ì
80-99.9											
100-124.9											ı
125-149.9											1
150-174.9											1
175-199.9											
200 or more											ł
Total			31	16.3	26	13.7	29	15.3	104	54.7	ı
Av. (H)			31	16.3	26	13.7	29	15.3	34.6	18.2	1
											ŀ



"Data obtained from a space utilitzation study generally have greater meaning to an institution if comparisons can be made with the experiences of other institutions in the use of their plant facilities. Such comparisons require normative data based on strictly comparable statistics from studies of space utilization in a substantial number of colleges and universities."

ROOM-PERIOD UTILIZATION COMPARISONS

In this study the data published in the Manual⁵, the data published by Russell and Jamrich in their Space Utilization and Value of Physical Plants in Michigan Institutions of Higher Education⁶, and the data published in the Survey of Physical Facilities at Wisconsin State College and the University of Wisconsin⁷ have been used. Due to the fact that, at this time, few space studies have been made as outlined in the Manual, the utilization data as presented in the Space Utilization and Value of Physical Plants (Staff Study No. 9)⁸, which followed the form suggested in the Manual in compiling its data, are presented in the following tables for examination in order to observe the similarities and/or differences.

Again, it is realized that the data as tabulated for the University would have



John Dale Russell and James I. Doi, <u>Manual for Studies of Space Utilization</u>
in <u>Colleges and Universities</u>. Athens, Ohio: American Association of Collegiate
Registrars and Admissions Officers, 1957.

⁵ Tbid

John Dale Russell and John X. Jamrich, Space Utilization and Value of Physical Plants in Michigan Institutions of Higher Education, The Survey of Higher Education in Michigan, Staff Study No. 9, Prepared for the Michigan Legislative Study Committee on Higher Education (Lansing: Legislative Study Committee, June 1958), pp. 37-84.

Wisconsin. Joint Staff of Coordinating Committee for Migher Education, Survey of Physical Facilities at Wisconsin State Colleges and University of Wisconsin Fall, 1956, Research Study VI, Part I (Charts) (Madison: Coordinating Committee for Migher Education, April, 1958), Charts 6, 8, 14, and 16.

⁸ Russell and Jamrich

much more effect if it could be compared with a number of other institutions of comparable size.

GENERAL CLASSROOMS

Table 22 shows that the room-period utilization of Valparaiso University places it in the 80-percentile point in the table of norms. This means that Valparaiso University has a rate of utilization that is higher than 80 per cent of the institutions in the representative group, and in comparing its rank with the Michigan institutions and the Wisconsin institutions, it is in the same group as the University of Michigan and the University of Wisconsin.

In the Michigan institutions, the room-period use by the days of the week are greater on Monday, Wednesday, and Friday than on Tuesday, Thursday, and Saturday, (Table 23). This pattern of greater use of Monday, Wednesday, and Friday is also prevelant at Valparaiso University. The average percentage of room-period use on Tuesday and Thursday at the Michigan institutions is greater than at Valparaiso University. The state and privately controlled institutions in Michigan have a much greater use of room-period utilization on Saturdays than does Valparaiso. According to Table 23, it is also noted that the maximum average percentages of room-period utilization at Michigan institutions are for Monday while at Valparaiso University, Wednesday is the day that has the maximum percentage of room-period utilization. The minimum average percentages of the Michigan institutions occur most frequently on Thursday (state-controlled) and Friday (privately-controlled and community). At Valparaiso University, the minimum percentage occurs on Thursday.

Table 24 shows that the percentage of room-period occupancy, beginning at the 3 o'clock hour, is definitely much lower than at any other hour in the day. The 9 o'clock hour has the greatest percentage of room-period occupancy at Valparaiso University. The use of the 9 o'clock hour exists also at the state

Ltext continued on page

COMPARISON OF ROOM-PERIOD UTILIZATION FOR GENERAL CLASSROOMS AMONG MICHIGAN INSTITUTIONS, FALL 1956, WISCONSIN UNIVERSITY AND STATE INSTITUTIONS, FALL 1956, AND VALPARAISO UNIVERSITY, FALL 1957.

entile Rank*	Institution Po	Average number ariods Used Per Wee
99	Institution	or zoon or or not
	Central Michigan College	. 28.6
	Ferris Institute	30.5
	Michigan State University	28.7
	Wayne State University	30.3
	P-25 (62 rooms)**	37.9
	P-20 (26 rooms)**	31.0
	Henry Ford Com. College	33.2
)	Northwestern Com. College	32.3
90		
у	Valparaiso University	27.2
•	. Eastern Michigan College	28.4
	University of Michigan	26.4
	P-37 (22 rooms)**	26.7
	Bay City Com. College	26.5
	Flint Com. College	27.8
	University of Wisconsin	26.9
80		
	Western Michigan University	24.7
	P-18 (12 rooms)**	23.8
,	Highland Park Com. College	23.7
	Muskegon Com. College	25.5
	Port Huron Com. College	24.8
	Wisconsin State College-Whitewater	23.4
	Wisconsin State College-Stevens Point	23.5
70		
	Michigan College of Mining & Tech. (Hought	
	Grand Rapids Com. College	22.4
	Wisconsin State College - Eau Claire	22.4
	Wisconsin State College - Superior	22.6
60		
	P-13 (23 rooms) **	21.6
	Wisconsin State College-River Falls	20.5
	Wisconsin Institute of Technology	20.5
	Wisconsin State College-LaCrosse	21.1
50		
	Northern Michigan College	20.1
	Jackson Com. College	19.6
40		
	P-40 (24 rooms) **	18.5
	P-27 (30 rooms) **	18.8
	Stout SixteCollege,	19.1

TABLE 22 (CONTINUED)

COMPARISON OF ROOM-PERIOD UTILIZATION FOR GENERAL CLASSROOMS AMONG MICHIGAN INSTITUTIONS, FALL 1956, WISCONSIN UNIVERSITY AND STATE INSTITUTIONS, FALL 1956, AND VALPARAISO UNIVERSITY, FALL 1957.

		Average number
Percentile Rank*	Institutions	Periods Used Per Week
30		
	Michigan College of Mining & Tech. (Sault	16.2
	P-10 (31 rooms)**	17.4
	Benton Harbor Com. College	16.3
	Wisconsin State College-Platteville	16.3
	Wisconsin State College-Oshkosh	16.5
20		
	Battle Creek Com. College	14.2
10		
	P-15 (17 rooms)**	13.1
	P-31 (22 rooms)**	13.0
	P-36 (15 rooms)**	11.6
	P-35 (12 rooms)**	9.8

^{**}Private colleges in Michigan not identified by name. However, we shall identify each by the number of rooms reported. P-15--17; P-40--24; P-27--20; P-13--23; P-10--31; P-31--22; P-37--22; P-18--12; P-36--15; P-35--12; P-25--62; P-20--26.



