

**TRANSACTIONS OF SOCIETY OF ACTUARIES  
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**REPORT OF THE LONG-TERM-CARE  
EXPERIENCE COMMITTEE**

**1985 NATIONAL NURSING HOME SURVEY  
UTILIZATION DATA**

**I. INTRODUCTION**

This report presents results of tabulations from the 1985 National Nursing Home Survey (NNHS). The tabulations are designed to estimate nursing home admission rates, average lengths-of-stay, and continuance tables, which together are referred to as utilization data. The purpose of this report is to establish a complete "baseline" set of utilization data that can be used in actuarial models and as a basis of comparison with other experience.

This is not an attempt to develop utilization data that are directly appropriate for the pricing or reserving of long-term-care (LTC) insurance products, although the data could be used as a basis from which such rates can be derived. In particular, the rates apply to the general population, not an insured population. Also, the general population experience relates to a largely uninsured environment under which nursing home residents had to pay for their own care or impoverish themselves before Medicaid would pay. Further, the rates do not reflect the effect of policy provisions that limit benefits to nursing home residents who meet certain criteria, such as the failure of activities of daily living (ADLs), medical necessity, or a prior hospital stay. Finally, these rates are for 1985 and reflect the conditions at that time. Through time, changes in the nursing home bed supply, the general level of health of succeeding cohorts of the population, and the availability of spouses and nonworking children as caregivers will influence future utilization rates.

Nevertheless, three sets of tabulations of admission rates and length-of-stay distributions have been made in a manner that is useful for those who are interested in LTC insurance. The first two sets include all patients in the survey. The first set is based on the "stay" concept, and the second set is based on the "benefit period" concept. Under the stay concept, each admission and discharge is treated independently, while under the benefit period concept, stays that are interrupted only because the patient transferred from one nursing home to another or from one nursing home to a hospital and then to another nursing home are treated as one benefit period. The

benefit period concept is more appropriate for measuring the effects of deductible periods and lifetime maximums.

These first two sets of tabulations are representative of the general U.S. population and thus include persons with types of conditions that would preclude being issued insurance and persons with a diagnosis that would not be covered under LTC insurance policies. The third set of rates was compiled excluding these patients. In particular, this set excludes the experience of patients whose only condition is mental (although Alzheimer's Disease and other organic brain syndrome are included), is congenital, or involves substance abuse. The mentally retarded, who represent a significant proportion of patients under age 65, are excluded.

Each set of utilization data has been calculated independently. Thus, each set of admission rates, average lengths-of-stay, and continuance tables has been calculated from the basic data to be consistent within each set. Other subsets are also possible, such as including only those admissions that follow a three-day hospital stay or only those where the patient fails three ADLs, and so on, but these subsets are not included in this report.

## II. THE 1985 NATIONAL NURSING HOME SURVEY

The 1985 National Nursing Home Survey was a nationwide (excluding Alaska and Hawaii) sample survey conducted by the National Center for Health Statistics (NCHS) between August 1985 and January 1986, with an average date of interview of October 11, 1985. It is the third and most recent in a series of periodic surveys of nursing and related care homes and their residents, discharges, and staffs. The first survey was conducted in 1973-74, and the second was conducted in 1977. The 1985 survey contains many more questions than the prior surveys, so that the analysis done here is not possible with the earlier surveys.

Data from the 1985 resident survey and the 1985 discharge survey were used in this report. The surveys cover all types of nursing homes without regard to the level of care they provide, whether they participate in the Medicare or Medicaid program, or whether they are licensed. It does not include homes for the aged, community care facilities, congregate living facilities, adult foster homes, or other residential facilities without nursing care.

The survey was based on a stratified two-stage probability sample. In the first stage, a stratified random sample of facilities was selected from four components: (1) the base, a national inventory maintained by the National

Center for Health Facilities, called the 1982 National Master Facility Inventory (NMFI); (2) the 1982 Complement Survey, which identified homes missed in the NMFI; (3) hospital-based homes identified by the Health Care Financing Administration (HCFA); and (4) homes opened for business between 1982 and June 1, 1984. This frame resulted in an universe of 20,479 nursing and related care facilities. The strata in the selection process were certified versus not certified and number of beds, with large certified homes being the most likely to be selected. This selection process resulted in 1,079 facilities being surveyed.

In the second stage, random samples of residents and discharges were selected from each of the chosen facilities. This process resulted in 5,243 current residents and 6,023 discharged residents from the 1,079 facilities included in the survey. Each of the responses was given a weight that reflected the probability with which the facility was chosen and the proportion of residents chosen from each facility, so that the total weighted responses represented the 48 contiguous states and the District of Columbia.

Information was obtained from each chosen facility through a Facility Questionnaire, from (or about) the chosen residents through a Current Resident Questionnaire, and from the sample of patients discharged through a Discharged Resident Questionnaire. Each questionnaire included questions seeking detailed information on the characteristics of the residents and the facilities. These surveys are referred to as simply the facility survey, the resident survey, and the discharge survey.

The Current Resident Questionnaire included questions on:

- Basic demographic information, such as current age, sex, race, marital status.
- Information on the date of admission and residence before the most recent admission to the nursing home. Up to eight prior stays in the patient's current facility and up to three stays in up to three different facilities are recorded. Thus, information is contained on a possible 18 stays in all.
- Current condition of the patient, including a primary and up to seven secondary diagnoses.
- Information on the primary and up to seven secondary diagnoses at the time of admission.
- Information on the patient's ability to perform Activities of Daily Living (ADLs).

- Information on therapies currently being received and sources of funds for payment.

The Discharged Resident Questionnaire contains much of the same information as the Current Resident Questionnaire, plus the date of discharge and residence after leaving the facility. The discharge survey, however, does not have detailed information on the patient's ability to perform ADLs. It only asks whether the patient was bedfast, chairfast, or continent at the time of discharge.

### III. METHODOLOGY AND RESULTS

The nursing home admission rates developed in this report are by sex and single years of age, from age 30 through age 110. The length-of-stay distributions were developed by sex for seven age groups. The lengths-of-stay were grouped into intervals of varying length for up to 15 years.

#### *A. Admission Rates*

The admission rates (or incidence rates) are calculated relative to the noninstitutionalized population (that is, as a percentage of those exposed to the risk of institutionalization) and not relative to the total population (that is, including the institutionalized). A rigorous actuarial model should use rates relative to the exposed population. Occasionally models are constructed that use admission rates calculated relative to the total population, on the theory that such rates can be applied in a manner consistent with their derivation by applying them to the total number of policies in-force, including those already in a nursing home. But this theory assumes that the proportion institutionalized is the same for both the population from which the rates were derived and the population to which the rates are applied. Problems with this assumption can readily be seen, because an insured population always starts off at issue as 100 percent noninstitutionalized and then gradually moves to a lower percentage. These observations are especially applicable at advanced ages where very high proportions of the population are confined.

The admission rates based on total admissions could, theoretically, have been based on the total population, because new admissions could come from those already institutionalized, if they are first discharged before the end of the observation period. This was not done, however, because the emphasis of this report is on nontransfer admissions.

To calculate admission rates, the number of admissions during the one-year period prior to the date of the interview (in both the resident survey and the discharge survey) is divided by the average exposed population during that period (estimated as the mid-year noninstitutionalized population), resulting in central admission rates. Because the average date of interview was October 11, 1985, the mid-year population is April 12 (182 days earlier). The estimation of this population is discussed in Appendix A.

Three sets of rates were calculated. Each set uses the same population for the denominator, but differs in the number of admissions reflected in the numerator. The first set uses all surveyed admissions, regardless of whether the admission was preceded by a recent discharge from another nursing home (that is, a transfer); this set is labeled "All Stays, Stay Concept." The second set, labeled "All Stays, Benefit Period Concept," excludes admissions for which the patient's residence prior to admission was (1) a Personal Care Facility (PCF), an Intermediate Care Facility (ICF), or a Skilled Nursing Facility (SNF), or (2) any type of health facility and the patient's residence immediately prior to that was a nursing home. The primary application of the second type of exclusion is hospital episodes that interrupt a longer nursing home stay.

According to these criteria, 28 percent of nursing home admissions were transfers from another nursing home. A much higher percentage, 62 percent, of nursing home admissions were transfers from another health facility. Of these, 17 percent were directly from a nursing home (PCF, ICF, or SNF), 72 percent were from short-term general hospitals, and 11 percent were from another type of facility (mostly mental or government). Of those who were admitted from a short-term hospital, roughly 25 percent were in a nursing home before that; that is, these were really continuous nursing home stays.

In the first set of tabulations (under the stay concept), the gross admission rate over all ages and both sexes was 0.53 percent; 0.01 percent under age 30, 0.13 percent for ages 30–64, 2.85 percent for ages 65–84, and 18.99 percent for ages 85 and over. Under age 65 the rates were higher for males than for females, while for ages over 65 the rates were higher (by more than 20 percent) for females than for males. The average length-of-stay was 405 days, ranging from 437 days for ages 30–64 to 400 days for ages 65–84.

Of the 1.249 million admissions tabulated when all admissions were counted, 345,000 were considered transfers, leaving 904,000 admissions in the second set of tabulations, which used the benefit period concept. By excluding transfers, 27.6 percent of the admissions were eliminated from the calculation. There was no significant variation in the reduction by age. By excluding

transfers, the resulting admission rate over all ages and both sexes combined was 0.38 percent; 0.01 percent under age 30, 0.10 percent for ages 30–64, 2.08 percent for ages 65–84, and 13.27 percent for ages 85 and over. Although the average admission rate excluding transfers is 28 percent lower than the total, the average length-of-stay (whose calculation is discussed in Sections C and D) increased by 44 percent from 405 days to 583 days.

Utilization rates based on all admissions from a general population may be much different from those based on covered conditions from an insured population. Rates that are more appropriate for insurance purposes than the total rates from the general population can be obtained by using only those admissions that are for covered conditions. For this report, a third set of utilization rates was calculated, labeled “Insurable Stays, Benefit Period Concept,” which excludes those admissions and stays for diagnoses that are indicative of persons (1) who are never insured (congenital malformations, perinatal conditions, and mental retardation) or (2) whose condition is not covered (nonorganic mental disorders and substance abuse).

The insured population can vary greatly from one insurer to another, depending on the marketing strategies and underwriting rules. In addition, claims experience can vary by claims administration procedures. There is no way to adjust general population data to reflect these differences. A possible adjustment in the calculation of the rates, although quite small, would be to subtract from the population in the denominator the number of noncovered admissions that are excluded from the numerator. To the extent that these persons would be excluded from the population anyway (because they are institutionalized), however, this would be an overadjustment. For this report, no adjustment was made to the denominator.

Admissions were excluded only if the patient had no covered diagnosis. Thus, a patient’s record was included in the calculations if his or her primary diagnosis was for a mental condition but he or she had a secondary condition of hypertensive heart disease. In general, the exclusion process can be described as one in which only those who clearly would not be covered by insurance were excluded. Most insurance companies should be able to obtain a stronger effect through underwriting and claims administration.

The exclusions in this analysis resulted in a 6 percent decrease in admission rates and a 5 percent decrease in the average length-of-stay. The effect was the strongest at the youngest ages. For the age group 30–64, the decrease in the admission rates was 18 percent and the decrease in the average length-of-stay was 8 percent. For the age group 85 and over, the decrease in the

admission rates was 4 percent and in the average length-of-stay was only 1 percent.

The admission rates calculated from the survey data by single year of age were smoothed by using a Whittaker-Henderson Type B graduation formula with the corresponding population at each age as the weights. With this graduation formula, the graduated rates times the population reproduces the actual total number of admissions and the actual average age at admission. The admission rate of an age group, however, such as for ages 65-74, is not necessarily preserved. Also, the graduated rates were modified slightly at the high ages (that is, over age 100), where the graduated rate was not allowed to go more than 25 percent of the distance from the rate at the previous age to 100 percent. The graduated rates are shown in Tables 1-3.

### *B. Prevalence Rates*

Another measure of utilization often found in the literature is the prevalence rate. Whereas the incidence rate is the rate of admission over a one-year period for the exposed population, the prevalence rate is the fraction of the total population that is resident in a nursing home at a point in time. Thus, the prevalence rate differs from the incidence rate in both the numerator and the denominator. The numerator of the prevalence rate is the number of residents on a particular day. In the 1985 NNHS, this was, on average, October 11, 1985. The denominator is the total population (including the institutionalized) on that same date. For the calculation of incidence rates from the NNHS, the denominator is the noninstitutionalized population 182 days earlier (April 12, 1985).

The number of nursing home residents by age and sex, and the corresponding prevalence rates, both ungraduated and graduated, are shown in Table 4. The rates are very small under age 45, where less than 1 person per 1000 is confined in a nursing home, for both males and females. After age 65, the rates increase almost exponentially, practically doubling every 5 years between age 65 and 90. The rates for females are generally much higher than the rates for males. For every 1000 males in the population, 6 are confined at age 65, 48 at age 80, and 258 at age 95. For every 1000 females in the population, 8 are confined at age 65, 73 at age 80, and 368 at age 95. It is estimated that more than 50 percent of those over age 100 are confined in nursing homes.

Many analysts of the NNHS have related incidence rates and prevalence rates. They observe that the incidence rate times the average length-of-stay

TABLE 1  
 MALE ADMISSIONS, ADMISSION RATES, AND AVERAGE LENGTH-OF-STAY (GRADUATED)  
 FROM THE 1985 NNHS

Age	All Stays Stay Concept			All Stays Benefit Period Concept			Insurable Stays Benefit Period Concept		
	Admissions		Average Length of Stay	Admissions		Average Length of Stay	Admissions		Average Length of Stay
	Number	Rate		Number	Rate		Number	Rate	
<30 ...	11,828	.01%	417	9,968	.01%	941	6,116	.01%	825
30 ...	1,215	.06	419	977	.05	947	273	.01	830
31 ...	1,215	.06	419	946	.04	945	234	.01	828
32 ...	1,164	.06	419	864	.04	942	198	.01	825
33 ...	1,085	.05	418	751	.04	939	172	.01	822
34 ...	1,004	.05	418	639	.03	934	162	.01	818
35 ...	951	.05	417	564	.03	928	172	.01	813
36 ...	964	.05	416	562	.03	920	208	.01	807
37 ...	1,042	.06	414	632	.03	912	269	.01	800
38 ...	1,150	.06	412	752	.04	902	351	.02	793
39 ...	995	.07	410	708	.05	892	358	.02	785
40 ...	1,134	.08	408	879	.06	880	490	.03	776
41 ...	1,302	.09	405	1,091	.07	869	684	.05	767
42 ...	1,512	.10	402	1,352	.09	856	947	.06	757
43 ...	1,555	.12	399	1,460	.11	844	1,115	.08	748
44 ...	1,686	.13	396	1,633	.13	832	1,322	.10	738
45 ...	1,835	.15	393	1,800	.15	821	1,512	.12	729
46 ...	1,976	.16	389	1,933	.16	812	1,657	.14	720
47 ...	2,018	.17	386	1,935	.16	804	1,677	.14	712
48 ...	1,961	.17	384	1,811	.16	798	1,579	.14	705
49 ...	1,938	.17	381	1,693	.15	793	1,483	.13	699
50 ...	1,923	.17	379	1,565	.14	791	1,384	.13	693
51 ...	1,898	.18	378	1,433	.13	790	1,288	.12	689
52 ...	1,982	.19	377	1,402	.13	790	1,287	.12	685
53 ...	2,174	.20	376	1,477	.14	791	1,382	.13	681
54 ...	2,438	.22	376	1,638	.15	792	1,551	.14	678
55 ...	2,727	.24	376	1,852	.17	793	1,754	.16	674
56 ...	3,018	.27	377	2,092	.19	792	1,964	.18	670
57 ...	3,352	.30	378	2,371	.21	790	2,191	.20	666
58 ...	3,580	.33	379	2,569	.24	785	2,328	.22	660
59 ...	3,837	.36	380	2,773	.26	777	2,464	.23	653
60 ...	4,166	.39	382	3,008	.28	767	2,628	.24	644
61 ...	4,349	.42	383	3,117	.30	753	2,691	.26	634
62 ...	4,488	.44	385	3,176	.31	735	2,726	.27	622
63 ...	4,787	.47	386	3,330	.33	715	2,860	.28	608
64 ...	4,910	.50	386	3,351	.34	692	2,896	.30	593
65 ...	5,024	.55	386	3,364	.37	667	2,941	.32	577
66 ...	5,378	.62	385	3,543	.41	641	3,151	.36	561
67 ...	6,056	.72	382	3,953	.47	614	3,590	.43	543
68 ...	6,762	.86	379	4,412	.56	587	4,096	.52	525
69 ...	7,738	1.05	373	5,088	.69	561	4,816	.65	507



TABLE 1—Continued

Age	All Stays Stay Concept			All Stays Benefit Period Concept			Insurable Stays Benefit Period Concept		
	Admissions		Average Length of Stay	Admissions		Average Length of Stay	Admissions		Average Length of Stay
	Number	Rate		Number	Rate		Number	Rate	
70....	9,014	1.28%	367	6,011	.85%	535	5,776	.82%	489
71....	10,422	1.57	358	7,074	1.06	510	6,868	1.03	471
72....	11,864	1.90	348	8,198	1.31	486	8,010	1.28	453
73....	13,250	2.28	338	9,301	1.60	463	9,120	1.57	436
74....	14,502	2.71	326	10,309	1.92	441	10,126	1.89	419
75....	15,570	3.17	315	11,171	2.27	422	10,978	2.24	404
76....	16,370	3.67	304	11,820	2.65	405	11,611	2.60	390
77....	16,927	4.20	295	12,273	3.04	390	12,044	2.99	378
78....	17,238	4.76	287	12,537	3.46	379	12,285	3.39	369
79....	17,135	5.36	282	12,501	3.91	370	12,227	3.82	361
80....	17,019	6.00	278	12,465	4.39	365	12,164	4.29	356
81....	16,491	6.69	277	12,138	4.93	362	11,814	4.80	353
82....	16,019	7.46	278	11,862	5.53	361	11,512	5.36	352
83....	15,364	8.33	280	11,452	6.21	361	11,079	6.00	352
84....	14,777	9.31	284	11,087	6.99	363	10,688	6.73	353
85....	14,030	10.44	288	10,585	7.88	365	10,170	7.57	355
86....	13,154	11.74	292	9,966	8.90	368	9,543	8.52	356
87....	12,050	13.23	296	9,150	10.05	370	8,737	9.60	358
88....	10,888	14.93	299	8,271	11.34	371	7,880	10.81	358
89....	9,660	16.86	302	7,327	12.79	371	6,970	12.16	357
90....	8,981	19.01	303	6,791	14.38	369	6,457	13.67	355
91....	7,908	21.41	303	5,955	16.12	366	5,663	15.33	352
92....	6,947	24.07	301	5,206	18.03	361	4,957	17.17	346
93....	5,724	26.98	298	4,267	20.11	354	4,070	19.19	339
94....	4,450	30.17	294	3,299	22.37	345	3,155	21.39	331
95....	3,589	33.64	289	2,648	24.82	335	2,539	23.80	321
96....	2,863	37.38	282	2,103	27.46	323	2,022	26.41	309
97....	2,190	41.41	274	1,602	30.30	310	1,546	29.23	296
98....	1,502	45.72	266	1,096	33.34	295	1,060	32.27	281
99....	1,192	50.32	256	866	36.59	279	841	35.52	265
100....	577	55.20	246	419	40.04	261	408	38.99	249
101....	363	60.36	235	263	43.70	243	256	42.67	230
102....	224	65.81	223	162	47.56	223	158	46.57	211
103....	134	71.54	210	97	51.63	202	95	50.69	191
104....	80	77.55	196	58	55.90	180	57	55.02	169
105....	46	83.16	182	33	60.38	156	33	59.57	150
106....	25	87.37	167	19	65.06	150	19	64.34	150
107....	14	90.53	151	10	69.95	150	10	69.32	150
108....	7	92.90	150	5	75.04	150	5	74.52	150
109....	4	94.67	150	3	80.34	150	3	79.93	150
110....	2	96.00	150	2	85.25	150	2	84.95	150
30-64..	77,333	0.07	388	58,136	0.06	800	46,255	0.04	678
65-84..	252,919	2.44	313	180,557	1.74	427	174,897	1.69	404
85+....	106,603	16.44	294	80,203	12.37	359	76,657	11.82	346
Total ..	448,682	0.38%	324	328,865	0.28%	492	303,925	0.26%	440

TABLE 2

FEMALE ADMISSIONS, ADMISSION RATES, AND AVERAGE LENGTH-OF-STAY (GRADUATED)  
FROM THE 1985 NNHS

Age	All Stays Stay Concept			All Stays Benefit Period Concept			Insurable Stays Benefit Period Concept		
	Admissions		Average Length of Stay	Admissions		Average Length of Stay	Admissions		Average Length of Stay
	Number	Rate		Number	Rate		Number	Rate	
< 30 ...	4,245	.00%	438	3,912	.00%	908	1,868	.00%	1,096
30 ...	352	.02	431	357	.02	898	104	.00	1,098
31 ...	377	.02	429	359	.02	899	125	.01	1,101
32 ...	407	.02	427	350	.02	901	148	.01	1,105
33 ...	441	.02	425	334	.02	904	170	.01	1,109
34 ...	473	.02	423	313	.02	908	189	.01	1,114
35 ...	499	.03	421	295	.02	914	207	.01	1,120
36 ...	528	.03	420	295	.02	920	233	.01	1,125
37 ...	552	.03	418	312	.02	927	267	.01	1,132
38 ...	556	.03	417	340	.02	936	306	.02	1,138
39 ...	439	.03	416	296	.02	945	274	.02	1,144
40 ...	457	.03	416	336	.02	956	313	.02	1,150
41 ...	494	.03	416	379	.03	967	352	.02	1,156
42 ...	554	.04	418	423	.03	979	389	.03	1,162
43 ...	573	.04	420	418	.03	991	378	.03	1,166
44 ...	641	.05	423	440	.03	1,004	390	.03	1,170
45 ...	735	.06	427	477	.04	1,017	414	.03	1,172
46 ...	849	.07	433	530	.04	1,029	451	.04	1,172
47 ...	941	.08	439	579	.05	1,040	487	.04	1,171
48 ...	992	.09	447	616	.05	1,051	515	.04	1,167
49 ...	1,054	.09	455	676	.06	1,059	564	.05	1,162
50 ...	1,104	.10	464	743	.07	1,066	618	.05	1,153
51 ...	1,132	.10	474	804	.07	1,071	665	.06	1,143
52 ...	1,207	.11	484	901	.08	1,074	740	.07	1,129
53 ...	1,323	.12	493	1,025	.09	1,073	838	.07	1,113
54 ...	1,462	.13	503	1,157	.10	1,070	941	.08	1,094
55 ...	1,611	.14	511	1,279	.11	1,063	1,039	.09	1,073
56 ...	1,810	.15	518	1,421	.12	1,053	1,158	.10	1,049
57 ...	2,081	.18	523	1,597	.13	1,039	1,313	.11	1,024
58 ...	2,374	.20	526	1,773	.15	1,021	1,484	.13	996
59 ...	2,773	.24	526	2,020	.17	1,000	1,736	.15	966
60 ...	3,344	.28	525	2,394	.20	975	2,124	.18	936
61 ...	3,966	.34	521	2,825	.24	947	2,579	.22	904
62 ...	4,713	.41	514	3,379	.30	917	3,142	.27	872
63 ...	5,745	.50	507	4,179	.36	885	3,912	.34	839
64 ...	6,684	.60	498	4,949	.45	853	4,628	.42	808
65 ...	7,629	.72	488	5,751	.54	821	5,351	.51	778
66 ...	8,773	.86	478	6,712	.66	790	6,214	.61	750
67 ...	10,119	1.01	469	7,821	.78	762	7,222	.72	725
68 ...	11,220	1.16	461	8,708	.90	737	8,051	.83	703
69 ...	12,276	1.32	455	9,509	1.02	715	8,830	.95	684

