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Detailed information concerning the kinds and quantities of possessions of a representative group of University of California students is presented. The findings permit appraisal of the degree of effectiveness of existing student storage elements. Inventory questionnaires were distributed to single students on four University of California campuses during the months of January 1967. The campuses involved were Davis, Los Angeles, Riverside, and Santa Barbara. A summary of the tabulated information appears in sections 4 and 5. The questionnaire further gave an opportunity to obtain useful information about student living habits and student opinions about their living quarters. In planning the student room, consideration must be given not only to the qualitative adaptability of furniture but also a quantitative adaptability so that the student may add or subtract storage furnishings as needed to accommodate his possessions. There appears to be a need for furnishings which can further permit each student to personalize his room by allowing the storage of possessions according to his own preference. In developing storage, the primary focus should be on possessions which are frequently used and must, therefore, be immediately accessible. (RK)

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STORAGE STUDY

EF 003469

UNIVERSITY RESIDENTIAL BUILDING SYSTEM

A Project of the UNIVERSITY OF CALIFORNIA



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**UNIVERSITY RESIDENTIAL BUILDING SYSTEM**

A Project Of

**THE UNIVERSITY OF CALIFORNIA**

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**EDUCATIONAL FACILITIES LABORATORIES, INC.**  
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## PREFACE

The primary purpose of this Storage Study was to obtain detailed information concerning the kinds and quantities of possessions of a representative group of University of California students.

A corollary benefit is that the findings permit appraisal of the degree of effectiveness of existing student storage elements.

We are indebted to many for assistance in the collection, verification and computation of data. Special appreciation is directed to:

Fred A. Schwendiman, Director of Auxiliary Services,  
Brigham Young University, Provo, Utah

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University of California, Riverside

J. R. Kropf, Residence Halls Administrator,  
University of California, Los Angeles

Ivan F. Richards, Dean of Students  
University of California, Davis

C. C. Tucker, Residence Halls Coordinator,  
University of California, Statewide

Miss Arlene Goldstrom coordinated the study for the consultant, Building Systems Development, Inc., San Francisco.

R. Clayton Kantz  
Project Director

## **STUDENT STORAGE STUDY**

- 1. Background**
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**Inventory and Questionnaire Form**

## 1. BACKGROUND

The University Residential Building System (URBS) Project for the University of California is developing a system of building components to be used in the construction of housing for 4,500 to 9,000 students. The buildings, scheduled for occupancy between 1970 and 1973, are expected to provide a variety of housing for both single and married students.

The URBS Project commenced with the development of the User Requirements<sup>1</sup> --a study of the environmental needs of those students living in and using university student housing. The User Requirements noted two major requirements of the contemporary student that new housing must accommodate. These are: (1) his desire for individual recognition and expression, and (2) his increasing affluence as evidenced by the number of his possessions. The objectives of URBS, accordingly, include increasing the variety of building types and configurations to reduce the institutional atmosphere of the residence hall, and providing for adaptability within the buildings to allow for individual tastes as well as student preferences and campus policies that change over time.

The URBE building components are Structure-Ceiling, Heating-Ventilating-Cooling, Partitions, Bathrooms and Furnishings. These components will provide for structures that may range from one to thirteen stories in height. The majority of partitions will be demountable, by university or contracting personnel. All furniture will be movable, giving each student the freedom to determine the arrangement of his own room.

In the course of developing performance specifications for the furnishings, numerous discussions were held with university representatives, and a great deal of literature was reviewed. Certain elements in the student room seemed adequate, others, while marginal, suggested their own further development.

Storage, on the other hand, seemed inadequate,<sup>2</sup> but no basic research was available for validation or development. Since possessions are the reason for storage, and since people use their possessions to personalize their environment, it was felt that the most meaningful research could be carried out by the students themselves.

<sup>1</sup>URBS Publication 2, October 1967

<sup>2</sup>Figure No. One shows the typical provision of furniture in a University of California residence hall.

For a more detailed presentation of existing storage elements, see the URBS Student Housing Cost Study, October 1967, URBS Publication No. 3.

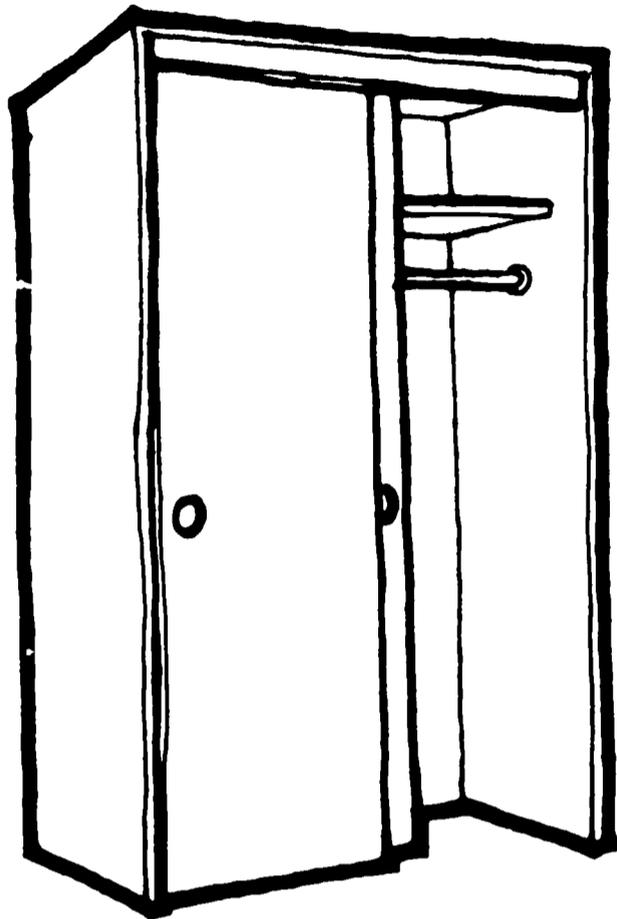
## 2. METHOD

The primary objective of the storage study was to obtain detailed information concerning the kinds and quantities of possessions of a representative group of University of California students. Inventory questionnaires were distributed to single students on four University of California campuses during the month of January 1967. The campuses involved were Davis, Los Angeles, Riverside and Santa Barbara. The same questionnaire was distributed at Brigham Young University, Provo, Utah. A summary of the tabulated information appears in Sections 4 and 5 hereafter. The questionnaire further gave an opportunity to obtain useful information about student living habits and student opinions about their living quarters. This information is regarded as supplementary to the inventory of possessions. Although it is not statistically significant, it does have relevance as a supplement to the User Requirements Study.<sup>3</sup>

<sup>3</sup>See Appendix for a sample of the Inventory and Questionnaire.

FIGURE NO. ONE

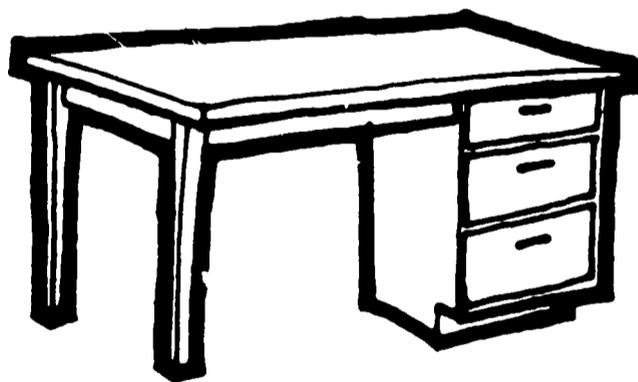
TYPICAL PRESENT PROVISION OF FURNITURE  
IN A  
UNIVERSITY OF CALIFORNIA RESIDENCE HALL



Wardrobe  
96"H, 48"W, 25"D



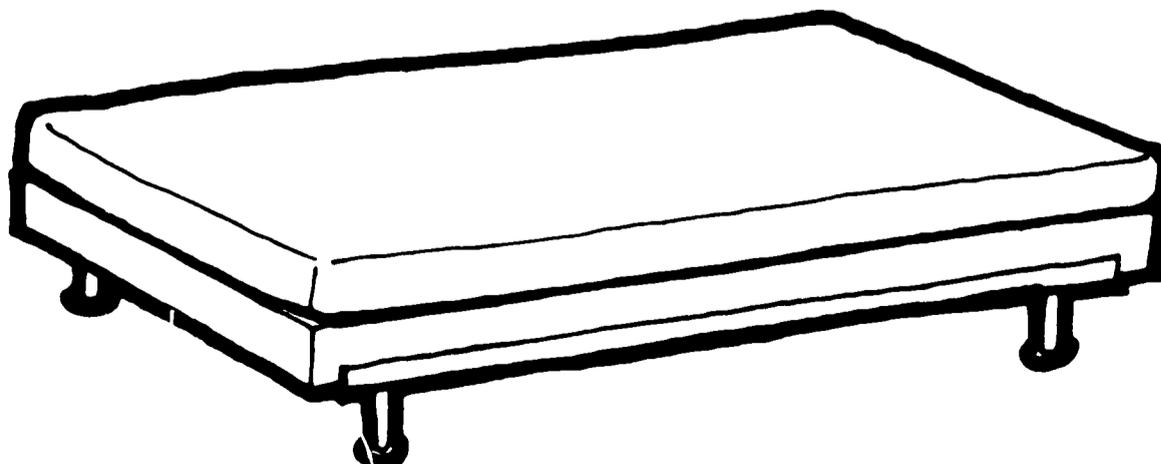
Dresser  
38"H, 28"W, 20"D



Desk 29"H, 42"W, 24"D



Chair 18"H, 20"W, 20"D



Bed 18"H, 38"W, 82"L

### 3. SUMMARY OF FINDINGS

The variety of students, climate and social conditions represented at the four campuses of the University of California suggests that the basic findings may generally apply to other colleges and universities as well. Although the inventories from Brigham Young University closely followed the University of California patterns, it would be advisable to do an inventory sample in other particular campus situations.

