Development of Mortality Tables for Zimbabwe

Mortality Tables

Compiled By

2 May 2023

CONFIDENTIAL

Table Of Contents

MORTALITY TABLES AND ACTUARIAL TABLES

A) MALE ASSURED LIVES

a. Life Table

x	m_x	q_x	l_x	d_x	L_x	T_x	e_x
20	0.0002101	0.0002101	1,000,000	210	999,895	66,982,943	67
21	0.0006707	0.0006705	999,790	670	999,455	65,983,048	66
22	0.0013850	0.0013841	999,120	1,382	998,429	64,983,593	65
23	0.0017578	0.0017563	997,738	1,752	996,862	63,985,164	64
24	0.0014443	0.0014432	995,986	1,437	995,268	62,988,302	63
25	0.0008428	0.0008424	994,549	837	994,131	61,993,035	62
26	0.0004225	0.0004224	993,712	419	993,503	60,998,904	61
27	0.0002597	0.0002597	993,293	257	993,165	60,005,402	60
28	0.0002368	0.0002368	993,036	235	992,919	59,012,237	59
29	0.0002636	0.0002636	992,801	261	992,671	58,019,319	58
30	0.0003069	0.0003068	992,540	304	992,388	57,026,648	57
31	0.0003591	0.0003591	992,236	356	992,058	56,034,260	56
32	0.0004199	0.0004198	991,880	416	991,672	55,042,202	55
33	0.0004899	0.0004897	991,464	485	991,222	54,050,530	55
34	0.0005702	0.0005700	990,979	564	990,697	53,059,309	54
35	0.0006618	0.0006616	990,415	655	990,088	52,068,612	53
36	0.0007658	0.0007656	989,760	757	989,382	51,078,524	52
37	0.0008831	0.0008827	989,003	872	988,567	50,089,143	51
38	0.0010143	0.0010137	988,131	1,001	987,631	49,100,576	50
39	0.0011598	0.0011591	987,130	1,144	986,558	48,112,945	49
40	0.0013198	0.0013189	985,986	1,300	985,336	47,126,387	48
41	0.0014938	0.0014927	984,686	1,469	983,952	46,141,051	47

x	m_x	q_x	l_x	d_x	L_x	T_x	e_x
42	0.0016811	0.0016797	983,217	1,651	982,392	45,157,100	46
43	0.0018803	0.0018786	981,566	1,843	980,645	44,174,708	45
44	0.0020895	0.0020873	979,723	2,044	978,701	43,194,064	44
45	0.0023062	0.0023035	977,679	2,252	976,553	42,215,363	43
46	0.0025276	0.0025244	975,427	2,462	974,196	41,238,810	42
47	0.0027507	0.0027469	972,965	2,672	971,629	40,264,614	41
48	0.0029724	0.0029680	970,293	2,879	968,854	39,292,985	40
49	0.0031895	0.0031844	967,414	3,080	965,874	38,324,131	40
50	0.0033993	0.0033935	964,334	3,272	962,698	37,358,257	39
51	0.0035993	0.0035928	961,062	3,452	959,336	36,395,559	38
52	0.0037875	0.0037804	957,610	3,620	955,800	35,436,223	37
53	0.0039626	0.0039548	953,990	3,772	952,104	34,480,423	36
54	0.0041236	0.0041151	950,218	3,910	948,263	33,528,319	35
55	0.0042702	0.0042611	946,308	4,032	944,292	32,580,056	34
56	0.0044024	0.0043928	942,276	4,139	940,207	31,635,764	34
57	0.0045207	0.0045105	938,137	4,231	936,022	30,695,558	33
58	0.0046256	0.0046149	933,906	4,309	931,752	29,759,536	32
59	0.0047182	0.0047070	929,597	4,375	927,410	28,827,785	31
60	0.0047993	0.0047878	925,222	4,429	923,008	27,900,375	30
61	0.0048700	0.0048581	920,793	4,473	918,557	26,977,368	29
62	0.0049314	0.0049192	916,320	4,507	914,067	26,058,811	28
63	0.0049845	0.0049721	911,813	4,533	909,547	25,144,745	28
64	0.0050302	0.0050176	907,280	4,552	905,004	24,235,198	27
65	0.0050695	0.0050567	902,728	4,564	900,446	23,330,194	26
66	0.0051550	0.0051417	898,164	4,618	895,855	22,429,748	25
67	0.0052819	0.0052679	893,546	4,707	891,193	21,533,893	24
68	0.0054531	0.0054382	888,839	4,833	886,423	20,642,701	23
69	0.0056727	0.0056567	884,006	5,000	881,506	19,756,278	22
70	0.0059462	0.0059285	879,006	5,211	876,401	18,874,772	21

x	m_x	q_x	l_x	d_x	L_x	T_x	e_x
71	0.0062803	0.0062606	873,795	5,470	871,060	17,998,372	21
72	0.0066837	0.0066614	868,325	5,784	865,433	17,127,312	20
73	0.0071672	0.0071415	862,541	6,159	859,462	16,261,879	19
74	0.0077442	0.0077143	856,382	6,606	853,079	15,402,417	18
75	0.0084314	0.0083959	849,776	7,134	846,209	14,549,338	17
76	0.0092495	0.0092069	842,642	7,758	838,763	13,703,129	16
77	0.0102243	0.0101722	834,884	8,492	830,638	12,864,366	15
78	0.0113879	0.0113233	826,392	9,357	821,714	12,033,728	15
79	0.0127806	0.0126993	817,035	10,375	811,848	11,212,015	14
80	0.0144528	0.0143489	806,660	11,574	800,873	10,400,167	13
81	0.0164684	0.0163335	795,086	12,986	788,593	9,599,294	12
82	0.0189079	0.0187303	782,100	14,648	774,776	8,810,701	11
83	0.0218743	0.0216368	767,452	16,605	759,150	8,035,925	10
84	0.0254987	0.0251764	750,847	18,903	741,396	7,276,776	10
85	0.0299501	0.0295061	731,944	21,596	721,146	6,535,380	9
86	0.0354466	0.0348257	710,348	24,738	697,979	5,814,234	8
87	0.0422714	0.0413904	685,610	28,377	671,422	5,116,255	7
88	0.0507942	0.0495257	657,233	32,549	640,959	4,444,834	7
89	0.0615002	0.0596473	624,684	37,260	606,054	3,803,875	6
90	0.0750301	0.0722844	587,424	42,461	566,194	3,197,821	5
91	0.0922338	0.0881080	544,963	48,015	520,956	2,631,628	5
92	0.1142457	0.1079612	496,948	53,651	470,123	2,110,672	4
93	0.1425888	0.1328895	443,297	58,909	413,843	1,640,550	4
94	0.1793192	0.1641610	384,388	63,101	352,838	1,226,707	3
95	0.227229	0.2032617	321,287	65,305	288,635	873,870	3
96	0.2901326	0.2518356	255,982	64,465	223,750	585,235	2
97	0.3732715	0.3115217	191,517	59,661	161,687	361,486	2
98	0.4838923	0.3836204	131,856	50,582	106,565	199,799	2
99	0.6320746	0.4685120	81,274	38,077	62,236	93,234	1

x	m_x	q_x	l_x	d_x	L_x	T_x	e_x
100	0.8319240	0.5647888	43,197	24,397	30,999	30,999	1

b. Monetary Functions

i. Table of Monetary Functions $i = 1\%$

x	D_x	N_x	S_x	C_x	M_x	R_x
20	819,544	40,003,535	1,254,662,222	170	407,658	26,300,341
21	811,260	39,183,991	1,214,658,687	538	407,487	25,892,684
22	802,689	38,372,731	1,175,474,696	1,099	406,949	25,485,196
23	793,642	37,570,042	1,137,101,965	1,380	405,850	25,078,247
24	784,405	36,776,399	1,099,531,924	1,121	404,470	24,672,398
25	775,518	35,991,994	1,062,755,525	646	403,349	24,267,928
26	767,193	35,216,476	1,026,763,530	320	402,703	23,864,579
27	759,277	34,449,283	991,547,054	195	402,383	23,461,876
28	751,565	33,690,006	957,097,771	176	402,188	23,059,493
29	743,948	32,938,441	923,407,765	194	402,012	22,657,305
30	736,388	32,194,493	890,469,324	223	401,819	22,255,293
31	728,874	31,458,105	858,274,831	259	401,595	21,853,474
32	721,398	30,729,231	826,816,726	300	401,336	21,451,879
33	713,956	30,007,833	796,087,495	346	401,037	21,050,543
34	706,542	29,293,877	766,079,662	398	400,691	20,649,506
35	699,148	28,587,335	736,785,785	458	400,293	20,248,815
36	691,768	27,888,187	708,198,450	524	399,835	19,848,522
37	684,395	27,196,419	680,310,263	597	399,311	19,448,687
38	677,021	26,512,024	653,113,844	679	398,714	19,049,376
39	669,639	25,835,003	626,601,820	768	398,035	18,650,662
40	662,241	25,165,364	600,766,817	865	397,266	18,252,628
41	654,819	24,503,123	575,601,453	967	396,402	17,855,361
42	647,369	23,848,304	551,098,330	1,076	395,435	17,458,960

x	D_x	N_x	S_x	C_x	M_x	R_x
43	639,883	23,200,935	527,250,026	1,190	394,358	17,063,525
44	632,358	22,561,052	504,049,091	1,306	393,169	16,669,167
45	624,791	21,928,695	481,488,039	1,425	391,862	16,275,998
46	617,180	21,303,904	459,559,344	1,542	390,438	15,884,136
47	609,527	20,686,724	438,255,440	1,657	388,895	15,493,698
48	601,834	20,077,198	417,568,715	1,768	387,238	15,104,803
49	594,108	19,475,364	397,491,518	1,873	385,470	14,717,565
50	586,353	18,881,256	378,016,154	1,970	383,597	14,332,095
51	578,577	18,294,904	359,134,898	2,058	381,627	13,948,498
52	570,791	17,716,326	340,839,994	2,136	379,570	13,566,871
53	563,003	17,145,535	323,123,668	2,204	377,433	13,187,301
54	555,225	16,582,532	305,978,133	2,262	375,229	12,809,868
55	547,466	16,027,307	289,395,601	2,310	372,967	12,434,638
56	539,736	15,479,841	273,368,295	2,347	370,658	12,061,671
57	532,045	14,940,105	257,888,454	2,376	368,310	11,691,013
58	524,401	14,408,061	242,948,348	2,396	365,935	11,322,703
59	516,813	13,883,660	228,540,288	2,408	363,539	10,956,768
60	509,288	13,366,846	214,656,628	2,414	361,131	10,593,229
61	501,832	12,857,558	201,289,782	2,414	358,717	10,232,098
62	494,450	12,355,726	188,432,223	2,408	356,303	9,873,382
63	487,146	11,861,277	176,076,497	2,398	353,895	9,517,078
64	479,925	11,374,131	164,215,220	2,384	351,498	9,163,183
65	472,789	10,894,206	152,841,089	2,367	349,114	8,811,685
66	465,742	10,421,417	141,946,883	2,371	346,747	8,462,572
67	458,759	9,955,675	131,525,467	2,393	344,376	8,115,825
68	451,824	9,496,916	121,569,792	2,432	341,983	7,771,449
69	444,918	9,045,091	112,072,876	2,492	339,551	7,429,465
70	438,022	8,600,173	103,027,785	2,571	337,059	7,089,915
71	431,114	8,162,151	94,427,612	2,672	334,488	6,752,855

x	D_x	N_x	S_x	C_x	M_x	R_x
72	424,173	7,731,037	86,265,461	2,797	331,816	6,418,367
73	417,176	7,306,864	78,534,424	2,949	329,019	6,086,551
74	410,096	6,889,688	71,227,560	3,132	326,069	5,757,532
75	402,904	6,479,591	64,337,872	3,349	322,937	5,431,463
76	395,566	6,076,687	57,858,281	3,606	319,588	5,108,526
77	388,043	5,681,122	51,781,594	3,908	315,982	4,788,938
78	380,294	5,293,078	46,100,472	4,263	312,075	4,472,955
79	372,265	4,912,785	40,807,394	4,680	307,811	4,160,881
80	363,899	4,540,520	35,894,609	5,170	303,131	3,853,070
81	355,126	4,176,621	31,354,089	5,743	297,961	3,549,939
82	345,867	3,821,495	27,177,468	6,414	292,219	3,251,977
83	336,029	3,475,627	23,355,973	7,199	285,805	2,959,759
84	325,504	3,139,598	19,880,346	8,114	278,606	2,673,954
85	314,167	2,814,094	16,740,748	9,178	270,493	2,395,348
86	301,879	2,499,927	13,926,654	10,409	261,315	2,124,855
87	288,481	2,198,048	11,426,727	11,822	250,906	1,863,540
88	273,803	1,909,566	9,228,679	13,426	239,084	1,612,634
89	257,667	1,635,763	7,319,113	15,217	225,659	1,373,549
90	239,899	1,378,097	5,683,350	17,169	210,442	1,147,891
91	220,355	1,138,198	4,305,253	19,223	193,273	937,449
92	198,950	917,843	3,167,055	21,266	174,050	744,176
93	175,714	718,893	2,249,212	23,119	152,784	570,125
94	150,855	543,179	1,530,318	24,519	129,665	417,341
95	124,843	392,323	987,140	25,124	105,146	287,676
96	98,482	267,481	594,816	24,556	80,022	182,530
97	72,951	168,999	327,335	22,501	55,466	102,509
98	49,728	96,047	158,337	18,888	32,965	47,043
99	30,348	46,319	62,289	14,077	14,077	14,077
100	15,970	15,970	15,970	0	0	0

ii. Table of Monetary Functions $i = 2\%$

x	D_x	N_x	S_x	C_x	M_x	R_x
20	672,971	24,851,626	679,396,722	139	179,839	11,056,620
21	659,637	24,178,655	654,545,096	433	179,700	10,876,781
22	646,270	23,519,017	630,366,441	876	179,267	10,697,081
23	632,721	22,872,747	606,847,424	1,089	178,391	10,517,814
24	619,226	22,240,026	583,974,677	876	177,301	10,339,424
25	606,208	21,620,800	561,734,651	500	176,425	10,162,122
26	593,822	21,014,592	540,113,851	245	175,925	9,985,697
27	581,933	20,420,770	519,099,259	148	175,680	9,809,772
28	570,375	19,838,837	498,678,489	132	175,532	9,634,092
29	559,058	19,268,463	478,839,651	144	175,400	9,458,560
30	547,952	18,709,404	459,571,189	165	175,256	9,283,160
31	537,044	18,161,452	440,861,784	189	175,091	9,107,904
32	526,325	17,624,408	422,700,332	216	174,902	8,932,813
33	515,788	17,098,084	405,075,924	247	174,686	8,757,911
34	505,427	16,582,296	387,977,841	282	174,438	8,583,225
35	495,235	16,076,868	371,395,545	321	174,156	8,408,787
36	485,203	15,581,633	355,318,677	364	173,835	8,234,630
37	475,326	15,096,430	339,737,043	411	173,472	8,060,795
38	465,595	14,621,105	324,640,613	462	173,061	7,887,323
39	456,003	14,155,510	310,019,509	518	172,598	7,714,263
40	446,544	13,699,507	295,863,999	577	172,080	7,541,665
41	437,211	13,252,963	282,164,492	639	171,503	7,369,584
42	427,998	12,815,753	268,911,528	705	170,863	7,198,082
43	418,902	12,387,754	256,095,776	771	170,159	7,027,218
44	409,917	11,968,853	243,708,021	838	169,388	6,857,059
45	401,041	11,558,936	231,739,169	906	168,549	6,687,671
46	392,272	11,157,895	220,180,233	971	167,644	6,519,122
47	383,609	10,765,623	209,022,338	1,033	166,673	6,351,479

x	D_x	N_x	S_x	C_x	M_x	R_x
48	375,055	10,382,014	198,256,715	1,091	165,640	6,184,806
49	366,610	10,006,959	187,874,701	1,144	164,549	6,019,165
50	358,277	9,640,350	177,867,741	1,192	163,405	5,854,616
51	350,060	9,282,073	168,227,392	1,233	162,213	5,691,212
52	341,963	8,932,013	158,945,319	1,267	160,980	5,528,999
53	333,991	8,590,049	150,013,307	1,295	159,713	5,368,018
54	326,147	8,256,058	141,423,258	1,316	158,418	5,208,305
55	318,437	7,929,911	133,167,200	1,330	157,103	5,049,887
56	310,863	7,611,474	125,237,289	1,339	155,772	4,892,784
57	303,429	7,300,611	117,625,815	1,342	154,434	4,737,012
58	296,137	6,997,183	110,325,204	1,340	153,092	4,582,579
59	288,991	6,701,045	103,328,021	1,333	151,752	4,429,487
60	281,991	6,412,054	96,626,976	1,323	150,419	4,277,734
61	275,139	6,130,063	90,214,921	1,310	149,096	4,127,315
62	268,433	5,854,924	84,084,858	1,294	147,785	3,978,219
63	261,876	5,586,491	78,229,934	1,276	146,491	3,830,434
64	255,464	5,324,615	72,643,443	1,257	145,214	3,683,943
65	249,199	5,069,151	67,318,828	1,235	143,958	3,538,729
66	243,077	4,819,952	62,249,677	1,225	142,723	3,394,771
67	237,086	4,576,875	57,429,724	1,224	141,497	3,252,048
68	231,213	4,339,789	52,852,849	1,233	140,273	3,110,551
69	225,446	4,108,577	48,513,060	1,250	139,040	2,970,278
70	219,776	3,883,130	44,404,483	1,277	137,790	2,831,238
71	214,189	3,663,355	40,521,353	1,315	136,513	2,693,447
72	208,675	3,449,166	36,857,998	1,363	135,198	2,556,934
73	203,220	3,240,491	33,408,833	1,423	133,836	2,421,736
74	197,813	3,037,270	30,168,342	1,496	132,413	2,287,900
75	192,438	2,839,457	27,131,071	1,584	130,917	2,155,488
76	187,081	2,647,019	24,291,614	1,689	129,333	2,024,571

x	D_x	N_x	S_x	C_x	M_x	R_x
77	181,724	2,459,938	21,644,595	1,812	127,644	1,895,237
78	176,349	2,278,214	19,184,657	1,958	125,832	1,767,593
79	170,933	2,101,865	16,906,443	2,128	123,875	1,641,761
80	165,454	1,930,931	14,804,579	2,327	121,747	1,517,886
81	159,882	1,765,477	12,873,647	2,560	119,419	1,396,139
82	154,187	1,605,595	11,108,170	2,831	116,859	1,276,720
83	148,333	1,451,408	9,502,574	3,146	114,028	1,159,861
84	142,278	1,303,075	8,051,166	3,512	110,882	1,045,833
85	135,976	1,160,798	6,748,091	3,933	107,370	934,951
86	129,377	1,024,821	5,587,293	4,417	103,437	827,581
87	122,423	895,445	4,562,472	4,968	99,019	724,145
88	115,055	773,022	3,667,028	5,586	94,052	625,125
89	107,212	657,967	2,894,006	6,269	88,465	531,074
90	98,841	550,755	2,236,039	7,004	82,196	442,608
91	89,898	451,914	1,685,284	7,765	75,192	360,412
92	80,370	362,016	1,233,370	8,507	67,426	285,221
93	70,288	281,645	871,355	9,157	58,919	217,794
94	59,752	211,358	589,709	9,617	49,762	158,875
95	48,964	151,606	378,351	9,757	40,146	109,113
96	38,247	102,642	226,746	9,443	30,388	68,967
97	28,054	64,395	124,104	8,568	20,945	38,579
98	18,936	36,341	59,709	7,122	12,378	17,633
99	11,443	17,405	23,368	5,256	5,256	5,256
100	5,963	5,963	5,963	0	0	0

iii. Table of Monetary Functions $i = 3\%$

x	D_x	N_x	S_x	C_x	M_x	R_x
20	553,676	16,095,529	382,884,350	113	82,692	4,766,799
21	537,436	15,541,853	366,788,822	350	82,579	4,684,108
22	521,433	15,004,416	351,246,969	700	82,229	4,601,529
23	505,546	14,482,983	336,242,552	862	81,529	4,519,299
24	489,959	13,977,438	321,759,569	686	80,667	4,437,771
25	475,002	13,487,478	307,782,132	388	79,981	4,357,103
26	460,779	13,012,476	294,294,653	189	79,593	4,277,123
27	447,170	12,551,697	281,282,177	112	79,404	4,197,530
28	434,033	12,104,528	268,730,479	100	79,292	4,118,126
29	421,291	11,670,495	256,625,952	108	79,192	4,038,834
30	408,913	11,249,203	244,955,457	122	79,084	3,959,642
31	396,882	10,840,290	233,706,254	138	78,963	3,880,558
32	385,184	10,443,408	222,865,964	157	78,825	3,801,595
33	373,808	10,058,225	212,422,556	178	78,668	3,722,770
34	362,743	9,684,417	202,364,331	200	78,490	3,644,103
35	351,977	9,321,674	192,679,915	226	78,290	3,565,612
36	341,499	8,969,697	183,358,241	254	78,064	3,487,323
37	331,299	8,628,197	174,388,544	284	77,810	3,409,259
38	321,366	8,296,898	165,760,347	316	77,527	3,331,449
39	311,690	7,975,532	157,463,448	351	77,211	3,253,922
40	302,261	7,663,842	149,487,916	387	76,860	3,176,711
41	293,070	7,361,582	141,824,074	424	76,473	3,099,852
42	284,110	7,068,512	134,462,492	463	76,048	3,023,379
43	275,371	6,784,402	127,393,980	502	75,585	2,947,330
44	266,849	6,509,031	120,609,578	541	75,083	2,871,745
45	258,536	6,242,182	114,100,548	578	74,543	2,796,662
46	250,428	5,983,646	107,858,366	614	73,965	2,722,119
47	242,520	5,733,218	101,874,721	647	73,351	2,648,154

x	D_x	N_x	S_x	C_x	M_x	R_x
48	234,810	5,490,698	96,141,503	676	72,704	2,574,803
49	227,294	5,255,888	90,650,805	703	72,028	2,502,099
50	219,971	5,028,594	85,394,917	725	71,325	2,430,071
51	212,840	4,808,622	80,366,323	742	70,601	2,358,746
52	205,898	4,595,783	75,557,701	756	69,858	2,288,145
53	199,146	4,389,884	70,961,918	764	69,103	2,218,287
54	192,581	4,190,738	66,572,034	769	68,338	2,149,184
55	186,202	3,998,158	62,381,296	770	67,569	2,080,846
56	180,009	3,811,955	58,383,138	768	66,799	2,013,277
57	173,998	3,631,947	54,571,183	762	66,031	1,946,478
58	168,168	3,457,948	50,939,236	753	65,269	1,880,447
59	162,517	3,289,780	47,481,288	743	64,516	1,815,178
60	157,041	3,127,263	44,191,508	730	63,773	1,750,662
61	151,737	2,970,222	41,064,245	716	63,043	1,686,889
62	146,602	2,818,486	38,094,022	700	62,328	1,623,845
63	141,632	2,671,884	35,275,537	684	61,628	1,561,517
64	136,823	2,530,252	32,603,653	666	60,944	1,499,890
65	132,171	2,393,429	30,073,401	649	60,278	1,438,946
66	127,673	2,261,258	27,679,972	637	59,629	1,378,668
67	123,317	2,133,585	25,418,714	631	58,992	1,319,039
68	119,095	2,010,268	23,285,129	629	58,361	1,260,048
69	114,997	1,891,173	21,274,861	631	57,732	1,201,687
70	111,016	1,776,176	19,383,688	639	57,101	1,143,955
71	107,144	1,665,160	17,607,512	651	56,462	1,086,854
72	103,372	1,558,016	15,942,352	669	55,810	1,030,392
73	99,692	1,454,645	14,384,335	691	55,142	974,582
74	96,098	1,354,952	12,929,691	720	54,451	919,440
75	92,579	1,258,854	11,574,739	755	53,731	864,989
76	89,128	1,166,275	10,315,884	797	52,977	811,258

x	D_x	N_x	S_x	C_x	M_x	R_x
77	85,735	1,077,147	9,149,609	847	52,180	758,281
78	82,392	991,412	8,072,461	906	51,333	706,101
79	79,086	909,021	7,081,049	975	50,428	654,768
80	75,808	829,935	6,172,029	1,056	49,453	604,341
81	72,544	754,127	5,342,094	1,150	48,397	554,888
82	69,280	681,583	4,587,967	1,260	47,246	506,492
83	66,003	612,303	3,906,384	1,386	45,986	459,245
84	62,694	546,300	3,294,081	1,532	44,600	413,259
85	59,335	483,607	2,747,780	1,700	43,068	368,659
86	55,907	424,271	2,264,174	1,890	41,368	325,591
87	52,389	368,364	1,839,902	2,105	39,478	284,224
88	48,758	315,975	1,471,539	2,344	37,372	244,746
89	44,993	267,217	1,155,564	2,606	35,028	207,374
90	41,077	222,224	888,346	2,883	32,423	172,346
91	36,998	181,147	666,123	3,165	29,540	139,923
92	32,756	144,149	484,976	3,433	26,375	110,383
93	28,368	111,393	340,827	3,660	22,942	84,008
94	23,882	83,025	229,434	3,806	19,282	61,067
95	19,380	59,143	146,410	3,824	15,475	41,785
96	14,991	39,763	87,267	3,665	11,651	26,310
97	10,889	24,771	47,505	3,293	7,986	14,659
98	7,279	13,882	22,733	2,711	4,692	6,673
99	4,356	6,603	8,851	1,981	1,981	1,981
100	2,248	2,248	2,248	0	0	0

iv. Table of Monetary Functions $i = 4\%$

x	D_x	N_x	S_x	C_x	M_x	R_x
20	456,387	10,806,870	224,263,052	92	39,916	2,114,753
21	438,741	10,350,483	213,456,182	283	39,824	2,074,837
22	421,584	9,911,741	203,105,699	561	39,541	2,035,013
23	404,809	9,490,157	193,193,958	683	38,980	1,995,473
24	388,556	9,085,349	183,703,801	539	38,297	1,956,493
25	373,072	8,696,793	174,618,452	302	37,758	1,918,196
26	358,421	8,323,721	165,921,659	145	37,456	1,880,438
27	344,490	7,965,300	157,597,938	86	37,310	1,842,983
28	331,155	7,620,809	149,632,638	75	37,225	1,805,672
29	318,343	7,289,654	142,011,829	80	37,149	1,768,448
30	306,019	6,971,311	134,722,175	90	37,069	1,731,298
31	294,159	6,665,293	127,750,864	101	36,979	1,694,229
32	282,743	6,371,134	121,085,571	114	36,877	1,657,251
33	271,755	6,088,391	114,714,437	128	36,763	1,620,373
34	261,175	5,816,636	108,626,046	143	36,635	1,583,610
35	250,986	5,555,462	102,809,410	160	36,492	1,546,975
36	241,174	5,304,475	97,253,949	177	36,333	1,510,482
37	231,720	5,063,302	91,949,473	196	36,156	1,474,149
38	222,612	4,831,581	86,886,172	217	35,959	1,437,994
39	213,833	4,608,970	82,054,590	238	35,742	1,402,035
40	205,370	4,395,137	77,445,621	260	35,504	1,366,293
41	197,211	4,189,767	73,050,484	283	35,244	1,330,789
42	189,343	3,992,556	68,860,717	306	34,961	1,295,545
43	181,755	3,803,213	64,868,160	328	34,655	1,260,584
44	174,436	3,621,458	61,064,947	350	34,327	1,225,929
45	167,377	3,447,022	57,443,489	371	33,977	1,191,603
46	160,569	3,279,645	53,996,467	390	33,606	1,157,626
47	154,003	3,119,076	50,716,821	407	33,217	1,124,019

x	D_x	N_x	S_x	C_x	M_x	R_x
48	147,674	2,965,073	47,597,745	421	32,810	1,090,803
49	141,572	2,817,399	44,632,672	433	32,389	1,057,993
50	135,694	2,675,827	41,815,272	443	31,955	1,025,605
51	130,032	2,540,133	39,139,445	449	31,512	993,649
52	124,582	2,410,101	36,599,312	453	31,063	962,137
53	119,337	2,285,519	34,189,211	454	30,610	931,074
54	114,294	2,166,181	31,903,693	452	30,157	900,463
55	109,446	2,051,888	29,737,511	448	29,705	870,306
56	104,788	1,942,442	27,685,624	443	29,256	840,602
57	100,315	1,837,654	25,743,182	435	28,814	811,346
58	96,022	1,737,339	23,905,528	426	28,379	782,532
59	91,903	1,641,317	22,168,189	416	27,953	754,153
60	87,952	1,549,415	20,526,872	405	27,537	726,201
61	84,164	1,461,463	18,977,457	393	27,132	698,664
62	80,534	1,377,298	17,515,994	381	26,739	671,532
63	77,056	1,296,764	16,138,696	368	26,358	644,794
64	73,724	1,219,708	14,841,932	356	25,990	618,436
65	70,533	1,145,985	13,622,224	343	25,634	592,446
66	67,477	1,075,452	12,476,239	334	25,291	566,812
67	64,548	1,007,975	11,400,787	327	24,957	541,521
68	61,738	943,427	10,392,812	323	24,630	516,564
69	59,041	881,688	9,449,385	321	24,308	491,934
70	56,449	822,647	8,567,697	322	23,987	467,626
71	53,956	766,198	7,745,050	325	23,665	443,639
72	51,556	712,242	6,978,852	330	23,340	419,975
73	49,243	660,685	6,266,610	338	23,010	396,635
74	47,011	611,442	5,605,924	349	22,672	373,625
75	44,854	564,431	4,994,482	362	22,323	350,953
76	42,767	519,577	4,430,051	379	21,961	328,630

x	D_x	N_x	S_x	C_x	M_x	R_x
77	40,744	476,810	3,910,474	398	21,582	306,669
78	38,778	436,066	3,433,664	422	21,184	285,087
79	36,864	397,288	2,997,598	450	20,762	263,903
80	34,996	360,424	2,600,310	483	20,312	243,141
81	33,168	325,427	2,239,886	521	19,829	222,830
82	31,371	292,260	1,914,459	565	19,308	203,001
83	29,599	260,889	1,622,199	616	18,743	183,693
84	27,845	231,289	1,361,310	674	18,127	164,950
85	26,100	203,444	1,130,021	740	17,453	146,823
86	24,356	177,344	926,577	816	16,713	129,370
87	22,604	152,988	749,233	900	15,897	112,658
88	20,835	130,384	596,245	992	14,997	96,761
89	19,041	109,550	465,860	1,092	14,005	81,763
90	17,217	90,509	356,310	1,197	12,913	67,758
91	15,358	73,292	265,801	1,301	11,717	54,845
92	13,466	57,934	192,509	1,398	10,416	43,128
93	11,550	44,468	134,575	1,476	9,018	32,713
94	9,630	32,918	90,108	1,520	7,542	23,695
95	7,740	23,287	57,190	1,513	6,022	16,153
96	5,929	15,548	33,903	1,436	4,509	10,132
97	4,266	9,618	18,355	1,278	3,073	5,623
98	2,824	5,353	8,737	1,042	1,796	2,549
99	1,674	2,529	3,384	754	754	754
100	855	855	855	0	0	0

v. Table of Monetary Functions $i = 5\%$

x	D_x	N_x	S_x	C_x	M_x	R_x
20	376,889	7,480,534	136,206,359	75	20,361	969,177
21	358,867	7,103,645	128,725,824	229	20,285	948,816
22	341,549	6,744,778	121,622,180	450	20,056	928,530
23	324,835	6,403,229	114,877,402	543	19,606	908,474
24	308,823	6,078,394	108,474,173	424	19,063	888,868
25	29693	5,769,571	102,395,779	235	18,639	869,805
26	279,472	5,475,878	96,626,208	112	18,403	851,166
27	266,052	5,196,405	91,150,331	66	18,291	832,763
28	253,317	4,930,353	85,953,925	57	18,226	814,471
29	241,197	4,677,036	81,023,572	60	18,168	796,246
30	229,651	4,435,839	76,346,536	67	18,108	778,077
31	218,649	4,206,188	71,910,697	75	18,041	759,969
32	208,162	3,987,539	67,704,509	83	17,966	741,928
33	198,166	3,779,377	63,716,970	92	17,883	723,962
34	188,638	3,581,210	59,937,593	102	17,791	706,079
35	179,553	3,392,573	56,356,383	113	17,689	688,288
36	170,889	3,213,020	52,963,810	124	17,576	670,599
37	162,627	3,042,131	49,750,790	137	17,451	653,023
38	154,747	2,879,504	46,708,659	149	17,315	635,572
39	147,228	2,724,757	43,829,155	163	17,165	618,258
40	140,055	2,577,528	41,104,398	176	17,003	601,092
41	133,210	2,437,473	38,526,870	189	16,827	584,090
42	126,677	2,304,264	36,089,397	203	16,638	567,263
43	120,442	2,177,586	33,785,133	215	16,435	550,625
44	114,492	2,057,144	31,607,547	227	16,220	534,190
45	108,812	1,942,652	29,550,403	239	15,992	517,970
46	103,392	1,833,840	27,607,751	249	15,753	501,978
47	98,220	1,730,448	25,773,911	257	15,505	486,225

x	D_x	N_x	S_x	C_x	M_x	R_x
48	93,286	1,632,228	24,043,464	264	15,248	470,720
49	88,580	1,538,942	22,411,236	269	14,984	455,472
50	84,094	1,450,361	20,872,294	272	14,716	440,487
51	79,817	1,366,268	19,421,933	273	14,444	425,772
52	75,743	1,286,451	18,055,665	273	14,171	411,327
53	71,864	1,210,707	16,769,214	271	13,898	397,156
54	68,171	1,138,843	15,558,507	267	13,628	383,258
55	64,658	1,070,672	14,419,664	262	13,361	369,630
56	61,317	1,006,014	13,348,992	257	13,098	356,270
57	58,140	944,698	12,342,978	250	12,842	343,171
58	55,122	886,558	11,398,280	242	12,592	330,330
59	52,255	831,436	10,511,723	234	12,350	317,738
60	49,532	779,181	9,680,287	226	12,116	305,388
61	46,948	729,649	8,901,106	217	11,890	293,272
62	44,495	682,701	8,171,458	208	11,673	281,383
63	42,168	638,206	7,488,757	200	11,464	269,710
64	39,960	596,038	6,850,551	191	11,264	258,246
65	37,866	556,078	6,254,513	182	11,074	246,982
66	35,881	518,212	5,698,434	176	10,891	235,908
67	33,996	482,331	5,180,223	171	10,715	225,017
68	32,207	448,335	4,697,891	167	10,545	214,302
69	30,507	416,128	4,249,557	164	10,378	203,757
70	28,890	385,621	3,833,429	163	10,214	193,378
71	27,351	356,731	3,447,808	163	10,051	183,165
72	25,885	329,381	3,091,077	164	9,888	173,114
73	24,488	303,495	2,761,696	167	9,723	163,226
74	23,156	279,007	2,458,201	170	9,557	153,503
75	21,883	255,851	2,179,194	175	9,387	143,946
76	20,666	233,968	1,923,342	181	9,212	134,559

x	D_x	N_x	S_x	C_x	M_x	R_x
77	19,501	213,302	1,689,374	189	9,031	125,347
78	18,383	193,802	1,476,072	198	8,842	116,317
79	17,310	175,418	1,282,270	209	8,643	107,475
80	16,276	158,109	1,106,852	222	8,434	98,832
81	15,279	141,833	948,743	238	8,212	90,398
82	14,313	126,554	806,910	255	7,974	82,186
83	13,376	112,241	680,356	276	7,719	74,212
84	12,464	98,865	568,115	299	7,443	66,493
85	11,571	86,401	469,251	325	7,144	59,050
86	10,695	74,829	382,850	355	6,819	51,906
87	9,831	64,134	308,020	388	6,464	45,087
88	8,976	54,303	243,886	423	6,077	38,622
89	8,125	45,327	189,583	462	5,654	32,545
90	7,276	37,203	144,256	501	5,192	26,892
91	6,429	29,926	107,054	539	4,691	21,700
92	5,583	23,497	77,127	574	4,152	17,009
93	4,743	17,914	53,630	600	3,578	12,857
94	3,917	13,170	35,716	612	2,977	9,280
95	3,118	9,253	22,546	604	2,365	6,303
96	2,366	6,135	13,293	567	1,761	3,938
97	1,686	3,769	7,158	500	1,194	2,177
98	1,105	2,083	3,389	404	693	983
99	649	977	1,306	290	290	290
100	328	328	328	0	0	0

vi. Table of Monetary Functions $i = 6\%$

x	D_x	N_x	S_x	C_x	M_x	R_x
20	311,805	5,311,656	85,528,392	62	11,025	460,697
21	294,094	4,999,851	80,216,737	186	10,963	449,672
22	277,261	4,705,757	75,216,886	362	10,777	438,709
23	261,205	4,428,496	70,511,129	433	10,415	427,932
24	245,987	4,167,291	66,082,633	335	9,983	417,517
25	231,729	3,921,304	61,915,342	184	9,648	407,534
26	218,428	3,689,575	57,994,038	87	9,464	397,886
27	205,977	3,471,148	54,304,462	50	9,377	388,422
28	194,268	3,265,170	50,833,314	43	9,327	379,045
29	183,228	3,070,903	47,568,144	45	9,283	369,719
30	172,811	2,887,675	44,497,241	50	9,238	360,435
31	162,980	2,714,863	41,609,567	55	9,188	351,197
32	153,699	2,551,884	38,894,703	61	9,133	342,010
33	144,938	2,398,185	36,342,820	67	9,072	332,877
34	136,667	2,253,246	33,944,635	73	9,005	323,805
35	128,858	2,116,579	31,691,389	80	8,932	314,800
36	121,484	1,987,721	29,574,810	88	8,851	305,868
37	114,520	1,866,237	27,587,089	95	8,764	297,017
38	107,942	1,751,717	25,720,853	103	8,668	288,253
39	101,729	1,643,775	23,969,136	111	8,565	279,585
40	95,860	1,542,045	22,325,361	119	8,454	271,019
41	90,314	1,446,186	20,783,316	127	8,335	262,565
42	85,075	1,355,871	19,337,130	135	8,208	254,231
43	80,125	1,270,796	17,981,259	142	8,073	246,023
44	75,448	1,190,671	16,710,463	148	7,931	237,950
45	71,028	1,115,224	15,519,792	154	7,782	230,019
46	66,854	1,044,195	14,404,568	159	7,628	222,236
47	62,910	977,342	13,360,373	163	7,469	214,608

x	D_x	N_x	S_x	C_x	M_x	R_x
48	59,186	914,431	12,383,031	166	7,306	207,139
49	55,670	855,245	11,468,600	167	7,140	199,833
50	52,352	799,574	10,613,355	168	6,973	192,693
51	49,221	747,222	9,813,781	167	6,805	185,720
52	46,268	698,001	9,066,558	165	6,639	178,915
53	43,484	651,733	8,368,557	162	6,474	172,276
54	40,861	608,248	7,716,824	159	6,312	165,802
55	38,389	567,388	7,108,576	154	6,153	159,491
56	36,062	528,998	6,541,188	149	5,999	153,338
57	33,871	492,936	6,012,190	144	5,849	147,339
58	31,810	459,065	5,519,253	138	5,705	141,490
59	29,871	427,255	5,060,188	133	5,567	135,785
60	28,047	397,384	4,632,933	127	5,434	130,218
61	26,333	369,337	4,235,549	121	5,307	124,785
62	24,722	343,004	3,866,212	115	5,187	119,477
63	23,208	318,282	3,523,208	109	5,072	114,291
64	21,785	295,074	3,204,927	103	4,963	109,219
65	20,449	273,288	2,909,853	98	4,860	104,256
66	19,194	252,839	2,636,565	93	4,762	99,396
67	18,015	233,645	2,383,726	90	4,669	94,633
68	16,905	215,630	2,150,081	87	4,580	89,964
69	15,862	198,725	1,934,451	85	4,493	85,384
70	14,879	182,863	1,735,726	83	4,408	80,891
71	13,954	167,984	1,552,863	82	4,325	76,483
72	13,082	154,030	1,384,879	82	4,243	72,158
73	12,259	140,949	1,230,848	83	4,161	67,915
74	11,482	128,690	1,089,900	84	4,078	63,754
75	10,749	117,207	961,210	85	3,994	59,676
76	10,055	106,458	844,003	87	3,909	55,682

x	D_x	N_x	S_x	C_x	M_x	R_x
77	9,399	96,403	737,545	90	3,822	51,773
78	8,777	87,004	641,142	94	3,732	47,951
79	8,186	78,228	554,137	98	3,638	44,219
80	7,625	70,041	475,910	103	3,540	40,581
81	7,090	62,417	405,869	109	3,437	37,041
82	6,579	55,327	343,452	116	3,328	33,604
83	6,091	48,748	288,125	124	3,211	30,277
84	5,622	42,657	239,378	134	3,087	27,065
85	5,170	37,035	196,721	144	2,953	23,978
86	4,733	31,865	159,685	156	2,810	21,025
87	4,310	27,132	127,820	168	2,654	18,216
88	3,898	22,822	100,688	182	2,486	15,561
89	3,495	18,925	77,866	197	2,304	13,076
90	3,100	15,430	58,941	211	2,107	10,772
91	2,714	12,329	43,512	226	1,896	8,665
92	2,334	9,616	31,182	238	1,670	6,770
93	1,964	7,281	21,567	246	1,432	5,100
94	1,607	5,317	14,286	249	1,186	3,667
95	1,267	3,710	8,969	243	937	2,481
96	952	2,443	5,259	226	694	1,544
97	672	1,490	2,817	198	468	850
98	437	818	1,326	158	270	382
99	254	381	509	112	112	112
100	127	127	127	0	0	0

vii. Table of Monetary Functions $i = 7\%$

x	D_x	N_x	S_x	C_x	M_x	R_x
20	258,419	3,852,432	55,344,414	51	6,344	228,001
21	241,462	3,594,013	51,491,982	151	6,293	221,657
22	225,515	3,352,551	47,897,968	292	6,142	215,363
23	210,470	3,127,036	44,545,418	345	5,851	209,221
24	196,355	2,916,566	41,418,381	265	5,505	203,370
25	183,245	2,720,211	38,501,815	144	5,241	197,865
26	171,113	2,536,966	35,781,604	67	5,096	192,624
27	159,851	2,365,854	33,244,637	39	5,029	187,528
28	149,355	2,206,003	30,878,784	33	4,990	182,499
29	139,551	2,056,648	28,672,781	34	4,957	177,509
30	130,387	1,917,097	26,616,133	37	4,923	172,551
31	121,820	1,786,710	24,699,036	41	4,886	167,628
32	113,809	1,664,890	22,912,327	45	4,845	162,742
33	106,319	1,551,081	21,247,437	49	4,800	157,898
34	99,315	1,444,761	19,696,356	53	4,752	153,097
35	92,765	1,345,446	18,251,595	57	4,699	148,346
36	86,639	1,252,681	16,906,149	62	4,641	143,647
37	80,909	1,166,042	15,653,468	67	4,580	139,005
38	75,549	1,085,133	14,487,426	72	4,513	134,426
39	70,535	1,009,583	13,402,294	76	4,441	129,913
40	65,845	939,048	12,392,711	81	4,365	125,472
41	61,456	873,203	11,453,663	86	4,284	121,107
42	57,350	811,747	10,580,460	90	4,198	116,823
43	53,508	754,398	9,768,712	94	4,108	112,625
44	49,913	700,890	9,014,314	97	4,014	108,517
45	46,551	650,977	8,313,425	100	3,917	104,502
46	43,405	604,426	7,662,448	102	3,817	100,585
47	40,463	561,021	7,058,022	104	3,714	96,769

x	D_x	N_x	S_x	C_x	M_x	R_x
48	37,712	520,558	6,497,001	105	3,610	93,054
49	35,140	482,845	5,976,444	105	3,506	89,444
50	32,737	447,705	5,493,598	104	3,401	85,938
51	30,491	414,968	5,045,893	102	3,298	82,537
52	28,394	384,477	4,630,925	100	3,195	79,239
53	26,436	356,082	4,246,449	98	3,095	76,044
54	24,609	329,646	3,890,367	95	2,997	72,949
55	22,905	305,036	3,560,721	91	2,903	69,952
56	21,315	282,132	3,255,685	88	2,811	67,049
57	19,833	260,817	2,973,553	84	2,724	64,238
58	18,452	240,983	2,712,736	80	2,640	61,514
59	17,165	222,531	2,471,753	76	2,561	58,874
60	15,967	205,366	2,249,221	71	2,485	56,313
61	14,851	189,399	2,043,855	67	2,414	53,828
62	13,812	174,548	1,854,456	63	2,346	51,414
63	12,845	160,737	1,679,908	60	2,283	49,068
64	11,945	147,892	1,519,171	56	2,223	46,785
65	11,107	135,947	1,371,279	52	2,167	44,562
66	10,328	124,840	1,235,332	50	2,115	42,395
67	9,603	114,511	1,110,493	47	2,065	40,280
68	8,927	104,908	995,982	45	2,018	38,215
69	8,298	95,981	891,073	44	1,972	36,198
70	7,711	87,683	795,092	43	1,929	34,225
71	7,164	79,972	707,409	42	1,886	32,297
72	6,654	72,808	627,438	41	1,844	30,411
73	6,177	66,154	554,630	41	1,802	28,567
74	5,731	59,977	488,476	41	1,761	26,765
75	5,315	54,246	428,499	42	1,720	25,003
76	4,926	48,931	374,253	42	1,678	23,284

x	D_x	N_x	S_x	C_x	M_x	R_x
77	4,561	44,005	325,323	43	1,636	21,605
78	4,219	39,444	281,318	45	1,592	19,969
79	3,899	35,224	241,874	46	1,548	18,377
80	3,597	31,325	206,650	48	1,502	16,829
81	3,314	27,728	175,325	51	1,453	15,328
82	3,046	24,414	147,597	53	1,403	13,874
83	2,794	21,368	123,183	56	1,349	12,472
84	2,555	18,574	101,815	60	1,293	11,122
85	2,327	16,019	83,241	64	1,233	9,829
86	2,111	13,692	67,222	69	1,169	8,597
87	1,904	11,581	53,529	74	1,100	7,428
88	1,706	9,677	41,948	79	1,026	6,328
89	1,515	7,971	32,271	84	947	5,302
90	1,332	6,456	24,300	90	863	4,354
91	1,155	5,124	17,844	95	773	3,492
92	984	3,970	12,720	99	678	2,719
93	820	2,986	8,750	102	579	2,041
94	665	2,165	5,765	102	477	1,462
95	519	1,500	3,600	99	375	986
96	387	981	2,099	91	276	611
97	270	594	1,118	79	185	335
98	174	324	524	62	106	150
99	100	150	200	44	44	44
100	50	50	50	0	0	0

viii. Table of Monetary Functions $i = 8\%$

x	D_x	N_x	S_x	C_x	M_x	R_x
20	214,548	2,843,920	36,782,389	42	3,869	117,826
21	198,614	2,629,372	33,938,470	123	3,828	113,956
22	183,779	2,430,757	31,309,098	235	3,704	110,129
23	169,930	2,246,979	28,878,341	276	3,469	106,424
24	15066	2,077,049	26,631,362	210	3,193	102,955
25	145,222	1,919,982	24,554,313	113	2,983	99,763
26	134,352	1,774,761	22,634,331	52	2,870	96,780
27	124,347	1,640,409	20,859,570	30	2,817	93,910
28	115,106	1,516,062	19,219,161	25	2,787	91,093
29	106,555	1,400,955	17,703,099	26	2,762	88,305
30	98,636	1,294,400	16,302,144	28	2,736	85,543
31	91,302	1,195,764	15,007,744	30	2,708	82,807
32	84,508	1,104,463	13,811,979	33	2,678	80,099
33	78,216	1,019,955	12,707,517	35	2,645	77,421
34	72,386	941,739	11,687,562	38	2,610	74,775
35	66,986	869,353	10,745,823	41	2,572	72,166
36	61,983	802,366	9,876,471	44	2,531	69,594
37	57,348	740,383	9,074,104	47	2,487	67,064
38	53,053	683,035	8,333,721	50	2,440	64,577
39	49,074	629,982	7,650,686	53	2,390	62,137
40	45,386	580,908	7,020,704	55	2,337	59,747
41	41,969	535,522	6,439,796	58	2,282	57,409
42	38,802	493,554	5,904,274	60	2,224	55,127
43	35,867	454,752	5,410,720	62	2,164	52,903
44	33,148	418,885	4,955,968	64	2,101	50,740
45	30,629	385,737	4,537,083	65	2,037	48,638
46	28,294	355,108	4,151,347	66	1,972	46,601
47	26,132	326,814	3,796,239	66	1,906	44,629