TABLE 2—Continued

Age	All Stays Stay Concept			All Stays Benefit Period Concept			Insurable Stays Benefit Period Concept		
	Admissions		Average Length of Stay	Admissions		Average Length of Stay	Admissions		Average Length of Stay
	Number	Rate		Number	Rate		Number	Rate	
70....	13,506	1.49%	449	10,391	1.15%	697	9,713	1.07%	669
71....	14,740	1.68	446	11,232	1.28	683	10,583	1.21	656
72....	16,049	1.90	444	12,108	1.44	671	11,498	1.36	646
73....	17,559	2.18	443	13,139	1.63	662	12,557	1.56	639
74....	19,368	2.53	442	14,420	1.89	655	13,839	1.81	633
75....	21,518	2.98	443	15,985	2.22	650	15,374	2.13	628
76....	24,030	3.54	444	17,842	2.63	646	17,173	2.53	624
77....	26,694	4.22	445	19,819	3.14	642	19,082	3.02	621
78....	29,561	5.02	446	21,935	3.73	638	21,124	3.59	618
79....	31,812	5.95	448	23,568	4.41	634	22,701	4.24	615
80....	34,404	6.99	448	25,418	5.16	630	24,487	4.97	612
81....	35,974	8.15	449	26,465	6.00	625	25,497	5.78	609
82....	37,573	9.44	450	27,472	6.90	618	26,466	6.65	604
83....	38,480	10.85	450	27,905	7.87	611	26,879	7.58	599
84....	38,730	12.38	451	27,801	8.89	603	26,772	8.56	594
85....	38,376	14.03	451	27,228	9.95	594	26,206	9.58	588
86....	37,311	15.77	451	26,145	11.05	585	25,143	10.63	583
87....	34,848	17.60	451	24,112	12.18	577	23,161	11.70	577
88....	32,949	19.46	450	22,523	13.30	569	21,601	12.76	571
89....	28,655	21.34	449	19,369	14.42	562	18,539	13.80	566
90....	25,385	23.19	447	16,987	15.52	556	16,224	14.82	561
91....	21,858	24.99	444	14,501	16.58	550	13,817	15.80	556
92....	19,036	26.72	440	12,536	17.60	544	11,919	16.73	550
93....	15,223	28.36	436	9,964	18.57	539	9,455	17.62	544
94....	11,532	29.91	430	7,513	19.49	534	7,117	18.46	538
95....	8,567	31.36	424	5,562	20.36	528	5,263	19.26	532
96....	6,342	32.70	417	4,110	21.19	523	3,885	20.03	525
97....	4,498	33.94	409	2,913	21.99	518	2,753	20.78	518
98....	3,079	35.08	401	1,998	22.76	513	1,888	21.51	510
99....	1,968	36.12	393	1,281	23.51	508	1,211	22.24	503
100....	1,212	37.08	385	793	24.27	503	751	22.97	496
101....	823	37.96	377	543	25.03	498	515	23.73	488
102....	547	38.77	369	364	25.81	494	346	24.52	481
103....	356	39.50	361	239	26.61	489	228	25.34	473
104....	225	40.18	353	154	27.43	485	147	26.20	466
105....	139	40.79	344	97	28.29	480	93	27.10	458
106....	84	41.34	336	60	29.17	476	57	28.05	450
107....	49	41.83	328	36	30.09	472	34	29.04	443
108....	28	42.26	320	21	31.04	467	20	30.07	435
109....	16	42.62	311	12	32.01	463	12	31.15	427
110....	8	42.93	303	6	33.02	459	6	32.27	419
30-64..	53,243	0.03	491	38,574	0.02	966	33,194	0.02	976
65-84..	450,017	3.14	450	334,000	2.33	651	319,412	2.23	630
85+...	293,114	20.14	444	199,065	13.68	563	190,390	13.08	564
Total ..	800,618	0.66%	450	575,552	0.48%	643	544,865	0.45%	630

TABLE 3  
TOTAL ADMISSIONS, ADMISSION RATES, AND AVERAGE LENGTH-OF-STAY (GRADUATED)  
FROM THE 1985 NNHS

Age	All Stays Stay Concept			All Stays Benefit Period Concept			Insurable Stays Benefit Period Concept		
	Admissions		Average Length of Stay	Admissions		Average Length of Stay	Admissions		Average Length of Stay
	Number	Rate		Number	Rate		Number	Rate	
<30 ...	15,923	.01%	418	13,725	.01%	886	7,922	.01%	907
30 ...	1,591	.04	418	1,380	.03	885	376	.01	910
31 ...	1,638	.04	418	1,377	.03	884	364	.01	909
32 ...	1,610	.04	418	1,278	.03	882	355	.01	907
33 ...	1,542	.04	417	1,115	.03	881	354	.01	905
34 ...	1,472	.04	417	943	.02	879	365	.01	903
35 ...	1,438	.04	417	824	.02	877	398	.01	899
36 ...	1,489	.04	416	819	.02	875	464	.01	895
37 ...	1,609	.04	416	922	.02	872	559	.01	891
38 ...	1,731	.05	415	1,089	.03	870	663	.02	886
39 ...	1,445	.05	415	1,006	.03	867	610	.02	881
40 ...	1,570	.05	415	1,197	.04	865	748	.03	875
41 ...	1,729	.06	415	1,419	.05	864	953	.03	869
42 ...	1,967	.07	415	1,701	.06	862	1,250	.04	863
43 ...	2,053	.08	415	1,829	.07	862	1,450	.05	857
44 ...	2,309	.09	416	2,077	.08	862	1,732	.07	851
45 ...	2,627	.11	417	2,350	.10	863	2,012	.08	846
46 ...	2,940	.12	418	2,585	.11	865	2,236	.09	841
47 ...	3,081	.13	420	2,635	.11	868	2,281	.10	836
48 ...	3,032	.13	422	2,499	.11	872	2,156	.09	833
49 ...	3,013	.13	425	2,380	.11	877	2,044	.09	830
50 ...	2,995	.13	428	2,262	.10	883	1,944	.09	827
51 ...	2,968	.14	431	2,156	.10	889	1,868	.09	825
52 ...	3,115	.14	435	2,208	.10	895	1,937	.09	823
53 ...	3,427	.15	438	2,414	.11	900	2,145	.10	821
54 ...	3,847	.17	442	2,734	.12	904	2,451	.11	819
55 ...	4,308	.19	445	3,111	.14	907	2,794	.12	815
56 ...	4,828	.21	448	3,537	.16	906	3,158	.14	810
57 ...	5,450	.24	450	4,021	.17	903	3,552	.15	804
58 ...	5,977	.26	451	4,401	.19	896	3,848	.17	795
59 ...	6,634	.30	452	4,837	.22	885	4,211	.19	784
60 ...	7,536	.33	451	5,426	.24	869	4,746	.21	771
61 ...	8,345	.38	450	5,943	.27	850	5,263	.24	755
62 ...	9,225	.43	448	6,534	.30	827	5,871	.27	737
63 ...	10,539	.49	445	7,471	.34	801	6,784	.31	718
64 ...	11,588	.56	441	8,269	.40	773	7,543	.36	697
65 ...	12,650	.64	438	9,112	.46	744	8,314	.42	676
66 ...	14,176	.75	434	10,300	.55	716	9,400	.50	656
67 ...	16,248	.88	430	11,875	.64	690	10,873	.59	636
68 ...	18,074	1.03	426	13,232	.76	665	12,207	.70	619
69 ...	20,097	1.21	422	14,684	.88	644	13,689	.82	603

TABLE 3—Continued

Age	All Stays Stay Concept			All Stays Benefit Period Concept			Insurable Stays Benefit Period Concept		
	Admissions		Average Length of Stay	Admissions		Average Length of Stay	Admissions		Average Length of Stay
	Number	Rate		Number	Rate		Number	Rate	
70....	22,542	1.40%	418	16,413	1.02%	625	15,478	.96%	590
71....	25,084	1.63	414	18,219	1.18	609	17,370	1.13	577
72....	27,734	1.89	411	20,139	1.37	596	19,370	1.32	567
73....	30,578	2.21	406	22,247	1.61	583	21,525	1.55	557
74....	33,657	2.59	402	24,573	1.89	573	23,843	1.83	549
75....	36,955	3.05	398	27,084	2.23	564	26,293	2.17	542
76....	40,391	3.59	395	29,689	2.64	556	28,802	2.56	535
77....	43,745	4.22	392	32,204	3.11	549	31,209	3.01	530
78....	47,029	4.95	390	34,632	3.64	544	33,529	3.53	526
79....	49,226	5.76	388	36,233	4.24	539	35,054	4.10	522
80....	51,669	6.66	388	38,001	4.90	536	36,745	4.74	520
81....	52,616	7.65	389	38,654	5.62	533	37,358	5.43	518
82....	53,617	8.75	392	39,311	6.42	530	37,973	6.20	517
83....	53,750	9.97	394	39,275	7.28	527	37,913	7.03	515
84....	53,371	11.32	398	38,801	8.23	524	37,421	7.93	514
85....	52,261	12.81	401	37,741	9.25	521	36,353	8.91	513
86....	50,343	14.44	405	36,069	10.35	518	34,685	9.95	512
87....	46,838	16.20	408	33,269	11.51	515	31,928	11.04	510
88....	43,750	18.06	410	30,801	12.72	511	29,491	12.18	508
89....	38,318	20.00	411	26,743	13.96	508	25,542	13.33	506
90....	34,445	21.98	410	23,843	15.21	504	22,718	14.50	502
91....	29,837	23.98	408	20,498	16.48	500	19,492	15.67	498
92....	26,023	25.99	405	17,758	17.74	495	16,862	16.84	493
93....	20,965	28.00	400	14,225	19.00	489	13,496	18.02	487
94....	15,982	29.99	394	10,795	20.25	483	10,240	19.21	480
95....	12,138	31.95	387	8,173	21.51	476	7,757	20.42	472
96....	9,169	33.90	380	6,164	22.79	468	5,857	21.65	463
97....	6,639	35.82	372	4,463	24.08	460	4,249	22.92	454
98....	4,549	37.71	364	3,064	25.40	452	2,923	24.23	445
99....	3,094	39.59	356	2,091	26.75	444	2,001	25.59	435
100....	1,788	41.44	349	1,215	28.16	436	1,166	27.02	425
101....	1,199	43.29	341	821	29.63	427	790	28.53	415
102....	790	45.13	333	545	31.17	419	527	30.11	406
103....	511	46.97	326	357	32.77	411	346	31.79	396
104....	325	48.81	319	229	34.45	403	223	33.56	386
105....	202	50.66	312	144	36.21	394	141	35.42	377
106....	122	52.50	305	89	38.04	386	87	37.37	367
107....	72	54.35	299	53	39.96	378	52	39.42	357
108....	42	56.20	293	31	41.95	370	31	41.56	348
109....	24	58.06	287	18	44.02	362	18	43.80	338
110....	13	59.92	281	10	46.17	354	10	46.14	328
30-64..	130,666	0.13	437	96,753	0.10	861	79,482	0.08	792
65-84..	703,210	2.85	400	514,678	2.08	567	494,368	2.00	544
85 + ...	399,440	18.99	403	279,207	13.27	504	266,985	12.69	499
Total ..	1,249,239	0.53%	405	904,364	0.38%	583	848,757	0.36%	556

TABLE 4

NURSING HOME RESIDENTS AND PREVALENCE RATES AS OF OCTOBER 11, 1985 FROM THE 1985 NNHS BY AGE AND SEX

Age	Male				Female				Total			
	Ungraduated		Graduated		Ungraduated		Graduated		Ungraduated		Graduated	
	Residents	Rate	Rate	Residents	Residents	Rate	Rate	Residents	Residents	Rate	Rate	Residents
<30....	7,128	.01%	.01%	8,325	3,580	.01%	.01%	3,964	10,708	.01%	.01%	12,289
30....	1,173	.05	.05	1,156	739	.03	.03	540	1,912	.04	.04	1,696
31....	1,826	.08	.06	1,218	1,013	.05	.03	590	2,839	.07	.04	1,808
32....	1,854	.09	.06	1,256	352	.02	.03	641	2,206	.05	.05	1,897
33....	1,777	.09	.06	1,274	658	.03	.04	696	2,435	.06	.05	1,970
34....	2,057	.10	.06	1,275	1,059	.05	.04	758	3,116	.08	.05	2,033
35....	698	.04	.07	1,255	554	.03	.04	818	1,252	.03	.05	2,074
36....	293	.02	.07	1,257	929	.05	.05	901	1,222	.03	.06	2,159
37....	0	.00	.07	1,266	1,300	.07	.05	996	1,300	.04	.06	2,263
38....	882	.04	.07	1,353	437	.02	.06	1,159	1,319	.03	.06	2,513
39....	1,895	.12	.07	1,124	1,738	.11	.07	1,054	3,633	.11	.07	2,178
40....	3,762	.26	.07	1,045	761	.05	.07	1,062	4,523	.15	.07	2,107
41....	1,624	.11	.07	1,079	1,399	.09	.08	1,174	3,023	.10	.08	2,253
42....	0	.00	.08	1,162	1,142	.07	.09	1,329	1,142	.04	.08	2,491
43....	473	.03	.08	1,135	292	.02	.09	1,338	765	.03	.09	2,473
44....	494	.04	.09	1,125	1,804	.14	.10	1,327	2,298	.09	.09	2,452
45....	1,386	.11	.09	1,179	1,009	.08	.11	1,347	2,395	.10	.10	2,526
46....	1,541	.13	.11	1,293	1,371	.11	.11	1,396	2,912	.12	.11	2,689
47....	874	.07	.12	1,444	2,703	.22	.12	1,446	3,577	.15	.12	2,890
48....	1,447	.13	.14	1,579	2,167	.19	.12	1,455	3,614	.16	.13	3,034
49....	934	.08	.16	1,754	1,200	.10	.13	1,491	2,134	.09	.14	3,244
50....	3,134	.28	.18	1,971	2,138	.19	.14	1,556	5,272	.23	.16	3,528
51....	2,097	.19	.20	2,145	977	.09	.15	1,607	3,074	.14	.17	3,752
52....	1,115	.10	.22	2,340	2,042	.19	.16	1,718	3,157	.15	.19	4,057
53....	2,694	.25	.24	2,601	1,231	.11	.17	1,926	3,925	.18	.21	4,526
54....	2,539	.23	.26	2,893	2,902	.25	.19	2,219	5,441	.24	.23	5,112
55....	5,175	.46	.28	3,158	1,756	.15	.22	2,553	6,931	.30	.25	5,711
56....	3,940	.35	.30	3,359	2,900	.25	.25	2,945	6,840	.30	.28	6,305
57....	5,294	.47	.32	3,587	2,303	.19	.29	3,455	7,597	.33	.31	7,042
58....	1,691	.15	.34	3,732	2,607	.22	.34	3,985	4,298	.19	.34	7,717
59....	4,311	.40	.36	3,867	5,848	.50	.39	4,545	10,159	.45	.37	8,412

TABLE 4—Continued

Age	Male				Female				Total			
	Ungraduated		Graduated		Ungraduated		Graduated		Ungraduated		Graduated	
	Residents	Rate	Rate	Residents	Residents	Rate	Rate	Residents	Residents	Rate	Rate	Residents
60....	3,089	.29%	.39%	4,141	2,932	.25%	.44%	5,258	6,021	.27%	.42%	9,399
61....	3,042	.29	.41	4,404	6,707	.57	.50	5,946	9,749	.43	.46	10,351
62....	4,743	.46	.45	4,612	6,495	.56	.56	6,515	11,238	.52	.51	11,127
63....	6,796	.66	.49	5,050	6,082	.53	.63	7,286	12,878	.59	.57	12,336
64....	6,234	.62	.55	5,463	10,339	.91	.70	7,927	16,573	.78	.63	13,390
65....	4,775	.51	.61	5,738	9,390	.87	.77	8,350	14,165	.70	.70	14,088
66....	4,066	.46	.69	6,066	10,065	.97	.85	8,827	14,131	.74	.78	14,893
67....	8,623	1.01	.78	6,670	8,824	.86	.94	9,600	17,447	.93	.87	16,270
68....	6,899	.85	.89	7,211	9,012	.91	1.05	10,368	15,911	.88	.98	17,579
69....	6,527	.86	1.02	7,750	14,607	1.54	1.18	11,174	21,134	1.24	1.11	18,923
70....	9,407	1.31	1.17	8,453	10,783	1.17	1.34	12,352	20,190	1.23	1.27	20,805
71....	7,723	1.13	1.35	9,240	18,572	2.06	1.54	13,865	26,295	1.66	1.46	23,105
72....	9,883	1.53	1.56	10,034	17,475	2.01	1.80	15,649	27,358	1.81	1.69	25,683
73....	14,109	2.34	1.80	10,805	17,314	2.07	2.12	17,721	31,423	2.18	1.98	28,526
74....	9,055	1.62	2.07	11,529	15,730	1.97	2.52	20,111	24,785	1.83	2.33	31,640
75....	13,383	2.61	2.38	12,222	25,128	3.31	3.01	22,852	38,511	3.03	2.76	35,074
76....	13,534	2.88	2.74	12,856	27,270	3.79	3.61	25,928	40,804	3.43	3.26	38,783
77....	16,070	3.77	3.15	13,413	26,271	3.88	4.32	29,232	42,341	3.84	3.87	42,645
78....	13,459	3.51	3.62	13,893	32,224	5.08	5.16	32,730	45,683	4.49	4.58	46,622
79....	13,461	3.92	4.15	14,259	36,039	6.10	6.14	36,265	49,500	5.30	5.41	50,523
80....	16,145	5.29	4.76	14,539	41,043	7.51	7.26	39,679	57,188	6.71	6.36	54,218
81....	15,667	5.84	5.45	14,623	41,674	8.30	8.53	42,784	57,341	7.45	7.45	57,407
82....	14,102	6.02	6.23	14,601	46,651	10.18	9.94	45,564	60,753	8.77	8.68	60,165
83....	12,387	6.08	7.10	14,461	45,121	10.82	11.50	47,953	57,508	9.27	10.06	62,414
84....	13,588	7.68	8.08	14,296	48,736	12.94	13.20	49,702	62,324	11.26	11.56	63,998
85....	14,165	9.35	9.16	13,888	45,675	13.55	15.04	50,697	59,840	12.24	13.22	64,584
86....	9,603	7.50	10.36	13,273	42,947	14.37	16.99	50,775	52,550	12.31	15.00	64,047
87....	9,974	9.34	11.67	12,452	51,918	19.91	19.05	49,682	61,892	16.84	16.90	62,134
88....	11,254	13.03	13.08	11,299	45,475	20.22	21.19	47,663	56,729	18.22	18.94	58,962
89....	9,055	13.11	14.61	10,086	50,804	26.62	23.40	44,650	59,859	23.03	21.06	54,736

TABLE 4—Continued

Age	Male				Female				Total			
	Ungraduated		Graduated		Ungraduated		Graduated		Ungraduated		Graduated	
	Residents	Rate	Rate	Residents	Residents	Rate	Rate	Residents	Residents	Rate	Rate	Residents
90 ....	10,277	17.68%	16.24%	9,441	41,008	25.29%	25.65%	41,595	51,285	23.28%	23.17%	51,036
91 ....	9,648	20.19	17.97	8,588	44,358	32.60	27.92	37,991	54,006	29.37	25.33	46,579
92 ....	8,862	23.38	19.80	7,505	34,092	30.70	30.19	33,523	42,954	28.84	27.54	41,027
93 ....	9,201	31.98	21.71	6,246	27,306	31.09	32.44	28,493	36,507	31.31	29.80	34,740
94 ....	3,381	16.38	23.72	4,894	24,655	36.38	34.66	23,492	28,036	31.71	32.11	28,386
95 ....	6,014	39.41	25.80	3,938	22,066	43.62	36.84	18,633	28,080	42.65	34.28	22,571
96 ....	3,572	31.92	27.97	3,130	15,957	42.43	38.95	14,650	19,529	40.02	36.43	17,779
97 ....	2,299	28.24	30.22	2,460	10,321	38.58	40.99	10,966	12,620	36.17	38.48	13,426
98 ....	992	18.45	32.54	1,749	6,466	35.35	42.96	7,859	7,458	31.51	40.60	9,609
99 ....	811	19.91	34.93	1,423	4,932	35.06	44.85	6,309	5,743	31.66	42.63	7,732
100 ....	1,481	65.21	37.41	849	5,951	63.23	46.66	4,391	7,432	63.61	44.86	5,241
101 ....	190	12.28	39.95	618	3,198	47.95	48.37	3,226	3,388	41.24	46.78	3,844
102 ....	261	25.17	42.57	441	1,167	25.18	49.99	2,317	1,428	25.18	48.64	2,758
103 ....	0	.00	45.27	308	1,922	60.84	51.52	1,628	1,922	50.07	50.41	1,935
104 ....	384	86.88	48.03	212	566	26.86	52.96	1,116	950	37.27	52.11	1,328
105 ....	297	106.07	50.87	142	476	34.67	54.30	746	773	46.76	53.72	888
106 ....	0	.00	53.79	93	262	29.94	55.55	486	262	25.00	55.26	579
107 ....	0	.00	56.77	60	259	47.79	56.70	307	259	39.97	56.71	368
108 ....	0	.00	59.83	37	0	.00	57.76	189	0	.00	58.09	226
109 ....	0	.00	62.97	23	0	.00	58.72	113	0	.00	59.40	137
110 ....	0	.00	66.17	13	0	.00	59.59	65	0	.00	60.61	78
30-64 ..	80,884	0.16	0.16	78,550	79,886	0.16	0.16	80,962	160,770	0.16	0.16	159,512
65-84 ...	222,863	2.07	2.07	222,659	501,929	3.32	3.32	500,705	724,792	2.80	2.80	723,364
85+ ...	111,721	14.22	14.40	113,171	481,781	23.45	23.44	481,560	593,502	20.90	20.94	594,731
Total ...	422,596	0.35%	0.35%	422,705	1,067,176	0.87%	0.87%	1,067,191	1,489,772	0.62%	0.62%	1,489,896



produces a rate with the same units of measure as the prevalence rate, as follows:

$$\begin{aligned} & (\text{residents admitted per year})/(\text{population}) * (\text{average years of residence}) \\ & \qquad \qquad \qquad = (\text{residents})/(\text{population}) \end{aligned}$$

Using this relationship, analysts have often tabulated two of these factors and then calculated the third. Among these factors, the prevalence rate can be estimated most accurately from the NNHS; the admission rates are second; and average lengths-of-stay are the least accurate. The prevalence rate is accurate because it is based on a count of the current number of residents, which is precisely the purpose of the Current Resident Survey.

The relationship between incidence rates and prevalence rates is much more complicated than implied by this equation. A more rigorous analysis of the relationship between incidence rates and prevalence rates should take into account several other factors. First, as noted earlier, the populations used in calculating the two rates are different. Thus, the relationship should include a factor (on the left side of the equation) that is equal to the population used in the incidence rate calculation divided by the population used in the prevalence rate calculation. Because this factor is unitless, its need is often not recognized.

Second, the resident population is not made up of admissions in the current year, but of admissions over all prior years. To obtain an estimate of current residents, the admissions in past years should be multiplied by the probability that they are still residents on the date on which prevalence is measured. The number of admissions in past years reflects changes through time in admission rates and the size of the population. The approximation does not reflect these trends; thus, the accuracy of the estimate depends on the stability of admission rates and the population through time. In addition, the probability of a past admission still being a resident depends on the distribution by length-of-stay for each prior age through time, whereas the approximation relies on the average length-of-stay for the current age in the current year. In general, the incidence rate times the average length-of-stay does not accurately reflect the number of current residents with long stays. To the extent that the population is growing and admission rates are increasing, the incidence rate times the average length-of-stay will overestimate the prevalence rate.

Nevertheless, this relationship is a useful concept, because the average length-of-stay is only about one and one-half years. Thus, the distortions resulting from the inaccurate estimate of current residents with long stays

are small. Similarly, the difference between the total population and the noninstitutionalized population is small except for advanced ages. If it is impossible to obtain an accurate measure of one factor, then the relationship can be used to roughly estimate the third. Many analysts use the relationship to estimate the average length-of-stay, which is the most difficult to obtain from the data. The use of this relationship generally results in an underestimate of the average length-of-stay. Because the NCHS publishes data on prevalence rates and average lengths-of-stay, some analysts use it to estimate incidence rates. In this report, however, each of the three factors (admission rate, prevalence rate, and average length-of-stay) was tabulated independently.

The relationship was used as a check for reasonableness. This check was done for the two sets of rates using all stays (under the stay concept and the benefit period concept), but not for the rates for insurable stays. The results of this comparison are shown in Table 5. In general, the relationship based on the rates under the stay concept seems to be closer than that based on the benefit period concept. This is to be expected, because the shorter the average length-of-stay, the more accurate the approximation.

### *C. Discharge Rates*

The distribution by length-of-stay was obtained by a mortality table construction method, in which the period of observation was the one-year period ending with the date of the interview. Each record in both the discharge survey and the resident survey was tabulated by age at admission (summarized into seven age groups) and duration since admission or duration at discharge. Durations were grouped as follows: For the first 30 days, by day; for the second through the 60th month, by month; from the sixth through the 15th year, by year. (Results for each of the first 30 days are not shown in the attached tables.) Discharge rates were not calculated for durations of more than 15 years because of the sparsity of data. The calculations were performed independently for males, females, and males and females combined, as well as for all stays under the stay concept, all stays under the benefit period concept, and insurable stays under the benefit period concept.