^{*}Based on norms from Manual for Studies of Space Utilization in Colleges and Universities, John Dale Russell and James I. Doi, p. 97

TABLE 23

COMPARISON OF THE AVEPAGE PERCENTAGE OF POSSIBLE ROOM-PERIOD UTILIZATION OF GENERAL CLASSROOMS BY DAYS OF THE WEEK AT MICHIGAN INSTITUTIONS, FALL 1956, BASED ON 44-PERIOD WEEK WITH THE PERCENTAGE AT VALPARAISO UNIVERSITY, FALL 1957

Institution	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday A.M.
Valparaiso Univ.	82.6	51.8	84.7	45.4	75.9	1.2
Michigan Instit. State Controlled	76.2	61.8	68.7	61.9	64.3	13.5
Privately Control-	63.5	56.8	59.6	55.3	49.7	14.4
Community	73.1	62.3	65.2	57.8	57.4	3.6



TABLE 24

COMPARISON OF THE AVERAGE PERCENTAGE OF POSSIBLE ROOM-PERIOD OCCUPANCY OF GENERAL CLASSROOMS BY HOURS OF THE DAY AT MICHIGAN INSTITUTIONS, FALL 1956, BASED ON 44-PERIOD WEEK, WITH THE PERCENTAGE AT VALPARAISO UNIVERSITY, FALL 1957

Institution	7-8	8-9	9-10	10-11	11-12	12-1	1-2	2-3	3-4	4-5	5-6
Valparaiso Univ.		59.3	77.6	72.3	54.0	64.3	72.6	56.5	19.0		
Michigan Instit. State Controlle	d 0.3	52.3	64.3	63.6	58.8	26.8	63.0	59.0	41.3	21.9	10.2
Privately Controlled	0.6	48.1	54.0	47.7	49.8	38.0	46.3	39.5	22.9	10.5	5.9
Community	2.3	42.6	52.1	51.9	46.1	35.9	57.3	38.2	22.2	11.5	9.2



and privately controlled institutions in Michigan, but in the community institutions of Michigan, the 1 o'clock hour is the maximum hour for use. It definitely shows that Valparaiso University uses the noon hour to a much greater degree than do the Michigan institutions. Since this study was made, Valparaiso University has abandoned the noon hour period. It might be that, before future needs are required, Valparaiso should revert back to the use of the noon hour. The early hour, 7 o'clock, is used to a very small degree and here, too, Valparaiso might make better distribution of the use of the hours of the day.

Table 25 shows that at Valparaiso University, the rooms with the highest percentage of utilization are those seating 81-100 students. However, in this group, there is only one room of this size, (Table 6). The second largest number of rooms at Valparaiso University are those seating 61-80 students (Table 6) which has a utilization percentage of 66.4. For the state-controlled group in the Michigan institutions, the highest percentage of utilization is also in the group seating 61-80 students. The largest number of rooms at Valparaiso University are those seating 41-50 students which has a utilization percentage of 59.7.

TEACHING LABORATORIES

Tables 26 through 29, showing the room-period utilization in teaching laboratories, are analyzed on the same basis as those tables (22 through 25) for general classrooms given above.

In Table 26, it is noted that the room-period utilization of Valparaiso University places it in the 40-percentile rank. Again, this means that Valparaiso University has a rate of utilization that is higher than 40 per cent of the representative institutions but lower than 60 per cent of those institutions in the norms. It is noted that we are in the same group as, for example, Michigan State University and Western Michigan University.



Table 27 shows that at Valparaiso University the room-period use by the days of the week is greater on Tuesday and Thursday than on any other day of the week. The same holds true for the state-controlled institutions in Michigan, while Tuesday and Wednesday are used to a greater extent in the privately-controlled and community institutions in Michigan. The minimum percentage occurs on Friday at Walparaiso University as well as at the Michigan institutions. The use of Saturday is almost non-existent except for the state-controlled institutions in Michigan.

At Valparaiso University and at the Michigan institutions, it is noted in Table 28 that the afternoon hours have a higher percentage of room-period occupancy than do the morning hours. At these institutions, the peak hour of the day is the 2 o'clock hour while the least used hour at Valparaiso University is the 11 o'clock period and at the Michigan institutions, it is the noon period. Little or no use is made of the early morning or late afternoon hours. At Valparaiso University and at the privately-controlled institutions in Michigan, the percentages of use of the morning hours are much less than at the state-controlled institutions in Michigan.

Table 29 indicates that at Valparaiso University the highest percentages of utilization are those with 21-30 student-stations and with 31-40 student-stations. Of the twenty-seven teaching laboratories, twenty of these rooms (Table 16) fall within the range of 21-40 student-stations. In the Michigan institutions, the rooms with 31-40 student-stations show most frequently the maximum usage, although the maximum average is for the rooms with 101-150 student-stations. The lowest percentage of utilization at both Valparaiso University and the Michigan institutions is in rooms of 1-10 student-stations.



TABLE 25

COMPARISON OF THE AVERACE PERCENTAGE OF POSSIBLE ROOM-PERIOD UTILIZATION OF CENERAL CLASSROOMS OF EACH SIZE AT MICHIGAN INSTITUTIONS, FALL 1956, BASED ON 44-PERIOD WEEK, WITH THE PERCENTAGE AT VALPARAISO UNIVERSITY, FALL 1957.

			2	mber of	Student	Stations	fn Room					
	1-10	1-10 11-20	21-30	31-40	41-50	1 31-40 41-50 51-60	61-80	81-100	101-150 151-200	151-200	201-250	251 & up
Inscreament	7	7 27	53.0	58.5	59.7	71.4	4.99	72.7	61.3		56.8	
VEIDELEISO OULV.												
Michigan Inst.			•	•			0	7 7 7	603	. cs	,	£.87
State-Controlled 46.1	46.1	33.3	54.4	66.5	65.5	24:0	0.0/	2/:/	3:00	74:0		
Drivere IV											,	•
	8	77.	8.87	187	62.2	66.5	56.5	59.2	67.3	31.8	101.1	86.4
CONCLOTTER	70.0		2					7	2 72			
Commenter	9.1	26.1	55.0	58.6	2.99	1.60	20.7	72.7				
								•	*			



TABLE 26

COMPARISON OF ROOM-PERIOD UTILIZATION FOR TRACHING LABORATORIES AMONG MICHIGAN INSTITUTIONS, FALL 1956, WISCONSIN UNIVERSITY AND STATE INSTITUTIONS, FALL 1956, AND VALPARAISO UNIVERSITY, FALL 1957.