The most striking aspect of the results is the wide range in quantity of possessions among individual students. For example, the number of suits owned by male students at Los Angeles campus ranged from one to eleven, shirts at the Santa Barbara campus ranged from seven to thirty-five, the number of dresses at the Davis campus ranged from one to twenty-seven. This strongly indicates that in planning the student room, one must take into account not only qualitative adaptability of furniture--its ability to fit into many arrangements--but also a quantitative adaptability so that the student may add or subtract storage furnishings as needed to accommodate his possessions.

The students' comments on their storage facilities yielded a combined number of ninety-eight requests for additional closet, shelf and/or drawer space. Obviously, storage requirements frequently are not met at present.

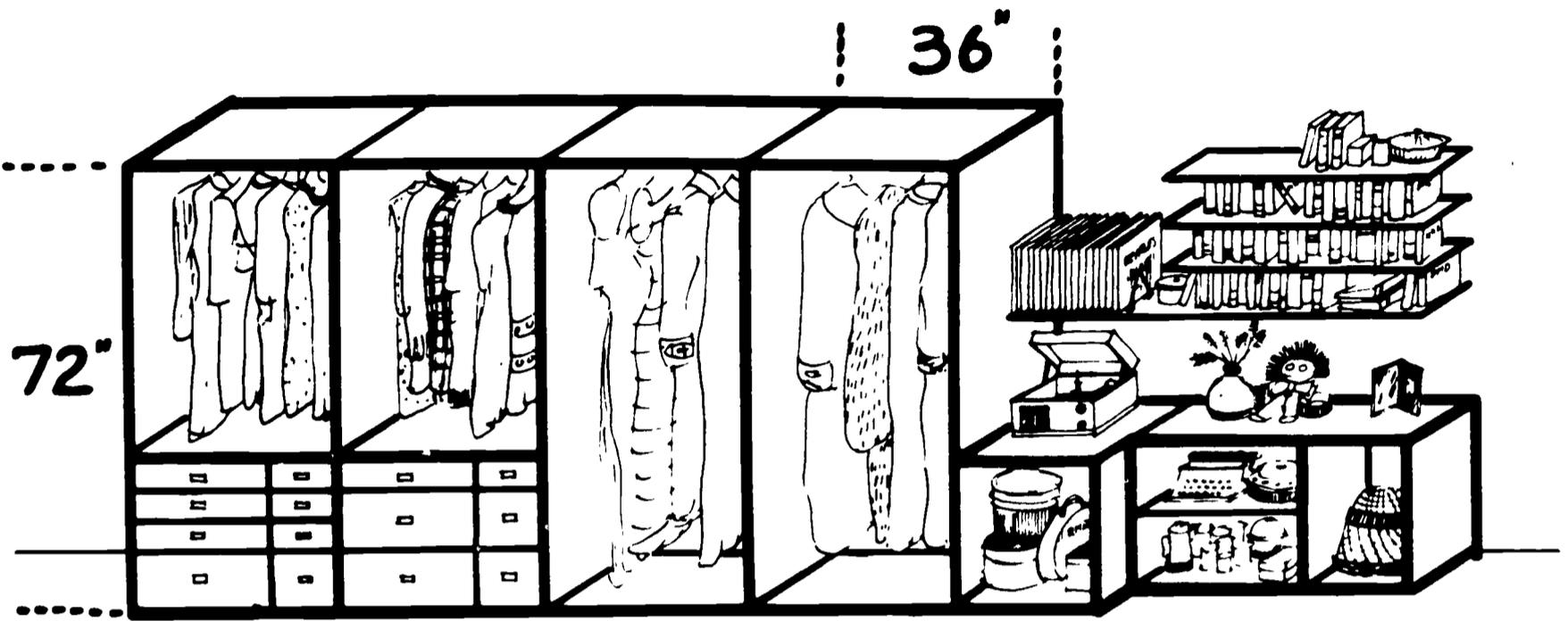
There appears to be a need for furnishings which can further permit each student to personalize his room by allowing the storage of possessions according to his own preference, e.g., to hang shirts or shorts, or to fold them in drawers; to keep a musical instrument in closed storage, on a shelf, or on the floor.

As might be expected, girls have more possessions than boys. This applies both to clothes and to additional miscellaneous items such as hairdryers and sewing equipment. A striking example of this difference in requirements is that for total hanging space at the Riverside campus the average requirement for the girls was 123.9 cubic feet, while that for the men was only 54.4 cubic feet.<sup>4</sup>

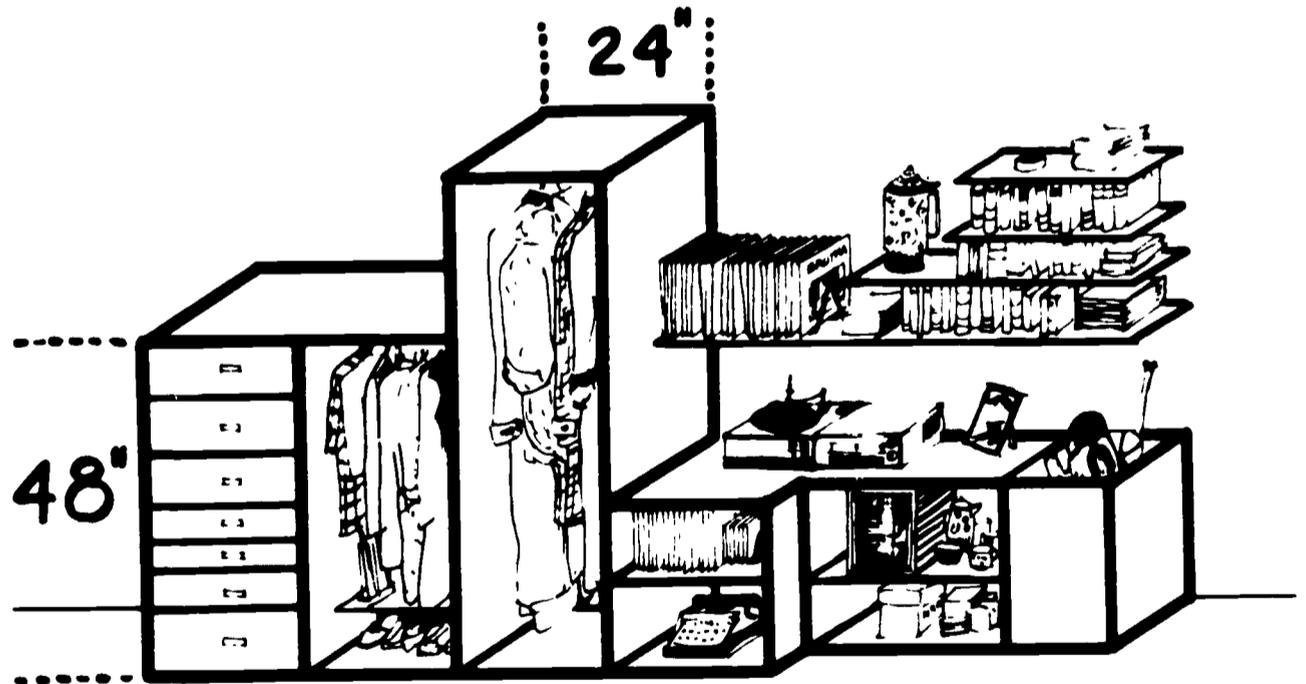
In developing storage, the primary focus is on possessions which are frequently used and must, therefore, be immediately accessible. There are wide choices for storing lesser use<sup>1</sup> and/or seasonal items. For example, storage rooms on the same floor or in a basement may be provided. Two-thirds of the respondents said they would prefer to store some items elsewhere if this would provide more space in the room. Such items included luggage, sports equipment and formals. However, a number of students had reservations about security for items stored in common spaces.

<sup>4</sup>Fig. No. Two shows in graphic form the average storage requirements for men and women at the Riverside campus.

The quantity of furnishings that students now bring into their rooms suggests the advisability of providing additional floor space in student rooms or elsewhere. Of the ninety-three students responding, eighty-three had their own blankets, fifty had their own lamp, thirteen had wastebaskets, twelve had chairs and three brought their own rugs.



## WOMEN'S AVERAGE



## MEN'S AVERAGE

FIGURE NO. TWO

STORAGE REQUIREMENTS OF MEN AND WOMEN  
 (Data is from the Riverside Campus)

#### 4. INVENTORY SUMMARY - MEN

The following Table No. One summarizes the quantities of possessions for men on the four University of California campuses. The quantities are expressed as the low, the high, and as an average.

No discernible pattern of quantities relating to academic class level was discovered. Therefore this summary does not include the student's class level.

