

continue to be appropriate throughout the projection period, and (b) there will be no further change in the ratio of nonprofessional to professional research workers beyond the rise from 1.5:1 to 2:1 which is assumed to occur beginning in 1968.

However, the growth of medical research, particularly in the past 10 to 15 years, has been characterized by increasing complexity, dynamic change, and rapid advances in scientific technology; new requirements for complex utilities and laboratory design; new research equipment, instrumentation and other highly specialized research resources; and increasing demands for training and utilization of technical specialists and other nonprofessional supporting staff. Predictable acceleration of change in the years ahead may necessitate additional increases in both the amount of space needed per research worker, and the ratios of nonprofessional to professional staff.

(b) Estimated capital needs on a per year basis. See item D-1.

(c) Distribution of estimated needs by size of town or city:

Based on an assessment of the current distribution of health research facilities projects, and taking into account accelerating trends toward increased urbanization, it is estimated that in excess of 90 percent of the total estimated facility needs projected above will accrue to cities with populations of 50,000 or more. Cities and towns with populations of 2,500 to 50,000 will probably account for an additional 8 percent, with the remainder—2 percent—accruing to agricultural-rural areas and cities and towns with populations under 2,500. (For the purposes of this analysis, students enrolled at institutions of higher education are counted in the population of the cities where the educational institution is located.)

(d) The distribution of estimated capital expenditures (of the \$4.8 billion total) among public and private organizations is assumed, in general, to follow current allocations of funds for facilities in the public (non-Federal) and nonprofit sectors.

	Percent
1. State governments or State agencies.....	40
2. Cities, counties, and local public authorities.....	
3. Private, nonprofit organizations.....	50
4. & 5. Other.....	10

¹ See discussion under D-1.