		Average Number
ercentile Rank*	Institution Pe	riods Used Per Wee
99		
	University of Michigan	27.7
	P-18 (6 rooms)**	25.6
	Bay City Com. College	28.9
	Henry Ford Com. College	27.7
	Muskegon Com. College	29.8
	Stout State College	25.2
90		
	Central Michigan College	21.8
	Ferris Institute	23.6
	University of Wisconsin	24.0
	Wisconsin State Collage-Stevens Point	22.3
80		
	Highland Park Com. College	20.7
	Wisconsin State College-LaCrosse	20.1
	Wisconsin State College-Eau Claire	19.9
70		
	Wayne State University	19.1
	Port Huron Com. College	18.5
60		
	Michigan Collage of Mining & Tech. (Sault	
	P-37 (12 rooms)**	17.2
	Flint Com. College	17.1
	Grand Rapids Com. College	17.8
	Wisconsin State College - Superior	17.7
50		
	Wisconsin State College-Whitewater	16.0
	Wisconsin State College-Oshkosh	16.6
	Wisconsin State College-River Falls	16.8
	Michigan College of Mining & Tech. (Hough	ton) 15.9
	Michigan State University	16.6
	Western Michigan University	16.2
	P-25 (54 rooms)**	16.7
	Northwestern Com. College	16.7
	Valparaiso University	16.4

(CONTINUED)

^{**}Private colleges in Michigan not identified by name. However, we shall identify each by the number of rooms reported.



^{*}Based on norms from Manual for Studies of Space Utilization in Colleges and Universities, John Dale Russell and James I. Doi, p.97.

TABLE 26 (CONTINUED)

COMPARISON OF ROOM-PERIOD UTILIZATION FOR TEACHING LABORATORIES AMONG MICHIGAN INSTITUTIONS, FALL 1956, WISCONSIN UNIVERSITY AND STATE INSTITUTIONS, FALL 1956, and VALPARAISO UNIVERSITY, FALL 1957.

			Average Number
ercentile	Rank	Institution	Periods Used Per Week
40			
		Eastern Michigan College	14.3
		P-27 (9 rooms)**	13.0
		P-13 (22 rooms)**	14.0
		Jackson Com. College	14.3
	•	Wisconsin State College-Platteville	14.6
30		·	
		Northern Michigan College	10.9
		P-40 (10 rooms)**	11.3
		Benton Harbor Com. College	11.2
		Wisconsin Inst. of Technology	10.0
20			
		P-15 (12 rooms)**	8.8
10			
		P-10 (24 rooms)**	7.1
		P-31 (14 rooms)**	5.6
		P-36 (9 rooms)**	7.3
1			

^{**}Private colleges in Michigan not identified by name. However, we shall identify each by the number of rooms reported.



^{*}Based on norms from Manual for Studies of Space Utilization in Colleges and Universities, John Dale Russell and James I. Doi, p. 97.

TABLE 27

COMPARISON OF THE AVERAGE PERCENTAGE OF POSSIBLE ROOM-PERIOD UTILIZATION OF TRACHING LABORATORIES BY DAYS OF THE WEEK AT MICHIGAN INSTITUTIONS, FALL 1956, BASED ON 44-PERIOD WEEK, WITH THE PERCENTAGE AT VALPARAISO UNIVERSITY, FALL 1957

Institution	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday A.M.
Valparaiso Univ.	36.5	50.9	39.8	49.0	29.6	0.0
Michigan Inst. State Controlled	47.2	50.5	47.4	48.4	38.6	13.3
Privately Con- trolled	33.6	34.2	35.8	31.4	23.5	2.8
Community	53.6	54.4	55.2	50.1	37.4	1.7



TABLE 28

COMPARISON OF THE AVERAGE PERCENTAGE OF POSSIBLE ROOM-PERIOD OCCUPANCY OF TEACHING LABORATORIES BY HOURS OF THE DAY AT MICHIGAN INSTITUTIONS, FALL 1956, BASED ON 44-PERIOD WEEK, WITH THE PERCENTAGE AT VALPARAISO UNIVERSITY, FALL 1957.

Institution	7-8	8-9	9-10	10-11	11-12	12-1	1-2	2-3	3-4	4-5	5-6
Valparaiso Univ.		19.7	26.5	21.6	15.4	34.0	48.1	55.5	44.4	<u>.</u>	
Michigan Instit. State Controlled	0.8	32.2	38. 0	39.5	35.1	10.8	39.8	49.1	44.8	32.7	9.7
Privately Con- trollad	0.3	14.6	19.9	19.4	17.2	13.4	30.2	36.0	29.5	17.0	2.6
Community	2.6	31.1	3 7.8	33.8	29.5	22.2	39.2	46.3	35.7	27.2	9.1



TABLE 29

LABORATORIES OF EACH SIZE AT MICHIGAN INSTITUTIONS, FALL 1956, BASED ON 44-PERIOD WEEK, WITH THE PERCENTACE AT VALPARAISO UNIVERSITY, FALL 1957 COMPARISON OF THE AVERACE PERCENTAGE OF POSSIBLE ROOM-PERIOD UTILIZATION OF TEACHING

			Manb	er of S	Number of Student Stat	Station	fons in Room	85				
Institution	1-10	11-20	1-10 11-20 21-30 31-40	31-40	41-50	21-60	. 08-19	81-100	101-150	151-200	201-250	du 3 152 25-109 21-20 101-150 151-200 201-250 251 & up
Valparaiso Univ.	11.3 26.8		44.5 58.5				6.04					
Michigan Inst.												
State Controlled 17.5 38.3	17.5	38.3	46.4	54.3	24.4	52.3	50.4	39.6	63.9	65.9		
Privately Con-								•				_
trolled	3.1	3.1 19.4	31.8	50.8	65.5	49.3	35.8		44.7			
Community	8.6	9.8 29.5	48.6	57.5	30.4		9 69					
		T		+				-	-			

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RECAPITULATION OF ROOM-PERIOD UTILIZATION COMPARISONS

GENERAL CLASSROOMS

- 1. The room-period utilization of Valparaiso University is very high in the representative group. It is in the same group as the University of Michigan and the University of Wisconsin.
- 2. As in the Michigan institutions, the room-period use at Valparaiso
 University is greater on Monday, Wednesday, and Friday than on Tuesday
 and Thursday.
- 3. The average percentage of use on Tuesday and Thursday at the Michigan institutions is greater than at Valparaiso University.
- 4. The maximum average percentages of utilization at Michigan institutions are for Monday, while at Valparaiso University, Wednesday is the day that has the best utilization. The minimum at Michigan institutions falls on Thursday and Friday compared to Thursday at Valparaiso University.
- 5. Beginning at the 3 o'clock hour, the percentage of occupancy is lower than at any other hour. The 9 o'clock hour has the greatest percentage of occupancy at Valparaiso University as well as at the state and privately controlled institutions in Michigan.
- 6. The largest number of rooms at Valparaiso University are those seating 41-50 students. This group has a utilization percentage of 59.7. The second largest group at Valparaiso University are those seating 61-80 students. This group has a utilization percentage of 66.4 as compared to the 70 per cent of the state-controlled group in the Michigan institutions.