TABLE NO. ONE  
INVENTORY SUMMARY - MEN

NUMBERS SHOW QUANTITY OF LISTED ITEMS PER STUDENT

	DAVIS			LOS ANGELES			RIVERSIDE			SANTA BARBARA		
	HIGH	LOW	AVE	HIGH	LOW	AVE	HIGH	LOW	AVE	HIGH	LOW	AVE
Suits	2	0	1.3	11	1	2.0	7	1	3	3	0	1.3
Sport coats	4	0	2.1	8	1	2.6	3	0	1.7	4	1	1.9
Jackets	5	1	2.6	3	1	2.7	3	2	2.5	7	1	3
Slacks	8	1	3.6	8	1	4.7	8	3	5.5	8	1	4.5
Overcoat	1	0	.6	2	0	.7	1	0	.5	2	0	.7
Raincoat	1	1	1	2	0	.7	1	1	1	1	0	.5
Robe	2	0	.7	2	0	.7	1	1	1	1	0	.5
Pants, jeans	11	3	5.3	12	0	3.9	6	3	4.2	9	3	5
Shirts	31	10	14.8	22	6	11.7	20	16	17.7	35	7	20.3
Shorts	3	0	1.8	4	0	1.9	4	0	1.7	5	2	3.3
Sweaters	8	3	5	10	1	4.1	6	2	4.5	13	1	5.6
Sweatshirts	7	0	3	3	0	1	2	0	1.5	3	1	1.8
T-Shirts	22	2	10.6	20	2	12.2	14	5	9	18	4	10.6
Undershorts	22	2	9.9	24	8	14.3	11	7	8.2	16	7	11.9
Pajamas	3	0	1.3	4	1	1.5	3	1	2	4	0	1.6
Socks	30	7	13	25	8	14.5	14	8	11.2	20	8	12.7
Gloves	3	0	.7	2	0	.5	2	0	1	2	0	.5
Hats	5	0	1	2	0	.8	1	0	.5	2	0	.6
Belts	6	0	2.3	6	0	2.5	3	2	1.2	5	0	3.2
Towels	6	2	3	6	1	3.8	6	1	3.5	5	2	3.3
Face cloths	3	0	1.4	4	0	1.7	7	1	3.5	3	0	1.7
Pillows, bed	2	1	1	4	0	1.2	2	1	1.2	1	0	.9
Bathing suits	2	0	1.1	4	1	1.3	2	1	1.5	3	1	2
Shoes	9	3	4.8	10	2	4.8	6	3	3.7	9	2	5.5
Boots	3	0	.5	2	0	.3	2	0	1	2	0	.4
Radio	1	0	1	2	0	1	1	1	1	3	0	.9
Phonograph	1	0	.4	1	0	.4	1	0	.7	2	0	.7
Records (ht. of stack)	11"	2"	8"	30"	3"	11"	10"	5"	6"	24"	3"	14"
Tape recorder	1	0	.3	1	0	.3	1	0	.2	1	0	.8
Tapes	4	2	3	20	3	13	6	0	1.2	12	0	5
T.V.	1	0	0	0	0	0	1	0	.5	0	0	0

TABLE NO. ONE (Continued)

INVENTORY SUMMARY - MEN

NUMBERS SHOW QUANTITY OF LISTED ITEMS PER STUDENT

	DAVIS			LOS ANGELES			RIVERSIDE			SANTA BARBARA		
	HIGH	LOW	AVE	HIGH	LOW	AVE	HIGH	LOW	AVE	HIGH	LOW	AVE
Books-length along shelf	14'	2'	5'	22'	12"	6'6"	13'	5'	8'	7'4"	12"	3'2"
Typewriter	1	0	1	1	0	.3	1	1	1	1	1	1
Iron	1	0	.8	1	0	.6	1	1	1	1	1	1
Bicycle	2	0	1	1	0	.1	1	0	.5	1	0	.4
Scooter or motorcycle	1	0	.2	1	0	.2	1	0	.2	1	0	.2
Car	1	0	.6	1	0	.6	1	1	1	1	0	.3

Sample Size

14

20

4

8

## 5. INVENTORY SUMMARY - WOMEN

The following Table No. Two summarizes the quantities of possessions for women on the four University of California campuses. The quantities are expressed as the low, the high, and as an average.

No discernible pattern of quantities relating to academic class level was discovered. Therefore this summary does not include the student's class level.

TABLE NO. TWO  
INVENTORY SUMMARY - WOMEN

NUMBERS SHOW QUANTITY OF LISTED ITEMS PER STUDENT

	DAVIS			LOS ANGELES			RIVERSIDE			SANTA BARBARA		
	HIGH	LOW	AVE	HIGH	LOW	AVE	HIGH	LOW	AVE	HIGH	LOW	AVE
Suits	6	1	3	9	1	4.1	6	2	4.2	6	2	3.3
Skirts	25	2	12	13	5	10.7	17	9	14	19	5	11
Dresses	27	1	10.3	23	2	9.6	18	14	16.3	22	0	12
Formal (long)	2	0	.7	2	0	.5	2	0	.6	2	0	1
Jacket (light)	3	0	1.2	3	0	.9	2	1	1.6	1	0	.7
Jacket (heavy)	3	0	1	1	0	.5	1	1	1	2	0	1
Overcoat (light)	2	0	1	2	0	.9	1	1	1	3	0	1.2
Overcoat (heavy)	2	0	1	2	0	1	2	1	.8	2	0	.9
Raincoat	2	0	1	1	0	.6	2	0	1	2	0	1
Robe	3	1	2	8	1	2	6	1	3	2	0	2.3
Slacks, jeans	8	2	4.7	8	2	4.6	8	7	7.6	14	2	7.3
Shirts, blouses	35	5	17	29	4	14.2	33	12	20	35	8	21.7
Shorts, Bermudas	8	0	3	5	0	2.8	8	5	6.3	8	1	5.2
Sweaters (light)	10	2	6	11	2	5.1	19	5	10	15	0	7.7
Sweaters (heavy)	12	2	4.5	10	2	5	10	4	7.6	16	0	5
Sweatshirts	5	0	1.2	4	0	1.3	5	2	3.3	5	1	2.5
Underwear	36	10	18.4	36	12	19.4	34	23	28.6	40	14	24.5
Nightgowns, P.J.'s	6	2	4.1	10	2	4.6	9	4	6.6	6	3	4.8
Socks	12	0	4.3	5	0	1.5	12	5	7.6	18	1	6
Stockings	10	2	5.7	20	3	8.2	15	4	6.6	20	3	8.1
Scarves	10	2	4.3	15	0	4.1	8	2	5.3	10	1	4.5
Gloves	8	1	3.3	6	1	2.9	5	3	4	10	1	3.5
Belts	20	0	4.5	10	0	1.5	4	0	2	15	0	3.6
Hats, caps	2	0	1	7	0	1.5	3	1	2.3	2	0	4
Towels	6	1	2.6	6	0	2.8	8	2	4.3	5	2	3
Face Cloths	4	0	1.7	12	0	2.9	5	3	4	3	2	2.2
Pillows, bed	2	0	.9	2	0	1	2	2	2	4	1	1.4
Pillows, on bed	2	0	.7	2	0	.3	1	0	.3	2	0	.3
Bathing suits	2	0	1.7	3	1	1.4	3	1	2	3	1	1.8
Shoes	24	7	13	20	4	10	25	11	17.3	20	13	16.6
Boots	2	0	1	3	0	1	2	1	1.6	2	0	.8

TABLE NO. TWO (Continued)  
INVENTORY SUMMARY - WOMEN

NUMBERS SHOW QUANTITY OF LISTED ITEMS PER STUDENT

	DAVIS			LOS ANGELES			RIVERSIDE			SANTA BARBARA		
	HIGH	LOW	AVE	HIGH	LOW	AVE	HIGH	LOW	AVE	HIGH	LOW	AVE
Purses (large)	5	0	1.8	5	1	3	5	1	3.6	5	2	3
Purses (small)	8	0	3.3	4	2	3	7	2	3.6	7	2	4
Radio	2	0	.9	2	0	.7	2	1	1.2	2	1	1.2
Phonograph	1	0	.3	1	0	.4	1	1	1	1	0	.7
Records (ht.of stack)	15"	5"	8"	30"	3"	11"	24"	6"	12"	30"	1"	9.5"
Tape recorder	0	0	0	1	0	.1	0	0	0	0	0	0
Tapes	0	0	0	1	0	0	0	0	0	0	0	0
T.V.	0	0	0	0	0	0	0	0	0	0	0	0
Books-length along shelf	8'	1'	3'6"	8'	1'	3'6"	12'	5'	8'6"	12'	3'	6'4"
Typewriter	1	0	1	1	0	.7	1	1	1	1	0	.9
Iron	1	0	.8	1	0	.9	1	1	1	1	0	.9
Hairdryer	1	0	.8	1	0	.8	1	1	1	1	1	1
Bicycle	1	0	.7	0	0	0	0	0	0	2	0	1
Scooter or motorcycle	0	0	0	0	0	0	1	0	.3	0	0	0
Car	1	0	.4	1	0	.2	1	0	.3	1	0	.1

Sample Size 13 19 3 12

Men  
Women

## 6. GRAPHIC ILLUSTRATION OF STORAGE REQUIREMENTS

The range of volumes required to accommodate the low, the high and the average quantities of student possessions are hereinafter illustrated. The solid lines delineate the volumes and areas specifically appropriate to the basic items. The dotted lines delineate the space allocated to the optional items.

As coats and dresses require long hanging space, while socks and underwear are stored in containers such as drawers, the volumes drawn with dotted lines illustrate the possible variations in storing. Such volumes have been shown more than once, according to each possible mode of storing the items. Records and typewriters, for example, could be kept either on open shelves or in cupboards. Although jackets would fit into short hanging space, people tend to hang them in the longer spaces associated with outdoor wear. Jackets are therefore represented in both spaces.

Note that the "high" and the "low" volumes are totals of the high and low quantity of each item recorded. The space allocation used for each item is shown in Table No. Three. The illustrations show the estimated storage requirements according to the inventories for the men and women at the Riverside campus.