The contribution of each record to the exposure in the study was determined as the difference between (1) the earlier of the date of discharge or the date of the interview and (2) the later of the date of admission or one year prior to the date of the interview. The exposure was not adjusted to include the time from discharge to the end of the observation period, as would be done under the Balducci Hypothesis. If the total contribution to

TABLE 5

COMPARISON OF PREVALENCE RATES AND ADMISSION RATES FROM THE 1985 NNHS

Age	Prevalence Rate (1)	All Stays Stay Concept				All Stays Benefit Period Concept			
		Admission Rate (2)	ALOS (Year) (3)	Estimated Prevalence (2)*(3) (2)*(3)	(2)*(3)/(1)	Admission Rate (4)	ALOS (Year) (5)	Estimated Prevalence (4)*(5) (4)*(5)	(4)*(5)/(1)
<30 ...	.01%	.01%	1.15	.02%	149.19%	.01%	2.43	.03%	272.22%
30 ...	.04	.04	1.15	.04	109.45	.03	2.42	.08	200.83
31 ...	.04	.04	1.15	.05	105.85	.03	2.42	.08	188.23
32 ...	.05	.04	1.14	.05	99.20	.03	2.42	.08	166.35
33 ...	.05	.04	1.14	.04	91.36	.03	2.41	.07	139.49
34 ...	.05	.04	1.14	.04	84.63	.02	2.41	.06	114.24
35 ...	.05	.04	1.14	.04	80.55	.02	2.40	.05	97.20
36 ...	.06	.04	1.14	.05	79.36	.02	2.40	.05	91.66
37 ...	.06	.04	1.14	.05	80.40	.02	2.39	.06	96.69
38 ...	.06	.05	1.14	.05	82.19	.03	2.38	.07	108.32
39 ...	.07	.05	1.14	.06	83.60	.03	2.38	.08	121.68
40 ...	.07	.05	1.14	.06	84.65	.04	2.37	.10	134.62
41 ...	.08	.06	1.14	.07	86.48	.05	2.37	.11	147.75
42 ...	.08	.07	1.14	.07	91.21	.06	2.36	.13	163.95
43 ...	.09	.08	1.14	.09	99.79	.07	2.36	.16	184.42
44 ...	.09	.09	1.14	.10	110.84	.08	2.36	.19	206.49
45 ...	.10	.11	1.14	.12	121.18	.10	2.36	.23	224.21
46 ...	.11	.12	1.15	.14	126.74	.11	2.37	.25	230.26
47 ...	.12	.13	1.15	.15	125.09	.11	2.38	.26	220.96
48 ...	.13	.13	1.16	.15	117.99	.11	2.39	.26	200.84
49 ...	.14	.13	1.16	.16	109.00	.11	2.40	.25	177.69
50 ...	.16	.13	1.17	.16	100.87	.10	2.42	.25	157.18
51 ...	.17	.14	1.18	.16	94.94	.10	2.44	.24	142.15
52 ...	.19	.14	1.19	.17	91.38	.10	2.45	.25	133.34
53 ...	.21	.15	1.20	.19	90.05	.11	2.47	.27	130.30
54 ...	.23	.17	1.21	.21	90.51	.12	2.48	.30	131.73
55 ...	.25	.19	1.22	.23	92.01	.14	2.48	.34	135.42
56 ...	.28	.21	1.23	.26	93.86	.16	2.48	.39	139.24
57 ...	.31	.24	1.23	.29	95.54	.17	2.47	.43	141.49
58 ...	.34	.26	1.24	.33	96.74	.19	2.45	.48	141.40
59 ...	.37	.30	1.24	.37	97.83	.22	2.42	.52	139.71
60 ...	.42	.33	1.24	.41	99.18	.24	2.38	.57	137.57
61 ...	.46	.38	1.23	.46	100.80	.27	2.33	.62	135.62
62 ...	.51	.43	1.23	.52	102.55	.30	2.27	.68	134.15
63 ...	.57	.49	1.22	.59	104.59	.34	2.19	.75	133.50
64 ...	.63	.56	1.21	.67	107.28	.40	2.12	.84	134.06
65 ...	.70	.64	1.20	.77	110.85	.46	2.04	.94	135.79
66 ...	.78	.75	1.19	.89	115.18	.55	1.96	1.07	138.18
67 ...	.87	.88	1.18	1.04	119.64	.64	1.89	1.22	140.30
68 ...	.98	1.03	1.17	1.20	123.38	.76	1.82	1.38	141.13
69 ...	1.11	1.21	1.16	1.39	125.91	.88	1.76	1.55	140.37

TABLE 5—Continued

Age	All Stays								
	Prevalence Rate (1)	Stay Concept				Benefit Period Concept			
		Admission Rate (2)	ALOS (Year) (3)	Estimated Prevalence (2)*(3) (2)*(3)	(2)*(3) (1)	Admission Rate (4)	ALOS (Year) (5)	Estimated Prevalence (4)*(5) (4)*(5)	(4)*(5) (1)
70....	1.27%	1.40%	1.15	1.61%	126.90%	1.02%	1.71	1.75%	138.15%
71....	1.46	1.63	1.14	1.85	126.56	1.18	1.67	1.97	135.15
72....	1.69	1.89	1.12	2.12	125.38	1.37	1.63	2.24	132.07
73....	1.98	2.21	1.11	2.46	123.91	1.61	1.60	2.57	129.41
74....	2.33	2.59	1.10	2.85	122.34	1.89	1.57	2.97	127.16
75....	2.76	3.05	1.09	3.33	120.69	2.23	1.54	3.45	125.13%
76....	3.26	3.59	1.08	3.88	118.97	2.64	1.52	4.02	123.08
77....	3.87	4.22	1.07	4.53	117.17	3.11	1.50	4.68	120.87
78....	4.58	4.95	1.07	5.28	115.28	3.64	1.49	5.42	118.42
79....	5.41	5.76	1.06	6.13	113.30	4.24	1.48	6.26	115.74
80....	6.36	6.66	1.06	7.09	111.35	4.90	1.47	7.19	112.91
81....	7.45	7.65	1.07	8.17	109.53	5.62	1.46	8.20	110.02
82....	8.68	8.75	1.07	9.39	108.08	6.42	1.45	9.31	107.19
83....	10.06	9.97	1.08	10.77	107.08	7.28	1.44	10.51	104.50
84....	11.56	11.32	1.09	12.34	106.66	8.23	1.44	11.81	102.10
85....	13.22	12.81	1.10	14.09	106.62	9.25	1.43	13.20	99.87
86....	15.00	14.44	1.11	16.02	106.83	10.35	1.42	14.68	97.84
87....	16.90	16.20	1.12	18.10	107.10	11.51	1.41	16.22	95.97
88....	18.94	18.06	1.12	20.28	107.06	12.72	1.40	17.81	94.05
89....	21.06	20.00	1.12	22.50	106.80	13.96	1.39	19.42	92.21
90....	23.17	21.98	1.12	24.69	106.59	15.21	1.38	21.02	90.72
91....	25.33	23.98	1.12	26.82	105.86	16.48	1.37	22.57	89.08
92....	27.54	25.99	1.11	28.82	104.65	17.74	1.36	24.05	87.32
93....	29.80	28.00	1.10	30.69	102.99	19.00	1.34	25.46	85.45
94....	32.11	29.99	1.08	32.39	100.87	20.25	1.32	26.79	83.43
95....	34.28	31.95	1.06	33.92	98.96	21.51	1.30	28.04	81.79
96....	36.43	33.90	1.04	35.30	96.89	22.79	1.28	29.22	80.21
97....	38.48	35.82	1.02	36.54	94.95	24.08	1.26	30.36	78.89
98....	40.60	37.71	1.00	37.65	92.75	25.40	1.24	31.45	77.48
99....	42.63	39.59	.98	38.66	90.70	26.75	1.22	32.53	76.32
100....	44.86	41.44	.96	39.59	88.25	28.16	1.19	33.61	74.92
101....	46.78	43.29	.93	40.44	86.43	29.63	1.17	34.69	74.14
102....	48.64	45.13	.91	41.23	84.77	31.17	1.15	35.78	73.56
103....	50.41	46.97	.89	41.97	83.24	32.77	1.13	36.88	73.16
104....	52.11	48.81	.87	42.66	81.88	34.45	1.10	38.00	72.93
105....	53.72	50.66	.86	43.32	80.63	36.21	1.08	39.13	72.84
106....	55.26	52.50	.84	43.94	79.51	38.04	1.06	40.27	72.88
107....	56.71	54.35	.82	44.52	78.51	39.96	1.04	41.41	73.02
108....	58.09	56.20	.80	45.08	77.61	41.95	1.01	42.56	73.26
109....	59.40	58.06	.79	45.61	76.79	44.02	.99	43.70	73.56
110....	60.61	59.92	.77	46.12	76.10	46.17	.97	44.83	73.96
30-64..	0.16	0.13	1.20	0.16	99.67	0.10	2.36	0.23	145.44
65-84..	2.80	2.85	1.10	3.12	111.66	2.08	1.55	3.24	115.75
85+....	20.94	18.99	1.10	20.94	99.99	13.27	1.38	18.31	87.45
Total ..	0.62%	0.53%	1.11	0.58%	94.58%	0.38%	1.60	0.61%	98.67%

exposure of any record spanned two or more durational groups, the appropriate exposure was placed into each interval.

The discharges were also tabulated by sex, age group at admission, and duration interval at discharge. The discharge rates were then calculated by dividing the discharges in each interval by the corresponding exposure. Under the stay concept, all discharges were counted in determining the discharge rate. Under the benefit period concept, those discharges that transferred to another nursing home (either immediately or after a hospital stay) were excluded from the discharges. They were treated like a withdrawal from observation. A total of 39 percent of the discharges ended in a hospital stay followed by readmission to the same or another nursing home or a direct transfer to another home. Excluding these discharges resulted in lower discharge rates and longer lengths-of-stay, the longer length-of-stay offsetting the lower admission rate. By excluding transfers from the discharges, the only discharges that were counted were deaths and recoveries.

The discharge rates were then smoothed by the separate application of the Whittaker-Henderson Type B graduation formula within each set of equally spaced duration cells. Finally, because discharge rates were only calculated up to duration 15 years, it was assumed that the rate after the 15th year was the same as the rate in the 15th year.

Discharge rates were then used to calculate the proportion of nursing home admissions still resident at the end of each interval. This is equivalent to the  $l_x$  column of a life table with a radix of 1.0. The results of these calculations are shown in Table 6 for all stays under the stay concept, Table 7 for all stays under the benefit period concept, and Table 8 for insurable stays under the benefit period concept.

As mentioned earlier, the distribution by length-of-stay is not as accurately estimated from the NNHS as are the distributions by incidence rates and number of residents on October 11, 1985 (the average date of interview). Therefore, the distributions by length-of-stay were adjusted based on the number of residents on October 11, 1985 tabulated from the survey. An estimate of the number of residents on this date was made from the incidence rates and the fractions shown in Tables 6–8. The total number of residents was estimated separately for the stay concept and for the benefit period concept, while the number of residents without the excluded conditions was estimated for the benefit period concept.

Under each concept, the number of admissions in the U.S. (excluding Alaska and Hawaii) was calculated for each year back to 1970, by applying the admission rates to the July 1 noninstitutionalized population in each year.

TABLE 6

PROPORTION OF ADMISSIONS STILL RESIDENT AT THE END OF THE PERIOD SHOWN;  
ALL STAYS; STAY CONCEPT; UNADJUSTED 1985 NNHS EXPERIENCE

Days from Admission	Age at Admission						
	<45	45-54	55-64	65-74	75-84	85-94	95+
	Males						
0.....	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
10.....	.8747	.8420	.9054	.8635	.8491	.8577	.8721
20.....	.7800	.7441	.7996	.7840	.7298	.7359	.7698
30.....	.7243	.6748	.7315	.6971	.6298	.6622	.7036
60.....	.5620	.4720	.5818	.5540	.4724	.5337	.4936
90.....	.4545	.3612	.4744	.4545	.3747	.4420	.3719
121.....	.3805	.2964	.3955	.3832	.3107	.3748	.2963
151.....	.3278	.2563	.3362	.3306	.2666	.3241	.2463
182.....	.2888	.2306	.2908	.2908	.2349	.2848	.2114
212.....	.2588	.2133	.2555	.2601	.2109	.2536	.1856
243.....	.2348	.2012	.2276	.2358	.1920	.2284	.1657
273.....	.2147	.1921	.2053	.2162	.1765	.2075	.1496
304.....	.1973	.1847	.1872	.2001	.1632	.1899	.1361
334.....	.1818	.1780	.1723	.1866	.1515	.1748	.1248
365.....	.1680	.1716	.1597	.1750	.1410	.1618	.1151
547.....	.1084	.1292	.1096	.1279	.0938	.1091	.0814
730.....	.0715	.0909	.0825	.0986	.0633	.0794	.0648
912.....	.0500	.0659	.0695	.0764	.0402	.0560	.0446
1095.....	.0429	.0471	.0601	.0576	.0261	.0364	.0227
1277.....	.0416	.0353	.0480	.0438	.0193	.0242	.0105
1460.....	.0408	.0254	.0338	.0361	.0152	.0168	.0065
1642.....	.0366	.0173	.0238	.0319	.0118	.0107	.0058
1825.....	.0334	.0119	.0192	.0242	.0093	.0068	.0057
2190.....	.0220	.0092	.0106	.0072	.0033	.0018	.0009
2555.....	.0135	.0077	.0066	.0025	.0009	.0003	.0003
2920.....	.0081	.0067	.0044	.0009	.0002	.0000	.0002
3285.....	.0049	.0061	.0030	.0004	.0000	.0000	.0001
3650.....	.0031	.0056	.0021	.0002	.0000	.0000	.0001
4015.....	.0021	.0051	.0013	.0001	.0000	.0000	.0001
4380.....	.0016	.0042	.0008	.0001	.0000	.0000	.0001
4745.....	.0014	.0030	.0004	.0000	.0000	.0000	.0000
5110.....	.0012	.0018	.0002	.0000	.0000	.0000	.0000
5475.....	.0011	.0008	.0001	.0000	.0000	.0000	.0000
5840.....	.0010	.0004	.0000	.0000	.0000	.0000	.0000
6205.....	.0009	.0002	.0000	.0000	.0000	.0000	.0000
6570.....	.0008	.0001	.0000	.0000	.0000	.0000	.0000
6935.....	.0007	.0000	.0000	.0000	.0000	.0000	.0000
7300.....	.0006	.0000	.0000	.0000	.0000	.0000	.0000
7665.....	.0006	.0000	.0000	.0000	.0000	.0000	.0000
8030.....	.0005	.0000	.0000	.0000	.0000	.0000	.0000
8395.....	.0005	.0000	.0000	.0000	.0000	.0000	.0000
8760.....	.0004	.0000	.0000	.0000	.0000	.0000	.0000
9125.....	.0004	.0000	.0000	.0000	.0000	.0000	.0000

TABLE 6--Continued

Days from Admission	Age at Admission						
	< 45	45-54	55-64	65-74	75-84	85-94	95 +
Females							
0.....	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
10.....	.8648	.9363	.9095	.8995	.8900	.8798	.8926
20.....	.8048	.8426	.8192	.7864	.7839	.7854	.8349
30.....	.7434	.7491	.7363	.6958	.7064	.7212	.7813
60.....	.6521	.5378	.5872	.5430	.5684	.5902	.6266
90.....	.5747	.4149	.4917	.4486	.4761	.5021	.5226
121.....	.5083	.3386	.4282	.3878	.4122	.4407	.4500
151.....	.4509	.2884	.3846	.3471	.3664	.3966	.3975
182.....	.4008	.2536	.3535	.3188	.3325	.3638	.3580
212.....	.3570	.2283	.3303	.2984	.3065	.3385	.3272
243.....	.3188	.2089	.3120	.2828	.2858	.3181	.3023
273.....	.2855	.1933	.2967	.2699	.2688	.3010	.2814
304.....	.2566	.1800	.2829	.2584	.2543	.2861	.2632
334.....	.2317	.1682	.2700	.2476	.2415	.2726	.2469
365.....	.2104	.1572	.2575	.2369	.2301	.2601	.2322
547.....	.1378	.1031	.1899	.1707	.1772	.1965	.1648
730.....	.1008	.0759	.1437	.1209	.1409	.1461	.1133
912.....	.0693	.0666	.1082	.0908	.1124	.1082	.0681
1095.....	.0538	.0607	.0823	.0699	.0863	.0820	.0438
1277.....	.0481	.0556	.0709	.0569	.0651	.0628	.0344
1460.....	.0394	.0473	.0679	.0487	.0501	.0459	.0284
1642.....	.0225	.0295	.0625	.0412	.0380	.0319	.0226
1825.....	.0128	.0145	.0521	.0307	.0260	.0236	.0159
2190.....	.0094	.0094	.0340	.0142	.0133	.0079	.0097
2555.....	.0075	.0067	.0204	.0073	.0055	.0025	.0016
2920.....	.0064	.0051	.0117	.0040	.0019	.0007	.0000
3285.....	.0057	.0042	.0066	.0023	.0006	.0001	.0000
3650.....	.0052	.0036	.0039	.0013	.0002	.0000	.0000
4015.....	.0046	.0032	.0024	.0007	.0001	.0000	.0000
4380.....	.0037	.0030	.0017	.0004	.0000	.0000	.0000
4745.....	.0025	.0028	.0013	.0002	.0000	.0000	.0000
5110.....	.0014	.0027	.0011	.0001	.0000	.0000	.0000
5475.....	.0005	.0026	.0009	.0000	.0000	.0000	.0000
5840.....	.0002	.0025	.0008	.0000	.0000	.0000	.0000
6205.....	.0001	.0024	.0007	.0000	.0000	.0000	.0000
6570.....	.0000	.0023	.0006	.0000	.0000	.0000	.0000
6935.....	.0000	.0023	.0005	.0000	.0000	.0000	.0000
7300.....	.0000	.0022	.0005	.0000	.0000	.0000	.0000
7665.....	.0000	.0021	.0004	.0000	.0000	.0000	.0000
8030.....	.0000	.0021	.0004	.0000	.0000	.0000	.0000
8395.....	.0000	.0020	.0003	.0000	.0000	.0000	.0000
8760.....	.0000	.0019	.0003	.0000	.0000	.0000	.0000
9125.....	.0000	.0019	.0002	.0000	.0000	.0000	.0000

TABLE 6—Continued

Days from Admission	Age at Admission						
	<45	45-54	55-64	65-74	75-84	85-94	95 +
	Total						
0.....	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
10.....	.8715	.8830	.9072	.8849	.8763	.8741	.8868
20.....	.7888	.7873	.8084	.7854	.7658	.7722	.8164
30.....	.7315	.7143	.7336	.6963	.6807	.7055	.7593
60.....	.5939	.5046	.5833	.5472	.5366	.5750	.5913
90.....	.4958	.3874	.4815	.4509	.4424	.4860	.4822
121.....	.4236	.3173	.4102	.3862	.3782	.4232	.4082
151.....	.3688	.2730	.3585	.3411	.3328	.3774	.3557
182.....	.3260	.2437	.3200	.3085	.2994	.3429	.3170
212.....	.2915	.2234	.2902	.2840	.2739	.3159	.2873
243.....	.2629	.2086	.2665	.2649	.2537	.2941	.2636
273.....	.2386	.1971	.2471	.2493	.2370	.2759	.2438
304.....	.2175	.1876	.2307	.2358	.2228	.2601	.2267
334.....	.1990	.1790	.2164	.2238	.2102	.2460	.2118
365.....	.1827	.1708	.2036	.2126	.1989	.2332	.1984
547.....	.1188	.1231	.1450	.1545	.1469	.1722	.1408
730.....	.0817	.0895	.1094	.1132	.1119	.1275	.0998
912.....	.0566	.0714	.0865	.0861	.0850	.0934	.0618
1095.....	.0461	.0569	.0695	.0658	.0633	.0687	.0388
1277.....	.0426	.0464	.0578	.0523	.0476	.0513	.0289
1460.....	.0373	.0360	.0491	.0442	.0368	.0372	.0237
1642.....	.0270	.0235	.0414	.0380	.0281	.0254	.0194
1825.....	.0203	.0143	.0344	.0285	.0200	.0183	.0139
2190.....	.0141	.0106	.0205	.0113	.0096	.0059	.0070
2555.....	.0103	.0085	.0125	.0052	.0037	.0018	.0014
2920.....	.0079	.0071	.0078	.0026	.0012	.0005	.0001
3285.....	.0062	.0062	.0049	.0014	.0003	.0001	.0000
3650.....	.0050	.0055	.0031	.0008	.0001	.0000	.0000
4015.....	.0040	.0049	.0020	.0004	.0000	.0000	.0000
4380.....	.0032	.0044	.0013	.0002	.0000	.0000	.0000
4745.....	.0025	.0039	.0008	.0001	.0000	.0000	.0000
5110.....	.0019	.0034	.0005	.0001	.0000	.0000	.0000
5475.....	.0013	.0029	.0003	.0000	.0000	.0000	.0000
5840.....	.0010	.0024	.0002	.0000	.0000	.0000	.0000
6205.....	.0007	.0020	.0001	.0000	.0000	.0000	.0000
6570.....	.0005	.0017	.0001	.0000	.0000	.0000	.0000
6935.....	.0003	.0014	.0001	.0000	.0000	.0000	.0000
7300.....	.0002	.0012	.0000	.0000	.0000	.0000	.0000
7665.....	.0002	.0010	.0000	.0000	.0000	.0000	.0000
8030.....	.0001	.0009	.0000	.0000	.0000	.0000	.0000
8395.....	.0001	.0007	.0000	.0000	.0000	.0000	.0000
8760.....	.0001	.0006	.0000	.0000	.0000	.0000	.0000
9125.....	.0000	.0005	.0000	.0000	.0000	.0000	.0000



TABLE 7

PROPORTION OF ADMISSIONS STILL RESIDENT AT THE END OF THE PERIOD SHOWN;  
ALL STAYS; BENEFIT PERIOD CONCEPT; UNADJUSTED 1985 NNHS EXPERIENCE

Days from Admission	Age at Admission						
	< 45	45-54	55-64	65-74	75-84	85-94	95 +
Males							
0.....	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
10.....	.9146	.9218	.9466	.8974	.8844	.8854	.9238
20.....	.8641	.8612	.8670	.8404	.7942	.7816	.8136
30.....	.8251	.8523	.8168	.7709	.7145	.7139	.7694
60.....	.7275	.6959	.7044	.6472	.5842	.6152	.5863
90.....	.6499	.5949	.6252	.5600	.4967	.5395	.4650
121.....	.5878	.5276	.5680	.4973	.4360	.4806	.3816
151.....	.5381	.4816	.5256	.4514	.3924	.4339	.3224
182.....	.4981	.4495	.4930	.4174	.3600	.3966	.2791
212.....	.4659	.4263	.4672	.3918	.3350	.3662	.2467
243.....	.4397	.4088	.4458	.3721	.3149	.3414	.2219
273.....	.4182	.3949	.4274	.3565	.2981	.3208	.2024
304.....	.4001	.3830	.4109	.3436	.2834	.3035	.1869
334.....	.3845	.3721	.3956	.3324	.2702	.2890	.1745
365.....	.3707	.3613	.3808	.3221	.2580	.2764	.1643
547.....	.2981	.2868	.2978	.2629	.1958	.2214	.1333
730.....	.2338	.2179	.2450	.2116	.1461	.1718	.1200
912.....	.2009	.1889	.2309	.1830	.1032	.1198	.0854
1095.....	.1934	.1698	.2253	.1595	.0719	.0801	.0419
1277.....	.1921	.1429	.2018	.1311	.0541	.0567	.0239
1460.....	.1918	.1254	.1720	.1088	.0426	.0420	.0200
1642.....	.1910	.1214	.1562	.0975	.0329	.0298	.0194
1825.....	.1907	.0929	.1420	.0820	.0258	.0227	.0178
2190.....	.1420	.0820	.1117	.0369	.0167	.0107	.0027
2555.....	.1124	.0716	.0869	.0170	.0101	.0007	.0010
2920.....	.0926	.0617	.0666	.0081	.0057	.0000	.0005
3285.....	.0780	.0521	.0503	.0040	.0031	.0000	.0003
3650.....	.0660	.0431	.0374	.0021	.0017	.0000	.0002
4015.....	.0551	.0346	.0273	.0011	.0009	.0000	.0002
4380.....	.0447	.0269	.0194	.0006	.0005	.0000	.0002
4745.....	.0346	.0202	.0135	.0004	.0003	.0000	.0001
5110.....	.0249	.0145	.0091	.0002	.0002	.0000	.0001
5475.....	.0163	.0099	.0060	.0002	.0001	.0000	.0001
5840.....	.0107	.0068	.0039	.0001	.0001	.0000	.0000
6205.....	.0070	.0046	.0026	.0001	.0001	.0000	.0000
6570.....	.0046	.0032	.0017	.0000	.0000	.0000	.0000
6935.....	.0030	.0022	.0011	.0000	.0000	.0000	.0000
7300.....	.0020	.0015	.0007	.0000	.0000	.0000	.0000
7665.....	.0013	.0010	.0005	.0000	.0000	.0000	.0000
8030.....	.0008	.0007	.0003	.0000	.0000	.0000	.0000
8395.....	.0006	.0005	.0002	.0000	.0000	.0000	.0000
8760.....	.0004	.0003	.0001	.0000	.0000	.0000	.0000
9125.....	.0002	.0002	.0001	.0000	.0000	.0000	.0000

TABLE 7—Continued

Days from Admission	Age at Admission						
	< 45	45-54	55-64	65-74	75-84	85-94	95 +
Females							
0.....	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
10.....	.9225	.9776	.9246	.9211	.9315	.9159	.9134
20.....	.8562	.8999	.8441	.8346	.8551	.8418	.8658
30.....	.8226	.8390	.8047	.7697	.7824	.7896	.8149
60.....	.7892	.6791	.6854	.6482	.6742	.6727	.7360
90.....	.7509	.5800	.6040	.5669	.5973	.5925	.6664
121.....	.7100	.5165	.5474	.5113	.5414	.5362	.6055
151.....	.6686	.4746	.5077	.4727	.4999	.4959	.5524
182.....	.6284	.4460	.4795	.4454	.4685	.4665	.5065
212.....	.5907	.4256	.4592	.4258	.4441	.4443	.4669
243.....	.5563	.4100	.4441	.4113	.4245	.4269	.4327
273.....	.5258	.3970	.4324	.4000	.4084	.4127	.4030
304.....	.4992	.3850	.4226	.3908	.3945	.4004	.3769
334.....	.4765	.3731	.4138	.3826	.3823	.3892	.3539
365.....	.4574	.3609	.4053	.3750	.3712	.3785	.3333
547.....	.3950	.2838	.3528	.3247	.3163	.3160	.2468
730.....	.3325	.2392	.3129	.2651	.2720	.2570	.1917
912.....	.2450	.2248	.2736	.2176	.2345	.2104	.1485
1095.....	.1943	.2216	.2375	.1860	.1998	.1745	.1185
1277.....	.1819	.2122	.2199	.1609	.1682	.1404	.0954
1460.....	.1731	.1967	.2103	.1393	.1399	.1072	.0797
1642.....	.1441	.1807	.1953	.1239	.1145	.0820	.0713
1825.....	.1127	.1569	.1851	.1149	.0916	.0681	.0573
2190.....	.0990	.1271	.1486	.0789	.0559	.0377	.0443
2555.....	.0900	.1033	.1155	.0541	.0323	.0154	.0248
2920.....	.0839	.0846	.0881	.0370	.0180	.0046	.0069
3285.....	.0786	.0703	.0667	.0255	.0099	.0010	.0000
3650.....	.0702	.0596	.0509	.0176	.0054	.0002	.0000
4015.....	.0571	.0519	.0398	.0123	.0030	.0000	.0000
4380.....	.0401	.0467	.0322	.0087	.0018	.0000	.0000
4745.....	.0224	.0431	.0274	.0062	.0011	.0000	.0000
5110.....	.0084	.0407	.0243	.0046	.0007	.0000	.0000
5475.....	.0014	.0390	.0223	.0034	.0005	.0000	.0000
5840.....	.0002	.0373	.0204	.0025	.0004	.0000	.0000
6205.....	.0000	.0357	.0187	.0019	.0003	.0000	.0000
6570.....	.0000	.0342	.0171	.0014	.0002	.0000	.0000
6935.....	.0000	.0328	.0157	.0010	.0001	.0000	.0000
7300.....	.0000	.0314	.0143	.0008	.0001	.0000	.0000
7665.....	.0000	.0300	.0131	.0006	.0001	.0000	.0000
8030.....	.0000	.0288	.0120	.0004	.0001	.0000	.0000
8395.....	.0000	.0276	.0110	.0003	.0000	.0000	.0000
8760.....	.0000	.0264	.0101	.0002	.0000	.0000	.0000
9125.....	.0000	.0253	.0092	.0002	.0000	.0000	.0000