TEACHING LABORATORIES

- 1. The utilization at Valparaiso University is lower than 60 per cent of those institutions in the representative group. It is in the same group as Michigan State University and Western Michigan University.
- 2. The use of the laboratories are greater on Tuesday and Thursday than on any other day of the week. The same holds true for the state-controlled institutions in Michigan while Tuesday and Wednesday are used to a greater extent in the privately-controlled and community institutions in Michigan.
- 3. The minimum percentage of utilization occurs on Friday at Valparaiso
 University as well as at the Michigan institutions. The use of Saturday
 is almost non-existent except for the state-controlled institutions in
 Michigan.
- 4. At Valparaiso University and at the Michigan institutions, the afternoon hours have a higher percentage of occupancy than do the morning hours.

 At these institutions, the peak hour of the day is the 2 o'clock hour.
- 5. The highest percentage of utilization is most frequently found in rooms with 21-30 student-stations and with 31-40 student-stations. The lowest percentage of utilization at both Valparaiso University and the Michigan institutions is in rooms of 1-10 student-stations.



STUDENT-STATION UTILIZATION COMPARISONS

As in the case of the room-period utilization comparisons, the utilization data in the Space Utilization and Value of Physical Plants (Staff Study No. 9) and the Survey of Physical Facilities at Wisconsin State Colleges and University of Wisconsin Fall, 1956 10 again are used for comparison purposes.

CENERAL CLASSROOMS

Table 30, as in Table 22, shows the student-station utilization rates as compared with those in the representative group. Here, again, it is seen that in the case of Valparaiso University, 70 per cent of the representative groups throughout the country have a lower average number of hours of use per week than does Valparaiso, but only 30 per cent of this same representative group has a lower percentage of student-station use, when the rooms are in use, than at Valparaiso University. It is evident that Valparaiso University does not utilize the student-stations as intensively as it should. Consequently, for better utilization of existing facilities, Valparaiso University should attempt to increase the size of its classes or else cut the rooms down to a more economical size. If the latter suggestion would be followed, it would increase its number of rooms without having to build new classrooms.

Table 31 shows the comparative data on the student-station-period utilization by days of the week. From the table it is seen that in the Michigan institutions, Monday is the day on which the maximum utilization occurs as compared to Wednesday at Valparaiso University. The minimum is on Thursday at Valparaiso University as well as at the state-controlled and community institutions in Michigan, while the minimum in the privately-controlled institutions is on Friday.

Wisconsin. Joint Staff of Coordinating Committee for Higher Education, Charts 7, 9, 15, and 17.



Russell and Jamrich, pp. 85-129

TABLE 30

COMPARISON OF STUDENT-STATION UTILIZATION FOR GENERAL CLASSROOMS AMONG MICHICAN INSTITUTIONS, FALL 1956, WISCLNSIN UNIVERSITY, FALL 1957

				<u> </u>	Percentage of Station Hee
,	A A	Average Hours of			n Roc
Percentile Rank*	Institution	Use Per Week	Percentile Rank*	Institution	in Use
66		!	66		
	Central Michigan College	18.9			
	Ferris Institute				
	P-37(1,281 student-stations) ***	18.			
•	P-25(3,047 student-stations)**				
•	Bay City Com. Collega	19.			
	y Ford Com. Co	22.9			
	Northwestern Com. College	19.0			
Ç.			06		
06	Wichigen Crate University	15.4		Western Michigan Univ.	•
	ore Thi	17.1		Battle Creek Com. College	•
	Maying Charle Charles of	16.6		Bay City Com. College	72.1
	Westell filefiles university			Henry Ford Com. College	6.89
	Tito(1)374 statement - grations/	17		Highland Park Com. College	72.4
	michigan Dery Com College	17.2			
	- 03	15.2			
į			œ		
80	The Mantage College	15.0	20	Central Michigan College	7.79
	Basterii miciilgan vollage	14.5		$\overline{}$	6.40
	For fluton come correge	12.5	-	P-15 (476 student-stations) **	
	Valparaiso University	77.7	-	P-37(1,281 student-stations)**)** 61.6
				Flint Com. College	
				on Com	64.3
				Wisconsin State College-	
			4	Stevens Point	65.3
				Wisconsin State College-	•
				Platteville	64.3
				Wisconsin State College-	•
				Whitewater	63°6
					6

TABLE 30 (CONTINUED)

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COMPARISON OF STUDENT-STATION UTILIZATION FOR GENERAL CLASSROOME AMONG MICHIGAN INSTITUTIONS, FALL 1956, WISCONSIN UNIVERSITY AND STATE INSTITUTIONS, FALL 1956, AND VALPARAISO UNIVERSITY, FALL 1957

,	¥	Average			Percentage of Station Use
	, m	Hours of			When Room
Percentile Rank*	Institution	Use Per Week	Percentile Rank	Institution	in Use
70			70		
	Jackson Com. College	12.4		Wisconain State College-	,
	Mich. Col. of Min. & Tech.			LaCrosse	58.2
	(Houghton)	12.7		Michigan Col. of Min. &	
	University of Michigan	13.3		Tech. (Houghton)	57.2
	P-27(776 student-stations)**	12.2	-	Michigan Col. of Min. &	
	P-18(309 student-stations) ##	12.3		Tech. (Sault)	61.0
	Grand Ranids Com. College	12.8		P-27(776 student-stations) ***	57.5
		•		P-10(1,313 student-stations) ##	
	•			Port Huron Com. College	58.0
				Wisconsin State College-	
				Eau Claire	60°5
			-	Wisconsin State College-	
				River Falls	58.8
				Stout State College	58.8
09	P-13/1 015 student -stations)##	11.9	09	Restern Michigan College	53.4
				Michigan State University	24.7
				P-35(441 student-stations)	7.75 ±
				P-25(3,047 student-stations) ***	1)** 57.1
				Benton Harbor Com. College	56.4
,				Grand Rapids Com. College	55.6
			****	Muskagon Com. Collage	56.7
				Northwestern Com. College	55.7