BASIS OF  
SPACE ALLOCATION

I. VOLUME STORAGE - CONTAINER

<u>ITEM</u>	<u>CUBIC FEET PER ITEM</u>
Towel	.25
Face cloth	.05
Bathing suit	.12
Purse (large)	.5
Purse (small)	.2
Underwear	1.0/15 items
Nightgown	.1
Pajamas	.2
Sweatshirt	.2
Sweater (heavy)	.3
Sweater (light)	.2
Socks	.05
Stockings	.02
Scarf	.02
Gloves	.04
Belt	.01

OPTIONAL ITEMS

Slacks	.3
Jeans	.3
Shirt	.2
Blouse	.2
Shorts	.2
Bermudas	.2

II. VOLUME STORAGE - SHORT HANGING

<u>ITEM</u>	<u>CUBIC FEET PER ITEM</u>
Suit	1.0
Skirt	.8
Jacket (light)	1.0

OPTIONAL ITEMS

Slacks, jeans	1.0
Shirt, blouse	.8
Shorts, bermudas	1.0
Jacket (heavy)	1.2

III. VOLUME STORAGE - LONG HANGING

Dress	2.0
Formal	5.0
Robe	2.0
Overcoat (light)	2.5
Overcoat (heavy)	3.0
Raincoat	2.0

OPTIONAL ITEMS

Jacket	3.0
Slacks	1.5

IV. VOLUME STORAGE - MISCELLANEOUS ITEMS

<u>ITEM</u>	CUBIC FEET PER ITEM
Hat, cap	.5
Shoes, sandals	.2
Boots	.5
Shoe equipment	.05/pair
Soiled laundry	3.0/student
Hairdryer	.5
Iron	.2
Food stuff	-
Sports equipment	-

OPTIONAL ITEMS

Typewriter	.5
Records	.1/inch
Musical instruments:	
Guitar, banjo, tuba, trombone	5.0
Trumpet, clarinet	1.0

V. AREA STORAGE - MISCELLANEOUS ITEMS

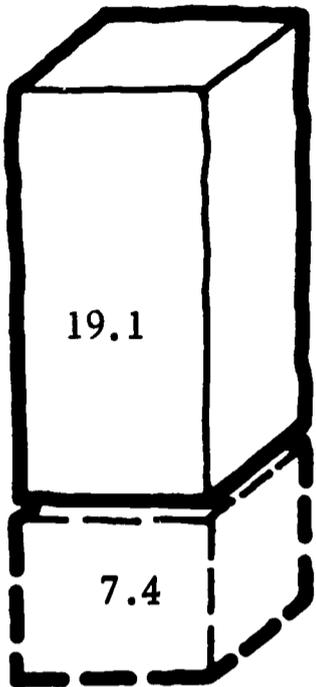
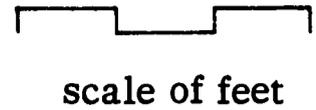
<u>ITEM</u>	SQUARE FEET PER ITEM
Phonograph	1.5
Tape recorder	1.5
TV	1.5
Radio	1.0
Clock	.2
Sewing equipment	1.0/student
Books	1.0/foot

OPTIONAL ITEMS

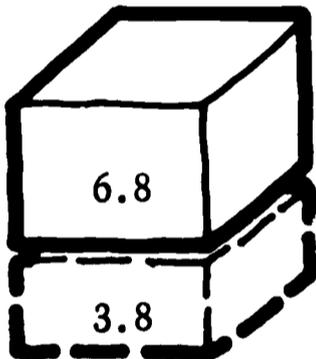
Records	.1/inch
Typewriter	1.0
Musical instruments:	
Guitar, banjo, tuba, trombone	2.0
Trumpet, clarinet	1.0

WOMEN - RIVERSIDE CAMPUS

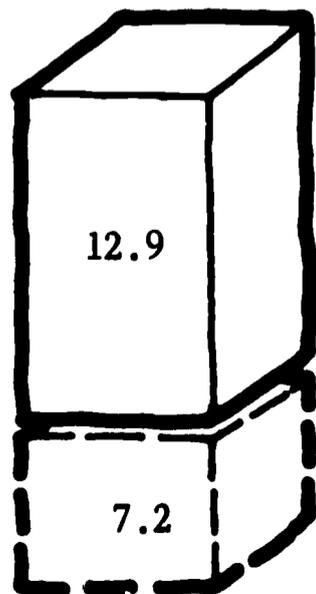
I. VOLUME STORAGE - CONTAINER



23.5 cubic feet-Maximum Volume



10.6 cubic feet-Maximum Volume



20.1 cubic feet-Average Volume

BASIC ITEMS:

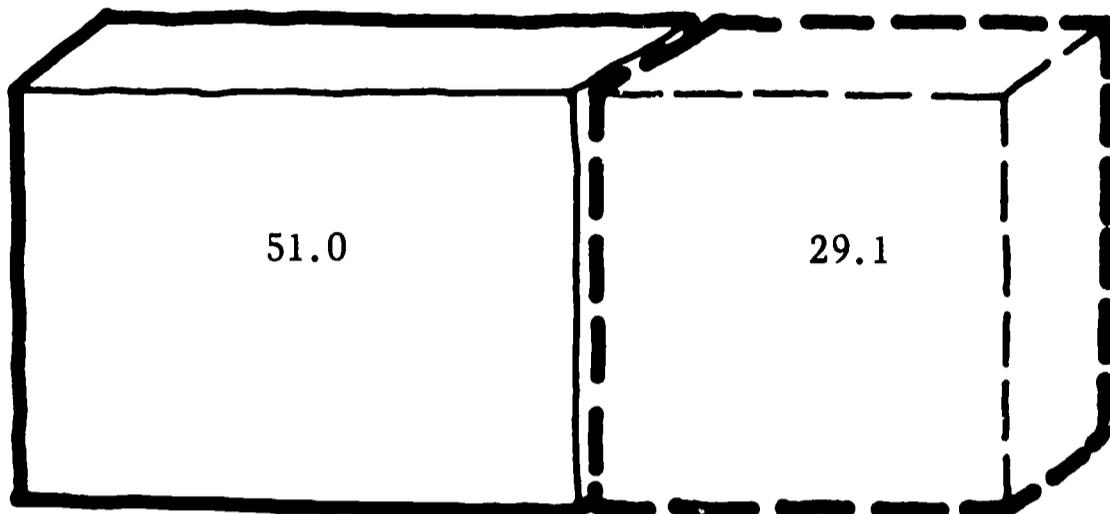
- TOWELS
- FACE CLOTHS
- BATHING SUITS
- PURSES
- UNDERWEAR
- NIGHTGOWNS
- PAJAMAS
- SWEATERS
- SWEATSHIRTS
- SOCKS
- STOCKINGS
- SCARVES
- GLOVES
- BELTS
- SLACKS
- JEANS
- SHORTS
- BERMUDAS
- SHIRTS
- BLOUSES

(Space allocated to optional items is shown dotted)

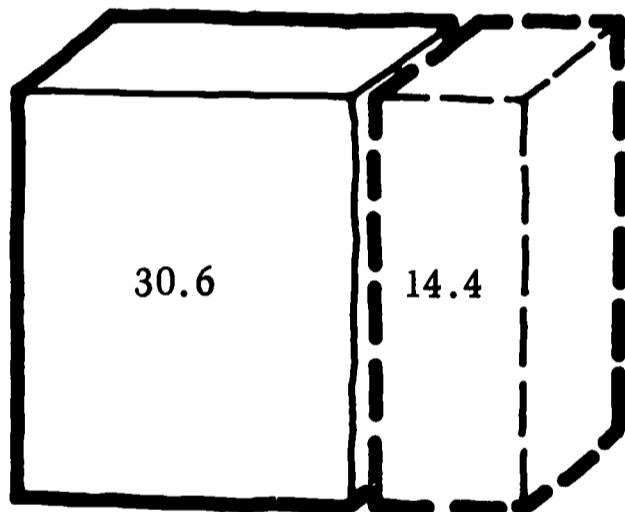
II. VOLUME STORAGE - SHORT HANGING



scale of feet



80.1 cubic feet  
Maximum Volume

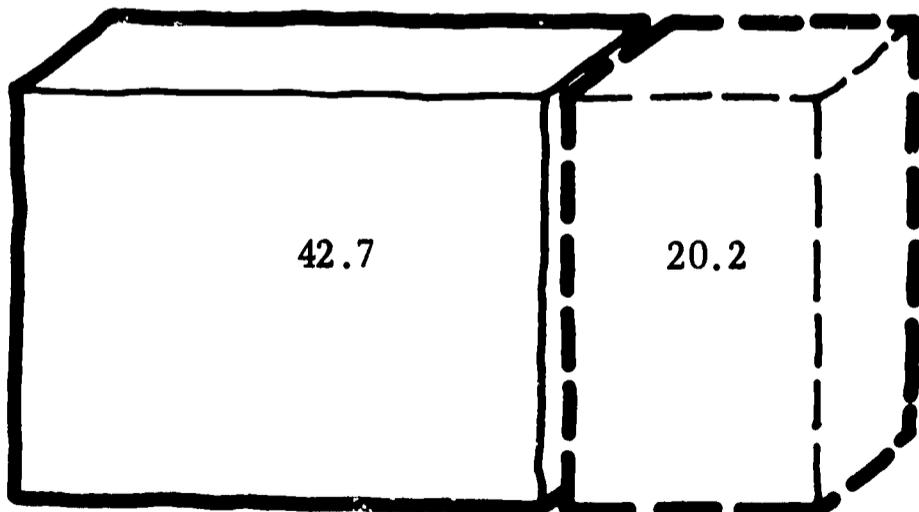


45.0 cubic feet  
Minimum Volume

ITEM:

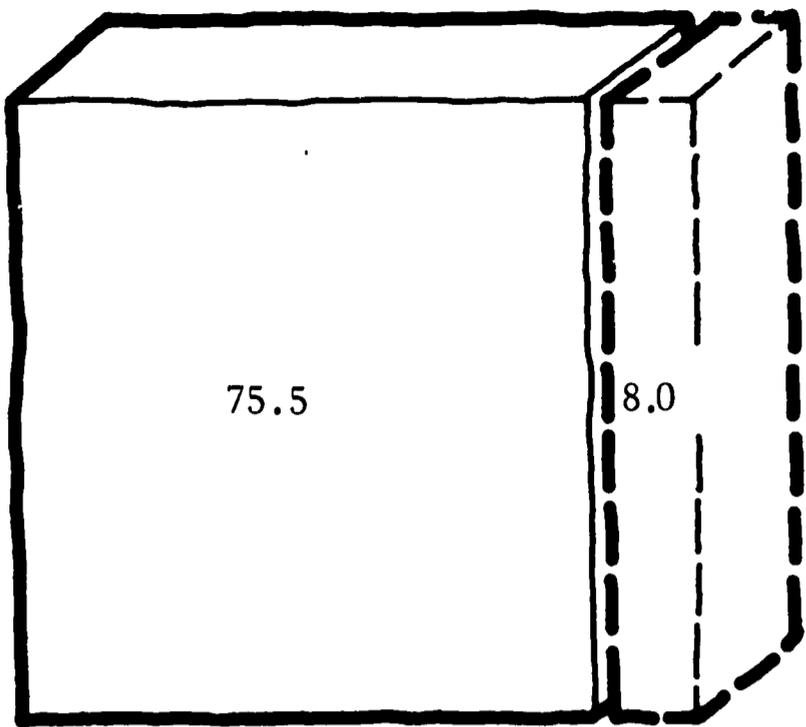
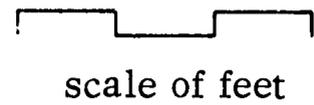
- SUITS
- SKIRTS
- JACKETS
- SLACKS
- JEANS
- BLOUSES
- SHIRTS
- SHORTS/  
BERMUDAS