x	D_x	N_x	S_x	C_x	M_x	R_x
48	24,130	300,681	3,469,425	66	1,839	42,723
49	22,277	276,551	3,168,744	66	1,773	40,884
50	20,561	254,274	2,892,193	65	1,707	39,110
51	18,973	233,713	2,637,919	63	1,643	37,403
52	17,505	214,740	2,404,205	61	1,580	35,760
53	16,147	197,236	2,189,465	59	1,519	34,180
54	14,892	181,089	1,992,229	57	1,459	32,662
55	13,732	166,197	1,811,140	54	1,403	31,202
56	12,660	152,466	1,644,943	51	1,348	29,800
57	11,671	139,805	1,492,478	49	1,297	28,451
58	10,758	128,134	1,352,672	46	1,248	27,154
59	9,915	117,376	1,224,538	43	1,202	25,906
60	9,137	107,461	1,107,162	41	1,159	24,704
61	8,420	98,324	999,701	38	1,119	23,545
62	7,758	89,904	901,377	35	1,081	22,426
63	7,148	82,145	811,473	33	1,045	21,345
64	6,586	74,997	729,328	31	1,012	20,300
65	6,068	68,411	654,331	28	982	19,287
66	5,590	62,343	585,920	27	953	18,306
67	5,149	56,754	523,576	25	927	17,352
68	4,743	51,605	466,823	24	902	16,425
69	4,367	46,862	415,218	23	878	15,524
70	4,021	42,495	368,356	22	855	14,646
71	3,701	38,474	325,861	21	833	13,791
72	3,405	34,773	287,387	21	811	12,958
73	3,132	31,367	252,614	21	790	12,146
74	2,879	28,235	221,246	21	770	11,356
75	2,646	25,356	193,011	21	749	10,586
76	2,429	22,710	167,655	21	729	9,837

x	D_x	N_x	S_x	C_x	M_x	R_x
77	2,228	20,281	144,945	21	708	9,108
78	2,042	18,053	124,664	21	687	8,400
79	1,870	16,010	106,611	22	666	7,713
80	1,709	14,141	90,600	23	644	7,048
81	1,560	12,432	76,460	24	621	6,404
82	1,421	10,872	64,028	25	597	5,783
83	1,291	9,451	53,156	26	573	5,186
84	1,169	8,160	43,705	27	547	4,614
85	1,056	6,991	35,545	29	519	4,067
86	948	5,935	28,555	31	491	3,547
87	848	4,987	22,619	32	460	3,057
88	752	4,139	17,633	35	428	2,597
89	662	3,387	13,494	37	393	2,169
90	577	2,725	10,107	39	357	1,776
91	495	2,148	7,382	40	318	1,419
92	418	1,653	5,234	42	278	1,101
93	345	1,235	3,581	42	236	824
94	277	889	2,347	42	193	588
95	215	612	1,457	40	151	395
96	158	397	845	37	111	244
97	110	239	448	32	74	133
98	70	129	209	25	42	59
99	40	60	79	17	17	17
100	20	20	20	0	0	0

ix. Table of Monetary Functions $i = 9\%$

x	D_x	N_x	S_x	C_x	M_x	R_x
20	178,431	2,130,794	25,028,015	34	2,487	63,680
21	163,664	1,952,363	22,897,222	101	2,452	61,193
22	150,050	1,788,699	20,944,859	190	2,352	58,741
23	137,470	1,638,650	19,156,160	221	2,161	56,389
24	125,898	1,501,180	17,517,510	167	1,940	54,228
25	115,336	1,375,282	16,016,331	89	1,773	52,288
26	105,724	1,259,947	14,641,048	41	1,684	50,515
27	96,953	1,154,223	13,381,102	23	1,643	48,831
28	88,925	1,057,270	12,226,879	19	1,620	47,188
29	81,563	968,345	11,169,609	20	1,601	45,568
30	74,809	886,782	10,201,264	21	1,581	43,967
31	68,611	811,973	9,314,482	23	1,560	42,386
32	62,923	743,362	8,502,509	24	1,538	40,826
33	57,704	680,439	7,759,147	26	1,513	39,288
34	52,913	622,735	7,078,708	28	1,487	37,775
35	48,517	569,822	6,455,972	29	1,460	36,287
36	44,481	521,306	5,886,150	31	1,430	34,827
37	40,777	476,825	5,364,844	33	1,399	33,397
38	37,377	436,047	4,888,020	35	1,366	31,998
39	34,256	398,670	4,451,973	36	1,331	30,632
40	31,391	364,414	4,053,303	38	1,295	29,300
41	28,761	333,022	3,688,889	39	1,257	28,005
42	26,347	304,261	3,355,867	41	1,218	26,748
43	24,131	277,913	3,051,606	42	1,177	25,530
44	22,097	253,782	2,773,692	42	1,136	24,353
45	20,230	231,685	2,519,910	43	1,093	23,218
46	18,517	211,455	2,288,225	43	1,050	22,124
47	16,945	192,937	2,076,770	43	1,008	21,074

x	D_x	N_x	S_x	C_x	M_x	R_x
48	15,504	175,992	1,883,833	42	965	20,066
49	14,181	160,488	1,707,841	41	923	19,101
50	12,969	146,307	1,547,352	40	881	18,179
51	11,858	133,338	1,401,045	39	841	17,297
52	10,840	121,481	1,267,707	38	802	16,456
53	9,907	110,641	1,146,226	36	764	15,655
54	9,053	100,734	1,035,585	34	728	14,890
55	8,271	91,681	934,851	32	694	14,162
56	7,556	83,410	843,170	30	662	13,468
57	6,902	75,854	759,760	29	631	12,806
58	6,303	68,952	683,906	27	603	12,175
59	5,756	62,649	614,954	25	576	11,572
60	5,256	56,893	552,305	23	551	10,996
61	4,799	51,637	495,412	21	528	10,444
62	4,381	46,838	443,775	20	507	9,916
63	4,000	42,456	396,938	18	487	9,409
64	3,651	38,457	354,481	17	469	8,922
65	3,333	34,805	316,024	15	452	8,454
66	3,042	31,472	281,219	14	437	8,002
67	2,777	28,430	249,747	13	422	7,565
68	2,534	25,653	221,317	13	409	7,143
69	2,312	23,119	195,663	12	396	6,734
70	2,109	20,807	172,544	11	384	6,338
71	1,924	18,698	151,737	11	373	5,954
72	1,754	16,774	133,039	11	362	5,581
73	1,598	15,020	116,265	10	351	5,220
74	1,456	13,422	101,245	10	340	4,869
75	1,325	11,966	87,823	10	330	4,528
76	1,206	10,641	75,857	10	320	4,198

x	D_x	N_x	S_x	C_x	M_x	R_x
77	1,096	9,435	65,216	10	310	3,878
78	995	8,339	55,781	10	299	3,569
79	903	7,344	47,442	11	289	3,269
80	818	6,441	40,097	11	279	2,980
81	739	5,624	33,656	11	268	2,701
82	667	4,884	28,032	11	257	2,434
83	601	4,217	23,148	12	245	2,177
84	539	3,616	18,931	12	233	1,931
85	482	3,077	15,315	13	221	1,698
86	429	2,595	12,237	14	208	1,477
87	380	2,166	9,642	14	194	1,269
88	334	1,786	7,477	15	180	1,075
89	292	1,451	5,691	16	165	895
90	252	1,160	4,240	17	149	731
91	214	908	3,080	17	132	582
92	179	694	2,172	18	115	450
93	147	515	1,478	18	97	336
94	117	368	963	18	79	239
95	89	252	595	17	61	160
96	65	162	343	15	45	98
97	45	97	181	13	30	53
98	28	52	84	10	17	24
99	16	24	32	7	7	7
100	8	8	8	0	0	0

x. Table of Monetary Functions $i = 10\%$

x	D_x	N_x	S_x	C_x	M_x	R_x
20	148,644	1,616,665	17,384,893	28	1,671	35,989
21	135,102	1,468,021	15,768,228	82	1,643	34,318
22	122,738	1,332,919	14,300,207	154	1,561	32,675
23	111,426	1,210,181	12,967,288	178	1,406	31,114
24	101,118	1,098,755	11,757,107	133	1,228	29,708
25	91,793	997,637	10,658,352	70	1,096	28,480
26	83,378	905,844	9,660,714	32	1,026	27,384
27	75,766	822,467	8,754,870	18	994	26,358
28	68,860	746,701	7,932,403	15	976	25,365
29	62,586	677,840	7,185,703	15	961	24,389
30	56,881	615,254	6,507,863	16	946	23,428
31	51,694	558,373	5,892,608	17	930	22,482
32	46,978	506,679	5,334,235	18	913	21,552
33	42,689	459,701	4,827,556	19	895	20,639
34	38,789	417,012	4,367,854	20	876	19,744
35	35,243	378,223	3,950,842	21	856	18,867
36	32,018	342,980	3,572,619	22	835	18,011
37	29,085	310,962	3,229,639	23	813	17,176
38	26,418	281,877	2,918,678	24	790	16,363
39	23,992	255,459	2,636,801	25	765	15,573
40	21,785	231,468	2,381,341	26	740	14,808
41	19,779	209,682	2,149,874	27	714	14,068
42	17,954	189,904	1,940,191	27	687	13,355
43	16,294	171,950	1,750,288	28	660	12,668
44	14,785	155,656	1,578,338	28	632	12,008
45	13,413	140,871	1,422,682	28	604	11,376
46	12,166	127,458	1,281,811	28	576	10,773
47	11,032	115,292	1,154,354	28	548	10,197

x	D_x	N_x	S_x	C_x	M_x	R_x
48	10,001	104,260	1,039,062	27	520	9,649
49	9,065	94,259	934,802	26	493	9,129
50	8,215	85,194	840,542	25	467	8,636
51	7,443	76,979	755,348	24	442	8,169
52	6,742	69,537	678,369	23	417	7,727
53	6,106	62,795	608,832	22	394	7,310
54	5,529	56,689	546,037	21	372	6,916
55	5,005	51,161	489,348	19	352	6,543
56	4,531	46,155	438,187	18	332	6,192
57	4,101	41,624	392,032	17	314	5,860
58	3,711	37,524	350,407	16	297	5,546
59	3,358	33,812	312,884	14	282	5,249
60	3,039	30,454	279,072	13	267	4,967
61	2,749	27,415	248,618	12	254	4,700
62	2,487	24,666	221,203	11	242	4,445
63	2,250	22,179	196,537	10	231	4,204
64	2,035	19,929	174,358	9	221	3,973
65	1,841	17,894	154,429	8	211	3,752
66	1,665	16,053	136,535	8	203	3,541
67	1,506	14,388	120,482	7	195	3,338
68	1,362	12,882	106,095	7	188	3,143
69	1,231	11,520	93,213	6	181	2,955
70	1,113	10,289	81,693	6	175	2,774
71	1,006	9,176	71,404	6	169	2,599
72	909	8,170	62,229	6	163	2,430
73	821	7,261	54,059	5	158	2,267
74	741	6,441	46,798	5	152	2,109
75	668	5,700	40,357	5	147	1,957
76	602	5,032	34,658	5	142	1,810

x	D_x	N_x	S_x	C_x	M_x	R_x
77	542	4,429	29,626	5	137	1,668
78	488	3,887	25,196	5	132	1,531
79	439	3,399	21,309	5	127	1,399
80	394	2,960	17,910	5	122	1,272
81	353	2,566	14,950	5	117	1,150
82	316	2,213	12,384	5	111	1,033
83	281	1,898	10,171	6	106	922
84	250	1,616	8,273	6	101	816
85	222	1,366	6,656	6	95	715
86	196	1,144	5,290	6	89	620
87	172	948	4,146	6	83	532
88	150	777	3,198	7	76	449
89	129	627	2,421	7	69	373
90	111	498	1,794	7	62	303
91	93	387	1,296	7	55	241
92	77	294	909	8	48	186
93	63	217	615	8	40	138
94	49	154	399	7	33	98
95	38	104	245	7	25	65
96	27	67	141	6	18	40
97	18	40	74	5	12	22
98	12	21	34	4	7	10
99	6	10	13	3	3	3
100	3	3	3	0	0	0

xi. Table of Monetary Functions $i = 11\%$

x	D_x	N_x	S_x	C_x	M_x	R_x
20	124,034	1,239,841	12,295,946	23	1,166	21,232
21	111,719	1,115,807	11,056,105	67	1,142	20,066
22	100,580	1,004,089	9,940,297	125	1,075	18,924
23	90,487	903,509	8,936,209	143	949	17,849
24	81,377	813,021	8,032,700	106	806	16,900
25	73,207	731,644	7,219,679	56	700	16,094
26	65,897	658,437	6,488,035	25	645	15,393
27	59,341	592,541	5,829,598	14	620	14,748
28	53,447	533,199	5,237,057	11	606	14,128
29	48,139	479,753	4,703,858	11	595	13,522
30	43,357	431,614	4,224,105	12	583	12,928
31	39,048	388,257	3,792,491	13	571	12,344
32	35,166	349,208	3,404,235	13	559	11,773
33	31,668	314,042	3,055,026	14	545	11,214
34	28,516	282,375	2,740,984	15	531	10,669
35	25,675	253,859	2,458,609	15	517	10,138
36	23,115	228,184	2,204,750	16	502	9,621
37	20,809	205,068	1,976,567	17	486	9,119
38	18,730	184,259	1,771,498	17	469	8,634
39	16,857	165,529	1,587,239	18	452	8,165
40	15,169	148,672	1,421,710	18	434	7,713
41	13,648	133,504	1,273,037	18	416	7,278
42	12,277	119,856	1,139,534	19	398	6,862
43	11,042	107,579	1,019,678	19	379	6,464
44	9,929	96,538	912,099	19	361	6,084
45	8,926	86,609	815,561	19	342	5,724
46	8,023	77,683	728,952	18	324	5,381
47	7,210	69,660	651,269	18	305	5,058

x	D_x	N_x	S_x	C_x	M_x	R_x
48	6,477	62,450	581,609	17	287	4,753
49	5,818	55,973	519,159	17	270	4,465
50	5,225	50,155	463,187	16	253	4,195
51	4,691	44,930	413,032	15	238	3,941
52	4,211	40,238	368,102	14	222	3,704
53	3,779	36,027	327,864	13	208	3,482
54	3,391	32,248	291,837	13	195	3,274
55	3,043	28,857	259,589	12	182	3,079
56	2,730	25,814	230,732	11	170	2,897
57	2,448	23,084	204,918	10	159	2,727
58	2,196	20,636	181,834	9	150	2,567
59	1,969	18,440	161,198	8	140	2,418
60	1,765	16,471	142,758	8	132	2,277
61	1,583	14,706	126,287	7	124	2,145
62	1,419	13,123	111,581	6	118	2,021
63	1,272	11,704	98,458	6	111	1,903
64	1,140	10,432	86,754	5	106	1,792
65	1,022	9,291	76,323	5	100	1,686
66	916	8,269	67,031	4	96	1,586
67	821	7,353	58,763	4	91	1,490
68	736	6,531	51,410	4	88	1,399
69	659	5,795	44,879	3	84	1,311
70	591	5,136	39,083	3	81	1,227
71	529	4,545	33,948	3	77	1,147
72	474	4,016	29,402	3	74	1,069
73	424	3,543	25,386	3	72	995
74	379	3,119	21,844	3	69	923
75	339	2,740	18,725	3	66	854
76	303	2,401	15,985	3	64	788

x	D_x	N_x	S_x	C_x	M_x	R_x
77	270	2,098	13,585	2	61	724
78	241	1,828	11,487	2	59	663
79	215	1,587	9,659	2	56	604
80	191	1,372	8,073	2	54	548
81	170	1,181	6,700	2	51	494
82	150	1,012	5,519	3	49	443
83	133	861	4,508	3	46	394
84	117	729	3,646	3	44	348
85	103	611	2,918	3	41	304
86	90	509	2,306	3	38	263
87	78	419	1,798	3	36	225
88	67	341	1,379	3	33	189
89	58	273	1,038	3	30	156
90	49	215	765	3	26	127
91	41	166	550	3	23	100
92	34	125	384	3	20	77
93	27	92	258	3	17	57
94	21	65	166	3	14	40
95	16	44	102	3	10	27
96	11	28	58	3	8	16
97	8	16	30	2	5	9
98	5	9	14	2	3	4
99	3	4	5	1	1	1
100	1	1	1	0	0	0

xii. Table of Monetary Functions $i = 12\%$

x	D_x	N_x	S_x	C_x	M_x	R_x
20	103,667	959,734	8,835,508	19	838	13,035
21	92,540	856,067	7,875,774	55	818	12,197
22	82,570	763,527	7,019,707	102	763	11,379
23	73,621	680,957	6,256,180	115	661	10,616
24	65,618	607,336	5,575,222	85	545	9,956
25	58,503	541,719	4,967,886	44	461	9,410
26	52,191	483,216	4,426,167	20	417	8,949
27	46,579	431,026	3,942,951	11	397	8,532
28	41,578	384,446	3,511,926	9	387	8,135
29	37,114	342,869	3,127,479	9	378	7,748
30	33,129	305,755	2,784,610	9	369	7,371
31	29,570	272,626	2,478,856	9	360	7,002
32	26,393	243,055	2,206,230	10	351	6,642
33	23,555	216,663	1,963,175	10	341	6,291
34	21,021	193,108	1,746,512	11	330	5,951
35	18,758	172,087	1,553,404	11	320	5,620
36	16,737	153,329	1,381,317	11	309	5,301
37	14,932	136,592	1,227,989	12	297	4,992
38	13,321	121,659	1,091,397	12	285	4,695
39	11,882	108,339	969,738	12	273	4,409
40	10,596	96,457	861,399	12	261	4,136
41	9,448	85,861	764,942	13	249	3,875
42	8,423	76,412	679,081	13	236	3,626
43	7,508	67,989	602,669	13	223	3,390
44	6,691	60,481	534,680	12	211	3,167
45	5,962	53,789	474,199	12	198	2,956
46	5,311	47,827	420,410	12	186	2,758
47	4,730	42,516	372,583	12	174	2,572

x	D_x	N_x	S_x	C_x	M_x	R_x
48	4,212	37,787	330,066	11	162	2,398
49	3,749	33,575	292,280	11	151	2,235
50	3,337	29,826	258,705	10	141	2,084
51	2,969	26,489	228,879	10	131	1,943
52	2,642	23,520	202,390	9	121	1,813
53	2,350	20,879	178,870	8	112	1,692
54	2,090	18,529	157,991	8	104	1,580
55	1,858	16,439	139,462	7	96	1,476
56	1,652	14,581	123,023	6	89	1,380
57	1,468	12,930	108,441	6	83	1,291
58	1,305	11,461	95,512	5	77	1,208
59	1,160	10,156	84,050	5	71	1,131
60	1,031	8,996	73,894	4	66	1,060
61	916	7,965	64,898	4	62	994
62	814	7,049	56,933	4	58	931
63	723	6,236	49,883	3	54	873
64	642	5,513	43,648	3	51	819
65	571	4,870	38,135	3	48	768
66	507	4,300	33,265	2	46	719
67	450	3,793	28,965	2	43	673
68	400	3,342	25,173	2	41	630
69	355	2,942	21,831	2	39	589
70	315	2,587	18,888	2	38	549
71	280	2,272	16,301	2	36	511
72	248	1,992	14,029	1	34	475
73	220	1,744	12,037	1	33	441
74	195	1,523	10,293	1	32	408
75	173	1,328	8,770	1	30	377
76	153	1,155	7,442	1	29	346

x	D_x	N_x	S_x	C_x	M_x	R_x
77	135	1,002	6,286	1	28	318
78	120	867	5,284	1	26	290
79	106	747	4,418	1	25	263
80	93	641	3,671	1	24	238
81	82	548	3,029	1	23	214
82	72	466	2,481	1	22	192
83	63	394	2,015	1	20	170
84	55	331	1,621	1	19	150
85	48	276	1,290	1	18	130
86	42	228	1,014	1	17	112
87	36	186	786	1	15	96
88	31	151	600	1	14	80
89	26	120	449	1	13	66
90	22	94	329	1	11	54
91	18	72	235	1	10	42
92	15	54	163	1	8	32
93	12	39	109	1	7	24
94	9	27	70	1	6	17
95	7	18	43	1	4	11
96	5	12	24	1	3	7
97	3	7	13	1	2	4
98	2	4	6	1	1	2
99	1	2	2	0	0	0
100	1	1	1	0	0	0

xiii. Table of Monetary Functions $i = 13\%$

x	D_x	N_x	S_x	C_x	M_x	R_x
20	86,782	748,977	6,438,089	16	617	8,297
21	76,782	662,195	5,689,112	46	600	7,680
22	67,903	585,413	5,026,917	83	555	7,080
23	60,008	517,509	4,441,504	93	472	6,525
24	53,012	457,501	3,923,995	68	379	6,053
25	46,845	404,489	3,466,494	35	311	5,675
26	41,421	357,644	3,062,005	15	276	5,364
27	36,640	316,223	2,704,361	8	261	5,088
28	32,417	279,583	2,388,138	7	252	4,827
29	28,681	247,166	2,108,556	7	245	4,575
30	25,374	218,485	1,861,390	7	239	4,330
31	22,448	193,111	1,642,905	7	232	4,091
32	19,859	170,663	1,449,794	7	225	3,859
33	17,567	150,804	1,279,131	8	217	3,635
34	15,538	133,237	1,128,327	8	210	3,417
35	13,743	117,699	995,090	8	202	3,208
36	12,154	103,957	877,390	8	194	3,006
37	10,747	91,803	773,433	8	186	2,812
38	9,502	81,056	681,630	9	177	2,626
39	8,401	71,553	600,574	9	169	2,449
40	7,426	63,153	529,021	9	160	2,280
41	6,563	55,727	465,868	9	151	2,120
42	5,799	49,164	410,141	9	143	1,969
43	5,123	43,365	360,977	9	134	1,826
44	4,525	38,242	317,611	8	126	1,692
45	3,996	33,717	279,369	8	117	1,566
46	3,528	29,720	245,652	8	109	1,449
47	3,115	26,192	215,932	8	101	1,340

x	D_x	N_x	S_x	C_x	M_x	R_x
48	2,749	23,077	189,740	7	94	1,239
49	2,425	20,329	166,662	7	86	1,145
50	2,139	17,903	146,334	6	80	1,059
51	1,887	15,764	128,431	6	73	979
52	1,664	13,877	112,667	6	67	906
53	1,467	12,213	98,790	5	62	839
54	1,293	10,746	86,577	5	56	777
55	1,140	9,453	75,831	4	52	721
56	1,004	8,314	66,378	4	47	669
57	885	7,310	58,064	4	44	621
58	779	6,425	50,754	3	40	578
59	687	5,646	44,329	3	37	538
60	605	4,959	38,684	3	34	501
61	533	4,354	33,725	2	31	467
62	469	3,822	29,371	2	29	435
63	413	3,353	25,549	2	27	406
64	364	2,940	22,196	2	25	379
65	320	2,576	19,257	1	24	354
66	282	2,256	16,681	1	22	330
67	248	1,974	14,425	1	21	308
68	219	1,726	12,451	1	20	287
69	192	1,507	10,725	1	19	267
70	169	1,315	9,218	1	18	248
71	149	1,145	7,904	1	17	231
72	131	997	6,758	1	16	214
73	115	866	5,762	1	15	198
74	101	751	4,896	1	15	182
75	89	649	4,145	1	14	168
76	78	561	3,496	1	13	154

x	D_x	N_x	S_x	C_x	M_x	R_x
77	68	483	2,935	1	13	141
78	60	414	2,452	1	12	128
79	52	355	2,038	1	11	116
80	46	302	1,684	1	11	105
81	40	256	1,381	1	10	94
82	35	217	1,125	1	10	84
83	30	182	908	1	9	74
84	26	152	727	1	8	65
85	23	126	575	1	8	56
86	19	103	449	1	7	48
87	17	84	346	1	7	41
88	14	67	263	1	6	34
89	12	53	196	1	6	28
90	10	41	143	1	5	23
91	8	31	101	1	4	18
92	7	23	70	1	4	14
93	5	17	47	1	3	10
94	4	12	30	1	2	7
95	3	8	18	1	2	5
96	2	5	10	0	1	3
97	1	3	5	0	1	1
98	1	1	2	0	0	1
99	0	1	1	0	0	0
100	0	0	0	0	0	0

xiv. Table of Monetary Functions $i = 14\%$

x	D_x	N_x	S_x	C_x	M_x	R_x
20	72,762	588,720	4,749,411	13	463	5,453
21	63,813	515,958	4,160,691	38	449	4,990
22	55,939	452,146	3,644,732	68	412	4,541
23	49,001	396,207	3,192,587	75	344	4,129
24	42,908	347,206	2,796,379	54	268	3,785
25	37,584	304,298	2,449,173	28	214	3,517
26	32,941	266,714	2,144,875	12	186	3,303
27	28,883	233,773	1,878,161	7	174	3,116
28	25,330	204,890	1,644,387	5	168	2,942
29	22,214	179,560	1,439,497	5	162	2,774
30	19,481	157,347	1,259,937	5	157	2,612
31	17,083	137,866	1,102,590	5	152	2,455
32	14,980	120,783	964,724	6	147	2,303
33	13,135	105,803	843,941	6	141	2,156
34	11,516	92,669	738,138	6	135	2,015
35	10,096	81,153	645,469	6	130	1,880
36	8,850	71,057	564,316	6	124	1,750
37	7,757	62,207	493,259	6	118	1,626
38	6,799	54,449	431,053	6	112	1,508
39	5,958	47,650	376,604	6	106	1,396
40	5,220	41,693	328,953	6	100	1,290
41	4,573	36,473	287,261	6	94	1,190
42	4,005	31,900	250,788	6	88	1,096
43	3,508	27,894	218,889	6	82	1,009
44	3,071	24,387	190,995	6	76	927
45	2,688	21,315	166,608	5	71	851
46	2,353	18,627	145,292	5	65	780
47	2,059	16,274	126,665	5	60	715

x	D_x	N_x	S_x	C_x	M_x	R_x
48	1,801	14,216	110,391	5	55	655
49	1,575	12,415	96,175	4	50	600
50	1,377	10,840	83,760	4	46	550
51	1,204	9,463	72,920	4	42	504
52	1,052	8,259	63,457	3	38	462
53	920	7,207	55,198	3	34	424
54	803	6,287	47,991	3	31	390
55	702	5,484	41,704	3	28	358
56	613	4,782	36,221	2	26	330
57	535	4,169	31,439	2	23	304
58	468	3,633	27,270	2	21	281
59	408	3,166	23,637	2	19	260
60	356	2,757	20,471	1	18	240
61	311	2,401	17,714	1	16	223
62	272	2,090	15,313	1	15	206
63	237	1,818	13,223	1	14	192
64	207	1,581	11,404	1	13	178
65	181	1,374	9,823	1	12	165
66	158	1,194	8,449	1	11	153
67	138	1,036	7,255	1	10	142
68	120	899	6,219	1	10	132
69	105	778	5,321	1	9	123
70	91	674	4,542	0	9	114
71	80	582	3,868	0	8	105
72	69	503	3,286	0	8	97
73	60	433	2,783	0	7	89
74	53	373	2,350	0	7	82
75	46	320	1,977	0	6	75
76	40	274	1,657	0	6	69

x	D_x	N_x	S_x	C_x	M_x	R_x
77	35	234	1,382	0	6	63
78	30	200	1,148	0	5	57
79	26	170	948	0	5	51
80	23	144	779	0	5	46
81	20	121	635	0	5	41
82	17	101	514	0	4	37
83	15	85	413	0	4	32
84	12	70	328	0	4	28
85	11	58	258	0	4	25
86	9	47	201	0	3	21
87	8	38	154	0	3	18
88	6	30	116	0	3	15
89	5	24	86	0	2	12
90	4	18	62	0	2	10
91	4	14	44	0	2	8
92	3	10	30	0	2	6
93	2	7	20	0	1	4
94	2	5	13	0	1	3
95	1	3	8	0	1	2
96	1	2	4	0	1	1
97	1	1	2	0	0	1
98	0	1	1	0	0	0
99	0	0	0	0	0	0
100	0	0	0	0	0	0

xv. Table of Monetary Functions $i = 15\%$

x	D_x	N_x	S_x	C_x	M_x	R_x
20	61,100	465,732	3,542,330	11	353	3,686
21	53,120	404,631	3,076,599	31	341	3,333
22	46,160	351,512	2,671,967	56	311	2,992
23	40,084	305,352	2,320,456	61	255	2,681
24	34,794	265,268	2,015,104	44	194	2,426
25	30,212	230,474	1,749,835	22	150	2,232
26	26,249	200,262	1,519,361	10	128	2,082
27	22,816	174,013	1,319,099	5	118	1,954
28	19,835	151,197	1,145,086	4	113	1,836
29	17,243	131,362	993,889	4	109	1,722
30	14,990	114,119	862,527	4	105	1,613
31	13,031	99,129	748,408	4	101	1,508
32	11,327	86,097	649,279	4	97	1,407
33	9,846	74,770	563,182	4	93	1,309
34	8,557	64,924	488,411	4	89	1,216
35	7,437	56,367	423,487	4	85	1,127
36	6,463	48,930	367,120	4	80	1,043
37	5,615	42,468	318,190	4	76	962
38	4,879	36,852	275,722	4	72	886
39	4,238	31,974	238,870	4	67	815
40	3,681	27,736	206,897	4	63	747
41	3,197	24,055	179,161	4	59	684
42	2,775	20,858	155,106	4	55	625
43	2,409	18,083	134,248	4	51	570
44	2,091	15,673	116,166	4	47	519
45	1,815	13,582	100,493	4	43	472
46	1,574	11,767	86,911	3	39	429
47	1,366	10,193	75,143	3	36	390

x	D_x	N_x	S_x	C_x	M_x	R_x
48	1,184	8,827	64,950	3	33	354
49	1,027	7,643	56,123	3	30	321
50	890	6,617	48,480	3	27	292
51	771	5,727	41,863	2	24	265
52	668	4,956	36,136	2	22	241
53	579	4,287	31,181	2	20	219
54	501	3,709	26,893	2	18	199
55	434	3,207	23,185	2	16	182
56	376	2,773	19,978	1	14	166
57	325	2,397	17,205	1	13	152
58	282	2,072	14,807	1	11	139
59	244	1,790	12,736	1	10	127
60	211	1,546	10,946	1	9	117
61	183	1,335	9,400	1	8	108
62	158	1,152	8,065	1	8	99
63	137	994	6,912	1	7	92
64	118	858	5,918	1	6	85
65	102	739	5,060	0	6	78
66	89	637	4,321	0	5	72
67	77	548	3,684	0	5	67
68	66	472	3,136	0	5	62
69	57	405	2,664	0	4	57
70	50	348	2,259	0	4	52
71	43	299	1,911	0	4	48
72	37	256	1,612	0	4	44
73	32	219	1,356	0	3	41
74	28	187	1,138	0	3	37
75	24	159	951	0	3	34
76	21	135	792	0	3	31

x	D_x	N_x	S_x	C_x	M_x	R_x
77	18	115	657	0	3	28
78	15	97	542	0	3	26
79	13	82	445	0	2	23
80	11	69	363	0	2	21
81	10	57	294	0	2	18
82	8	48	237	0	2	16
83	7	40	189	0	2	14
84	6	33	150	0	2	13
85	5	27	117	0	2	11
86	4	21	90	0	1	9
87	4	17	69	0	1	8
88	3	14	52	0	1	6
89	2	11	38	0	1	5
90	2	8	27	0	1	4
91	2	6	19	0	1	3
92	1	5	13	0	1	2
93	1	3	9	0	1	2
94	1	2	5	0	0	1
95	1	1	3	0	0	1
96	0	1	2	0	0	0
97	0	1	1	0	0	0
98	0	0	0	0	0	0
99	0	0	0	0	0	0
100	0	0	0	0	0	0

c. Assurance Functions

i. Table of Assurance Functions $i = 1\%$

x	$\ddot{a}_x$	A_x	P_x		x	$\ddot{a}_x$	A_x	P_x
20	48.812	0.49742	0.01019		**61**	25.621	0.71482	0.02790
21	48.300	0.50229	0.01040		**62**	24.989	0.72061	0.02884
22	47.805	0.50698	0.01061		**63**	24.349	0.72647	0.02984
23	47.339	0.51138	0.01080		**64**	23.700	0.73240	0.03090
24	46.884	0.51564	0.01100		**65**	23.042	0.73841	0.03205
25	46.410	0.52010	0.01121		**66**	22.376	0.74451	0.03327
26	45.903	0.52490	0.01144		**67**	21.701	0.75067	0.03459
27	45.371	0.52996	0.01168		**68**	21.019	0.75689	0.03601
28	44.826	0.53513	0.01194		**69**	20.330	0.76318	0.03754
29	44.275	0.54038	0.01220		**70**	19.634	0.76950	0.03919
30	43.719	0.54566	0.01248		**71**	18.933	0.77587	0.04098
31	43.160	0.55098	0.01277		**72**	18.226	0.78227	0.04292
32	42.597	0.55633	0.01306		**73**	17.515	0.78868	0.04503
33	42.030	0.56171	0.01336		**74**	16.800	0.79510	0.04733
34	41.461	0.56712	0.01368		**75**	16.082	0.80152	0.04984
35	40.889	0.57254	0.01400		**76**	15.362	0.80793	0.05259
36	40.314	0.57799	0.01434		**77**	14.640	0.81430	0.05562
37	39.738	0.58345	0.01468		**78**	13.918	0.82061	0.05896
38	39.160	0.58892	0.01504		**79**	13.197	0.82686	0.06266
39	38.580	0.59440	0.01541		**80**	12.477	0.83301	0.06676
40	38.000	0.59988	0.01579		**81**	11.761	0.83903	0.07134
41	37.420	0.60536	0.01618		**82**	11.049	0.84489	0.07647
42	36.839	0.61083	0.01658		**83**	10.343	0.85054	0.08223
43	36.258	0.61630	0.01700		**84**	9.645	0.85592	0.08874
44	35.678	0.62175	0.01743		**85**	8.957	0.86098	0.09612
45	35.098	0.62719	0.01787		**86**	8.281	0.86563	0.10453
46	34.518	0.63262	0.01833		**87**	7.619	0.86975	0.11415

x	$\ddot{a}_x$	A_x	P_x		x	$\ddot{a}_x$	A_x	P_x
47	33.939	0.63803	0.01880		**88**	6.974	0.87320	0.12520
48	33.360	0.64343	0.01929		**89**	6.348	0.87578	0.13795
49	32.781	0.64882	0.01979		**90**	5.744	0.87721	0.15270
50	32.201	0.65421	0.02032		**91**	5.165	0.87710	0.16981
51	31.621	0.65960	0.02086		**92**	4.613	0.87484	0.18963
52	31.038	0.66499	0.02142		**93**	4.091	0.86950	0.21253
53	30.454	0.67039	0.02201		**94**	3.601	0.85953	0.23872
54	29.866	0.67581	0.02263		**95**	3.143	0.84223	0.26801
55	29.275	0.68126	0.02327		**96**	2.716	0.81255	0.29917
56	28.680	0.68674	0.02394		**97**	2.317	0.76031	0.32820
57	28.081	0.69225	0.02465		**98**	1.931	0.66290	0.34322
58	27.475	0.69781	0.02540		**99**	1.526	0.46386	0.30393
59	26.864	0.70342	0.02618		**100**	1.000	0.00000	0.00000
60	26.246	0.70909	0.02702					

ii. Table of Assurance Functions $i = 2\%$

x	$\ddot{a}_x$	A_x	P_x		x	$\ddot{a}_x$	A_x	P_x
20	36.928	0.26723	0.00724		**61**	22.280	0.54189	0.02432
21	36.654	0.27242	0.00743		**62**	21.811	0.55055	0.02524
22	36.392	0.27739	0.00762		**63**	21.333	0.55939	0.02622
23	36.150	0.28194	0.00780		**64**	20.843	0.56843	0.02727
24	35.916	0.28633	0.00797		**65**	20.342	0.57768	0.02840
25	35.666	0.29103	0.00816		**66**	19.829	0.58715	0.02961
26	35.389	0.29626	0.00837		**67**	19.305	0.59682	0.03092
27	35.091	0.30189	0.00860		**68**	18.770	0.60668	0.03232
28	34.782	0.30775	0.00885		**69**	18.224	0.61673	0.03384
29	34.466	0.31374	0.00910		**70**	17.669	0.62696	0.03548
30	34.144	0.31984	0.00937		**71**	17.103	0.63735	0.03726
31	33.817	0.32603	0.00964		**72**	16.529	0.64789	0.03920
32	33.486	0.33231	0.00992		**73**	15.946	0.65857	0.04130
33	33.149	0.33868	0.01022		**74**	15.354	0.66938	0.04360
34	32.808	0.34513	0.01052		**75**	14.755	0.68031	0.04611
35	32.463	0.35166	0.01083		**76**	14.149	0.69132	0.04886
36	32.114	0.35827	0.01116		**77**	13.537	0.70241	0.05189
37	31.760	0.36495	0.01149		**78**	12.919	0.71354	0.05523
38	31.403	0.37170	0.01184		**79**	12.296	0.72470	0.05894
39	31.043	0.37850	0.01219		**80**	11.671	0.73584	0.06305
40	30.679	0.38536	0.01256		**81**	11.042	0.74692	0.06764
41	30.313	0.39227	0.01294		**82**	10.413	0.75790	0.07278
42	29.943	0.39922	0.01333		**83**	9.785	0.76873	0.07856
43	29.572	0.40620	0.01374		**84**	9.159	0.77933	0.08509
44	29.198	0.41322	0.01415		**85**	8.537	0.78962	0.09250
45	28.822	0.42028	0.01458		**86**	7.921	0.79950	0.10093
46	28.444	0.42737	0.01502		**87**	7.314	0.80883	0.11058
47	28.064	0.43449	0.01548		**88**	6.719	0.81745	0.12167

x	$\ddot{a}_x$	A_x	P_x		x	$\ddot{a}_x$	A_x	P_x
48	27.681	0.44164	0.01595		**89**	6.137	0.82514	0.13445
49	27.296	0.44884	0.01644		**90**	5.572	0.83160	0.14924
50	26.908	0.45609	0.01695		**91**	5.027	0.83641	0.16638
51	26.516	0.46339	0.01748		**92**	4.504	0.83894	0.18625
52	26.120	0.47075	0.01802		**93**	4.007	0.83826	0.20920
53	25.719	0.47820	0.01859		**94**	3.537	0.83281	0.23544
54	25.314	0.48573	0.01919		**95**	3.096	0.81990	0.26480
55	24.903	0.49336	0.01981		**96**	2.684	0.79454	0.29606
56	24.485	0.50110	0.02047		**97**	2.295	0.74662	0.32526
57	24.060	0.50896	0.02115		**98**	1.919	0.65366	0.34059
58	23.628	0.51696	0.02188		**99**	1.521	0.45932	0.30197
59	23.188	0.52511	0.02265		**100**	1.000	0.00000	0.00000
60	22.738	0.53342	0.02346					

iii. Table of Assurance Functions $i = 3\%$

x	$\ddot{a}_x$	A_x	P_x		x	$\ddot{a}_x$	A_x	P_x
20	29.070	0.14935	0.00514		**61**	19.575	0.41548	0.02123
21	28.918	0.15365	0.00531		**62**	19.225	0.42515	0.02211
22	28.775	0.15770	0.00548		**63**	18.865	0.43513	0.02307
23	28.648	0.16127	0.00563		**64**	18.493	0.44542	0.02409
24	28.528	0.16464	0.00577		**65**	18.109	0.45606	0.02518
25	28.395	0.16838	0.00593		**66**	17.711	0.46704	0.02637
26	28.240	0.17273	0.00612		**67**	17.302	0.47837	0.02765
27	28.069	0.17757	0.00633		**68**	16.880	0.49004	0.02903
28	27.888	0.18269	0.00655		**69**	16.445	0.50203	0.03053
29	27.702	0.18797	0.00679		**70**	15.999	0.51435	0.03215
30	27.510	0.19340	0.00703		**71**	15.541	0.52697	0.03391
31	27.314	0.19896	0.00728		**72**	15.072	0.53990	0.03582
32	27.113	0.20464	0.00755		**73**	14.591	0.55312	0.03791
33	26.907	0.21045	0.00782		**74**	14.100	0.56662	0.04019
34	26.698	0.21638	0.00810		**75**	13.598	0.58038	0.04268
35	26.484	0.22243	0.00840		**76**	13.085	0.59439	0.04542
36	26.266	0.22859	0.00870		**77**	12.564	0.60862	0.04844
37	26.044	0.23486	0.00902		**78**	12.033	0.62304	0.05178
38	25.818	0.24124	0.00934		**79**	11.494	0.63763	0.05547
39	25.588	0.24772	0.00968		**80**	10.948	0.65234	0.05959
40	25.355	0.25428	0.01003		**81**	10.396	0.66714	0.06418
41	25.119	0.26094	0.01039		**82**	9.838	0.68196	0.06932
42	24.880	0.26767	0.01076		**83**	9.277	0.69674	0.07510
43	24.637	0.27448	0.01114		**84**	8.714	0.71139	0.08164
44	24.392	0.28137	0.01154		**85**	8.150	0.72583	0.08905
45	24.144	0.28833	0.01194		**86**	7.589	0.73993	0.09750
46	23.894	0.29535	0.01236		**87**	7.031	0.75355	0.10717
47	23.640	0.30245	0.01279		**88**	6.481	0.76649	0.11828

x	$\ddot{a}_x$	A_x	P_x		x	$\ddot{a}_x$	A_x	P_x
48	23.384	0.30963	0.01324		**89**	5.939	0.77852	0.13108
49	23.124	0.31689	0.01370		**90**	5.410	0.78931	0.14590
50	22.860	0.32425	0.01418		**91**	4.896	0.79841	0.16307
51	22.593	0.33171	0.01468		**92**	4.401	0.80520	0.18297
52	22.321	0.33929	0.01520		**93**	3.927	0.80871	0.20595
53	22.044	0.34700	0.01574		**94**	3.476	0.80737	0.23224
54	21.761	0.35486	0.01631		**95**	3.052	0.79852	0.26166
55	21.472	0.36288	0.01690		**96**	2.652	0.77718	0.29301
56	21.177	0.37109	0.01752		**97**	2.275	0.73334	0.32237
57	20.873	0.37949	0.01818		**98**	1.907	0.64464	0.33800
58	20.562	0.38812	0.01888		**99**	1.516	0.45486	0.30003
59	20.243	0.39698	0.01961		**100**	1.000	0.00000	0.00000
60	19.914	0.40609	0.02039					

iv. Table of Assurance Functions $i = 4\%$

x	$\ddot{a}_x$	A_x	P_x		x	$\ddot{a}_x$	A_x	P_x
20	23.679	0.08746	0.00369		**61**	17.364	0.32237	0.01856
21	23.591	0.09077	0.00385		**62**	17.102	0.33202	0.01941
22	23.511	0.09379	0.00399		**63**	16.829	0.34206	0.02033
23	23.444	0.09629	0.00411		**64**	16.544	0.35253	0.02131
24	23.382	0.09856	0.00422		**65**	16.248	0.36343	0.02237
25	23.311	0.10121	0.00434		**66**	15.938	0.37481	0.02352
26	23.223	0.10450	0.00450		**67**	15.616	0.38665	0.02476
27	23.122	0.10831	0.00468		**68**	15.281	0.39895	0.02611
28	23.013	0.11241	0.00488		**69**	14.933	0.41171	0.02757
29	22.899	0.11670	0.00510		**70**	14.573	0.42492	0.02916
30	22.781	0.12113	0.00532		**71**	14.200	0.43859	0.03089
31	22.659	0.12571	0.00555		**72**	13.815	0.45271	0.03277
32	22.533	0.13043	0.00579		**73**	13.417	0.46727	0.03483
33	22.404	0.13528	0.00604		**74**	13.006	0.48226	0.03708
34	22.271	0.14027	0.00630		**75**	12.584	0.49768	0.03955
35	22.135	0.14540	0.00657		**76**	12.149	0.51350	0.04227
36	21.994	0.15065	0.00685		**77**	11.703	0.52971	0.04526
37	21.851	0.15603	0.00714		**78**	11.245	0.54628	0.04858
38	21.704	0.16153	0.00744		**79**	10.777	0.56319	0.05226
39	21.554	0.16715	0.00775		**80**	10.299	0.58039	0.05635
40	21.401	0.17288	0.00808		**81**	9.812	0.59783	0.06093
41	21.245	0.17871	0.00841		**82**	9.316	0.61547	0.06606
42	21.086	0.18464	0.00876		**83**	8.814	0.63322	0.07184
43	20.925	0.19067	0.00911		**84**	8.306	0.65099	0.07837
44	20.761	0.19679	0.00948		**85**	7.795	0.66869	0.08579
45	20.594	0.20300	0.00986		**86**	7.281	0.68618	0.09424
46	20.425	0.20929	0.01025		**87**	6.768	0.70330	0.10391
47	20.253	0.21569	0.01065		**88**	6.258	0.71983	0.11502

x	$\ddot{a}_x$	A_x	P_x		x	$\ddot{a}_x$	A_x	P_x
48	20.079	0.22218	0.01107		**89**	5.753	0.73553	0.12784
49	19.901	0.22878	0.01150		**90**	5.257	0.75004	0.14267
50	19.720	0.23549	0.01194		**91**	4.772	0.76290	0.15986
51	19.535	0.24234	0.01241		**92**	4.302	0.77346	0.17978
52	19.346	0.24934	0.01289		**93**	3.850	0.78072	0.20279
53	19.152	0.25650	0.01339		**94**	3.418	0.78313	0.22911
54	18.953	0.26385	0.01392		**95**	3.009	0.77802	0.25858
55	18.748	0.27141	0.01448		**96**	2.622	0.76045	0.29001
56	18.537	0.27919	0.01506		**97**	2.255	0.72047	0.31952
57	18.319	0.28723	0.01568		**98**	1.896	0.63585	0.33544
58	18.093	0.29554	0.01633		**99**	1.511	0.45048	0.29812
59	17.859	0.30415	0.01703		**100**	1.000	0.00000	0.00000
60	17.617	0.31309	0.01777					

v. Table of Assurance Functions $i = 5\%$

x	$\ddot{a}_x$	A_x	P_x		x	$\ddot{a}_x$	A_x	P_x
20	19.848	0.05402	0.00272		**61**	15.542	0.25325	0.01630
21	19.795	0.05653	0.00286		**62**	15.343	0.26233	0.01710
22	19.748	0.05872	0.00297		**63**	15.135	0.27187	0.01796
23	19.712	0.06036	0.00306		**64**	14.916	0.28189	0.01890
24	19.682	0.06173	0.00314		**65**	14.685	0.29244	0.01991
25	19.645	0.06346	0.00323		**66**	14.443	0.30354	0.02102
26	19.594	0.06585	0.00336		**67**	14.188	0.31519	0.02222
27	19.532	0.06875	0.00352		**68**	13.920	0.32741	0.02352
28	19.463	0.07195	0.00370		**69**	13.641	0.34019	0.02494
29	19.391	0.07533	0.00388		**70**	13.348	0.35355	0.02649
30	19.316	0.07885	0.00408		**71**	13.043	0.36747	0.02817
31	19.237	0.08251	0.00429		**72**	12.725	0.38198	0.03002
32	19.156	0.08631	0.00451		**73**	12.393	0.39706	0.03204
33	19.072	0.09024	0.00473		**74**	12.049	0.41272	0.03425
34	18.985	0.09431	0.00497		**75**	11.692	0.42895	0.03669
35	18.895	0.09852	0.00521		**76**	11.321	0.44575	0.03937
36	18.802	0.10285	0.00547		**77**	10.938	0.46309	0.04234
37	18.706	0.10731	0.00574		**78**	10.542	0.48097	0.04562
38	18.608	0.11189	0.00601		**79**	10.134	0.49935	0.04927
39	18.507	0.11659	0.00630		**80**	9.714	0.51820	0.05334
40	18.404	0.12140	0.00660		**81**	9.283	0.53747	0.05790
41	18.298	0.12632	0.00690		**82**	8.842	0.55711	0.06301
42	18.190	0.13134	0.00722		**83**	8.391	0.57704	0.06877
43	18.080	0.13646	0.00755		**84**	7.932	0.59718	0.07529
44	17.968	0.14167	0.00788		**85**	7.467	0.61741	0.08269
45	17.853	0.14697	0.00823		**86**	6.996	0.63758	0.09113
46	17.737	0.15237	0.00859		**87**	6.524	0.65754	0.10079
47	17.618	0.15786	0.00896		**88**	6.050	0.67704	0.11191

