

CROSS COUNTY LIBRARY

Space Needs Assessment based on Connecticut State Library Public Library Space Needs Standards and Recommendations

Completed April 2016





Library Space Planning Guide Worksheet

(use in conjunction with the Library Space Planning Guide)

Step 1. Establish Service Population

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|-----------------|--|--|---|------|
| a. C | urrent local population: | Use Dept of Health Estimates | 17 | ,284 |
| b. P | rojected local population at | least 10 years from now | 16 | ,000 |
| 4 4 4 5 4 5 5 5 | 化分类性 化二甲基基 医皮肤 医电影 化二氯甲基二氯甲基二氯甲基二氯甲基二二氯甲基二甲基甲基二甲基甲基二甲基甲基二甲基 | ersity of Connecticut Projections | | |
| 2.475.000 | 하고 있는 생각이 있는 것이 하는 것은 사람들이 살아 있다면 하는 것이 되었다. 그는 것이 없는 것이었다면 없어요. | nresident use in your population pro | jection. | |
| c. P | rojected nonresident popula | 5,000,000,000,000,000,000,000,000,000,0 | | |
| | Annual nonresident circu | The state of the s | type 1 if not known) | |
| | Annual circulation (All) | (type 300 if not known | | |
| | % of total circulation | Projected non-re | isidents [] | |
| d. S | Service population | | 16 | ,000 |
| Step | 2A. Collection Size | | | |
| a. P | hysical Books: | | | |
| | Existing physical book colle | | 26,600 | |
| | | mes added minus volumes withdraw | m) | |
| 1 | | years from now (negative # OK) | | |
| | Estimate of minimum | n number of books in future library | 26. | 600 |
| | Books that | will need space now or in the future | 26, | 600 |
| b. P | hysical Nonprint material | s: | | |
| | Existing physical nonprint co | ollections | 5,000 | |
| | | s added minus items withdrawn) | | |
| | | years from now (negative # OK) | | |
| | Estimate of minimum | number of non-print in future librar | y (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) | 000 |
| | Non-Print t | hat will need space now or in the fut | ure 5, | 000 |
| c. P | eriodicals: | | | |
| E | Existing number of periodical | al subscriptions | | 60 |
| 5.3 | Back periodicals titles kept i | 人名阿纳德 人名意克斯 人名英格兰克 医皮肤 医皮肤 经收款 医皮肤 医皮肤 医二氏管 | | |
| 1 | | | | |
| | | | | |
| Step | 2B. Collection Space | | | |
| a. Bo | ooks: 26 | ,600 volumes | | |
| Re | egular shelving 26 | ,600 volumes ÷ 10 = | 2,660 sq. ft. | |
| Co | ompact shelving | volumes ÷ 25 = | sq. ft. | · · |

| 5,000 | litems ÷ 10 = | 500 | sq. ft. |
|---------------------------|---|---|---|
| 60 | titles = | 60 | sq. ft. |
| 60 | titles x .5 x | | |
| e years reta | ined = | 30 | sq. ft. |
| | E | 3,250 | sq. ft. |
| Workstatio | ns | | |
| 6 | PACs x 20 = | 120 | sq. ft. |
| 15 | electronic | | |
| workstal | tions x 45 = | 675 | sq. ft. |
| 20 | electronic | | |
| ations (muti _l | ple users) x 60 = | 1,200 | sq. ft. |
| 1 | microfilm/reader | | |
| printers | x 35 = | 35 | sq. ft. |
| | | 2,030 | sq. ft. |
| | 60 e years reta Workstatio 6 15 workstatio 20 ations (muti | 60 titles = 60 titles x .5 x e years retained = Workstations 6 PACs x 20 = 15 electronic workstations x 45 = 20 electronic ations (mutiple users) x 60 = | 60 titles = 60 60 titles x .5 x e years retained = 30 3,250 Workstations 6 PACs x 20 = 120 15 electronic workstations x 45 = 675 20 electronic ations (mutiple users) x 60 = 1,200 1 microfilm/reader printers x 35 = 35 |