(Space allocated to optional  
items is shown dotted)

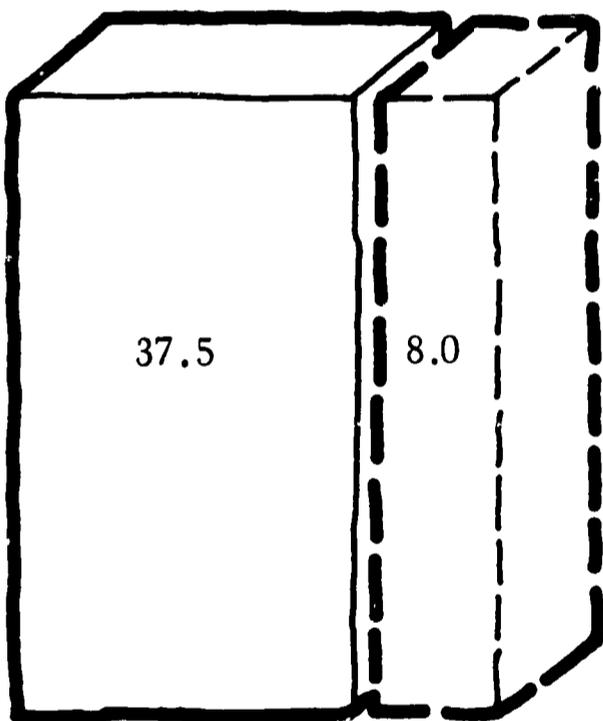


62.9 cubic feet  
Average Volume

III. VOLUME STORAGE - LONG HANGING



83.5 cubic feet  
Maximum Volume



45.5 cubic feet  
Minimum Volume

ITEM:

DRESSES

FORMALS

OVERCOATS

RAINCOATS

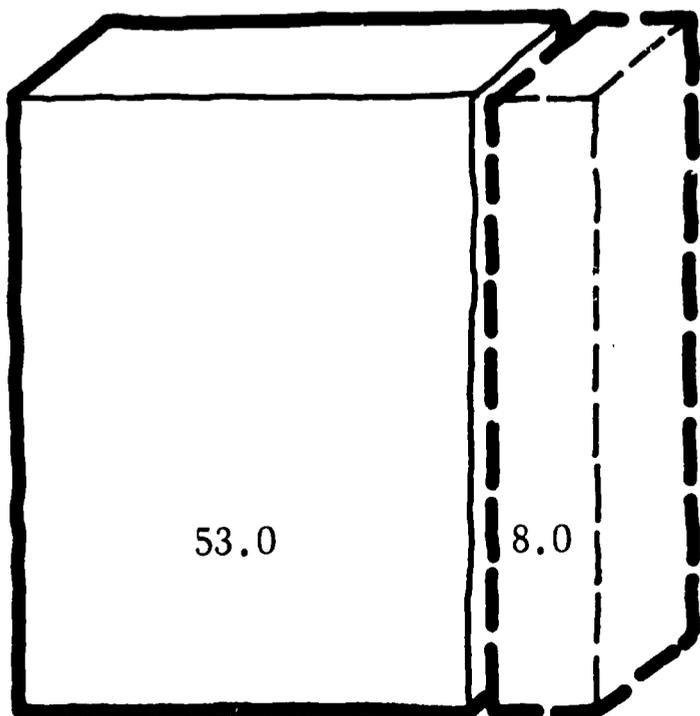
ROBES

OPTIONAL ITEMS:

JACKETS

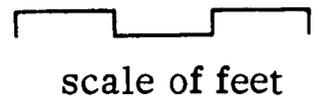
SLACKS

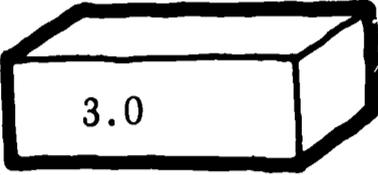
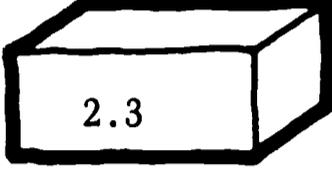
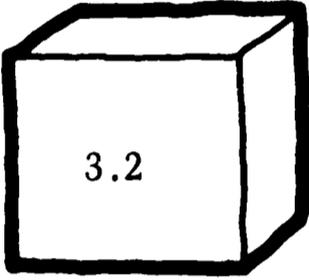
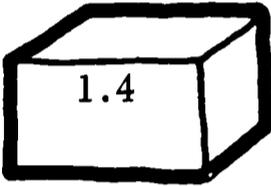
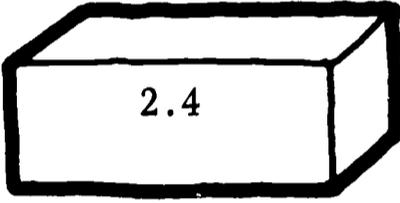
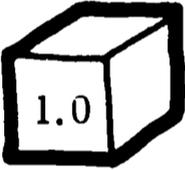
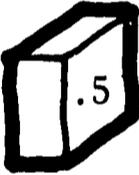
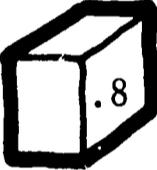
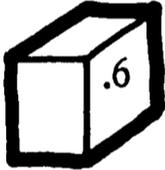
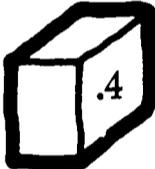
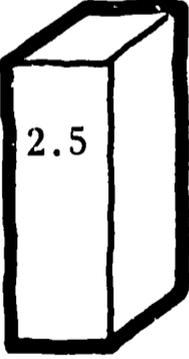
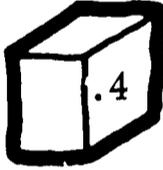
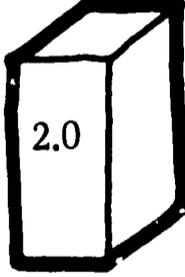
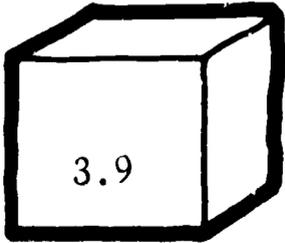
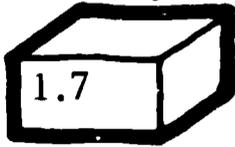
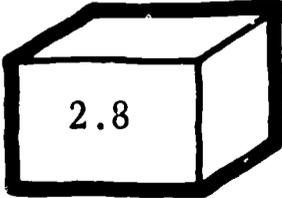
(Space allocated to optional items is shown dotted)



61.0 cubic feet  
Average Volume

IV. VOLUME STORAGE - MISCELLANEOUS ITEMS



Maximum Volume	Minimum Volume	Average Volume	(cubic feet) ITEMS:
 3.0	 1.0	 2.3	HATS/CAPS
 3.2	 1.4	 2.4	SHOES SANDALS
 1.0	 .5	 .8	BOOTS
 .6	 .3	 .4	SHOE EQUIPMENT
 2.5	 .4	 2.0	SPORTS EQUIPMENT
 3.9	 1.7	 2.8	FOOD STUFFS

IV - (CONTINUED)



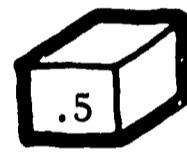
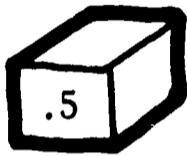
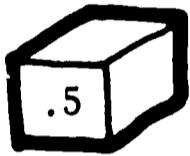
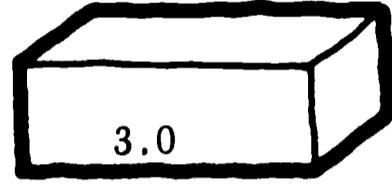
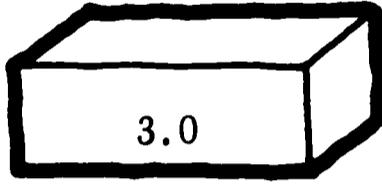
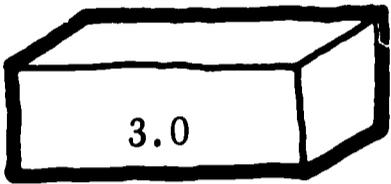
scale of feet

Average (cubic feet)  
Volume

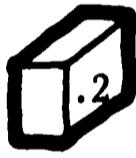
Maximum  
Volume

Minimum  
Volume

ITEMS:  
LAUNDRY

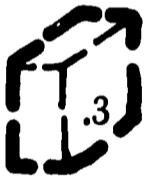


HAIRDRYER

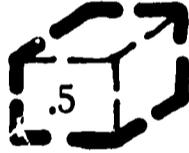


IRON

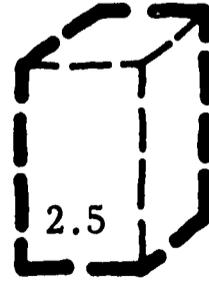
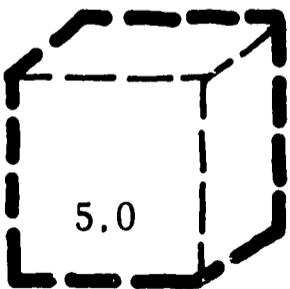
OPTIONAL ITEMS:



RECORDS



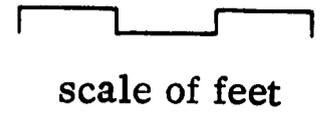
TYPEWRITER



MUSICAL  
INSTRUMENTS

(Space allocated to optional  
items is shown dotted)