x	$\ddot{a}_x$	A_x	P_x		x	$\ddot{a}_x$	A_x	P_x
48	17.497	0.16345	0.00934		**89**	5.579	0.69583	0.12473
49	17.373	0.16916	0.00974		**90**	5.113	0.71354	0.13956
50	17.247	0.17499	0.01015		**91**	4.655	0.72968	0.15675
51	17.117	0.18096	0.01057		**92**	4.208	0.74357	0.17668
52	16.984	0.18709	0.01102		**93**	3.777	0.75421	0.19971
53	16.847	0.19340	0.01148		**94**	3.362	0.76003	0.22605
54	16.706	0.19990	0.01197		**95**	2.967	0.75836	0.25556
55	16.559	0.20664	0.01248		**96**	2.593	0.74431	0.28706
56	16.407	0.21362	0.01302		**97**	2.235	0.70799	0.31671
57	16.249	0.22088	0.01359		**98**	1.884	0.62728	0.33292
58	16.084	0.22844	0.01420		**99**	1.506	0.44619	0.29624
59	15.911	0.23634	0.01485		**100**	1.000	0.00000	0.00000
60	15.731	0.24460	0.01555					

vi. Table of Assurance Functions $i = 6\%$

x	$\ddot{a}_x$	A_x	P_x		x	$\ddot{a}_x$	A_x	P_x
20	17.035	0.03536	0.00208		**61**	14.025	0.20154	0.01437
21	17.001	0.03728	0.00219		**62**	13.874	0.20980	0.01512
22	16.972	0.03887	0.00229		**63**	13.714	0.21854	0.01594
23	16.954	0.03987	0.00235		**64**	13.545	0.22781	0.01682
24	16.941	0.04058	0.00240		**65**	13.364	0.23766	0.01778
25	16.922	0.04163	0.00246		**66**	13.173	0.24812	0.01884
26	16.892	0.04333	0.00257		**67**	12.970	0.25919	0.01998
27	16.852	0.04552	0.00270		**68**	12.755	0.27091	0.02124
28	16.808	0.04801	0.00286		**69**	12.529	0.28326	0.02261
29	16.760	0.05067	0.00302		**70**	12.290	0.29628	0.02411
30	16.710	0.05346	0.00320		**71**	12.039	0.30996	0.02575
31	16.658	0.05637	0.00338		**72**	11.775	0.32433	0.02755
32	16.603	0.05942	0.00358		**73**	11.498	0.33939	0.02952
33	16.546	0.06259	0.00378		**74**	11.208	0.35515	0.03169
34	16.487	0.06589	0.00400		**75**	10.904	0.37161	0.03408
35	16.426	0.06931	0.00422		**76**	10.587	0.38878	0.03672
36	16.362	0.07286	0.00445		**77**	10.257	0.40664	0.03965
37	16.296	0.07653	0.00470		**78**	9.913	0.42519	0.04289
38	16.228	0.08031	0.00495		**79**	9.556	0.44442	0.04651
39	16.158	0.08420	0.00521		**80**	9.186	0.46428	0.05054
40	16.086	0.08819	0.00548		**81**	8.804	0.48474	0.05506
41	16.013	0.09229	0.00576		**82**	8.409	0.50575	0.06014
42	15.937	0.09648	0.00605		**83**	8.004	0.52724	0.06588
43	15.860	0.10075	0.00635		**84**	7.588	0.54912	0.07237
44	15.781	0.10512	0.00666		**85**	7.164	0.57128	0.07975
45	15.701	0.10957	0.00698		**86**	6.732	0.59356	0.08817
46	15.619	0.11410	0.00731		**87**	6.295	0.61580	0.09782
47	15.535	0.11872	0.00764		**88**	5.855	0.63775	0.10892

x	$\ddot{a}_x$	A_x	P_x		x	$\ddot{a}_x$	A_x	P_x
48	15.450	0.12344	0.00799		**89**	5.415	0.65913	0.12173
49	15.363	0.12826	0.00835		**90**	4.977	0.67957	0.13655
50	15.273	0.13320	0.00872		**91**	4.544	0.69855	0.15374
51	15.181	0.13826	0.00911		**92**	4.119	0.71539	0.17367
52	15.086	0.14348	0.00951		**93**	3.706	0.72906	0.19670
53	14.988	0.14887	0.00993		**94**	3.308	0.73799	0.22306
54	14.886	0.15446	0.01038		**95**	2.928	0.73951	0.25260
55	14.780	0.16028	0.01084		**96**	2.564	0.72874	0.28416
56	14.669	0.16634	0.01134		**97**	2.217	0.69588	0.31394
57	14.553	0.17269	0.01187		**98**	1.873	0.61891	0.33043
58	14.431	0.17935	0.01243		**99**	1.501	0.44198	0.29438
59	14.303	0.18635	0.01303		**100**	1.000	0.00000	0.00000
60	14.168	0.19374	0.01367					

vii. Table of Assurance Functions $i = 7\%$

x	$\ddot{a}_x$	A_x	P_x		x	$\ddot{a}_x$	A_x	P_x
20	14.908	0.02455	0.00165		**61**	12.753	0.16253	0.01274
21	14.884	0.02606	0.00175		**62**	12.638	0.16988	0.01344
22	14.866	0.02724	0.00183		**63**	12.514	0.17772	0.01420
23	14.857	0.02780	0.00187		**64**	12.381	0.18612	0.01503
24	14.854	0.02804	0.00189		**65**	12.239	0.19511	0.01594
25	14.845	0.02860	0.00193		**66**	12.087	0.20474	0.01694
26	14.826	0.02978	0.00201		**67**	11.925	0.21504	0.01803
27	14.800	0.03146	0.00213		**68**	11.751	0.22602	0.01923
28	14.770	0.03341	0.00226		**69**	11.567	0.23769	0.02055
29	14.738	0.03552	0.00241		**70**	11.371	0.25009	0.02199
30	14.703	0.03776	0.00257		**71**	11.163	0.26323	0.02358
31	14.667	0.04011	0.00273		**72**	10.943	0.27713	0.02533
32	14.629	0.04257	0.00291		**73**	10.710	0.29181	0.02725
33	14.589	0.04515	0.00309		**74**	10.464	0.30729	0.02936
34	14.547	0.04784	0.00329		**75**	10.206	0.32358	0.03171
35	14.504	0.05065	0.00349		**76**	9.934	0.34070	0.03430
36	14.459	0.05357	0.00371		**77**	9.648	0.35864	0.03717
37	14.412	0.05660	0.00393		**78**	9.348	0.37741	0.04037
38	14.363	0.05973	0.00416		**79**	9.035	0.39701	0.04394
39	14.313	0.06297	0.00440		**80**	8.708	0.41740	0.04793
40	14.262	0.06629	0.00465		**81**	8.367	0.43856	0.05241
41	14.209	0.06971	0.00491		**82**	8.014	0.46045	0.05746
42	14.154	0.07320	0.00517		**83**	7.648	0.48299	0.06315
43	14.099	0.07678	0.00545		**84**	7.271	0.50612	0.06961
44	14.042	0.08042	0.00573		**85**	6.883	0.52971	0.07696
45	13.984	0.08414	0.00602		**86**	6.486	0.55362	0.08535
46	13.925	0.08793	0.00631		**87**	6.082	0.57766	0.09497
47	13.865	0.09180	0.00662		**88**	5.673	0.60161	0.10605

x	$\ddot{a}_x$	A_x	P_x		x	$\ddot{a}_x$	A_x	P_x
48	13.803	0.09574	0.00694		**89**	5.260	0.62516	0.11884
49	13.740	0.09977	0.00726		**90**	4.848	0.64792	0.13365
50	13.676	0.10390	0.00760		**91**	4.438	0.66937	0.15083
51	13.609	0.10815	0.00795		**92**	4.034	0.68881	0.17075
52	13.541	0.11253	0.00831		**93**	3.639	0.70520	0.19377
53	13.469	0.11707	0.00869		**94**	3.257	0.71695	0.22014
54	13.395	0.12179	0.00909		**95**	2.889	0.72140	0.24970
55	13.318	0.12672	0.00952		**96**	2.537	0.71371	0.28132
56	13.236	0.13189	0.00996		**97**	2.198	0.68412	0.31122
57	13.151	0.13734	0.01044		**98**	1.862	0.61075	0.32797
58	13.060	0.14309	0.01096		**99**	1.497	0.43785	0.29254
59	12.964	0.14918	0.01151		**100**	1.000	0.00000	0.00000
60	12.862	0.15564	0.01210					

viii. Table of Assurance Functions $i = 8\%$

x	$\ddot{a}_x$	A_x	P_x		x	$\ddot{a}_x$	A_x	P_x
20	13.255	0.01803	0.00136		**61**	11.677	0.13285	0.01138
21	13.239	0.01927	0.00146		**62**	11.588	0.13930	0.01202
22	13.227	0.02016	0.00152		**63**	11.491	0.14624	0.01273
23	13.223	0.02041	0.00154		**64**	11.387	0.15373	0.01350
24	13.224	0.02033	0.00154		**65**	11.275	0.16182	0.01435
25	13.221	0.02054	0.00155		**66**	11.153	0.17058	0.01529
26	13.210	0.02136	0.00162		**67**	11.022	0.18001	0.01633
27	13.192	0.02266	0.00172		**68**	10.881	0.19014	0.01747
28	13.171	0.02422	0.00184		**69**	10.730	0.20101	0.01873
29	13.148	0.02592	0.00197		**70**	10.568	0.21264	0.02012
30	13.123	0.02774	0.00211		**71**	10.395	0.22505	0.02165
31	13.097	0.02966	0.00226		**72**	10.211	0.23829	0.02334
32	13.069	0.03169	0.00242		**73**	10.015	0.25237	0.02520
33	13.040	0.03382	0.00259		**74**	9.806	0.26733	0.02726
34	13.010	0.03605	0.00277		**75**	9.584	0.28319	0.02955
35	12.978	0.03839	0.00296		**76**	9.349	0.29996	0.03208
36	12.945	0.04083	0.00315		**77**	9.101	0.31768	0.03491
37	12.910	0.04336	0.00336		**78**	8.839	0.33634	0.03805
38	12.875	0.04599	0.00357		**79**	8.563	0.35596	0.04157
39	12.837	0.04870	0.00379		**80**	8.273	0.37652	0.04551
40	12.799	0.05150	0.00402		**81**	7.970	0.39800	0.04994
41	12.760	0.05437	0.00426		**82**	7.652	0.42038	0.05494
42	12.720	0.05732	0.00451		**83**	7.321	0.44359	0.06059
43	12.679	0.06033	0.00476		**84**	6.978	0.46755	0.06700
44	12.637	0.06339	0.00502		**85**	6.623	0.49217	0.07431
45	12.594	0.06652	0.00528		**86**	6.258	0.51730	0.08267
46	12.550	0.06970	0.00555		**87**	5.883	0.54276	0.09226
47	12.506	0.07293	0.00583		**88**	5.501	0.56832	0.10330

x	$\ddot{a}_x$	A_x	P_x		x	$\ddot{a}_x$	A_x	P_x
48	12.461	0.07623	0.00612		**89**	5.115	0.59366	0.11607
49	12.414	0.07960	0.00641		**90**	4.726	0.61839	0.13085
50	12.367	0.08305	0.00672		**91**	4.338	0.64198	0.14801
51	12.318	0.08659	0.00703		**92**	3.953	0.66371	0.16791
52	12.268	0.09025	0.00736		**93**	3.575	0.68254	0.19092
53	12.215	0.09404	0.00770		**94**	3.207	0.69685	0.21728
54	12.160	0.09800	0.00806		**95**	2.852	0.70401	0.24685
55	12.103	0.10215	0.00844		**96**	2.510	0.69919	0.27851
56	12.043	0.10651	0.00884		**97**	2.180	0.67270	0.30853
57	11.979	0.11113	0.00928		**98**	1.852	0.60278	0.32555
58	11.911	0.11603	0.00974		**99**	1.492	0.43380	0.29072
59	11.838	0.12126	0.01024		**100**	1.000	0.00000	0.00000
60	11.761	0.12685	0.01079					

ix. Table of Assurance Functions $i = 9\%$

x	$\ddot{a}_x$	A_x	P_x		x	$\ddot{a}_x$	A_x	P_x
20	11.942	0.01394	0.00117		**61**	10.760	0.11006	0.01023
21	11.929	0.01498	0.00126		**62**	10.690	0.11567	0.01082
22	11.921	0.01567	0.00131		**63**	10.615	0.12177	0.01147
23	11.920	0.01572	0.00132		**64**	10.532	0.12839	0.01219
24	11.924	0.01541	0.00129		**65**	10.443	0.13561	0.01299
25	11.924	0.01537	0.00129		**66**	10.345	0.14348	0.01387
26	11.917	0.01593	0.00134		**67**	10.239	0.15204	0.01485
27	11.905	0.01695	0.00142		**68**	10.123	0.16130	0.01593
28	11.889	0.01822	0.00153		**69**	9.999	0.17131	0.01713
29	11.872	0.01963	0.00165		**70**	9.864	0.18211	0.01846
30	11.854	0.02114	0.00178		**71**	9.720	0.19372	0.01993
31	11.834	0.02274	0.00192		**72**	9.565	0.20618	0.02156
32	11.814	0.02444	0.00207		**73**	9.398	0.21954	0.02336
33	11.792	0.02623	0.00222		**74**	9.220	0.23383	0.02536
34	11.769	0.02811	0.00239		**75**	9.029	0.24908	0.02759
35	11.745	0.03009	0.00256		**76**	8.826	0.26533	0.03006
36	11.720	0.03216	0.00274		**77**	8.609	0.28260	0.03283
37	11.693	0.03431	0.00293		**78**	8.379	0.30093	0.03591
38	11.666	0.03655	0.00313		**79**	8.136	0.32031	0.03937
39	11.638	0.03887	0.00334		**80**	7.878	0.34077	0.04326
40	11.609	0.04125	0.00355		**81**	7.606	0.36229	0.04763
41	11.579	0.04371	0.00377		**82**	7.320	0.38485	0.05257
42	11.548	0.04622	0.00400		**83**	7.020	0.40841	0.05817
43	11.517	0.04878	0.00424		**84**	6.707	0.43289	0.06454
44	11.485	0.05139	0.00447		**85**	6.382	0.45821	0.07180
45	11.452	0.05404	0.00472		**86**	6.044	0.48424	0.08011
46	11.419	0.05673	0.00497		**87**	5.697	0.51078	0.08966
47	11.386	0.05946	0.00522		**88**	5.340	0.53761	0.10067

x	$\ddot{a}_x$	A_x	P_x		x	$\ddot{a}_x$	A_x	P_x
48	11.352	0.06224	0.00548		**89**	4.978	0.56442	0.11339
49	11.317	0.06507	0.00575		**90**	4.611	0.59082	0.12815
50	11.281	0.06796	0.00602		**91**	4.242	0.61625	0.14527
51	11.245	0.07092	0.00631		**92**	3.875	0.64000	0.16515
52	11.207	0.07398	0.00660		**93**	3.513	0.66100	0.18813
53	11.168	0.07714	0.00691		**94**	3.160	0.67765	0.21448
54	11.127	0.08045	0.00723		**95**	2.816	0.68730	0.24406
55	11.084	0.08392	0.00757		**96**	2.485	0.68517	0.27576
56	11.039	0.08759	0.00793		**97**	2.163	0.66162	0.30588
57	10.991	0.09148	0.00832		**98**	1.841	0.59500	0.32315
58	10.939	0.09563	0.00874		**99**	1.488	0.42982	0.28893
59	10.884	0.10009	0.00920		**100**	1.000	0.00000	0.00000
60	10.824	0.10488	0.00969					

x. Table of Assurance Functions $i = 10\%$

x	$\ddot{a}_x$	A_x	P_x		x	$\ddot{a}_x$	A_x	P_x
20	10.876	0.01124	0.00103		**61**	9.972	0.09242	0.00927
21	10.866	0.01216	0.00112		**62**	9.917	0.09727	0.00981
22	10.860	0.01271	0.00117		**63**	9.858	0.10259	0.01041
23	10.861	0.01262	0.00116		**64**	9.792	0.10841	0.01107
24	10.866	0.01215	0.00112		**65**	9.720	0.11481	0.01181
25	10.868	0.01194	0.00110		**66**	9.641	0.12185	0.01264
26	10.864	0.01230	0.00113		**67**	9.554	0.12956	0.01356
27	10.855	0.01311	0.00121		**68**	9.459	0.13798	0.01459
28	10.844	0.01417	0.00131		**69**	9.356	0.14714	0.01573
29	10.831	0.01535	0.00142		**70**	9.244	0.15709	0.01699
30	10.817	0.01663	0.00154		**71**	9.122	0.16786	0.01840
31	10.801	0.01799	0.00167		**72**	8.991	0.17951	0.01997
32	10.785	0.01944	0.00180		**73**	8.849	0.19208	0.02171
33	10.769	0.02097	0.00195		**74**	8.696	0.20562	0.02365
34	10.751	0.02259	0.00210		**75**	8.531	0.22017	0.02581
35	10.732	0.02430	0.00226		**76**	8.355	0.23577	0.02822
36	10.712	0.02608	0.00243		**77**	8.165	0.25246	0.03092
37	10.692	0.02795	0.00261		**78**	7.963	0.27028	0.03394
38	10.670	0.02989	0.00280		**79**	7.747	0.28926	0.03734
39	10.648	0.03189	0.00300		**80**	7.517	0.30942	0.04116
40	10.625	0.03396	0.00320		**81**	7.273	0.33076	0.04548
41	10.601	0.03609	0.00340		**82**	7.015	0.35328	0.05036
42	10.577	0.03826	0.00362		**83**	6.742	0.37693	0.05591
43	10.553	0.04048	0.00384		**84**	6.456	0.40168	0.06222
44	10.528	0.04273	0.00406		**85**	6.157	0.42743	0.06942
45	10.503	0.04501	0.00429		**86**	5.845	0.45407	0.07768
46	10.477	0.04732	0.00452		**87**	5.522	0.48142	0.08718
47	10.451	0.04965	0.00475		**88**	5.189	0.50925	0.09814

x	$\ddot{a}_x$	A_x	P_x		x	$\ddot{a}_x$	A_x	P_x
48	10.425	0.05201	0.00499		**89**	4.848	0.53725	0.11082
49	10.398	0.05441	0.00523		**90**	4.501	0.56504	0.12553
50	10.371	0.05684	0.00548		**91**	4.151	0.59205	0.14262
51	10.343	0.05934	0.00574		**92**	3.801	0.61756	0.16246
52	10.314	0.06190	0.00600		**93**	3.454	0.64051	0.18542
53	10.285	0.06456	0.00628		**94**	3.114	0.65928	0.21174
54	10.254	0.06732	0.00657		**95**	2.782	0.67124	0.24132
55	10.221	0.07023	0.00687		**96**	2.460	0.67161	0.27305
56	10.187	0.07331	0.00720		**97**	2.146	0.65085	0.30327
57	10.150	0.07658	0.00754		**98**	1.831	0.58740	0.32079
58	10.111	0.08009	0.00792		**99**	1.483	0.42591	0.28716
59	10.068	0.08387	0.00833		**100**	1.000	0.00000	0.00000
60	10.022	0.08797	0.00878					

xi. Table of Assurance Functions $i = 11\%$

x	$\ddot{a}_x$	A_x	P_x		x	$\ddot{a}_x$	A_x	P_x
20	9.996	0.00940	0.00094		**61**	9.290	0.07862	0.00846
21	9.988	0.01022	0.00102		**62**	9.247	0.08281	0.00896
22	9.983	0.01068	0.00107		**63**	9.200	0.08743	0.00950
23	9.985	0.01049	0.00105		**64**	9.147	0.09254	0.01012
24	9.991	0.00991	0.00099		**65**	9.089	0.09819	0.01080
25	9.994	0.00957	0.00096		**66**	9.024	0.10447	0.01158
26	9.992	0.00979	0.00098		**67**	8.953	0.11139	0.01244
27	9.985	0.01045	0.00105		**68**	8.874	0.11900	0.01341
28	9.976	0.01134	0.00114		**69**	8.788	0.12735	0.01449
29	9.966	0.01235	0.00124		**70**	8.694	0.13647	0.01570
30	9.955	0.01345	0.00135		**71**	8.592	0.14642	0.01704
31	9.943	0.01463	0.00147		**72**	8.480	0.15726	0.01854
32	9.930	0.01589	0.00160		**73**	8.358	0.16902	0.02022
33	9.917	0.01722	0.00174		**74**	8.226	0.18177	0.02210
34	9.902	0.01864	0.00188		**75**	8.084	0.19556	0.02419
35	9.887	0.02013	0.00204		**76**	7.929	0.21044	0.02654
36	9.871	0.02170	0.00220		**77**	7.763	0.22647	0.02917
37	9.855	0.02334	0.00237		**78**	7.584	0.24369	0.03213
38	9.838	0.02504	0.00255		**79**	7.392	0.26214	0.03546
39	9.820	0.02681	0.00273		**80**	7.186	0.28185	0.03922
40	9.801	0.02864	0.00292		**81**	6.967	0.30285	0.04347
41	9.782	0.03051	0.00312		**82**	6.733	0.32514	0.04829
42	9.763	0.03242	0.00332		**83**	6.485	0.34871	0.05377
43	9.743	0.03436	0.00353		**84**	6.223	0.37352	0.06002
44	9.723	0.03634	0.00374		**85**	5.948	0.39948	0.06717
45	9.703	0.03833	0.00395		**86**	5.659	0.42651	0.07537
46	9.682	0.04033	0.00417		**87**	5.358	0.45442	0.08481
47	9.662	0.04235	0.00438		**88**	5.046	0.48301	0.09572

x	$\ddot{a}_x$	A_x	P_x		x	$\ddot{a}_x$	A_x	P_x
48	9.641	0.04438	0.00460		**89**	4.725	0.51197	0.10835
49	9.620	0.04644	0.00483		**90**	4.397	0.54091	0.12301
50	9.599	0.04852	0.00505		**91**	4.065	0.56927	0.14005
51	9.578	0.05063	0.00529		**92**	3.731	0.59633	0.15985
52	9.555	0.05280	0.00553		**93**	3.398	0.62101	0.18277
53	9.533	0.05504	0.00577		**94**	3.069	0.64170	0.20907
54	9.509	0.05736	0.00603		**95**	2.748	0.65578	0.23863
55	9.484	0.05980	0.00631		**96**	2.435	0.65851	0.27039
56	9.457	0.06239	0.00660		**97**	2.130	0.64038	0.30070
57	9.429	0.06514	0.00691		**98**	1.821	0.57998	0.31846
58	9.398	0.06811	0.00725		**99**	1.479	0.42207	0.28541
59	9.365	0.07131	0.00761		**100**	1.000	0.00000	0.00000
60	9.330	0.07480	0.00802					

xii. Table of Assurance Functions $i = 12\%$

x	$\ddot{a}_x$	A_x	P_x		x	$\ddot{a}_x$	A_x	P_x
20	9.258	0.00808	0.00087		**61**	8.696	0.06773	0.00779
21	9.251	0.00884	0.00096		**62**	8.662	0.07135	0.00824
22	9.247	0.00924	0.00100		**63**	8.624	0.07536	0.00874
23	9.249	0.00898	0.00097		**64**	8.582	0.07983	0.00930
24	9.256	0.00831	0.00090		**65**	8.534	0.08482	0.00994
25	9.260	0.00788	0.00085		**66**	8.481	0.09040	0.01066
26	9.259	0.00799	0.00086		**67**	8.422	0.09660	0.01147
27	9.254	0.00853	0.00092		**68**	8.357	0.10347	0.01238
28	9.246	0.00930	0.00101		**69**	8.285	0.11105	0.01340
29	9.238	0.01018	0.00110		**70**	8.205	0.11940	0.01455
30	9.229	0.01114	0.00121		**71**	8.118	0.12856	0.01584
31	9.220	0.01217	0.00132		**72**	8.022	0.13859	0.01728
32	9.209	0.01328	0.00144		**73**	7.918	0.14956	0.01889
33	9.198	0.01446	0.00157		**74**	7.804	0.16152	0.02070
34	9.186	0.01571	0.00171		**75**	7.679	0.17453	0.02273
35	9.174	0.01704	0.00186		**76**	7.544	0.18866	0.02501
36	9.161	0.01844	0.00201		**77**	7.398	0.20398	0.02757
37	9.147	0.01990	0.00218		**78**	7.239	0.22052	0.03046
38	9.133	0.02142	0.00235		**79**	7.068	0.23836	0.03373
39	9.118	0.02301	0.00252		**80**	6.883	0.25754	0.03741
40	9.103	0.02464	0.00271		**81**	6.685	0.27809	0.04160
41	9.087	0.02631	0.00290		**82**	6.473	0.30002	0.04635
42	9.071	0.02802	0.00309		**83**	6.247	0.32335	0.05176
43	9.055	0.02975	0.00329		**84**	6.007	0.34805	0.05794
44	9.039	0.03150	0.00349		**85**	5.752	0.37406	0.06503
45	9.022	0.03326	0.00369		**86**	5.484	0.40128	0.07317
46	9.006	0.03503	0.00389		**87**	5.204	0.42957	0.08255
47	8.989	0.03680	0.00409		**88**	4.911	0.45871	0.09340

x	$\ddot{a}_x$	A_x	P_x		x	$\ddot{a}_x$	A_x	P_x
48	8.972	0.03858	0.00430		**89**	4.609	0.48842	0.10597
49	8.955	0.04036	0.00451		**90**	4.299	0.51830	0.12058
50	8.939	0.04216	0.00472		**91**	3.982	0.54781	0.13756
51	8.921	0.04397	0.00493		**92**	3.663	0.57621	0.15731
52	8.904	0.04582	0.00515		**93**	3.343	0.60243	0.18019
53	8.886	0.04772	0.00537		**94**	3.027	0.62487	0.20645
54	8.867	0.04969	0.00560		**95**	2.716	0.64091	0.23600
55	8.848	0.05175	0.00585		**96**	2.412	0.64583	0.26777
56	8.827	0.05393	0.00611		**97**	2.114	0.63020	0.29817
57	8.805	0.05626	0.00639		**98**	1.812	0.57273	0.31616
58	8.782	0.05876	0.00669		**99**	1.475	0.41831	0.28368
59	8.756	0.06148	0.00702		**100**	1.000	0.00000	0.00000
60	8.728	0.06446	0.00739					

xiii. Table of Assurance Functions $i = 13\%$

x	$\ddot{a}_x$	A_x	P_x		x	$\ddot{a}_x$	A_x	P_x
20	8.631	0.00710	0.00082		**61**	8.176	0.05905	0.00722
21	8.624	0.00782	0.00091		**62**	8.148	0.06217	0.00763
22	8.621	0.00817	0.00095		**63**	8.118	0.06566	0.00809
23	8.624	0.00786	0.00091		**64**	8.083	0.06957	0.00861
24	8.630	0.00714	0.00083		**65**	8.044	0.07397	0.00920
25	8.635	0.00664	0.00077		**66**	8.000	0.07893	0.00987
26	8.634	0.00666	0.00077		**67**	7.951	0.08448	0.01062
27	8.630	0.00711	0.00082		**68**	7.897	0.09067	0.01148
28	8.625	0.00778	0.00090		**69**	7.836	0.09755	0.01245
29	8.618	0.00855	0.00099		**70**	7.768	0.10517	0.01354
30	8.610	0.00941	0.00109		**71**	7.694	0.11359	0.01476
31	8.602	0.01033	0.00120		**72**	7.612	0.12287	0.01614
32	8.594	0.01131	0.00132		**73**	7.521	0.13306	0.01769
33	8.585	0.01237	0.00144		**74**	7.422	0.14425	0.01943
34	8.575	0.01350	0.00157		**75**	7.314	0.15650	0.02140
35	8.565	0.01469	0.00172		**76**	7.195	0.16987	0.02361
36	8.554	0.01595	0.00186		**77**	7.065	0.18445	0.02611
37	8.542	0.01727	0.00202		**78**	6.924	0.20029	0.02893
38	8.530	0.01865	0.00219		**79**	6.771	0.21747	0.03212
39	8.518	0.02008	0.00236		**80**	6.605	0.23604	0.03574
40	8.505	0.02156	0.00253		**81**	6.426	0.25605	0.03985
41	8.492	0.02307	0.00272		**82**	6.233	0.27754	0.04453
42	8.478	0.02462	0.00290		**83**	6.026	0.30052	0.04987
43	8.464	0.02618	0.00309		**84**	5.805	0.32498	0.05598
44	8.451	0.02776	0.00328		**85**	5.570	0.35088	0.06300
45	8.437	0.02934	0.00348		**86**	5.321	0.37815	0.07107
46	8.423	0.03092	0.00367		**87**	5.059	0.40665	0.08039
47	8.409	0.03250	0.00387		**88**	4.784	0.43617	0.09117

x	$\ddot{a}_x$	A_x	P_x		x	$\ddot{a}_x$	A_x	P_x
48	8.396	0.03407	0.00406		**89**	4.499	0.46645	0.10368
49	8.382	0.03564	0.00425		**90**	4.205	0.49710	0.11822
50	8.368	0.03721	0.00445		**91**	3.904	0.52757	0.13515
51	8.354	0.03879	0.00464		**92**	3.598	0.55713	0.15485
52	8.340	0.04038	0.00484		**93**	3.291	0.58473	0.17767
53	8.326	0.04201	0.00505		**94**	2.986	0.60875	0.20389
54	8.311	0.04369	0.00526		**95**	2.684	0.62659	0.23341
55	8.296	0.04544	0.00548		**96**	2.389	0.63356	0.26520
56	8.280	0.04729	0.00571		**97**	2.098	0.62031	0.29568
57	8.262	0.04926	0.00596		**98**	1.802	0.56564	0.31389
58	8.244	0.05139	0.00623		**99**	1.470	0.41460	0.28198
59	8.223	0.05370	0.00653		**100**	1.000	0.00000	0.00000
60	8.201	0.05624	0.00686					

xiv. Table of Assurance Functions $i = 14\%$

x	$\ddot{a}_x$	A_x	P_x		x	$\ddot{a}_x$	A_x	P_x
20	8.091	0.00636	0.00079		**61**	7.717	0.05207	0.00675
21	8.086	0.00704	0.00087		**62**	7.695	0.05476	0.00712
22	8.083	0.00736	0.00091		**63**	7.670	0.05780	0.00754
23	8.086	0.00702	0.00087		**64**	7.641	0.06122	0.00801
24	8.092	0.00626	0.00077		**65**	7.609	0.06510	0.00856
25	8.096	0.00570	0.00070		**66**	7.573	0.06951	0.00918
26	8.097	0.00566	0.00070		**67**	7.532	0.07448	0.00989
27	8.094	0.00603	0.00075		**68**	7.486	0.08007	0.01070
28	8.089	0.00662	0.00082		**69**	7.434	0.08631	0.01161
29	8.083	0.00731	0.00090		**70**	7.377	0.09326	0.01264
30	8.077	0.00807	0.00100		**71**	7.313	0.10099	0.01381
31	8.070	0.00890	0.00110		**72**	7.242	0.10955	0.01513
32	8.063	0.00979	0.00121		**73**	7.163	0.11902	0.01662
33	8.055	0.01075	0.00133		**74**	7.077	0.12947	0.01830
34	8.047	0.01177	0.00146		**75**	6.981	0.14097	0.02019
35	8.038	0.01285	0.00160		**76**	6.876	0.15360	0.02234
36	8.029	0.01400	0.00174		**77**	6.761	0.16744	0.02476
37	8.019	0.01521	0.00190		**78**	6.635	0.18256	0.02751
38	8.009	0.01647	0.00206		**79**	6.498	0.19905	0.03063
39	7.998	0.01778	0.00222		**80**	6.348	0.21698	0.03418
40	7.987	0.01913	0.00240		**81**	6.186	0.23640	0.03822
41	7.976	0.02052	0.00257		**82**	6.010	0.25736	0.04282
42	7.964	0.02193	0.00275		**83**	5.820	0.27991	0.04809
43	7.952	0.02336	0.00294		**84**	5.617	0.30404	0.05413
44	7.941	0.02480	0.00312		**85**	5.399	0.32973	0.06107
45	7.929	0.02624	0.00331		**86**	5.167	0.35691	0.06907
46	7.917	0.02767	0.00350		**87**	4.922	0.38548	0.07832
47	7.906	0.02909	0.00368		**88**	4.664	0.41525	0.08903

x	$\ddot{a}_x$	A_x	P_x		x	$\ddot{a}_x$	A_x	P_x
48	7.894	0.03051	0.00386		**89**	4.395	0.44594	0.10147
49	7.883	0.03190	0.00405		**90**	4.115	0.47719	0.11595
50	7.871	0.03329	0.00423		**91**	3.828	0.50846	0.13281
51	7.860	0.03468	0.00441		**92**	3.536	0.53904	0.15245
52	7.849	0.03607	0.00460		**93**	3.241	0.56784	0.17522
53	7.837	0.03748	0.00478		**94**	2.946	0.59330	0.20139
54	7.825	0.03893	0.00498		**95**	2.654	0.61279	0.23088
55	7.813	0.04043	0.00518		**96**	2.367	0.62169	0.26267
56	7.800	0.04201	0.00539		**97**	2.083	0.61068	0.29322
57	7.786	0.04369	0.00561		**98**	1.793	0.55871	0.31165
58	7.771	0.04550	0.00586		**99**	1.466	0.41097	0.28029
59	7.755	0.04748	0.00612		**100**	1.000	0.00000	0.00000
60	7.737	0.04965	0.00642					

xv. Table of Assurance Functions $i = 15\%$

x	$\ddot{a}_x$	A_x	P_x		x	$\ddot{a}_x$	A_x	P_x
20	7.622	0.00577	0.00076		**61**	7.310	0.04639	0.00635
21	7.617	0.00643	0.00084		**62**	7.292	0.04873	0.00668
22	7.615	0.00673	0.00088		**63**	7.271	0.05137	0.00706
23	7.618	0.00636	0.00084		**64**	7.248	0.05437	0.00750
24	7.624	0.00557	0.00073		**65**	7.221	0.05780	0.00800
25	7.629	0.00497	0.00065		**66**	7.191	0.06173	0.00858
26	7.629	0.00488	0.00064		**67**	7.156	0.06619	0.00925
27	7.627	0.00519	0.00068		**68**	7.117	0.07122	0.01001
28	7.623	0.00571	0.00075		**69**	7.073	0.07688	0.01087
29	7.618	0.00633	0.00083		**70**	7.024	0.08323	0.01185
30	7.613	0.00702	0.00092		**71**	6.968	0.09032	0.01296
31	7.607	0.00777	0.00102		**72**	6.907	0.09823	0.01422
32	7.601	0.00858	0.00113		**73**	6.839	0.10701	0.01565
33	7.594	0.00945	0.00124		**74**	6.763	0.11676	0.01727
34	7.587	0.01039	0.00137		**75**	6.679	0.12754	0.01910
35	7.579	0.01138	0.00150		**76**	6.586	0.13945	0.02117
36	7.571	0.01244	0.00164		**77**	6.483	0.15257	0.02353
37	7.563	0.01355	0.00179		**78**	6.370	0.16698	0.02621
38	7.554	0.01471	0.00195		**79**	6.247	0.18277	0.02926
39	7.545	0.01592	0.00211		**80**	6.111	0.20003	0.03273
40	7.535	0.01717	0.00228		**81**	5.964	0.21882	0.03669
41	7.525	0.01845	0.00245		**82**	5.803	0.23922	0.04122
42	7.515	0.01976	0.00263		**83**	5.629	0.26127	0.04642
43	7.505	0.02108	0.00281		**84**	5.441	0.28499	0.05238
44	7.495	0.02241	0.00299		**85**	5.239	0.31038	0.05925
45	7.485	0.02373	0.00317		**86**	5.023	0.33738	0.06717
46	7.475	0.02504	0.00335		**87**	4.793	0.36591	0.07634
47	7.465	0.02634	0.00353		**88**	4.550	0.39578	0.08698

x	$\ddot{a}_x$	A_x	P_x		x	$\ddot{a}_x$	A_x	P_x
48	7.455	0.02763	0.00371		**89**	4.296	0.42676	0.09935
49	7.445	0.02889	0.00388		**90**	4.030	0.45848	0.11375
50	7.435	0.03013	0.00405		**91**	3.757	0.49041	0.13055
51	7.426	0.03137	0.00422		**92**	3.476	0.52185	0.15011
52	7.416	0.03260	0.00440		**93**	3.193	0.55173	0.17282
53	7.407	0.03383	0.00457		**94**	2.908	0.57847	0.19894
54	7.397	0.03509	0.00474		**95**	2.625	0.59950	0.22839
55	7.387	0.03639	0.00493		**96**	2.345	0.61019	0.26017
56	7.377	0.03775	0.00512		**97**	2.068	0.60132	0.29079
57	7.365	0.03919	0.00532		**98**	1.784	0.55194	0.30943
58	7.353	0.04075	0.00554		**99**	1.462	0.40739	0.27862
59	7.340	0.04244	0.00578		**100**	1.000	0.00000	0.00000
60	7.326	0.04431	0.00605					

B) FEMALE ASSURED LIVES

a. Mortality Functions

x	m_x	q_x	l_x	d_x	L_x	T_x	e_x
20	0.0004057	0.0004056	1,000,000	405	999,798	70,090,257	70
21	0.0004237	0.0004237	999,595	423	999,384	69,090,460	69
22	0.0004426	0.0004425	999,172	442	998,951	68,091,076	68
23	0.0004624	0.0004622	998,730	461	998,500	67,092,125	67
24	0.0004830	0.0004828	998,269	482	998,028	66,093,626	66
25	0.0005045	0.0005044	997,787	503	997,536	65,095,598	65
26	0.0005270	0.0005268	997,284	525	997,022	64,098,062	64
27	0.0005505	0.0005503	996,759	548	996,485	63,101,041	63
28	0.0005750	0.0005748	996,211	572	995,925	62,104,556	62
29	0.0006006	0.0006004	995,639	597	995,341	61,108,631	61
30	0.0006274	0.0006272	995,042	624	994,730	60,113,290	60
31	0.0006553	0.0006551	994,418	651	994,093	59,118,560	59
32	0.0006846	0.0006843	993,767	680	993,427	58,124,468	58
33	0.0007151	0.0007148	993,087	709	992,733	57,131,041	58
34	0.0007469	0.0007467	992,378	740	992,008	56,138,308	57
35	0.0007802	0.0007799	991,638	773	991,252	55,146,300	56
36	0.0008150	0.0008147	990,865	807	990,462	54,155,049	55
37	0.0008513	0.0008510	990,058	842	989,637	53,164,587	54
38	0.0008893	0.0008889	989,216	879	988,777	52,174,950	53
39	0.0009289	0.0009285	988,337	917	987,879	51,186,174	52
40	0.0009703	0.0009698	987,420	957	986,942	50,198,295	51
41	0.0010136	0.0010130	986,463	999	985,964	49,211,354	50
42	0.0010587	0.0010582	985,464	1,042	984,943	48,225,390	49
43	0.0011059	0.0011053	984,422	1,088	983,878	47,240,447	48
44	0.0011552	0.0011545	983,334	1,135	982,767	46,256,569	47
45	0.0012067	0.0012060	982,199	1,184	981,607	45,273,803	46

x	m_x	q_x	l_x	d_x	L_x	T_x	e_x
46	0.0012605	0.0012597	981,015	1,235	980,398	44,292,196	45
47	0.0013166	0.0013158	979,780	1,289	979,136	43,311,798	44
48	0.0013753	0.0013744	978,491	1,344	977,819	42,332,663	43
49	0.0014366	0.0014356	977,147	1,402	976,446	41,354,844	42
50	0.0015007	0.0014995	975,745	1,463	975,014	40,378,398	41
51	0.0015675	0.0015663	974,282	1,526	973,519	39,403,384	40
52	0.0016374	0.0016361	972,756	1,591	971,961	38,429,865	40
53	0.0017104	0.0017089	971,165	1,659	970,336	37,457,905	39
54	0.0017866	0.0017850	969,506	1,730	968,641	36,487,569	38
55	0.0018662	0.0018645	967,776	1,804	966,874	35,518,928	37
56	0.0019494	0.0019475	965,972	1,881	965,032	34,552,054	36
57	0.0020363	0.0020342	964,091	1,961	963,111	33,587,023	35
58	0.0021271	0.0021248	962,130	2,044	961,108	32,623,912	34
59	0.0022219	0.0022194	960,086	2,130	959,021	31,662,804	33
60	0.0023209	0.0023182	957,956	2,220	956,846	30,703,783	32
61	0.0024243	0.0024214	955,736	2,314	954,579	29,746,937	31
62	0.0025324	0.0025292	953,422	2,411	952,217	28,792,358	30
63	0.0026452	0.0026417	951,011	2,512	949,755	27,840,142	29
64	0.0027631	0.0027593	948,499	2,617	947,191	26,890,387	28
65	0.0028863	0.0028821	945,882	2,726	944,519	25,943,196	27
66	0.0030329	0.0030283	943,156	2,856	941,728	24,998,677	27
67	0.0032059	0.0032008	940,300	3,009	938,796	24,056,949	26
68	0.0034090	0.0034032	937,291	3,189	935,697	23,118,154	25
69	0.0036465	0.0036398	934,102	3,399	932,403	22,182,457	24
70	0.0039238	0.0039161	930,703	3,644	928,881	21,250,055	23
71	0.0042473	0.0042383	927,059	3,929	925,095	20,321,174	22
72	0.0046249	0.0046142	923,130	4,259	921,001	19,396,079	21
73	0.0050660	0.0050532	918,871	4,643	916,550	18,475,079	20
74	0.0055823	0.0055667	914,228	5,089	911,684	17,558,529	19

x	m_x	q_x	l_x	d_x	L_x	T_x	e_x
75	0.0061878	0.0061687	909,139	5,608	906,335	16,646,846	18
76	0.0068998	0.0068761	903,531	6,212	900,425	15,740,511	17
77	0.0077396	0.0077097	897,319	6,918	893,860	14,840,086	17
78	0.0087333	0.0086953	890,401	7,742	886,530	13,946,226	16
79	0.0099132	0.0098643	882,659	8,706	878,306	13,059,696	15
80	0.0113196	0.0112558	873,953	9,837	869,035	12,181,390	14
81	0.0130025	0.0129183	864,116	11,162	858,535	11,312,355	13
82	0.0150245	0.0149122	852,954	12,719	846,595	10,453,820	12
83	0.0174644	0.0173128	840,235	14,546	832,962	9,607,226	11
84	0.0204213	0.0202142	825,689	16,690	817,344	8,774,264	11
85	0.0240211	0.0237349	808,999	19,201	799,399	7,956,920	10
86	0.0284238	0.0280236	789,798	22,133	778,732	7,157,521	9
87	0.0338336	0.0332677	767,665	25,538	754,896	6,378,790	8
88	0.040513	0.0397033	742,127	29,464	727,395	5,623,894	8
89	0.0487998	0.0476282	712,663	33,942	695,692	4,896,499	7
90	0.0591318	0.0574174	678,721	38,970	659,236	4,200,807	6
91	0.0720779	0.0695416	639,751	44,489	617,507	3,541,571	6
92	0.0883816	0.0845885	595,262	50,352	570,086	2,924,064	5
93	0.1090185	0.1032862	544,910	56,281	516,770	2,353,978	4
94	0.1352750	0.1265243	488,629	61,823	457,718	1,837,209	4
95	0.1688547	0.1553684	426,806	66,312	393,650	1,379,491	3
96	0.2120252	0.1910557	360,494	68,874	326,057	985,841	3
97	0.2678184	0.2349533	291,620	68,517	257,362	659,784	2
98	0.3403079	0.2884488	223,103	64,353	190,927	402,423	2
99	0.4349930	0.3527308	158,750	55,996	130,752	211,496	1
100	0.5593337	0.4284102	102,754	44,020	80,744	80,744	1

b. Monetary Functions

i. Table of Monetary Functions $i = 1\%$

x	D_x	N_x	S_x	C_x	M_x	R_x
20	819,544	41,406,995	1,337,607,192	329	371,961	25,116,692
21	811,102	40,587,450	1,296,200,197	340	371,632	24,744,731
22	802,731	39,776,349	1,255,612,747	352	371,293	24,373,099
23	794,432	38,973,618	1,215,836,398	363	370,941	24,001,806
24	786,203	38,179,186	1,176,862,780	376	370,578	23,630,865
25	778,043	37,392,983	1,138,683,594	388	370,202	23,260,287
26	769,951	36,614,941	1,101,290,610	401	369,814	22,890,085
27	761,926	35,844,990	1,064,675,670	415	369,412	22,520,271
28	753,968	35,083,063	1,028,830,680	429	368,998	22,150,859
29	746,074	34,329,095	993,747,617	443	368,569	21,781,861
30	738,244	33,583,021	959,418,522	458	368,126	21,413,292
31	730,477	32,844,776	925,835,501	473	367,668	21,045,166
32	722,771	32,114,300	892,990,725	490	367,194	20,677,498
33	715,125	31,391,529	860,876,425	505	366,705	20,310,304
34	707,539	30,676,404	829,484,896	522	366,199	19,943,599
35	700,011	29,968,865	798,808,492	540	365,677	19,577,400
36	692,540	29,268,853	768,839,628	558	365,136	19,211,724
37	685,125	28,576,313	739,570,774	577	364,578	18,846,587
38	677,765	27,891,188	710,994,461	596	364,001	18,482,009
39	670,458	27,213,424	683,103,273	616	363,405	18,118,008
40	663,204	26,542,966	655,889,849	636	362,789	17,754,603
41	656,001	25,879,762	629,346,884	658	362,153	17,391,814
42	648,848	25,223,761	603,467,122	679	361,495	17,029,662
43	641,745	24,574,913	578,243,361	702	360,815	16,668,167
44	634,688	23,933,168	553,668,448	725	360,113	16,307,351
45	627,679	23,298,480	529,735,280	749	359,388	15,947,238
46	620,715	22,670,801	506,436,800	774	358,639	15,587,850

x	D_x	N_x	S_x	C_x	M_x	R_x
47	613,796	22,050,085	483,765,999	800	357,865	15,229,212
48	606,919	21,436,289	461,715,914	825	357,066	14,871,346
49	600,085	20,829,370	440,279,625	852	356,240	14,514,281
50	593,291	20,229,285	419,450,255	881	355,388	14,158,041
51	586,536	19,635,995	399,220,969	910	354,507	13,802,653
52	579,819	19,049,459	379,584,975	939	353,597	13,448,146
53	573,139	18,469,640	360,535,516	969	352,658	13,094,549
54	566,495	17,896,500	342,065,876	1,001	351,689	12,741,890
55	559,886	17,330,005	324,169,376	1,033	350,688	12,390,201
56	553,309	16,770,119	306,839,371	1,067	349,655	12,039,513
57	546,764	16,216,811	290,069,252	1,101	348,588	11,689,858
58	540,249	15,670,047	273,852,441	1,136	347,487	11,341,270
59	533,764	15,129,798	258,182,394	1,172	346,351	10,993,783
60	527,307	14,596,034	243,052,597	1,210	345,178	10,647,432
61	520,876	14,068,727	228,456,563	1,249	343,968	10,302,254
62	514,470	13,547,852	214,387,836	1,288	342,720	9,958,286
63	508,088	13,033,382	200,839,984	1,329	341,432	9,615,566
64	501,729	12,525,294	187,806,602	1,371	340,103	9,274,135
65	495,390	12,023,565	175,281,309	1,414	338,732	8,934,032
66	489,072	11,528,174	163,257,744	1,466	337,319	8,595,300
67	482,763	11,039,102	151,729,569	1,530	335,852	8,257,981
68	476,454	10,556,339	140,690,467	1,605	334,323	7,922,129
69	470,132	10,079,885	130,134,128	1,694	332,718	7,587,807
70	463,783	9,609,753	120,054,243	1,798	331,024	7,255,089
71	457,393	9,145,970	110,444,490	1,919	329,226	6,924,065
72	450,945	8,688,577	101,298,520	2,060	327,307	6,594,839
73	444,421	8,237,631	92,609,943	2,223	325,247	6,267,532
74	437,797	7,793,211	84,372,312	2,413	323,023	5,942,285
75	431,050	7,355,414	76,579,101	2,633	320,611	5,619,262

x	D_x	N_x	S_x	C_x	M_x	R_x
76	424,149	6,924,364	69,223,688	2,887	317,978	5,298,652
77	417,062	6,500,215	62,299,324	3,184	315,091	4,980,674
78	409,750	6,083,152	55,799,109	3,527	311,907	4,665,583
79	402,165	5,673,403	49,715,957	3,927	308,380	4,353,676
80	394,256	5,271,238	44,042,554	4,394	304,452	4,045,296
81	385,959	4,876,982	38,771,317	4,936	300,059	3,740,844
82	377,201	4,491,023	33,894,335	5,569	295,122	3,440,785
83	367,897	4,113,822	29,403,312	6,306	289,553	3,145,663
84	357,949	3,745,925	25,289,490	7,164	283,247	2,856,110
85	347,241	3,387,976	21,543,565	8,160	276,084	2,572,862
86	335,643	3,040,734	18,155,590	9,313	267,924	2,296,778
87	323,007	2,705,091	15,114,855	10,639	258,611	2,028,855
88	309,170	2,382,084	12,409,764	12,153	247,972	1,770,244
89	293,956	2,072,914	10,027,680	13,862	235,819	1,522,272
90	277,184	1,778,958	7,954,766	15,757	221,957	1,286,453
91	258,682	1,501,775	6,175,808	17,811	206,200	1,064,496
92	238,310	1,243,093	4,674,033	19,959	188,389	858,297
93	215,992	1,004,783	3,430,940	22,088	168,430	669,908
94	191,765	788,791	2,426,157	24,023	146,342	501,478
95	165,844	597,026	1,637,366	25,512	122,320	355,135
96	138,690	431,182	1,040,340	26,235	96,808	232,816
97	111,082	292,492	609,158	25,841	70,573	136,008
98	84,142	181,409	316,667	24,030	44,732	65,435
99	59,279	97,268	135,257	20,702	20,702	20,702
100	37,989	37,989	37,989	0	0	0