Step 4. User Seating Space

User seating does not include the seats in conference rooms, meeting rooms, and staff work areas, unless the meeting rooms will be used for everyday library activities, such as quiet study or homework center. If a meeting room is available for everyday library activities, excluding meetings, a minimum of fifty percent of the hours that the library is open, ten percent of the meeting room seats could be used to meet the total seating requirement.

| | Minimum Nun | nber of Sea | ats | | | | |
|--|-----------------------|---|-----------------------------|--|--|-----------|--|
| a. Number | Projected populations | 7-10 seats/each 1,000 people | | | | | |
| of seats | Projected populations | Projected populations over 10,000 | | | 5 seats/each 1,000 people | | |
| | | | | | ilek gan se eserlek fil | | |
| Type in your service projected population (Step1d) below | Population ranges | Number of seats 10 (per 1,000 people) | of seats 8 (per 1,000 | Number of seats 7 (per 1,000 people) | Number of seats 5 (per 1,000 people) | | |
| | Less than 1,000 | | | | | 1 N. 1 | |
| | 1,001 - 9,999 | | | | | | |
| 16,000 | 10,000- | 178 - 841 | | 84.84 | 80 | 8.44.1.85 | |

Population of 2,500 or less should have at least 20 seats.

| |)nic worksta | tions seats, | | |
|---|--|---|---|-----------------|
| | | available daily for use) | | |
| Totals | | | 24 seats | |
| Add# extra | seats added | , if needed | seats | |
| o. Space for seats: 24 | number | seats x 30 = | 720 | sq. fi |
| Step 5. Staff Work Space | | | | |
| | | | | |
| a. List stationary staff work | 国际电路 医克勒氏性皮肤 电影经验 电电路电路 化二氯化 | ndicate if you will be using | roaming circulation | |
| or information/reference sta Standard Circulation and Re | | cke (5) plus workroom/offi | no engoc | Marie e greener |
| taria or oriation and the | 310101100 B0 | one (e) plac work componi | оо ориосо. | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| o. 13 station | | | 1,950 | sq. ft |
| | ig staff work | stations X 50= | | sq. ft |
| | | Total | 1,950 | sq. ft |
| tep 6. Meeting Room Sp . General meeting space ncludes 100 sq. ft. speaker | 100 | seats x 10 = | 1,300 sq. ft. | |
| 00 sq. ft. for storage for tal | | | | |
| conference room space | 8 | seats x 25 = | 200 sq. ft. | |
| | | ts in all conference rooms | | |
| (total of all the conference | | | | 法国法国 医多性蛋白红蛋白 |
| | is for commi | unity groups, gov't groups | | |
| Include conference room Seats for audience (o | | unity groups, gov't groups | 120 sq. ft. | |
| Include conference room | | | 120 sq. ft. | |
| Include conference room Seats for audience (o | | | 120 sq. ft. 240 sq. ft. | |
| Include conference room Seats for audience (o | ptional) | 12 | | |
| Include conference room Seats for audience (o Small study rooms Total of all the seats in a | ptional) 8 Il of the mee | seats x 30 = | 240 sq. ft. | |
| Include conference room Seats for audience (o Small study rooms Total of all the seats in a | ptional) 8 Il of the mee | seats x 30 = [eting rooms] seats x 10 = [| | |
| Include conference room Seats for audience (o Small study rooms Total of all the seats in a Children's programming Space for story hours and | ptional) 8 II of the mee 20 d storytelling | seats x 30 = [eting rooms] seats x 10 = [| 240 sq. ft. 450 sq. ft. | |
| Include conference room Seats for audience (o Small study rooms Total of all the seats in a Children's programming Space for story hours and | ptional) 8 Il of the mee 20 d storytelling am leader 20 | seats x 30 = [eting rooms] seats x 10 = [| 240 sq. ft. 450 sq. ft. | |
| Include conference room Seats for audience (o . Small study rooms Total of all the seats in a Children's programming Space for story hours and | ptional) 8 Il of the mee 20 d storytelling am leader 20 | seats x 30 = [eting rooms] seats x 10 = [| 240 sq. ft. 450 sq. ft. | |
| Include conference room Seats for audience (o Small study rooms Total of all the seats in a Children's programming Space for story hours and cludes 50 sq. ft. for progra torage for chairs and tables | ptional) 8 Il of the mee 20 d storytelling am leader 20 | seats x 30 = [eting rooms] seats x 10 = [| 240 sq. ft. 450 sq. ft. | |
| Include conference room Seats for audience (o Small study rooms Total of all the seats in a | 8 Il of the mee 20 d storytelling m leader 20 s. | seats x 30 = [eting rooms seats x 10 = [00 square feet for kitchen | 240 sq. ft. 450 sq. ft. and | |
| Include conference room Seats for audience (o Small study rooms Total of all the seats in a Children's programming Space for story hours and cludes 50 sq. ft. for progra torage for chairs and tables Children's programming Space for crafts projects | ptional) 8 Il of the mee 20 d storytelling am leader 20 s. 20 | seats x 30 = sting rooms seats x 10 = 00 square feet for kitchen seats x 25 = [| 240 sq. ft. 450 sq. ft. and 500 sq. ft. | |
| Include conference room Seats for audience (o Small study rooms Total of all the seats in a Children's programming Space for story hours and cludes 50 sq. ft. for progra torage for chairs and tables Children's programming Space for crafts projects Computer training lab | ptional) 8 Il of the mee 20 d storytelling am leader 20 s. 20 | seats x 30 = [pting rooms seats x 10 = [00 square feet for kitchen seats x 25 = [seats x 50 = [| 240 sq. ft. 450 sq. ft. and 500 sq. ft. 830 sq. ft. | |
| Include conference room Seats for audience (o Small study rooms Total of all the seats in a Children's programming Space for story hours and Includes 50 sq. ft. for progratorage for chairs and tables Children's programming | ptional) 8 Il of the mee 20 d storytelling am leader 20 s. 20 | seats x 30 = [pting rooms seats x 10 = [00 square feet for kitchen seats x 25 = [seats x 50 = [| 240 sq. ft. 450 sq. ft. and 500 sq. ft. 830 sq. ft. | |