TABLE 30 (CONTINUED)

FALL 1956, COMPARISON OF STUDENT-STATION UTILIZATION FOR GENERAL CLASSROOMS AMONG MICHIGAN INSTITUTIONS, WISCONSIN UNIVERSITY AND STATE INSTITUTIONS, FALL 1956, AND VALPARAIS UNIVERSITY, FALL 1957

Station Use When Room e Rank* Institution in Use		Wisconsin State College- Superior 51.5	State College-	ď	ions)**		P-18(309 student-stations)	P-31(1,184 student-stations) ** 44.6			
Week Percentile Rank*	50							ogʻ	50	10	a Barrigh Barrigh
Average Hours of		& Tech.	**	11age 9.9		ions)** 9.5 ations)** 9.7			ions) *** 6.8		:tons)*** 5.3
Institution		1. of Min.	(Sault) Worthern Michigan College	Benton Marbor Com. Collage		P-15(476 student-stations)** P-40(1,058 student-stations)**	Battle Creek Com. Col.		P-36(515 student-stations)**	P-31(1,184 student~stations)**	P-35(441 student-stations)
Fercentile Rank*	C u	00				40		30	20	10	•

and Universities, from Manual for Studies of Space Utilization in Colleges pp. 99 and 100 *Based on norms

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^{**}Private colleges in Michigan not identified by name. However, we shall identify each by the number of student stations reported. P-15--476; P-40--1,058; P-27--776; P-13--1,015; P-10--1,313; P-31--1,184; P-37--1,281; P-18--309; P-36--515; P-35--441; P-25--3,047; P-26--1,394.

TABLE 31

COMPARISON OF THE AVERAGE PERCENTAGE OF POSSIBLE STUDENT STATION-PERIOD UTILIZATION IN GENERAL CLASSROOMS BY DAYS OF THE WEEK AT MICHIGAN INSTITUTIONS, FALL 1956, BASED ON 44-PERIOD WEEK, WITH THE PERCENTAGE AT VALPARAISO UNIVERSITY, FALL 1957.

Institution	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday A.M.
Valparaiso Univ.	41.9	25.2	42.4	21.8	37.7	0.11
Michigan Inst. State Controlled	42.7	3 3.6	38.5	33.3	36.6	5.9
Privately Controlled	39.3	33.4	37.0	32.3	30.5	7.2
Community	46.7	39.4	41.8	36.9	37.6	1.9



of student-stations occupied at the state-controlled and privately-controlled institutions while at Valparaiso University the 10 o'clock hour is the largest one, and at the community colleges the 1 o'clock hour is the largest one. The lowest percentage occurs in the late afternoon hours (3:00 P.M.) and also the noon period at the state-controlled institutions in Michigan.

Table 33 shows that the rooms with 51-60 student-stations have the greatest percentage of utilization at Valparaiso University and at the privately-controlled institutions in Michigan. The greatest average percentage of utilization at the state-controlled institutions and the community colleges is the rooms with 21-30 student-stations and 31-40 student-stations respectively. At the Michigan institutions and at Valparaiso University, the utilization of rooms with 20 student-stations or less is considerably lower than for those rooms with 31-60 student-stations, although the distribution is not quite so great in the privately-controlled institutions. Thus, if Valparaiso University should wish to construct new classrooms or change its current classrooms, it should find that this table will be very useful in determining the size most suited to its particular needs.

TEACHING LABORATORIES

Table 34 shows that, in the average hours of use per week, Valparaiso University ranks in the 60th percentile on the norms published by Russell and Doi.

In the Michigan institutions, Valparaiso University ranks in the same percentile group as seven other institutions while seven additional institutions rank in the 70th percentile. Of the seven institutions in the 70th percentile, three represent state-controlled schools; three represent community schools; and only one represents privately-controlled institutions. Valparaiso University ranks in the 50th percentile on the norms for the percentage of station use when the rooms are in use. Again,



in comparing Valparaiso University with those in Michigan and Wisconsin, it is seen that a total of eight institutions out of a group of forty-one fall into this same range--50th percentile. The University of Michigan's low ranking in the utilization of student-stations when the rooms are in use can be explained by the fact they have included a fairly large number of specialized research laboratories which are used by one or two graduste students, and the high ranking of the Michigan community colleges is due to the fact that their programs are limited to freshman and sophomore courses. 11

Table 35 shows that in the utilization of student-stations by days of the week, the highest rate varies with the different institutions. The highest percentage occurs on Thursday at Valparaiso University, while at the state-controlled institutions it occurs on Tuesday, and at the privately-controlled and community institutions, it occurs on Wednesday. The lowest percentage occurs on Friday at both Valparaiso University and the Michigan institutions.

From the data in Table 36, it is noted that the highest percentages of student-station utilization occurs at all institutions in the afternoon hours with the two o'clock hour having the highest percentage at each of these institutions. The morning hours have a much lower percentage of utilization except at the Michigan community colleges. The percentages of utilization of the ten o'clock and eleven o'clock periods are very similar between Valparaiso University and the Michigan privately-controlled institutions.

Table 37 indicates that the highest percentage of utilization occurs for rooms with 31-40 student-stations at Valparaiso University as well as at the Michigan institutions. The next highest percentage of utilization occurs for rooms with 21-30 student-stations at Valparaiso University and at Michigan state-controlled and community institutions. The second highest percentage at Michigan privately-



Russell and Jamrich, pp. 112 and 114

controlled institutions occurs for rooms with 51-60 student-stations. Again, the data found in this table will be of the utmost value if Valparaiso University should desire to build new laboratories or to change its existing facilities.



TABLE 32

COMPARISON OF THE AVERAGE PERCENTAGE OF POSSIBLE STUDENT STATION-PERIOD UTILIZATION IN CENERAL CLASSROOMS BY HOURS OF THE DAY AT MICHIGAN INSTITUTIONS, FALL 1956, BASED ON 44-PERIOD WEEK, WITH THE PERCENTAGE AT VALPARAISO UNIVERSITY, FALL 1957.