ii. Table of Monetary Functions $i = 2\%$

x	D_x	N_x	S_x	C_x	M_x	R_x
20	672,971	25,509,600	716,657,487	267	158,878	10,331,160
21	659,509	24,836,628	691,147,888	274	158,611	10,172,282
22	646,303	24,177,120	666,311,259	280	158,337	10,013,672
23	633,351	23,530,816	642,134,140	287	158,057	9,855,335
24	620,645	22,897,466	618,603,324	294	157,770	9,697,278
25	608,182	22,276,820	595,705,858	301	157,476	9,539,508
26	595,956	21,668,638	573,429,038	308	157,176	9,382,032
27	583,963	21,072,682	551,760,400	315	156,868	9,224,856
28	572,198	20,488,719	530,687,718	322	156,553	9,067,988
29	560,657	19,916,521	510,198,999	330	156,231	8,911,435
30	549,334	19,355,864	490,282,478	338	155,902	8,755,203
31	538,225	18,806,530	470,926,614	345	155,564	8,599,302
32	527,326	18,268,305	452,120,084	354	155,218	8,443,738
33	516,632	17,740,980	433,851,779	362	154,865	8,288,519
34	506,141	17,224,347	416,110,799	370	154,503	8,133,655
35	495,846	16,718,207	398,886,452	379	154,133	7,979,152
36	485,745	16,222,360	382,168,245	388	153,754	7,825,018
37	475,833	15,736,615	365,945,885	397	153,366	7,671,264
38	466,106	15,260,782	350,209,270	406	152,970	7,517,898
39	456,561	14,794,677	334,948,487	415	152,563	7,364,929
40	447,193	14,338,116	320,153,811	425	152,148	7,212,365
41	438,000	13,890,923	305,815,695	435	151,723	7,060,217
42	428,977	13,452,923	291,924,772	445	151,288	6,908,494
43	420,121	13,023,947	278,471,848	455	150,844	6,757,205
44	411,428	12,603,826	265,447,902	466	150,388	6,606,361
45	402,895	12,192,399	252,844,075	476	149,923	6,455,973
46	394,519	11,789,504	240,651,677	487	149,447	6,306,050
47	386,296	11,394,985	228,862,173	498	148,960	6,156,603

x	D_x	N_x	S_x	C_x	M_x	R_x
48	378,224	11,008,689	217,467,188	509	148,462	6,007,643
49	370,298	10,630,465	206,458,500	521	147,952	5,859,182
50	362,516	10,260,167	195,828,035	533	147,431	5,711,230
51	354,875	9,897,650	185,567,868	545	146,899	5,563,798
52	347,372	9,542,775	175,670,217	557	146,354	5,416,900
53	340,004	9,195,403	166,127,442	569	145,797	5,270,546
54	332,768	8,855,399	156,932,039	582	145,227	5,124,750
55	325,661	8,522,631	148,076,640	595	144,645	4,979,522
56	318,680	8,196,970	139,554,009	608	144,050	4,834,877
57	311,823	7,878,290	131,357,039	622	143,441	4,690,828
58	305,087	7,566,467	123,478,748	635	142,820	4,547,386
59	298,470	7,261,380	115,912,281	649	142,184	4,404,566
60	291,968	6,962,911	108,650,901	663	141,535	4,262,382
61	285,580	6,670,943	101,687,990	678	140,872	4,120,847
62	279,302	6,385,363	95,017,047	692	140,194	3,979,976
63	273,133	6,106,061	88,631,684	707	139,501	3,839,782
64	267,070	5,832,927	82,525,624	722	138,794	3,700,281
65	261,111	5,565,857	76,692,696	738	138,072	3,561,486
66	255,254	5,304,745	71,126,840	758	137,334	3,423,415
67	249,491	5,049,492	65,822,094	783	136,576	3,286,081
68	243,816	4,800,001	60,772,602	813	135,793	3,149,505
69	238,222	4,556,184	55,972,602	850	134,980	3,013,712
70	232,701	4,317,962	51,416,417	893	134,130	2,878,732
71	227,245	4,085,261	47,098,455	944	133,237	2,744,601
72	221,845	3,858,015	43,013,195	1,003	132,293	2,611,364
73	216,492	3,636,170	39,155,180	1,072	131,289	2,479,072
74	211,175	3,419,678	35,519,010	1,152	130,217	2,347,782
75	205,882	3,208,503	32,099,333	1,245	129,064	2,217,566
76	200,600	3,002,621	28,890,830	1,352	127,819	2,088,501

x	D_x	N_x	S_x	C_x	M_x	R_x
77	195,314	2,802,022	25,888,208	1,476	126,467	1,960,682
78	190,008	2,606,708	23,086,186	1,620	124,991	1,834,215
79	184,663	2,416,700	20,479,479	1,786	123,371	1,709,224
80	179,256	2,232,037	18,062,779	1,978	121,586	1,585,853
81	173,763	2,052,780	15,830,742	2,201	119,607	1,464,267
82	168,156	1,879,017	13,777,962	2,458	117,407	1,344,660
83	162,400	1,710,861	11,898,945	2,756	114,949	1,227,253
84	156,460	1,548,461	10,188,083	3,101	112,192	1,112,304
85	150,291	1,392,002	8,639,622	3,497	109,092	1,000,112
86	143,847	1,241,711	7,247,620	3,952	105,595	891,020
87	137,075	1,097,863	6,005,910	4,471	101,642	785,426
88	129,916	960,789	4,908,046	5,057	97,172	683,783
89	122,312	830,873	3,947,257	5,711	92,115	586,612
90	114,203	708,561	3,116,384	6,429	86,404	494,497
91	105,535	594,358	2,407,824	7,195	79,975	408,093
92	96,270	488,824	1,813,465	7,984	72,780	328,117
93	86,399	392,553	1,324,642	8,749	64,797	255,337
94	75,956	306,154	932,088	9,422	56,048	190,541
95	65,045	230,198	625,934	9,908	46,626	134,493
96	53,862	165,153	395,736	10,089	36,718	87,867
97	42,717	111,291	230,583	9,840	26,629	51,149
98	32,040	68,574	119,292	9,060	16,790	24,519
99	22,351	36,534	50,718	7,729	7,729	7,729
100	14,183	14,183	14,183	0	0	0

iii. Table of Monetary Functions $i = 3\%$

x	D_x	N_x	S_x	C_x	M_x	R_x
20	553,676	16,414,281	400,063,105	218	70,399	4,341,499
21	537,332	15,860,606	383,648,824	221	70,181	4,271,100
22	521,460	15,323,274	367,788,218	224	69,961	4,200,918
23	506,048	14,801,814	352,464,944	227	69,737	4,130,958
24	491,082	14,295,766	337,663,130	230	69,510	4,061,221
25	476,549	13,804,683	323,367,365	233	69,280	3,991,711
26	462,435	13,328,135	309,562,682	236	69,046	3,922,432
27	448,730	12,865,699	296,234,547	240	68,810	3,853,385
28	435,421	12,416,969	283,368,848	243	68,571	3,784,575
29	422,496	11,981,549	270,951,878	246	68,328	3,716,005
30	409,944	11,559,053	258,970,330	250	68,082	3,647,677
31	397,754	11,149,109	247,411,277	253	67,832	3,579,595
32	385,917	10,751,354	236,262,168	256	67,579	3,511,763
33	374,420	10,365,438	225,510,813	260	67,323	3,444,183
34	363,255	9,991,018	215,145,376	263	67,064	3,376,860
35	352,412	9,627,763	205,154,358	267	66,801	3,309,797
36	341,881	9,275,351	195,526,595	270	66,534	3,242,996
37	331,653	8,933,471	186,251,243	274	66,264	3,176,462
38	321,719	8,601,818	177,317,772	278	65,990	3,110,199
39	312,071	8,280,099	168,715,954	281	65,712	3,044,209
40	302,700	7,968,028	160,435,855	285	65,431	2,978,497
41	293,599	7,665,328	152,467,826	289	65,146	2,913,066
42	284,759	7,371,729	144,802,498	292	64,857	2,847,920
43	276,173	7,086,970	137,430,769	296	64,565	2,783,063
44	267,832	6,810,798	130,343,799	300	64,269	2,718,497
45	259,731	6,542,965	123,533,001	304	63,969	2,654,229
46	251,862	6,283,234	116,990,036	308	63,665	2,590,260
47	244,219	6,031,371	110,706,803	312	63,357	2,526,595

x	D_x	N_x	S_x	C_x	M_x	R_x
48	236,794	5,787,153	104,675,431	316	63,045	2,463,238
49	229,581	5,550,359	98,888,279	320	62,729	2,400,193
50	222,574	5,320,778	93,337,920	324	62,409	2,337,464
51	215,768	5,098,204	88,017,142	328	62,085	2,275,055
52	209,155	4,882,436	82,918,938	332	61,757	2,212,969
53	202,731	4,673,281	78,036,502	336	61,425	2,151,212
54	196,490	4,470,550	73,363,221	340	61,089	2,089,787
55	190,427	4,274,060	68,892,671	345	60,749	2,028,698
56	184,536	4,083,634	64,618,611	349	60,404	1,967,950
57	178,812	3,899,098	60,534,977	353	60,055	1,907,546
58	173,251	3,720,286	56,635,879	357	59,702	1,847,491
59	167,847	3,547,036	52,915,593	362	59,345	1,787,789
60	162,597	3,379,189	49,368,557	366	58,983	1,728,444
61	157,495	3,216,592	45,989,368	370	58,617	1,669,461
62	152,538	3,059,097	42,772,777	375	58,247	1,610,844
63	147,720	2,906,559	39,713,680	379	57,872	1,552,597
64	143,039	2,758,838	36,807,121	383	57,494	1,494,725
65	138,490	2,615,799	34,048,283	387	57,110	1,437,231
66	134,068	2,477,310	31,432,483	394	56,723	1,380,121
67	129,769	2,343,241	28,955,174	403	56,329	1,323,398
68	125,587	2,213,472	26,611,932	415	55,926	1,267,069
69	121,514	2,087,885	24,398,460	429	55,511	1,211,143
70	117,545	1,966,371	22,310,575	447	55,082	1,155,632
71	113,675	1,848,826	20,344,204	468	54,635	1,100,551
72	109,896	1,735,151	18,495,378	492	54,167	1,045,916
73	106,203	1,625,255	16,760,226	521	53,675	991,749
74	102,589	1,519,052	15,134,971	554	53,154	938,074
75	99,046	1,416,463	13,615,919	593	52,599	884,921
76	95,568	1,317,417	12,199,456	638	52,006	832,321

x	D_x	N_x	S_x	C_x	M_x	R_x
77	92,147	1,221,849	10,882,039	690	51,368	780,315
78	88,773	1,129,702	9,660,191	749	50,678	728,947
79	85,438	1,040,928	8,530,489	818	49,929	678,269
80	82,132	955,490	7,489,561	898	49,111	628,340
81	78,842	873,359	6,534,070	989	48,213	579,229
82	75,557	794,517	5,660,712	1,094	47,225	531,015
83	72,262	718,960	4,866,195	1,215	46,131	483,791
84	68,943	646,698	4,147,235	1,353	44,916	437,660
85	65,582	577,755	3,500,537	1,511	43,563	392,744
86	62,161	512,173	2,922,782	1,691	42,052	349,181
87	58,659	450,013	2,410,609	1,895	40,361	307,129
88	55,056	391,354	1,960,596	2,122	38,466	266,768
89	51,330	336,298	1,569,243	2,373	36,344	228,302
90	47,461	284,968	1,232,945	2,646	33,971	191,958
91	43,433	237,507	947,977	2,932	31,325	157,987
92	39,236	194,073	710,470	3,222	28,392	126,662
93	34,871	154,837	516,397	3,497	25,170	98,270
94	30,358	119,966	361,560	3,729	21,673	73,100
95	25,745	89,608	241,593	3,883	17,944	51,426
96	21,112	63,863	151,985	3,916	14,061	33,482
97	16,581	42,751	88,123	3,782	10,145	19,421
98	12,316	26,170	45,371	3,449	6,363	9,276
99	8,508	13,855	19,201	2,914	2,914	2,914
100	5,347	5,347	5,347	0	0	0

iv. Table of Monetary Functions $i = 4\%$

x	D_x	N_x	S_x	C_x	M_x	R_x
20	456,387	10,966,745	232,399,284	178	32,633	1,869,852
21	438,656	10,510,358	221,432,539	178	32,455	1,837,219
22	421,606	10,071,702	210,922,181	179	32,277	1,804,764
23	405,211	9,650,096	200,850,479	180	32,097	1,772,488
24	389,446	9,244,885	191,200,383	181	31,917	1,740,390
25	374,287	8,855,439	181,955,498	181	31,737	1,708,473
26	359,710	8,481,152	173,100,059	182	31,555	1,676,736
27	345,693	8,121,443	164,618,907	183	31,373	1,645,181
28	332,214	7,775,750	156,497,464	183	31,190	1,613,808
29	319,253	7,443,536	148,721,714	184	31,007	1,582,618
30	306,790	7,124,283	141,278,178	185	30,823	1,551,611
31	294,805	6,817,493	134,153,895	186	30,638	1,520,788
32	283,281	6,522,688	127,336,402	186	30,452	1,490,150
33	272,199	6,239,406	120,813,715	187	30,266	1,459,698
34	261,543	5,967,207	114,574,308	188	30,079	1,429,432
35	251,296	5,705,664	108,607,101	188	29,892	1,399,353
36	241,443	5,454,367	102,901,437	189	29,703	1,369,461
37	231,967	5,212,925	97,447,070	190	29,514	1,339,758
38	222,856	4,980,957	92,234,146	190	29,324	1,310,244
39	214,094	4,758,101	87,253,188	191	29,134	1,280,920
40	205,669	4,544,007	82,495,087	192	28,943	1,251,786
41	197,567	4,338,338	77,951,080	192	28,751	1,222,843
42	189,776	4,140,771	73,612,742	193	28,559	1,194,091
43	182,284	3,950,996	69,471,971	194	28,366	1,165,533
44	175,079	3,768,712	65,520,975	194	28,172	1,137,167
45	168,151	3,593,633	61,752,263	195	27,978	1,108,994
46	161,489	3,425,482	58,158,630	195	27,783	1,081,016
47	155,082	3,263,994	54,733,148	196	27,588	1,053,233

x	D_x	N_x	S_x	C_x	M_x	R_x
48	148,921	3,108,911	51,469,154	197	27,391	1,025,646
49	142,997	2,959,990	48,360,243	197	27,195	998,254
50	137,300	2,816,993	45,400,253	198	26,997	971,059
51	131,821	2,679,694	42,583,259	199	26,800	944,062
52	126,552	2,547,873	39,903,565	199	26,601	917,263
53	121,486	2,421,320	37,355,692	200	26,402	890,662
54	116,614	2,299,835	34,934,372	200	26,202	864,260
55	111,929	2,183,221	32,634,537	201	26,002	838,057
56	107,423	2,071,292	30,451,317	201	25,802	812,055
57	103,090	1,963,869	28,380,025	202	25,601	786,253
58	98,924	1,860,779	26,416,156	202	25,399	760,653
59	94,917	1,761,855	24,555,377	202	25,197	735,254
60	91,064	1,666,938	22,793,522	203	24,994	710,057
61	87,358	1,575,875	21,126,584	203	24,791	685,062
62	83,795	1,488,516	19,550,709	204	24,588	660,271
63	80,368	1,404,721	18,062,193	204	24,384	635,683
64	77,073	1,324,353	16,657,471	204	24,180	611,298
65	73,904	1,247,280	15,333,119	205	23,976	587,118
66	70,857	1,173,375	14,085,839	206	23,771	563,143
67	67,925	1,102,518	12,912,463	209	23,565	539,372
68	65,104	1,034,593	11,809,945	213	23,356	515,807
69	62,387	969,489	10,775,352	218	23,143	492,451
70	59,769	907,102	9,805,863	225	22,924	469,309
71	57,245	847,333	8,898,761	233	22,699	446,384
72	54,810	790,087	8,051,429	243	22,466	423,685
73	52,459	735,277	7,261,341	255	22,223	401,219
74	50,187	682,818	6,526,064	269	21,968	378,996
75	47,988	632,631	5,843,246	285	21,699	357,028
76	45,857	584,644	5,210,615	303	21,415	335,328

x	D_x	N_x	S_x	C_x	M_x	R_x
77	43,790	538,786	4,625,971	325	21,112	313,914
78	41,782	494,996	4,087,185	349	20,787	292,802
79	39,825	453,214	3,592,189	378	20,438	272,015
80	37,916	413,389	3,138,975	410	20,060	251,577
81	36,047	375,473	2,725,586	448	19,650	231,517
82	34,213	339,426	2,350,112	491	19,202	211,868
83	32,407	305,213	2,010,687	539	18,711	192,666
84	30,621	272,806	1,705,474	595	18,172	173,954
85	28,848	242,185	1,432,668	658	17,577	155,782
86	27,080	213,338	1,190,482	730	16,918	138,206
87	25,309	186,258	977,145	810	16,189	121,287
88	23,526	160,949	790,887	898	15,379	105,098
89	21,723	137,423	629,938	995	14,481	89,719
90	19,893	115,700	492,515	1,098	13,486	75,238
91	18,029	95,808	376,815	1,206	12,388	61,752
92	16,130	77,778	281,008	1,312	11,182	49,364
93	14,198	61,648	203,229	1,410	9,871	38,181
94	12,242	47,450	141,581	1,489	8,461	28,311
95	10,282	35,208	94,131	1,536	6,971	19,850
96	8,350	24,927	58,923	1,534	5,435	12,879
97	6,495	16,576	33,996	1,467	3,901	7,444
98	4,778	10,081	17,419	1,325	2,434	3,543
99	3,269	5,304	7,338	1,109	1,109	1,109
100	2,035	2,035	2,035	0	0	0

v. Table of Monetary Functions $i = 5\%$

x	D_x	N_x	S_x	C_x	M_x	R_x
20	376,889	7,563,709	140,168,346	145	15,969	828,747
21	358,797	7,186,819	132,604,637	145	15,823	812,778
22	341,567	6,828,022	125,417,818	144	15,679	796,955
23	325,158	6,486,455	118,589,796	143	15,535	781,276
24	309,531	6,161,297	112,103,341	142	15,392	765,741
25	294,649	5,851,766	105,942,044	141	15,250	750,349
26	280,477	5,557,117	100,090,277	141	15,108	735,100
27	266,980	5,276,640	94,533,160	140	14,967	719,992
28	254,127	5,009,660	89,256,520	139	14,828	705,024
29	241,887	4,755,533	84,246,860	138	14,689	690,196
30	230,230	4,513,646	79,491,328	138	14,551	675,508
31	219,129	4,283,416	74,977,682	137	14,413	660,957
32	208,558	4,064,286	70,694,266	136	14,276	646,544
33	198,491	3,855,728	66,629,980	135	14,141	632,268
34	188,904	3,657,237	62,774,252	134	14,006	618,127
35	179,774	3,468,333	59,117,014	133	13,871	604,121
36	171,080	3,288,559	55,648,681	133	13,738	590,250
37	162,801	3,117,479	52,360,122	132	13,605	576,512
38	154,917	2,954,678	49,242,643	131	13,473	562,907
39	147,408	2,799,762	46,287,965	130	13,342	549,433
40	140,259	2,652,353	43,488,203	129	13,212	536,091
41	133,450	2,512,094	40,835,850	129	13,083	522,879
42	126,967	2,378,644	38,323,756	128	12,954	509,797
43	120,793	2,251,677	35,945,112	127	12,826	496,843
44	114,914	2,130,884	33,693,434	126	12,699	484,017
45	109,315	2,015,971	31,562,550	126	12,573	471,318
46	103,984	1,906,655	29,546,579	125	12,447	458,745
47	98,908	1,802,671	27,639,924	124	12,322	446,298

x	D_x	N_x	S_x	C_x	M_x	R_x
48	94,074	1,703,763	25,837,253	123	12,198	433,976
49	89,471	1,609,689	24,133,490	122	12,075	421,777
50	85,089	1,520,217	22,523,801	122	11,953	409,702
51	80,915	1,435,129	21,003,584	121	11,832	397,749
52	76,941	1,354,214	19,568,455	120	11,711	385,917
53	73,158	1,277,272	18,214,242	119	11,591	374,206
54	69,555	1,204,114	16,936,970	118	11,472	362,615
55	66,125	1,134,559	15,732,855	117	11,354	351,143
56	62,858	1,068,435	14,598,296	117	11,236	339,790
57	59,749	1,005,576	13,529,861	116	11,120	328,553
58	56,788	945,828	12,524,285	115	11,004	317,433
59	53,969	889,040	11,578,457	114	10,889	306,429
60	51,285	835,071	10,689,418	113	10,775	295,540
61	48,729	783,787	9,854,346	112	10,662	284,765
62	46,297	735,057	9,070,560	111	10,550	274,103
63	43,980	688,761	8,335,503	111	10,438	263,553
64	41,776	644,780	7,646,742	110	10,328	253,115
65	39,676	603,005	7,001,962	109	10,218	242,787
66	37,678	563,328	6,398,957	109	10,109	232,570
67	35,775	525,650	5,835,629	109	10,000	222,461
68	33,963	489,875	5,309,979	110	9,891	212,461
69	32,235	455,912	4,820,104	112	9,781	202,569
70	30,589	423,677	4,364,192	114	9,669	192,788
71	29,018	393,088	3,940,515	117	9,555	183,119
72	27,519	364,070	3,547,427	121	9,438	173,564
73	26,088	336,551	3,183,357	126	9,317	164,126
74	24,720	310,463	2,846,806	131	9,192	154,808
75	23,412	285,743	2,536,343	138	9,061	145,617
76	22,159	262,332	2,250,599	145	8,923	136,556

x	D_x	N_x	S_x	C_x	M_x	R_x
77	20,959	240,172	1,988,267	154	8,778	127,633
78	19,807	219,213	1,748,095	164	8,624	118,855
79	18,700	199,406	1,528,881	176	8,460	110,230
80	17,634	180,707	1,329,475	189	8,284	101,770
81	16,605	163,073	1,148,769	204	8,095	93,486
82	15,610	146,468	985,696	222	7,891	85,390
83	14,645	130,858	839,228	241	7,669	77,499
84	13,706	116,213	708,370	264	7,428	69,830
85	12,790	102,507	592,157	289	7,164	62,402
86	11,891	89,717	489,651	317	6,875	55,238
87	11,008	77,826	399,934	349	6,558	48,363
88	10,135	66,818	322,108	383	6,209	41,805
89	9,269	56,683	255,290	420	5,826	35,596
90	8,407	47,414	198,608	460	5,405	29,770
91	7,547	39,006	151,194	500	4,946	24,365
92	6,688	31,459	112,188	539	4,446	19,419
93	5,831	24,771	80,728	574	3,907	14,974
94	4,979	18,941	55,957	600	3,333	11,067
95	4,142	13,961	37,016	613	2,733	7,733
96	3,332	9,819	23,055	606	2,120	5,000
97	2,567	6,487	13,236	574	1,514	2,880
98	1,870	3,919	6,750	514	940	1,365
99	1,268	2,049	2,830	426	426	426
100	781	781	781	0	0	0

vi. Table of Monetary Functions $i = 6\%$

x	D_x	N_x	S_x	C_x	M_x	R_x
20	311,805	5,356,609	87,513,446	119	8,315	379,876
21	294,036	5,044,804	82,156,837	117	8,196	371,561
22	277,275	4,750,768	77,112,034	116	8,078	363,365
23	261,465	4,473,492	72,361,266	114	7,963	355,287
24	246,551	4,212,027	67,887,774	112	7,849	347,325
25	232,483	3,965,476	63,675,746	111	7,736	339,476
26	219,213	3,732,993	59,710,270	109	7,626	331,740
27	206,696	3,513,780	55,977,276	107	7,517	324,114
28	194,889	3,307,085	52,463,496	106	7,410	316,597
29	183,752	3,112,196	49,156,411	104	7,304	309,187
30	173,247	2,928,444	46,044,216	102	7,200	301,883
31	163,338	2,755,197	43,115,772	101	7,098	294,683
32	153,992	2,591,859	40,360,575	99	6,997	287,585
33	145,176	2,437,867	37,768,716	98	6,897	280,588
34	136,860	2,292,692	35,330,849	96	6,800	273,691
35	129,017	2,155,831	33,038,157	95	6,703	266,891
36	121,620	2,026,814	30,882,326	93	6,609	260,188
37	114,642	1,905,195	28,855,512	92	6,515	253,579
38	108,061	1,790,553	26,950,317	91	6,423	247,064
39	101,854	1,682,492	25,159,765	89	6,333	240,641
40	95,999	1,580,638	23,477,273	88	6,243	234,308
41	90,477	1,484,639	21,896,635	86	6,156	228,065
42	85,270	1,394,162	20,411,996	85	6,069	221,909
43	80,358	1,308,892	19,017,834	84	5,984	215,840
44	75,726	1,228,534	17,708,942	82	5,900	209,856
45	71,357	1,152,808	16,480,408	81	5,818	203,956
46	67,237	1,081,451	15,327,600	80	5,737	198,138
47	63,351	1,014,215	14,246,148	79	5,657	192,401

x	D_x	N_x	S_x	C_x	M_x	R_x
48	59,686	950,864	13,231,934	77	5,578	186,745
49	56,231	891,178	12,281,070	76	5,501	181,166
50	52,972	834,947	11,389,892	75	5,425	175,666
51	49,898	781,975	10,554,945	74	5,350	170,241
52	47,000	732,077	9,772,970	73	5,276	164,891
53	44,267	685,077	9,040,893	71	5,204	159,615
54	41,690	640,810	8,355,816	70	5,132	154,411
55	39,260	599,120	7,715,006	69	5,062	149,279
56	36,969	559,859	7,115,886	68	4,993	144,217
57	34,808	522,891	6,556,027	67	4,925	139,224
58	32,771	488,082	6,033,136	66	4,858	134,299
59	30,851	455,311	5,545,054	65	4,793	129,441
60	29,040	424,460	5,089,743	63	4,728	124,648
61	27,333	395,420	4,665,283	62	4,665	119,920
62	25,723	368,088	4,269,862	61	4,602	115,255
63	24,206	342,365	3,901,774	60	4,541	110,653
64	22,775	318,159	3,559,410	59	4,480	106,112
65	21,427	295,384	3,241,250	58	4,421	101,632
66	20,156	273,957	2,945,866	58	4,363	97,211
67	18,957	253,802	2,671,909	57	4,305	92,848
68	17,827	234,845	2,418,107	57	4,248	88,543
69	16,761	217,018	2,183,262	58	4,191	84,295
70	15,754	200,257	1,966,245	58	4,133	80,104
71	14,804	184,503	1,765,987	59	4,075	75,970
72	13,907	169,698	1,581,485	61	4,016	71,895
73	13,059	155,791	1,411,786	62	3,955	67,879
74	12,258	142,732	1,255,995	64	3,893	63,924
75	11,500	130,474	1,113,263	67	3,829	60,031
76	10,782	118,974	982,790	70	3,762	56,202

x	D_x	N_x	S_x	C_x	M_x	R_x
77	10,102	108,192	863,816	73	3,692	52,440
78	9,456	98,090	755,624	78	3,618	48,748
79	8,844	88,634	657,534	82	3,541	45,129
80	8,261	79,790	568,900	88	3,459	41,589
81	7,705	71,529	489,110	94	3,371	38,130
82	7,175	63,824	417,581	101	3,277	34,759
83	6,668	56,649	353,757	109	3,176	31,482
84	6,182	49,980	297,108	118	3,067	28,306
85	5,714	43,798	247,128	128	2,949	25,239
86	5,263	38,084	203,330	139	2,821	22,290
87	4,826	32,821	165,245	151	2,682	19,468
88	4,401	27,996	132,424	165	2,531	16,786
89	3,987	23,595	104,428	179	2,366	14,255
90	3,582	19,608	80,834	194	2,187	11,889
91	3,185	16,025	61,226	209	1,993	9,703
92	2,796	12,840	45,201	223	1,784	7,710
93	2,415	10,044	32,361	235	1,561	5,926
94	2,043	7,629	22,318	244	1,325	4,366
95	1,683	5,586	14,689	247	1,081	3,040
96	1,341	3,903	9,103	242	835	1,959
97	1,024	2,561	5,200	227	593	1,124
98	739	1,538	2,639	201	366	531
99	496	799	1,102	165	165	165
100	303	303	303	0	0	0

vii. Table of Monetary Functions $i = 7\%$

x	D_x	N_x	S_x	C_x	M_x	R_x
20	258,419	3,877,700	56,368,306	98	4,627	181,089
21	241,415	3,619,281	52,490,606	95	4,529	176,462
22	225,526	3,377,866	48,871,325	93	4,434	171,933
23	210,679	3,152,339	45,493,459	91	4,341	167,499
24	196,805	2,941,660	42,341,120	89	4,250	163,159
25	183,841	2,744,855	39,399,460	87	4,161	158,909
26	171,728	2,561,014	36,654,605	84	4,074	154,748
27	160,409	2,389,286	34,093,591	82	3,990	150,674
28	149,832	2,228,877	31,704,305	80	3,907	146,684
29	139,950	2,079,045	29,475,428	78	3,827	142,777
30	130,716	1,939,095	27,396,384	77	3,748	138,950
31	122,088	1,808,379	25,457,289	75	3,672	135,202
32	114,026	1,686,291	23,648,910	73	3,597	131,530
33	106,493	1,572,265	21,962,619	71	3,524	127,933
34	99,455	1,465,772	20,390,353	69	3,453	124,409
35	92,880	1,366,317	18,924,581	68	3,384	120,955
36	86,736	1,273,437	17,558,265	66	3,316	117,572
37	80,995	1,186,701	16,284,828	64	3,250	114,255
38	75,632	1,105,705	15,098,127	63	3,186	111,005
39	70,622	1,030,073	13,992,421	61	3,123	107,819
40	65,940	959,452	12,962,348	60	3,062	104,696
41	61,567	893,511	12,002,897	58	3,002	101,635
42	57,481	831,945	11,109,386	57	2,944	98,633
43	53,663	774,464	10,277,441	55	2,887	95,689
44	50,097	720,800	9,502,977	54	2,832	92,802
45	46,766	670,703	8,782,177	53	2,777	89,970
46	43,654	623,937	8,111,474	51	2,725	87,193
47	40,747	580,283	7,487,537	50	2,673	84,468

x	D_x	N_x	S_x	C_x	M_x	R_x
48	38,031	539,537	6,907,254	49	2,623	81,795
49	35,494	501,506	6,367,717	48	2,575	79,171
50	33,124	466,012	5,866,211	46	2,527	76,597
51	30,911	432,888	5,400,199	45	2,481	74,070
52	28,843	401,977	4,967,312	44	2,435	71,589
53	26,912	373,133	4,565,335	43	2,391	69,154
54	25,109	346,221	4,192,202	42	2,348	66,763
55	23,424	321,112	3,845,981	41	2,306	64,415
56	21,851	297,688	3,524,869	40	2,266	62,108
57	20,382	275,836	3,227,182	39	2,226	59,843
58	19,010	255,455	2,951,345	38	2,187	57,617
59	17,728	236,445	2,695,891	37	2,149	55,430
60	16,532	218,717	2,459,446	36	2,113	53,281
61	15,414	202,185	2,240,729	35	2,077	51,168
62	14,371	186,771	2,038,544	34	2,042	49,092
63	13,397	172,399	1,851,773	33	2,008	47,050
64	12,487	159,002	1,679,374	32	1,975	45,042
65	11,638	146,515	1,520,372	31	1,943	43,067
66	10,846	134,877	1,373,857	31	1,911	41,125
67	10,105	124,031	1,238,980	30	1,881	39,213
68	9,414	113,926	1,114,949	30	1,850	37,333
69	8,768	104,511	1,001,024	30	1,820	35,482
70	8,165	95,743	896,512	30	1,791	33,662
71	7,601	87,578	800,769	30	1,761	31,871
72	7,073	79,978	713,191	30	1,731	30,111
73	6,580	72,904	633,213	31	1,700	28,380
74	6,119	66,324	560,309	32	1,669	26,680
75	5,687	60,205	493,985	33	1,637	25,011
76	5,282	54,519	433,780	34	1,604	23,374

x	D_x	N_x	S_x	C_x	M_x	R_x
77	4,902	49,237	379,261	35	1,570	21,769
78	4,546	44,335	330,024	37	1,535	20,199
79	4,212	39,789	285,689	39	1,498	18,664
80	3,897	35,577	245,901	41	1,459	17,166
81	3,602	31,679	210,324	43	1,418	15,706
82	3,322	28,078	178,645	46	1,375	14,288
83	3,059	24,755	150,567	49	1,329	12,913
84	2,809	21,696	125,812	53	1,279	11,584
85	2,572	18,887	104,115	57	1,226	10,305
86	2,347	16,315	85,228	61	1,169	9,079
87	2,132	13,968	68,913	66	1,108	7,910
88	1,926	11,836	54,945	71	1,041	6,803
89	1,729	9,910	43,109	77	970	5,762
90	1,539	8,181	33,199	83	893	4,792
91	1,355	6,642	25,018	88	810	3,899
92	1,179	5,287	18,376	93	722	3,089
93	1,008	4,108	13,089	97	629	2,367
94	845	3,100	8,981	100	532	1,738
95	690	2,255	5,881	100	432	1,206
96	545	1,565	3,626	97	332	774
97	412	1,020	2,061	90	234	443
98	294	609	1,041	79	144	208
99	196	314	433	65	65	65
100	118	118	118	0	0	0

viii. Table of Monetary Functions $i = 8\%$

x	D_x	N_x	S_x	C_x	M_x	R_x
20	214,548	2,858,696	37,326,334	80	2,750	90,279
21	198,575	2,644,148	34,467,638	78	2,669	87,530
22	183,788	2,445,573	31,823,490	75	2,591	84,861
23	170,099	2,261,785	29,377,917	73	2,516	82,269
24	157,426	2,091,686	27,116,132	70	2,443	79,753
25	145,695	1,934,259	25,024,446	68	2,373	77,310
26	134,835	1,788,565	23,090,187	66	2,305	74,937
27	124,781	1,653,730	21,301,622	64	2,239	72,631
28	115,475	1,528,949	19,647,892	61	2,176	70,392
29	106,859	1,413,474	18,118,943	59	2,114	68,216
30	98,885	1,306,615	16,705,469	57	2,055	66,102
31	91,502	1,207,730	15,398,854	55	1,998	64,047
32	84,669	1,116,228	14,191,124	54	1,942	62,049
33	78,344	1,031,559	13,074,896	52	1,889	60,107
34	72,489	953,215	12,043,337	50	1,837	58,219
35	67,069	880,727	11,090,121	48	1,787	56,382
36	62,053	813,658	10,209,395	47	1,738	54,595
37	57,409	751,605	9,395,737	45	1,692	52,857
38	53,111	694,196	8,644,131	44	1,646	51,165
39	49,134	641,085	7,949,935	42	1,603	49,519
40	45,452	591,951	7,308,851	41	1,560	47,916
41	42,044	546,499	6,716,900	39	1,520	46,356
42	38,890	504,455	6,170,401	38	1,480	44,836
43	35,972	465,564	5,665,946	37	1,442	43,356
44	33,270	429,593	5,200,381	36	1,405	41,914
45	30,770	396,323	4,770,788	34	1,370	40,509
46	28,457	365,552	4,374,466	33	1,335	39,139
47	26,316	337,096	4,008,914	32	1,302	37,804

x	D_x	N_x	S_x	C_x	M_x	R_x
48	24,334	310,780	3,671,818	31	1,270	36,501
49	22,501	286,446	3,361,037	30	1,239	35,231
50	20,804	263,945	3,074,591	29	1,209	33,992
51	19,234	243,141	2,810,646	28	1,180	32,783
52	17,782	223,907	2,567,505	27	1,153	31,602
53	16,437	206,126	2,343,598	26	1,126	30,450
54	15,194	189,688	2,137,472	25	1,100	29,324
55	14,043	174,494	1,947,784	24	1,075	28,225
56	12,979	160,451	1,773,289	23	1,050	27,150
57	11,994	147,472	1,612,838	23	1,027	26,100
58	11,083	135,478	1,465,366	22	1,004	25,073
59	10,240	124,395	1,329,888	21	982	24,069
60	9,461	114,155	1,205,492	20	961	23,086
61	8,740	104,695	1,091,337	20	941	22,125
62	8,073	95,955	986,643	19	922	21,184
63	7,456	87,882	890,688	18	903	20,262
64	6,885	80,427	802,805	18	884	19,359
65	6,358	73,541	722,379	17	867	18,475
66	5,870	67,184	648,837	16	850	17,608
67	5,418	61,314	581,653	16	833	16,758
68	5,001	55,896	520,339	16	817	15,925
69	4,615	50,895	464,443	16	802	15,107
70	4,257	46,280	413,549	15	786	14,306
71	3,927	42,022	367,269	15	771	13,520
72	3,620	38,096	325,246	15	755	12,749
73	3,337	34,475	287,150	16	740	11,994
74	3,074	31,139	252,675	16	724	11,254
75	2,830	28,065	221,536	16	708	10,530
76	2,605	25,234	193,472	17	692	9,822

x	D_x	N_x	S_x	C_x	M_x	R_x
77	2,395	22,630	168,237	17	676	9,130
78	2,201	20,235	145,607	18	658	8,454
79	2,020	18,034	125,373	18	641	7,796
80	1,852	16,014	107,339	19	622	7,155
81	1,695	14,163	91,324	20	603	6,533
82	1,549	12,467	77,162	21	583	5,930
83	1,413	10,918	64,694	23	561	5,347
84	1,286	9,505	53,777	24	539	4,786
85	1,167	8,219	44,272	26	515	4,247
86	1,055	7,052	36,054	27	489	3,733
87	949	5,997	29,002	29	462	3,244
88	850	5,048	23,004	31	432	2,782
89	755	4,199	17,956	33	401	2,350
90	666	3,443	13,757	35	368	1,949
91	581	2,777	10,314	37	332	1,581
92	501	2,196	7,537	39	295	1,248
93	425	1,695	5,341	41	256	953
94	352	1,270	3,646	41	215	698
95	285	918	2,375	41	174	483
96	223	633	1,457	39	133	309
97	167	410	824	36	93	176
98	118	243	414	32	57	83
99	78	125	171	25	25	25
100	47	47	47	0	0	0

ix. Table of Monetary Functions $i = 9\%$

x	D_x	N_x	S_x	C_x	M_x	R_x
20	178,431	2,139,780	25,325,739	66	1,735	47,282
21	163,632	1,961,349	23,185,959	64	1,668	45,548
22	150,057	1,797,717	21,224,610	61	1,605	43,879
23	137,606	1,647,660	19,426,893	58	1,544	42,274
24	126,186	1,510,053	17,779,234	56	1,486	40,730
25	115,711	1,383,867	16,269,181	54	1,430	39,244
26	106,104	1,268,156	14,885,314	51	1,376	37,814
27	97,291	1,162,052	13,617,158	49	1,325	36,438
28	89,209	1,064,761	12,455,106	47	1,276	35,113
29	81,796	975,552	11,390,345	45	1,229	33,837
30	74,997	893,755	10,414,793	43	1,184	32,608
31	68,762	818,758	9,521,038	41	1,141	31,424
32	63,043	749,996	8,702,280	40	1,100	30,283
33	57,798	686,953	7,952,284	38	1,060	29,183
34	52,988	629,155	7,265,331	36	1,022	28,123
35	48,576	576,167	6,636,176	35	986	27,101
36	44,531	527,591	6,060,009	33	951	26,115
37	40,821	483,060	5,532,418	32	918	25,164
38	37,418	442,239	5,049,358	31	886	24,246
39	34,298	404,821	4,607,118	29	856	23,360
40	31,437	370,523	4,202,297	28	826	22,504
41	28,813	339,086	3,831,775	27	798	21,678
42	26,408	310,272	3,492,689	26	772	20,879
43	24,201	283,865	3,182,416	25	746	20,108
44	22,179	259,663	2,898,552	23	722	19,362
45	20,324	237,485	2,638,888	22	698	18,640
46	18,623	217,161	2,401,404	22	676	17,942
47	17,064	198,537	2,184,243	21	654	17,266

x	D_x	N_x	S_x	C_x	M_x	R_x
48	15,635	181,473	1,985,705	20	633	16,612
49	14,324	165,839	1,804,232	19	614	15,979
50	13,122	151,515	1,638,393	18	595	15,365
51	12,021	138,393	1,486,878	17	577	14,770
52	11,011	126,372	1,348,486	17	560	14,193
53	10,085	115,361	1,222,114	16	543	13,634
54	9,237	105,276	1,106,753	15	527	13,091
55	8,459	96,039	1,001,478	14	512	12,564
56	7,746	87,580	905,439	14	498	12,052
57	7,093	79,834	817,859	13	484	11,554
58	6,494	72,741	738,025	13	471	11,070
59	5,945	66,247	665,284	12	458	10,600
60	5,442	60,302	599,037	12	446	10,142
61	4,981	54,860	538,734	11	434	9,696
62	4,559	49,879	483,874	11	423	9,262
63	4,172	45,321	433,995	10	413	8,838
64	3,817	41,149	388,674	10	402	8,426
65	3,492	37,332	347,525	9	393	8,023
66	3,195	33,839	310,193	9	384	7,630
67	2,922	30,645	276,354	9	375	7,247
68	2,672	27,723	245,709	8	366	6,872
69	2,443	25,050	217,986	8	358	6,506
70	2,233	22,607	192,936	8	350	6,148
71	2,041	20,374	170,329	8	342	5,798
72	1,864	18,333	149,955	8	334	5,457
73	1,703	16,468	131,622	8	326	5,123
74	1,554	14,766	115,154	8	318	4,797
75	1,418	13,212	100,388	8	310	4,479
76	1,293	11,794	87,176	8	302	4,169

x	D_x	N_x	S_x	C_x	M_x	R_x
77	1,178	10,501	75,382	8	294	3,868
78	1,072	9,323	64,882	9	285	3,574
79	975	8,251	55,558	9	277	3,288
80	886	7,276	47,308	9	268	3,011
81	804	6,390	40,032	10	259	2,743
82	728	5,586	33,642	10	249	2,484
83	658	4,858	28,056	10	239	2,235
84	593	4,201	23,198	11	229	1,995
85	533	3,608	18,997	12	218	1,766
86	477	3,075	15,389	12	206	1,548
87	426	2,598	12,314	13	194	1,342
88	378	2,172	9,717	14	181	1,148
89	333	1,794	7,545	15	167	967
90	291	1,462	5,751	15	153	799
91	251	1,171	4,289	16	138	647
92	215	920	3,118	17	122	509
93	180	705	2,198	17	105	387
94	148	525	1,493	17	88	283
95	119	377	968	17	71	195
96	92	258	591	16	54	124
97	68	166	332	15	38	70
98	48	98	166	13	23	33
99	31	50	68	10	10	10
100	19	19	19	0	0	0

x. Table of Monetary Functions $i = 10\%$

x	D_x	N_x	S_x	C_x	M_x	R_x
20	148,644	1,622,338	17,552,813	55	1,152	26,079
21	135,076	1,473,695	15,930,475	52	1,097	24,927
22	122,744	1,338,619	14,456,780	49	1,045	23,831
23	111,536	1,215,875	13,118,161	47	995	22,786
24	101,350	1,104,338	11,902,287	44	949	21,790
25	92,092	1,002,988	10,797,949	42	904	20,841
26	83,678	910,897	9,794,960	40	862	19,937
27	76,030	827,219	8,884,064	38	822	19,075
28	69,081	751,189	8,056,845	36	784	18,253
29	62,764	682,108	7,305,656	34	748	17,469
30	57,024	619,343	6,623,548	33	714	16,721
31	51,808	562,319	6,004,205	31	681	16,008
32	47,067	510,511	5,441,886	29	650	15,327
33	42,759	463,444	4,931,374	28	621	14,676
34	38,844	420,685	4,467,930	26	593	14,055
35	35,287	381,841	4,047,246	25	567	13,462
36	32,054	346,554	3,665,405	24	542	12,895
37	29,116	314,500	3,318,851	23	518	12,353
38	26,447	285,384	3,004,350	21	496	11,835
39	24,021	258,938	2,718,966	20	474	11,339
40	21,817	234,917	2,460,028	19	454	10,865
41	19,814	213,100	2,225,111	18	435	10,410
42	17,995	193,286	2,012,011	17	417	9,976
43	16,342	175,291	1,818,725	16	399	9,559
44	14,840	158,949	1,643,435	16	383	9,160
45	13,475	144,109	1,484,485	15	367	8,777
46	12,235	130,635	1,340,376	14	353	8,409
47	11,109	118,399	1,209,741	13	339	8,057

x	D_x	N_x	S_x	C_x	M_x	R_x
48	10,086	107,290	1,091,342	13	325	7,718
49	9,156	97,205	984,052	12	313	7,393
50	8,312	88,048	886,847	11	301	7,080
51	7,545	79,736	798,799	11	289	6,779
52	6,848	72,191	719,062	10	279	6,490
53	6,216	65,343	646,871	10	269	6,211
54	5,641	59,128	581,528	9	259	5,943
55	5,119	53,487	522,400	9	250	5,684
56	4,645	48,368	468,914	8	241	5,434
57	4,214	43,723	420,546	8	233	5,193
58	3,823	39,508	376,823	7	225	4,960
59	3,469	35,685	337,315	7	218	4,735
60	3,146	32,217	301,630	7	211	4,518
61	2,854	29,070	269,413	6	204	4,307
62	2,588	26,217	240,343	6	198	4,103
63	2,347	23,629	214,126	6	192	3,905
64	2,128	21,282	190,497	5	186	3,714
65	1,929	19,155	169,215	5	181	3,527
66	1,749	17,226	150,060	5	176	3,347
67	1,585	15,477	132,834	5	171	3,171
68	1,436	13,892	117,357	4	166	3,000
69	1,301	12,456	103,465	4	162	2,834
70	1,178	11,155	91,008	4	158	2,672
71	1,067	9,977	79,853	4	153	2,514
72	966	8,910	69,876	4	149	2,361
73	874	7,944	60,966	4	145	2,212
74	791	7,070	53,023	4	141	2,066
75	715	6,279	45,953	4	137	1,925
76	646	5,564	39,674	4	133	1,788

x	D_x	N_x	S_x	C_x	M_x	R_x
77	583	4,918	34,110	4	129	1,655
78	526	4,335	29,192	4	125	1,526
79	474	3,809	24,857	4	121	1,400
80	427	3,335	21,047	4	117	1,280
81	383	2,909	17,712	5	112	1,163
82	344	2,525	14,803	5	108	1,051
83	308	2,181	12,278	5	103	943
84	275	1,873	10,097	5	98	840
85	245	1,597	8,224	5	93	741
86	218	1,352	6,627	6	88	648
87	192	1,135	5,275	6	82	560
88	169	942	4,140	6	77	478
89	148	773	3,198	6	70	401
90	128	626	2,425	7	64	331
91	109	498	1,799	7	57	267
92	93	389	1,301	7	50	209
93	77	296	912	7	43	159
94	63	219	616	7	36	115
95	50	156	397	7	29	79
96	38	106	241	7	22	50
97	28	68	135	6	15	28
98	20	40	67	5	9	13
99	13	20	28	4	4	4
100	7	7	7	0	0	0