Step 7. Special-Use Space

| Item | Number | Multiply | sq. ft. | Total |
|---|--------|----------|---------|-------|
| Dynamic digital signage | 2 | X | 10 | 20 |
| Bulletin board | 2 | × | 9 | 18 |
| Display case | 2 | × | 50 | 100 |
| Handouts (free-standing) | 2 | X | 20 | 40 |
| Map file | 1 | × | 35 | 35 |
| Microfilm cabinets | 1 | × | 10 | 10 |
| Newspaper rack | 1 | X | 25 | 25 |
| Paperback rack | 2 | X | 35 | 70 |
| Photocopier | 2 | × | 50 | 100 |
| Staff lockers | 10 | × | 4 | 40 |
| Staff lounge/break rm. # of seats ADD OTHER | 8 | × | 25 | 250 |
| SUB-TOTAL (1) | | | | 708 |

Other Special-Use Spaces

These spaces are more difficult to calculate. You may be able to use calculations used previously to help make an estimate for necessary square feet. Examples:

- * Book collection space # of books divided by 10
- * Seats require an average of 30 sq. ft. each
- * A table and 4 chairs requires 120 sq. ft.
- * Electronic workstations 45 sq. ft.

| Popular Materials Display Areas | Sq. Ft. Required: | 100 |
|--|-------------------|-----|
| 2. Café | Sq. Ft. Required: | 150 |
| 3. Maker-space / Digital Lab | Sq. Ft. Required: | 150 |
| 4. Gallery (for art displays, etc.) | Sq. Ft. Required: | 500 |
| 5. Creation studio for audio/video production | Sq. Ft. Required: | |
| 6. Local History and Genealogy Room | Sq. Ft. Required: | 250 |
| 7. Literacy Volunteers Room | Sq. Ft. Required: | |
| 8. Job or Homework Center | Sq. Ft. Required: | 250 |
| 9. Area for the Friends of the Library | Sq. Ft. Required: | 250 |
| 10. Community Information Center | Sq. Ft. Required: | |
| 11. Collection Sorting Space for RFID | Sq. Ft. Required: | |
| 12. Centralized Communications Center (data and network) | Sq. Ft. Required: | 100 |