Institution	7-8	8-9	9-10	10-11	11-12	12-1	1-2	2-3	3-4	4-5	5-6
Valparaiso Univ.		32.5	38.9	40.1	26.8	31.6	35.1	22.4	8.5		
Michigan Instit. State Controlled	0.2	29.9	37. 8	3 6.9	34.1	15.5	35.4	31.9	19.4	9.8	4.3
Privately Controlled	0.2	28.5	33.7	30.2	30.3	24.7	27.0	20.4	12.0	4.6	2.3
Community	1.5	30.1	35.7	34.4	31.3	24.4	37.7	29.6	12.7	5.8	4.7



TABLE 33

COMPARISON OF THE AVERAGE PERCENTAGE OF POSSIBLE STUDENT STATION-PERIOD UTILIZATION OF CENERAL CLASSROOMS OF EACH SIZE AT MICHIGAN INSTITUTIONS, FALL 1956, BASED ON 44-PERIOD WEEK, WITH THE PERCENTAGE AT VALPARAISO UNIVERSITY, FALL 1957.

			N.	Number of Student	Studen		Stations in Room	LOOT				
				_								251 €
Institution	1-10	11-20	1-10 11-20 21-30 31-40 41-50	31-40	41-50	51-60	61-80	81-100	51-60 61-80 81-100 101-150 151-200	151-200	201-250	ďη
Valuaraiso Univ.		25.4	29.3	35.7	35.4	39.2	32.3	26.0	27.3		7.8	
Michigan Instit.												د وفيد مستحد
1ed		27.6 26.8	42.2	41.3	37.3	37.2	32.4	26.2	24.7	26.6	24.0	23.1
Privately	12 8	C 7C	33 7	20.8	8 %	39.65	30.0	27.4	38.8	7.2	27.0	22.1
COUCLOTTEG	74.0	_					_	_				
Community	2.4	2.4 5.5	34.5	34.5 43.8	36.6	42.9	42.9 17.6 17.2	17.2	34.3			



TABLE 34

ERIC

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COMPARISON OF STUDENT STATION UTILIZATION FOR TEACHING LABORATORIES AMONG MICHIGAN INSTITUTIONS, FALL 1956, WISCONSIN UNIVERSITY AND STATE INSTITUTIONS, FALL 1956, AND VALPARAISO UNIVERSITY, FALL 1957.

Percentile Rank*		Average Houre of			of Station Use When
	Institution	Use Par Week	Percentile Rank*	Institution	Room in Use
06			66		
	Bay Ciry Com. College	24.7		Bay City Com. College	85.4
	Com.	24.8		Muskagon Com. College	82.1
		_		Fort Muron Com. College	. co
O			06	scour state correse	***
	Perris Institute	17.0		Wayne State University	76.4
	ъ	18.0		Grand Rapids Com. College	77.0
	Ment J total Carried			Mighland Park Com. College	77.5
				Wisconsin State College-	
				River Falls	81.7
				Wisconsin State College-	,
				Whitewater	79.4
				Wisconsin State College-	
•			Ċα	LaCrosse	77.6
08	Central Michigan Collage	15.0		Bastern Michigan College	71.9
	University of Michigan	14.7			73.7
	Wayne State University	16.1		Michigan State University	73.5
	P-25(1.365 student stations)**15)**15.1		P-13(552 student stations) **	₹ 70.7
	Grand Rapids Com. College	15.3		Flint Com. College	73.4
	Highland Park Com. College	15.9		Jackson Com. College	71.3
	Port Huron Com. College	14.3		Univ. of Wisconsin	70.7

(CONTINUED)

66

(CONTINUED)

TABLE 34 (CONTINUED)

COMPARISON OF STUDENT STATION UTILIZATION FOR TEACHING LABORATORIES AMONG MICHIGAN INSTITUTIONS, FALL 1956, WISCONSIN UNIVERSITY AND STATE INSTITUTIONS, FALL 1956, AND VALPARAISO UNIVERSITY, FALL 1957.

44 ==		•	}																									6
Percentage of Station	Use When	Room in Use		* 67.6	1	67.2					66.3		63.4	65.4	66.3	63.3	67.1		65.0	,	D. 1	66.2		ς γ. α	62.0) 	59.9	
Per Control of Control		Institution Roc		P-25(1,365 student-stations)**	Wisconsin State College -	Stevens Point					Central Michigan College		Tech. (Houghton)	Northern Michigan College	Western Michigan Univ.	Henry Ford Com. Collage	Eau Claire	Wisconsin State College-	Superior	Wisconsin State College-	Platteville	Valparaiso University	,	P-27(245 student-stations)**	Masoneth That of Torb	•	Wisconsin beate collage	
		Percentile Rank*	70							09													50					
	Average	Hours of		13.3	12.1		13.	13.0	12.2			71.6) •											-	6.6			
	G	Treffitton		Eastern Michigan College	Michigan State University Western Michigan Indu.	P-13(552 student-stations)#4	P-37 (405 student-stations)**	Flint Com. College	Jackson Com. College Valparaiso University		Michigan College of Min.	(Bosephon)												P-18(131 student-stations) **	Northwestern Com. College			
		the state of the s	rercenciae rann-							0	00												50					

TABLE 34 (CONTINUED)

COMPARISON OF STUDENT STATION UTILIZATION FOR TEACHING LABORATORIES AMONG MICHIGAN INSTITUTIONS, FALL 1956, WISCONSIN UNIVERSITY AND STATE INSTITUTIONS, FALL 1956, AND VALPARAISO UNIVERSITY, FALL 1957.

Hichigan College of Min. Michigan College of Min. A. Tech. (Sauit) P-27(245 student-stations)** 8.8 Northern Michigan College P-40(211 student-stations)** 6.9 P-15(193 student-stations)** 4.6 P-16(195 student-stations)** 4.6 P-16(195 student-stations)** 4.6 P-16(195 student-stations)** 4.6 P-16(195 student-stations)** 4.6 P-16(195 student-stations)** 4.6 P-16(195 student-stations)** 4.8	Michigan College of Min. Michigan College of Min. Auchigan College of Min. Benton Harbor Com. College Auchigan College of Min. Benton Harbor Com. College Auchigan College of Min. & 100 Auchigan				•		Percentage of Station
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P-15(193 student-stations)*** 5.4 P-10(679 student-stations)*** 4.6 P-10(679 student-stations)*** 4.8 Northwestern Com. Coliege 10 P-31(440 student-stations)*** 3.7 P-31(440 student-stations)*** 1	P-15(193 student-stations)** 5.4 P-10(679 student-stations)** 4.6 P-36(224 student-stations)** 4.8 Northwestern Com. College 10 P-31(440 student-stations)** 3.7 1 P-31(440 student-stations)** 3.7 1	20			20		
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P-18(131 student-stations)**	P-18(131 student-stations)**		P-31(440 student-station	•		P-10 (679 student-station	
					7		

*Based on norms from Manual for Studies of Space Utilization in Colleges and Universities, John Dale Russell and James I. Doi, pp. 99 and 100.