TABLE 7—Continued

Days from Admission	Age at Admission						
	< 45	45-54	55-64	65-74	75-84	85-94	95 +
	Total						
0.....	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
10.....	.9170	.9444	.9364	.9115	.9149	.9072	.9164
20.....	.8623	.8772	.8564	.8369	.8337	.8245	.8510
30.....	.8337	.8512	.8121	.7704	.7585	.7678	.8052
60.....	.7590	.6929	.6962	.6480	.6433	.6557	.7003
90.....	.6945	.5922	.6159	.5645	.5628	.5769	.6160
121.....	.6389	.5262	.5591	.5063	.5052	.5201	.5477
151.....	.5912	.4817	.5182	.4650	.4629	.4784	.4919
182.....	.5505	.4509	.4880	.4352	.4311	.4470	.4461
212.....	.5159	.4287	.4652	.4134	.4064	.4228	.4081
243.....	.4865	.4119	.4472	.3969	.3867	.4035	.3764
273.....	.4615	.3983	.4323	.3840	.3702	.3876	.3495
304.....	.4402	.3863	.4192	.3733	.3561	.3740	.3264
334.....	.4218	.3749	.4071	.3640	.3435	.3619	.3063
365.....	.4058	.3635	.3954	.3552	.3320	.3507	.2887
547.....	.3346	.2886	.3258	.3006	.2739	.2905	.2174
730.....	.2679	.2310	.2774	.2437	.2268	.2341	.1728
912.....	.2123	.2079	.2497	.2039	.1867	.1851	.1313
1095.....	.1861	.1925	.2272	.1756	.1526	.1468	.0979
1277.....	.1802	.1694	.2063	.1493	.1257	.1153	.0771
1460.....	.1744	.1518	.1870	.1274	.1035	.0878	.0660
1642.....	.1564	.1449	.1722	.1137	.0836	.0663	.0605
1825.....	.1360	.1145	.1613	.1017	.0665	.0543	.0487
2190.....	.1110	.0976	.1284	.0615	.0411	.0292	.0281
2555.....	.0953	.0825	.0997	.0379	.0240	.0110	.0136
2920.....	.0841	.0693	.0761	.0239	.0134	.0029	.0047
3285.....	.0742	.0579	.0575	.0153	.0074	.0005	.0008
3650.....	.0642	.0483	.0434	.0100	.0040	.0001	.0000
4015.....	.0529	.0404	.0330	.0067	.0022	.0000	.0000
4380.....	.0404	.0339	.0255	.0045	.0013	.0000	.0000
4745.....	.0276	.0286	.0202	.0031	.0008	.0000	.0000
5110.....	.0160	.0244	.0165	.0022	.0005	.0000	.0000
5475.....	.0073	.0212	.0140	.0015	.0004	.0000	.0000
5840.....	.0033	.0183	.0119	.0011	.0003	.0000	.0000
6205.....	.0015	.0159	.0101	.0008	.0002	.0000	.0000
6570.....	.0007	.0137	.0085	.0006	.0001	.0000	.0000
6935.....	.0003	.0119	.0073	.0004	.0001	.0000	.0000
7300.....	.0001	.0103	.0062	.0003	.0001	.0000	.0000
7665.....	.0001	.0089	.0052	.0002	.0000	.0000	.0000
8030.....	.0000	.0077	.0044	.0001	.0000	.0000	.0000
8395.....	.0000	.0067	.0038	.0001	.0000	.0000	.0000
8760.....	.0000	.0058	.0032	.0001	.0000	.0000	.0000
9125.....	.0000	.0050	.0027	.0000	.0000	.0000	.0000

TABLE 8

PROPORTION OF ADMISSIONS STILL RESIDENT AT THE END OF THE PERIOD SHOWN;  
INSURABLE STAYS; BENEFIT PERIOD CONCEPT; UNADJUSTED 1985 NNHS EXPERIENCE

Days from Admission	Age at Admission						
	<45	45-54	55-64	65-74	75-84	85-94	95+
Males							
0.....	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
10.....	.8595	.9029	.9410	.8935	.8826	.8839	.9294
20.....	.8332	.8281	.8530	.8356	.7927	.7792	.8401
30.....	.8016	.8172	.7976	.7616	.7121	.7154	.7939
60.....	.6772	.6794	.6750	.6324	.5840	.6110	.6039
90.....	.5862	.5907	.5897	.5427	.4973	.5322	.4756
121.....	.5188	.5324	.5286	.4790	.4367	.4717	.3861
151.....	.4684	.4932	.4834	.4329	.3929	.4245	.3217
182.....	.4304	.4662	.4488	.3992	.3602	.3871	.2743
212.....	.4014	.4471	.4213	.3740	.3349	.3571	.2386
243.....	.3790	.4327	.3986	.3549	.3145	.3326	.2111
273.....	.3610	.4210	.3790	.3399	.2973	.3124	.1897
304.....	.3461	.4102	.3616	.3277	.2824	.2956	.1728
334.....	.3331	.3995	.3455	.3171	.2689	.2814	.1592
365.....	.3210	.3880	.3303	.3074	.2565	.2692	.1484
547.....	.2549	.2944	.2480	.2502	.1930	.2162	.1169
730.....	.2077	.2067	.1988	.1985	.1420	.1679	.1057
912.....	.1884	.1725	.1864	.1690	.0991	.1159	.0754
1095.....	.1844	.1533	.1779	.1446	.0682	.0758	.0368
1277.....	.1837	.1303	.1492	.1153	.0507	.0522	.0209
1460.....	.1834	.1182	.1225	.0926	.0393	.0379	.0176
1642.....	.1827	.1153	.1147	.0811	.0296	.0266	.0170
1825.....	.1824	.0799	.1134	.0674	.0234	.0203	.0155
2190.....	.1397	.0679	.0846	.0298	.0148	.0074	.0024
2555.....	.1071	.0563	.0639	.0134	.0088	.0000	.0009
2920.....	.0818	.0455	.0486	.0062	.0049	.0000	.0004
3285.....	.0620	.0358	.0367	.0030	.0027	.0000	.0003
3650.....	.0463	.0276	.0274	.0015	.0014	.0000	.0002
4015.....	.0340	.0207	.0199	.0008	.0007	.0000	.0002
4380.....	.0245	.0151	.0140	.0004	.0004	.0000	.0001
4745.....	.0171	.0109	.0093	.0002	.0002	.0000	.0001
5110.....	.0116	.0076	.0058	.0002	.0001	.0000	.0001
5475.....	.0076	.0052	.0033	.0001	.0001	.0000	.0001
5840.....	.0049	.0036	.0019	.0001	.0000	.0000	.0000
6205.....	.0032	.0025	.0011	.0000	.0000	.0000	.0000
6570.....	.0021	.0017	.0006	.0000	.0000	.0000	.0000
6935.....	.0014	.0012	.0004	.0000	.0000	.0000	.0000
7300.....	.0009	.0008	.0002	.0000	.0000	.0000	.0000
7665.....	.0006	.0006	.0001	.0000	.0000	.0000	.0000
8030.....	.0004	.0004	.0001	.0000	.0000	.0000	.0000
8395.....	.0003	.0003	.0000	.0000	.0000	.0000	.0000
8760.....	.0002	.0002	.0000	.0000	.0000	.0000	.0000
9125.....	.0001	.0001	.0000	.0000	.0000	.0000	.0000

TABLE 8—Continued

Days from Admission	Age at Admission						
	<45	45-54	55-64	65-74	75-84	85-94	95 +
Females							
0.....	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
10.....	.8884	.9727	.9229	.9266	.9322	.9139	.9092
20.....	.7935	.9126	.8401	.8390	.8531	.8403	.8592
30.....	.7458	.8514	.8044	.7706	.7794	.7881	.8059
60.....	.7222	.6854	.6771	.6436	.6687	.6705	.7285
90.....	.7012	.5839	.5924	.5592	.5903	.5900	.6592
121.....	.6820	.5202	.5350	.5019	.5336	.5335	.5979
151.....	.6644	.4799	.4958	.4624	.4918	.4932	.5444
182.....	.6478	.4546	.4688	.4346	.4602	.4637	.4982
212.....	.6319	.4366	.4497	.4148	.4358	.4415	.4585
243.....	.6164	.4236	.4360	.4002	.4163	.4241	.4243
273.....	.6011	.4141	.4260	.3891	.4002	.4098	.3948
304.....	.5859	.4072	.4177	.3800	.3864	.3975	.3690
334.....	.5707	.4021	.4099	.3721	.3743	.3862	.3462
365.....	.5558	.3972	.4019	.3647	.3633	.3755	.3258
547.....	.4962	.3306	.3419	.3156	.3087	.3135	.2391
730.....	.4775	.2638	.2925	.2550	.2641	.2566	.1869
912.....	.4012	.2383	.2524	.2049	.2266	.2122	.1485
1095.....	.3028	.2334	.2190	.1728	.1916	.1778	.1197
1277.....	.2681	.2198	.2037	.1502	.1603	.1446	.0960
1460.....	.2508	.1961	.1975	.1316	.1331	.1104	.0799
1642.....	.2018	.1880	.1932	.1175	.1089	.0835	.0717
1825.....	.1503	.1866	.1921	.1087	.0876	.0696	.0575
2190.....	.1307	.1636	.1343	.0739	.0525	.0399	.0445
2555.....	.1127	.1384	.0964	.0497	.0298	.0176	.0249
2920.....	.0954	.1145	.0712	.0334	.0163	.0060	.0069
3285.....	.0788	.0939	.0540	.0225	.0087	.0016	.0000
3650.....	.0628	.0776	.0421	.0154	.0047	.0003	.0000
4015.....	.0479	.0655	.0339	.0108	.0026	.0001	.0000
4380.....	.0346	.0575	.0281	.0077	.0015	.0000	.0000
4745.....	.0233	.0521	.0241	.0057	.0009	.0000	.0000
5110.....	.0144	.0485	.0215	.0044	.0006	.0000	.0000
5475.....	.0080	.0460	.0197	.0036	.0005	.0000	.0000
5840.....	.0045	.0436	.0181	.0029	.0003	.0000	.0000
6205.....	.0025	.0413	.0166	.0023	.0003	.0000	.0000
6570.....	.0014	.0392	.0152	.0019	.0002	.0000	.0000
6935.....	.0008	.0371	.0139	.0015	.0001	.0000	.0000
7300.....	.0004	.0352	.0128	.0012	.0001	.0000	.0000
7665.....	.0002	.0334	.0117	.0010	.0001	.0000	.0000
8030.....	.0001	.0316	.0107	.0008	.0001	.0000	.0000
8395.....	.0001	.0300	.0099	.0006	.0000	.0000	.0000
8760.....	.0000	.0284	.0090	.0005	.0000	.0000	.0000
9125.....	.0000	.0269	.0083	.0004	.0000	.0000	.0000

TABLE 8—Continued

Days from Admission	Age at Admission						
	<45	45-54	55-64	65-74	75-84	85-94	95+
	Total						
0.....	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
10.....	.8719	.9323	.9326	.9133	.9146	.9054	.9150
20.....	.8178	.8639	.8471	.8376	.8317	.8228	.8538
30.....	.7881	.8366	.8010	.7674	.7556	.7673	.8056
60.....	.7057	.6872	.6760	.6393	.6392	.6531	.6998
90.....	.6424	.5929	.5911	.5529	.5581	.5731	.6137
121.....	.5935	.5319	.5322	.4933	.5000	.5159	.5435
151.....	.5553	.4918	.4905	.4513	.4575	.4740	.4860
182.....	.5253	.4650	.4602	.4213	.4256	.4425	.4388
212.....	.5012	.4460	.4376	.3995	.4008	.4184	.3997
243.....	.4816	.4324	.4200	.3832	.3810	.3992	.3673
273.....	.4649	.4225	.4055	.3705	.3646	.3834	.3399
304.....	.4500	.4138	.3928	.3602	.3504	.3699	.3166
334.....	.4362	.4052	.3808	.3512	.3379	.3579	.2963
365.....	.4229	.3957	.3689	.3428	.3264	.3467	.2786
547.....	.3533	.3113	.2943	.2896	.2681	.2874	.2074
730.....	.3085	.2327	.2421	.2321	.2205	.2327	.1658
912.....	.2683	.2016	.2161	.1905	.1803	.1850	.1284
1095.....	.2337	.1848	.1951	.1616	.1459	.1474	.0964
1277.....	.2219	.1618	.1736	.1366	.1193	.1163	.0756
1460.....	.2104	.1459	.1571	.1164	.0979	.0882	.0646
1642.....	.1798	.1417	.1516	.1034	.0787	.0659	.0593
1825.....	.1476	.1058	.1506	.0921	.0631	.0541	.0477
2190.....	.1204	.0912	.1094	.0549	.0382	.0294	.0275
2555.....	.0975	.0762	.0805	.0331	.0219	.0117	.0133
2920.....	.0781	.0622	.0601	.0204	.0120	.0033	.0046
3285.....	.0615	.0498	.0453	.0128	.0065	.0007	.0008
3650.....	.0473	.0395	.0346	.0082	.0035	.0001	.0000
4015.....	.0353	.0314	.0267	.0054	.0019	.0000	.0000
4380.....	.0255	.0251	.0208	.0037	.0011	.0000	.0000
4745.....	.0177	.0204	.0164	.0026	.0007	.0000	.0000
5110.....	.0117	.0171	.0130	.0019	.0004	.0000	.0000
5475.....	.0073	.0147	.0105	.0014	.0003	.0000	.0000
5840.....	.0045	.0127	.0084	.0010	.0002	.0000	.0000
6205.....	.0028	.0109	.0067	.0008	.0002	.0000	.0000
6570.....	.0018	.0094	.0054	.0006	.0001	.0000	.0000
6935.....	.0011	.0081	.0043	.0004	.0001	.0000	.0000
7300.....	.0007	.0070	.0035	.0003	.0001	.0000	.0000
7665.....	.0004	.0061	.0028	.0002	.0000	.0000	.0000
8030.....	.0003	.0052	.0022	.0002	.0000	.0000	.0000
8395.....	.0002	.0045	.0018	.0001	.0000	.0000	.0000
8760.....	.0001	.0039	.0014	.0001	.0000	.0000	.0000
9125.....	.0001	.0034	.0012	.0001	.0000	.0000	.0000

No trend was assumed in the admission rates through time. It was assumed that the admissions in each year were made uniformly throughout each calendar year. The fraction of each year's admissions still confined on October 11, 1985 was estimated by applying the appropriate fractions from Tables 6-8. This was done as follows: All the estimated admissions on October 11 were counted. For each of the 30 days prior to October 11, the number of admissions still confined on October 11 was estimated by multiplying the estimated number of admissions times the appropriate "proportion of residents still resident." Similar calculations were made for the estimated number of admissions in monthly intervals for the prior 59 months and then in yearly intervals for the prior 10 years.

In general, the resulting estimates of the number of nursing home residents were slightly below the actual as tabulated from the NNHS. The discharge rates were then adjusted downward by applying a constant factor (producing higher proportions of admissions still resident at each duration, and thus longer stays) until the estimated residents matched the tabulated. The results of these calculations are shown in Tables 9-11 for the three sets of utilization data.

This adjustment added several percentage points to the proportion still resident at each duration. For example, compare, for admissions between ages 75 and 84, the proportions still resident at 1 year and at 5 years after admission for total (male and female) insurable stays under the benefit period concept (Tables 8 and 11). Before adjustment, the proportions are 33 percent and 6 percent still resident after 1 year and 5 years, respectively; after adjustment, the proportions are 36 percent and 8 percent, respectively. The longer the stay, the greater the relative adjustment, because the adjustment factor was applied to the rates of discharge between intervals (that is, the rates calculated from the raw data). Thus, the adjusted proportions still resident at each succeeding interval become progressively greater.

#### *D. Continuance Tables and Average Length-of-Stay*

For pricing, the distribution of days by length-of-stay is more important than the distribution of residents by length-of-stay. The number of days in each interval was estimated as the average number of residents in the life table (that is, the average of the  $l_x$  at the beginning and at the end of the interval, taking into account that discharges can only occur at integral days) times the number of days in the interval. The number of days above each threshold was then calculated by summing from the end of the life table

TABLE 9  
 PROPORTION OF ADMISSIONS STILL RESIDENT AT THE END OF THE PERIOD SHOWN;  
 ALL STAYS; STAY CONCEPT; ADJUSTED TO MATCH 1985 NNHS RESIDENTS

Days from Admission	Age at Admission						
	<45	45-54	55-64	65-74	75-84	85-94	95+
Males							
0.....	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
10.....	.9004	.8739	.9250	.8913	.8797	.8867	.8983
20.....	.8230	.7932	.8391	.8263	.7812	.7864	.8146
30.....	.7766	.7347	.7826	.7536	.6961	.7240	.7591
60.....	.6399	.5614	.6569	.6322	.5595	.6136	.5813
90.....	.5438	.4579	.5617	.5431	.4687	.5309	.4688
121.....	.4744	.3934	.4884	.4761	.4058	.4675	.3940
151.....	.4228	.3517	.4309	.4248	.3606	.4179	.3418
182.....	.3833	.3240	.3852	.3847	.3269	.3781	.3038
212.....	.3521	.3049	.3485	.3528	.3008	.3456	.2747
243.....	.3264	.2913	.3186	.3270	.2796	.3186	.2515
273.....	.3044	.2810	.2941	.3057	.2618	.2957	.2323
304.....	.2851	.2725	.2737	.2878	.2463	.2760	.2159
334.....	.2676	.2647	.2566	.2725	.2325	.2589	.2018
365.....	.2515	.2572	.2419	.2592	.2198	.2437	.1895
547.....	.1788	.2060	.1804	.2030	.1600	.1792	.1447
730.....	.1294	.1567	.1446	.1656	.1178	.1399	.1211
912.....	.0978	.1219	.1264	.1357	.0827	.1065	.0904
1095.....	.0868	.0938	.1128	.1088	.0591	.0761	.0536
1277.....	.0848	.0748	.0945	.0879	.0467	.0554	.0295
1460.....	.0835	.0579	.0719	.0755	.0388	.0417	.0203
1642.....	.0767	.0429	.0548	.0686	.0318	.0293	.0186
1825.....	.0713	.0320	.0463	.0553	.0265	.0207	.0183
2190.....	.0522	.0264	.0301	.0248	.0131	.0088	.0061
2555.....	.0364	.0229	.0212	.0120	.0056	.0030	.0031
2920.....	.0249	.0206	.0156	.0062	.0022	.0008	.0019
3285.....	.0171	.0191	.0117	.0034	.0008	.0002	.0014
3650.....	.0122	.0181	.0088	.0020	.0003	.0000	.0011
4015.....	.0092	.0166	.0064	.0012	.0001	.0000	.0009
4380.....	.0076	.0144	.0044	.0008	.0000	.0000	.0008
4745.....	.0065	.0113	.0028	.0006	.0000	.0000	.0007
5110.....	.0059	.0077	.0016	.0004	.0000	.0000	.0007
5475.....	.0054	.0044	.0008	.0003	.0000	.0000	.0007
5840.....	.0050	.0024	.0004	.0002	.0000	.0000	.0001
6205.....	.0046	.0014	.0002	.0002	.0000	.0000	.0000
6570.....	.0043	.0008	.0001	.0001	.0000	.0000	.0000
6935.....	.0039	.0004	.0000	.0001	.0000	.0000	.0000
7300.....	.0036	.0002	.0000	.0001	.0000	.0000	.0000
7665.....	.0034	.0001	.0000	.0000	.0000	.0000	.0000
8030.....	.0031	.0001	.0000	.0000	.0000	.0000	.0000
8395.....	.0029	.0000	.0000	.0000	.0000	.0000	.0000
8760.....	.0026	.0000	.0000	.0000	.0000	.0000	.0000
9125.....	.0024	.0000	.0000	.0000	.0000	.0000	.0000



TABLE 9—Continued

Days from Admission	Age at Admission						
	<45	45-54	55-64	65-74	75-84	85-94	95 +
Females							
0.....	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
10.....	.8924	.9497	.9283	.9203	.9127	.9045	.9148
20.....	.8435	.8743	.8552	.8283	.8263	.8275	.8681
30.....	.7926	.7973	.7866	.7525	.7615	.7739	.8240
60.....	.7162	.6208	.6616	.6228	.6447	.6636	.6960
90.....	.6495	.5094	.5771	.5378	.5625	.5858	.6053
121.....	.5906	.4359	.5186	.4805	.5032	.5296	.5393
151.....	.5382	.3851	.4771	.4409	.4593	.4880	.4898
182.....	.4912	.3486	.4468	.4128	.4260	.4563	.4516
212.....	.4491	.3213	.4238	.3920	.3998	.4314	.4212
243.....	.4114	.2999	.4054	.3759	.3786	.4110	.3960
273.....	.3776	.2824	.3897	.3624	.3609	.3937	.3745
304.....	.3476	.2671	.3756	.3504	.3456	.3783	.3555
334.....	.3211	.2533	.3622	.3389	.3320	.3643	.3382
365.....	.2980	.2404	.3490	.3273	.3197	.3512	.3224
547.....	.2144	.1730	.2751	.2535	.2607	.2822	.2468
730.....	.1679	.1363	.2213	.1937	.2179	.2238	.1843
912.....	.1254	.1230	.1773	.1548	.1826	.1770	.1240
1095.....	.1029	.1143	.1432	.1263	.1486	.1426	.0880
1277.....	.0942	.1067	.1274	.1075	.1192	.1158	.0727
1460.....	.0807	.0941	.1231	.0952	.0971	.0906	.0626
1642.....	.0521	.0651	.1155	.0835	.0782	.0683	.0523
1825.....	.0336	.0376	.1001	.0664	.0583	.0540	.0398
2190.....	.0266	.0273	.0729	.0384	.0359	.0257	.0277
2555.....	.0224	.0211	.0500	.0237	.0194	.0120	.0095
2920.....	.0198	.0172	.0332	.0153	.0095	.0051	.0021
3285.....	.0181	.0147	.0219	.0101	.0044	.0018	.0004
3650.....	.0169	.0131	.0147	.0067	.0020	.0005	.0001
4015.....	.0153	.0121	.0104	.0044	.0009	.0001	.0000
4380.....	.0129	.0113	.0079	.0028	.0005	.0000	.0000
4745.....	.0098	.0108	.0065	.0017	.0003	.0000	.0000
5110.....	.0063	.0104	.0056	.0010	.0002	.0000	.0000
5475.....	.0031	.0102	.0050	.0005	.0001	.0000	.0000
5840.....	.0015	.0099	.0045	.0002	.0001	.0000	.0000
6205.....	.0007	.0096	.0041	.0001	.0001	.0000	.0000
6570.....	.0004	.0094	.0037	.0001	.0001	.0000	.0000
6935.....	.0002	.0091	.0033	.0000	.0000	.0000	.0000
7300.....	.0001	.0089	.0030	.0000	.0000	.0000	.0000
7665.....	.0000	.0087	.0027	.0000	.0000	.0000	.0000
8030.....	.0000	.0085	.0024	.0000	.0000	.0000	.0000
8395.....	.0000	.0082	.0021	.0000	.0000	.0000	.0000
8760.....	.0000	.0080	.0019	.0000	.0000	.0000	.0000
9125.....	.0000	.0078	.0017	.0000	.0000	.0000	.0000