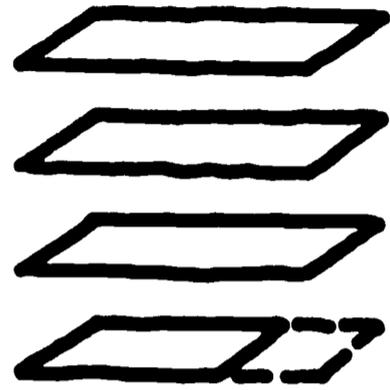
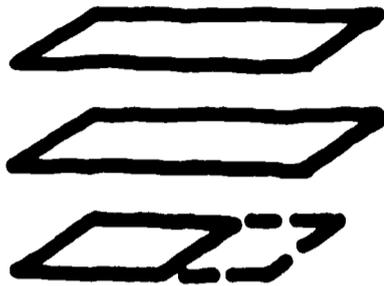
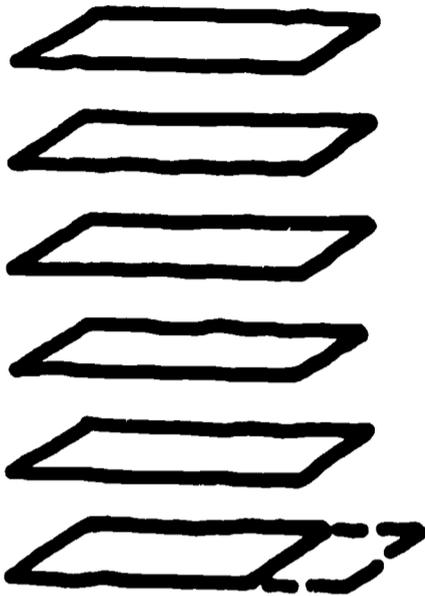
V. AREA STORAGE - MISCELLANEOUS ITEMS



Maximum Area

Minimum Area

Average Area

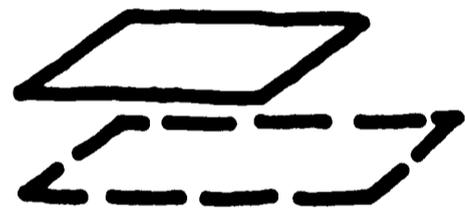
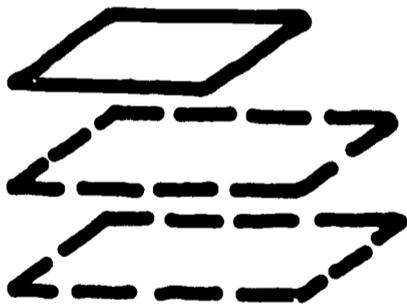


Narrow  
Surface

17.2 square feet

7.2 square feet

11.7 square feet



Wide  
Surface

8.5 square feet

3.5 square feet

6.0 square feet

ITEM:

PHONOGRAPH  
TAPE RECORDER  
TELEVISION  
SEWING EQUIPMENT

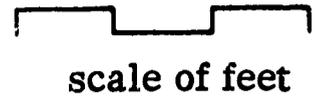
RADIO  
CLOCK  
BOOKS

OPTIONAL ITEMS:

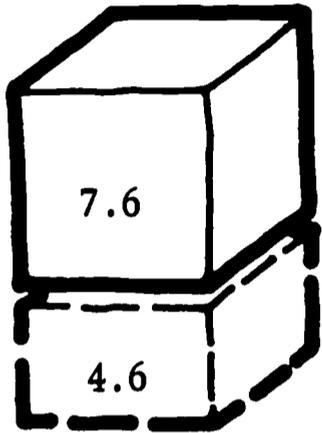
RECORDS  
TYPEWRITER  
MUSICAL INSTRUMENTS

(Space allocated to optional items is shown dotted)

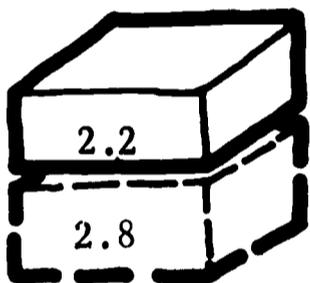
MEN - RIVERSIDE CAMPUS



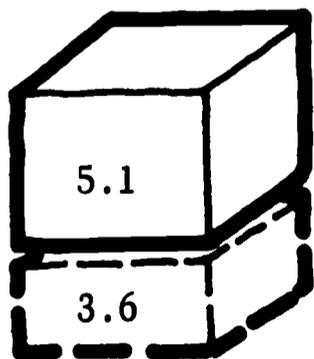
I. VOLUME STORAGE - CONTAINER



12.2 cubic feet-Maximum Volume



5.0 cubic feet-Minimum Volume



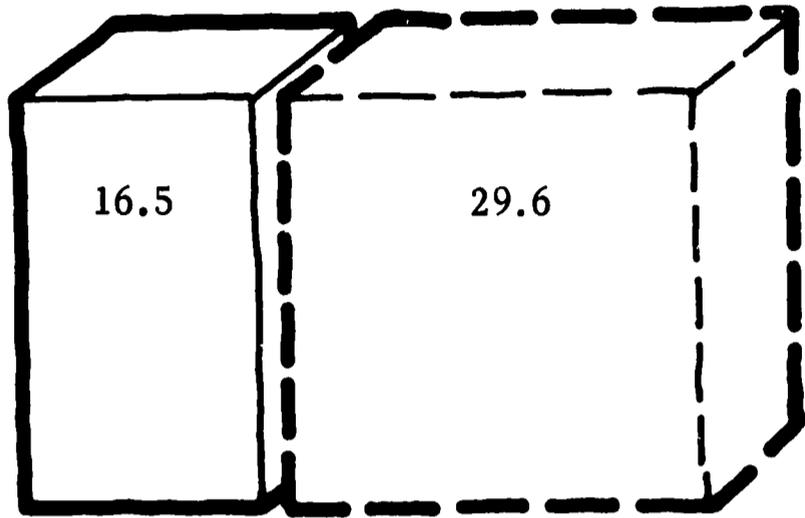
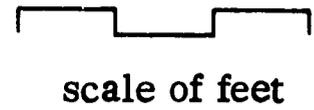
8.7 cubic feet-Average Volume

BASIC ITEMS:

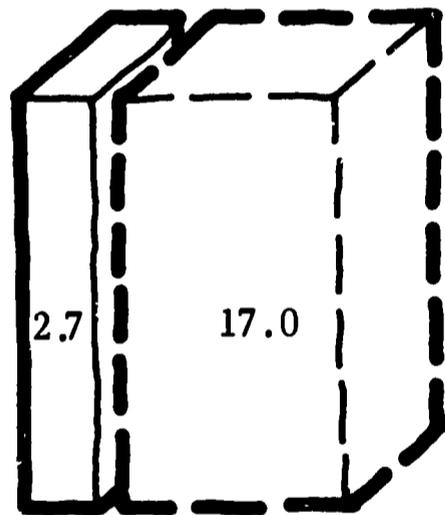
- TOWELS
- FACE CLOTHS
- BATHING SUITS
- SWEATERS
- SWEATSHIRTS
- UNDERWEAR
- PAJAMAS
- SOCKS
- GLOVES
- BELTS
- HATS
- PANTS
- SHIRTS
- BERMUDAS
- JEWELRY

(Space allocated to optional items is shown dotted)

II. VOLUME STORAGE - SHORT HANGING



46.1 cubic feet  
Maximum Volume

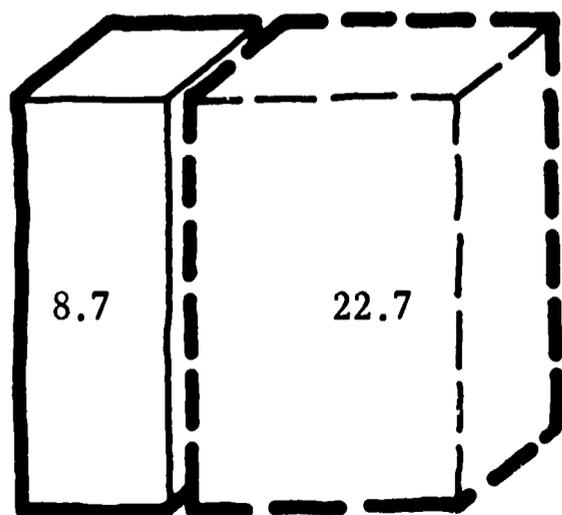


19.7 cubic feet  
Minimum Volume

ITEM:

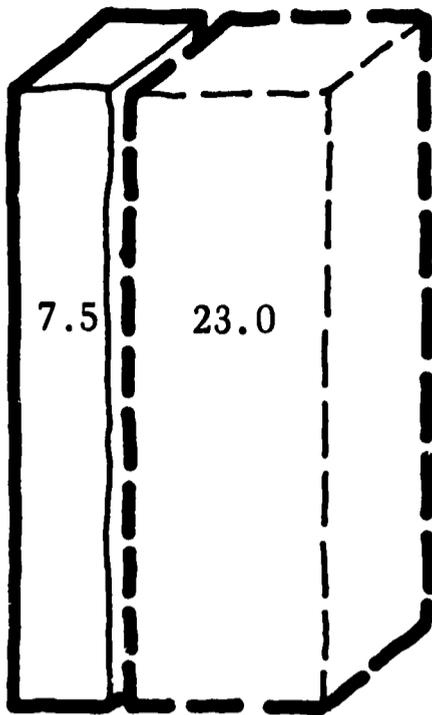
- SUITS
- SPORT COATS
- JACKETS
- SLACKS
- PANTS
- SHIRTS
- BERMUDAS
- TIES

(Space allocated to optional items is shown dotted)