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|--|--|
| 13. Outdoor space (designed for specific uses) | No Sq. Ft. Required! |
| 14. Other special-use spaces | Sq. Ft. Required: |
| | Total 2458 |
| Step 8. Flexible-Use Space | |
| Think about whether you have identified spaces above to space. If you have designed space with the necessary loand mobile furniture to accommodate more than one librate to reduce the sq. ft. calculations you have made above loantified library spaces. | layout, infrastructure, technology, rary activity then you may be able |
| Step 9. Non-Assignable Space | |
| | |
| a. Collection space (from Collection Space 2B.e.) | 3,250 |
| a. Collection space (from Collection Space 2B.e.) Public electronic workstations (from 3d.) | 3,250 2,030 |
| Collection space (from Collection Space 2B.e.) Public electronic workstations (from 3d.) User seating space (from 4b.) | |

c. Divide (SUBTOTAL) by 4

Step 9. Putting It All Together

Meeting room space (from 6d.)

Special-use space (from 7.)

| a. Collection | | |
|-----------------------------------|--|--|
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

- b. Public electronic workstations (from 3d.)
- c. User seating space (from 4b.)
- d. Staff work space (from 5d)
- e. Meeting room space (from 6d.)
- f. Special-use space (from 7.)
- g. Non-assignable space (from 8c)
- h. GROSS AREA NEEDED (a+b+c+d+e+f+g) in Sq. Ft.

| 3,250 |
|--------|
| 2,030 |
| 720 |
| 1,950 |
| 3,640 |
| 2,458 |
| 3,512 |
| 17,560 |

3,640

2,458

14,048

3,512

Some Helpful Benchmarks

Square Feet Per Service Population

- 1.6 Square feet per capita Library Serving Projected Population under 10,000
- 1.5 Square feet per capita Library Serving Projected Population 10,000 to 20,000
- 1.35 Square feet per capita Library Serving Projected Population 20,000 to 50,000
- 1.15 Square feet per capita Library Serving Projected Population over 50,000

Your Service Population is 16,000

Your Project is 1.10 per square feet

Book Volumes Per Square Feet

5 book volumes per square feet maximum

Your Project is 1.51 books per square feet

Division of Library Development, Connecticut State Library, 2014

Formula Explanations

Formula for projecting nonresident population to be served:

- 1. Divide nonresident circulation transactions by the total circulation transactions (this percentage equals the ratio of nonresident population to local population)
- 2. Multiply that percentage by the projected local population figure.

Traditional Guideline for Minimum Book Volumes Per Service Populations

(provided here for reference only)

Population 1,000 2,500 5,000 10,000 15,000 25,000 50,000 75,000 100,000 Books 8,000 14,375 24,250 41,000 54,000 82,500 135,000 180,000 260,000

Formula for Books - To estimate the square feet of space needed to house the library book collections with aisles, divide the total projected collection by 10. For compact book storage divide by 25.

Formula for Non-print Materials (DVDs, Audio Books, various formats, Music CDs, playaways, etc.) - To estimate the square feet of space needed to house these library collections, divide the total projected collection by 10.

Formula for Periodicals - To determine the square feet of space needed to house periodicals,

use the following formulas:

Current issues of periodicals housed on display-type shelving will require one sq. foot per issue. For Back issues of hard copy periodicals, multiply by the number of titles of back periodicals by 0.5, and then multiply that product by the average number of years to be retained.

| Example: | sq. ft. |
|---------------------------------|---------|
| 30,000 volumes ÷ 10 | 3,000 |
| 2,000 non-print items ÷ 10 | 200 |
| 50 current periodicals = | 50 |
| 10 hard copy back periodicals x | |
| 0.5 x 5 years | 25 |
| TOTAL COLLECTION SPACE | 3,275 |

Formula for Workstations, etc.