xi. Table of Monetary Functions $i = 11\%$

x	D_x	N_x	S_x	C_x	M_x	R_x
20	124,034	1,243,552	12,393,542	45	796	15,143
21	111,697	1,119,518	11,149,990	43	751	14,346
22	100,585	1,007,821	10,030,472	40	709	13,595
23	90,577	907,235	9,022,652	38	668	12,887
24	81,564	816,658	8,115,416	35	631	12,218
25	73,445	735,095	7,298,758	33	595	11,588
26	66,133	661,649	6,563,664	31	562	10,992
27	59,548	595,516	5,902,014	29	531	10,430
28	53,618	535,967	5,306,498	28	501	9,900
29	48,276	482,350	4,770,531	26	473	9,399
30	43,466	434,073	4,288,181	25	447	8,926
31	39,134	390,607	3,854,108	23	423	8,478
32	35,233	351,473	3,463,501	22	400	8,056
33	31,720	316,240	3,112,028	20	378	7,656
34	28,556	284,520	2,795,788	19	357	7,278
35	25,707	255,964	2,511,268	18	338	6,921
36	23,141	230,257	2,255,303	17	320	6,582
37	20,831	207,116	2,025,046	16	303	6,262
38	18,751	186,285	1,817,930	15	287	5,959
39	16,878	167,534	1,631,644	14	272	5,672
40	15,191	150,657	1,464,110	13	258	5,399
41	13,672	135,466	1,313,453	12	245	5,141
42	12,305	121,794	1,177,987	12	232	4,896
43	11,074	109,489	1,056,193	11	221	4,664
44	9,965	98,415	946,704	10	210	4,443
45	8,967	88,450	848,289	10	199	4,233
46	8,069	79,483	759,839	9	190	4,034
47	7,260	71,414	680,356	9	180	3,844

x	D_x	N_x	S_x	C_x	M_x	R_x
48	6,532	64,153	608,942	8	172	3,664
49	5,877	57,621	544,789	8	164	3,492
50	5,287	51,745	487,167	7	156	3,328
51	4,756	46,458	435,423	7	149	3,172
52	4,278	41,702	388,965	6	142	3,023
53	3,847	37,425	347,263	6	136	2,881
54	3,460	33,577	309,838	6	130	2,745
55	3,112	30,117	276,261	5	125	2,615
56	2,798	27,005	246,144	5	119	2,490
57	2,516	24,207	219,139	5	114	2,371
58	2,262	21,691	194,932	4	110	2,256
59	2,034	19,429	173,241	4	105	2,147
60	1,828	17,395	153,813	4	101	2,041
61	1,643	15,567	136,417	4	98	1,940
62	1,477	13,924	120,850	3	94	1,842
63	1,327	12,448	106,926	3	91	1,748
64	1,192	11,121	94,478	3	87	1,658
65	1,071	9,929	83,357	3	85	1,570
66	962	8,857	73,429	3	82	1,486
67	864	7,895	64,571	2	79	1,404
68	776	7,031	56,676	2	77	1,325
69	697	6,255	49,645	2	74	1,248
70	625	5,558	43,390	2	72	1,174
71	561	4,933	37,832	2	70	1,102
72	504	4,371	32,899	2	68	1,032
73	452	3,868	28,528	2	66	965
74	405	3,416	24,660	2	63	899
75	363	3,012	21,244	2	61	836
76	325	2,649	18,232	2	59	774

x	D_x	N_x	S_x	C_x	M_x	R_x
77	290	2,324	15,583	2	57	715
78	260	2,034	13,259	2	55	658
79	232	1,774	11,225	2	53	602
80	207	1,542	9,451	2	51	549
81	184	1,336	7,908	2	49	498
82	164	1,151	6,573	2	47	448
83	145	987	5,421	2	45	401
84	129	842	4,434	2	43	356
85	114	713	3,592	2	40	314
86	100	600	2,878	3	38	274
87	88	500	2,279	3	35	236
88	76	412	1,779	3	33	201
89	66	336	1,367	3	30	168
90	57	270	1,031	3	27	138
91	48	213	761	3	24	111
92	40	165	547	3	21	87
93	33	125	382	3	18	66
94	27	92	257	3	15	48
95	21	65	165	3	12	33
96	16	44	99	3	9	21
97	12	28	55	2	6	12
98	8	16	27	2	4	5
99	5	8	11	2	2	2
100	3	3	3	0	0	0

xii. Table of Monetary Functions $i = 12\%$

x	D_x	N_x	S_x	C_x	M_x	R_x
20	103,667	962,239	8,893,947	37	569	9,228
21	92,522	858,573	7,931,708	35	531	8,659
22	82,574	766,051	7,073,135	33	496	8,128
23	73,694	683,476	6,307,085	30	464	7,632
24	65,768	609,782	5,623,608	28	433	7,168
25	58,693	544,014	5,013,826	26	405	6,735
26	52,378	485,321	4,469,812	25	378	6,330
27	46,742	432,943	3,984,491	23	354	5,952
28	41,711	386,201	3,551,548	21	331	5,598
29	37,220	344,491	3,165,347	20	309	5,267
30	33,212	307,270	2,820,856	19	290	4,958
31	29,635	274,058	2,513,586	17	271	4,668
32	26,443	244,423	2,239,528	16	254	4,397
33	23,594	217,980	1,995,105	15	237	4,144
34	21,051	194,386	1,777,126	14	222	3,906
35	18,781	173,336	1,582,739	13	208	3,684
36	16,756	154,554	1,409,404	12	195	3,476
37	14,948	137,799	1,254,849	11	183	3,280
38	13,335	122,850	1,117,051	11	172	3,097
39	11,896	109,515	994,200	10	161	2,925
40	10,612	97,619	884,685	9	151	2,764
41	9,465	87,007	787,066	9	142	2,613
42	8,443	77,542	700,059	8	134	2,471
43	7,530	69,099	622,517	7	126	2,337
44	6,716	61,569	553,418	7	118	2,211
45	5,989	54,853	491,849	6	111	2,093
46	5,341	48,863	436,997	6	105	1,982
47	4,763	43,522	388,133	6	99	1,877

x	D_x	N_x	S_x	C_x	M_x	R_x
48	4,247	38,759	344,611	5	93	1,778
49	3,787	34,512	305,852	5	88	1,685
50	3,376	30,725	271,340	5	83	1,597
51	3,010	27,349	240,615	4	79	1,514
52	2,683	24,339	213,266	4	74	1,435
53	2,392	21,656	188,927	4	71	1,361
54	2,132	19,264	167,271	3	67	1,290
55	1,900	17,132	148,007	3	63	1,223
56	1,693	15,232	130,876	3	60	1,160
57	1,509	13,538	115,644	3	57	1,100
58	1,345	12,029	102,106	3	55	1,042
59	1,198	10,685	90,076	2	52	988
60	1,067	9,487	79,392	2	50	935
61	951	8,420	69,905	2	48	886
62	847	7,469	61,485	2	45	838
63	754	6,622	54,016	2	44	793
64	672	5,868	47,394	2	42	749
65	598	5,196	41,526	2	40	708
66	532	4,598	36,330	1	39	667
67	474	4,066	31,732	1	37	629
68	422	3,592	27,666	1	36	592
69	375	3,170	24,073	1	34	556
70	334	2,795	20,903	1	33	522
71	297	2,461	18,108	1	32	488
72	264	2,164	15,647	1	31	456
73	235	1,900	13,482	1	30	425
74	208	1,666	11,582	1	29	395
75	185	1,457	9,916	1	28	366
76	164	1,272	8,458	1	27	339

x	D_x	N_x	S_x	C_x	M_x	R_x
77	146	1,108	7,186	1	26	312
78	129	963	6,078	1	25	286
79	114	834	5,115	1	24	261
80	101	719	4,282	1	23	238
81	89	618	3,562	1	22	215
82	79	529	2,944	1	21	193
83	69	451	2,415	1	20	172
84	61	382	1,964	1	19	153
85	53	321	1,582	1	18	134
86	46	268	1,261	1	16	117
87	40	222	993	1	15	100
88	35	182	771	1	14	85
89	30	147	589	1	13	71
90	25	118	442	1	12	58
91	21	92	324	1	10	47
92	18	71	232	1	9	36
93	14	53	161	1	8	27
94	12	39	108	1	6	20
95	9	27	69	1	5	13
96	7	18	41	1	4	8
97	5	12	23	1	3	5
98	3	7	11	1	2	2
99	2	3	5	1	1	1
100	1	1	1	0	0	0

xiii. Table of Monetary Functions $i = 13\%$

x	D_x	N_x	S_x	C_x	M_x	R_x
20	86,782	750,718	6,474,123	31	416	5,871
21	76,767	663,935	5,723,405	29	385	5,455
22	67,907	587,168	5,059,470	27	356	5,070
23	60,068	519,261	4,472,302	25	330	4,713
24	53,133	459,193	3,953,041	23	305	4,384
25	46,998	406,060	3,493,849	21	282	4,078
26	41,570	359,062	3,087,789	19	261	3,796
27	36,768	317,492	2,728,727	18	242	3,535
28	32,520	280,724	2,411,235	17	224	3,292
29	28,763	248,204	2,130,511	15	208	3,068
30	25,438	219,441	1,882,308	14	192	2,861
31	22,498	194,003	1,662,866	13	178	2,668
32	19,896	171,505	1,468,864	12	165	2,490
33	17,595	151,609	1,297,359	11	153	2,325
34	15,560	134,013	1,145,750	10	142	2,171
35	13,760	118,453	1,011,737	9	132	2,029
36	12,167	104,694	893,284	9	122	1,897
37	10,759	92,526	788,590	8	114	1,775
38	9,513	81,768	696,063	7	105	1,661
39	8,411	72,255	614,296	7	98	1,556
40	7,436	63,844	542,041	6	91	1,458
41	6,575	56,408	478,197	6	85	1,367
42	5,812	49,833	421,789	5	79	1,282
43	5,138	44,021	371,956	5	73	1,203
44	4,542	38,883	327,936	5	68	1,130
45	4,015	34,341	289,053	4	64	1,062
46	3,549	30,326	254,713	4	59	998
47	3,136	26,777	224,387	4	55	938

x	D_x	N_x	S_x	C_x	M_x	R_x
48	2,772	23,641	197,610	3	52	883
49	2,450	20,869	173,969	3	48	831
50	2,165	18,419	153,101	3	45	783
51	1,913	16,254	134,682	3	42	737
52	1,690	14,341	118,428	2	40	695
53	1,493	12,651	104,087	2	37	655
54	1,319	11,158	91,436	2	35	618
55	1,165	9,839	80,278	2	33	582
56	1,029	8,673	70,440	2	31	549
57	909	7,644	61,766	2	29	518
58	803	6,735	54,123	2	28	489
59	709	5,932	47,388	1	26	461
60	626	5,223	41,456	1	25	435
61	553	4,597	36,234	1	24	410
62	488	4,044	31,637	1	22	387
63	431	3,556	27,593	1	21	364
64	380	3,125	24,038	1	20	343
65	336	2,745	20,913	1	19	323
66	296	2,409	18,168	1	18	303
67	261	2,113	15,759	1	18	285
68	230	1,852	13,645	1	17	267
69	203	1,622	11,793	1	16	250
70	179	1,418	10,172	1	16	234
71	158	1,239	8,754	1	15	219
72	139	1,081	7,514	1	14	204
73	123	942	6,433	1	14	189
74	108	819	5,491	1	13	176
75	95	711	4,672	1	13	162
76	84	616	3,961	1	12	150

x	D_x	N_x	S_x	C_x	M_x	R_x
77	73	533	3,344	1	12	137
78	64	459	2,811	0	11	126
79	57	395	2,352	0	11	114
80	50	338	1,957	0	10	104
81	43	289	1,619	0	10	94
82	38	245	1,330	0	9	84
83	33	208	1,085	1	9	75
84	29	174	877	1	8	66
85	25	146	703	1	8	58
86	22	121	557	1	7	50
87	19	99	436	1	7	43
88	16	81	337	1	6	36
89	13	65	256	1	6	30
90	11	52	191	1	5	25
91	9	40	139	1	4	20
92	8	31	99	1	4	15
93	6	23	69	1	3	11
94	5	17	46	1	3	8
95	4	12	29	1	2	6
96	3	8	17	0	2	4
97	2	5	10	0	1	2
98	1	3	5	0	1	1
99	1	1	2	0	0	0
100	1	1	1	0	0	0

xiv. Table of Monetary Functions $i = 14\%$

x	D_x	N_x	S_x	C_x	M_x	R_x
20	72,762	589,959	4,772,272	26	310	3,876
21	63,800	517,197	4,182,313	24	285	3,565
22	55,941	453,397	3,665,116	22	261	3,281
23	49,050	397,456	3,211,718	20	239	3,020
24	43,006	348,406	2,814,263	18	219	2,781
25	37,707	305,400	2,465,856	17	201	2,561
26	33,059	267,693	2,160,457	15	184	2,360
27	28,984	234,634	1,892,763	14	169	2,176
28	25,411	205,650	1,658,129	13	155	2,007
29	22,277	180,239	1,452,479	12	142	1,852
30	19,530	157,962	1,272,239	11	131	1,709
31	17,121	138,433	1,114,277	10	120	1,579
32	15,008	121,312	975,845	9	110	1,459
33	13,156	106,304	854,533	8	101	1,349
34	11,532	93,148	748,229	8	93	1,248
35	10,108	81,615	655,081	7	85	1,155
36	8,860	71,507	573,466	6	78	1,069
37	7,766	62,647	501,959	6	72	991
38	6,806	54,881	439,312	5	66	919
39	5,965	48,075	384,431	5	61	853
40	5,228	42,110	336,356	4	56	792
41	4,581	36,882	294,246	4	52	736
42	4,015	32,301	257,364	4	48	684
43	3,518	28,286	225,063	3	44	636
44	3,082	24,769	196,777	3	40	593
45	2,701	21,686	172,008	3	37	552
46	2,366	18,985	150,322	3	34	515
47	2,073	16,619	131,336	2	32	480

x	D_x	N_x	S_x	C_x	M_x	R_x
48	1,816	14,546	114,717	2	29	448
49	1,591	12,730	100,171	2	27	419
50	1,393	11,139	87,440	2	25	392
51	1,220	9,746	76,301	2	23	366
52	1,069	8,525	66,555	2	22	343
53	936	7,457	58,030	1	20	321
54	820	6,520	50,573	1	19	301
55	718	5,701	44,053	1	18	282
56	628	4,983	38,352	1	16	265
57	550	4,354	33,369	1	15	248
58	482	3,804	29,015	1	14	233
59	422	3,322	25,211	1	13	219
60	369	2,901	21,888	1	13	205
61	323	2,532	18,988	1	12	193
62	283	2,209	16,456	1	11	181
63	247	1,926	14,247	1	11	170
64	216	1,679	12,321	1	10	159
65	189	1,463	10,642	0	9	149
66	166	1,273	9,179	0	9	140
67	145	1,108	7,906	0	9	131
68	127	963	6,798	0	8	122
69	111	837	5,835	0	8	114
70	97	726	4,998	0	7	106
71	85	629	4,273	0	7	99
72	74	545	3,643	0	7	92
73	64	471	3,099	0	6	85
74	56	406	2,628	0	6	79
75	49	350	2,222	0	6	73
76	43	301	1,871	0	6	67

x	D_x	N_x	S_x	C_x	M_x	R_x
77	37	258	1,570	0	5	61
78	32	221	1,312	0	5	56
79	28	189	1,091	0	5	51
80	24	160	902	0	5	46
81	21	136	742	0	4	41
82	18	115	606	0	4	37
83	16	96	491	0	4	33
84	14	80	395	0	4	29
85	12	67	315	0	3	25
86	10	55	248	0	3	22
87	9	45	193	0	3	19
88	7	36	148	0	3	16
89	6	29	112	0	2	13
90	5	23	83	0	2	11
91	4	18	60	0	2	8
92	3	13	43	0	2	6
93	3	10	29	0	1	5
94	2	7	19	0	1	3
95	2	5	12	0	1	2
96	1	3	7	0	1	1
97	1	2	4	0	0	1
98	1	1	2	0	0	0
99	0	1	1	0	0	0
100	0	0	0	0	0	0

xv. Table of Monetary Functions $i = 15\%$

x	D_x	N_x	S_x	C_x	M_x	R_x
20	61,100	466,633	3,557,237	22	235	2,639
21	53,109	405,532	3,090,605	20	214	2,404
22	46,162	352,423	2,685,072	18	194	2,190
23	40,123	306,261	2,332,649	16	176	1,996
24	34,874	266,138	2,026,388	15	160	1,820
25	30,310	231,264	1,760,250	13	146	1,660
26	26,344	200,953	1,528,987	12	132	1,515
27	22,895	174,610	1,328,033	11	120	1,382
28	19,898	151,714	1,153,424	10	109	1,262
29	17,293	131,816	1,001,709	9	99	1,153
30	15,028	114,523	869,893	8	90	1,054
31	13,060	99,495	755,370	7	82	963
32	11,349	86,435	655,875	7	75	881
33	9,862	75,087	569,439	6	68	807
34	8,569	65,225	494,353	6	62	739
35	7,446	56,655	429,128	5	56	677
36	6,470	49,209	372,473	5	51	621
37	5,621	42,739	323,263	4	47	570
38	4,884	37,118	280,524	4	42	523
39	4,243	32,234	243,406	3	39	481
40	3,686	27,991	211,172	3	35	442
41	3,202	24,305	183,181	3	32	407
42	2,782	21,102	158,876	3	29	375
43	2,416	18,320	137,774	2	27	346
44	2,099	15,904	119,454	2	24	319
45	1,823	13,805	103,550	2	22	294
46	1,583	11,982	89,744	2	20	272
47	1,375	10,399	77,762	2	19	252

x	D_x	N_x	S_x	C_x	M_x	R_x
48	1,194	9,024	67,364	1	17	233
49	1,037	7,829	58,340	1	16	216
50	900	6,792	50,511	1	14	200
51	782	5,892	43,718	1	13	186
52	679	5,110	37,826	1	12	173
53	589	4,432	32,716	1	11	161
54	512	3,842	28,284	1	10	149
55	444	3,331	24,442	1	9	139
56	385	2,887	21,111	1	9	130
57	334	2,501	18,225	1	8	121
58	290	2,167	15,723	1	8	113
59	252	1,877	13,556	0	7	105
60	219	1,625	11,680	0	7	98
61	190	1,406	10,055	0	6	92
62	164	1,217	8,649	0	6	86
63	143	1,052	7,432	0	5	80
64	124	910	6,380	0	5	75
65	107	786	5,470	0	5	70
66	93	679	4,684	0	4	65
67	81	586	4,005	0	4	61
68	70	505	3,420	0	4	56
69	61	435	2,915	0	4	53
70	52	375	2,480	0	4	49
71	45	322	2,105	0	3	45
72	39	277	1,783	0	3	42
73	34	237	1,506	0	3	39
74	29	203	1,269	0	3	36
75	25	174	1,066	0	3	33
76	22	148	892	0	3	30

x	D_x	N_x	S_x	C_x	M_x	R_x
77	19	126	744	0	2	27
78	16	107	618	0	2	25
79	14	91	510	0	2	23
80	12	77	420	0	2	20
81	10	64	343	0	2	18
82	9	54	278	0	2	16
83	8	45	224	0	2	14
84	7	37	179	0	2	13
85	6	31	142	0	2	11
86	5	25	111	0	1	9
87	4	20	86	0	1	8
88	3	16	66	0	1	7
89	3	13	49	0	1	6
90	2	10	37	0	1	5
91	2	8	26	0	1	4
92	2	6	19	0	1	3
93	1	4	13	0	1	2
94	1	3	8	0	0	1
95	1	2	5	0	0	1
96	1	1	3	0	0	1
97	0	1	2	0	0	0
98	0	0	1	0	0	0
99	0	0	0	0	0	0
100	0	0	0	0	0	0

c. Assurance Functions

i. Table of Assurance Functions $i = 1\%$

x	$\ddot{a}_x$	A_x	P_x		x	$\ddot{a}_x$	A_x	P_x
20	50.524	0.45386	0.00898		**61**	27.010	0.66037	0.02445
21	50.040	0.45818	0.00916		**62**	26.334	0.66616	0.02530
22	49.551	0.46254	0.00933		**63**	25.652	0.67199	0.02620
23	49.058	0.46693	0.00952		**64**	24.964	0.67786	0.02715
24	48.561	0.47135	0.00971		**65**	24.271	0.68377	0.02817
25	48.060	0.47581	0.00990		**66**	23.572	0.68971	0.02926
26	47.555	0.48031	0.01010		**67**	22.866	0.69569	0.03042
27	47.045	0.48484	0.01031		**68**	22.156	0.70169	0.03167
28	46.531	0.48941	0.01052		**69**	21.441	0.70771	0.03301
29	46.013	0.49401	0.01074		**70**	20.720	0.71375	0.03445
30	45.490	0.49865	0.01096		**71**	19.996	0.71979	0.03600
31	44.963	0.50333	0.01119		**72**	19.267	0.72582	0.03767
32	44.432	0.50804	0.01143		**73**	18.536	0.73184	0.03948
33	43.897	0.51278	0.01168		**74**	17.801	0.73784	0.04145
34	43.356	0.51757	0.01194		**75**	17.064	0.74379	0.04359
35	42.812	0.52239	0.01220		**76**	16.325	0.74968	0.04592
36	42.263	0.52724	0.01248		**77**	15.586	0.75550	0.04847
37	41.710	0.53213	0.01276		**78**	14.846	0.76121	0.05127
38	41.152	0.53706	0.01305		**79**	14.107	0.76680	0.05436
39	40.589	0.54202	0.01335		**80**	13.370	0.77222	0.05776
40	40.022	0.54702	0.01367		**81**	12.636	0.77744	0.06153
41	39.451	0.55206	0.01399		**82**	11.906	0.78240	0.06571
42	38.875	0.55713	0.01433		**83**	11.182	0.78705	0.07039
43	38.294	0.56224	0.01468		**84**	10.465	0.79131	0.07561
44	37.709	0.56739	0.01505		**85**	9.757	0.79508	0.08149
45	37.118	0.57257	0.01543		**86**	9.059	0.79824	0.08811
46	36.524	0.57778	0.01582		**87**	8.375	0.80064	0.09560

x	$\ddot{a}_x$	A_x	P_x		x	$\ddot{a}_x$	A_x	P_x
47	35.924	0.58304	0.01623		**88**	7.705	0.80206	0.10410
48	35.320	0.58832	0.01666		**89**	7.052	0.80223	0.11376
49	34.711	0.59365	0.01710		**90**	6.418	0.80076	0.12477
50	34.097	0.59901	0.01757		**91**	5.805	0.79712	0.13730
51	33.478	0.60441	0.01805		**92**	5.216	0.79052	0.15155
52	32.854	0.60984	0.01856		**93**	4.652	0.77980	0.16763
53	32.225	0.61531	0.01909		**94**	4.113	0.76313	0.18553
54	31.592	0.62082	0.01965		**95**	3.600	0.73756	0.20488
55	30.953	0.62636	0.02024		**96**	3.109	0.69802	0.22452
56	30.309	0.63193	0.02085		**97**	2.633	0.63532	0.24128
57	29.660	0.63755	0.02150		**98**	2.156	0.53163	0.24658
58	29.005	0.64320	0.02218		**99**	1.641	0.34924	0.21284
59	28.345	0.64888	0.02289		**100**	1.000	0.00000	0.00000
60	27.680	0.65461	0.02365					

ii. Table of Assurance Functions $i = 2\%$

x	$\ddot{a}_x$	A_x	P_x		x	$\ddot{a}_x$	A_x	P_x
20	37.906	0.23608	0.00623		**61**	23.359	0.49328	0.02112
21	37.659	0.24050	0.00639		**62**	22.862	0.50194	0.02196
22	37.408	0.24499	0.00655		**63**	22.356	0.51074	0.02285
23	37.153	0.24956	0.00672		**64**	21.840	0.51969	0.02379
24	36.893	0.25420	0.00689		**65**	21.316	0.52878	0.02481
25	36.629	0.25893	0.00707		**66**	20.782	0.53803	0.02589
26	36.359	0.26374	0.00725		**67**	20.239	0.54742	0.02705
27	36.086	0.26863	0.00744		**68**	19.687	0.55695	0.02829
28	35.807	0.27360	0.00764		**69**	19.126	0.56661	0.02963
29	35.524	0.27866	0.00784		**70**	18.556	0.57640	0.03106
30	35.235	0.28380	0.00805		**71**	17.977	0.58631	0.03261
31	34.942	0.28903	0.00827		**72**	17.391	0.59633	0.03429
32	34.643	0.29435	0.00850		**73**	16.796	0.60644	0.03611
33	34.340	0.29976	0.00873		**74**	16.194	0.61663	0.03808
34	34.031	0.30526	0.00897		**75**	15.584	0.62689	0.04023
35	33.717	0.31085	0.00922		**76**	14.968	0.63719	0.04257
36	33.397	0.31653	0.00948		**77**	14.346	0.64751	0.04513
37	33.072	0.32231	0.00975		**78**	13.719	0.65782	0.04795
38	32.741	0.32819	0.01002		**79**	13.087	0.66809	0.05105
39	32.405	0.33416	0.01031		**80**	12.452	0.67828	0.05447
40	32.062	0.34023	0.01061		**81**	11.814	0.68834	0.05827
41	31.714	0.34640	0.01092		**82**	11.174	0.69820	0.06248
42	31.361	0.35267	0.01125		**83**	10.535	0.70781	0.06719
43	31.000	0.35905	0.01158		**84**	9.897	0.71707	0.07245
44	30.634	0.36553	0.01193		**85**	9.262	0.72587	0.07837
45	30.262	0.37211	0.01230		**86**	8.632	0.73407	0.08504
46	29.883	0.37881	0.01268		**87**	8.009	0.74151	0.09258
47	29.498	0.38561	0.01307		**88**	7.395	0.74796	0.10114

x	$\ddot{a}_x$	A_x	P_x		x	$\ddot{a}_x$	A_x	P_x
48	29.106	0.39252	0.01349		**89**	6.793	0.75312	0.11087
49	28.708	0.39955	0.01392		**90**	6.204	0.75658	0.12194
50	28.303	0.40669	0.01437		**91**	5.632	0.75781	0.13456
51	27.890	0.41394	0.01484		**92**	5.078	0.75600	0.14889
52	27.471	0.42132	0.01534		**93**	4.543	0.74997	0.16506
53	27.045	0.42881	0.01586		**94**	4.031	0.73790	0.18307
54	26.611	0.43642	0.01640		**95**	3.539	0.71683	0.20255
55	26.170	0.44416	0.01697		**96**	3.066	0.68171	0.22233
56	25.722	0.45202	0.01757		**97**	2.605	0.62339	0.23928
57	25.265	0.46001	0.01821		**98**	2.140	0.52403	0.24484
58	24.801	0.46813	0.01888		**99**	1.635	0.34581	0.21156
59	24.329	0.47638	0.01958		**100**	1.000	0.00000	0.00000
60	23.848	0.48476	0.02033					

iii. Table of Assurance Functions $i = 3\%$

x	$\ddot{a}_x$	A_x	P_x		x	$\ddot{a}_x$	A_x	P_x
20	29.646	0.12715	0.00429		**61**	20.423	0.37218	0.01822
21	29.517	0.13061	0.00442		**62**	20.055	0.38185	0.01904
22	29.385	0.13416	0.00457		**63**	19.676	0.39177	0.01991
23	29.250	0.13781	0.00471		**64**	19.287	0.40194	0.02084
24	29.111	0.14154	0.00486		**65**	18.888	0.41238	0.02183
25	28.968	0.14538	0.00502		**66**	18.478	0.42309	0.02290
26	28.822	0.14931	0.00518		**67**	18.057	0.43407	0.02404
27	28.671	0.15334	0.00535		**68**	17.625	0.44532	0.02527
28	28.517	0.15748	0.00552		**69**	17.182	0.45683	0.02659
29	28.359	0.16172	0.00570		**70**	16.729	0.46860	0.02801
30	28.197	0.16608	0.00589		**71**	16.264	0.48062	0.02955
31	28.030	0.17054	0.00608		**72**	15.789	0.49289	0.03122
32	27.859	0.17511	0.00629		**73**	15.303	0.50540	0.03303
33	27.684	0.17981	0.00649		**74**	14.807	0.51812	0.03499
34	27.504	0.18462	0.00671		**75**	14.301	0.53106	0.03713
35	27.320	0.18955	0.00694		**76**	13.785	0.54418	0.03948
36	27.130	0.19461	0.00717		**77**	13.260	0.55746	0.04204
37	26.936	0.19980	0.00742		**78**	12.726	0.57088	0.04486
38	26.737	0.20512	0.00767		**79**	12.183	0.58439	0.04797
39	26.533	0.21057	0.00794		**80**	11.634	0.59795	0.05140
40	26.323	0.21616	0.00821		**81**	11.077	0.61152	0.05520
41	26.108	0.22189	0.00850		**82**	10.515	0.62502	0.05944
42	25.888	0.22776	0.00880		**83**	9.949	0.63838	0.06416
43	25.661	0.23379	0.00911		**84**	9.380	0.65150	0.06945
44	25.429	0.23996	0.00944		**85**	8.810	0.66426	0.07540
45	25.191	0.24629	0.00978		**86**	8.240	0.67651	0.08211
46	24.947	0.25278	0.01013		**87**	7.672	0.68806	0.08969
47	24.697	0.25943	0.01050		**88**	7.108	0.69868	0.09829

x	$\ddot{a}_x$	A_x	P_x		x	$\ddot{a}_x$	A_x	P_x
48	24.440	0.26624	0.01089		**89**	6.552	0.70805	0.10807
49	24.176	0.27323	0.01130		**90**	6.004	0.71575	0.11921
50	23.906	0.28040	0.01173		**91**	5.468	0.72122	0.13189
51	23.628	0.28774	0.01218		**92**	4.946	0.72363	0.14630
52	23.344	0.29527	0.01265		**93**	4.440	0.72181	0.16256
53	23.052	0.30299	0.01314		**94**	3.952	0.71392	0.18066
54	22.752	0.31090	0.01366		**95**	3.481	0.69700	0.20025
55	22.445	0.31901	0.01421		**96**	3.025	0.66602	0.22017
56	22.129	0.32733	0.01479		**97**	2.578	0.61184	0.23730
57	21.806	0.33586	0.01540		**98**	2.125	0.51662	0.24312
58	21.473	0.34460	0.01605		**99**	1.628	0.34246	0.21030
59	21.133	0.35356	0.01673		**100**	1.000	0.00000	0.00000
60	20.783	0.36276	0.01745					

iv. Table of Assurance Functions $i = 4\%$

x	$\ddot{a}_x$	A_x	P_x		x	$\ddot{a}_x$	A_x	P_x
20	24.029	0.07150	0.00298		**61**	18.039	0.28379	0.01573
21	23.960	0.07399	0.00309		**62**	17.764	0.29343	0.01652
22	23.889	0.07656	0.00320		**63**	17.479	0.30341	0.01736
23	23.815	0.07921	0.00333		**64**	17.183	0.31373	0.01826
24	23.739	0.08196	0.00345		**65**	16.877	0.32442	0.01922
25	23.660	0.08479	0.00358		**66**	16.560	0.33548	0.02026
26	23.578	0.08772	0.00372		**67**	16.231	0.34692	0.02137
27	23.493	0.09075	0.00386		**68**	15.891	0.35874	0.02257
28	23.406	0.09389	0.00401		**69**	15.540	0.37095	0.02387
29	23.315	0.09712	0.00417		**70**	15.177	0.38355	0.02527
30	23.222	0.10047	0.00433		**71**	14.802	0.39653	0.02679
31	23.125	0.10393	0.00449		**72**	14.415	0.40989	0.02843
32	23.025	0.10750	0.00467		**73**	14.016	0.42362	0.03022
33	22.922	0.11119	0.00485		**74**	13.606	0.43773	0.03217
34	22.815	0.11501	0.00504		**75**	13.183	0.45219	0.03430
35	22.705	0.11895	0.00524		**76**	12.749	0.46699	0.03663
36	22.591	0.12302	0.00545		**77**	12.304	0.48211	0.03918
37	22.473	0.12723	0.00566		**78**	11.847	0.49752	0.04199
38	22.351	0.13158	0.00589		**79**	11.380	0.51318	0.04510
39	22.224	0.13608	0.00612		**80**	10.903	0.52907	0.04853
40	22.094	0.14073	0.00637		**81**	10.416	0.54511	0.05233
41	21.959	0.14553	0.00663		**82**	9.921	0.56125	0.05657
42	21.819	0.15049	0.00690		**83**	9.418	0.57739	0.06131
43	21.675	0.15561	0.00718		**84**	8.909	0.59345	0.06661
44	21.526	0.16091	0.00748		**85**	8.395	0.60929	0.07258
45	21.371	0.16639	0.00779		**86**	7.878	0.62476	0.07930
46	21.212	0.17204	0.00811		**87**	7.359	0.63965	0.08692
47	21.047	0.17789	0.00845		**88**	6.841	0.65372	0.09555

x	$\ddot{a}_x$	A_x	P_x		x	$\ddot{a}_x$	A_x	P_x
48	20.876	0.18393	0.00881		**89**	6.326	0.66663	0.10538
49	20.700	0.19018	0.00919		**90**	5.816	0.67796	0.11656
50	20.517	0.19663	0.00958		**91**	5.314	0.68711	0.12930
51	20.328	0.20330	0.01000		**92**	4.822	0.69326	0.14377
52	20.133	0.21020	0.01044		**93**	4.342	0.69521	0.16011
53	19.931	0.21733	0.01090		**94**	3.876	0.69112	0.17830
54	19.722	0.22469	0.01139		**95**	3.424	0.67802	0.19800
55	19.505	0.23231	0.01191		**96**	2.985	0.65091	0.21805
56	19.282	0.24019	0.01246		**97**	2.552	0.60064	0.23535
57	19.050	0.24833	0.01304		**98**	2.110	0.50940	0.24142
58	18.810	0.25675	0.01365		**99**	1.622	0.33916	0.20905
59	18.562	0.26546	0.01430		**100**	1.000	0.00000	0.00000
60	18.305	0.27447	0.01499					

v. Table of Assurance Functions $i = 5\%$

x	$\ddot{a}_x$	A_x	P_x		x	$\ddot{a}_x$	A_x	P_x
20	20.069	0.04237	0.00211		**61**	16.084	0.21880	0.01360
21	20.030	0.04410	0.00220		**62**	15.877	0.22787	0.01435
22	19.990	0.04590	0.00230		**63**	15.661	0.23734	0.01515
23	19.949	0.04778	0.00239		**64**	15.434	0.24721	0.01602
24	19.905	0.04973	0.00250		**65**	15.198	0.25753	0.01694
25	19.860	0.05175	0.00261		**66**	14.951	0.26829	0.01794
26	19.813	0.05387	0.00272		**67**	14.693	0.27953	0.01902
27	19.764	0.05606	0.00284		**68**	14.424	0.29124	0.02019
28	19.713	0.05835	0.00296		**69**	14.143	0.30343	0.02145
29	19.660	0.06073	0.00309		**70**	13.851	0.31611	0.02282
30	19.605	0.06320	0.00322		**71**	13.546	0.32929	0.02431
31	19.547	0.06577	0.00336		**72**	13.230	0.34297	0.02592
32	19.488	0.06845	0.00351		**73**	12.901	0.35715	0.02768
33	19.425	0.07124	0.00367		**74**	12.559	0.37184	0.02961
34	19.360	0.07414	0.00383		**75**	12.205	0.38702	0.03171
35	19.293	0.07716	0.00400		**76**	11.838	0.40268	0.03401
36	19.222	0.08030	0.00418		**77**	11.459	0.41882	0.03655
37	19.149	0.08357	0.00436		**78**	11.067	0.43541	0.03934
38	19.073	0.08697	0.00456		**79**	10.664	0.45242	0.04243
39	18.993	0.09051	0.00477		**80**	10.248	0.46981	0.04584
40	18.910	0.09420	0.00498		**81**	9.821	0.48753	0.04964
41	18.824	0.09803	0.00521		**82**	9.383	0.50552	0.05388
42	18.734	0.10203	0.00545		**83**	8.935	0.52369	0.05861
43	18.641	0.10618	0.00570		**84**	8.479	0.54195	0.06392
44	18.543	0.11051	0.00596		**85**	8.015	0.56015	0.06989
45	18.442	0.11501	0.00624		**86**	7.545	0.57815	0.07663
46	18.336	0.11970	0.00653		**87**	7.070	0.59573	0.08426
47	18.226	0.12458	0.00684		**88**	6.593	0.61263	0.09292

x	$\ddot{a}_x$	A_x	P_x		x	$\ddot{a}_x$	A_x	P_x
48	18.111	0.12967	0.00716		**89**	6.115	0.62851	0.10278
49	17.991	0.13496	0.00750		**90**	5.640	0.64293	0.11400
50	17.866	0.14048	0.00786		**91**	5.168	0.65528	0.12679
51	17.736	0.14622	0.00824		**92**	4.704	0.66473	0.14132
52	17.601	0.15221	0.00865		**93**	4.248	0.67006	0.15772
53	17.459	0.15844	0.00907		**94**	3.804	0.66942	0.17599
54	17.312	0.16493	0.00953		**95**	3.370	0.65986	0.19578
55	17.158	0.17170	0.01001		**96**	2.947	0.63635	0.21595
56	16.997	0.17876	0.01052		**97**	2.527	0.58979	0.23342
57	16.830	0.18611	0.01106		**98**	2.095	0.50236	0.23974
58	16.655	0.19378	0.01163		**99**	1.616	0.33593	0.20782
59	16.473	0.20177	0.01225		**100**	1.000	0.00000	0.00000
60	16.283	0.21011	0.01290					

vi. Table of Assurance Functions $i = 6\%$

x	$\ddot{a}_x$	A_x	P_x		x	$\ddot{a}_x$	A_x	P_x
20	17.179	0.02667	0.00155		**61**	14.467	0.17066	0.01180
21	17.157	0.02787	0.00162		**62**	14.310	0.17891	0.01250
22	17.134	0.02913	0.00170		**63**	14.144	0.18759	0.01326
23	17.109	0.03045	0.00178		**64**	13.970	0.19673	0.01408
24	17.084	0.03183	0.00186		**65**	13.786	0.20634	0.01497
25	17.057	0.03328	0.00195		**66**	13.592	0.21646	0.01593
26	17.029	0.03479	0.00204		**67**	13.388	0.22711	0.01696
27	17.000	0.03637	0.00214		**68**	13.174	0.23830	0.01809
28	16.969	0.03802	0.00224		**69**	12.948	0.25004	0.01931
29	16.937	0.03975	0.00235		**70**	12.711	0.26236	0.02064
30	16.903	0.04156	0.00246		**71**	12.463	0.27527	0.02209
31	16.868	0.04345	0.00258		**72**	12.202	0.28877	0.02367
32	16.831	0.04544	0.00270		**73**	11.929	0.30288	0.02539
33	16.793	0.04751	0.00283		**74**	11.644	0.31760	0.02728
34	16.752	0.04968	0.00297		**75**	11.346	0.33295	0.02935
35	16.710	0.05196	0.00311		**76**	11.035	0.34891	0.03162
36	16.665	0.05434	0.00326		**77**	10.710	0.36548	0.03412
37	16.619	0.05683	0.00342		**78**	10.373	0.38265	0.03689
38	16.570	0.05944	0.00359		**79**	10.022	0.40039	0.03995
39	16.519	0.06217	0.00376		**80**	9.659	0.41868	0.04335
40	16.465	0.06504	0.00395		**81**	9.283	0.43747	0.04713
41	16.409	0.06803	0.00415		**82**	8.895	0.45670	0.05134
42	16.350	0.07118	0.00435		**83**	8.495	0.47629	0.05607
43	16.288	0.07447	0.00457		**84**	8.085	0.49615	0.06137
44	16.223	0.07792	0.00480		**85**	7.665	0.51614	0.06734
45	16.156	0.08153	0.00505		**86**	7.237	0.53610	0.07408
46	16.084	0.08532	0.00530		**87**	6.801	0.55581	0.08172
47	16.009	0.08929	0.00558		**88**	6.361	0.57502	0.09040

x	$\ddot{a}_x$	A_x	P_x		x	$\ddot{a}_x$	A_x	P_x
48	15.931	0.09346	0.00587		**89**	5.918	0.59338	0.10027
49	15.849	0.09783	0.00617		**90**	5.473	0.61043	0.11153
50	15.762	0.10241	0.00650		**91**	5.031	0.62556	0.12435
51	15.671	0.10721	0.00684		**92**	4.592	0.63791	0.13892
52	15.576	0.11226	0.00721		**93**	4.159	0.64626	0.15538
53	15.476	0.11755	0.00760		**94**	3.734	0.64876	0.17372
54	15.371	0.12310	0.00801		**95**	3.318	0.64245	0.19361
55	15.260	0.12894	0.00845		**96**	2.909	0.62232	0.21389
56	15.144	0.13506	0.00892		**97**	2.502	0.57927	0.23152
57	15.022	0.14149	0.00942		**98**	2.081	0.49550	0.23808
58	14.894	0.14825	0.00995		**99**	1.611	0.33276	0.20661
59	14.759	0.15535	0.01053		**100**	1.000	0.00000	0.00000
60	14.617	0.16281	0.01114					

vii. Table of Assurance Functions $i = 7\%$

x	$\ddot{a}_x$	A_x	P_x		x	$\ddot{a}_x$	A_x	P_x
20	15.005	0.01791	0.00119		**61**	13.117	0.13472	0.01027
21	14.992	0.01876	0.00125		**62**	12.996	0.14208	0.01093
22	14.978	0.01966	0.00131		**63**	12.869	0.14987	0.01165
23	14.963	0.02060	0.00138		**64**	12.733	0.15814	0.01242
24	14.947	0.02159	0.00144		**65**	12.589	0.16691	0.01326
25	14.931	0.02263	0.00152		**66**	12.436	0.17622	0.01417
26	14.913	0.02372	0.00159		**67**	12.274	0.18609	0.01516
27	14.895	0.02487	0.00167		**68**	12.102	0.19655	0.01624
28	14.876	0.02608	0.00175		**69**	11.919	0.20761	0.01742
29	14.856	0.02734	0.00184		**70**	11.726	0.21930	0.01870
30	14.834	0.02868	0.00193		**71**	11.522	0.23165	0.02010
31	14.812	0.03008	0.00203		**72**	11.307	0.24466	0.02164
32	14.789	0.03155	0.00213		**73**	11.079	0.25837	0.02332
33	14.764	0.03309	0.00224		**74**	10.840	0.27278	0.02516
34	14.738	0.03472	0.00236		**75**	10.587	0.28791	0.02719
35	14.711	0.03643	0.00248		**76**	10.322	0.30377	0.02943
36	14.682	0.03823	0.00260		**77**	10.044	0.32036	0.03190
37	14.651	0.04013	0.00274		**78**	9.752	0.33768	0.03463
38	14.619	0.04212	0.00288		**79**	9.447	0.35571	0.03765
39	14.586	0.04422	0.00303		**80**	9.128	0.37444	0.04102
40	14.550	0.04643	0.00319		**81**	8.796	0.39383	0.04477
41	14.513	0.04876	0.00336		**82**	8.451	0.41382	0.04897
42	14.473	0.05121	0.00354		**83**	8.093	0.43436	0.05367
43	14.432	0.05380	0.00373		**84**	7.723	0.45533	0.05895
44	14.388	0.05652	0.00393		**85**	7.342	0.47663	0.06491
45	14.342	0.05939	0.00414		**86**	6.951	0.49808	0.07165
46	14.293	0.06242	0.00437		**87**	6.552	0.51948	0.07929
47	14.241	0.06561	0.00461		**88**	6.145	0.54056	0.08797

x	$\ddot{a}_x$	A_x	P_x		x	$\ddot{a}_x$	A_x	P_x
48	14.187	0.06898	0.00486		**89**	5.732	0.56096	0.09786
49	14.129	0.07253	0.00513		**90**	5.317	0.58024	0.10913
50	14.069	0.07629	0.00542		**91**	4.900	0.59776	0.12198
51	14.004	0.08025	0.00573		**92**	4.485	0.61267	0.13659
52	13.936	0.08443	0.00606		**93**	4.074	0.62373	0.15310
53	13.865	0.08885	0.00641		**94**	3.668	0.62908	0.17150
54	13.789	0.09352	0.00678		**95**	3.268	0.62577	0.19147
55	13.708	0.09846	0.00718		**96**	2.874	0.60879	0.21186
56	13.623	0.10368	0.00761		**97**	2.478	0.56907	0.22964
57	13.533	0.10920	0.00807		**98**	2.067	0.48880	0.23644
58	13.438	0.11505	0.00856		**99**	1.605	0.32965	0.20540
59	13.337	0.12123	0.00909		**100**	1.000	0.00000	0.00000
60	13.230	0.12779	0.00966					

viii. Table of Assurance Functions $i = 8\%$

x	$\ddot{a}_x$	A_x	P_x		x	$\ddot{a}_x$	A_x	P_x
20	13.324	0.01282	0.00096		**61**	11.979	0.10769	0.00899
21	13.316	0.01344	0.00101		**62**	11.887	0.11416	0.00960
22	13.306	0.01410	0.00106		**63**	11.787	0.12107	0.01027
23	13.297	0.01479	0.00111		**64**	11.681	0.12845	0.01100
24	13.287	0.01552	0.00117		**65**	11.567	0.13635	0.01179
25	13.276	0.01629	0.00123		**66**	11.446	0.14479	0.01265
26	13.265	0.01710	0.00129		**67**	11.316	0.15381	0.01359
27	13.253	0.01795	0.00135		**68**	11.177	0.16344	0.01462
28	13.241	0.01884	0.00142		**69**	11.029	0.17370	0.01575
29	13.227	0.01979	0.00150		**70**	10.870	0.18463	0.01698
30	13.214	0.02078	0.00157		**71**	10.702	0.19625	0.01834
31	13.199	0.02183	0.00165		**72**	10.523	0.20860	0.01982
32	13.183	0.02294	0.00174		**73**	10.332	0.22170	0.02146
33	13.167	0.02411	0.00183		**74**	10.130	0.23557	0.02325
34	13.150	0.02534	0.00193		**75**	9.915	0.25024	0.02524
35	13.132	0.02664	0.00203		**76**	9.688	0.26573	0.02743
36	13.112	0.02801	0.00214		**77**	9.448	0.28205	0.02985
37	13.092	0.02946	0.00225		**78**	9.195	0.29921	0.03254
38	13.071	0.03100	0.00237		**79**	8.929	0.31721	0.03553
39	13.048	0.03262	0.00250		**80**	8.648	0.33604	0.03886
40	13.024	0.03433	0.00264		**81**	8.354	0.35567	0.04258
41	12.998	0.03614	0.00278		**82**	8.046	0.37607	0.04674
42	12.971	0.03806	0.00293		**83**	7.725	0.39716	0.05141
43	12.943	0.04009	0.00310		**84**	7.391	0.41888	0.05667
44	12.912	0.04224	0.00327		**85**	7.045	0.44109	0.06261
45	12.880	0.04451	0.00346		**86**	6.687	0.46365	0.06933
46	12.846	0.04693	0.00365		**87**	6.319	0.48634	0.07696
47	12.810	0.04948	0.00386		**88**	5.942	0.50892	0.08564

x	$\ddot{a}_x$	A_x	P_x		x	$\ddot{a}_x$	A_x	P_x
48	12.771	0.05220	0.00409		**89**	5.558	0.53101	0.09553
49	12.731	0.05507	0.00433		**90**	5.169	0.55216	0.10682
50	12.687	0.05813	0.00458		**91**	4.777	0.57174	0.11968
51	12.641	0.06137	0.00485		**92**	4.384	0.58889	0.13432
52	12.592	0.06482	0.00515		**93**	3.993	0.60237	0.15087
53	12.540	0.06848	0.00546		**94**	3.604	0.61031	0.16933
54	12.485	0.07237	0.00580		**95**	3.220	0.60976	0.18936
55	12.425	0.07651	0.00616		**96**	2.839	0.59573	0.20986
56	12.363	0.08092	0.00655		**97**	2.455	0.55917	0.22779
57	12.296	0.08562	0.00696		**98**	2.054	0.48226	0.23482
58	12.224	0.09062	0.00741		**99**	1.599	0.32660	0.20421
59	12.148	0.09594	0.00790		**100**	1.000	0.00000	0.00000
60	12.066	0.10163	0.00842					