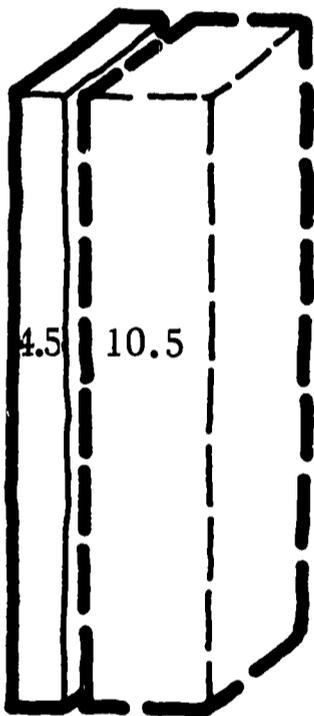


31.4 cubic feet  
Average Volume

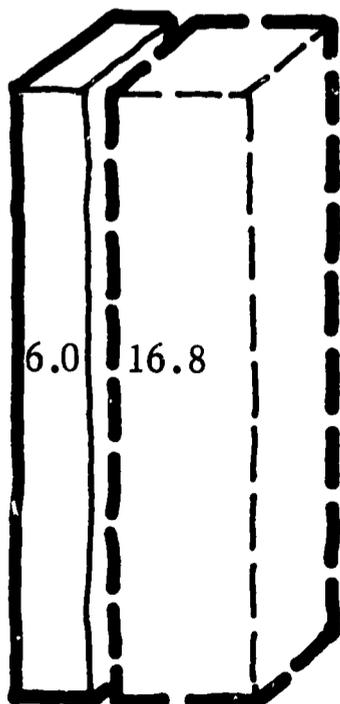
III. VOLUME STORAGE - LONG HANGING



30.5 cubic feet -Maximum Volume



15.0 cubic feet -Minimum Volume



22.8 cubic feet -Average Volume

ITEM:

OVERCOAT

RAINCOAT

ROBE

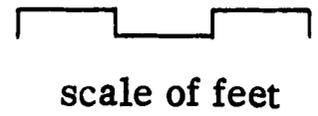
OPTIONAL ITEMS:

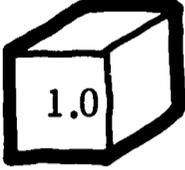
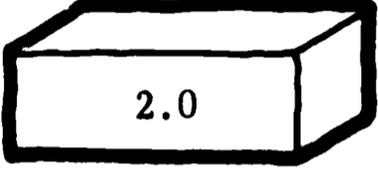
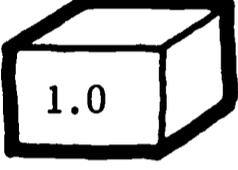
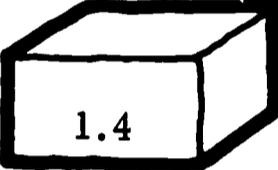
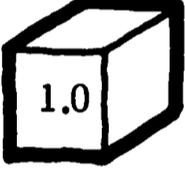
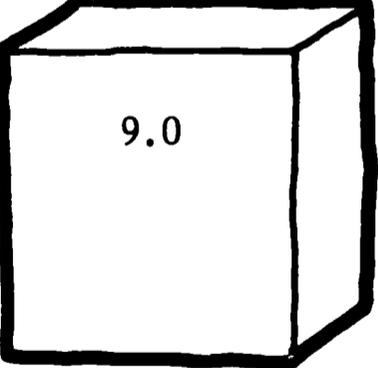
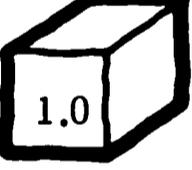
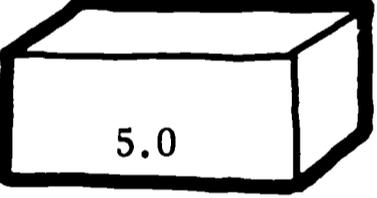
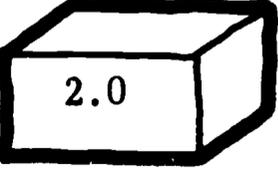
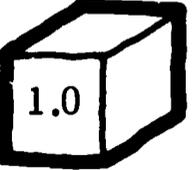
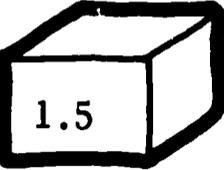
SLACKS

JACKET

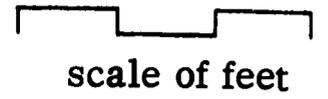
(Space allocated to optional items is shown dotted)

IV. VOLUME STORAGE - MISCELLANEOUS ITEMS



Maximum Volume	Minimum Volume	Average Volume	(cubic feet)
	-		HATS/CAPS
			SHOES SANDALS
	-		BOOTS
			SHOE EQUIPMENT
			SPORTS EQUIPMENT
			FOOD STUFFS

IV. (CONTINUED)



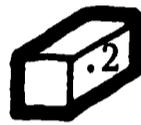
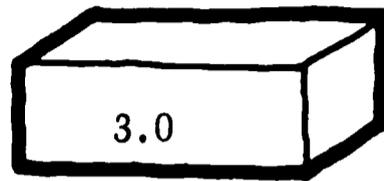
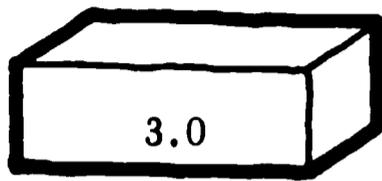
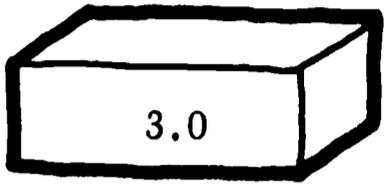
Maximum Volume

Minimum Volume

Average Volume (cubic feet)

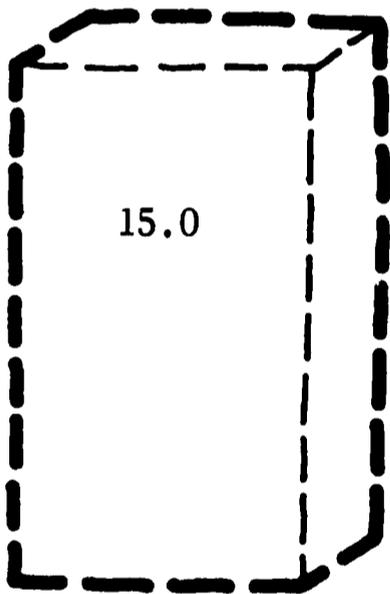
ITEMS:

LAUNDRY

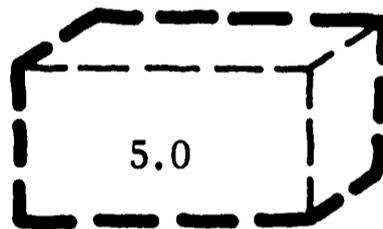


IRON

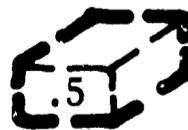
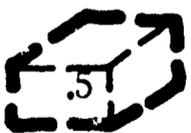
OPTIONAL ITEMS:



-



MUSICAL  
INSTRUMENTS



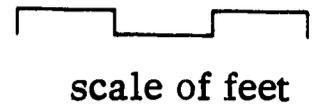
TYPEWRITER



RECORDS

(Space allocated to optional items is shown dotted)

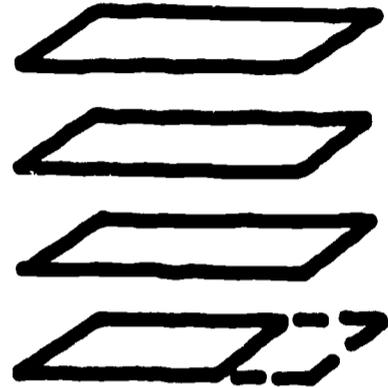
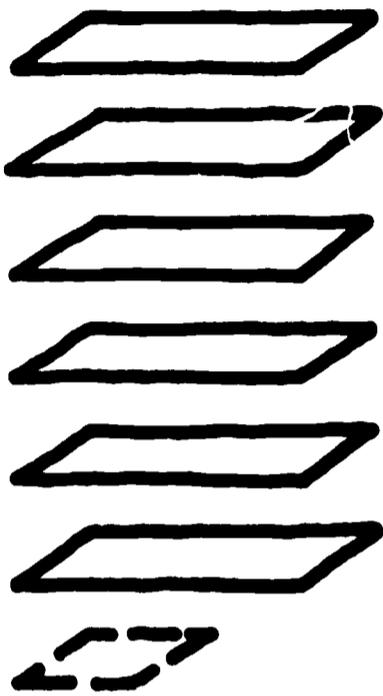
V. AREA STORAGE - MISCELLANEOUS ITEMS



Maximum Area

Minimum Area

Average Area

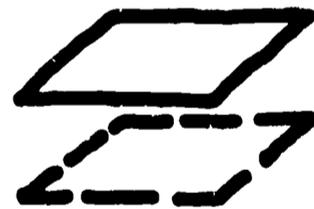


Narrow Surface

7.7 square feet

12.5 square feet

19.2 square feet



Wide Surface

10.0 square feet

2.0 square feet

6.0 square feet

ITEM:

PHONOGRAPH  
TAPE RECORDER  
TELEVISION

RADIO  
CLOCK  
BOOKS

OPTIONAL ITEMS:

RECORDS  
TYPEWRITER  
MUSICAL INSTRUMENTS

(Space allocated to optional items is shown dotted)

## 7. TABULATION OF QUESTIONNAIRE RESPONSES

This section gives the tabulation of the questionnaire based on the responses from the four University of California campuses at Davis, Los Angeles, Riverside and Santa Barbara.

1. If it would provide you with more space within your room, would you prefer to store some items elsewhere (e.g., luggage, sports equipment, long formals)?

No answer: 1  
Yes: 55  
No: 37

2. What provision for your own food preparation would you like to have?

a. In your room

Wired for hotplate: 15  
Refrigerator: 9  
Stove: 5  
Sink: 3  
Storage cabinets: 1

b. On your floor

Refrigerator: 17  
Kitchen: 17  
Stove: 15  
Hotplate: 7  
Sink: 4  
Pots and pans: 2

c. Somewhere in the dorm

Kitchen: 5  
Refrigerator: 3  
Oven: 2  
Snackbar: 1  
Ice machine: 1  
Dining hall: 1  
Coke machine: 1

No answer: 10

3. Where do you do your hand laundry?

Bathroom: 45  
Laundry room: 44  
Laundromat: 2

- Where do you do your ironing?