TABLE 9—Continued

Days from Admission	Age at Admission						Total
	< 45	45-54	55-64	65-74	75-84	85-94	
0.....	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
10.....	.8978	.9071	.9265	.9086	.9017	.8999	.9101
20.....	.8303	.8290	.8464	.8275	.8112	.8166	.8529
30.....	.7826	.7681	.7844	.7529	.7397	.7607	.8058
60.....	.6670	.5911	.6582	.6263	.6168	.6503	.6658
90.....	.5805	.4834	.5680	.5398	.5318	.5713	.5694
121.....	.5141	.4147	.5020	.4790	.4712	.5133	.5008
151.....	.4620	.3692	.4524	.4351	.4268	.4697	.4503
182.....	.4199	.3381	.4141	.4025	.3932	.4359	.4118
212.....	.3850	.3160	.3839	.3774	.3669	.4091	.3815
243.....	.3554	.2996	.3593	.3575	.3456	.3869	.3568
273.....	.3296	.2867	.3388	.3409	.3278	.3681	.3357
304.....	.3067	.2757	.3211	.3264	.3123	.3515	.3173
334.....	.2862	.2658	.3055	.3134	.2985	.3366	.3009
365.....	.2678	.2563	.2913	.3011	.2859	.3228	.2859
547.....	.1915	.1985	.2236	.2346	.2256	.2547	.2189
730.....	.1431	.1548	.1793	.1841	.1825	.2015	.1673
912.....	.1075	.1298	.1493	.1486	.1472	.1581	.1152
1095.....	.0915	.1086	.1258	.1205	.1169	.1243	.0802
1277.....	.0861	.0927	.1090	.1007	.0937	.0990	.0638
1460.....	.0775	.0760	.0958	.0882	.0766	.0770	.0545
1642.....	.0602	.0545	.0839	.0783	.0619	.0573	.0467
1825.....	.0482	.0370	.0725	.0626	.0476	.0443	.0360
2190.....	.0367	.0296	.0496	.0329	.0282	.0208	.0219
2555.....	.0290	.0248	.0344	.0189	.0146	.0095	.0082
2920.....	.0236	.0217	.0242	.0116	.0069	.0040	.0022
3285.....	.0197	.0194	.0172	.0074	.0030	.0014	.0006
3650.....	.0166	.0177	.0123	.0048	.0013	.0004	.0003
4015.....	.0140	.0163	.0088	.0031	.0006	.0001	.0002
4380.....	.0118	.0150	.0063	.0020	.0003	.0000	.0002
4745.....	.0098	.0137	.0045	.0013	.0002	.0000	.0000
5110.....	.0079	.0123	.0033	.0007	.0001	.0000	.0000
5475.....	.0061	.0108	.0024	.0004	.0001	.0000	.0000
5840.....	.0047	.0094	.0017	.0002	.0001	.0000	.0000
6205.....	.0036	.0082	.0012	.0001	.0000	.0000	.0000
6570.....	.0028	.0072	.0009	.0001	.0000	.0000	.0000
6935.....	.0022	.0063	.0006	.0000	.0000	.0000	.0000
7300.....	.0017	.0055	.0005	.0000	.0000	.0000	.0000
7665.....	.0013	.0048	.0003	.0000	.0000	.0000	.0000
8030.....	.0010	.0042	.0002	.0000	.0000	.0000	.0000
8395.....	.0008	.0037	.0002	.0000	.0000	.0000	.0000
8760.....	.0006	.0032	.0001	.0000	.0000	.0000	.0000
9125.....	.0005	.0028	.0001	.0000	.0000	.0000	.0000

TABLE 10

PROPORTION OF ADMISSIONS STILL RESIDENT AT THE END OF THE PERIOD SHOWN;  
ALL STAYS; BENEFIT PERIOD CONCEPT; ADJUSTED TO MATCH 1985 NNHS RESIDENTS

Days from Admission	Age at Admission						
	<45	45-54	55-64	65-74	75-84	85-94	95 +
Males							
0.....	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
10.....	.9212	.9279	.9508	.9053	.8932	.8941	.9297
20.....	.8743	.8716	.8770	.8522	.8090	.7973	.8272
30.....	.8379	.8633	.8301	.7872	.7340	.7335	.7858
60.....	.7468	.7176	.7250	.6710	.6109	.6402	.6137
90.....	.6734	.6218	.6501	.5878	.5268	.5678	.4969
121.....	.6143	.5570	.5954	.5272	.4675	.5107	.4149
151.....	.5665	.5124	.5544	.4825	.4245	.4651	.3557
182.....	.5278	.4809	.5229	.4491	.3922	.4282	.3118
212.....	.4963	.4581	.4976	.4237	.3672	.3981	.2785
243.....	.4707	.4408	.4767	.4041	.3469	.3732	.2527
273.....	.4495	.4270	.4586	.3885	.3299	.3525	.2323
304.....	.4316	.4152	.4423	.3756	.3150	.3351	.2160
334.....	.4162	.4043	.4271	.3643	.3015	.3203	.2027
365.....	.4024	.3935	.4125	.3540	.2890	.3075	.1919
547.....	.3294	.3183	.3290	.2937	.2243	.2508	.1583
730.....	.2635	.2473	.2751	.2406	.1714	.1987	.1437
912.....	.2292	.2169	.2604	.2105	.1246	.1427	.1052
1095.....	.2213	.1966	.2546	.1855	.0894	.0986	.0548
1277.....	.2200	.1679	.2301	.1549	.0689	.0719	.0327
1460.....	.2197	.1488	.1987	.1306	.0553	.0545	.0278
1642.....	.2188	.1444	.1818	.1180	.0436	.0398	.0270
1825.....	.2184	.1130	.1666	.1007	.0348	.0310	.0250
2190.....	.1672	.1008	.1339	.0497	.0236	.0160	.0055
2555.....	.1351	.0891	.1065	.0251	.0150	.0022	.0023
2920.....	.1132	.0777	.0837	.0130	.0090	.0002	.0013
3285.....	.0968	.0667	.0649	.0070	.0052	.0000	.0009
3650.....	.0831	.0560	.0495	.0039	.0030	.0000	.0006
4015.....	.0705	.0459	.0372	.0022	.0017	.0000	.0005
4380.....	.0583	.0365	.0274	.0013	.0010	.0000	.0005
4745.....	.0461	.0281	.0197	.0008	.0006	.0000	.0004
5110.....	.0342	.0208	.0138	.0006	.0004	.0000	.0004
5475.....	.0233	.0147	.0094	.0004	.0003	.0000	.0004
5840.....	.0159	.0105	.0065	.0003	.0002	.0000	.0000
6205.....	.0109	.0074	.0044	.0002	.0001	.0000	.0000
6570.....	.0074	.0053	.0030	.0001	.0001	.0000	.0000
6935.....	.0051	.0037	.0021	.0001	.0001	.0000	.0000
7300.....	.0035	.0026	.0014	.0001	.0001	.0000	.0000
7665.....	.0024	.0019	.0010	.0000	.0000	.0000	.0000
8030.....	.0016	.0013	.0007	.0000	.0000	.0000	.0000
8395.....	.0011	.0009	.0004	.0000	.0000	.0000	.0000
8760.....	.0007	.0007	.0003	.0000	.0000	.0000	.0000
9125.....	.0005	.0005	.0002	.0000	.0000	.0000	.0000

TABLE 10—Continued

Days from Admission	Age at Admission						
	< 45	45-54	55-64	65-74	75-84	85-94	95 +
Females							
0.....	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
10.....	.9285	.9794	.9304	.9272	.9368	.9223	.9201
20.....	.8669	.9076	.8556	.8468	.8659	.8536	.8759
30.....	.8356	.8509	.8189	.7860	.7979	.8047	.8284
60.....	.8044	.7017	.7072	.6719	.6965	.6951	.7546
90.....	.7685	.6075	.6299	.5943	.6233	.6188	.6890
121.....	.7300	.5463	.5756	.5407	.5697	.5648	.6310
151.....	.6908	.5055	.5372	.5031	.5295	.5257	.5801
182.....	.6526	.4775	.5098	.4765	.4989	.4970	.5358
212.....	.6166	.4574	.4899	.4572	.4750	.4753	.4973
243.....	.5835	.4420	.4751	.4428	.4558	.4582	.4638
273.....	.5541	.4291	.4636	.4317	.4398	.4442	.4345
304.....	.5283	.4172	.4539	.4225	.4260	.4320	.4086
334.....	.5062	.4053	.4452	.4144	.4139	.4208	.3856
365.....	.4875	.3931	.4367	.4068	.4028	.4102	.3650
547.....	.4261	.3153	.3845	.3564	.3478	.3475	.2769
730.....	.3637	.2694	.3443	.2957	.3028	.2874	.2196
912.....	.2748	.2545	.3044	.2467	.2642	.2392	.1737
1095.....	.2220	.2511	.2673	.2136	.2280	.2014	.1412
1277.....	.2091	.2413	.2490	.1869	.1946	.1649	.1157
1460.....	.1997	.2251	.2389	.1637	.1643	.1288	.0980
1642.....	.1688	.2082	.2233	.1471	.1367	.1007	.0886
1825.....	.1347	.1828	.2126	.1372	.1114	.0849	.0724
2190.....	.1196	.1509	.1740	.0977	.0714	.0501	.0574
2555.....	.1096	.1248	.1383	.0694	.0437	.0228	.0340
2920.....	.1027	.1041	.1081	.0493	.0259	.0081	.0115
3285.....	.0968	.0879	.0840	.0351	.0151	.0023	.0009
3650.....	.0872	.0756	.0657	.0252	.0089	.0005	.0001
4015.....	.0723	.0666	.0525	.0182	.0053	.0001	.0000
4380.....	.0525	.0604	.0433	.0133	.0033	.0000	.0000
4745.....	.0311	.0562	.0373	.0098	.0021	.0000	.0000
5110.....	.0133	.0533	.0335	.0074	.0015	.0000	.0000
5475.....	.0030	.0512	.0309	.0056	.0011	.0000	.0000
5840.....	.0007	.0492	.0285	.0043	.0008	.0000	.0000
6205.....	.0002	.0473	.0263	.0033	.0006	.0000	.0000
6570.....	.0000	.0455	.0242	.0025	.0004	.0000	.0000
6935.....	.0000	.0437	.0223	.0019	.0003	.0000	.0000
7300.....	.0000	.0420	.0206	.0015	.0002	.0000	.0000
7665.....	.0000	.0403	.0190	.0011	.0002	.0000	.0000
8030.....	.0000	.0388	.0175	.0009	.0001	.0000	.0000
8395.....	.0000	.0372	.0162	.0007	.0001	.0000	.0000
8760.....	.0000	.0358	.0149	.0005	.0001	.0000	.0000
9125.....	.0000	.0344	.0138	.0004	.0001	.0000	.0000

TABLE 10—Continued

Days from Admission	Age at Admission						
	< 45	45-54	55-64	65-74	75-84	85-94	95 +
	Total						
0.....	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
10.....	.9234	.9488	.9414	.9183	.9215	.9144	.9228
20.....	.8727	.8864	.8672	.8489	.8459	.8374	.8621
30.....	.8459	.8623	.8258	.7868	.7755	.7843	.8193
60.....	.7762	.7147	.7173	.6717	.6672	.6790	.7212
90.....	.7155	.6192	.6412	.5920	.5904	.6038	.6413
121.....	.6628	.5557	.5868	.5359	.5347	.5492	.5759
151.....	.6173	.5125	.5473	.4957	.4936	.5086	.5219
182.....	.5782	.4823	.5180	.4665	.4624	.4779	.4772
212.....	.5448	.4604	.4957	.4450	.4380	.4541	.4398
243.....	.5162	.4439	.4781	.4286	.4184	.4351	.4083
273.....	.4918	.4304	.4634	.4158	.4021	.4193	.3815
304.....	.4709	.4184	.4505	.4052	.3880	.4058	.3583
334.....	.4528	.4071	.4386	.3958	.3753	.3936	.3380
365.....	.4371	.3957	.4270	.3871	.3638	.3824	.3202
547.....	.3660	.3201	.3573	.3320	.3048	.3217	.2467
730.....	.2984	.2609	.3082	.2739	.2563	.2638	.1998
912.....	.2410	.2369	.2798	.2325	.2144	.2127	.1553
1095.....	.2135	.2207	.2566	.2027	.1781	.1719	.1186
1277.....	.2073	.1962	.2348	.1745	.1490	.1377	.0952
1460.....	.2012	.1774	.2145	.1509	.1246	.1071	.0825
1642.....	.1820	.1699	.1989	.1359	.1025	.0828	.0762
1825.....	.1600	.1369	.1872	.1227	.0831	.0690	.0624
2190.....	.1329	.1183	.1521	.0781	.0539	.0396	.0381
2555.....	.1157	.1015	.1208	.0505	.0332	.0169	.0200
2920.....	.1031	.0865	.0945	.0333	.0198	.0054	.0079
3285.....	.0920	.0735	.0733	.0223	.0116	.0013	.0018
3650.....	.0806	.0623	.0567	.0152	.0067	.0003	.0001
4015.....	.0676	.0529	.0442	.0105	.0040	.0001	.0000
4380.....	.0529	.0450	.0349	.0074	.0024	.0000	.0000
4745.....	.0375	.0386	.0282	.0053	.0016	.0000	.0000
5110.....	.0230	.0334	.0235	.0038	.0011	.0000	.0000
5475.....	.0115	.0293	.0202	.0028	.0008	.0000	.0000
5840.....	.0057	.0257	.0174	.0021	.0006	.0000	.0000
6205.....	.0029	.0225	.0150	.0015	.0004	.0000	.0000
6570.....	.0014	.0197	.0129	.0011	.0003	.0000	.0000
6935.....	.0007	.0173	.0111	.0008	.0002	.0000	.0000
7300.....	.0004	.0151	.0096	.0006	.0002	.0000	.0000
7665.....	.0002	.0133	.0082	.0004	.0001	.0000	.0000
8030.....	.0001	.0116	.0071	.0003	.0001	.0000	.0000
8395.....	.0000	.0102	.0061	.0002	.0001	.0000	.0000
8760.....	.0000	.0089	.0053	.0002	.0000	.0000	.0000
9125.....	.0000	.0078	.0045	.0001	.0000	.0000	.0000

TABLE 11

PROPORTION OF ADMISSIONS STILL RESIDENT AT THE END OF THE PERIOD SHOWN;  
INSURABLE STAYS; BENEFIT PERIOD CONCEPT; ADJUSTED TO MATCH 1985 NNHS RESIDENTS

Days from Admission	Age at Admission						
	<45	45-54	55-64	65-74	75-84	85-94	95+
Males							
0.....	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
10.....	.8701	.9103	.9456	.9016	.8915	.8927	.9348
20.....	.8456	.8408	.8640	.8477	.8077	.7950	.8519
30.....	.8160	.8306	.8122	.7785	.7319	.7350	.8088
60.....	.6995	.7017	.6973	.6570	.6107	.6362	.6307
90.....	.6130	.6175	.6163	.5712	.5273	.5608	.5074
121.....	.5482	.5613	.5576	.5095	.4682	.5022	.4195
151.....	.4992	.5233	.5137	.4645	.4250	.4559	.3552
182.....	.4619	.4970	.4799	.4311	.3925	.4190	.3070
212.....	.4333	.4783	.4528	.4061	.3671	.3890	.2702
243.....	.4110	.4641	.4303	.3871	.3465	.3645	.2417
273.....	.3931	.4525	.4109	.3720	.3291	.3442	.2191
304.....	.3782	.4419	.3935	.3597	.3139	.3271	.2011
334.....	.3650	.4312	.3774	.3490	.3001	.3127	.1866
365.....	.3529	.4198	.3621	.3392	.2873	.3002	.1749
547.....	.2856	.3259	.2784	.2808	.2213	.2454	.1405
730.....	.2366	.2355	.2271	.2270	.1670	.1946	.1281
912.....	.2163	.1995	.2141	.1957	.1200	.1384	.0940
1095.....	.2121	.1789	.2051	.1697	.0852	.0938	.0487
1277.....	.2113	.1541	.1745	.1378	.0648	.0666	.0290
1460.....	.2110	.1409	.1456	.1126	.0514	.0496	.0247
1642.....	.2102	.1377	.1370	.0997	.0396	.0359	.0240
1825.....	.2100	.0984	.1356	.0842	.0319	.0280	.0221
2190.....	.1647	.0849	.1039	.0410	.0211	.0117	.0049
2555.....	.1293	.0715	.0806	.0203	.0132	.0009	.0020
2920.....	.1012	.0589	.0627	.0102	.0079	.0001	.0011
3285.....	.0786	.0474	.0487	.0053	.0045	.0000	.0008
3650.....	.0604	.0373	.0373	.0029	.0026	.0000	.0006
4015.....	.0457	.0287	.0280	.0016	.0014	.0000	.0005
4380.....	.0338	.0217	.0203	.0009	.0008	.0000	.0004
4745.....	.0245	.0160	.0141	.0006	.0005	.0000	.0004
5110.....	.0172	.0116	.0092	.0004	.0003	.0000	.0003
5475.....	.0117	.0083	.0056	.0002	.0002	.0000	.0003
5840.....	.0080	.0059	.0034	.0002	.0001	.0000	.0000
6205.....	.0054	.0042	.0021	.0001	.0001	.0000	.0000
6570.....	.0037	.0030	.0012	.0001	.0000	.0000	.0000
6935.....	.0025	.0021	.0008	.0001	.0000	.0000	.0000
7300.....	.0017	.0015	.0005	.0000	.0000	.0000	.0000
7665.....	.0012	.0011	.0003	.0000	.0000	.0000	.0000
8030.....	.0008	.0008	.0002	.0000	.0000	.0000	.0000
8395.....	.0005	.0006	.0001	.0000	.0000	.0000	.0000
8760.....	.0004	.0004	.0001	.0000	.0000	.0000	.0000
9125.....	.0003	.0003	.0000	.0000	.0000	.0000	.0000

TABLE 11—Continued

Days from Admission	Age at Admission						
	< 45	45-54	55-64	65-74	75-84	85-94	95 +
Females							
0.....	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
10.....	.8969	.9749	.9289	.9323	.9374	.9206	.9162
20.....	.8084	.9193	.8520	.8509	.8641	.8522	.8697
30.....	.7636	.8625	.8185	.7869	.7952	.8033	.8200
60.....	.7414	.7078	.6994	.6676	.6912	.6931	.7476
90.....	.7215	.6113	.6189	.5871	.6167	.6165	.6821
121.....	.7034	.5500	.5637	.5317	.5622	.5622	.6238
151.....	.6866	.5108	.5257	.4932	.5217	.5231	.5724
182.....	.6709	.4860	.4994	.4660	.4909	.4943	.5277
212.....	.6557	.4683	.4807	.4464	.4669	.4725	.4890
243.....	.6410	.4555	.4672	.4320	.4476	.4554	.4555
273.....	.6263	.4461	.4573	.4209	.4317	.4413	.4264
304.....	.6117	.4393	.4491	.4119	.4181	.4291	.4007
334.....	.5971	.4342	.4415	.4040	.4060	.4179	.3779
365.....	.5828	.4293	.4335	.3966	.3951	.4072	.3574
547.....	.5251	.3627	.3737	.3472	.3401	.3450	.2690
730.....	.5068	.2947	.3237	.2854	.2947	.2870	.2146
912.....	.4319	.2685	.2827	.2335	.2560	.2411	.1737
1095.....	.3336	.2634	.2481	.1996	.2195	.2049	.1425
1277.....	.2983	.2492	.2322	.1755	.1862	.1695	.1164
1460.....	.2805	.2244	.2256	.1554	.1570	.1323	.0983
1642.....	.2298	.2159	.2211	.1400	.1306	.1023	.0890
1825.....	.1753	.2144	.2199	.1303	.1068	.0866	.0727
2190.....	.1543	.1901	.1590	.0920	.0675	.0525	.0576
2555.....	.1347	.1631	.1178	.0643	.0406	.0255	.0342
2920.....	.1157	.1372	.0894	.0448	.0237	.0100	.0115
3285.....	.0972	.1145	.0695	.0314	.0136	.0032	.0009
3650.....	.0790	.0962	.0555	.0223	.0078	.0009	.0001
4015.....	.0618	.0825	.0455	.0161	.0046	.0002	.0000
4380.....	.0459	.0731	.0384	.0119	.0029	.0001	.0000
4745.....	.0321	.0669	.0334	.0091	.0019	.0000	.0000
5110.....	.0208	.0626	.0300	.0072	.0013	.0000	.0000
5475.....	.0123	.0596	.0277	.0059	.0010	.0000	.0000
5840.....	.0073	.0567	.0256	.0049	.0007	.0000	.0000
6205.....	.0043	.0540	.0236	.0040	.0006	.0000	.0000
6570.....	.0026	.0514	.0218	.0033	.0004	.0000	.0000
6935.....	.0015	.0490	.0202	.0027	.0003	.0000	.0000
7300.....	.0009	.0466	.0186	.0022	.0002	.0000	.0000
7665.....	.0005	.0444	.0172	.0018	.0002	.0000	.0000
8030.....	.0003	.0423	.0159	.0015	.0001	.0000	.0000
8395.....	.0002	.0402	.0147	.0012	.0001	.0000	.0000
8760.....	.0001	.0383	.0136	.0010	.0001	.0000	.0000
9125.....	.0001	.0365	.0125	.0008	.0001	.0000	.0000

TABLE 11—Continued

Days from Admission	Age at Admission						
	<45	45-54	55-64	65-74	75-84	85-94	95+
	Total						
0.....	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
10.....	.8816	.9375	.9378	.9200	.9212	.9127	.9216
20.....	.8312	.8741	.8584	.8496	.8441	.8358	.8647
30.....	.8033	.8487	.8154	.7839	.7728	.7838	.8197
60.....	.7261	.7092	.6983	.6635	.6633	.6765	.7206
90.....	.6662	.6197	.6177	.5810	.5858	.6003	.6391
121.....	.6195	.5610	.5610	.5234	.5298	.5451	.5719
151.....	.5828	.5221	.5206	.4824	.4883	.5044	.5162
182.....	.5538	.4960	.4910	.4529	.4570	.4736	.4700
212.....	.5305	.4774	.4688	.4313	.4325	.4498	.4316
243.....	.5114	.4639	.4515	.4151	.4128	.4309	.3993
273.....	.4950	.4541	.4371	.4025	.3965	.4152	.3720
304.....	.4805	.4456	.4245	.3922	.3823	.4017	.3484
334.....	.4669	.4370	.4126	.3832	.3697	.3897	.3279
365.....	.4539	.4276	.4008	.3747	.3581	.3785	.3099
547.....	.3847	.3431	.3256	.3209	.2989	.3186	.2364
730.....	.3396	.2626	.2722	.2619	.2497	.2624	.1925
912.....	.2988	.2301	.2452	.2184	.2076	.2126	.1522
1095.....	.2631	.2125	.2232	.1878	.1710	.1725	.1169
1277.....	.2509	.1880	.2005	.1609	.1421	.1388	.0935
1460.....	.2389	.1710	.1829	.1389	.1185	.1077	.0810
1642.....	.2068	.1664	.1770	.1246	.0970	.0823	.0748
1825.....	.1725	.1273	.1760	.1120	.0791	.0688	.0612
2190.....	.1432	.1112	.1316	.0704	.0504	.0399	.0374
2555.....	.1182	.0944	.0997	.0447	.0306	.0177	.0196
2920.....	.0965	.0783	.0764	.0288	.0179	.0061	.0078
3285.....	.0776	.0640	.0591	.0189	.0103	.0017	.0018
3650.....	.0611	.0519	.0463	.0127	.0059	.0004	.0001
4015.....	.0469	.0420	.0366	.0087	.0035	.0001	.0000
4380.....	.0349	.0343	.0292	.0062	.0021	.0000	.0000
4745.....	.0250	.0284	.0235	.0045	.0013	.0000	.0000
5110.....	.0172	.0241	.0190	.0033	.0009	.0000	.0000
5475.....	.0112	.0211	.0156	.0026	.0007	.0000	.0000
5840.....	.0073	.0184	.0127	.0020	.0005	.0000	.0000
6205.....	.0048	.0161	.0104	.0015	.0004	.0000	.0000
6570.....	.0031	.0140	.0085	.0012	.0003	.0000	.0000
6935.....	.0020	.0123	.0070	.0009	.0002	.0000	.0000
7300.....	.0013	.0107	.0057	.0007	.0001	.0000	.0000
7665.....	.0009	.0094	.0047	.0005	.0001	.0000	.0000
8030.....	.0006	.0082	.0038	.0004	.0001	.0000	.0000
8395.....	.0004	.0071	.0031	.0003	.0001	.0000	.0000
8760.....	.0002	.0062	.0026	.0002	.0000	.0000	.0000
9125.....	.0002	.0055	.0021	.0002	.0000	.0000	.0000



back to the interval. (This is equivalent to the  $T_x$  column in a life table.) The results of these calculations are shown in Tables 12–17.

The average length-of-stay was calculated from these tables in a manner similar to that for life expectancy. The total number of days after the admission date (from the radix of 1.0 admissions) is the average length-of-stay. The averages derived in this manner are shown at the bottom of Tables 12–17. The averages for both the unadjusted and the adjusted discharge rates are shown. The adjusted averages (Tables 12–14) are significantly longer than the unadjusted (Tables 15–17). For example, compare, for admissions between 75 and 84, the average lengths-of-stay for total (male and female) for insurable stays under the benefit period concept. Before adjustment it is 458 days, and after adjustment it is 521 days.

The authors believe that the adjusted continuance tables and average lengths-of-stay are more accurate than the unadjusted, not only because the adjusted have been controlled to the reliable counts of residents on the survey date, but also because of the questionable reliability and the sparsity of data on long stays.

The average lengths-of-stay based on the adjusted continuance tables were graduated in the same manner as the admission rates, except that the graduated number of admissions was used as the weight in the average length-of-stay graduation and the ungraduated at each age of an interval was taken as the average length-of-stay over the whole interval. The graduated average lengths-of-stay are shown in Tables 1–3. The graduation process preserved the total number of days for all admissions.