In Michigan not identified by name. However, we shall identify by number of student stations reported. **Private colleges i



TABLE 35

COMPARISON OF THE AVERAGE PERCENTAGE OF POSSIBLE STUDENT-STATION-PERIOD UTILIZATION OF TEACHING LABORATORIES BY DAYS OF THE WEEK AT MICHIGAN INSTITUTIONS, FALL 1956, BASED ON 44-PERIOD WEEK, WITH THE PERCENTAGE AT VALPARAISO UNIVERSITY, FALL 1957

Institution	Monday	Tuesday	Wednesday	Thursday	lriday	Saturday A.M.
Valparaiso Univ.	25.9	33.9	32.2	36.4	24.5	0.0
Michigan Instit. State Controlled	34.4	36.3	34.2	35.2	27.8	7.9
Privately Controlled	27.2	26.1	28.8	25.5	16.5	1.6
Community	41.8	40.0	42.4	36.7	29.2	0.1



TABLE 36

COMPARISON OF THE AVERAGE PERCENTAGE OF POSSIBLE STUDENT-STATION-PERIOD UTILIZATION OF TEACHING LABORATORIES BY HOURS OF THE DAY AT MICHIGAN INSTITUTIONS, FALL 1956, BASED ON 44-PERIOD WEEK, WITH THE PERCENTAGE AT VALPARAISO UNIVERSITY, FALL 1957.

											ł
Institution	7-8	8-9	9-10	10-11	11-12	12-1	1-2	2-3	3-4	4-5	5-6
Valparaiso Univ.		17.3	22.2	16.1	13.7	20.1	34.4	40.2	30.9		
Michigan Instit.			07.0	07.0	26. 2	8.4	29.6	35.3	32.6	24.4	7.5
State Controlle	<u>d0.8</u>	23.7	27.2	27.8	24.3	0.4	29.0	33.3	32.0	24.4	1
Privately Controlled	0.1	11.4	14.4	14.7	13.1	11.7	24.3	26.6	20.8	11.5	1.3
Community	2.6	25.9	30.7	29.6	24.6	16.0	27.2	33.1	26.4	19.6	6.4



TABLE 37

COMPARISON OF THE AVERACE PERCENTAGE OF POSSIBLE STUDENT-STATION-PERIOD UTILIZATION OF TEACHING LABORATORIES OF EACH SIZE AT MICHIGAN INSTITUTIONS, FALL 1956, BASED ON 44-PERIOD WEEK, WITH THE PERCENTAGE AT VALPARAISO UNIVERSITY, FALL 1957.

			2	Wimber of Student	Studen	1	Stations in Rooms	Roome				
			6	07 10	7.1 50	l v	61-60 61-80		81-100 101-150 151-200 201-250	151-200	201-250	251 & up
Institution	01-1	07-11	77-30	1-10 11-70 71-30 21-40 41-20	200	20-16	20-10		222 122			
Valparaiso Eniv.	7.8	7.8 18.9		25.5 45.6			22.1					
							,					
Michigan Instit.												
State Control-	17.1	26.7	33.9	33.9 35.6 29.3	29.3	28.1	28.6	13.1	31.3	22.2		
Privately	0 7	1	α οι	35 7	1 75	42.9	2.41		15.3			
Concrotted	•	0.07	27.00	100	4 6 2 7							
Community	9.2	30.2	37.1	9.2 30.2 37.1 38.7 11.9	11.9		28.3					



RECAPITULATION OF STUDENT-STATION UTILIZATION COMPALISONS

GENERAL CLASSROOMS

- 1. In comparison with other institutions throughout the country, it is noted that, in the average number of hours of use per week, Valparaiso University has a high rate of utilization. On the other hand, Valparaiso has a very low rate of student-station utilization when the rooms are in use.
- 2. At the Michigan institutions, the student-stations are used more on Mondays than on any other day in the week, while at Valparaiso University We'nesdays have the greatest utilization. The minimum usage is on Thursdays at Valparaiso as well as at the state-controlled and community institutions in Michigan.
- 3. The student-stations at Valparaiso University are most used at the 9 o'clock, the 10 o'clock, and the 1 o'clock hours. This also holds true for the Michigan state-controlled and community institutions. The most used student-stations at the Michigan privately-controlled institutions are between the hours of 9:00 A.M. to 12 noon. Very little use is made of the student-stations after the 3 o'clock period.
- 4. The rooms that have a seating capacity from 21-60 student-stations are utilized to the greatest extent. Rooms with a capacity of 20 student-stations or less are used very little.

TEACHING LABORATORIES

- 1. In comparison with other institutions throughout the country, Valparaiso University ranks favorably in the use of its facilities.
- 2. The most used days at Valparaiso University and at the Michigan statecontrolled institutions are Tuesdays and Thursdays. At the Michigan
 privately-controlled and community institutions, the heaviest use is on



1

Mondays and Wednesdays. The highest used day is on Fridays at both Valparaiso and the Michigan institutions.

- 3. The highest percentage of use occurs in the afternoon hours with the two o'clock hour having the highest utilization. The morning hours have a much lower percentage of utilization except at the Michigan community colleges.
- 4. The rooms with 31-40 student-stations have the best percentage of utilization at Valparaiso University as well as at the Michigan institutions.



CONCLUSIONS

In retrospect, the 27 per cent average utilization of room-period meetings in the general classrooms at Valparaiso University ranks high when compared to the other institutions throughout the country. However, its utilization of 49 per cent on the average of the student-stations when the rooms are in use is fairly low when compared to the other institutions throughout the country. Valparaiso's utilization of the teaching laboratories compares favorably with other institutions throughout the country with the utilization especially high in its basic laboratories for biology, chemistry, and physics. If the Wisconsin recommendations that classrooms be used on an average of 30 periods per week with 67 per cent of the stations occupied and that laboratories be used 24 periodsper week at 80 per cent utilization, 12 then Valparaiso University could increase its enrollment from 2,360 to 2,600 without additional classroom facilities if the average use of the general classrooms is increased from 2? hours to 30 hours per week. Since the rooms at Valparaiso are generally larger than the size of the classes that its faculty, in general, considers desirable (57 average student-stations per classroom as against a desirable class of 30 students) it could, if it is considered educationally desirable, accommodate 3,200 students if it increases its average student-station utilization from 49 per cent to 67 per cent or approximately 3,800 students if we increase from 49 per cent to 80 per cent. 13



Wisconsin Joint Staff of Coordinating Committee for Higher Education, <u>Survey</u> of Physical Facilities at Wisconsin State Colleges and University of Wisconsin, Research Study VI, Part 2, Recommended Standards. (Madison: Coordinating Committee for Migher Education, June, 1958), p. 11.