Laundry room: 61  
Own room: 20  
Send out: 3  
Hall: 2  
Maid's closet: 1  
Luggage room: 1  
Lounge: 1

4. Do you presently have your own:

Bedsread: 42  
Blankets: 83  
Sheets: 0  
Lamp: 50  
Chair: 12  
Wastebasket: 13  
Other furniture  
Rug: 3

5. Assuming a semi-private bath (shared by 3 to 6 students):

A. Would you prefer to store cosmetic and grooming articles:

In the bathroom in open storage: 9  
In the bathroom in drawers: 46  
In own room in open storage: 7  
In own room in drawers: 34

B. Would you prefer to put on makeup:

Standing, in own room: 23  
Standing, in bathroom: 14  
Sitting, in own room: 12  
Sitting, in bathroom: 0

If you use an electric shaver, would you prefer to shave at a mirror located:

Over sink in bathroom: 27  
On wall in bathroom: 3  
On wall in own room: 10

C. If cleaning equipment were supplied for your room and bathroom, would you prefer:

To do own cleaning: 28  
To have maid service: 65

D. Do you prefer to wash your hair in:

The sink: 15  
The shower: 77  
The bath: 2

6. Would you consider a file drawer in your desk:

Necessary: 22  
Useful: 61  
Useless: 11  
No answer: 1

7. Is there any special storage facility you would like in your room?

(Since there was a lot of overlap in responses to question #7 and #8, the items are combined under #8 below.)

No answer: 41

8. Additional comments on storage of student belongings:

No answer: 44

The following tabulation shows comments which students made in answer to this question. The first four comments occurred a sufficient number of times to be significant.

More bookshelves: 26  
More drawers: 16  
More closet space: 13  
More desk drawers: 10

Small bathrooms: 1  
More space for personal supplies: 2  
More full length mirrors: 2  
Wider bathroom lockers: 1  
Rack for toothbrush: 2  
More cosmetics space: 4

More flexibility in room: 1  
Comfortable chair for reading: 1  
Movable furniture: 1  
Larger rooms: 6

Typing space: 4  
Bookshelf near desk: 2  
Lights in desk area: 1  
Bin for projects: 1  
File drawer: 1  
Space for magazines: 1

8. (cont.)

Shallow drawers useless: 2  
Drawer dividers for small supplies: 2  
More medium sized drawers: 1  
More deep drawers: 3  
Drawers under bed: 3

More storage space: 1  
Space for bulky coats, etc.: 1  
Closet shelves for bulky items: 2  
More sweater space: 2  
Space for long formal: 1  
Footlocker: 1  
Locker for large items: 1  
Cabinets with doors and shelves: 2

More shelves: 4  
Record shelf: 7  
Space for record player and/or tape recorder: 4

Drying lines in bathroom: 2  
Drying rack: 1  
Dirty laundry storage space: 2  
Space for laundry supplies: 1  
Space for iron and ironing board: 1

Better lighting in rooms: 5  
More electric outlets: 1  
Light over mirror: 1  
Shoe rack: 5  
Towel bar: 4  
Wall hooks: 2  
Tie rack: 1

Bulletin board rather than pegboard: 3  
Bolsters: 1  
Wall phone: 1  
Better paint colors in rooms: 1

Secure storage room on floor: 6  
Accessible suitcase and box storage: 3  
Over-summer storage: 1  
Off-season clothes storage: 1  
Covered bicycle rack:

APPENDIX  
UNIVERSITY RESIDENTIAL BUILDING SYSTEM  
(URBS)

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STUDENT STORAGE STUDY -- INVENTORY AND QUESTIONNAIRE

PLEASE CHECK:

Year:            Freshman \_\_\_\_\_  
                  Sophomore \_\_\_\_\_  
                  Junior \_\_\_\_\_  
                  Senior \_\_\_\_\_  
                  Graduate \_\_\_\_\_

Sex:             M \_\_\_\_\_  
                  F \_\_\_\_\_

Major: \_\_\_\_\_

The URBS program is developing new building components which will be used in University of California residence halls. The first buildings utilizing these components will open in 1970.

As part of the background information to the URBS program, we are interested in obtaining more detailed information than is at present available on students' possessions, and storage requirements.

These inventories and questionnaires are intended to help in providing accurate up-to-date information on the specific storage needs of different students, to enable future buildings better to accommodate these needs.

Please count carefully numbers of items you have at school, and indicate both total amounts and numbers according to varying frequency of use where applicable.

For instance, school or casual clothes, underwear, textbooks for current courses, require greatest accessibility and would be considered used frequently; dress clothes, musical instruments, or laundry items might be used occasionally-- once a week or less; formal dress, ski equipment, luggage, etc. might not be used for long periods of time.

Please add items which have not been included on the list. Skip items which do not apply. Answer questions at the end of the inventory.

Thank you for your cooperation.

1. If it would provide you with more space within your room, would you prefer to store some items elsewhere (e.g., luggage, sports equipment, long formals)?

Yes \_\_\_\_\_ No \_\_\_\_\_

2. What provision for your own food preparation would you like to have?

- a. In your room \_\_\_\_\_
- b. On your floor \_\_\_\_\_
- c. Somewhere in the dorm \_\_\_\_\_

3. Where do you do your hand laundry? \_\_\_\_\_  
Where do you do your ironing? \_\_\_\_\_

4. Do you presently have your own:

- bedspread? \_\_\_\_\_
- blankets? \_\_\_\_\_
- sheets? \_\_\_\_\_
- lamp? \_\_\_\_\_
- chair? \_\_\_\_\_
- wastebasket? \_\_\_\_\_
- other furniture? \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

5. Assuming a semi-private bath (shared by 3 to 6 students):

A. Would you prefer to store cosmetic and grooming articles:

In the bathroom \_\_\_\_\_ or in your own room? \_\_\_\_\_  
In open storage \_\_\_\_\_ or in drawers? \_\_\_\_\_

B. Would you prefer to put on makeup:

In your room \_\_\_\_\_ or in the bathroom? \_\_\_\_\_  
Standing \_\_\_\_\_ or sitting? \_\_\_\_\_

If you use an electric shaver, would you prefer to shave at a mirror located:

Over sink in bath? \_\_\_\_\_  
On wall in bath? \_\_\_\_\_  
On wall in your own room? \_\_\_\_\_

C. If cleaning equipment were supplied for your room and bathroom, would you prefer:

To do your own cleaning \_\_\_\_\_ or have maid service? \_\_\_\_\_

D. Do you prefer to wash your hair in:

The sink \_\_\_\_\_ the shower \_\_\_\_\_ or the bath? \_\_\_\_\_

6. Would you consider a file drawer in your desk:

Necessary \_\_\_\_\_, useful \_\_\_\_\_, or useless? \_\_\_\_\_

7. Is there any special storage facility you would like in your room?

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8. Additional comments on storage of student belongings:

WOMEN	MEN	TOTAL	FREQUENT USE	OCCASIONAL USE	INFREQUENT USE SEASONAL
Suits (Skirt or Pant)	Suits				
Skirts	Slacks				
Dresses	Sport Coats				
Formal (long)					
Jacket (light)	Jackets				
Jacket (heavy)					
Overcoat (light)	Overcoat				
Overcoat (heavy)					
Raincoat	Raincoat				
Robe	Robe				
	Total length of hanging rod occupied by clothes				
Slacks, Jeans, etc.	Wash Pants, Jeans				
Shirts, Blouses	Shirts				
Shorts, Bermudas, etc.	Shorts				
Sweaters, light	Sweaters				
Sweaters, heavy					
Sweatshirts	Sweatshirts				
Underwear (items)	T-shirts				
	Undershorts				
Nightgowns, Pajamas	Pajamas				
Musical Instrument (kind)	Musical Instrument (kind)				
Radio	Radio				
Phonograph	Phonograph				
Records (height of stack)	Records (height of stack)				
Tape Recorder	Tape Recorder				
Tapes	Tapes				
T.V.	T.V.				
Books, Paperbacks (length along shelf)	Books, Paperbacks (length along shelf)				
Magazines	Magazines				
Typewriter	Typewriter				
Iron	Iron				
Hair Dryer					

WOMEN	MEN	TOTAL	FREQUENT USE	OCCASIONAL USE	INFREQUENT SEASONAL
Food Preparation Equipment: list	Food Preparation Equipment: list				
Food: list	Food: list				
Socks	Socks				
Stockings					
Scarves	Scarves				
Gloves	Gloves				
Belts	Belts				
Hats, Caps	Hats, Caps				
Towels	Towels				
Face Cloths	Face Cloths				
Pillows, Bed	Pillows, Bed				
Pillows, Scatter	Pillows, Scatter				
Bathing Suits	Bathing Suits				
Shoes, Sneakers, Sandals	Shoes, Sneakers, Sandals				
Boots	Boots				
Purses (large)					
Purses (small)					
Jewelry	Jewelry				
Sports Equipment (list)	Sports Equipment (list)				
Sleeping Bag	Sleeping Bag				
Tennis Racket	Tennis Racket				
Other	Other				

WOMEN	MEN	TOTAL	FREQUENT USE	OCCASIONAL	INFREQUENT SEASONAL
Other Supplies-e.g., Paints, Sewing Equipment, Buddhas, Boomerangs	Other Supplies-e.g., Paints, Sewing Equipment, Buddhas, Boomerangs				
Games-e.g., Scrabble, Cards, Go	Games				
Shoe Cleaning Equipment Laundry Supplies (no. boxes, bottles)	Shoe Cleaning Equipment Laundry Supplies (no. boxes, bottles)				
Trunk Suitcases Overnight or Vanity Case	Trunk Suitcases Overnight bag				
Bicycle Scooter or Motorcycle Car	Bicycle Scooter or Motorcycle Car				