TABLE 12  
 PROPORTION OF DAYS AFTER THE PERIOD SHOWN;  
 ALL STAYS; STAY CONCEPT; UNADJUSTED 1985 NNHS EXPERIENCE

Days from Admission	Age at Admission						
	< 45	45-54	55-64	65-74	75-84	85-94	95 +
Males							
0.....	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
10.....	.9594	.9559	.9566	.9583	.9432	.9500	.9379
20.....	.9267	.9216	.9216	.9249	.8997	.9118	.8884
30.....	.8972	.8905	.8904	.8950	.8618	.8781	.8444
60.....	.8209	.8154	.8094	.8188	.7699	.7913	.7362
90.....	.7605	.7608	.7442	.7574	.6992	.7204	.6580
121.....	.7093	.7163	.6887	.7046	.6400	.6590	.5954
151.....	.6672	.6800	.6435	.6610	.5918	.6082	.5463
182.....	.6293	.6469	.6035	.6219	.5485	.5624	.5034
212.....	.5967	.6178	.5698	.5882	.5112	.5233	.4674
243.....	.5663	.5896	.5389	.5570	.4764	.4870	.4344
273.....	.5396	.5637	.5122	.5294	.4455	.4553	.4058
304.....	.5143	.5381	.4871	.5031	.4162	.4254	.3791
334.....	.4917	.5143	.4649	.4795	.3899	.3989	.3554
365.....	.4702	.4905	.4437	.4567	.3646	.3736	.3329
547.....	.3726	.3702	.3446	.3462	.2474	.2566	.2277
730.....	.3082	.2830	.2733	.2625	.1681	.1738	.1470
912.....	.2653	.2210	.2168	.1979	.1163	.1142	.0861
1095.....	.2322	.1761	.1678	.1482	.0832	.0737	.0495
1277.....	.2018	.1436	.1271	.1110	.0606	.0475	.0321
1460.....	.1717	.1193	.0963	.0815	.0430	.0294	.0232
1642.....	.1436	.1025	.0751	.0563	.0293	.0174	.0166
1825.....	.1184	.0910	.0591	.0350	.0187	.0098	.0102
2190.....	.0782	.0741	.0366	.0117	.0057	.0022	.0030
2555.....	.0525	.0606	.0236	.0045	.0014	.0003	.0017
2920.....	.0369	.0491	.0153	.0020	.0003	.0000	.0011
3285.....	.0275	.0388	.0097	.0010	.0000	.0000	.0008
3650.....	.0218	.0295	.0059	.0005	.0000	.0000	.0006
4015.....	.0180	.0209	.0034	.0003	.0000	.0000	.0005
4380.....	.0153	.0135	.0017	.0002	.0000	.0000	.0003
4745.....	.0131	.0077	.0008	.0001	.0000	.0000	.0002
5110.....	.0113	.0038	.0003	.0001	.0000	.0000	.0001
5475.....	.0096	.0017	.0001	.0001	.0000	.0000	.0000
5840.....	.0082	.0007	.0000	.0000	.0000	.0000	.0000
6205.....	.0069	.0003	.0000	.0000	.0000	.0000	.0000
6570.....	.0057	.0001	.0000	.0000	.0000	.0000	.0000
6935.....	.0046	.0001	.0000	.0000	.0000	.0000	.0000
7300.....	.0036	.0000	.0000	.0000	.0000	.0000	.0000
7665.....	.0027	.0000	.0000	.0000	.0000	.0000	.0000
8030.....	.0019	.0000	.0000	.0000	.0000	.0000	.0000
8395.....	.0012	.0000	.0000	.0000	.0000	.0000	.0000
8760.....	.0006	.0000	.0000	.0000	.0000	.0000	.0000
9125.....	.0000	.0000	.0000	.0000	.0000	.0000	.0000
ALOS*.....	251	227	242	245	179	205	165

\*Average length-of-stay.

TABLE 12—Continued

Days from Admission	Age at Admission						
	<45	45-54	55-64	65-74	75-84	85-94	95 +
	Females						
0.....	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
10.....	.9648	.9572	.9707	.9644	.9658	.9670	.9618
20.....	.9360	.9209	.9465	.9358	.9385	.9405	.9302
30.....	.9088	.8894	.9249	.9109	.9142	.9166	.9007
60.....	.8361	.8117	.8694	.8477	.8515	.8539	.8233
90.....	.7721	.7541	.8242	.7971	.8001	.8016	.7601
121.....	.7138	.7070	.7843	.7529	.7550	.7549	.7048
151.....	.6638	.6690	.7501	.7154	.7166	.7148	.6581
182.....	.6179	.6351	.7181	.6802	.6811	.6771	.6151
212.....	.5784	.6058	.6893	.6486	.6496	.6435	.5774
243.....	.5420	.5784	.6614	.6179	.6195	.6109	.5416
273.....	.5105	.5541	.6359	.5896	.5921	.5812	.5094
304.....	.4813	.5306	.6107	.5617	.5655	.5521	.4784
334.....	.4558	.5095	.5874	.5358	.5411	.5253	.4503
365.....	.4320	.4891	.5645	.5102	.5171	.4989	.4230
547.....	.3257	.3947	.4512	.3839	.3964	.3669	.2920
730.....	.2500	.3301	.3665	.2942	.3014	.2673	.1988
912.....	.1969	.2782	.3026	.2292	.2259	.1940	.1390
1095.....	.1585	.2311	.2543	.1795	.1663	.1388	.1026
1277.....	.1264	.1883	.2158	.1405	.1214	.0969	.0769
1460.....	.0980	.1497	.1803	.1077	.0870	.0652	.0559
1642.....	.0784	.1210	.1468	.0797	.0608	.0428	.0388
1825.....	.0679	.1055	.1173	.0571	.0415	.0268	.0258
2190.....	.0538	.0879	.0732	.0291	.0180	.0085	.0087
2555.....	.0431	.0759	.0453	.0157	.0067	.0024	.0011
2920.....	.0342	.0672	.0289	.0087	.0022	.0005	.0000
3285.....	.0266	.0603	.0196	.0048	.0007	.0001	.0000
3650.....	.0197	.0545	.0142	.0026	.0002	.0000	.0000
4015.....	.0135	.0495	.0110	.0014	.0001	.0000	.0000
4380.....	.0083	.0449	.0089	.0007	.0000	.0000	.0000
4745.....	.0043	.0406	.0074	.0003	.0000	.0000	.0000
5110.....	.0018	.0365	.0062	.0001	.0000	.0000	.0000
5475.....	.0006	.0326	.0052	.0000	.0000	.0000	.0000
5840.....	.0002	.0289	.0043	.0000	.0000	.0000	.0000
6205.....	.0001	.0252	.0035	.0000	.0000	.0000	.0000
6570.....	.0000	.0217	.0028	.0000	.0000	.0000	.0000
6935.....	.0000	.0183	.0022	.0000	.0000	.0000	.0000
7300.....	.0000	.0150	.0017	.0000	.0000	.0000	.0000
7665.....	.0000	.0118	.0013	.0000	.0000	.0000	.0000
8030.....	.0000	.0087	.0009	.0000	.0000	.0000	.0000
8395.....	.0000	.0057	.0006	.0000	.0000	.0000	.0000
8760.....	.0000	.0028	.0003	.0000	.0000	.0000	.0000
9125.....	.0000	.0000	.0000	.0000	.0000	.0000	.0000
ALOS*.....	287	246	356	292	304	312	271

\*Average length-of-stay.

TABLE 12—Continued

Days from Admission	Age at Admission						
	<45	45-54	55-64	65-74	75-84	85-94	95+
	Total						
0.....	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
10.....	.9609	.9585	.9641	.9624	.9600	.9635	.9574
20.....	.9293	.9249	.9350	.9322	.9286	.9346	.9226
30.....	.9003	.8949	.9089	.9056	.9008	.9086	.8904
60.....	.8243	.8215	.8417	.8380	.8304	.8408	.8074
90.....	.7619	.7676	.7873	.7837	.7738	.7846	.7414
121.....	.7074	.7236	.7402	.7367	.7247	.7348	.6847
151.....	.6619	.6880	.7009	.6971	.6836	.6923	.6377
182.....	.6207	.6557	.6651	.6605	.6457	.6528	.5949
212.....	.5852	.6274	.6339	.6282	.6125	.6179	.5576
243.....	.5523	.6004	.6044	.5973	.5809	.5844	.5225
273.....	.5235	.5758	.5781	.5693	.5525	.5541	.4913
304.....	.4964	.5517	.5529	.5420	.5250	.5247	.4613
334.....	.4725	.5295	.5300	.5169	.4999	.4979	.4343
365.....	.4499	.5076	.5078	.4923	.4754	.4716	.4081
547.....	.3476	.4000	.4009	.3718	.3551	.3423	.2833
730.....	.2780	.3227	.3225	.2839	.2644	.2459	.1930
912.....	.2307	.2641	.2620	.2185	.1954	.1753	.1332
1095.....	.1953	.2169	.2136	.1684	.1433	.1233	.0965
1277.....	.1645	.1791	.1743	.1297	.1047	.0850	.0716
1460.....	.1362	.1485	.1410	.0978	.0750	.0564	.0520
1642.....	.1137	.1266	.1129	.0706	.0523	.0365	.0358
1825.....	.0976	.1131	.0892	.0482	.0353	.0225	.0232
2190.....	.0735	.0947	.0551	.0219	.0144	.0069	.0075
2555.....	.0564	.0806	.0345	.0110	.0050	.0019	.0012
2920.....	.0437	.0692	.0218	.0058	.0016	.0004	.0001
3285.....	.0338	.0594	.0139	.0032	.0005	.0001	.0000
3650.....	.0260	.0508	.0089	.0017	.0001	.0000	.0000
4015.....	.0197	.0432	.0057	.0009	.0001	.0000	.0000
4380.....	.0146	.0363	.0037	.0005	.0000	.0000	.0000
4745.....	.0107	.0302	.0024	.0002	.0000	.0000	.0000
5110.....	.0076	.0248	.0015	.0001	.0000	.0000	.0000
5475.....	.0054	.0201	.0010	.0000	.0000	.0000	.0000
5840.....	.0038	.0162	.0006	.0000	.0000	.0000	.0000
6205.....	.0026	.0130	.0004	.0000	.0000	.0000	.0000
6570.....	.0018	.0102	.0002	.0000	.0000	.0000	.0000
6935.....	.0012	.0079	.0002	.0000	.0000	.0000	.0000
7300.....	.0008	.0060	.0001	.0000	.0000	.0000	.0000
7665.....	.0005	.0043	.0001	.0000	.0000	.0000	.0000
8030.....	.0003	.0029	.0000	.0000	.0000	.0000	.0000
8395.....	.0002	.0018	.0000	.0000	.0000	.0000	.0000
8760.....	.0001	.0008	.0000	.0000	.0000	.0000	.0000
9125.....	.0000	.0000	.0000	.0000	.0000	.0000	.0000
ALOS*.....	260	247	292	274	258	282	243

\*Average length-of-stay.

TABLE 13  
 PROPORTION OF DAYS AFTER THE PERIOD SHOWN;  
 ALL STAYS; BENEFIT PERIOD CONCEPT; UNADJUSTED 1985 NNHS EXPERIENCE

Days from Admission	Age at Admission						
	<45	45-54	55-64	65-74	75-84	85-94	95 +
Males							
0.....	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
10.....	.9873	.9835	.9849	.9775	.9673	.9685	.9553
20.....	.9763	.9696	.9722	.9589	.9411	.9436	.9186
30.....	.9660	.9562	.9605	.9417	.9173	.9212	.8855
60.....	.9375	.9198	.9285	.8960	.8561	.8612	.7998
90.....	.9121	.8895	.9005	.8570	.8052	.8090	.7332
121.....	.8886	.8622	.8746	.8218	.7597	.7613	.6778
151.....	.8679	.8384	.8516	.7912	.7206	.7200	.6332
182.....	.8482	.8158	.8294	.7622	.6839	.6812	.5938
212.....	.8304	.7951	.8092	.7360	.6511	.6467	.5605
243.....	.8132	.7748	.7894	.7105	.6193	.6136	.5298
273.....	.7974	.7559	.7710	.6870	.5904	.5837	.5028
304.....	.7819	.7369	.7527	.6636	.5620	.5545	.4773
334.....	.7674	.7192	.7357	.6418	.5358	.5277	.4544
365.....	.7530	.7013	.7188	.6199	.5101	.5013	.4321
547.....	.6784	.6083	.6325	.5053	.3808	.3656	.3199
730.....	.6191	.5366	.5637	.4124	.2827	.2569	.2217
912.....	.5712	.4792	.5034	.3357	.2117	.1771	.1405
1095.....	.5271	.4275	.4446	.2680	.1620	.1228	.0926
1277.....	.4840	.3828	.3896	.2110	.1263	.0859	.0687
1460.....	.4409	.3447	.3418	.1641	.0986	.0588	.0521
1642.....	.3981	.3095	.3002	.1239	.0771	.0393	.0370
1825.....	.3552	.2775	.2616	.0880	.0603	.0251	.0223
2190.....	.2806	.2273	.1966	.0413	.0359	.0067	.0065
2555.....	.2236	.1833	.1457	.0201	.0205	.0004	.0036
2920.....	.1776	.1451	.1064	.0102	.0114	.0000	.0025
3285.....	.1394	.1124	.0764	.0054	.0063	.0000	.0018
3650.....	.1071	.0851	.0539	.0030	.0035	.0000	.0014
4015.....	.0800	.0629	.0374	.0018	.0021	.0000	.0010
4380.....	.0576	.0452	.0254	.0011	.0013	.0000	.0007
4745.....	.0398	.0317	.0170	.0007	.0008	.0000	.0005
5110.....	.0265	.0218	.0112	.0004	.0005	.0000	.0003
5475.....	.0172	.0148	.0073	.0003	.0004	.0000	.0001
5840.....	.0112	.0100	.0047	.0002	.0002	.0000	.0000
6205.....	.0072	.0067	.0031	.0001	.0002	.0000	.0000
6570.....	.0047	.0045	.0020	.0001	.0001	.0000	.0000
6935.....	.0030	.0030	.0013	.0000	.0001	.0000	.0000
7300.....	.0019	.0019	.0008	.0000	.0000	.0000	.0000
7665.....	.0011	.0012	.0005	.0000	.0000	.0000	.0000
8030.....	.0006	.0007	.0003	.0000	.0000	.0000	.0000
8395.....	.0003	.0004	.0001	.0000	.0000	.0000	.0000
8760.....	.0001	.0002	.0001	.0000	.0000	.0000	.0000
9125.....	.0000	.0000	.0000	.0000	.0000	.0000	.0000
ALOS* .....	813	636	711	463	317	331	236

\*Average length-of-stay.

TABLE 13—Continued

Days from Admission	Age at Admission						
	< 45	45-54	55-64	65-74	75-84	85-94	95+
Females							
0.....	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
10.....	.9869	.9879	.9881	.9825	.9811	.9790	.9765
20.....	.9761	.9774	.9782	.9680	.9652	.9615	.9566
30.....	.9657	.9679	.9690	.9549	.9507	.9453	.9379
60.....	.9359	.9427	.9439	.9197	.9119	.9016	.8858
90.....	.9075	.9218	.9221	.8896	.8780	.8638	.8387
121.....	.8796	.9029	.9021	.8619	.8466	.8289	.7945
151.....	.8542	.8864	.8843	.8375	.8188	.7980	.7556
182.....	.8294	.8706	.8671	.8140	.7921	.7682	.7189
212.....	.8069	.8561	.8512	.7923	.7677	.7410	.6862
243.....	.7851	.8417	.8355	.7708	.7437	.7140	.6549
273.....	.7651	.8283	.8207	.7507	.7215	.6889	.6269
304.....	.7456	.8148	.8057	.7304	.6993	.6637	.5998
334.....	.7275	.8022	.7916	.7112	.6786	.6400	.5752
365.....	.7097	.7896	.7773	.6917	.6578	.6163	.5513
547.....	.6154	.7246	.6997	.5860	.5468	.4902	.4349
730.....	.5326	.6722	.6314	.4966	.4511	.3858	.3454
912.....	.4682	.6256	.5712	.4244	.3692	.3013	.2766
1095.....	.4197	.5803	.5189	.3635	.2985	.2312	.2221
1277.....	.3779	.5363	.4723	.3113	.2390	.1740	.1787
1460.....	.3376	.4947	.4279	.2660	.1889	.1289	.1431
1642.....	.3018	.4565	.3863	.2265	.1477	.0949	.1124
1825.....	.2731	.4221	.3473	.1904	.1142	.0678	.0856
2190.....	.2255	.3646	.2788	.1318	.0663	.0292	.0440
2555.....	.1831	.3179	.2245	.0916	.0377	.0098	.0157
2920.....	.1440	.2798	.1827	.0641	.0213	.0025	.0028
3285.....	.1075	.2484	.1509	.0452	.0123	.0005	.0000
3650.....	.0740	.2221	.1267	.0322	.0073	.0001	.0000
4015.....	.0454	.1995	.1081	.0231	.0045	.0000	.0000
4380.....	.0236	.1796	.0933	.0168	.0030	.0000	.0000
4745.....	.0095	.1614	.0811	.0123	.0020	.0000	.0000
5110.....	.0026	.1444	.0704	.0090	.0014	.0000	.0000
5475.....	.0004	.1282	.0609	.0066	.0010	.0000	.0000
5840.....	.0001	.1128	.0521	.0048	.0007	.0000	.0000
6205.....	.0000	.0980	.0441	.0035	.0005	.0000	.0000
6570.....	.0000	.0838	.0367	.0025	.0004	.0000	.0000
6935.....	.0000	.0702	.0300	.0018	.0002	.0000	.0000
7300.....	.0000	.0572	.0238	.0012	.0002	.0000	.0000
7665.....	.0000	.0447	.0182	.0008	.0001	.0000	.0000
8030.....	.0000	.0328	.0130	.0005	.0001	.0000	.0000
8395.....	.0000	.0214	.0083	.0003	.0000	.0000	.0000
8760.....	.0000	.0105	.0040	.0001	.0000	.0000	.0000
9125.....	.0000	.0000	.0000	.0000	.0000	.0000	.0000
ALOS*.....	811	900	888	603	561	500	445

\*Average length-of-stay.

TABLE 13—Continued

Days from Admission	Age at Admission						
	< 45	45-54	55-64	65-74	75-84	85-94	95 +
	Total						
0.....	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
10.....	.9865	.9854	.9865	.9807	.9777	.9768	.9730
20.....	.9751	.9729	.9752	.9647	.9593	.9577	.9503
30.....	.9642	.9611	.9647	.9500	.9425	.9402	.9291
60.....	.9334	.9295	.9361	.9110	.8981	.8930	.8711
90.....	.9054	.9031	.9112	.8777	.8599	.8522	.8204
121.....	.8788	.8793	.8882	.8472	.8249	.8146	.7741
151.....	.8550	.8586	.8677	.8205	.7942	.7815	.7340
182.....	.8322	.8388	.8480	.7948	.7649	.7498	.6966
212.....	.8116	.8207	.8299	.7715	.7383	.7209	.6637
243.....	.7916	.8029	.8119	.7484	.7123	.6926	.6324
273.....	.7733	.7862	.7952	.7269	.6883	.6663	.6044
304.....	.7553	.7695	.7785	.7053	.6644	.6402	.5775
334.....	.7387	.7539	.7628	.6850	.6422	.6158	.5530
365.....	.7221	.7382	.7471	.6645	.6201	.5913	.5293
547.....	.6358	.6567	.6641	.5546	.5039	.4625	.4127
730.....	.5648	.5923	.5948	.4634	.4073	.3564	.3212
912.....	.5090	.5380	.5342	.3891	.3278	.2724	.2502
1095.....	.4626	.4877	.4790	.3254	.2624	.2056	.1967
1277.....	.4198	.4424	.4290	.2711	.2090	.1530	.1562
1460.....	.3778	.4024	.3835	.2248	.1647	.1120	.1228
1642.....	.3388	.3653	.3422	.1847	.1288	.0813	.0933
1825.....	.3044	.3319	.3036	.1483	.0999	.0572	.0671
2190.....	.2464	.2789	.2366	.0936	.0583	.0235	.0310
2555.....	.1978	.2338	.1839	.0603	.0332	.0073	.0115
2920.....	.1556	.1958	.1433	.0395	.0187	.0017	.0029
3285.....	.1184	.1639	.1124	.0264	.0107	.0003	.0004
3650.....	.0858	.1373	.0891	.0179	.0063	.0000	.0000
4015.....	.0583	.1151	.0714	.0123	.0039	.0000	.0000
4380.....	.0363	.0965	.0579	.0085	.0025	.0000	.0000
4745.....	.0203	.0809	.0474	.0060	.0017	.0000	.0000
5110.....	.0101	.0676	.0389	.0042	.0012	.0000	.0000
5475.....	.0046	.0562	.0319	.0029	.0008	.0000	.0000
5840.....	.0021	.0463	.0259	.0021	.0006	.0000	.0000
6205.....	.0010	.0377	.0208	.0014	.0004	.0000	.0000
6570.....	.0004	.0303	.0165	.0010	.0003	.0000	.0000
6935.....	.0002	.0239	.0129	.0007	.0002	.0000	.0000
7300.....	.0001	.0184	.0097	.0004	.0001	.0000	.0000
7665.....	.0000	.0136	.0071	.0003	.0001	.0000	.0000
8030.....	.0000	.0094	.0049	.0002	.0001	.0000	.0000
8395.....	.0000	.0058	.0030	.0001	.0000	.0000	.0000
8760.....	.0000	.0027	.0014	.0000	.0000	.0000	.0000
9125.....	.0000	.0000	.0000	.0000	.0000	.0000	.0000
ALOS*.....	775	728	789	543	472	451	388

\*Average length-of-stay.

TABLE 14

PROPORTION OF DAYS AFTER THE PERIOD SHOWN;  
INSURABLE STAYS; BENEFIT PERIOD CONCEPT; UNADJUSTED 1985 NNHS EXPERIENCE

Days from Admission	Age at Admission						
	< 45	45-54	55-64	65-74	75-84	85-94	95 +
Males							
0.....	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
10.....	.9860	.9821	.9815	.9757	.9665	.9675	.9528
20.....	.9741	.9672	.9661	.9556	.9398	.9419	.9131
30.....	.9626	.9531	.9520	.9372	.9154	.9187	.8771
60.....	.9315	.9144	.9140	.8886	.8529	.8568	.7836
90.....	.9049	.8815	.8813	.8475	.8007	.8034	.7114
121.....	.8808	.8515	.8515	.8107	.7540	.7549	.6518
151.....	.8600	.8249	.8254	.7788	.7139	.7131	.6045
182.....	.8404	.7992	.8005	.7488	.6763	.6739	.5632
212.....	.8228	.7756	.7780	.7217	.6427	.6391	.5289
243.....	.8058	.7520	.7561	.6954	.6102	.6058	.4977
273.....	.7902	.7299	.7360	.6711	.5806	.5757	.4709
304.....	.7748	.7076	.7162	.6470	.5516	.5463	.4458
334.....	.7604	.6867	.6979	.6244	.5249	.5193	.4235
365.....	.7462	.6656	.6799	.6018	.4987	.4927	.4022
547.....	.6726	.5574	.5897	.4834	.3676	.3561	.2971
730.....	.6137	.4796	.5204	.3883	.2692	.2463	.2059
912.....	.5634	.4210	.4605	.3110	.1989	.1660	.1302
1095.....	.5156	.3694	.4027	.2439	.1503	.1123	.0856
1277.....	.4684	.3249	.3510	.1888	.1159	.0767	.0635
1460.....	.4211	.2860	.3086	.1449	.0895	.0512	.0482
1642.....	.3742	.2493	.2717	.1083	.0693	.0331	.0341
1825.....	.3272	.2169	.2358	.0761	.0539	.0200	.0205
2190.....	.2444	.1703	.1735	.0348	.0314	.0042	.0060
2555.....	.1810	.1311	.1268	.0164	.0176	.0000	.0033
2920.....	.1325	.0990	.0914	.0080	.0095	.0000	.0023
3285.....	.0956	.0733	.0646	.0041	.0051	.0000	.0017
3650.....	.0678	.0533	.0444	.0022	.0027	.0000	.0013
4015.....	.0471	.0381	.0295	.0013	.0014	.0000	.0009
4380.....	.0321	.0268	.0189	.0007	.0008	.0000	.0007
4745.....	.0214	.0186	.0115	.0005	.0004	.0000	.0005
5110.....	.0141	.0128	.0067	.0003	.0002	.0000	.0003
5475.....	.0091	.0087	.0038	.0002	.0001	.0000	.0001
5840.....	.0059	.0059	.0022	.0001	.0001	.0000	.0000
6205.....	.0038	.0040	.0012	.0001	.0000	.0000	.0000
6570.....	.0025	.0027	.0007	.0000	.0000	.0000	.0000
6935.....	.0016	.0018	.0004	.0000	.0000	.0000	.0000
7300.....	.0010	.0012	.0002	.0000	.0000	.0000	.0000
7665.....	.0006	.0007	.0001	.0000	.0000	.0000	.0000
8030.....	.0003	.0004	.0001	.0000	.0000	.0000	.0000
8395.....	.0002	.0002	.0000	.0000	.0000	.0000	.0000
8760.....	.0001	.0001	.0000	.0000	.0000	.0000	.0000
9125.....	.0000	.0000	.0000	.0000	.0000	.0000	.0000
ALOS*.....	710	578	579	428	309	320	223

\*Average length-of-stay.