Russell and Jamrich, p. 94

There are a number of ways in which Valparaiso University could improve its space utilization. The best area for improvement would seem to be in the method of scheduling classes. Improvement could be made in scheduling more classes in the early morning and in the late afternoon. Difficulties will arise in scheduling late afternoon classes as this is the time of day that a good many extra-curricular activities are scheduled. Valparaiso might well consider the return to use of the noon period where it formerly used this hour for a total of 132 periods. If the dining facilities could be scheduled to serve lunches from 12 o'clock noon to 2 o'clock, it seems that it would be possible for nearly all students to arrange their schedule in such a manner as to be able to have lunch during one of the two periods scheduled for serving. For example, by starting classes at 7:15 A.M., Valparaiso University could then have Chapel from 11:25 A.M. to 11:45 A.M. and commence classes again on the hour, beginning with the 12 o'clock period. Practically no use has been made of classes scheduled on Saturday mornings. It would seem that the method of requiring all departments to have a certain percentage of their 3-hour courses scheduled for Tuesday, Thursday, and Saturday morning or for Tuesday and Thursday afternoon and Saturday morning is an effective method for equalizing the demands on the different days of the week. A study might be made regarding the reorganization of courses by the number of credits -- offer more 2-credit courses instead of the usual 3-credit courses in order to utilize Tuesday and Thursday more effectively. Currently Valparaiso University is using on a limited scale the practice of scheduling a 3-hour course on Tuesday and Thursday for 75-minute periods. So far there have been few complaints against this practice and it might be that it should utilize this method to a greater extent.

Referring back to Table 7, it is noted that 97 per cent of the class-period meetings are for classes with 60 students or less while 66 per cent of the class-period meetings are conducted in rooms with a student-station capacity of 60 or less.



In is in this area that it is felt a major step could be taken to improve the utilization of the University's existing facilities, especially if it wants to keep its class size, in general, limited to 30 students. Table 38 shows the size of classes and number of periods utilized per week in relation to capacity of the general classrooms. In the 61-100 student-station rooms (10) it is noted that only 8 periods of the total 295 periods used have an enrollment that is compatible with the size of the rooms. Therefore, it is suggested that the following rooms in this category be divided into two rooms if it is sound from an engineering viewpoint. The rooms that would be altered are as follows:

<u>Room</u>	Current Capacity	New Capacity*
B-15 (Biology)	80	40
		40
GH-110 (Graland Hall)	70	35
		35
GG-110 (Greenwich Group)	73	36
		37
GG-114 (Greenwich Group)	68	34
		34
GG-124 (Greenwich Group)	95	47
		48
Sc21** (Science)	· 64	32
		32

*Estimated figures depending on the actual division of the rooms.

**May not be adaptable.

Thus, by creating 5 or 6 new classrooms at a seemingly reasonable cost,

Valparaiso University could easily absorb the classes between 61-80 students into
the two rooms with 101-150 student-stations. The classes of 50 students or less



could then be, for the most part, rearranged in its existing rooms leaving many open periods in the newly created rooms.



TABLE 38

SIZE OF CLASSES AND NUMBER OF PERIODS UTILIZED PER WEEK IN RELATION TO CAPACITY OF THE ROOMS FOR GENERAL CLASSROOMS AT VALPARAISO UNIVERSITY, FALL 1957.

	Nemo			1	- 1	1						
Room	Pud	Number	ot	Class-Period	iod Meetings	ings Per	Week Kor	Size	r kacn Class	188	Total	Average Periods
Cap.	Ru. No.	0-10	11-20	21-30	31-40	41-50	51-60	61-80	81-100	.101-150	Periods	Used Per Week
	AA-107*		9	15	9						27)	
31-40	AL-24	4		14							18	25.7
3	СН-109		7	16	3						26	
`	KH-13	1	10	17	7						32)	
	AL-23	_		10	12						22	
	KH-11	6	10		9	3					28	
	XH-12		7	16	8	3					31	
	KH-15-17		2	14	9	5					27)	
41-50	LM-203		6	11	6						32)	26.2
(11)	LM-204	3	3	14	9	4					30	
,	LM-303			15	3						24)	
	LM-304		6	3	6	7					25	
•	16-15			8		6					17)	
	MB-17		7	6		6					25)	
	Sc22		6	8	11						28)	
	AL-31		9	7	15	6					37	
	AL-34		7	6	13	3	3				35)	•
51-60	FA-5		3	13			8				24	31.4
3	GG-112	_	3	1.7	10	7					37)	
	GG-204-6	L	2	3			15				25)	
	EH-7-9		8	7	3	6					29	
	CH-1 0	2	8	19	4						33)	
	AL-1				16	18	2				36	
	AL-33	_	7	8	8	2	6				33	
	B-15	2		10	2	2					16	
61-80	GH-110		ဗ	8	13	9	3				33)	29.2
(6)	cG-110		9	17	9	1		Ţ			31	
·	GC-114		1	18	5						33)	
	G & 116*		2	13	6		9				30	
	Sc12		3	2	6	3	7	7			29	
~ 	Sc21	_	3	7	9	3	3				22	

(CONTINUED)

WHAS been altered since the report was made.



TABLE 38 (CONTINUED)

SIZE OF CLASSES AND NUMBER OF PERIODS UTILIZED PER WEEK IN RELATION TO CAPACITY OF THE ROOMS FOR GENERAL CLASSROOMS AT VALPARAISO UNIVERSITY, FALL 1957.

Room	Name	Number	of Clas	s-Periou	Meeting	s Per We	iek for (ize of E	Number of Class-Period Meetings Per Week for Size of Each Glass		Tosal	Average Doverode
Cap.	Rm. No.	0-10	0-10 11-20 21-30	21-30	31-40 41-50 51-60 6	41-50	51-60	1-80	81-100	101-150	Periods	Used Per Week
81-100												
(1)	GG-124		3	77	9	רט		m			32	
101-	B-10		က	7	_F =1	7		2	2	4	23)	
(2)	s15	7	S	7	ĸ		7	ó	2	2	31)	27.0