ix. Table of Assurance Functions $i = 9\%$

x	$\ddot{a}_x$	A_x	P_x		x	$\ddot{a}_x$	A_x	P_x
20	11.992	0.00972	0.00081		**61**	11.014	0.08718	0.00792
21	11.986	0.01020	0.00085		**62**	10.942	0.09283	0.00848
22	11.980	0.01070	0.00089		**63**	10.864	0.09891	0.00910
23	11.974	0.01122	0.00094		**64**	10.780	0.10544	0.00978
24	11.967	0.01177	0.00098		**65**	10.690	0.11249	0.01052
25	11.960	0.01236	0.00103		**66**	10.592	0.12007	0.01134
26	11.952	0.01297	0.00109		**67**	10.487	0.12824	0.01223
27	11.944	0.01362	0.00114		**68**	10.374	0.13702	0.01321
28	11.936	0.01430	0.00120		**69**	10.253	0.14645	0.01428
29	11.927	0.01503	0.00126		**70**	10.123	0.15656	0.01547
30	11.917	0.01579	0.00132		**71**	9.983	0.16739	0.01677
31	11.907	0.01659	0.00139		**72**	9.833	0.17897	0.01820
32	11.897	0.01744	0.00147		**73**	9.672	0.19135	0.01978
33	11.885	0.01834	0.00154		**74**	9.501	0.20455	0.02153
34	11.874	0.01929	0.00162		**75**	9.318	0.21861	0.02346
35	11.861	0.02030	0.00171		**76**	9.123	0.23356	0.02560
36	11.848	0.02136	0.00180		**77**	8.915	0.24942	0.02798
37	11.834	0.02249	0.00190		**78**	8.694	0.26621	0.03062
38	11.819	0.02368	0.00200		**79**	8.460	0.28395	0.03356
39	11.803	0.02495	0.00211		**80**	8.213	0.30262	0.03685
40	11.786	0.02629	0.00223		**81**	7.952	0.32223	0.04052
41	11.768	0.02771	0.00235		**82**	7.676	0.34274	0.04465
42	11.749	0.02922	0.00249		**83**	7.387	0.36410	0.04929
43	11.729	0.03083	0.00263		**84**	7.085	0.38625	0.05452
44	11.708	0.03253	0.00278		**85**	6.769	0.40907	0.06043
45	11.685	0.03435	0.00294		**86**	6.442	0.43241	0.06713
46	11.661	0.03627	0.00311		**87**	6.102	0.45608	0.07474
47	11.635	0.03833	0.00329		**88**	5.753	0.47983	0.08341

x	$\ddot{a}_x$	A_x	P_x		x	$\ddot{a}_x$	A_x	P_x
48	11.607	0.04052	0.00349		**89**	5.395	0.50329	0.09329
49	11.578	0.04285	0.00370		**90**	5.030	0.52601	0.10458
50	11.546	0.04533	0.00393		**91**	4.660	0.54737	0.11745
51	11.513	0.04799	0.00417		**92**	4.288	0.56648	0.13211
52	11.477	0.05082	0.00443		**93**	3.915	0.58212	0.14869
53	11.439	0.05384	0.00471		**94**	3.543	0.59241	0.16720
54	11.397	0.05708	0.00501		**95**	3.174	0.59441	0.18730
55	11.353	0.06054	0.00533		**96**	2.805	0.58314	0.20789
56	11.306	0.06425	0.00568		**97**	2.432	0.54956	0.22596
57	11.256	0.06821	0.00606		**98**	2.040	0.47588	0.23322
58	11.202	0.07247	0.00647		**99**	1.594	0.32361	0.20304
59	11.143	0.07703	0.00691		**100**	1.000	0.00000	0.00000
60	11.081	0.08192	0.00739					

x. Table of Assurance Functions $i = 10\%$

x	$\ddot{a}_x$	A_x	P_x		x	$\ddot{a}_x$	A_x	P_x
20	10.914	0.00775	0.00071		**61**	10.187	0.07149	0.00702
21	10.910	0.00812	0.00074		**62**	10.131	0.07640	0.00754
22	10.906	0.00851	0.00078		**63**	10.069	0.08172	0.00812
23	10.901	0.00893	0.00082		**64**	10.003	0.08749	0.00875
24	10.896	0.00936	0.00086		**65**	9.930	0.09373	0.00944
25	10.891	0.00982	0.00090		**66**	9.852	0.10051	0.01020
26	10.886	0.01030	0.00095		**67**	9.766	0.10786	0.01104
27	10.880	0.01081	0.00099		**68**	9.674	0.11582	0.01197
28	10.874	0.01135	0.00104		**69**	9.574	0.12442	0.01300
29	10.868	0.01192	0.00110		**70**	9.466	0.13371	0.01413
30	10.861	0.01252	0.00115		**71**	9.349	0.14373	0.01537
31	10.854	0.01315	0.00121		**72**	9.223	0.15452	0.01675
32	10.846	0.01382	0.00127		**73**	9.087	0.16613	0.01828
33	10.838	0.01452	0.00134		**74**	8.941	0.17859	0.01997
34	10.830	0.01527	0.00141		**75**	8.784	0.19195	0.02185
35	10.821	0.01607	0.00148		**76**	8.616	0.20625	0.02394
36	10.812	0.01691	0.00156		**77**	8.435	0.22152	0.02626
37	10.802	0.01780	0.00165		**78**	8.242	0.23780	0.02885
38	10.791	0.01874	0.00174		**79**	8.037	0.25510	0.03174
39	10.780	0.01975	0.00183		**80**	7.817	0.27345	0.03498
40	10.768	0.02081	0.00193		**81**	7.584	0.29283	0.03861
41	10.755	0.02195	0.00204		**82**	7.338	0.31324	0.04269
42	10.741	0.02315	0.00216		**83**	7.077	0.33465	0.04729
43	10.727	0.02444	0.00228		**84**	6.802	0.35698	0.05248
44	10.711	0.02580	0.00241		**85**	6.514	0.38015	0.05836
45	10.695	0.02726	0.00255		**86**	6.213	0.40402	0.06503
46	10.677	0.02882	0.00270		**87**	5.900	0.42840	0.07261
47	10.658	0.03048	0.00286		**88**	5.575	0.45305	0.08126

x	$\ddot{a}_x$	A_x	P_x		x	$\ddot{a}_x$	A_x	P_x
48	10.638	0.03225	0.00303		**89**	5.241	0.47761	0.09113
49	10.616	0.03415	0.00322		**90**	4.898	0.50164	0.10241
50	10.593	0.03618	0.00342		**91**	4.549	0.52450	0.11529
51	10.568	0.03836	0.00363		**92**	4.196	0.54533	0.12996
52	10.541	0.04069	0.00386		**93**	3.841	0.56289	0.14657
53	10.513	0.04320	0.00411		**94**	3.484	0.57532	0.16511
54	10.482	0.04589	0.00438		**95**	3.129	0.57967	0.18527
55	10.449	0.04878	0.00467		**96**	2.772	0.57098	0.20595
56	10.413	0.05189	0.00498		**97**	2.410	0.54023	0.22415
57	10.375	0.05524	0.00532		**98**	2.028	0.46965	0.23164
58	10.333	0.05885	0.00570		**99**	1.588	0.32066	0.20188
59	10.288	0.06274	0.00610		**100**	1.000	0.00000	0.00000
60	10.240	0.06695	0.00654					

xi. Table of Assurance Functions $i = 11\%$

x	$\ddot{a}_x$	A_x	P_x		x	$\ddot{a}_x$	A_x	P_x
20	10.026	0.00642	0.00064		**61**	9.475	0.05939	0.00627
21	10.023	0.00672	0.00067		**62**	9.430	0.06365	0.00675
22	10.020	0.00704	0.00070		**63**	9.381	0.06830	0.00728
23	10.016	0.00738	0.00074		**64**	9.328	0.07336	0.00787
24	10.013	0.00773	0.00077		**65**	9.269	0.07889	0.00851
25	10.009	0.00810	0.00081		**66**	9.205	0.08493	0.00923
26	10.005	0.00850	0.00085		**67**	9.136	0.09152	0.01002
27	10.001	0.00891	0.00089		**68**	9.060	0.09871	0.01090
28	9.996	0.00934	0.00093		**69**	8.977	0.10653	0.01187
29	9.991	0.00980	0.00098		**70**	8.886	0.11502	0.01294
30	9.986	0.01029	0.00103		**71**	8.788	0.12425	0.01414
31	9.981	0.01080	0.00108		**72**	8.682	0.13425	0.01546
32	9.976	0.01134	0.00114		**73**	8.566	0.14507	0.01693
33	9.970	0.01191	0.00119		**74**	8.441	0.15677	0.01857
34	9.964	0.01252	0.00126		**75**	8.306	0.16939	0.02039
35	9.957	0.01316	0.00132		**76**	8.160	0.18298	0.02242
36	9.950	0.01384	0.00139		**77**	8.003	0.19759	0.02469
37	9.943	0.01456	0.00146		**78**	7.833	0.21326	0.02722
38	9.935	0.01532	0.00154		**79**	7.652	0.23002	0.03006
39	9.926	0.01613	0.00163		**80**	7.457	0.24791	0.03325
40	9.918	0.01700	0.00171		**81**	7.249	0.26693	0.03682
41	9.908	0.01791	0.00181		**82**	7.027	0.28708	0.04086
42	9.898	0.01889	0.00191		**83**	6.791	0.30834	0.04541
43	9.887	0.01993	0.00202		**84**	6.541	0.33067	0.05055
44	9.876	0.02104	0.00213		**85**	6.277	0.35399	0.05639
45	9.864	0.02223	0.00225		**86**	6.000	0.37817	0.06302
46	9.850	0.02350	0.00239		**87**	5.711	0.40304	0.07058
47	9.836	0.02485	0.00253		**88**	5.409	0.42836	0.07920

x	$\ddot{a}_x$	A_x	P_x		x	$\ddot{a}_x$	A_x	P_x
48	9.821	0.02631	0.00268		**89**	5.096	0.45379	0.08905
49	9.805	0.02787	0.00284		**90**	4.774	0.47889	0.10032
50	9.788	0.02954	0.00302		**91**	4.444	0.50303	0.11319
51	9.769	0.03134	0.00321		**92**	4.109	0.52536	0.12787
52	9.749	0.03327	0.00341		**93**	3.769	0.54463	0.14449
53	9.727	0.03535	0.00363		**94**	3.428	0.55899	0.16306
54	9.704	0.03760	0.00387		**95**	3.086	0.56551	0.18327
55	9.678	0.04002	0.00413		**96**	2.741	0.55923	0.20404
56	9.651	0.04264	0.00442		**97**	2.389	0.53117	0.22237
57	9.621	0.04547	0.00473		**98**	2.015	0.46357	0.23008
58	9.589	0.04853	0.00506		**99**	1.583	0.31778	0.20073
59	9.554	0.05186	0.00543		**100**	1.000	0.00000	0.00000
60	9.516	0.05547	0.00583					

xii. Table of Assurance Functions $i = 12\%$

x	$\ddot{a}_x$	A_x	P_x		x	$\ddot{a}_x$	A_x	P_x
20	9.282	0.00548	0.00059		**61**	8.856	0.04996	0.00564
21	9.280	0.00574	0.00062		**62**	8.820	0.05367	0.00608
22	9.277	0.00601	0.00065		**63**	8.781	0.05773	0.00657
23	9.274	0.00629	0.00068		**64**	8.738	0.06218	0.00712
24	9.272	0.00659	0.00071		**65**	8.690	0.06706	0.00772
25	9.269	0.00690	0.00074		**66**	8.638	0.07244	0.00839
26	9.266	0.00722	0.00078		**67**	8.581	0.07834	0.00913
27	9.262	0.00757	0.00082		**68**	8.517	0.08481	0.00996
28	9.259	0.00793	0.00086		**69**	8.448	0.09190	0.01088
29	9.255	0.00831	0.00090		**70**	8.373	0.09965	0.01190
30	9.252	0.00872	0.00094		**71**	8.290	0.10812	0.01304
31	9.248	0.00914	0.00099		**72**	8.199	0.11735	0.01431
32	9.243	0.00959	0.00104		**73**	8.101	0.12741	0.01573
33	9.239	0.01006	0.00109		**74**	7.993	0.13834	0.01731
34	9.234	0.01056	0.00114		**75**	7.876	0.15021	0.01907
35	9.229	0.01110	0.00120		**76**	7.749	0.16307	0.02104
36	9.224	0.01166	0.00126		**77**	7.611	0.17698	0.02325
37	9.218	0.01225	0.00133		**78**	7.462	0.19199	0.02573
38	9.212	0.01288	0.00140		**79**	7.301	0.20815	0.02851
39	9.206	0.01355	0.00147		**80**	7.127	0.22549	0.03164
40	9.199	0.01426	0.00155		**81**	6.941	0.24403	0.03516
41	9.192	0.01502	0.00163		**82**	6.741	0.26381	0.03914
42	9.184	0.01582	0.00172		**83**	6.527	0.28480	0.04364
43	9.176	0.01668	0.00182		**84**	6.299	0.30698	0.04873
44	9.168	0.01760	0.00192		**85**	6.057	0.33028	0.05453
45	9.158	0.01858	0.00203		**86**	5.802	0.35460	0.06112
46	9.148	0.01963	0.00215		**87**	5.533	0.37977	0.06863
47	9.138	0.02075	0.00227		**88**	5.252	0.40556	0.07722

x	$\ddot{a}_x$	A_x	P_x		x	$\ddot{a}_x$	A_x	P_x
48	9.126	0.02195	0.00241		**89**	4.959	0.43167	0.08705
49	9.114	0.02324	0.00255		**90**	4.656	0.45764	0.09829
50	9.100	0.02463	0.00271		**91**	4.344	0.48286	0.11116
51	9.086	0.02613	0.00288		**92**	4.025	0.50648	0.12583
52	9.071	0.02774	0.00306		**93**	3.701	0.52727	0.14246
53	9.054	0.02948	0.00326		**94**	3.374	0.54339	0.16106
54	9.036	0.03137	0.00347		**95**	3.044	0.55190	0.18131
55	9.016	0.03341	0.00371		**96**	2.710	0.54788	0.20215
56	8.995	0.03562	0.00396		**97**	2.368	0.52237	0.22061
57	8.972	0.03802	0.00424		**98**	2.002	0.45763	0.22853
58	8.946	0.04063	0.00454		**99**	1.578	0.31494	0.19959
59	8.919	0.04347	0.00487		**100**	1.000	0.00000	0.00000
60	8.889	0.04658	0.00524					

xiii. Table of Assurance Functions $i = 13\%$

x	$\ddot{a}_x$	A_x	P_x		x	$\ddot{a}_x$	A_x	P_x
20	8.651	0.00479	0.00055		**61**	8.315	0.04256	0.00512
21	8.649	0.00502	0.00058		**62**	8.286	0.04578	0.00553
22	8.647	0.00525	0.00061		**63**	8.254	0.04933	0.00598
23	8.645	0.00549	0.00063		**64**	8.219	0.05324	0.00648
24	8.642	0.00574	0.00066		**65**	8.180	0.05757	0.00704
25	8.640	0.00601	0.00070		**66**	8.137	0.06235	0.00766
26	8.638	0.00629	0.00073		**67**	8.090	0.06763	0.00836
27	8.635	0.00658	0.00076		**68**	8.037	0.07346	0.00914
28	8.632	0.00689	0.00080		**69**	7.979	0.07988	0.01001
29	8.629	0.00722	0.00084		**70**	7.915	0.08694	0.01098
30	8.626	0.00756	0.00088		**71**	7.845	0.09469	0.01207
31	8.623	0.00793	0.00092		**72**	7.767	0.10320	0.01329
32	8.620	0.00831	0.00096		**73**	7.682	0.11253	0.01465
33	8.616	0.00871	0.00101		**74**	7.590	0.12272	0.01617
34	8.613	0.00913	0.00106		**75**	7.488	0.13385	0.01788
35	8.609	0.00958	0.00111		**76**	7.377	0.14599	0.01979
36	8.605	0.01006	0.00117		**77**	7.256	0.15918	0.02194
37	8.600	0.01056	0.00123		**78**	7.124	0.17350	0.02436
38	8.596	0.01109	0.00129		**79**	6.981	0.18901	0.02708
39	8.591	0.01165	0.00136		**80**	6.825	0.20575	0.03014
40	8.585	0.01225	0.00143		**81**	6.658	0.22376	0.03361
41	8.580	0.01289	0.00150		**82**	6.477	0.24307	0.03753
42	8.574	0.01356	0.00158		**83**	6.282	0.26369	0.04197
43	8.567	0.01428	0.00167		**84**	6.074	0.28560	0.04702
44	8.561	0.01505	0.00176		**85**	5.852	0.30875	0.05276
45	8.553	0.01587	0.00186		**86**	5.616	0.33306	0.05930
46	8.546	0.01675	0.00196		**87**	5.367	0.35838	0.06677
47	8.537	0.01769	0.00207		**88**	5.104	0.38449	0.07532

x	$\ddot{a}_x$	A_x	P_x		x	$\ddot{a}_x$	A_x	P_x
48	8.528	0.01870	0.00219		**89**	4.830	0.41109	0.08512
49	8.519	0.01978	0.00232		**90**	4.544	0.43776	0.09634
50	8.508	0.02095	0.00246		**91**	4.249	0.46388	0.10918
51	8.497	0.02221	0.00261		**92**	3.946	0.48863	0.12384
52	8.485	0.02357	0.00278		**93**	3.636	0.51077	0.14047
53	8.472	0.02504	0.00296		**94**	3.322	0.52846	0.15909
54	8.458	0.02663	0.00315		**95**	3.004	0.53881	0.17939
55	8.442	0.02836	0.00336		**96**	2.681	0.53691	0.20030
56	8.426	0.03024	0.00359		**97**	2.348	0.51382	0.21887
57	8.407	0.03228	0.00384		**98**	1.990	0.45182	0.22700
58	8.387	0.03451	0.00411		**99**	1.573	0.31215	0.19847
59	8.366	0.03696	0.00442		**100**	1.000	0.00000	0.00000
60	8.342	0.03963	0.00475					

xiv. Table of Assurance Functions $i = 14\%$

x	$\ddot{a}_x$	A_x	P_x		x	$\ddot{a}_x$	A_x	P_x
20	8.108	0.00427	0.00053		**61**	7.839	0.03669	0.00468
21	8.107	0.00446	0.00055		**62**	7.816	0.03950	0.00505
22	8.105	0.00466	0.00058		**63**	7.790	0.04261	0.00547
23	8.103	0.00488	0.00060		**64**	7.761	0.04606	0.00593
24	8.101	0.00510	0.00063		**65**	7.729	0.04989	0.00645
25	8.099	0.00533	0.00066		**66**	7.693	0.05414	0.00704
26	8.097	0.00558	0.00069		**67**	7.653	0.05887	0.00769
27	8.095	0.00584	0.00072		**68**	7.609	0.06412	0.00843
28	8.093	0.00611	0.00075		**69**	7.560	0.06994	0.00925
29	8.091	0.00639	0.00079		**70**	7.506	0.07637	0.01017
30	8.088	0.00669	0.00083		**71**	7.445	0.08347	0.01121
31	8.086	0.00700	0.00087		**72**	7.379	0.09130	0.01237
32	8.083	0.00733	0.00091		**73**	7.306	0.09993	0.01368
33	8.080	0.00768	0.00095		**74**	7.225	0.10942	0.01514
34	8.077	0.00805	0.00100		**75**	7.136	0.11984	0.01679
35	8.074	0.00844	0.00105		**76**	7.039	0.13126	0.01865
36	8.071	0.00885	0.00110		**77**	6.932	0.14375	0.02074
37	8.067	0.00928	0.00115		**78**	6.815	0.15738	0.02309
38	8.063	0.00973	0.00121		**79**	6.687	0.17222	0.02575
39	8.059	0.01022	0.00127		**80**	6.548	0.18832	0.02876
40	8.055	0.01073	0.00133		**81**	6.397	0.20574	0.03216
41	8.051	0.01127	0.00140		**82**	6.233	0.22453	0.03602
42	8.046	0.01185	0.00147		**83**	6.056	0.24470	0.04041
43	8.041	0.01247	0.00155		**84**	5.866	0.26626	0.04539
44	8.036	0.01312	0.00163		**85**	5.661	0.28917	0.05108
45	8.030	0.01382	0.00172		**86**	5.443	0.31335	0.05757
46	8.024	0.01457	0.00182		**87**	5.211	0.33869	0.06500
47	8.017	0.01537	0.00192		**88**	4.966	0.36498	0.07350

x	$\ddot{a}_x$	A_x	P_x		x	$\ddot{a}_x$	A_x	P_x
48	8.010	0.01623	0.00203		**89**	4.708	0.39194	0.08326
49	8.002	0.01715	0.00214		**90**	4.438	0.41915	0.09444
50	7.994	0.01814	0.00227		**91**	4.158	0.44602	0.10726
51	7.985	0.01921	0.00241		**92**	3.869	0.47172	0.12191
52	7.976	0.02036	0.00255		**93**	3.573	0.49505	0.13854
53	7.965	0.02161	0.00271		**94**	3.272	0.51418	0.15717
54	7.954	0.02297	0.00289		**95**	2.965	0.52623	0.17749
55	7.942	0.02445	0.00308		**96**	2.652	0.52630	0.19847
56	7.928	0.02605	0.00329		**97**	2.328	0.50551	0.21716
57	7.914	0.02781	0.00351		**98**	1.979	0.44615	0.22549
58	7.898	0.02973	0.00376		**99**	1.568	0.30941	0.19736
59	7.880	0.03183	0.00404		**100**	1.000	0.00000	0.00000
60	7.861	0.03414	0.00434					

xv. Table of Assurance Functions $i = 15\%$

x	$\ddot{a}_x$	A_x	P_x		x	$\ddot{a}_x$	A_x	P_x
20	7.637	0.00385	0.00050		**61**	7.418	0.03199	0.00431
21	7.636	0.00402	0.00053		**62**	7.399	0.03446	0.00466
22	7.634	0.00420	0.00055		**63**	7.377	0.03719	0.00504
23	7.633	0.00439	0.00058		**64**	7.353	0.04023	0.00547
24	7.631	0.00459	0.00060		**65**	7.327	0.04363	0.00595
25	7.630	0.00480	0.00063		**66**	7.297	0.04743	0.00650
26	7.628	0.00502	0.00066		**67**	7.263	0.05167	0.00711
27	7.626	0.00525	0.00069		**68**	7.226	0.05640	0.00781
28	7.625	0.00549	0.00072		**69**	7.184	0.06167	0.00858
29	7.623	0.00574	0.00075		**70**	7.138	0.06753	0.00946
30	7.621	0.00601	0.00079		**71**	7.086	0.07403	0.01045
31	7.618	0.00628	0.00082		**72**	7.029	0.08124	0.01156
32	7.616	0.00658	0.00086		**73**	6.965	0.08923	0.01281
33	7.614	0.00688	0.00090		**74**	6.895	0.09805	0.01422
34	7.611	0.00721	0.00095		**75**	6.817	0.10780	0.01581
35	7.609	0.00755	0.00099		**76**	6.731	0.11853	0.01761
36	7.606	0.00791	0.00104		**77**	6.637	0.13033	0.01964
37	7.603	0.00828	0.00109		**78**	6.533	0.14327	0.02193
38	7.600	0.00868	0.00114		**79**	6.418	0.15744	0.02453
39	7.597	0.00911	0.00120		**80**	6.293	0.17289	0.02747
40	7.593	0.00955	0.00126		**81**	6.157	0.18971	0.03081
41	7.590	0.01003	0.00132		**82**	6.008	0.20793	0.03461
42	7.586	0.01053	0.00139		**83**	5.846	0.22760	0.03893
43	7.582	0.01106	0.00146		**84**	5.671	0.24874	0.04386
44	7.577	0.01163	0.00153		**85**	5.482	0.27132	0.04949
45	7.573	0.01223	0.00162		**86**	5.280	0.29529	0.05592
46	7.568	0.01288	0.00170		**87**	5.064	0.32054	0.06330
47	7.562	0.01357	0.00179		**88**	4.835	0.34690	0.07175

48	7.556	0.01431	0.00189		**89**	4.592	0.37408	0.08146
49	7.550	0.01510	0.00200		**90**	4.337	0.40170	0.09261
50	7.544	0.01595	0.00211		**91**	4.072	0.42918	0.10540
51	7.537	0.01687	0.00224		**92**	3.797	0.45571	0.12003
52	7.529	0.01786	0.00237		**93**	3.513	0.48009	0.13665
53	7.520	0.01894	0.00252		**94**	3.223	0.50051	0.15528
54	7.511	0.02011	0.00268		**95**	2.927	0.51411	0.17563
55	7.501	0.02138	0.00285		**96**	2.624	0.51604	0.19667
56	7.491	0.02276	0.00304		**97**	2.309	0.49742	0.21547
57	7.479	0.02428	0.00325		**98**	1.967	0.44060	0.22400
58	7.466	0.02594	0.00347		**99**	1.563	0.30672	0.19626
59	7.452	0.02776	0.00373		**100**	1.000	0.00000	0.00000
60	7.436	0.02977	0.00400					

C) GROUP LIFE ASSURANCE MALE AND FEMALE

a. Male Life Table

x	m_x	q_x	l_x	d_x	L_x	T_x	e_x
20	0.0003511	0.0003510	1,000,000	351	999,825	65,243,159	65
21	0.000391	0.0003909	999,649	390	999,454	64,243,335	64
22	0.0004351	0.0004350	999,259	434	999,042	63,243,881	63
23	0.0004838	0.0004837	998,825	483	998,584	62,244,839	62
24	0.0005375	0.0005374	998,342	536	998,074	61,246,255	61
25	0.0005967	0.0005965	997,806	595	997,509	60,248,181	60
26	0.0006617	0.0006615	997,211	659	996,882	59,250,673	59
27	0.0007329	0.0007327	996,552	730	996,187	58,253,791	58
28	0.0008109	0.0008106	995,822	807	995,419	57,257,604	57
29	0.0008959	0.0008955	995,015	891	994,570	56,262,186	57
30	0.0009885	0.0009880	994,124	982	993,633	55,267,616	56
31	0.0010889	0.0010883	993,142	1,080	992,602	54,273,983	55
32	0.0011974	0.0011967	992,062	1,187	991,469	53,281,381	54
33	0.0013144	0.0013135	990,875	1,301	990,225	52,289,913	53
34	0.0014400	0.0014389	989,574	1,423	988,863	51,299,688	52
35	0.0015742	0.0015729	988,151	1,554	987,374	50,310,826	51
36	0.0017170	0.0017155	986,597	1,692	985,751	49,323,452	50
37	0.0018683	0.0018666	984,905	1,838	983,986	48,337,701	49
38	0.0020279	0.0020258	983,067	1,991	982,072	47,353,715	48
39	0.0021952	0.0021928	981,076	2,151	980,001	46,371,643	47
40	0.0023697	0.0023669	978,925	2,316	977,767	45,391,643	46
41	0.0025506	0.0025474	976,609	2,487	975,366	44,413,876	45
42	0.0027372	0.0027335	974,122	2,662	972,791	43,438,510	45
43	0.0029285	0.0029242	971,460	2,840	970,040	42,465,719	44
44	0.0031232	0.0031184	968,620	3,020	967,110	41,495,679	43
45	0.0033203	0.0033148	965,600	3,200	964,000	40,528,569	42

x	m_x	q_x	l_x	d_x	L_x	T_x	e_x
46	0.0035186	0.0035124	962,400	3,380	960,710	39,564,569	41
47	0.0037166	0.0037097	959,020	3,557	957,242	38,603,859	40
48	0.0039132	0.0039055	955,463	3,731	953,598	37,646,618	39
49	0.0041071	0.0040986	951,732	3,900	949,782	36,693,020	39
50	0.0042971	0.0042879	947,832	4,064	945,800	35,743,238	38
51	0.0044823	0.0044722	943,768	4,220	941,658	34,797,438	37
52	0.0046615	0.0046507	939,548	4,369	937,364	33,855,780	36
53	0.0048341	0.0048224	935,179	4,509	932,925	32,918,417	35
54	0.0049993	0.0049868	930,670	4,641	928,350	31,985,492	34
55	0.0051566	0.0051433	926,029	4,762	923,648	31,057,143	34
56	0.0053056	0.0052916	921,267	4,874	918,830	30,133,495	33
57	0.0054461	0.0054313	916,393	4,977	913,905	29,214,665	32
58	0.0055779	0.0055624	911,416	5,069	908,882	28,300,760	31
59	0.0057011	0.0056848	906,347	5,152	903,771	27,391,879	30
60	0.0058157	0.0057988	901,195	5,225	898,583	26,488,108	29
61	0.0059219	0.0059044	895,970	5,290	893,325	25,589,525	29
62	0.0060201	0.0060021	890,680	5,345	888,008	24,696,200	28
63	0.0061106	0.0060919	885,335	5,393	882,639	23,808,193	27
64	0.0061936	0.0061745	879,942	5,433	877,226	22,925,554	26
65	0.0062697	0.0062501	874,509	5,465	871,777	22,048,329	25
66	0.0063977	0.0063773	869,044	5,542	866,273	21,176,552	24
67	0.0065723	0.0065508	863,502	5,656	860,674	20,310,279	24
68	0.0067972	0.0067741	857,846	5,811	854,941	19,449,605	23
69	0.0070770	0.0070521	852,035	6,008	849,031	18,594,665	22
70	0.0074181	0.0073906	846,027	6,252	842,901	17,745,634	21

b. Female Life Table

x	m_x	q_x	l_x	d_x	L_x	T_x	e_x
20	0.0012102	0.0012095	1,000,000	1,209	999,396	66,712,977	67
21	0.0013454	0.0013445	998,791	1,342	998,120	65,713,582	66
22	0.0012745	0.0012737	997,449	1,270	996,814	64,715,462	65
23	0.0010689	0.0010683	996,179	1,064	995,647	63,718,648	64
24	0.0008360	0.0008357	995,115	831	994,700	62,723,001	63
25	0.0006540	0.0006538	994,284	650	993,959	61,728,301	62
26	0.0005530	0.0005528	993,634	549	993,360	60,734,342	61
27	0.0005278	0.0005277	993,085	524	992,823	59,740,983	60
28	0.0005603	0.0005601	992,561	555	992,284	58,748,160	59
29	0.0006333	0.0006331	992,006	628	991,692	57,755,876	58
30	0.0007351	0.0007348	991,378	728	991,014	56,764,184	57
31	0.0008597	0.0008593	990,650	851	990,225	55,773,170	56
32	0.0010043	0.0010038	989,799	993	989,303	54,782,946	55
33	0.0011676	0.0011669	988,806	1,153	988,230	53,793,643	54
34	0.0013487	0.0013478	987,653	1,331	986,988	52,805,414	53
35	0.0015462	0.0015450	986,322	1,523	985,561	51,818,426	53
36	0.0017581	0.0017566	984,799	1,729	983,935	50,832,866	52
37	0.0019816	0.0019797	983,070	1,946	982,097	49,848,931	51
38	0.0022132	0.0022107	981,124	2,169	980,040	48,866,834	50
39	0.0024486	0.0024457	978,955	2,394	977,758	47,886,795	49
40	0.0026836	0.0026800	976,561	2,617	975,253	46,909,037	48
41	0.0029136	0.0029094	973,944	2,833	972,528	45,933,784	47
42	0.0031347	0.0031298	971,111	3,039	969,592	44,961,257	46
43	0.0033436	0.0033380	968,072	3,231	966,457	43,991,665	45
44	0.0035374	0.0035312	964,841	3,407	963,138	43,025,209	45
45	0.0037147	0.0037078	961,434	3,564	959,652	42,062,071	44
46	0.0038745	0.0038670	957,870	3,704	956,018	41,102,419	43
47	0.0040166	0.0040086	954,166	3,824	952,254	40,146,401	42

x	m_x	q_x	l_x	d_x	L_x	T_x	e_x
48	0.0041417	0.0041331	950,342	3,927	948,379	39,194,147	41
49	0.0042506	0.0042415	946,415	4,014	944,408	38,245,769	40
50	0.0043446	0.0043351	942,401	4,085	940,359	37,301,361	40
51	0.0044251	0.0044153	938,316	4,142	936,245	36,361,002	39
52	0.0044936	0.0044835	934,174	4,188	932,080	35,424,757	38
53	0.0045516	0.0045413	929,986	4,223	927,875	34,492,677	37
54	0.0046005	0.0045899	925,763	4,249	923,639	33,564,803	36
55	0.0046415	0.0046307	921,514	4,267	919,381	32,641,164	35
56	0.0046758	0.0046649	917,247	4,278	915,108	31,721,784	35
57	0.0047044	0.0046934	912,969	4,284	910,827	30,806,676	34
58	0.0047282	0.0047170	908,685	4,286	906,542	29,895,849	33
59	0.004748	0.0047367	904,399	4,283	902,258	28,989,307	32
60	0.0047644	0.0047530	900,116	4,278	897,977	28,087,049	31
61	0.0047779	0.0047665	895,838	4,270	893,703	27,189,072	30
62	0.0047944	0.0047830	891,568	4,264	889,436	26,295,369	29
63	0.0048110	0.0047994	887,304	4,258	885,175	25,405,933	29
64	0.0048276	0.0048160	883,046	4,252	880,920	24,520,758	28
65	0.0048443	0.0048325	878,794	4,246	876,671	23,639,838	27
66	0.0048972	0.0048852	874,548	4,272	872,412	22,763,167	26
67	0.0049875	0.0049751	870,276	4,329	868,112	21,890,755	25
68	0.0051174	0.0051043	865,947	4,420	863,737	21,022,644	24
69	0.0052897	0.0052757	861,527	4,545	859,255	20,158,907	23
70	0.0055085	0.0054934	856,982	4,707	854,629	19,299,652	23

D) FUNERAL PRINCIPAL MEMBERS

a. Life Table

x	m_x	q_x	l_x	d_x	L_x	T_x	e_x
20	0.0009078	0.0009074	1,000,000	907	999,547	61,711,149	62
21	0.0009448	0.0009444	999,093	943	998,622	60,711,603	61
22	0.0009845	0.0009840	998,150	982	997,659	59,712,981	60
23	0.0010270	0.0010265	997,168	1,023	996,657	58,715,322	59
24	0.0010727	0.0010721	996,145	1,067	995,612	57,718,666	58
25	0.0011216	0.0011210	995,078	1,115	994,521	56,723,054	57
26	0.0011740	0.0011734	993,963	1,166	993,380	55,728,534	56
27	0.0012303	0.0012295	992,797	1,220	992,187	54,735,154	55
28	0.0012906	0.0012898	991,577	1,278	990,938	53,742,967	54
29	0.0013553	0.0013544	990,299	1,341	989,629	52,752,029	53
30	0.0014246	0.0014236	988,958	1,407	988,255	51,762,400	52
31	0.0014990	0.0014978	987,551	1,479	986,812	50,774,146	51
32	0.0015787	0.0015774	986,072	1,555	985,295	49,787,334	50
33	0.0016642	0.0016628	984,517	1,637	983,699	48,802,040	50
34	0.0017558	0.0017543	982,880	1,724	982,018	47,818,341	49
35	0.0018541	0.0018524	981,156	1,817	980,248	46,836,323	48
36	0.0019595	0.0019575	979,339	1,917	978,381	45,856,076	47
37	0.0020724	0.0020703	977,422	2,023	976,411	44,877,695	46
38	0.0021936	0.0021912	975,399	2,137	974,331	43,901,285	45
39	0.0023235	0.0023208	973,262	2,258	972,133	42,926,954	44
40	0.0024628	0.0024598	971,004	2,388	969,810	41,954,821	43
41	0.0026122	0.0026087	968,616	2,526	967,353	40,985,011	42
42	0.0027723	0.0027685	966,090	2,674	964,753	40,017,658	41
43	0.0029440	0.0029397	963,416	2,832	962,000	39,052,905	41
44	0.0031281	0.0031232	960,584	3,000	959,084	38,090,905	40
45	0.0033256	0.0033200	957,584	3,179	955,995	37,131,821	39

x	m_x	q_x	l_x	d_x	L_x	T_x	e_x
46	0.0035372	0.0035310	954,405	3,369	952,721	36,175,827	38
47	0.0037642	0.0037571	951,036	3,573	949,250	35,223,106	37
48	0.0040076	0.0039996	947,463	3,789	945,569	34,273,857	36
49	0.0042686	0.0042595	943,674	4,019	941,665	33,328,288	35
50	0.0045484	0.0045380	939,655	4,264	937,523	32,386,624	34
51	0.0048484	0.0048367	935,391	4,524	933,129	31,449,101	34
52	0.0051701	0.0051568	930,867	4,800	928,467	30,515,972	33
53	0.0055151	0.0054999	926,067	5,093	923,521	29,587,505	32
54	0.0058849	0.0058676	920,974	5,403	918,273	28,663,984	31
55	0.0062815	0.0062618	915,571	5,733	912,705	27,745,712	30
56	0.0067068	0.0066843	909,838	6,081	906,798	26,833,007	29
57	0.0071627	0.0071371	903,757	6,450	900,532	25,926,210	29
58	0.0076516	0.0076224	897,307	6,839	893,888	25,025,678	28
59	0.0081759	0.0081425	890,468	7,250	886,843	24,131,790	27
60	0.0087380	0.0086999	883,218	7,683	879,377	23,244,947	26
61	0.0093407	0.0092972	875,535	8,140	871,465	22,365,571	26
62	0.0099870	0.0099373	867,395	8,619	863,086	21,494,106	25
63	0.0106799	0.0106231	858,776	9,122	854,215	20,631,020	24
64	0.0114229	0.0113579	849,654	9,650	844,829	19,776,805	23
65	0.0122196	0.0121453	840,004	10,202	834,903	18,931,976	23
66	0.0130739	0.0129888	829,802	10,778	824,413	18,097,073	22
67	0.0139899	0.0138925	819,024	11,378	813,335	17,272,660	21
68	0.0149720	0.0148605	807,646	12,002	801,645	16,459,325	20
69	0.0160251	0.0158974	795,644	12,648	789,320	15,657,680	20
70	0.0171543	0.0170080	782,996	13,317	776,338	14,868,360	19
71	0.0183651	0.0181975	769,679	14,006	762,676	14,092,023	18
72	0.0196633	0.0194713	755,673	14,713	748,317	13,329,347	18
73	0.0210554	0.0208353	740,960	15,438	733,241	12,581,030	17
74	0.0225480	0.0222957	725,522	16,176	717,434	11,847,789	16

x	m_x	q_x	l_x	d_x	L_x	T_x	e_x
75	0.0241484	0.0238592	709,346	16,924	700,884	11,130,355	16
76	0.0258645	0.0255329	692,422	17,679	683,583	10,429,471	15
77	0.0277046	0.0273243	674,743	18,436	665,525	9,745,889	14
78	0.0296776	0.0292415	656,307	19,191	646,712	9,080,364	14
79	0.0317931	0.0312930	637,116	19,937	627,148	8,433,652	13
80	0.0340615	0.0334879	617,179	20,668	606,845	7,806,505	13
81	0.0364938	0.0358359	596,511	21,376	585,823	7,199,660	12
82	0.0391018	0.0383471	575,135	22,054	564,108	6,613,837	11
83	0.0418982	0.0410326	553,081	22,694	541,734	6,049,729	11
84	0.0448966	0.0439037	530,387	23,285	518,745	5,507,995	10
85	0.0481117	0.0469727	507,102	23,819	495,193	4,989,250	10
86	0.0515590	0.0502524	483,283	24,286	471,140	4,494,058	9
87	0.0552555	0.0537566	458,997	24,674	446,660	4,022,918	9
88	0.0592189	0.0574996	434,323	24,973	421,837	3,576,258	8
89	0.0634687	0.0614965	409,350	25,173	396,764	3,154,421	8
90	0.0680256	0.0657634	384,177	25,264	371,545	2,757,658	7
91	0.0729117	0.0703171	358,913	25,237	346,295	2,386,113	7
92	0.0781508	0.0751750	333,676	25,084	321,134	2,039,818	6
93	0.0837683	0.0803557	308,592	24,797	296,194	1,718,684	6
94	0.0897918	0.0858785	283,795	24,371	271,610	1,422,491	5
95	0.0962504	0.0917634	259,424	23,805	247,522	1,150,881	4
96	0.1031756	0.0980315	235,619	23,098	224,070	903,360	4
97	0.1106012	0.1047043	212,521	22,251	201,396	679,290	3
98	0.1185632	0.1118044	190,270	21,273	179,634	477,894	3
99	0.1271005	0.1193548	168,997	20,170	158,912	298,261	2
100	0.1362546	0.1273795	148,827	18,957	139,349	139,349	1

E) FUNERAL SPOUSES

a. Life Table

x	m_x	q_x	l_x	d_x	L_x	T_x	e_x
20	0.0008398	0.0008395	1,000,000	839	999,581	65,412,507	65
21	0.0008844	0.0008840	999,161	883	998,720	64,412,926	64
22	0.0009315	0.0009311	998,278	929	997,814	63,414,207	64
23	0.0009813	0.0009808	997,349	978	996,860	62,416,393	63
24	0.0010339	0.0010333	996,371	1,029	995,857	61,419,533	62
25	0.0010894	0.0010888	995,342	1,083	994,801	60,423,677	61
26	0.0011480	0.0011474	994,259	1,140	993,689	59,428,876	60
27	0.0012100	0.0012093	993,119	1,200	992,519	58,435,187	59
28	0.0012754	0.0012746	991,919	1,264	991,287	57,442,668	58
29	0.0013446	0.0013437	990,655	1,331	989,990	56,451,381	57
30	0.0014176	0.0014166	989,324	1,401	988,624	55,461,392	56
31	0.0014948	0.0014936	987,923	1,475	987,186	54,472,768	55
32	0.0015762	0.0015750	986,448	1,553	985,672	53,485,583	54
33	0.0016623	0.0016609	984,895	1,635	984,078	52,499,911	53
34	0.0017533	0.0017517	983,260	1,722	982,399	51,515,834	52
35	0.0018493	0.0018476	981,538	1,813	980,632	50,533,435	51
36	0.0019508	0.0019489	979,725	1,909	978,771	49,552,803	51
37	0.0020579	0.0020558	977,816	2,010	976,811	48,574,033	50
38	0.0021712	0.0021688	975,806	2,116	974,748	47,597,222	49
39	0.0022908	0.0022881	973,690	2,227	972,577	46,622,474	48
40	0.0024171	0.0024142	971,463	2,345	970,291	45,649,897	47
41	0.0025505	0.0025473	969,118	2,468	967,884	44,679,607	46
42	0.0026915	0.0026879	966,650	2,598	965,351	43,711,723	45
43	0.0028404	0.0028364	964,052	2,734	962,685	42,746,372	44
44	0.0029977	0.0029932	961,318	2,877	959,880	41,783,687	43
45	0.0031639	0.0031589	958,441	3,027	956,928	40,823,807	43

x	m_x	q_x	l_x	d_x	L_x	T_x	e_x
46	0.0033394	0.0033338	955,414	3,185	953,822	39,866,880	42
47	0.0035248	0.0035186	952,229	3,350	950,554	38,913,058	41
48	0.0037206	0.0037137	948,879	3,523	947,118	37,962,504	40
49	0.0039275	0.0039198	945,356	3,705	943,504	37,015,387	39
50	0.0041461	0.0041375	941,651	3,896	939,703	36,071,883	38
51	0.0043769	0.0043673	937,755	4,095	935,708	35,132,180	37
52	0.0046208	0.0046101	933,660	4,304	931,508	34,196,473	37
53	0.0048783	0.0048665	929,356	4,522	927,095	33,264,965	36
54	0.0051504	0.0051372	924,834	4,751	922,459	32,337,870	35
55	0.0054379	0.0054231	920,083	4,989	917,589	31,415,411	34
56	0.0057415	0.0057250	915,094	5,238	912,475	30,497,823	33
57	0.0060622	0.0060439	909,856	5,499	907,107	29,585,348	33
58	0.0064010	0.0063806	904,357	5,770	901,472	28,678,241	32
59	0.0067589	0.0067361	898,587	6,052	895,561	27,776,769	31
60	0.0071369	0.0071115	892,535	6,347	889,362	26,881,208	30
61	0.0075363	0.0075079	886,188	6,653	882,862	25,991,847	29
62	0.0079581	0.0079265	879,535	6,971	876,050	25,108,985	29
63	0.0084037	0.0083685	872,564	7,302	868,913	24,232,936	28
64	0.0088744	0.0088351	865,262	7,644	861,440	23,364,023	27
65	0.0093716	0.0093278	857,618	7,999	853,619	22,502,583	26
66	0.0098968	0.0098480	849,619	8,367	845,436	21,648,964	25
67	0.0104516	0.0103972	841,252	8,746	836,879	20,803,529	25
68	0.0110377	0.0109770	832,506	9,138	827,937	19,966,650	24
69	0.0116567	0.0115891	823,368	9,542	818,597	19,138,713	23
70	0.0123107	0.0122352	813,826	9,957	808,848	18,320,116	23
71	0.0130015	0.0129173	803,869	10,383	798,678	17,511,268	22
72	0.0137312	0.0136373	793,486	10,821	788,076	16,712,591	21
73	0.0145020	0.0143973	782,665	11,268	777,031	15,924,515	20
74	0.0153162	0.0151995	771,397	11,724	765,535	15,147,484	20

x	m_x	q_x	l_x	d_x	L_x	T_x	e_x
75	0.0161763	0.0160462	759,673	12,189	753,579	14,381,949	19
76	0.0170849	0.0169397	747,484	12,662	741,153	13,628,371	18
77	0.0180446	0.0178828	734,822	13,140	728,252	12,887,218	18
78	0.0190584	0.0188779	721,682	13,623	714,871	12,158,966	17
79	0.0201293	0.0199280	708,059	14,110	701,004	11,444,095	16
80	0.0212605	0.0210361	693,949	14,597	686,651	10,743,091	15
81	0.0224555	0.0222052	679,352	15,085	671,810	10,056,441	15
82	0.0237178	0.0234387	664,267	15,569	656,483	9,384,631	14
83	0.0250512	0.0247400	648,698	16,048	640,674	8,728,149	13
84	0.0264597	0.0261127	632,650	16,520	624,390	8,087,475	13
85	0.0279475	0.0275606	616,130	16,980	607,640	7,463,085	12
86	0.0295192	0.0290877	599,150	17,427	590,437	6,855,445	11
87	0.0311794	0.0306983	581,723	17,857	572,795	6,265,008	11
88	0.0329331	0.0323967	563,866	18,267	554,733	5,692,214	10
89	0.0347856	0.0341875	545,599	18,652	536,273	5,137,481	9
90	0.0367425	0.0360757	526,947	19,009	517,443	4,601,208	9
91	0.0388096	0.0380661	507,938	19,335	498,271	4,083,766	8
92	0.0409932	0.0401643	488,603	19,624	478,791	3,585,495	7
93	0.0432997	0.0423757	468,979	19,873	459,043	3,106,704	7
94	0.0457362	0.0447061	449,106	20,077	439,068	2,647,662	6
95	0.0483100	0.0471616	429,029	20,233	418,913	2,208,594	5
96	0.0510287	0.0497486	408,796	20,337	398,628	1,789,682	4
97	0.0539006	0.0524737	388,459	20,383	378,268	1,391,054	4
98	0.0569343	0.0553439	368,076	20,370	357,891	1,012,787	3
99	0.0601389	0.0583663	347,706	20,294	337,559	654,896	2
100	0.0635240	0.0615484	327,412	20,151	317,337	317,337	1