TABLE 14—Continued

Days from Admission	Age at Admission						
	<45	45-54	55-64	65-74	75-84	85-94	95 +
Females							
0.....	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
10.....	.9895	.9893	.9872	.9817	.9804	.9791	.9763
20.....	.9812	.9801	.9767	.9665	.9641	.9618	.9563
30.....	.9734	.9715	.9668	.9527	.9491	.9458	.9375
60.....	.9513	.9490	.9401	.9162	.9093	.9025	.8854
90.....	.9298	.9304	.9172	.8851	.8746	.8651	.8382
121.....	.9083	.9136	.8962	.8567	.8426	.8306	.7941
151.....	.8880	.8990	.8776	.8318	.8143	.8001	.7553
182.....	.8676	.8848	.8596	.8078	.7872	.7707	.7186
212.....	.8484	.8717	.8430	.7858	.7625	.7438	.6861
243.....	.8289	.8586	.8265	.7640	.7382	.7172	.6551
273.....	.8106	.8463	.8109	.7435	.7157	.6924	.6273
304.....	.7921	.8338	.7951	.7229	.6933	.6676	.6004
334.....	.7747	.8219	.7802	.7034	.6723	.6443	.5761
365.....	.7572	.8098	.7650	.6837	.6513	.6209	.5525
547.....	.6621	.7441	.6833	.5765	.5392	.4967	.4378
730.....	.5726	.6914	.6138	.4863	.4431	.3936	.3501
912.....	.4911	.6472	.5541	.4146	.3611	.3094	.2813
1095.....	.4272	.6050	.5024	.3553	.2908	.2389	.2259
1277.....	.3759	.5642	.4563	.3047	.2321	.1807	.1816
1460.....	.3279	.5271	.4121	.2603	.1829	.1345	.1455
1642.....	.2861	.4930	.3694	.2213	.1425	.0999	.1143
1825.....	.2542	.4594	.3269	.1857	.1095	.0725	.0870
2190.....	.2027	.3968	.2552	.1281	.0625	.0329	.0447
2555.....	.1581	.3428	.2044	.0891	.0349	.0121	.0160
2920.....	.1200	.2975	.1676	.0629	.0195	.0036	.0029
3285.....	.0881	.2603	.1401	.0453	.0111	.0009	.0000
3650.....	.0621	.2296	.1189	.0334	.0066	.0002	.0000
4015.....	.0418	.2040	.1022	.0251	.0041	.0000	.0000
4380.....	.0267	.1820	.0886	.0193	.0027	.0000	.0000
4745.....	.0161	.1624	.0771	.0151	.0019	.0000	.0000
5110.....	.0092	.1444	.0671	.0119	.0013	.0000	.0000
5475.....	.0051	.1275	.0580	.0093	.0010	.0000	.0000
5840.....	.0029	.1114	.0497	.0073	.0007	.0000	.0000
6205.....	.0016	.0962	.0421	.0057	.0005	.0000	.0000
6570.....	.0009	.0818	.0351	.0043	.0004	.0000	.0000
6935.....	.0005	.0682	.0287	.0033	.0002	.0000	.0000
7300.....	.0003	.0553	.0228	.0024	.0002	.0000	.0000
7665.....	.0001	.0430	.0174	.0017	.0001	.0000	.0000
8030.....	.0001	.0314	.0125	.0011	.0001	.0000	.0000
8395.....	.0000	.0203	.0080	.0007	.0000	.0000	.0000
8760.....	.0000	.0099	.0038	.0003	.0000	.0000	.0000
9125.....	.0000	.0000	.0000	.0000	.0000	.0000	.0000
ALOS* .....	995	1019	829	578	543	504	440

\*Average length-of-stay.

TABLE 14—Continued

Days from Admission	Age at Admission						
	<45	45-54	55-64	65-74	75-84	85-94	95+
	Total						
0.....	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
10.....	.9872	.9847	.9846	.9795	.9770	.9767	.9724
20.....	.9767	.9718	.9718	.9625	.9581	.9576	.9492
30.....	.9666	.9596	.9599	.9470	.9408	.9400	.9276
60.....	.9386	.9268	.9280	.9059	.8952	.8928	.8683
90.....	.9133	.8992	.9006	.8711	.8561	.8520	.8165
121.....	.8893	.8741	.8754	.8396	.8204	.8146	.7694
151.....	.8677	.8520	.8532	.8120	.7891	.7816	.7289
182.....	.8467	.8306	.8320	.7856	.7592	.7501	.6912
212.....	.8274	.8109	.8125	.7616	.7322	.7214	.6582
243.....	.8083	.7913	.7933	.7380	.7058	.6933	.6269
273.....	.7905	.7728	.7754	.7159	.6814	.6672	.5991
304.....	.7727	.7541	.7575	.6938	.6572	.6413	.5723
334.....	.7561	.7364	.7407	.6730	.6347	.6170	.5481
365.....	.7394	.7185	.7239	.6521	.6122	.5928	.5247
547.....	.6513	.6249	.6367	.5396	.4947	.4649	.4104
730.....	.5757	.5542	.5666	.4468	.3975	.3593	.3211
912.....	.5099	.4980	.5066	.3724	.3181	.2753	.2508
1095.....	.4527	.4470	.4522	.3097	.2532	.2080	.1971
1277.....	.4010	.4015	.4037	.2570	.2009	.1549	.1564
1460.....	.3511	.3612	.3601	.2120	.1576	.1135	.1230
1642.....	.3063	.3235	.3197	.1732	.1226	.0826	.0934
1825.....	.2690	.2896	.2797	.1382	.0945	.0586	.0672
2190.....	.2077	.2377	.2111	.0859	.0542	.0248	.0311
2555.....	.1578	.1936	.1610	.0546	.0303	.0081	.0115
2920.....	.1176	.1572	.1239	.0356	.0168	.0020	.0029
3285.....	.0857	.1278	.0960	.0238	.0094	.0004	.0004
3650.....	.0608	.1042	.0749	.0163	.0054	.0001	.0000
4015.....	.0419	.0856	.0588	.0115	.0033	.0000	.0000
4380.....	.0280	.0707	.0462	.0082	.0021	.0000	.0000
4745.....	.0181	.0587	.0364	.0060	.0014	.0000	.0000
5110.....	.0114	.0489	.0286	.0044	.0010	.0000	.0000
5475.....	.0071	.0405	.0224	.0033	.0007	.0000	.0000
5840.....	.0044	.0333	.0174	.0024	.0005	.0000	.0000
6205.....	.0027	.0271	.0134	.0018	.0003	.0000	.0000
6570.....	.0017	.0217	.0102	.0013	.0002	.0000	.0000
6935.....	.0010	.0171	.0077	.0009	.0002	.0000	.0000
7300.....	.0006	.0131	.0056	.0006	.0001	.0000	.0000
7665.....	.0004	.0097	.0039	.0004	.0001	.0000	.0000
8030.....	.0002	.0067	.0026	.0003	.0000	.0000	.0000
8395.....	.0001	.0041	.0015	.0002	.0000	.0000	.0000
8760.....	.0000	.0019	.0007	.0001	.0000	.0000	.0000
9125.....	.0000	.0000	.0000	.0000	.0000	.0000	.0000
ALOS*.....	797	693	691	512	458	449	380

\*Average length-of-stay.

TABLE 15  
 PROPORTION OF DAYS AFTER THE PERIOD SHOWN;  
 ALL STAYS; STAY CONCEPT; ADJUSTED TO MATCH 1985 NNHS RESIDENTS

Days from Admission	Age at Admission						
	< 45	45-54	55-64	65-74	75-84	85-94	95 +
Males							
0.....	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
10.....	.9751	.9729	.9720	.9723	.9626	.9658	.9592
20.....	.9545	.9510	.9489	.9495	.9328	.9387	.9257
30.....	.9355	.9308	.9277	.9286	.9061	.9141	.8952
60.....	.8847	.8795	.8710	.8733	.8382	.8485	.8166
90.....	.8422	.8391	.8229	.8264	.7826	.7924	.7550
121.....	.8044	.8043	.7801	.7843	.7336	.7417	.7027
151.....	.7722	.7747	.7439	.7483	.6921	.6983	.6595
182.....	.7423	.7470	.7106	.7149	.6536	.6579	.6203
212.....	.7158	.7220	.6817	.6854	.6196	.6224	.5863
243.....	.6906	.6976	.6545	.6574	.5871	.5887	.5544
273.....	.6680	.6748	.6303	.6321	.5577	.5586	.5260
304.....	.6461	.6521	.6071	.6076	.5293	.5296	.4987
334.....	.6262	.6308	.5862	.5852	.5033	.5033	.4742
365.....	.6069	.6094	.5658	.5632	.4780	.4778	.4504
547.....	.5144	.4974	.4660	.4523	.3544	.3537	.3336
730.....	.4473	.4102	.3886	.3629	.2631	.2588	.2385
912.....	.3986	.3434	.3242	.2900	.1976	.1854	.1623
1095.....	.3587	.2915	.2665	.2305	.1515	.1311	.1110
1277.....	.3213	.2512	.2166	.1831	.1171	.0924	.0824
1460.....	.2843	.2190	.1765	.1436	.0889	.0635	.0652
1642.....	.2492	.1949	.1465	.1087	.0657	.0424	.0515
1825.....	.2169	.1769	.1224	.0779	.0466	.0277	.0382
2190.....	.1629	.1487	.0857	.0390	.0205	.0101	.0208
2555.....	.1241	.1249	.0611	.0211	.0081	.0031	.0142
2920.....	.0972	.1038	.0434	.0123	.0029	.0008	.0106
3285.....	.0789	.0846	.0303	.0076	.0010	.0002	.0083
3650.....	.0660	.0666	.0204	.0050	.0003	.0000	.0065
4015.....	.0567	.0499	.0131	.0034	.0001	.0000	.0051
4380.....	.0493	.0349	.0079	.0024	.0000	.0000	.0038
4745.....	.0431	.0225	.0044	.0017	.0000	.0000	.0027
5110.....	.0377	.0133	.0022	.0012	.0000	.0000	.0017
5475.....	.0327	.0075	.0011	.0009	.0000	.0000	.0007
5840.....	.0282	.0042	.0005	.0007	.0000	.0000	.0002
6205.....	.0240	.0023	.0003	.0005	.0000	.0000	.0000
6570.....	.0201	.0013	.0001	.0003	.0000	.0000	.0000
6935.....	.0165	.0007	.0001	.0002	.0000	.0000	.0000
7300.....	.0131	.0004	.0000	.0002	.0000	.0000	.0000
7665.....	.0101	.0002	.0000	.0001	.0000	.0000	.0000
8030.....	.0073	.0001	.0000	.0001	.0000	.0000	.0000
8395.....	.0046	.0001	.0000	.0000	.0000	.0000	.0000
8760.....	.0022	.0000	.0000	.0000	.0000	.0000	.0000
9125.....	.0000	.0000	.0000	.0000	.0000	.0000	.0000
ALOS*.....	416	377	379	374	276	305	254

\*Average length-of-stay.

TABLE 15—Continued

Days from Admission	Age at Admission						
	< 45	45-54	55-64	65-74	75-84	85-94	95 +
Females							
0.....	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
10.....	.9764	.9747	.9809	.9763	.9766	.9767	.9732
20.....	.9566	.9529	.9648	.9567	.9574	.9576	.9505
30.....	.9377	.9334	.9501	.9392	.9398	.9399	.9290
60.....	.8858	.8831	.9109	.8929	.8931	.8921	.8710
90.....	.8389	.8429	.8774	.8539	.8529	.8505	.8213
121.....	.7948	.8082	.8468	.8185	.8163	.8121	.7762
151.....	.7560	.7790	.8198	.7875	.7842	.7782	.7368
182.....	.7194	.7520	.7940	.7578	.7538	.7457	.6996
212.....	.6871	.7282	.7704	.7307	.7263	.7161	.6663
243.....	.6565	.7053	.7472	.7039	.6995	.6871	.6340
273.....	.6294	.6846	.7256	.6790	.6749	.6603	.6045
304.....	.6036	.6644	.7042	.6542	.6505	.6337	.5757
334.....	.5806	.6459	.6842	.6310	.6280	.6090	.5492
365.....	.5586	.6277	.6643	.6078	.6055	.5843	.5230
547.....	.4544	.5392	.5621	.4891	.4890	.4567	.3921
730.....	.3743	.4733	.4806	.3981	.3921	.3542	.2916
912.....	.3136	.4177	.4153	.3274	.3113	.2737	.2207
1095.....	.2664	.3661	.3627	.2699	.2440	.2091	.1723
1277.....	.2255	.3184	.3187	.2224	.1902	.1570	.1355
1460.....	.1882	.2743	.2774	.1809	.1464	.1150	.1039
1642.....	.1603	.2394	.2379	.1443	.1110	.0831	.0772
1825.....	.1431	.2178	.2022	.1132	.0832	.0586	.0556
2190.....	.1179	.1897	.1452	.0703	.0451	.0263	.0242
2555.....	.0974	.1687	.1046	.0448	.0226	.0110	.0069
2920.....	.0797	.1521	.0772	.0289	.0109	.0040	.0015
3285.....	.0638	.1383	.0591	.0185	.0053	.0012	.0003
3650.....	.0492	.1262	.0470	.0116	.0027	.0003	.0001
4015.....	.0357	.1153	.0387	.0071	.0016	.0001	.0000
4380.....	.0239	.1052	.0327	.0041	.0010	.0000	.0000
4745.....	.0144	.0956	.0280	.0023	.0007	.0000	.0000
5110.....	.0077	.0864	.0240	.0012	.0005	.0000	.0000
5475.....	.0037	.0775	.0205	.0006	.0003	.0000	.0000
5840.....	.0018	.0688	.0173	.0003	.0003	.0000	.0000
6205.....	.0009	.0603	.0145	.0002	.0002	.0000	.0000
6570.....	.0004	.0521	.0119	.0001	.0001	.0000	.0000
6935.....	.0002	.0440	.0096	.0000	.0001	.0000	.0000
7300.....	.0001	.0362	.0076	.0000	.0001	.0000	.0000
7665.....	.0000	.0286	.0057	.0000	.0000	.0000	.0000
8030.....	.0000	.0212	.0040	.0000	.0000	.0000	.0000
8395.....	.0000	.0139	.0026	.0000	.0000	.0000	.0000
8760.....	.0000	.0069	.0012	.0000	.0000	.0000	.0000
9125.....	.0000	.0000	.0000	.0000	.0000	.0000	.0000
AI.OS*	435	420	553	444	449	449	391

\*Average length-of-stay.

TABLE 15—Continued

Days from Admission	Age at Admission						
	<45	45-54	55-64	65-74	75-84	85-94	95 +
	Total						
0.....	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
10.....	.9753	.9752	.9768	.9750	.9731	.9745	.9707
20.....	.9547	.9546	.9575	.9543	.9513	.9538	.9461
30.....	.9355	.9358	.9399	.9356	.9315	.9347	.9230
60.....	.8837	.8875	.8927	.8864	.8795	.8832	.8615
90.....	.8391	.8492	.8526	.8447	.8354	.8387	.8097
121.....	.7987	.8162	.8165	.8071	.7956	.7978	.7634
151.....	.7637	.7882	.7852	.7744	.7611	.7620	.7236
182.....	.7311	.7622	.7559	.7435	.7285	.7278	.6862
212.....	.7023	.7389	.7298	.7156	.6993	.6969	.6530
243.....	.6749	.7162	.7046	.6884	.6710	.6669	.6210
273.....	.6504	.6953	.6818	.6634	.6451	.6394	.5919
304.....	.6269	.6745	.6595	.6387	.6196	.6122	.5636
334.....	.6057	.6552	.6389	.6158	.5961	.5871	.5377
365.....	.5852	.6359	.6187	.5931	.5729	.5622	.5123
547.....	.4873	.5376	.5173	.4773	.4545	.4350	.3852
730.....	.4146	.4616	.4375	.3866	.3592	.3338	.2865
912.....	.3609	.4003	.3724	.3147	.2825	.2546	.2149
1095.....	.3180	.3486	.3177	.2562	.2208	.1920	.1660
1277.....	.2795	.3052	.2712	.2085	.1720	.1428	.1298
1460.....	.2435	.2683	.2304	.1674	.1322	.1037	.0997
1642.....	.2134	.2400	.1947	.1312	.0999	.0741	.0739
1825.....	.1902	.2205	.1634	.1001	.0742	.0518	.0526
2190.....	.1533	.1916	.1148	.0585	.0388	.0228	.0230
2555.....	.1246	.1680	.0813	.0359	.0188	.0094	.0076
2920.....	.1017	.1478	.0579	.0227	.0087	.0034	.0023
3285.....	.0828	.1299	.0414	.0144	.0041	.0010	.0009
3650.....	.0670	.1138	.0297	.0091	.0021	.0003	.0005
4015.....	.0537	.0990	.0213	.0057	.0011	.0001	.0003
4380.....	.0424	.0854	.0153	.0034	.0007	.0000	.0001
4745.....	.0330	.0730	.0109	.0020	.0005	.0000	.0000
5110.....	.0253	.0617	.0078	.0011	.0004	.0000	.0000
5475.....	.0192	.0517	.0056	.0006	.0003	.0000	.0000
5840.....	.0145	.0429	.0039	.0003	.0002	.0000	.0000
6205.....	.0109	.0352	.0028	.0002	.0001	.0000	.0000
6570.....	.0081	.0285	.0019	.0001	.0001	.0000	.0000
6935.....	.0059	.0227	.0013	.0001	.0001	.0000	.0000
7300.....	.0042	.0175	.0009	.0000	.0000	.0000	.0000
7665.....	.0029	.0130	.0006	.0000	.0000	.0000	.0000
8030.....	.0019	.0091	.0004	.0000	.0000	.0000	.0000
8395.....	.0011	.0057	.0002	.0000	.0000	.0000	.0000
8760.....	.0005	.0026	.0001	.0000	.0000	.0000	.0000
9125.....	.0000	.0000	.0000	.0000	.0000	.0000	.0000
ALOS*	418	420	457	418	389	410	357

\*Average length-of-stay.

TABLE 16  
 PROPORTION OF DAYS AFTER THE PERIOD SHOWN;  
 ALL STAYS; BENEFIT PERIOD CONCEPT; ADJUSTED TO MATCH 1985 NNHS RESIDENTS

Days from Admission	Age at Admission						
	<45	45-54	55-64	65-74	75-84	85-94	95+
Males							
0.....	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
10.....	.9889	.9857	.9867	.9802	.9714	.9720	.9612
20.....	.9793	.9736	.9756	.9635	.9483	.9496	.9291
30.....	.9702	.9619	.9652	.9481	.9271	.9292	.8999
60.....	.9449	.9298	.9366	.9068	.8720	.8743	.8232
90.....	.9221	.9027	.9113	.8711	.8253	.8259	.7624
121.....	.9009	.8779	.8876	.8384	.7831	.7813	.7107
151.....	.8820	.8562	.8664	.8097	.7465	.7422	.6684
182.....	.8639	.8354	.8459	.7823	.7118	.7053	.6306
212.....	.8475	.8163	.8271	.7575	.6806	.6722	.5982
243.....	.8315	.7974	.8086	.7332	.6503	.6402	.5680
273.....	.8167	.7798	.7914	.7107	.6225	.6111	.5414
304.....	.8022	.7621	.7742	.6883	.5951	.5827	.5160
334.....	.7886	.7455	.7582	.6672	.5697	.5564	.4930
365.....	.7750	.7287	.7422	.6461	.5447	.5304	.4706
547.....	.7040	.6406	.6596	.5344	.4173	.3955	.3560
730.....	.6465	.5712	.5926	.4424	.3185	.2854	.2547
912.....	.5992	.5147	.5332	.3651	.2451	.2026	.1696
1095.....	.5554	.4632	.4752	.2963	.1921	.1444	.1172
1277.....	.5125	.4183	.4206	.2376	.1531	.1035	.0895
1460.....	.4696	.3794	.3726	.1884	.1221	.0728	.0697
1642.....	.4269	.3434	.3303	.1458	.0975	.0500	.0515
1825.....	.3842	.3103	.2910	.1073	.0780	.0331	.0337
2190.....	.3091	.2574	.2236	.0554	.0488	.0101	.0133
2555.....	.2502	.2104	.1697	.0295	.0295	.0013	.0081
2920.....	.2018	.1692	.1271	.0163	.0175	.0001	.0057
3285.....	.1608	.1335	.0938	.0094	.0104	.0000	.0043
3650.....	.1258	.1031	.0682	.0056	.0062	.0000	.0033
4015.....	.0958	.0780	.0487	.0035	.0039	.0000	.0025
4380.....	.0708	.0576	.0343	.0022	.0025	.0000	.0019
4745.....	.0504	.0416	.0237	.0015	.0017	.0000	.0013
5110.....	.0348	.0295	.0162	.0010	.0012	.0000	.0008
5475.....	.0236	.0207	.0110	.0007	.0008	.0000	.0003
5840.....	.0159	.0145	.0074	.0005	.0006	.0000	.0000
6205.....	.0107	.0101	.0050	.0003	.0004	.0000	.0000
6570.....	.0071	.0070	.0033	.0002	.0003	.0000	.0000
6935.....	.0047	.0047	.0022	.0001	.0002	.0000	.0000
7300.....	.0030	.0032	.0014	.0001	.0001	.0000	.0000
7665.....	.0019	.0020	.0009	.0001	.0001	.0000	.0000
8030.....	.0011	.0012	.0005	.0000	.0000	.0000	.0000
8395.....	.0006	.0007	.0003	.0000	.0000	.0000	.0000
8760.....	.0002	.0003	.0001	.0000	.0000	.0000	.0000
9125.....	.0000	.0000	.0000	.0000	.0000	.0000	.0000
ALOS*	936	737	813	527	364	374	272

\*Average length-of-stay.

TABLE 16—Continued

Days from Admission	Age at Admission						
	<45	45-54	55-64	65-74	75-84	85-94	95 +
Females							
0.....	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
10.....	.9883	.9897	.9896	.9847	.9832	.9811	.9790
20.....	.9787	.9807	.9810	.9719	.9690	.9654	.9612
30.....	.9693	.9725	.9728	.9602	.9559	.9507	.9443
60.....	.9424	.9504	.9505	.9286	.9206	.9106	.8971
90.....	.9167	.9319	.9310	.9011	.8894	.8755	.8540
121.....	.8913	.9149	.9127	.8757	.8603	.8428	.8134
151.....	.8681	.9000	.8964	.8531	.8343	.8137	.7772
182.....	.8453	.8856	.8806	.8311	.8091	.7854	.7428
212.....	.8246	.8723	.8660	.8108	.7861	.7594	.7120
243.....	.8043	.8591	.8514	.7906	.7633	.7336	.6824
273.....	.7856	.8467	.8376	.7717	.7421	.7095	.6556
304.....	.7673	.8343	.8237	.7525	.7210	.6853	.6296
334.....	.7504	.8226	.8105	.7343	.7011	.6624	.6059
365.....	.7336	.8108	.7972	.7159	.6811	.6395	.5827
547.....	.6438	.7499	.7243	.6151	.5737	.5165	.4680
730.....	.5641	.6998	.6593	.5288	.4799	.4131	.3780
912.....	.5009	.6549	.6016	.4578	.3986	.3281	.3072
1095.....	.4521	.6110	.5507	.3971	.3276	.2563	.2502
1277.....	.4096	.5684	.5051	.3445	.2671	.1969	.2039
1460.....	.3685	.5280	.4614	.2982	.2153	.1491	.1652
1642.....	.3316	.4905	.4203	.2574	.1722	.1122	.1315
1825.....	.3016	.4565	.3815	.2199	.1364	.0822	.1017
2190.....	.2509	.3988	.3126	.1579	.0838	.0383	.0546
2555.....	.2052	.3511	.2570	.1137	.0507	.0146	.0214
2920.....	.1629	.3115	.2130	.0824	.0306	.0046	.0049
3285.....	.1231	.2783	.1788	.0601	.0188	.0012	.0004
3650.....	.0864	.2500	.1521	.0442	.0119	.0003	.0000
4015.....	.0546	.2254	.1311	.0328	.0078	.0001	.0000
4380.....	.0297	.2034	.1140	.0245	.0053	.0000	.0000
4745.....	.0131	.1833	.0996	.0184	.0038	.0000	.0000
5110.....	.0042	.1643	.0870	.0138	.0027	.0000	.0000
5475.....	.0010	.1462	.0756	.0104	.0020	.0000	.0000
5840.....	.0002	.1289	.0650	.0077	.0015	.0000	.0000
6205.....	.0001	.1122	.0552	.0057	.0011	.0000	.0000
6570.....	.0000	.0961	.0462	.0042	.0008	.0000	.0000
6935.....	.0000	.0807	.0379	.0030	.0005	.0000	.0000
7300.....	.0000	.0659	.0303	.0021	.0004	.0000	.0000
7665.....	.0000	.0516	.0232	.0015	.0002	.0000	.0000
8030.....	.0000	.0379	.0167	.0009	.0002	.0000	.0000
8395.....	.0000	.0248	.0107	.0005	.0001	.0000	.0000
8760.....	.0000	.0121	.0051	.0002	.0000	.0000	.0000
9125.....	.0000	.0000	.0000	.0000	.0000	.0000	.0000
ALOS*	915	1054	1023	690	633	560	502

\*Average length-of-stay.

TABLE 16--Continued

Days from Admission	Age at Admission						Total
	<45	45-54	55-64	65-74	75-84	85-94	
0.....	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
10.....	.9881	.9874	.9882	.9830	.9803	.9792	.9761
20.....	.9780	.9767	.9783	.9688	.9640	.9621	.9559
30.....	.9683	.9665	.9690	.9558	.9489	.9462	.9369
60.....	.9409	.9388	.9436	.9207	.9087	.9030	.8845
90.....	.9156	.9153	.9212	.8902	.8737	.8652	.8382
121.....	.8915	.8939	.9002	.8621	.8413	.8300	.7954
151.....	.8698	.8751	.8815	.8373	.8126	.7988	.7581
182.....	.8489	.8570	.8633	.8133	.7851	.7686	.7229
212.....	.8299	.8404	.8465	.7913	.7599	.7411	.6917
243.....	.8113	.8239	.8299	.7695	.7352	.7140	.6619
273.....	.7942	.8085	.8144	.7491	.7124	.6887	.6350
304.....	.7773	.7931	.7988	.7287	.6896	.6635	.6090
334.....	.7617	.7785	.7841	.7093	.6683	.6399	.5853
365.....	.7461	.7639	.7693	.6898	.6470	.6162	.5622
547.....	.6640	.6873	.6908	.5843	.5342	.4902	.4467
730.....	.5952	.6255	.6242	.4954	.4389	.3848	.3543
912.....	.5402	.5727	.5654	.4217	.3594	.2997	.2810
1095.....	.4937	.5234	.5114	.3578	.2928	.2307	.2246
1277.....	.4506	.4788	.4621	.3026	.2376	.1753	.1809
1460.....	.4082	.4389	.4169	.2549	.1911	.1313	.1443
1642.....	.3686	.4017	.3755	.2131	.1528	.0976	.1115
1825.....	.3334	.3679	.3366	.1749	.1213	.0705	.0822
2190.....	.2730	.3132	.2684	.1160	.0748	.0315	.0406
2555.....	.2217	.2661	.2135	.0783	.0452	.0112	.0165
2920.....	.1765	.2258	.1702	.0536	.0273	.0032	.0049
3285.....	.1363	.1915	.1365	.0373	.0166	.0008	.0009
3650.....	.1007	.1623	.1103	.0263	.0104	.0002	.0001
4015.....	.0701	.1376	.0900	.0187	.0068	.0000	.0000
4380.....	.0453	.1167	.0741	.0134	.0046	.0000	.0000
4745.....	.0266	.0987	.0614	.0097	.0032	.0000	.0000
5110.....	.0142	.0833	.0510	.0070	.0023	.0000	.0000
5475.....	.0071	.0698	.0422	.0051	.0017	.0000	.0000
5840.....	.0035	.0581	.0347	.0037	.0012	.0000	.0000
6205.....	.0018	.0477	.0282	.0026	.0009	.0000	.0000
6570.....	.0009	.0387	.0226	.0019	.0006	.0000	.0000
6935.....	.0004	.0308	.0177	.0013	.0004	.0000	.0000
7300.....	.0002	.0238	.0136	.0009	.0003	.0000	.0000
7665.....	.0001	.0177	.0100	.0006	.0002	.0000	.0000
8030.....	.0000	.0124	.0069	.0004	.0001	.0000	.0000
8395.....	.0000	.0077	.0043	.0002	.0001	.0000	.0000
8760.....	.0000	.0036	.0020	.0001	.0000	.0000	.0000
9125.....	.0000	.0000	.0000	.0000	.0000	.0000	.0000
ALOS*.....	884	850	907	621	537	507	440

\*Average length-of-stay.