Formula for stand-up PACs-To estimate the square feet of space needed for PAC workstations, multiply the number of PAC workstations by 30.

Formula for electronic workstations- To estimate the square feet of space needed, multiply the number of electronic workstations by 45 for single user and 60 for multiple users on one computer.

Formula for microfiche or microfilm reader/printer-To estimate the square feet of space needed, multiply the number of microfiche and microfilm reader/printer workstations by 35.

| Example: | sq. ft. |
|--|---------|
| 4 PACs x 20 | 80 |
| 6 electronic workstations x 45 | 270 |
| 5 electronic workstations multiple users | 300 |
| 1 microfilm reader/printer x 35 | 35 |
| TOTAL PUBLIC WORKSTATIONS | 685 |

Formula for Seating

To estimate the square feet of space needed to provide adequate user seating, do the following:

- 1. Subtract the number of public electronic workstations that have permanent computer station seats from the projected number of seats (Public electronic workstation seats square feet included in Step 3.)
- 2. Subtract the number of meeting room seats, if applicable
- 3. Add additional seats, if needed, especially if you are anticipating high use of personal electronic devices
- 4. Multiply the remaining number of seats by 30.

Example:

75 projected seats - 15 public electronic workstation seats = 60 projected seats 60 user seats x 30 = 1,800 sq. ft.

Formula for Work Areas

To estimate the square feet of space needed for staff work areas, multiply the number of work areas by 150.

Example:

of work areas = 10 (10 x 150) = 1500 sq. ft.)

(Four work areas at circulation/information [1 at check in/registration, 1 at check-out, 1 at book sorting, 1 at information] 2 in librarian's office [office and meeting table], 1 in children's area, 3 in technical services)

Additional temporary staff or volunteers should be considered in estimating staff work space.

Formula for Meeting Room Space

For seating in a program setting, multiply 10 square feet by the number of seats plus another 100 square feet for a speaker's podium/presentation area at the front of the room. Kitchen and storage for chairs and tables will require an additional 200 square feet.

For seating at a conference table, multiply 25 square feet by the number of seats and 10 square feet per seat for any additional seating for an audience.

For seating for small study rooms, multiply 30 square feet per seat.

For seating in a children's program area, allow 10 square feet per seat plus another 50 square feet at the front of the room for the program leader. Kitchen and storage for chairs and tables will require an additional 200 square feet.

Seating in an information commons can also be used as a computer training lab. Allow 50 square feet per station, plus another 80 square feet at the front of the room for the trainer per station. (an allowance of 50 square feet reserves the option of seating two per station).

Example:

| a. General meeting room: 100 seats | Sq. Ft. |
|---|---------|
| x 10 = 1000 + 300 sq. ft. for a speaker | |
| and storage = | 1300 |
| b. Conference room: 25 seats x 25 = | 625 |
| 10 Seats for audience 5 x 10= | 50 |
| c. Small study rooms (3 rooms | |
| with 2 seats) = 6 seats x 30= | 180 |
| d. Children's program area (story hour) | |
| 15 seats x 10 + 50 sq. ft. (program leader) | |
| + 200 sq. ft. (storage) = | 400 |
| e. Children's program area (craft area): | |
| 13 seats x 25 = 325 + 50 sq. ft. | |
| (program leader)= | 375 |
| TOTAL MEETING ROOM SPACE | 2,930 |
| | |

Special-use spaces will vary depending on the library's needs. To help determine square footage you can sometimes use formulas for collection space and user seating space. Special-use space additional needs

Example:

| Local history room | | | Sq Ft. |
|--------------------------|---|-----|--------|
| 1000 Books | ÷ | 10 | 100 |
| 2 vertical files | X | 10 | 20 |
| 1 table with four chairs | X | 120 | 120 |