F) FUNERAL ADULT DEPENDENTS

a. Life Table

x	m_x	q_x	l_x	d_x	L_x	T_x	e_x
20	0.0016781	0.0016767	1,000,000	1,676	999,162	48,551,349	49
21	0.0019337	0.0019319	998,324	1,928	997,360	47,552,187	48
22	0.0021938	0.0021914	996,396	2,183	995,305	46,554,827	47
23	0.0023867	0.0023838	994,213	2,370	993,028	45,559,522	46
24	0.0026216	0.0026182	991,843	2,596	990,545	44,566,494	45
25	0.0028739	0.0028698	989,247	2,838	987,828	43,575,949	44
26	0.0031678	0.0031628	986,409	3,119	984,850	42,588,121	43
27	0.0034399	0.0034340	983,290	3,376	981,602	41,603,272	42
28	0.0037666	0.0037595	979,914	3,683	978,073	40,621,670	41
29	0.0041122	0.0041038	976,231	4,006	974,228	39,643,597	41
30	0.0044062	0.0043965	972,225	4,274	970,088	38,669,369	40
31	0.0046115	0.0046008	967,951	4,453	965,725	37,699,281	39
32	0.0052851	0.0052711	963,498	5,078	960,959	36,733,557	38
33	0.0059281	0.0059105	958,420	5,664	955,588	35,772,598	37
34	0.0064349	0.0064142	952,756	6,111	949,701	34,817,010	37
35	0.0068657	0.0068422	946,645	6,477	943,407	33,867,309	36
36	0.0074536	0.0074259	940,168	6,981	936,678	32,923,903	35
37	0.0079409	0.0079095	933,187	7,381	929,497	31,987,225	34
38	0.0084838	0.0084479	925,806	7,821	921,896	31,057,729	34
39	0.0090004	0.0089600	917,985	8,225	913,873	30,135,833	33
40	0.0094438	0.0093993	909,760	8,551	905,485	29,221,961	32
41	0.0099141	0.0098651	901,209	8,890	896,764	28,316,476	31
42	0.0103765	0.0103229	892,319	9,211	887,714	27,419,712	31
43	0.0108361	0.0107776	883,108	9,517	878,350	26,531,999	30
44	0.0112968	0.0112332	873,591	9,813	868,685	25,653,649	29
45	0.0117622	0.0116933	863,778	10,100	858,728	24,784,965	29

x	m_x	q_x	l_x	d_x	L_x	T_x	e_x
46	0.012232	0.0121575	853,678	10,378	848,489	23,926,237	28
47	0.0127022	0.0126218	843,300	10,643	837,979	23,077,748	27
48	0.0131634	0.0130772	832,657	10,888	827,213	22,239,769	27
49	0.0136046	0.0135124	821,769	11,104	816,217	21,412,556	26
50	0.0140157	0.0139180	810,665	11,282	805,024	20,596,339	25
51	0.0143941	0.0142910	799,383	11,423	793,672	19,791,315	25
52	0.0147445	0.0146363	787,960	11,532	782,194	18,997,644	24
53	0.0150803	0.0149672	776,428	11,620	770,618	18,215,450	23
54	0.0154192	0.0153009	764,808	11,702	758,957	17,444,832	23
55	0.0157831	0.0156592	753,106	11,793	747,210	16,685,875	22
56	0.0161937	0.0160633	741,313	11,907	735,360	15,938,665	22
57	0.0166707	0.0165325	729,406	12,058	723,377	15,203,306	21
58	0.0172294	0.0170818	717,348	12,253	711,222	14,479,929	20
59	0.0178855	0.0177265	705,095	12,498	698,846	13,768,707	20
60	0.0186529	0.0184801	692,597	12,799	686,198	13,069,861	19
61	0.0195483	0.0193584	679,798	13,159	673,219	12,383,664	18
62	0.0205908	0.0203802	666,639	13,586	659,846	11,710,445	18
63	0.0218031	0.0215671	653,053	14,084	646,011	11,050,599	17
64	0.0232056	0.0229384	638,969	14,656	631,641	10,404,588	16
65	0.0248127	0.0245074	624,313	15,300	616,663	9,772,947	16
66	0.0266307	0.0262792	609,013	16,004	601,011	9,156,284	15
67	0.0286639	0.0282570	593,009	16,756	584,631	8,555,273	14
68	0.0309184	0.0304453	576,253	17,544	567,481	7,970,642	14
69	0.0334059	0.0328541	558,709	18,355	549,532	7,403,161	13
70	0.0361484	0.0355028	540,354	19,184	530,762	6,853,630	13
71	0.0391721	0.0384148	521,170	20,020	511,160	6,322,868	12
72	0.0424992	0.0416087	501,150	20,852	490,724	5,811,708	12
73	0.0461372	0.0450891	480,298	21,656	469,470	5,320,984	11
74	0.0500837	0.0488502	458,642	22,404	447,440	4,851,514	11

x	m_x	q_x	l_x	d_x	L_x	T_x	e_x
75	0.0543282	0.0528788	436,238	23,067	424,705	4,404,074	10
76	0.0588627	0.0571638	413,171	23,618	401,362	3,979,369	10
77	0.0636898	0.0617040	389,553	24,036	377,535	3,578,007	9
78	0.0688438	0.0665275	365,517	24,316	353,359	3,200,472	9
79	0.0743853	0.0716861	341,201	24,459	328,972	2,847,113	8
80	0.0803907	0.0772442	316,742	24,466	304,509	2,518,142	8
81	0.0869221	0.0832515	292,276	24,332	280,110	2,213,633	8
82	0.0940031	0.0897201	267,944	24,039	255,925	1,933,523	7
83	0.1015679	0.0965802	243,905	23,556	232,127	1,677,598	7
84	0.1094622	0.1036839	220,349	22,846	208,926	1,445,471	7
85	0.1174620	0.1108257	197,503	21,888	186,559	1,236,545	6
86	0.1253624	0.1178229	175,615	20,691	165,270	1,049,986	6
87	0.1330196	0.1245521	154,924	19,296	145,276	884,717	6
88	0.1404252	0.1310114	135,628	17,768	126,744	739,441	5
89	0.1476724	0.1372863	117,860	16,180	109,770	612,697	5
90	0.1549630	0.1435531	101,680	14,596	94,382	502,927	5
91	0.1596450	0.1475536	87,084	12,849	80,660	408,545	5
92	0.1653411	0.1523955	74,235	11,313	68,579	327,885	4
93	0.1766556	0.1619317	62,922	10,189	57,828	259,307	4
94	0.1856083	0.1694012	52,733	8,933	48,267	201,479	4
95	0.1952861	0.1774007	43,800	7,770	39,915	153,213	3
96	0.1999203	0.1812040	36,030	6,528	32,766	113,298	3
97	0.2069126	0.1869093	29,502	5,514	26,745	80,532	3
98	0.2063450	0.1864477	23,988	4,472	21,752	53,787	2
99	0.2082213	0.1879727	19,516	3,668	17,682	32,035	2
100	0.2091743	0.1887461	15,848	2,991	14,353	14,353	1

G) PRE-RETIREMENT PENSIONS (MALES & FEMALES)

a. Male Life Table

x	m_x	q_x	l_x	d_x	L_x	T_x	e_x
20	0.0004888	0.0004887	1,000,000	488	999,756	65,753,108	66
21	0.0005421	0.0005420	999,512	541	999,242	64,753,352	65
22	0.0005999	0.0005997	998,971	599	998,672	63,754,110	64
23	0.0006622	0.0006620	998,372	660	998,042	62,755,439	63
24	0.0007293	0.0007290	997,712	727	997,349	61,757,397	62
25	0.0008013	0.0008010	996,985	798	996,586	60,760,048	61
26	0.0008784	0.0008780	996,187	874	995,750	59,763,462	60
27	0.0009606	0.0009601	995,313	955	994,836	58,767,712	59
28	0.0010481	0.0010476	994,358	1,041	993,838	57,772,877	58
29	0.0011409	0.0011402	993,317	1,132	992,751	56,779,039	57
30	0.0012390	0.0012382	992,185	1,228	991,571	55,786,288	56
31	0.0013424	0.0013415	990,957	1,329	990,293	54,794,717	55
32	0.0014510	0.0014500	989,628	1,434	988,911	53,804,425	54
33	0.0015648	0.0015636	988,194	1,545	987,422	52,815,514	53
34	0.0016835	0.0016821	986,649	1,659	985,820	51,828,092	53
35	0.0018071	0.0018054	984,990	1,778	984,101	50,842,273	52
36	0.0019351	0.0019332	983,212	1,900	982,262	49,858,172	51
37	0.0020674	0.0020653	981,312	2,026	980,299	48,875,910	50
38	0.0022036	0.0022012	979,286	2,155	978,209	47,895,611	49
39	0.0023433	0.0023405	977,131	2,287	975,988	46,917,402	48
40	0.0024860	0.0024829	974,844	2,420	973,634	45,941,415	47
41	0.0026312	0.0026278	972,424	2,555	971,147	44,967,781	46
42	0.0027785	0.0027746	969,869	2,691	968,524	43,996,634	45
43	0.0029271	0.0029228	967,178	2,826	965,765	43,028,111	44
44	0.0030765	0.0030717	964,352	2,962	962,871	42,062,346	44
45	0.0032259	0.0032207	961,390	3,096	959,842	41,099,475	43

x	m_x	q_x	l_x	d_x	L_x	T_x	e_x
46	0.0033747	0.0033690	958,294	3,228	956,680	40,139,633	42
47	0.0035222	0.0035160	955,066	3,357	953,388	39,182,953	41
48	0.0036675	0.0036607	951,709	3,483	949,968	38,229,565	40
49	0.0038098	0.0038026	948,226	3,605	946,424	37,279,598	39
50	0.0039485	0.0039407	944,621	3,722	942,760	36,333,174	38
51	0.0040827	0.0040743	940,899	3,833	938,983	35,390,414	38
52	0.0042115	0.0042027	937,066	3,938	935,097	34,451,432	37
53	0.0043343	0.0043249	933,128	4,035	931,111	33,516,335	36
54	0.0044503	0.0044404	929,093	4,125	927,031	32,585,224	35
55	0.0045586	0.0045483	924,968	4,207	922,865	31,658,194	34
56	0.0046588	0.0046479	920,761	4,279	918,622	30,735,329	33
57	0.0047500	0.0047387	916,482	4,342	914,311	29,816,708	33
58	0.0048317	0.0048200	912,140	4,396	909,942	28,902,397	32
59	0.0049033	0.0048913	907,744	4,440	905,524	27,992,455	31
60	0.0049644	0.0049521	903,304	4,473	901,068	27,086,931	30
61	0.0050145	0.0050019	898,831	4,495	896,584	26,185,863	29
62	0.0050769	0.0050641	894,336	4,528	892,072	25,289,280	28
63	0.0051402	0.0051270	889,808	4,562	887,527	24,397,208	27
64	0.0052042	0.0051907	885,246	4,595	882,949	23,509,681	27
65	0.0052690	0.0052551	880,651	4,627	878,338	22,626,732	26
66	0.0053735	0.0053591	876,024	4,694	873,677	21,748,395	25
67	0.0055200	0.0055047	871,330	4,796	868,932	20,874,718	24
68	0.0057117	0.0056954	866,534	4,935	864,067	20,005,786	23
69	0.0059532	0.0059355	861,599	5,114	859,042	19,141,719	22
70	0.0062501	0.0062306	856,485	5,336	853,817	18,282,677	21

b. Female Life Table

x	m_x	q_x	l_x	d_x	L_x	T_x	e_x
20	0.0017944	0.0017928	1,000,000	1,792	999,104	66,020,981	66
21	0.0019958	0.0019938	998,208	1,990	997,213	65,021,877	65
22	0.0018994	0.0018976	996,218	1,890	995,273	64,024,664	64
23	0.0016092	0.0016079	994,328	1,598	993,529	63,029,391	63
24	0.0012810	0.0012802	992,730	1,270	992,095	62,035,862	62
25	0.0010264	0.0010259	991,460	1,017	990,952	61,043,767	62
26	0.0008849	0.0008845	990,443	876	990,005	60,052,815	61
27	0.0008455	0.0008451	989,567	836	989,149	59,062,810	60
28	0.0008796	0.0008792	988,731	869	988,297	58,073,661	59
29	0.0009609	0.0009604	987,862	948	987,388	57,085,365	58
30	0.0010719	0.0010713	986,914	1,057	986,386	56,097,977	57
31	0.0012029	0.0012021	985,857	1,185	985,265	55,111,591	56
32	0.0013489	0.0013480	984,672	1,327	984,009	54,126,327	55
33	0.0015076	0.0015064	983,345	1,481	982,605	53,142,318	54
34	0.0016772	0.0016758	981,864	1,645	981,042	52,159,714	53
35	0.0018565	0.0018548	980,219	1,818	979,310	51,178,672	52
36	0.0020437	0.0020416	978,401	1,997	977,403	50,199,362	51
37	0.0022370	0.0022345	976,404	2,181	975,314	49,221,960	50
38	0.0024343	0.0024313	974,223	2,368	973,039	48,246,646	50
39	0.0026333	0.0026299	971,855	2,555	970,578	47,273,607	49
40	0.0028317	0.0028277	969,300	2,740	967,930	46,303,030	48
41	0.0030271	0.0030225	966,560	2,921	965,100	45,335,100	47
42	0.0032173	0.0032122	963,639	3,095	962,092	44,370,000	46
43	0.0034004	0.0033947	960,544	3,260	958,914	43,407,909	45
44	0.0035748	0.0035684	957,284	3,415	955,577	42,448,995	44
45	0.003739	0.0037320	953,869	3,559	952,090	41,493,418	44
46	0.0038923	0.0038847	950,310	3,691	948,465	40,541,329	43
47	0.0040339	0.0040258	946,619	3,810	944,714	39,592,864	42

x	m_x	q_x	l_x	d_x	L_x	T_x	e_x
48	0.0041638	0.0041551	942,809	3,917	940,851	38,648,150	41
49	0.0042819	0.0042727	938,892	4,011	936,887	37,707,300	40
50	0.0043886	0.0043789	934,881	4,093	932,835	36,770,413	39
51	0.0044843	0.0044742	930,788	4,164	928,706	35,837,579	39
52	0.0045697	0.0045593	926,624	4,224	924,512	34,908,873	38
53	0.0046455	0.0046347	922,400	4,275	920,263	33,984,361	37
54	0.0047125	0.0047014	918,125	4,316	915,967	33,064,098	36
55	0.0047715	0.0047601	913,809	4,349	911,635	32,148,131	35
56	0.0048232	0.0048116	909,460	4,375	907,273	31,236,497	34
57	0.0048684	0.0048565	905,085	4,395	902,888	30,329,224	34
58	0.0049078	0.0048958	900,690	4,409	898,486	29,426,337	33
59	0.0049421	0.0049299	896,281	4,418	894,072	28,527,851	32
60	0.0049718	0.0049595	891,863	4,423	889,652	27,633,779	31
61	0.0049976	0.0049852	887,440	4,424	885,228	26,744,128	30
62	0.0050277	0.0050151	883,016	4,428	880,802	25,858,900	29
63	0.0050580	0.0050452	878,588	4,432	876,372	24,978,098	28
64	0.0050885	0.0050755	874,156	4,436	871,938	24,101,726	28
65	0.0051191	0.0051060	869,720	4,440	867,500	23,229,788	27
66	0.0051867	0.0051733	865,280	4,476	863,042	22,362,288	26
67	0.0052927	0.0052787	860,804	4,543	858,533	21,499,246	25
68	0.0054393	0.0054246	856,261	4,644	853,939	20,640,713	24
69	0.0056300	0.0056141	851,617	4,781	849,227	19,786,774	23
70	0.0058689	0.0058517	846,836	4,955	844,359	18,937,548	22

H) POST-RETIREMENT PENSIONS MALE LIFE TABLES

a. Life Table

x	m_x	q_x	l_x	d_x	L_x	T_x	e_x
50	0.0123847	0.0123083	1,000,000	12,308	993,846	29,298,537	29
51	0.0128787	0.0127961	987,692	12,638	981,373	28,304,691	29
52	0.0133924	0.0133031	975,054	12,971	968,569	27,323,318	28
53	0.0139267	0.0138301	962,083	13,305	955,431	26,354,749	27
54	0.0144822	0.0143778	948,778	13,641	941,958	25,399,319	27
55	0.0150599	0.0149470	935,137	13,977	928,149	24,457,361	26
56	0.0156606	0.0155386	921,160	14,313	914,004	23,529,213	26
57	0.0162853	0.0161534	906,847	14,648	899,523	22,615,209	25
58	0.0169349	0.0167924	892,199	14,982	884,708	21,715,686	24
59	0.0176105	0.0174563	877,217	15,312	869,561	20,830,978	24
60	0.0183130	0.0181463	861,905	15,640	854,085	19,961,417	23
61	0.0190435	0.0188633	846,265	15,963	838,284	19,107,332	23
62	0.0198031	0.0196083	830,302	16,280	822,162	18,269,049	22
63	0.0205931	0.0203825	814,022	16,591	805,727	17,446,887	21
64	0.0214145	0.0211869	797,431	16,895	788,984	16,641,160	21
65	0.0222687	0.0220226	780,536	17,189	771,942	15,852,177	20
66	0.0231571	0.0228910	763,347	17,473	754,611	15,080,235	20
67	0.0240808	0.0237932	745,874	17,746	737,001	14,325,625	19
68	0.0250414	0.0247304	728,128	18,006	719,125	13,588,624	19
69	0.0260403	0.0257041	710,122	18,253	700,996	12,869,499	18
70	0.0270790	0.0267157	691,869	18,483	682,628	12,168,503	18
71	0.0281592	0.0277664	673,386	18,697	664,038	11,485,876	17
72	0.0292825	0.0288579	654,689	18,892	645,243	10,821,838	17
73	0.0304506	0.0299916	635,797	19,068	626,263	10,176,595	16
74	0.0316652	0.0311691	616,729	19,222	607,118	9,550,332	15
75	0.0329284	0.0323921	597,507	19,354	587,830	8,943,214	15

x	m_x	q_x	l_x	d_x	L_x	T_x	e_x
76	0.0342419	0.0336623	578,153	19,461	568,423	8,355,384	14
77	0.0356078	0.0349813	558,692	19,543	548,921	7,786,962	14
78	0.0370282	0.0363510	539,149	19,598	529,350	7,238,041	13
79	0.0385052	0.0377733	519,551	19,625	509,739	6,708,691	13
80	0.0400412	0.0392502	499,926	19,622	490,115	6,198,953	12
81	0.0416385	0.0407835	480,304	19,588	470,510	5,708,838	12
82	0.0432994	0.0423754	460,716	19,523	450,955	5,238,328	11
83	0.0450266	0.0440280	441,193	19,424	431,481	4,787,373	11
84	0.0468228	0.0457435	421,769	19,293	412,123	4,355,892	10
85	0.0486905	0.0475241	402,476	19,127	392,913	3,943,770	10
86	0.0506328	0.0493723	383,349	18,926	373,886	3,550,857	9
87	0.0526525	0.0512904	364,423	18,691	355,078	3,176,971	9
88	0.0547528	0.0532809	345,732	18,420	336,522	2,821,894	8
89	0.0569369	0.0553464	327,312	18,115	318,255	2,485,372	8
90	0.0592082	0.0574894	309,197	17,775	300,310	2,167,117	7
91	0.0615700	0.0597129	291,422	17,401	282,722	1,866,808	6
92	0.0640260	0.0620194	274,021	16,994	265,524	1,584,086	6
93	0.0772501	0.0743417	257,027	19,107	247,474	1,318,562	5
94	0.0937018	0.0894457	237,920	21,280	227,280	1,071,089	5
95	0.1142620	0.1079758	216,640	23,391	204,945	843,809	4
96	0.1400753	0.1307072	193,249	25,259	180,620	638,864	3
97	0.1726341	0.1585546	167,990	26,635	154,673	458,245	3
98	0.2138934	0.1925655	141,355	27,220	127,745	303,572	2
99	0.2664241	0.2338859	114,135	26,694	100,788	175,827	2
100	0.3336225	0.2836759	87,441	24,804	75,039	75,039	1

b. Annuity Functions

i. $\ddot{a}_{x:\overline{n}|}$ for $i = 1\%$

Age/Term	5	10	15	20	30	40	50
50	4.77930	9.00866	12.69330	15.84293	20.61050	23.55087	24.97761
51	4.77451	8.98744	12.64490	15.75800	20.43271	23.27257	---
52	4.76953	8.96545	12.59487	15.67043	20.25055	22.98961	---
53	4.76436	8.94267	12.54316	15.58017	20.06403	22.70215	---
54	4.75899	8.91907	12.48973	15.48716	19.87313	22.41033	---
55	4.75342	8.89462	12.43453	15.39137	19.67790	22.11246	---
56	4.74764	8.86931	12.37753	15.29275	19.47832	21.80667	---
57	4.74164	8.84311	12.31867	15.19123	19.27443	21.49098	---
58	4.73542	8.81597	12.25792	15.08679	19.06628	21.16340	---
59	4.72896	8.78790	12.19523	14.97940	18.85391	20.82216	---
60	4.72225	8.75884	12.13055	14.86898	18.63737	20.46589	---
61	4.71529	8.72878	12.06386	14.75553	18.41675	---	---
62	4.70808	8.69768	11.99511	14.63901	18.19212	---	---
63	4.70059	8.66552	11.92424	14.51938	17.96356	---	---
64	4.69282	8.63227	11.85123	14.39663	17.73119	---	---
65	4.68477	8.59790	11.77604	14.27074	17.49268	---	---
66	4.67641	8.56237	11.69863	14.14170	17.24537	---	---
67	4.66775	8.52566	11.61897	14.00948	16.98635	---	---
68	4.65877	8.48774	11.53701	13.87409	16.71261	---	---
69	4.64946	8.44857	11.45273	13.73553	16.42129	---	---
70	4.63981	8.40815	11.36612	13.59382	16.11004	---	---
71	4.62980	8.36641	11.27712	13.44896	---	---	---
72	4.61944	8.32335	11.18573	13.30098	---	---	---
73	4.60870	8.27892	11.09191	13.14991	---	---	---
74	4.59757	8.23310	10.99567	12.99578	---	---	---

Age/Term	5	10	15	20	30	40	50
75	4.58604	8.18587	10.89696	12.83510	---	---	---
76	4.57410	8.13719	10.79581	12.66376	---	---	---
77	4.56173	8.08704	10.69219	12.47706	---	---	---
78	4.54893	8.03539	10.58610	12.26992	---	---	---
79	4.53567	7.98222	10.47755	12.03719	---	---	---
80	4.52195	7.92752	10.36212	11.77414	---	---	---
81	4.50776	7.87124	10.23444	---	---	---	---
82	4.49307	7.81338	10.08823	---	---	---	---
83	4.47788	7.75391	9.91654	---	---	---	---
84	4.46216	7.69280	9.71202	---	---	---	---
85	4.44592	7.62426	9.46764	---	---	---	---
86	4.42913	7.54104	---	---	---	---	---
87	4.41177	7.43442	---	---	---	---	---
88	4.39383	7.29437	---	---	---	---	---
89	4.37530	7.10996	---	---	---	---	---
90	4.34823	6.87011	---	---	---	---	---
91	4.30236	---	---	---	---	---	---
92	4.22490	---	---	---	---	---	---
93	4.10059	---	---	---	---	---	---
94	3.95404	---	---	---	---	---	---
95	3.78293	---	---	---	---	---	---
96	---	---	---	---	---	---	---
97	---	---	---	---	---	---	---
98	---	---	---	---	---	---	---
99	---	---	---	---	---	---	---
100	---	---	---	---	---	---	---

ii. $\ddot{a}_{x:\overline{n}|}$ for $i = 2\%$

Age/Term	5	10	15	20	30	40	50
50	4.68863	8.63854	11.91453	14.58047	18.33971	20.44320	21.37186
51	4.68398	8.61860	11.87047	14.50553	18.19193	20.22382	---
52	4.67914	8.59792	11.82492	14.42825	18.04044	20.00051	---
53	4.67413	8.57651	11.77784	14.34859	17.88524	19.77338	---
54	4.66892	8.55432	11.72918	14.26649	17.72633	19.54252	---
55	4.66351	8.53134	11.67891	14.18192	17.56370	19.30680	---
56	4.65790	8.50755	11.62700	14.09482	17.39736	19.06490	---
57	4.65207	8.48291	11.57338	14.00516	17.22733	18.81547	---
58	4.64602	8.45740	11.51804	13.91289	17.05363	18.55710	---
59	4.63975	8.43100	11.46093	13.81798	16.87630	18.28853	---
60	4.63324	8.40368	11.40200	13.72039	16.69536	18.00876	---
61	4.62648	8.37541	11.34122	13.62009	16.51088	---	---
62	4.61948	8.34617	11.27856	13.51705	16.32291	---	---
63	4.61220	8.31593	11.21397	13.41124	16.13151	---	---
64	4.60466	8.28465	11.14741	13.30263	15.93675	---	---
65	4.59684	8.25233	11.07886	13.19122	15.73691	---	---
66	4.58873	8.21892	11.00827	13.07698	15.52995	---	---
67	4.58032	8.18439	10.93562	12.95989	15.31363	---	---
68	4.57160	8.14872	10.86086	12.83996	15.08565	---	---
69	4.56255	8.11187	10.78398	12.71718	14.84376	---	---
70	4.55318	8.07384	10.70495	12.59157	14.58606	---	---
71	4.54347	8.03458	10.62373	12.46312	---	---	---
72	4.53340	7.99406	10.54031	12.33185	---	---	---
73	4.52297	7.95225	10.45466	12.19777	---	---	---
74	4.51216	7.90914	10.36677	12.06094	---	---	---
75	4.50096	7.86469	10.27663	11.91844	---	---	---
76	4.48937	7.81887	10.18423	11.76683	---	---	---
77	4.47736	7.77167	10.08954	11.60215	---	---	---

Age/Term	5	10	15	20	30	40	50
78	4.46492	7.72305	9.99259	11.42006	---	---	---
79	4.45205	7.67300	9.89336	11.21614	---	---	---
80	4.43872	7.62149	9.78801	10.98624	---	---	---
81	4.42494	7.56851	9.67180	---	---	---	---
82	4.41067	7.51401	9.53920	---	---	---	---
83	4.39592	7.45801	9.38398	---	---	---	---
84	4.38065	7.40045	9.19949	---	---	---	---
85	4.36487	7.33605	8.97931	---	---	---	---
86	4.34856	7.25810	---	---	---	---	---
87	4.33170	7.15849	---	---	---	---	---
88	4.31428	7.02783	---	---	---	---	---
89	4.29627	6.85577	---	---	---	---	---
90	4.27006	6.63169	---	---	---	---	---
91	4.22568	---	---	---	---	---	---
92	4.15065	---	---	---	---	---	---
93	4.02996	---	---	---	---	---	---
94	3.88764	---	---	---	---	---	---
95	3.72143	---	---	---	---	---	---
96	---	---	---	---	---	---	---
97	---	---	---	---	---	---	---
98	---	---	---	---	---	---	---
99	---	---	---	---	---	---	---
100	---	---	---	---	---	---	---

iii. $\ddot{a}_{x:\overline{n}|}$ for $i = 3\%$

Age/Term	5	10	15	20	30	40	50
50	4.60143	8.29351	11.21007	13.47070	16.44406	17.95495	18.56236
51	4.59690	8.27474	11.16988	13.40436	16.32040	17.78007	---
52	4.59221	8.25529	11.12832	13.33594	16.19357	17.60186	---
53	4.58733	8.23514	11.08536	13.26540	16.06357	17.42039	---
54	4.58227	8.21426	11.04096	13.19269	15.93039	17.23572	---
55	4.57702	8.19263	10.99509	13.11777	15.79401	17.04706	---
56	4.57157	8.17024	10.94771	13.04060	15.65445	16.85352	---
57	4.56591	8.14705	10.89878	12.96114	15.51170	16.65414	---
58	4.56004	8.12304	10.84826	12.87935	15.36577	16.44794	---
59	4.55394	8.09819	10.79612	12.79521	15.21671	16.23401	---
60	4.54762	8.07247	10.74231	12.70866	15.06450	16.01160	---
61	4.54105	8.04587	10.68682	12.61970	14.90920	---	---
62	4.53425	8.01834	10.62959	12.52828	14.75085	---	---
63	4.52718	7.98987	10.57059	12.43437	14.58948	---	---
64	4.51986	7.96042	10.50979	12.33796	14.42516	---	---
65	4.51226	7.92999	10.44716	12.23903	14.25657	---	---
66	4.50438	7.89853	10.38267	12.13756	14.08216	---	---
67	4.49621	7.86602	10.31627	12.03353	13.90023	---	---
68	4.48774	7.83243	10.24794	11.92693	13.70898	---	---
69	4.47895	7.79773	10.17765	11.81777	13.50664	---	---
70	4.46985	7.76191	10.10539	11.70606	13.29169	---	---
71	4.46041	7.72493	10.03112	11.59177	---	---	---
72	4.45063	7.68677	9.95482	11.47493	---	---	---
73	4.44049	7.64739	9.87647	11.35556	---	---	---
74	4.43000	7.60677	9.79605	11.23367	---	---	---
75	4.41912	7.56490	9.71355	11.10686	---	---	---
76	4.40785	7.52173	9.62897	10.97224	---	---	---
77	4.39618	7.47725	9.54228	10.82645	---	---	---

Age/Term	5	10	15	20	30	40	50
78	4.38410	7.43144	9.45348	10.66581	---	---	---
79	4.37159	7.38427	9.36259	10.48649	---	---	---
80	4.35865	7.33572	9.26623	10.28485	---	---	---
81	4.34525	7.28578	9.16024	---	---	---	---
82	4.33139	7.23441	9.03971	---	---	---	---
83	4.31705	7.18161	8.89907	---	---	---	---
84	4.30222	7.12734	8.73231	---	---	---	---
85	4.28689	7.06675	8.53353	---	---	---	---
86	4.27104	6.99365	---	---	---	---	---
87	4.25465	6.90049	---	---	---	---	---
88	4.23772	6.77847	---	---	---	---	---
89	4.22022	6.61776	---	---	---	---	---
90	4.19482	6.40821	---	---	---	---	---
91	4.15187	---	---	---	---	---	---
92	4.07918	---	---	---	---	---	---
93	3.96195	---	---	---	---	---	---
94	3.82369	---	---	---	---	---	---
95	3.66218	---	---	---	---	---	---
96	---	---	---	---	---	---	---
97	---	---	---	---	---	---	---
98	---	---	---	---	---	---	---
99	---	---	---	---	---	---	---
100	---	---	---	---	---	---	---

iv. $\ddot{a}_{x:\overline{n}|}$ for $i = 4\%$

Age/Term	5	10	15	20	30	40	50
50	4.51750	7.97150	10.57147	12.49182	14.85071	15.94023	16.33943
51	4.51311	7.95381	10.53473	12.43291	14.74654	15.79928	---
52	4.50855	7.93549	10.49673	12.37213	14.63966	15.65549	---
53	4.50381	7.91650	10.45746	12.30946	14.53004	15.50889	---
54	4.49889	7.89683	10.41686	12.24485	14.41767	15.35953	---
55	4.49379	7.87646	10.37492	12.17826	14.30256	15.20687	---
56	4.48849	7.85536	10.33159	12.10966	14.18468	15.05028	---
57	4.48299	7.83351	10.28683	12.03901	14.06403	14.88908	---
58	4.47728	7.81089	10.24062	11.96628	13.94063	14.72258	---
59	4.47136	7.78748	10.19293	11.89144	13.81448	14.55014	---
60	4.46522	7.76325	10.14370	11.81443	13.68559	14.37118	---
61	4.45884	7.73817	10.09292	11.73526	13.55399	---	---
62	4.45222	7.71223	10.04056	11.65389	13.41971	---	---
63	4.44536	7.68540	9.98656	11.57027	13.28276	---	---
64	4.43824	7.65765	9.93090	11.48440	13.14319	---	---
65	4.43086	7.62897	9.87357	11.39627	13.00002	---	---
66	4.42320	7.59931	9.81452	11.30585	12.85205	---	---
67	4.41526	7.56867	9.75371	11.21311	12.69796	---	---
68	4.40702	7.53700	9.69113	11.11806	12.53636	---	---
69	4.39849	7.50430	9.62675	11.02069	12.36587	---	---
70	4.38964	7.47053	9.56055	10.92101	12.18525	---	---
71	4.38047	7.43566	9.49249	10.81899	---	---	---
72	4.37096	7.39967	9.42256	10.71466	---	---	---
73	4.36111	7.36254	9.35073	10.60802	---	---	---
74	4.35091	7.32424	9.27701	10.49909	---	---	---
75	4.34034	7.28475	9.20135	10.38587	---	---	---
76	4.32939	7.24404	9.12376	10.26592	---	---	---
77	4.31804	7.20208	9.04423	10.13640	---	---	---

Age/Term	5	10	15	20	30	40	50
78	4.30630	7.15886	8.96275	9.99417	---	---	---
79	4.29414	7.11436	8.87932	9.83592	---	---	---
80	4.28156	7.06856	8.79100	9.65845	---	---	---
81	4.26854	7.02143	8.69413	---	---	---	---
82	4.25507	6.97295	8.58433	---	---	---	---
83	4.24113	6.92312	8.45662	---	---	---	---
84	4.22671	6.87189	8.30556	---	---	---	---
85	4.21181	6.81483	8.12575	---	---	---	---
86	4.19640	6.74620	---	---	---	---	---
87	4.18047	6.65899	---	---	---	---	---
88	4.16401	6.54490	---	---	---	---	---
89	4.14700	6.39465	---	---	---	---	---
90	4.12239	6.19849	---	---	---	---	---
91	4.08080	---	---	---	---	---	---
92	4.01033	---	---	---	---	---	---
93	3.89643	---	---	---	---	---	---
94	3.76207	---	---	---	---	---	---
95	3.60506	---	---	---	---	---	---
96	---	---	---	---	---	---	---
97	---	---	---	---	---	---	---
98	---	---	---	---	---	---	---
99	---	---	---	---	---	---	---
100	---	---	---	---	---	---	---

v. $\ddot{a}_{x:\overline{n}|}$ for $i = 5\%$

Age/Term	5	10	15	20	30	40	50
50	4.43671	7.67061	9.99133	11.62548	13.50242	14.29113	14.55471
51	4.43244	7.65394	9.95768	11.57299	13.41410	14.17628	---
52	4.42800	7.63666	9.92288	11.51883	13.32342	14.05899	---
53	4.42340	7.61876	9.88691	11.46297	13.23039	13.93929	---
54	4.41862	7.60021	9.84971	11.40537	13.13497	13.81718	---
55	4.41366	7.58099	9.81128	11.34600	13.03716	13.69230	---
56	4.40851	7.56109	9.77158	11.28483	12.93694	13.56421	---
57	4.40316	7.54049	9.73056	11.22181	12.83431	13.43242	---
58	4.39761	7.51915	9.68821	11.15692	12.72926	13.29644	---
59	4.39186	7.49707	9.64449	11.09013	12.62182	13.15581	---
60	4.38588	7.47421	9.59937	11.02140	12.51196	13.01010	---
61	4.37968	7.45056	9.55281	10.95072	12.39971	---	---
62	4.37325	7.42609	9.50479	10.87804	12.28509	---	---
63	4.36658	7.40077	9.45528	10.80335	12.16811	---	---
64	4.35965	7.37459	9.40423	10.72663	12.04880	---	---
65	4.35248	7.34753	9.35164	10.64787	11.92641	---	---
66	4.34503	7.31955	9.29747	10.56702	11.80002	---	---
67	4.33731	7.29063	9.24167	10.48409	11.66862	---	---
68	4.32931	7.26075	9.18424	10.39906	11.53112	---	---
69	4.32101	7.22989	9.12515	10.31192	11.38641	---	---
70	4.31241	7.19802	9.06438	10.22269	11.23353	---	---
71	4.30349	7.16511	9.00189	10.13133	---	---	---
72	4.29425	7.13115	8.93767	10.03787	---	---	---
73	4.28467	7.09609	8.87170	9.94229	---	---	---
74	4.27475	7.05994	8.80396	9.84463	---	---	---
75	4.26447	7.02265	8.73445	9.74320	---	---	---
76	4.25383	6.98421	8.66314	9.63597	---	---	---
77	4.24280	6.94460	8.59003	9.52051	---	---	---

Age/Term	5	10	15	20	30	40	50
78	4.23138	6.90379	8.51510	9.39413	---	---	---
79	4.21956	6.86176	8.43837	9.25397	---	---	---
80	4.20732	6.81850	8.35726	9.09723	---	---	---
81	4.19466	6.77398	8.26853	---	---	---	---
82	4.18156	6.72819	8.16829	---	---	---	---
83	4.16801	6.68110	8.05208	---	---	---	---
84	4.15399	6.63270	7.91496	---	---	---	---
85	4.13950	6.57890	7.75199	---	---	---	---
86	4.12452	6.51440	---	---	---	---	---
87	4.10902	6.43266	---	---	---	---	---
88	4.09302	6.32589	---	---	---	---	---
89	4.07648	6.18528	---	---	---	---	---
90	4.05261	6.00147	---	---	---	---	---
91	4.01233	---	---	---	---	---	---
92	3.94399	---	---	---	---	---	---
93	3.83329	---	---	---	---	---	---
94	3.70265	---	---	---	---	---	---
95	3.54997	---	---	---	---	---	---
96	---	---	---	---	---	---	---
97	---	---	---	---	---	---	---
98	---	---	---	---	---	---	---
99	---	---	---	---	---	---	---
100	---	---	---	---	---	---	---

vi. $\ddot{a}_{x:\overline{n}|}$ for $i = 6\%$

Age/Term	5	10	15	20	30	40	50
50	4.35888	7.38916	9.46323	10.85620	12.35397	12.92707	13.10191
51	4.35473	7.37342	9.43235	10.80928	12.27860	12.83251	---
52	4.35042	7.35711	9.40041	10.76087	12.20118	12.73582	---
53	4.34594	7.34021	9.36739	10.71092	12.12171	12.63704	---
54	4.34129	7.32270	9.33325	10.65941	12.04016	12.53617	---
55	4.33647	7.30456	9.29797	10.60631	11.95651	12.43293	---
56	4.33146	7.28577	9.26151	10.55158	11.87076	12.32703	---
57	4.32626	7.26632	9.22385	10.49519	11.78290	12.21812	---
58	4.32087	7.24617	9.18496	10.43711	11.69291	12.10583	---
59	4.31527	7.22533	9.14481	10.37733	11.60080	11.98985	---
60	4.30946	7.20374	9.10336	10.31578	11.50656	11.86984	---
61	4.30343	7.18141	9.06060	10.25247	11.41021	---	---
62	4.29718	7.15830	9.01648	10.18737	11.31175	---	---
63	4.29069	7.13439	8.97098	10.12044	11.21118	---	---
64	4.28395	7.10967	8.92408	10.05167	11.10854	---	---
65	4.27698	7.08411	8.87574	9.98105	11.00324	---	---
66	4.26974	7.05768	8.82594	9.90855	10.89458	---	---
67	4.26223	7.03037	8.77465	9.83415	10.78177	---	---
68	4.25444	7.00215	8.72184	9.75784	10.66396	---	---
69	4.24637	6.97299	8.66749	9.67961	10.54028	---	---
70	4.23800	6.94288	8.61160	9.59948	10.40994	---	---
71	4.22933	6.91179	8.55411	9.51740	---	---	---
72	4.22035	6.87970	8.49502	9.43341	---	---	---
73	4.21103	6.84658	8.43431	9.34749	---	---	---
74	4.20138	6.81241	8.37196	9.25965	---	---	---
75	4.19138	6.77717	8.30796	9.16850	---	---	---
76	4.18103	6.74084	8.24229	9.07230	---	---	---
77	4.17030	6.70340	8.17495	8.96902	---	---	---

Age/Term	5	10	15	20	30	40	50
78	4.15920	6.66482	8.10592	8.85634	---	---	---
79	4.14770	6.62509	8.03522	8.73177	---	---	---
80	4.13580	6.58419	7.96057	8.59286	---	---	---
81	4.12348	6.54210	7.87912	---	---	---	---
82	4.11074	6.49879	7.78742	---	---	---	---
83	4.09756	6.45426	7.68145	---	---	---	---
84	4.08392	6.40848	7.55674	---	---	---	---
85	4.06982	6.35770	7.40873	---	---	---	---
86	4.05525	6.29702	---	---	---	---	---
87	4.04018	6.22032	---	---	---	---	---
88	4.02461	6.12030	---	---	---	---	---
89	4.00851	5.98858	---	---	---	---	---
90	3.98536	5.81619	---	---	---	---	---
91	3.94633	---	---	---	---	---	---
92	3.88004	---	---	---	---	---	---
93	3.77240	---	---	---	---	---	---
94	3.64535	---	---	---	---	---	---
95	3.49682	---	---	---	---	---	---
96	---	---	---	---	---	---	---
97	---	---	---	---	---	---	---
98	---	---	---	---	---	---	---
99	---	---	---	---	---	---	---
100	---	---	---	---	---	---	---

vii. $\ddot{a}_{x:\overline{n}|}$ for $i = 7\%$

Age/Term	5	10	15	20	30	40	50
50	4.28389	7.12559	8.98151	10.17089	11.36946	11.78744	11.90393
51	4.27985	7.11072	8.95311	10.12882	11.30474	11.70876	---
52	4.27566	7.09531	8.92374	10.08541	11.23822	11.62825	---
53	4.27130	7.07934	8.89338	10.04061	11.16990	11.54590	---
54	4.26678	7.06279	8.86198	9.99440	11.09976	11.46171	---
55	4.26209	7.04565	8.82953	9.94676	11.02778	11.37550	---
56	4.25721	7.02790	8.79599	9.89764	10.95394	11.28704	---
57	4.25216	7.00951	8.76135	9.84702	10.87824	11.19609	---
58	4.24691	6.99048	8.72557	9.79488	10.80067	11.10239	---
59	4.24146	6.97077	8.68862	9.74119	10.72121	11.00569	---
60	4.23581	6.95037	8.65048	9.68591	10.63987	10.90574	---
61	4.22995	6.92926	8.61112	9.62904	10.55664	---	---
62	4.22386	6.90742	8.57051	9.57053	10.47154	---	---
63	4.21755	6.88482	8.52862	9.51037	10.38455	---	---
64	4.21100	6.86144	8.48543	9.44853	10.29569	---	---
65	4.20421	6.83728	8.44093	9.38502	10.20453	---	---
66	4.19717	6.81230	8.39506	9.31979	10.11051	---	---
67	4.18986	6.78647	8.34781	9.25283	10.01303	---	---
68	4.18229	6.75978	8.29916	9.18414	9.91141	---	---
69	4.17443	6.73221	8.24909	9.11370	9.80497	---	---
70	4.16630	6.70374	8.19758	9.04151	9.69306	---	---
71	4.15786	6.67434	8.14459	8.96755	---	---	---
72	4.14912	6.64398	8.09011	8.89183	---	---	---
73	4.14005	6.61266	8.03413	8.81434	---	---	---
74	4.13067	6.58034	7.97663	8.73510	---	---	---
75	4.12094	6.54700	7.91759	8.65292	---	---	---
76	4.11086	6.51263	7.85701	8.56635	---	---	---
77	4.10043	6.47721	7.79486	8.47365	---	---	---

Age/Term	5	10	15	20	30	40	50
78	4.08962	6.44070	7.73115	8.37282	---	---	---
79	4.07843	6.40310	7.66587	8.26173	---	---	---
80	4.06685	6.36440	7.59703	8.13820	---	---	---
81	4.05487	6.32456	7.52213	---	---	---	---
82	4.04247	6.28356	7.43805	---	---	---	---
83	4.02965	6.24141	7.34121	---	---	---	---
84	4.01637	6.19807	7.22755	---	---	---	---
85	4.00265	6.15009	7.09288	---	---	---	---
86	3.98847	6.09293	---	---	---	---	---
87	3.97380	6.02089	---	---	---	---	---
88	3.95865	5.92709	---	---	---	---	---
89	3.94299	5.80359	---	---	---	---	---
90	3.92052	5.64175	---	---	---	---	---
91	3.88269	---	---	---	---	---	---
92	3.81837	---	---	---	---	---	---
93	3.71366	---	---	---	---	---	---
94	3.59006	---	---	---	---	---	---
95	3.44551	---	---	---	---	---	---
96	---	---	---	---	---	---	---
97	---	---	---	---	---	---	---
98	---	---	---	---	---	---	---
99	---	---	---	---	---	---	---
100	---	---	---	---	---	---	---

viii. $\ddot{a}_{x:\overline{n}|}$ for $i = 8\%$

Age/Term	5	10	15	20	30	40	50
50	4.21159	6.87851	8.54122	9.55844	10.52023	10.82616	10.90412
51	4.20766	6.86445	8.51506	9.52060	10.46429	10.76006	---
52	4.20358	6.84987	8.48801	9.48155	10.40679	10.69235	---
53	4.19934	6.83476	8.46003	9.44125	10.34770	10.62303	---
54	4.19494	6.81911	8.43109	9.39967	10.28700	10.55208	---
55	4.19038	6.80290	8.40119	9.35679	10.22467	10.47938	---
56	4.18563	6.78610	8.37029	9.31257	10.16071	10.40476	---
57	4.18071	6.76871	8.33835	9.26700	10.09509	10.32804	---
58	4.17561	6.75070	8.30537	9.22004	10.02780	10.24905	---
59	4.17031	6.73206	8.27131	9.17168	9.95884	10.16758	---
60	4.16481	6.71276	8.23614	9.12188	9.88820	10.08347	---
61	4.15910	6.69278	8.19984	9.07062	9.81587	---	---
62	4.15318	6.67212	8.16240	9.01788	9.74186	---	---
63	4.14703	6.65073	8.12376	8.96364	9.66616	---	---
64	4.14066	6.62861	8.08392	8.90787	9.58877	---	---
65	4.13405	6.60575	8.04286	8.85057	9.50937	---	---
66	4.12720	6.58210	8.00054	8.79171	9.42752	---	---
67	4.12009	6.55766	7.95693	8.73127	9.34275	---	---
68	4.11272	6.53240	7.91203	8.66924	9.25453	---	---
69	4.10508	6.50630	7.86580	8.60561	9.16231	---	---
70	4.09716	6.47935	7.81824	8.54038	9.06556	---	---
71	4.08894	6.45152	7.76931	8.47353	---	---	---
72	4.08043	6.42278	7.71900	8.40507	---	---	---
73	4.07161	6.39312	7.66728	8.33497	---	---	---
74	4.06248	6.36252	7.61415	8.26326	---	---	---
75	4.05301	6.33096	7.55959	8.18894	---	---	---
76	4.04320	6.29841	7.50359	8.11079	---	---	---
77	4.03305	6.26486	7.44613	8.02731	---	---	---

Age/Term	5	10	15	20	30	40	50
78	4.02253	6.23028	7.38721	7.93679	---	---	---
79	4.01164	6.19467	7.32682	7.83737	---	---	---
80	4.00037	6.15800	7.26323	7.72714	---	---	---
81	3.98870	6.12025	7.19419	---	---	---	---
82	3.97663	6.08141	7.11696	---	---	---	---
83	3.96415	6.04147	7.02828	---	---	---	---
84	3.95123	6.00039	6.92449	---	---	---	---
85	3.93787	5.95502	6.80171	---	---	---	---
86	3.92407	5.90113	---	---	---	---	---
87	3.90979	5.83339	---	---	---	---	---
88	3.89504	5.74534	---	---	---	---	---
89	3.87979	5.62942	---	---	---	---	---
90	3.85798	5.47736	---	---	---	---	---
91	3.82130	---	---	---	---	---	---
92	3.75886	---	---	---	---	---	---
93	3.65698	---	---	---	---	---	---
94	3.53669	---	---	---	---	---	---
95	3.39597	---	---	---	---	---	---
96	---	---	---	---	---	---	---
97	---	---	---	---	---	---	---
98	---	---	---	---	---	---	---
99	---	---	---	---	---	---	---
100	---	---	---	---	---	---	---

ix. $\ddot{a}_{x:\overline{n}|}$ for $i = 9\%$

Age/Term	5	10	15	20	30	40	50
50	4.14187	6.64663	8.13801	9.00939	9.78325	10.00797	10.06036
51	4.13804	6.63332	8.11387	8.97526	9.73463	9.95191	---
52	4.13407	6.61952	8.08890	8.94002	9.68461	9.89442	---
53	4.12994	6.60522	8.06307	8.90366	9.63320	9.83551	---
54	4.12566	6.59040	8.03636	8.86613	9.58035	9.77516	---
55	4.12121	6.57505	8.00876	8.82742	9.52606	9.71328	---
56	4.11660	6.55914	7.98022	8.78750	9.47031	9.64975	---
57	4.11181	6.54268	7.95073	8.74634	9.41309	9.58443	---
58	4.10683	6.52562	7.92027	8.70393	9.35438	9.51718	---
59	4.10168	6.50797	7.88881	8.66023	9.29418	9.44788	---
60	4.09632	6.48969	7.85633	8.61523	9.23246	9.37637	---
61	4.09076	6.47077	7.82280	8.56890	9.16924	---	---
62	4.08500	6.45120	7.78820	8.52122	9.10450	---	---
63	4.07902	6.43094	7.75250	8.47216	9.03824	---	---
64	4.07281	6.40999	7.71568	8.42171	8.97045	---	---
65	4.06638	6.38833	7.67772	8.36986	8.90088	---	---
66	4.05971	6.36594	7.63860	8.31659	8.82920	---	---
67	4.05279	6.34278	7.59829	8.26187	8.75503	---	---
68	4.04561	6.31885	7.55677	8.20569	8.67795	---	---
69	4.03817	6.29413	7.51401	8.14805	8.59753	---	---
70	4.03046	6.26859	7.47002	8.08893	8.51334	---	---
71	4.02247	6.24221	7.42475	8.02833	---	---	---
72	4.01418	6.21499	7.37819	7.96623	---	---	---
73	4.00559	6.18688	7.33032	7.90264	---	---	---
74	3.99670	6.15787	7.28114	7.83756	---	---	---
75	3.98748	6.12796	7.23062	7.77014	---	---	---
76	3.97793	6.09710	7.17876	7.69937	---	---	---
77	3.96804	6.06530	7.12554	7.62394	---	---	---