TABLE 17

PROPORTION OF DAYS AFTER THE PERIOD SHOWN;  
INSURABLE STAYS; BENEFIT PERIOD CONCEPT; ADJUSTED TO MATCH 1985 NNHS RESIDENTS

Days from Admission	Age at Admission						
	< 45	45-54	55-64	65-74	75-84	85-94	95 +
Males							
0.....	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
10.....	.9878	.9844	.9839	.9786	.9707	.9711	.9590
20.....	.9773	.9713	.9705	.9607	.9470	.9480	.9243
30.....	.9672	.9589	.9580	.9442	.9253	.9270	.8926
60.....	.9396	.9245	.9243	.9003	.8689	.8703	.8092
90.....	.9156	.8949	.8949	.8626	.8210	.8208	.7433
121.....	.8937	.8675	.8678	.8283	.7776	.7753	.6878
151.....	.8746	.8432	.8438	.7985	.7400	.7357	.6429
182.....	.8565	.8195	.8208	.7701	.7044	.6983	.6033
212.....	.8401	.7976	.7999	.7444	.6724	.6648	.5698
243.....	.8242	.7757	.7795	.7192	.6413	.6326	.5391
273.....	.8095	.7551	.7607	.6959	.6128	.6032	.5124
304.....	.7949	.7343	.7420	.6727	.5848	.5745	.4872
334.....	.7813	.7147	.7248	.6509	.5589	.5480	.4647
365.....	.7678	.6949	.7077	.6291	.5333	.5218	.4430
547.....	.6971	.5925	.6210	.5134	.4039	.3856	.3345
730.....	.6395	.5166	.5530	.4189	.3044	.2741	.2393
912.....	.5897	.4583	.4935	.3408	.2314	.1906	.1591
1095.....	.5420	.4063	.4359	.2721	.1793	.1328	.1098
1277.....	.4951	.3609	.3839	.2148	.1415	.0931	.0838
1460.....	.4480	.3209	.3406	.1683	.1117	.0640	.0652
1642.....	.4012	.2829	.3025	.1290	.0885	.0427	.0481
1825.....	.3544	.2490	.2653	.0941	.0704	.0269	.0314
2190.....	.2710	.1988	.2000	.0474	.0432	.0069	.0124
2555.....	.2056	.1561	.1498	.0245	.0256	.0006	.0076
2920.....	.1543	.1204	.1107	.0131	.0148	.0000	.0054
3285.....	.1143	.0914	.0803	.0073	.0084	.0000	.0040
3650.....	.0834	.0682	.0569	.0042	.0048	.0000	.0031
4015.....	.0598	.0502	.0391	.0026	.0027	.0000	.0023
4380.....	.0421	.0364	.0259	.0016	.0016	.0000	.0017
4745.....	.0292	.0261	.0166	.0011	.0009	.0000	.0012
5110.....	.0199	.0185	.0102	.0007	.0006	.0000	.0007
5475.....	.0134	.0131	.0062	.0005	.0004	.0000	.0003
5840.....	.0091	.0092	.0037	.0003	.0002	.0000	.0000
6205.....	.0061	.0064	.0022	.0002	.0001	.0000	.0000
6570.....	.0040	.0045	.0013	.0001	.0001	.0000	.0000
6935.....	.0027	.0030	.0008	.0001	.0000	.0000	.0000
7300.....	.0017	.0020	.0005	.0001	.0000	.0000	.0000
7665.....	.0011	.0013	.0003	.0000	.0000	.0000	.0000
8030.....	.0006	.0008	.0001	.0000	.0000	.0000	.0000
8395.....	.0003	.0004	.0001	.0000	.0000	.0000	.0000
8760.....	.0001	.0002	.0000	.0000	.0000	.0000	.0000
9125.....	.0000	.0000	.0000	.0000	.0000	.0000	.0000
ALOS* .....	820	667	669	488	355	361	258

\* Average length-of-stay.

TABLE 17—Continued

Days from Admission	Age at Admission						
	<45	45-54	55-64	65-74	75-84	85-94	95 +
Females							
0.....	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
10.....	.9905	.9908	.9889	.9840	.9826	.9813	.9789
20.....	.9829	.9828	.9797	.9706	.9680	.9657	.9610
30.....	.9758	.9754	.9711	.9584	.9546	.9511	.9441
60.....	.9554	.9556	.9474	.9257	.9184	.9115	.8968
90.....	.9356	.9390	.9268	.8974	.8865	.8768	.8538
121.....	.9156	.9238	.9078	.8714	.8568	.8445	.8131
151.....	.8968	.9105	.8908	.8483	.8303	.8158	.7770
182.....	.8778	.8974	.8742	.8259	.8048	.7879	.7428
212.....	.8598	.8854	.8589	.8054	.7814	.7622	.7121
243.....	.8417	.8733	.8436	.7849	.7583	.7368	.6827
273.....	.8245	.8619	.8292	.7656	.7369	.7130	.6561
304.....	.8072	.8504	.8145	.7462	.7154	.6892	.6304
334.....	.7908	.8393	.8006	.7278	.6953	.6667	.6069
365.....	.7743	.8281	.7865	.7091	.6751	.6441	.5840
547.....	.6841	.7667	.7098	.6070	.5665	.5231	.4710
730.....	.5988	.7166	.6436	.5199	.4722	.4210	.3826
912.....	.5206	.6739	.5862	.4494	.3908	.3364	.3119
1095.....	.4580	.6330	.5358	.3901	.3200	.2644	.2540
1277.....	.4068	.5934	.4906	.3389	.2601	.2041	.2068
1460.....	.3587	.5570	.4470	.2934	.2091	.1553	.1676
1642.....	.3164	.5234	.4047	.2531	.1665	.1179	.1335
1825.....	.2833	.4903	.3627	.2160	.1313	.0877	.1032
2190.....	.2290	.4281	.2906	.1550	.0795	.0428	.0554
2555.....	.1813	.3738	.2380	.1121	.0474	.0176	.0217
2920.....	.1400	.3276	.1986	.0821	.0283	.0062	.0049
3285.....	.1050	.2889	.1684	.0612	.0172	.0019	.0004
3650.....	.0759	.2565	.1446	.0464	.0109	.0006	.0000
4015.....	.0527	.2290	.1254	.0359	.0072	.0002	.0000
4380.....	.0350	.2051	.1095	.0282	.0050	.0001	.0000
4745.....	.0221	.1836	.0958	.0224	.0036	.0001	.0000
5110.....	.0134	.1637	.0838	.0180	.0026	.0000	.0000
5475.....	.0079	.1449	.0728	.0144	.0019	.0000	.0000
5840.....	.0047	.1270	.0626	.0114	.0014	.0000	.0000
6205.....	.0027	.1099	.0533	.0090	.0011	.0000	.0000
6570.....	.0016	.0937	.0446	.0070	.0008	.0000	.0000
6935.....	.0009	.0783	.0366	.0053	.0005	.0000	.0000
7300.....	.0005	.0636	.0293	.0039	.0004	.0000	.0000
7665.....	.0003	.0496	.0225	.0028	.0003	.0000	.0000
8030.....	.0002	.0363	.0162	.0019	.0002	.0000	.0000
8395.....	.0001	.0236	.0103	.0011	.0001	.0000	.0000
8760.....	.0000	.0115	.0050	.0005	.0000	.0000	.0000
9125.....	.0000	.0000	.0000	.0000	.0000	.0000	.0000
ALOS*.....	1107	1186	959	664	614	565	497

\*Average length-of-stay.

TABLE 17—Continued

Days from Admission	Age at Admission						
	< 45	45-54	55-64	65-74	75-84	85-94	95 +
	Total						
0.....	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
10.....	.9887	.9868	.9866	.9820	.9797	.9792	.9756
20.....	.9793	.9756	.9754	.9670	.9629	.9620	.9550
30.....	.9702	.9650	.9650	.9532	.9474	.9461	.9356
60.....	.9449	.9360	.9367	.9163	.9062	.9029	.8821
90.....	.9219	.9113	.9120	.8846	.8703	.8651	.8350
121.....	.8999	.8886	.8892	.8554	.8372	.8301	.7915
151.....	.8800	.8685	.8689	.8298	.8080	.7990	.7538
182.....	.8605	.8489	.8493	.8051	.7799	.7691	.7184
212.....	.8426	.8308	.8313	.7825	.7543	.7417	.6871
243.....	.8247	.8127	.8134	.7602	.7292	.7148	.6573
273.....	.8081	.7956	.7967	.7393	.7059	.6897	.6305
304.....	.7914	.7782	.7800	.7183	.6828	.6647	.6046
334.....	.7757	.7618	.7643	.6985	.6612	.6412	.5811
365.....	.7599	.7452	.7485	.6785	.6396	.6177	.5582
547.....	.6760	.6574	.6659	.5704	.5253	.4926	.4448
730.....	.6031	.5895	.5981	.4797	.4293	.3877	.3544
912.....	.5388	.5345	.5394	.4058	.3497	.3027	.2818
1095.....	.4824	.4841	.4858	.3427	.2835	.2333	.2251
1277.....	.4310	.4388	.4376	.2887	.2292	.1775	.1812
1460.....	.3812	.3984	.3939	.2422	.1836	.1331	.1445
1642.....	.3361	.3603	.3531	.2015	.1461	.0992	.1118
1825.....	.2980	.3256	.3127	.1645	.1153	.0723	.0824
2190.....	.2344	.2716	.2424	.1079	.0700	.0331	.0406
2555.....	.1817	.2250	.1896	.0721	.0417	.0124	.0165
2920.....	.1384	.1859	.1494	.0492	.0247	.0038	.0050
3285.....	.1032	.1536	.1184	.0344	.0149	.0010	.0009
3650.....	.0753	.1273	.0943	.0245	.0092	.0003	.0001
4015.....	.0535	.1061	.0754	.0178	.0059	.0001	.0000
4380.....	.0370	.0888	.0604	.0132	.0039	.0000	.0000
4745.....	.0249	.0746	.0484	.0099	.0027	.0000	.0000
5110.....	.0164	.0626	.0387	.0075	.0020	.0000	.0000
5475.....	.0106	.0524	.0308	.0057	.0014	.0000	.0000
5840.....	.0069	.0435	.0243	.0043	.0010	.0000	.0000
6205.....	.0045	.0357	.0190	.0032	.0007	.0000	.0000
6570.....	.0029	.0288	.0147	.0023	.0005	.0000	.0000
6935.....	.0018	.0229	.0112	.0017	.0004	.0000	.0000
7300.....	.0011	.0177	.0083	.0012	.0002	.0000	.0000
7665.....	.0007	.0131	.0059	.0008	.0002	.0000	.0000
8030.....	.0004	.0092	.0039	.0005	.0001	.0000	.0000
8395.....	.0002	.0057	.0024	.0003	.0001	.0000	.0000
8760.....	.0001	.0026	.0011	.0001	.0000	.0000	.0000
9125.....	.0000	.0000	.0000	.0000	.0000	.0000	.0000
ALOS*.....	904	805	798	586	521	505	431

\*Average length-of-stay.

## APPENDIX A

ESTIMATION OF THE NONINSTITUTIONALIZED POPULATION  
OF THE CONTIGUOUS UNITED STATES,  
INCLUDING THE ARMED FORCES OVERSEAS, ON APRIL 12, 1985,  
AND OF THE TOTAL POPULATION OF THE CONTIGUOUS UNITED STATES,  
INCLUDING THE ARMED FORCES OVERSEAS, ON OCTOBER 11, 1985

There are many estimates of the U.S. population, each of which represents a slightly different concept of types of persons included. The appropriate one must be determined to obtain meaningful admission rates. The most commonly quoted estimate is probably the Resident Population as counted by the Bureau of the Census every ten years and estimated (and projected) for other dates. This is the count on which congressional districts are determined. Other estimates include (1) the Total Population Including Armed Forces Overseas, (2) the Total Population Adjusted for Net Census Undercount, and (3) the Social Security Area Population, which includes the populations of Puerto Rico and other Outlying Areas controlled by the U.S. whose residents are covered by the Social Security program. Each of these populations is progressively larger than the preceding one. A subset of the Resident Population is the Civilian Population, which excludes the Armed Forces stationed in the U.S. A subset of the Total Population Including Armed Forces Overseas is the Noninstitutionalized Population.

The desired population for the admission rates calculated in this report is the April 12, 1985 Noninstitutionalized Population (which includes the Armed Forces Overseas) Adjusted for Net Census Undercount and Excluding Alaska and Hawaii. The Armed Forces Overseas data were included in the desired population, because such a person who needed to be confined would likely be returned to the U.S. The adjustment for the net census undercount results in a more accurate estimate of the number of persons residing in the U.S. than the official count of residents, because (as the name of the adjustment implies) many persons are missed in the decennial census. Persons who were not counted by the census can be admitted to a nursing home, however, and be included in the National Nursing Home Survey (NNHS). Residents of Alaska and Hawaii could not be in the NNHS, so they were excluded from the desired population.

The desired population for the prevalence rates calculated in this report is the October 11, 1985 Total Population (Including Armed Forces Overseas) of the U.S. Adjusted for the Net Census Undercount and Excluding Alaska and Hawaii.

To estimate the desired noninstitutionalized population, the first step was to obtain an estimate of the July 1, 1984 total population from the Current Population Reports of the Bureau of the Census (P-25, No. 1045, issued January 1990). This provided an estimate by single year of age through age 99 and then the total for ages 100 and over. The population aged 100 and over was distributed by single year of age through age 110 according to the *L<sub>x</sub>* column of the 1985 Life Table produced by the Office of the Actuary, Social Security Administration. In some cases, the population 99 and over was redistributed between age 99 and ages 100 and over to make a smoother progression through ages 98, 99, and 100.

Estimates of the resident populations of Alaska and Hawaii were obtained in age groups from the Bureau of the Census (P-25, No. 1044, issued August 1989). Within each age group, the population of each state was assumed to be distributed in proportion to the total U.S. population. These populations were subtracted from the total U.S. to obtain the total population of the 48 states plus Washington, D.C., that is, the contiguous U.S.

The Bureau of the Census publishes factors by age and sex to adjust estimates of the total population for the net census undercount (referred to as completeness-of-coverage estimates) and for the noninstitutionalized (P-25, No. 1045 has the factors for April 1, 1980). These factors were applied to the total population of the contiguous U.S. to obtain an estimate of the noninstitutionalized population including the undercount in this area. The factors are published by single year of age through age 99, with a single factor for ages 100 and over. For completeness of coverage, the aggregate factor for ages 100 and over was applied for each age. For the noninstitutionalized, the factor for each age 100 and over was taken as a percentage of the factor at the previous age. The percentage was calculated to produce the published aggregate factor for all ages 100 and over.

The above procedure was performed to obtain estimates of the noninstitutionalized population by sex on July 1 of 1984 and 1985. An estimate of the noninstitutionalized population on April 12, 1985 was obtained by linearly interpolating between the two July 1 populations. The resulting population estimate is shown in Table A1. The total population was obtained by summing the male and female populations.

The table on the next page summarizes the derivation of the April 12, 1985 noninstitutionalized population in broad age groups.

NONINSTITUTIONALIZED POPULATION OF THE CONTIGUOUS U.S.,  
INCLUDING ARMED FORCES OVERSEAS  
AND THE UNDERCOUNT, APRIL 12, 1985 (THOUSANDS)

Age Group	July 1, 1985 U.S. Population Including Armed Forces Overseas	Adjustments				April 12 Study Population
		Alaska and Hawaii	Undercount	Institu- tionalized	Change from April 12	
<65 . . . . .	210,739	-1,456	3,365	-1,233	-379	211,036
65-84 . . . . .	25,847	-107	-19	-933	-102	24,686
85+ . . . . .	2,693	-9	131	-699	-12	2,104
Total . . . . .	239,279	-1,572	3,477	-2,865	-493	237,826

The same procedure (except for the application of the noninstitutionalized factor) was followed to estimate the desired total population on July 1 of 1985 and 1986. An estimate of the desired population on October 11, 1985 was obtained by linearly interpolating between the two July 1 population estimates. The estimated population is also shown in Table A1. The following table summarizes the derivation of the October 11, 1985 total population in broad age groups.

TOTAL POPULATION OF THE CONTIGUOUS U.S.,  
INCLUDING ARMED FORCES OVERSEAS  
AND THE UNDERCOUNT, OCTOBER 11, 1985 (THOUSANDS)

Age Group	July 1, 1985 U.S. Population Including Armed Forces Overseas	Adjustments			October 11 Study Population
		Alaska and Hawaii	Undercount	Change to October 11	
<65 . . . . .	210,739	-1,456	3,365	487	213,135
65-84 . . . . .	25,847	-107	-19	154	25,875
85+ . . . . .	2,693	-9	131	25	2,840
Total . . . . .	239,279	-1,572	3,477	666	241,850

TABLE A1  
POPULATION INCLUDING ARMED FORCES OVERSEAS OF CONTIGUOUS U.S.  
INCLUDING UNDERCOUNT

Age	Noninstitutionalized as of April 12, 1985			Total as of October 11, 1985		
	Male	Female	Total	Male	Female	Total
<30 . . . .	58,018,946	55,787,645	113,806,591	58,468,311	55,844,930	114,313,241
30 . . . .	2,152,017	2,092,942	4,244,959	2,202,965	2,117,828	4,320,793
31 . . . .	2,103,645	2,053,028	4,156,673	2,157,823	2,082,588	4,240,411
32 . . . .	2,047,533	2,000,079	4,047,612	2,100,803	2,033,359	4,134,162
33 . . . .	1,990,433	1,949,825	3,940,258	2,040,932	1,980,679	4,021,611
34 . . . .	1,930,135	1,900,732	3,830,867	1,983,450	1,933,893	3,917,343
35 . . . .	1,873,337	1,847,234	3,720,571	1,914,313	1,872,609	3,786,922
36 . . . .	1,863,566	1,843,911	3,707,477	1,886,951	1,852,710	3,739,661
37 . . . .	1,879,600	1,861,478	3,741,078	1,871,332	1,842,667	3,713,999
38 . . . .	1,869,836	1,851,560	3,721,396	1,967,142	1,934,449	3,901,591
39 . . . .	1,442,208	1,443,180	2,885,388	1,605,293	1,591,414	3,196,707
40 . . . .	1,462,284	1,462,816	2,925,100	1,465,299	1,458,139	2,923,438
41 . . . .	1,487,743	1,489,361	2,977,104	1,477,962	1,473,254	2,951,216
42 . . . .	1,511,583	1,511,425	3,023,008	1,539,612	1,532,357	3,071,969
43 . . . .	1,347,310	1,354,092	2,701,402	1,427,962	1,425,803	2,853,765
44 . . . .	1,269,647	1,278,291	2,547,938	1,313,771	1,316,604	2,630,375
45 . . . .	1,223,447	1,233,279	2,456,726	1,250,021	1,254,874	2,504,895
46 . . . .	1,207,643	1,219,001	2,426,644	1,223,039	1,229,829	2,452,868
47 . . . .	1,179,025	1,194,309	2,373,334	1,204,487	1,213,839	2,418,326
48 . . . .	1,130,297	1,148,118	2,278,415	1,155,691	1,168,882	2,324,573
49 . . . .	1,116,665	1,138,628	2,255,293	1,127,313	1,145,944	2,273,257
50 . . . .	1,102,367	1,125,391	2,227,758	1,118,852	1,138,612	2,257,464
51 . . . .	1,064,380	1,091,963	2,156,343	1,083,964	1,106,606	2,190,570
52 . . . .	1,061,048	1,098,565	2,159,613	1,063,595	1,095,045	2,158,640
53 . . . .	1,082,732	1,129,240	2,211,972	1,074,982	1,116,186	2,191,168
54 . . . .	1,105,452	1,156,410	2,261,862	1,099,322	1,148,735	2,248,057
55 . . . .	1,112,872	1,162,913	2,275,785	1,114,600	1,162,741	2,277,341
56 . . . .	1,107,428	1,172,673	2,280,101	1,110,672	1,168,239	2,278,911
57 . . . .	1,111,265	1,188,677	2,299,942	1,117,129	1,186,989	2,304,118
58 . . . .	1,081,733	1,177,254	2,258,987	1,097,097	1,185,316	2,282,413
59 . . . .	1,065,977	1,173,989	2,239,966	1,071,087	1,174,676	2,245,763
60 . . . .	1,072,808	1,188,935	2,261,743	1,074,831	1,188,467	2,263,298
61 . . . .	1,046,810	1,169,306	2,216,116	1,063,054	1,184,880	2,247,934
62 . . . .	1,016,454	1,145,372	2,161,826	1,025,455	1,154,470	2,179,925
63 . . . .	1,020,153	1,151,425	2,171,578	1,024,251	1,157,226	2,181,477
64 . . . .	975,095	1,109,320	2,084,415	1,000,718	1,135,981	2,136,699
65 . . . .	910,310	1,055,994	1,966,304	940,731	1,084,032	2,024,763
66 . . . .	864,231	1,022,548	1,886,779	882,441	1,039,064	1,921,505
67 . . . .	837,878	1,006,362	1,844,240	854,805	1,021,811	1,876,616
68 . . . .	784,409	966,455	1,750,864	809,525	991,323	1,800,848
69 . . . .	739,081	928,335	1,667,416	758,985	950,471	1,709,456
70 . . . .	703,461	905,183	1,608,644	720,131	923,859	1,643,990
71 . . . .	665,554	877,413	1,542,967	683,612	900,297	1,583,909
72 . . . .	624,366	843,744	1,468,110	644,177	871,340	1,515,517
73 . . . .	580,564	805,487	1,386,051	601,879	836,948	1,438,827
74 . . . .	535,622	764,272	1,299,894	557,382	798,858	1,356,240

TABLE A1—Continued

Age	Noninstitutionalized as of April 12, 1985			Total as of October 11, 1985		
	Male	Female	Total	Male	Female	Total
75 ....	491,105	721,193	1,212,298	513,177	759,251	1,272,428
76 ....	446,416	678,122	1,124,538	469,126	718,802	1,187,928
77 ....	403,474	632,158	1,035,632	425,715	676,510	1,102,225
78 ....	362,394	588,335	950,729	383,851	634,000	1,017,851
79 ....	319,974	534,855	854,829	343,280	590,655	933,935
80 ....	283,768	492,198	775,966	305,343	546,578	851,921
81 ....	246,328	441,284	687,612	268,266	501,820	770,086
82 ....	214,621	398,135	612,756	234,403	458,394	692,797
83 ....	184,509	354,768	539,277	203,568	416,977	620,545
84 ....	158,717	312,886	471,603	176,913	376,488	553,401
85 ....	134,376	273,614	407,990	151,528	337,182	488,710
86 ....	112,023	236,539	348,562	128,121	298,859	426,980
87 ....	91,045	198,035	289,080	106,743	260,827	367,570
88 ....	72,907	169,302	242,209	86,370	224,918	311,288
89 ....	57,307	134,302	191,609	69,045	190,824	259,869
90 ....	47,236	109,475	156,711	58,139	162,176	220,315
91 ....	36,931	87,470	124,401	47,791	136,080	183,871
92 ....	28,868	71,242	100,110	37,909	111,043	148,952
93 ....	21,215	53,668	74,883	28,768	87,827	116,595
94 ....	14,749	38,551	53,300	20,637	67,773	88,410
95 ....	10,671	27,317	37,988	15,262	50,583	65,845
96 ....	7,658	19,393	27,051	11,190	37,612	48,802
97 ....	5,288	13,251	18,539	8,141	26,750	34,891
98 ....	3,286	8,778	12,064	5,376	18,293	23,669
99 ....	2,368	5,448	7,816	4,074	14,066	18,140
100 ....	1,046	3,268	4,314	2,271	9,412	11,683
101 ....	601	2,168	2,769	1,547	6,669	8,216
102 ....	340	1,410	1,750	1,037	4,634	5,671
103 ....	188	900	1,088	680	3,159	3,839
104 ....	103	561	664	442	2,107	2,549
105 ....	55	342	397	280	1,373	1,653
106 ....	29	204	233	173	875	1,048
107 ....	15	118	133	106	542	648
108 ....	7	67	74	62	327	389
109 ....	4	37	41	37	193	230
110 ....	2	19	21	20	109	129
30-64 ..	48,114,528	49,114,722	97,229,250	49,055,770	49,765,890	98,821,660
65-84 ..	10,356,782	14,329,727	24,686,509	10,777,310	15,097,478	25,874,788
85+ ....	648,318	1,455,479	2,103,797	785,749	2,054,213	2,839,962
Total ...	117,138,574	120,687,573	237,826,147	119,087,140	122,762,511	241,849,651