Age/Term	5	10	15	20	30	40	50
78	3.95780	6.03252	7.07095	7.54241	---	---	---
79	3.94720	5.99875	7.01499	7.45314	---	---	---
80	3.93622	5.96398	6.95613	7.35445	---	---	---
81	3.92487	5.92818	6.89238	---	---	---	---
82	3.91311	5.89135	6.82128	---	---	---	---
83	3.90096	5.85346	6.73992	---	---	---	---
84	3.88838	5.81449	6.64494	---	---	---	---
85	3.87537	5.77153	6.53279	---	---	---	---
86	3.86193	5.72067	---	---	---	---	---
87	3.84802	5.65692	---	---	---	---	---
88	3.83366	5.57418	---	---	---	---	---
89	3.81881	5.46529	---	---	---	---	---
90	3.79763	5.32228	---	---	---	---	---
91	3.76205	---	---	---	---	---	---
92	3.70142	---	---	---	---	---	---
93	3.60225	---	---	---	---	---	---
94	3.48514	---	---	---	---	---	---
95	3.34811	---	---	---	---	---	---
96	---	---	---	---	---	---	---
97	---	---	---	---	---	---	---
98	---	---	---	---	---	---	---
99	---	---	---	---	---	---	---
100	---	---	---	---	---	---	---

x. $\ddot{a}_{x:\overline{n}|}$ for $i = 10\%$

Age/Term	5	10	15	20	30	40	50
50	4.07459	6.42880	7.76806	8.51568	9.13997	9.30561	9.34097
51	4.07086	6.41619	7.74574	8.48480	9.09745	9.25762	---
52	4.06699	6.40311	7.72264	8.45292	9.05370	9.20838	---
53	4.06297	6.38955	7.69876	8.42000	9.00870	9.15788	---
54	4.05880	6.37551	7.67406	8.38603	8.96242	9.10609	---
55	4.05447	6.36096	7.64852	8.35098	8.91486	9.05295	---
56	4.04998	6.34589	7.62213	8.31483	8.86599	8.99837	---
57	4.04532	6.33028	7.59485	8.27756	8.81581	8.94225	---
58	4.04047	6.31412	7.56667	8.23913	8.76429	8.88449	---
59	4.03545	6.29738	7.53756	8.19954	8.71143	8.82498	---
60	4.03024	6.28005	7.50750	8.15875	8.65720	8.76361	---
61	4.02483	6.26212	7.47647	8.11675	8.60162	---	---
62	4.01921	6.24357	7.44444	8.07351	8.54467	---	---
63	4.01339	6.22437	7.41139	8.02902	8.48634	---	---
64	4.00735	6.20450	7.37730	7.98325	8.42662	---	---
65	4.00108	6.18397	7.34216	7.93620	8.36533	---	---
66	3.99458	6.16273	7.30592	7.88784	8.30219	---	---
67	3.98784	6.14078	7.26858	7.83815	8.23691	---	---
68	3.98086	6.11808	7.23012	7.78712	8.16916	---	---
69	3.97361	6.09463	7.19051	7.73475	8.09858	---	---
70	3.96610	6.07042	7.14974	7.68102	8.02484	---	---
71	3.95831	6.04540	7.10778	7.62592	---	---	---
72	3.95024	6.01957	7.06462	7.56944	---	---	---
73	3.94188	5.99291	7.02024	7.51158	---	---	---
74	3.93322	5.96540	6.97463	7.45234	---	---	---
75	3.92424	5.93701	6.92777	7.39101	---	---	---
76	3.91494	5.90774	6.87966	7.32671	---	---	---
77	3.90531	5.87756	6.83027	7.25836	---	---	---

Age/Term	5	10	15	20	30	40	50
78	3.89533	5.84645	6.77960	7.18468	---	---	---
79	3.88500	5.81440	6.72765	7.10425	---	---	---
80	3.87432	5.78140	6.67307	7.01560	---	---	---
81	3.86326	5.74743	6.61409	---	---	---	---
82	3.85181	5.71246	6.54851	---	---	---	---
83	3.83997	5.67649	6.47371	---	---	---	---
84	3.82771	5.63949	6.38662	---	---	---	---
85	3.81504	5.59878	6.28399	---	---	---	---
86	3.80194	5.55072	---	---	---	---	---
87	3.78840	5.49066	---	---	---	---	---
88	3.77441	5.41284	---	---	---	---	---
89	3.75994	5.31045	---	---	---	---	---
90	3.73937	5.17584	---	---	---	---	---
91	3.70484	---	---	---	---	---	---
92	3.64595	---	---	---	---	---	---
93	3.54939	---	---	---	---	---	---
94	3.43534	---	---	---	---	---	---
95	3.30185	---	---	---	---	---	---
96	---	---	---	---	---	---	---
97	---	---	---	---	---	---	---
98	---	---	---	---	---	---	---
99	---	---	---	---	---	---	---
100	---	---	---	---	---	---	---

xi. $\ddot{a}_{x:\overline{n}|}$ for $i = 11\%$

Age/Term	5	10	15	20	30	40	50
50	4.00964	6.22396	7.42797	8.07040	8.57533	8.69783	8.72179
51	4.00602	6.21199	7.40730	8.04239	8.53794	8.65642	---
52	4.00225	6.19958	7.38590	8.01345	8.49945	8.61388	---
53	3.99833	6.18673	7.36378	7.98358	8.45984	8.57021	---
54	3.99427	6.17341	7.34089	7.95274	8.41909	8.52540	---
55	3.99005	6.15961	7.31723	7.92092	8.37719	8.47939	---
56	3.98568	6.14531	7.29277	7.88809	8.33411	8.43211	---
57	3.98113	6.13050	7.26749	7.85423	8.28985	8.38348	---
58	3.97641	6.11516	7.24137	7.81931	8.24439	8.33344	---
59	3.97152	6.09929	7.21439	7.78334	8.19772	8.28189	---
60	3.96644	6.08285	7.18652	7.74626	8.14982	8.22875	---
61	3.96117	6.06583	7.15775	7.70807	8.10068	---	---
62	3.95570	6.04823	7.12805	7.66876	8.05031	---	---
63	3.95003	6.03001	7.09740	7.62828	7.99868	---	---
64	3.94414	6.01116	7.06579	7.58664	7.94579	---	---
65	3.93804	5.99167	7.03319	7.54382	7.89149	---	---
66	3.93171	5.97152	6.99957	7.49979	7.83556	---	---
67	3.92515	5.95068	6.96492	7.45455	7.77778	---	---
68	3.91834	5.92914	6.92923	7.40807	7.71789	---	---
69	3.91128	5.90688	6.89246	7.36034	7.65558	---	---
70	3.90396	5.88389	6.85461	7.31137	7.59060	---	---
71	3.89638	5.86014	6.81565	7.26113	---	---	---
72	3.88852	5.83562	6.77557	7.20962	---	---	---
73	3.88037	5.81030	6.73435	7.15682	---	---	---
74	3.87193	5.78418	6.69198	7.10274	---	---	---
75	3.86318	5.75723	6.64844	7.04679	---	---	---
76	3.85412	5.72943	6.60373	6.98821	---	---	---
77	3.84474	5.70076	6.55782	6.92607	---	---	---

Age/Term	5	10	15	20	30	40	50
78	3.83502	5.67122	6.51071	6.85927	---	---	---
79	3.82496	5.64077	6.46239	6.78658	---	---	---
80	3.81454	5.60942	6.41168	6.70668	---	---	---
81	3.80376	5.57714	6.35701	---	---	---	---
82	3.79261	5.54392	6.29641	---	---	---	---
83	3.78107	5.50973	6.22749	---	---	---	---
84	3.76913	5.47457	6.14750	---	---	---	---
85	3.75679	5.43595	6.05340	---	---	---	---
86	3.74402	5.39050	---	---	---	---	---
87	3.73082	5.33386	---	---	---	---	---
88	3.71719	5.26060	---	---	---	---	---
89	3.70309	5.16424	---	---	---	---	---
90	3.68310	5.03742	---	---	---	---	---
91	3.64958	---	---	---	---	---	---
92	3.59236	---	---	---	---	---	---
93	3.49832	---	---	---	---	---	---
94	3.38721	---	---	---	---	---	---
95	3.25713	---	---	---	---	---	---
96	---	---	---	---	---	---	---
97	---	---	---	---	---	---	---
98	---	---	---	---	---	---	---
99	---	---	---	---	---	---	---
100	---	---	---	---	---	---	---

xii. $\ddot{a}_{x:\overline{n}|}$ for $i = 12\%$

Age/Term	5	10	15	20	30	40	50
50	3.94693	6.03113	7.11476	7.66765	8.07706	8.16796	8.18426
51	3.94340	6.01977	7.09558	7.64216	8.04400	8.13192	---
52	3.93972	6.00799	7.07573	7.61583	8.00995	8.09488	---
53	3.93591	5.99579	7.05520	7.58863	7.97490	8.05683	---
54	3.93195	5.98314	7.03396	7.56056	7.93882	8.01774	---
55	3.92784	5.97004	7.01200	7.53158	7.90170	7.97759	---
56	3.92358	5.95646	6.98929	7.50168	7.86353	7.93631	---
57	3.91915	5.94240	6.96582	7.47084	7.82429	7.89384	---
58	3.91455	5.92784	6.94157	7.43903	7.78395	7.85014	---
59	3.90979	5.91276	6.91652	7.40624	7.74253	7.80512	---
60	3.90484	5.89715	6.89063	7.37245	7.69999	7.75874	---
61	3.89970	5.88099	6.86391	7.33763	7.65633	---	---
62	3.89437	5.86427	6.83633	7.30178	7.61153	---	---
63	3.88884	5.84696	6.80785	7.26486	7.56560	---	---
64	3.88311	5.82906	6.77848	7.22687	7.51851	---	---
65	3.87716	5.81055	6.74818	7.18779	7.47015	---	---
66	3.87099	5.79140	6.71694	7.14760	7.42036	---	---
67	3.86459	5.77161	6.68474	7.10628	7.36894	---	---
68	3.85796	5.75114	6.65155	7.06382	7.31569	---	---
69	3.85108	5.73000	6.61737	7.02022	7.26037	---	---
70	3.84395	5.70815	6.58217	6.97546	7.20277	---	---
71	3.83656	5.68559	6.54594	6.92952	---	---	---
72	3.82890	5.66229	6.50865	6.88240	---	---	---
73	3.82096	5.63823	6.47030	6.83410	---	---	---
74	3.81273	5.61340	6.43087	6.78460	---	---	---
75	3.80421	5.58778	6.39034	6.73341	---	---	---
76	3.79538	5.56136	6.34871	6.67988	---	---	---
77	3.78623	5.53411	6.30596	6.62322	---	---	---

Age/Term	5	10	15	20	30	40	50
78	3.77676	5.50602	6.26208	6.56247	---	---	---
79	3.76695	5.47708	6.21707	6.49656	---	---	---
80	3.75680	5.44726	6.16987	6.42432	---	---	---
81	3.74630	5.41657	6.11910	---	---	---	---
82	3.73542	5.38497	6.06299	---	---	---	---
83	3.72418	5.35246	5.99938	---	---	---	---
84	3.71254	5.31901	5.92576	---	---	---	---
85	3.70051	5.28234	5.83933	---	---	---	---
86	3.68807	5.23931	---	---	---	---	---
87	3.67520	5.18584	---	---	---	---	---
88	3.66191	5.11681	---	---	---	---	---
89	3.64817	5.02605	---	---	---	---	---
90	3.62873	4.90647	---	---	---	---	---
91	3.59619	---	---	---	---	---	---
92	3.54057	---	---	---	---	---	---
93	3.44894	---	---	---	---	---	---
94	3.34067	---	---	---	---	---	---
95	3.21387	---	---	---	---	---	---
96	---	---	---	---	---	---	---
97	---	---	---	---	---	---	---
98	---	---	---	---	---	---	---
99	---	---	---	---	---	---	---
100	---	---	---	---	---	---	---

xiii. $\ddot{a}_{x:\overline{n}|}$ for $i = 13\%$

Age/Term	5	10	15	20	30	40	50
50	3.88635	5.84944	6.82579	7.30233	7.63510	7.70277	7.71390
51	3.88290	5.83865	6.80796	7.27907	7.60572	7.67117	---
52	3.87932	5.82745	6.78951	7.25503	7.57544	7.63868	---
53	3.87561	5.81586	6.77043	7.23021	7.54426	7.60527	---
54	3.87175	5.80384	6.75068	7.20458	7.51215	7.57093	---
55	3.86774	5.79138	6.73026	7.17813	7.47910	7.53563	---
56	3.86359	5.77848	6.70915	7.15082	7.44510	7.49932	---
57	3.85927	5.76512	6.68732	7.12265	7.41012	7.46196	---
58	3.85479	5.75128	6.66476	7.09359	7.37416	7.42350	---
59	3.85014	5.73695	6.64146	7.06363	7.33720	7.38390	---
60	3.84532	5.72211	6.61738	7.03274	7.29923	7.34309	---
61	3.84031	5.70675	6.59252	7.00091	7.26023	---	---
62	3.83512	5.69086	6.56686	6.96812	7.22020	---	---
63	3.82973	5.67440	6.54036	6.93436	7.17913	---	---
64	3.82414	5.65739	6.51302	6.89960	7.13700	---	---
65	3.81834	5.63979	6.48482	6.86384	7.09372	---	---
66	3.81233	5.62158	6.45574	6.82705	7.04916	---	---
67	3.80609	5.60276	6.42575	6.78921	7.00317	---	---
68	3.79962	5.58330	6.39485	6.75033	6.95557	---	---
69	3.79292	5.56319	6.36301	6.71038	6.90619	---	---
70	3.78597	5.54242	6.33022	6.66936	6.85484	---	---
71	3.77876	5.52096	6.29646	6.62724	---	---	---
72	3.77129	5.49880	6.26172	6.58403	---	---	---
73	3.76355	5.47591	6.22598	6.53971	---	---	---
74	3.75553	5.45230	6.18922	6.49429	---	---	---
75	3.74722	5.42792	6.15143	6.44733	---	---	---
76	3.73862	5.40279	6.11261	6.39828	---	---	---
77	3.72970	5.37686	6.07273	6.34646	---	---	---

Age/Term	5	10	15	20	30	40	50
78	3.72046	5.35013	6.03180	6.29105	---	---	---
79	3.71090	5.32259	5.98979	6.23110	---	---	---
80	3.70101	5.29422	5.94579	6.16557	---	---	---
81	3.69077	5.26500	5.89856	---	---	---	---
82	3.68016	5.23492	5.84650	---	---	---	---
83	3.66920	5.20397	5.78768	---	---	---	---
84	3.65785	5.17212	5.71979	---	---	---	---
85	3.64612	5.13727	5.64025	---	---	---	---
86	3.63399	5.09650	---	---	---	---	---
87	3.62144	5.04598	---	---	---	---	---
88	3.60848	4.98087	---	---	---	---	---
89	3.59508	4.89530	---	---	---	---	---
90	3.57618	4.78246	---	---	---	---	---
91	3.54458	---	---	---	---	---	---
92	3.49050	---	---	---	---	---	---
93	3.40120	---	---	---	---	---	---
94	3.29565	---	---	---	---	---	---
95	3.17201	---	---	---	---	---	---
96	---	---	---	---	---	---	---
97	---	---	---	---	---	---	---
98	---	---	---	---	---	---	---
99	---	---	---	---	---	---	---
100	---	---	---	---	---	---	---

xiv. $\ddot{a}_{x:\overline{n}|}$ for $i = 14\%$

Age/Term	5	10	15	20	30	40	50
50	3.82780	5.67808	6.55872	6.97004	7.24117	7.29170	7.29934
51	3.82444	5.66781	6.54212	6.94876	7.21493	7.26381	---
52	3.82095	5.65717	6.52494	6.92677	7.18787	7.23510	---
53	3.81733	5.64614	6.50716	6.90405	7.15999	7.20557	---
54	3.81356	5.63471	6.48877	6.88059	7.13127	7.17519	---
55	3.80966	5.62286	6.46976	6.85637	7.10170	7.14394	---
56	3.80561	5.61059	6.45009	6.83136	7.07126	7.11178	---
57	3.80140	5.59788	6.42976	6.80556	7.03993	7.07869	---
58	3.79703	5.58471	6.40875	6.77894	7.00771	7.04461	---
59	3.79250	5.57108	6.38703	6.75149	6.97458	7.00952	---
60	3.78779	5.55696	6.36460	6.72318	6.94051	6.97336	---
61	3.78291	5.54235	6.34143	6.69401	6.90552	---	---
62	3.77785	5.52723	6.31751	6.66395	6.86958	---	---
63	3.77259	5.51158	6.29281	6.63298	6.83267	---	---
64	3.76714	5.49538	6.26732	6.60110	6.79480	---	---
65	3.76149	5.47863	6.24103	6.56828	6.75588	---	---
66	3.75563	5.46131	6.21391	6.53452	6.71581	---	---
67	3.74955	5.44340	6.18594	6.49979	6.67447	---	---
68	3.74324	5.42488	6.15712	6.46408	6.63172	---	---
69	3.73670	5.40574	6.12741	6.42738	6.58740	---	---
70	3.72992	5.38597	6.09682	6.38969	6.54138	---	---
71	3.72290	5.36554	6.06532	6.35097	---	---	---
72	3.71561	5.34445	6.03289	6.31124	---	---	---
73	3.70807	5.32266	5.99952	6.27048	---	---	---
74	3.70025	5.30018	5.96520	6.22868	---	---	---
75	3.69214	5.27697	5.92991	6.18549	---	---	---
76	3.68375	5.25303	5.89364	6.14042	---	---	---
77	3.67505	5.22834	5.85639	6.09290	---	---	---

Age/Term	5	10	15	20	30	40	50
78	3.66605	5.20289	5.81813	6.04220	---	---	---
79	3.65672	5.17666	5.77887	5.98750	---	---	---
80	3.64707	5.14963	5.73778	5.92789	---	---	---
81	3.63708	5.12180	5.69376	---	---	---	---
82	3.62674	5.09314	5.64537	---	---	---	---
83	3.61605	5.06365	5.59088	---	---	---	---
84	3.60498	5.03331	5.52815	---	---	---	---
85	3.59354	5.00016	5.45483	---	---	---	---
86	3.58171	4.96149	---	---	---	---	---
87	3.56947	4.91370	---	---	---	---	---
88	3.55683	4.85224	---	---	---	---	---
89	3.54376	4.77150	---	---	---	---	---
90	3.52537	4.66491	---	---	---	---	---
91	3.49467	---	---	---	---	---	---
92	3.44207	---	---	---	---	---	---
93	3.35501	---	---	---	---	---	---
94	3.25208	---	---	---	---	---	---
95	3.13150	---	---	---	---	---	---
96	---	---	---	---	---	---	---
97	---	---	---	---	---	---	---
98	---	---	---	---	---	---	---
99	---	---	---	---	---	---	---
100	---	---	---	---	---	---	---

xv. $\ddot{a}_{x:\overline{n}|}$ for $i = 15\%$

Age/Term	5	10	15	20	30	40	50
50	3.77120	5.51631	6.31144	6.66699	6.88842	6.92627	6.93153
51	3.76792	5.50653	6.29596	6.64747	6.86486	6.90148	---
52	3.76451	5.49640	6.27994	6.62729	6.84056	6.87595	---
53	3.76098	5.48590	6.26336	6.60645	6.81552	6.84967	---
54	3.75731	5.47502	6.24621	6.58492	6.78971	6.82262	---
55	3.75350	5.46374	6.22847	6.56268	6.76313	6.79479	---
56	3.74955	5.45206	6.21012	6.53973	6.73575	6.76613	---
57	3.74545	5.43996	6.19115	6.51603	6.70756	6.73662	---
58	3.74118	5.42742	6.17154	6.49159	6.67855	6.70623	---
59	3.73677	5.41444	6.15128	6.46637	6.64871	6.67494	---
60	3.73218	5.40100	6.13034	6.44036	6.61801	6.64268	---
61	3.72742	5.38709	6.10872	6.41355	6.58646	---	---
62	3.72248	5.37269	6.08638	6.38591	6.55404	---	---
63	3.71735	5.35778	6.06332	6.35744	6.52073	---	---
64	3.71203	5.34236	6.03952	6.32812	6.48653	---	---
65	3.70652	5.32641	6.01497	6.29793	6.45138	---	---
66	3.70080	5.30992	5.98964	6.26686	6.41518	---	---
67	3.69487	5.29285	5.96351	6.23490	6.37785	---	---
68	3.68872	5.27522	5.93658	6.20202	6.33926	---	---
69	3.68234	5.25698	5.90882	6.16822	6.29930	---	---
70	3.67573	5.23815	5.88023	6.13350	6.25784	---	---
71	3.66888	5.21869	5.85078	6.09783	---	---	---
72	3.66177	5.19859	5.82047	6.06121	---	---	---
73	3.65441	5.17783	5.78926	6.02362	---	---	---
74	3.64678	5.15640	5.75716	5.98506	---	---	---
75	3.63888	5.13429	5.72415	5.94522	---	---	---
76	3.63069	5.11148	5.69022	5.90371	---	---	---
77	3.62221	5.08795	5.65536	5.86001	---	---	---

Age/Term	5	10	15	20	30	40	50
78	3.61342	5.06368	5.61955	5.81349	---	---	---
79	3.60432	5.03868	5.58279	5.76344	---	---	---
80	3.59491	5.01291	5.54436	5.70904	---	---	---
81	3.58516	4.98638	5.50326	---	---	---	---
82	3.57508	4.95905	5.45821	---	---	---	---
83	3.56465	4.93093	5.40762	---	---	---	---
84	3.55385	4.90199	5.34957	---	---	---	---
85	3.54268	4.87043	5.28186	---	---	---	---
86	3.53114	4.83371	---	---	---	---	---
87	3.51920	4.78848	---	---	---	---	---
88	3.50687	4.73041	---	---	---	---	---
89	3.49411	4.65415	---	---	---	---	---
90	3.47622	4.55341	---	---	---	---	---
91	3.44638	---	---	---	---	---	---
92	3.39521	---	---	---	---	---	---
93	3.31031	---	---	---	---	---	---
94	3.20991	---	---	---	---	---	---
95	3.09226	---	---	---	---	---	---
96	---	---	---	---	---	---	---
97	---	---	---	---	---	---	---
98	---	---	---	---	---	---	---
99	---	---	---	---	---	---	---
100	---	---	---	---	---	---	---

I) POST-RETIREMENT PENSIONS FEMALE LIFE TABLES

i. Life Table

x	m_x	q_x	l_x	d_x	L_x	T_x	e_x
50	0.0062291	0.0062097	1,000,000	6,209	996,896	37,246,811	37
51	0.0063482	0.0063281	993,791	6,288	990,647	36,249,915	36
52	0.0064772	0.0064563	987,503	6,375	984,316	35,259,268	36
53	0.0066169	0.0065951	981,128	6,470	977,893	34,274,953	35
54	0.0067683	0.0067455	974,658	6,574	971,371	33,297,060	34
55	0.0069324	0.0069084	968,084	6,687	964,741	32,325,689	33
56	0.0071100	0.0070848	961,397	6,811	957,992	31,360,948	33
57	0.0073025	0.0072759	954,586	6,945	951,114	30,402,957	32
58	0.0075110	0.0074829	947,641	7,091	944,096	29,451,843	31
59	0.0077369	0.0077070	940,550	7,248	936,926	28,507,748	30
60	0.0079816	0.0079498	933,302	7,419	929,593	27,570,822	30
61	0.0082467	0.0082127	925,883	7,604	922,081	26,641,229	29
62	0.0085338	0.0084975	918,279	7,803	914,378	25,719,148	28
63	0.0088449	0.0088059	910,476	8,017	906,468	24,804,771	27
64	0.0091819	0.0091399	902,459	8,248	898,335	23,898,303	26
65	0.0095470	0.0095015	894,211	8,496	889,963	22,999,968	26
66	0.0099424	0.0098932	885,715	8,762	881,334	22,110,005	25
67	0.0103709	0.0103173	876,953	9,047	872,430	21,228,671	24
68	0.0108350	0.0107765	867,906	9,352	863,230	20,356,242	23
69	0.0113377	0.0112737	858,554	9,679	853,715	19,493,012	23
70	0.0118824	0.0118121	848,875	10,026	843,862	18,639,297	22
71	0.0124724	0.0123950	838,849	10,397	833,651	17,795,435	21
72	0.0131116	0.0130260	828,452	10,791	823,057	16,961,785	20
73	0.0138041	0.0137092	817,661	11,209	812,057	16,138,728	20
74	0.0145542	0.0144488	806,452	11,652	800,626	15,326,672	19
75	0.0153668	0.0152493	794,800	12,120	788,740	14,526,046	18

x	m_x	q_x	l_x	d_x	L_x	T_x	e_x
76	0.0162471	0.0161158	782,680	12,613	776,374	13,737,306	18
77	0.0172007	0.0170536	770,067	13,132	763,501	12,960,932	17
78	0.0182338	0.0180685	756,935	13,676	750,097	12,197,431	16
79	0.0193529	0.0191668	743,259	14,245	736,137	11,447,334	15
80	0.0205652	0.0203552	729,014	14,839	721,595	10,711,198	15
81	0.0218786	0.0216410	714,175	15,455	706,448	9,989,603	14
82	0.0233013	0.0230320	698,720	16,092	690,674	9,283,156	13
83	0.0248426	0.0245366	682,628	16,749	674,254	8,592,482	13
84	0.0265123	0.0261639	665,879	17,422	657,168	7,918,228	12
85	0.0283211	0.0279238	648,457	18,107	639,404	7,261,060	11
86	0.0302805	0.0298266	630,350	18,801	620,950	6,621,657	11
87	0.0324032	0.0318838	611,549	19,498	601,800	6,000,707	10
88	0.0347027	0.0341074	592,051	20,193	581,955	5,398,907	9
89	0.0371937	0.0365105	571,858	20,878	561,419	4,816,953	8
90	0.0398923	0.0391071	550,980	21,547	540,207	4,255,534	8
91	0.0464518	0.0453895	529,433	24,030	517,418	3,715,327	7
92	0.0542627	0.0528168	505,403	26,693	492,057	3,197,909	6
93	0.0635895	0.0616098	478,710	29,493	463,964	2,705,853	6
94	0.0747573	0.0720313	449,217	32,357	433,039	2,241,889	5
95	0.0881672	0.0843922	416,860	35,179	399,271	1,808,851	4
96	0.1043146	0.0990582	381,681	37,808	362,777	1,409,580	4
97	0.1238136	0.1164555	343,873	40,045	323,851	1,046,803	3
98	0.1474267	0.1370743	303,828	41,647	283,005	722,953	2
99	0.1761040	0.1614692	262,181	42,334	241,014	439,948	2
100	0.2110313	0.1902513	219,847	41,826	198,934	198,934	1

b. Annuity Functions

i. $\ddot{a}_{x:\overline{n}|}$ for $i = 1\%$

Age/Term	5	10	15	20	30	40	50
50	4.84090	9.29315	13.36798	17.07029	23.34025	27.99534	30.72504
51	4.83967	9.28710	13.35249	17.03943	23.25432	27.81174	---
52	4.83833	9.28055	13.33575	17.00612	23.16192	27.61599	---
53	4.83689	9.27347	13.31765	16.97015	23.06264	27.40626	---
54	4.83532	9.26580	13.29809	16.93134	22.95600	27.18055	---
55	4.83363	9.25751	13.27696	16.88946	22.84157	26.93670	---
56	4.83180	9.24854	13.25412	16.84428	22.71886	26.67242	---
57	4.82981	9.23884	13.22945	16.79558	22.58738	26.38539	---
58	4.82766	9.22835	13.20281	16.74309	22.44662	26.07331	---
59	4.82534	9.21700	13.17406	16.68655	22.29609	25.73410	---
60	4.82282	9.20474	13.14301	16.62564	22.13523	25.36601	---
61	4.82009	9.19148	13.10951	16.56010	21.96355	---	---
62	4.81715	9.17715	13.07338	16.48959	21.78055	---	---
63	4.81396	9.16167	13.03442	16.41379	21.58419	---	---
64	4.81050	9.14494	12.99242	16.33234	21.37220	---	---
65	4.80677	9.12688	12.94717	16.24488	21.14215	---	---
66	4.80273	9.10737	12.89844	16.15104	20.89139	---	---
67	4.79835	9.08630	12.84598	16.05042	20.61718	---	---
68	4.79362	9.06357	12.78953	15.94262	20.31678	---	---
69	4.78850	9.03903	12.72883	15.82724	19.98764	---	---
70	4.78297	9.01258	12.66361	15.70389	19.62762	---	---
71	4.77699	8.98405	12.59355	15.57211	---	---	---
72	4.77052	8.95331	12.51838	15.43152	---	---	---
73	4.76352	8.92019	12.43776	15.27983	---	---	---
74	4.75597	8.88453	12.35138	15.11443	---	---	---

Age/Term	5	10	15	20	30	40	50
75	4.74780	8.84615	12.25891	14.93240	---	---	---
76	4.73899	8.80486	12.16001	14.73049	---	---	---
77	4.72946	8.76047	12.05434	14.50520	---	---	---
78	4.71918	8.71278	11.93946	14.25294	---	---	---
79	4.70808	8.66157	11.81247	13.97012	---	---	---
80	4.69610	8.60662	11.67005	13.65348	---	---	---
81	4.68317	8.54772	11.50846	---	---	---	---
82	4.66923	8.48463	11.32353	---	---	---	---
83	4.65421	8.41464	11.11081	---	---	---	---
84	4.63802	8.33448	10.86572	---	---	---	---
85	4.62058	8.24026	10.58383	---	---	---	---
86	4.60181	8.12739	---	---	---	---	---
87	4.58161	7.99063	---	---	---	---	---
88	4.55690	7.82412	---	---	---	---	---
89	4.52377	7.62153	---	---	---	---	---
90	4.47736	7.37624	---	---	---	---	---
91	4.41172	---	---	---	---	---	---
92	4.33541	---	---	---	---	---	---
93	4.24691	---	---	---	---	---	---
94	4.14464	---	---	---	---	---	---
95	4.02702	---	---	---	---	---	---
96	---	---	---	---	---	---	---
97	---	---	---	---	---	---	---
98	---	---	---	---	---	---	---
99	---	---	---	---	---	---	---
100	---	---	---	---	---	---	---

ii. $\ddot{a}_{x:\overline{n}|}$ for $i = 2\%$

Age/Term	5	10	15	20	30	40	50
50	4.74843	8.90579	12.52791	15.66081	20.59795	23.92277	25.69650
51	4.74724	8.90011	12.51387	15.63379	20.52788	23.78343	---
52	4.74594	8.89396	12.49868	15.60461	20.45252	23.63474	---
53	4.74454	8.88732	12.48227	15.57311	20.37152	23.47540	---
54	4.74302	8.88012	12.46453	15.53911	20.28451	23.30398	---
55	4.74138	8.87234	12.44536	15.50242	20.19110	23.11891	---
56	4.73960	8.86392	12.42464	15.46284	20.09089	22.91851	---
57	4.73767	8.85481	12.40226	15.42017	19.98349	22.70110	---
58	4.73559	8.84496	12.37810	15.37417	19.86846	22.46498	---
59	4.73333	8.83432	12.35201	15.32462	19.74540	22.20857	---
60	4.73089	8.82280	12.32384	15.27124	19.61383	21.93051	---
61	4.72824	8.81036	12.29345	15.21378	19.47334	---	---
62	4.72538	8.79691	12.26067	15.15197	19.32350	---	---
63	4.72228	8.78238	12.22532	15.08550	19.16273	---	---
64	4.71893	8.76667	12.18720	15.01407	18.98926	---	---
65	4.71530	8.74971	12.14614	14.93735	18.80118	---	---
66	4.71138	8.73140	12.10190	14.85502	18.59640	---	---
67	4.70714	8.71162	12.05429	14.76672	18.37274	---	---
68	4.70254	8.69027	12.00304	14.67210	18.12802	---	---
69	4.69757	8.66724	11.94793	14.57081	17.86016	---	---
70	4.69220	8.64240	11.88871	14.46248	17.56737	---	---
71	4.68639	8.61562	11.82510	14.34672	---	---	---
72	4.68011	8.58675	11.75682	14.22318	---	---	---
73	4.67333	8.55565	11.68359	14.08993	---	---	---
74	4.66599	8.52216	11.60511	13.94477	---	---	---
75	4.65807	8.48611	11.52109	13.78521	---	---	---
76	4.64951	8.44733	11.43121	13.60845	---	---	---
77	4.64026	8.40564	11.33516	13.41149	---	---	---

Age/Term	5	10	15	20	30	40	50
78	4.63028	8.36084	11.23078	13.19119	---	---	---
79	4.61950	8.31273	11.11553	12.94442	---	---	---
80	4.60787	8.26111	10.98645	12.66824	---	---	---
81	4.59532	8.20577	10.84020	---	---	---	---
82	4.58179	8.14648	10.67300	---	---	---	---
83	4.56720	8.08076	10.48083	---	---	---	---
84	4.55148	8.00560	10.25949	---	---	---	---
85	4.53455	7.91735	10.00485	---	---	---	---
86	4.51632	7.81174	---	---	---	---	---
87	4.49671	7.68381	---	---	---	---	---
88	4.47274	7.52801	---	---	---	---	---
89	4.44064	7.33826	---	---	---	---	---
90	4.39565	7.10817	---	---	---	---	---
91	4.33193	---	---	---	---	---	---
92	4.25785	---	---	---	---	---	---
93	4.17193	---	---	---	---	---	---
94	4.07263	---	---	---	---	---	---
95	3.95839	---	---	---	---	---	---
96	---	---	---	---	---	---	---
97	---	---	---	---	---	---	---
98	---	---	---	---	---	---	---
99	---	---	---	---	---	---	---
100	---	---	---	---	---	---	---

iii. $\ddot{a}_{x:\overline{n}|}$ for $i = 3\%$

Age/Term	5	10	15	20	30	40	50
50	4.65950	8.54483	11.76886	14.42476	18.32451	20.70888	21.86712
51	4.65834	8.53950	11.75610	14.40102	18.26702	20.60204	---
52	4.65709	8.53372	11.74230	14.37538	18.20517	20.48795	---
53	4.65572	8.52748	11.72738	14.34770	18.13868	20.36567	---
54	4.65425	8.52072	11.71126	14.31782	18.06722	20.23413	---
55	4.65265	8.51340	11.69383	14.28558	17.99049	20.09220	---
56	4.65092	8.50549	11.67500	14.25079	17.90815	19.93866	---
57	4.64906	8.49693	11.65466	14.21328	17.81987	19.77225	---
58	4.64703	8.48768	11.63270	14.17284	17.72528	19.59170	---
59	4.64484	8.47768	11.60898	14.12927	17.62403	19.39582	---
60	4.64246	8.46686	11.58337	14.08233	17.51573	19.18355	---
61	4.63989	8.45516	11.55574	14.03180	17.40003	---	---
62	4.63712	8.44252	11.52594	13.97744	17.27657	---	---
63	4.63411	8.42887	11.49380	13.91897	17.14410	---	---
64	4.63085	8.41411	11.45914	13.85611	17.00124	---	---
65	4.62733	8.39817	11.42179	13.78860	16.84647	---	---
66	4.62352	8.38096	11.38157	13.71614	16.67814	---	---
67	4.61940	8.36237	11.33826	13.63840	16.49452	---	---
68	4.61494	8.34231	11.29164	13.55509	16.29385	---	---
69	4.61011	8.32066	11.24151	13.46587	16.07442	---	---
70	4.60490	8.29731	11.18763	13.37043	15.83476	---	---
71	4.59926	8.27213	11.12974	13.26841	---	---	---
72	4.59316	8.24500	11.06760	13.15949	---	---	---
73	4.58657	8.21576	11.00095	13.04207	---	---	---
74	4.57944	8.18427	10.92951	12.91425	---	---	---
75	4.57175	8.15038	10.85300	12.77390	---	---	---
76	4.56343	8.11393	10.77115	12.61865	---	---	---
77	4.55445	8.07472	10.68366	12.44588	---	---	---

Age/Term	5	10	15	20	30	40	50
78	4.54476	8.03259	10.58864	12.25287	---	---	---
79	4.53429	7.98735	10.48383	12.03684	---	---	---
80	4.52299	7.93880	10.36659	11.79517	---	---	---
81	4.51081	7.88674	10.23394	---	---	---	---
82	4.49766	7.83097	10.08247	---	---	---	---
83	4.48349	7.76920	9.90851	---	---	---	---
84	4.46823	7.69864	9.70822	---	---	---	---
85	4.45178	7.61590	9.47775	---	---	---	---
86	4.43408	7.51697	---	---	---	---	---
87	4.41503	7.39718	---	---	---	---	---
88	4.39177	7.25124	---	---	---	---	---
89	4.36065	7.07334	---	---	---	---	---
90	4.31702	6.85727	---	---	---	---	---
91	4.25515	---	---	---	---	---	---
92	4.18321	---	---	---	---	---	---
93	4.09975	---	---	---	---	---	---
94	4.00329	---	---	---	---	---	---
95	3.89231	---	---	---	---	---	---
96	---	---	---	---	---	---	---
97	---	---	---	---	---	---	---
98	---	---	---	---	---	---	---
99	---	---	---	---	---	---	---
100	---	---	---	---	---	---	---

iv. $\ddot{a}_{x:\overline{n}|}$ for $i = 4\%$

Age/Term	5	10	15	20	30	40	50
50	4.57393	8.20809	11.08154	13.33709	16.42682	18.14355	18.90353
51	4.57280	8.20307	11.06992	13.31616	16.37935	18.06078	---
52	4.57158	8.19764	11.05735	13.29356	16.32827	17.97233	---
53	4.57026	8.19176	11.04377	13.26916	16.27333	17.87750	---
54	4.56883	8.18541	11.02909	13.24282	16.21429	17.77552	---
55	4.56728	8.17853	11.01322	13.21439	16.15086	17.66553	---
56	4.56560	8.17108	10.99607	13.18371	16.08277	17.54663	---
57	4.56378	8.16304	10.97754	13.15064	16.00974	17.41789	---
58	4.56181	8.15433	10.95754	13.11498	15.93146	17.27835	---
59	4.55969	8.14492	10.93594	13.07655	15.84764	17.12710	---
60	4.55738	8.13474	10.91261	13.03514	15.75793	16.96328	---
61	4.55488	8.12374	10.88744	12.99056	15.66205	---	---
62	4.55218	8.11185	10.86029	12.94259	15.55967	---	---
63	4.54926	8.09901	10.83101	12.89099	15.44982	---	---
64	4.54610	8.08512	10.79943	12.83551	15.33140	---	---
65	4.54268	8.07013	10.76540	12.77591	15.20322	---	---
66	4.53898	8.05393	10.72874	12.71192	15.06395	---	---
67	4.53497	8.03645	10.68927	12.64327	14.91221	---	---
68	4.53064	8.01757	10.64679	12.56967	14.74656	---	---
69	4.52595	7.99720	10.60109	12.49083	14.56562	---	---
70	4.52089	7.97523	10.55197	12.40648	14.36815	---	---
71	4.51540	7.95154	10.49918	12.31628	---	---	---
72	4.50948	7.92600	10.44252	12.21996	---	---	---
73	4.50308	7.89849	10.38173	12.11613	---	---	---
74	4.49615	7.86886	10.31656	12.00321	---	---	---
75	4.48868	7.83696	10.24677	11.87937	---	---	---
76	4.48060	7.80265	10.17208	11.74255	---	---	---
77	4.47188	7.76574	10.09222	11.59050	---	---	---

Age/Term	5	10	15	20	30	40	50
78	4.46246	7.72609	10.00554	11.42083	---	---	---
79	4.45229	7.68349	9.91002	11.23110	---	---	---
80	4.44131	7.63778	9.80333	11.01895	---	---	---
81	4.42947	7.58877	9.68276	---	---	---	---
82	4.41670	7.53625	9.54526	---	---	---	---
83	4.40293	7.47812	9.38747	---	---	---	---
84	4.38810	7.41181	9.20588	---	---	---	---
85	4.37212	7.33415	8.99688	---	---	---	---
86	4.35492	7.24138	---	---	---	---	---
87	4.33641	7.12909	---	---	---	---	---
88	4.31384	6.99225	---	---	---	---	---
89	4.28365	6.82528	---	---	---	---	---
90	4.24133	6.62218	---	---	---	---	---
91	4.18122	---	---	---	---	---	---
92	4.11133	---	---	---	---	---	---
93	4.03024	---	---	---	---	---	---
94	3.93650	---	---	---	---	---	---
95	3.82864	---	---	---	---	---	---
96	---	---	---	---	---	---	---
97	---	---	---	---	---	---	---
98	---	---	---	---	---	---	---
99	---	---	---	---	---	---	---
100	---	---	---	---	---	---	---

v. $\ddot{a}_{x:\overline{n}|}$ for $i = 5\%$

Age/Term	5	10	15	20	30	40	50
50	4.49155	7.89357	10.45786	12.37675	14.83200	16.07285	16.57387
51	4.49045	7.88885	10.44726	12.35825	14.79256	16.00806	---
52	4.48927	7.88373	10.43580	12.33827	14.75011	15.93877	---
53	4.48798	7.87820	10.42340	12.31669	14.70444	15.86446	---
54	4.48659	7.87222	10.41000	12.29339	14.65534	15.78455	---
55	4.48508	7.86574	10.39552	12.26825	14.60258	15.69840	---
56	4.48345	7.85873	10.37987	12.24112	14.54592	15.60534	---
57	4.48169	7.85115	10.36297	12.21186	14.48512	15.50466	---
58	4.47977	7.84296	10.34471	12.18031	14.41993	15.39563	---
59	4.47771	7.83410	10.32500	12.14630	14.35009	15.27755	---
60	4.47546	7.82451	10.30371	12.10966	14.27532	15.14975	---
61	4.47304	7.81415	10.28073	12.07021	14.19535	---	---
62	4.47042	7.80295	10.25595	12.02775	14.10992	---	---
63	4.46758	7.79086	10.22922	11.98206	14.01824	---	---
64	4.46450	7.77778	10.20039	11.93294	13.91946	---	---
65	4.46118	7.76366	10.16933	11.88016	13.81260	---	---
66	4.45758	7.74841	10.13585	11.82348	13.69662	---	---
67	4.45369	7.73194	10.09981	11.76265	13.57039	---	---
68	4.44948	7.71416	10.06101	11.69743	13.43275	---	---
69	4.44492	7.69497	10.01927	11.62754	13.28256	---	---
70	4.44000	7.67428	9.97440	11.55275	13.11877	---	---
71	4.43467	7.65196	9.92618	11.47275	---	---	---
72	4.42891	7.62791	9.87441	11.38729	---	---	---
73	4.42269	7.60199	9.81886	11.29520	---	---	---
74	4.41596	7.57407	9.75930	11.19512	---	---	---
75	4.40870	7.54403	9.69549	11.08548	---	---	---
76	4.40085	7.51169	9.62720	10.96451	---	---	---
77	4.39237	7.47692	9.55418	10.83025	---	---	---

Age/Term	5	10	15	20	30	40	50
78	4.38321	7.43955	9.47494	10.68061	---	---	---
79	4.37333	7.39941	9.38773	10.51344	---	---	---
80	4.36266	7.35633	9.29042	10.32662	---	---	---
81	4.35115	7.31013	9.18062	---	---	---	---
82	4.33874	7.26062	9.05554	---	---	---	---
83	4.32536	7.20587	8.91214	---	---	---	---
84	4.31094	7.14348	8.74717	---	---	---	---
85	4.29541	7.07052	8.55728	---	---	---	---
86	4.27869	6.98343	---	---	---	---	---
87	4.26069	6.87806	---	---	---	---	---
88	4.23878	6.74963	---	---	---	---	---
89	4.20950	6.59277	---	---	---	---	---
90	4.16842	6.40166	---	---	---	---	---
91	4.11001	---	---	---	---	---	---
92	4.04208	---	---	---	---	---	---
93	3.96327	---	---	---	---	---	---
94	3.87214	---	---	---	---	---	---
95	3.76727	---	---	---	---	---	---
96	---	---	---	---	---	---	---
97	---	---	---	---	---	---	---
98	---	---	---	---	---	---	---
99	---	---	---	---	---	---	---
100	---	---	---	---	---	---	---

vi. $\ddot{a}_{x:\overline{n}|}$ for $i = 6\%$

Age/Term	5	10	15	20	30	40	50
50	4.41221	7.59949	9.89077	11.52604	13.48279	14.38307	14.71490
51	4.41114	7.59504	9.88107	11.50963	13.44981	14.33183	---
52	4.40999	7.59022	9.87059	11.49191	13.41430	14.27697	---
53	4.40874	7.58500	9.85926	11.47277	13.37610	14.21812	---
54	4.40739	7.57936	9.84701	11.45210	13.33501	14.15484	---
55	4.40592	7.57325	9.83377	11.42979	13.29084	14.08664	---
56	4.40433	7.56665	9.81946	11.40571	13.24339	14.01301	---
57	4.40262	7.55951	9.80401	11.37975	13.19246	13.93341	---
58	4.40076	7.55178	9.78731	11.35175	13.13783	13.84728	---
59	4.39875	7.54343	9.76929	11.32157	13.07927	13.75408	---
60	4.39657	7.53439	9.74982	11.28904	13.01655	13.65327	---
61	4.39421	7.52463	9.72881	11.25402	12.94943	---	---
62	4.39166	7.51407	9.70614	11.21631	12.87769	---	---
63	4.38890	7.50267	9.68169	11.17574	12.80070	---	---
64	4.38591	7.49034	9.65533	11.13211	12.71776	---	---
65	4.38268	7.47703	9.62691	11.08522	12.62811	---	---
66	4.37918	7.46265	9.59629	11.03486	12.53089	---	---
67	4.37540	7.44712	9.56331	10.98080	12.42519	---	---
68	4.37131	7.43036	9.52781	10.92281	12.31007	---	---
69	4.36688	7.41227	9.48961	10.86067	12.18457	---	---
70	4.36209	7.39276	9.44854	10.79415	12.04783	---	---
71	4.35691	7.37172	9.40441	10.72297	---	---	---
72	4.35131	7.34904	9.35701	10.64691	---	---	---
73	4.34526	7.32460	9.30615	10.56497	---	---	---
74	4.33872	7.29827	9.25160	10.47598	---	---	---
75	4.33166	7.26993	9.19316	10.37860	---	---	---
76	4.32403	7.23943	9.13060	10.27130	---	---	---
77	4.31578	7.20664	9.06369	10.15236	---	---	---

Age/Term	5	10	15	20	30	40	50
78	4.30688	7.17139	8.99113	10.01996	---	---	---
79	4.29727	7.13352	8.91132	9.87219	---	---	---
80	4.28690	7.09287	8.82241	9.70715	---	---	---
81	4.27571	7.04928	8.72221	---	---	---	---
82	4.26364	7.00256	8.60821	---	---	---	---
83	4.25063	6.95094	8.47762	---	---	---	---
84	4.23661	6.89218	8.32747	---	---	---	---
85	4.22151	6.82355	8.15462	---	---	---	---
86	4.20525	6.74172	---	---	---	---	---
87	4.18775	6.64275	---	---	---	---	---
88	4.16646	6.52208	---	---	---	---	---
89	4.13804	6.37457	---	---	---	---	---
90	4.09817	6.19457	---	---	---	---	---
91	4.04138	---	---	---	---	---	---
92	3.97534	---	---	---	---	---	---
93	3.89871	---	---	---	---	---	---
94	3.81009	---	---	---	---	---	---
95	3.70809	---	---	---	---	---	---
96	---	---	---	---	---	---	---
97	---	---	---	---	---	---	---
98	---	---	---	---	---	---	---
99	---	---	---	---	---	---	---
100	---	---	---	---	---	---	---

vii. $\ddot{a}_{x:\overline{n}|}$ for $i = 7\%$

Age/Term	5	10	15	20	30	40	50
50	4.33575	7.32421	9.37406	10.76999	12.33387	12.98950	13.21027
51	4.33472	7.32000	9.36518	10.75539	12.30612	12.94853	---
52	4.33360	7.31546	9.35558	10.73961	12.27624	12.90465	---
53	4.33238	7.31054	9.34521	10.72258	12.24408	12.85755	---
54	4.33107	7.30521	9.33399	10.70419	12.20948	12.80690	---
55	4.32964	7.29945	9.32186	10.68434	12.17227	12.75233	---
56	4.32810	7.29322	9.30875	10.66291	12.13229	12.69344	---
57	4.32643	7.28648	9.29459	10.63980	12.08936	12.62982	---
58	4.32462	7.27919	9.27930	10.61487	12.04328	12.56104	---
59	4.32267	7.27131	9.26278	10.58800	11.99388	12.48665	---
60	4.32055	7.26279	9.24495	10.55904	11.94093	12.40624	---
61	4.31825	7.25357	9.22569	10.52784	11.88425	---	---
62	4.31577	7.24361	9.20493	10.49426	11.82362	---	---
63	4.31309	7.23285	9.18252	10.45812	11.75856	---	---
64	4.31018	7.22122	9.15836	10.41925	11.68848	---	---
65	4.30704	7.20866	9.13231	10.37746	11.61278	---	---
66	4.30364	7.19509	9.10424	10.33257	11.53076	---	---
67	4.29996	7.18044	9.07401	10.28437	11.44167	---	---
68	4.29598	7.16462	9.04147	10.23267	11.34474	---	---
69	4.29167	7.14754	9.00644	10.17724	11.23919	---	---
70	4.28702	7.12913	8.96879	10.11789	11.12427	---	---
71	4.28198	7.10927	8.92831	10.05437	---	---	---
72	4.27653	7.08786	8.88484	9.98646	---	---	---
73	4.27065	7.06479	8.83818	9.91333	---	---	---
74	4.26429	7.03993	8.78813	9.83396	---	---	---
75	4.25742	7.01318	8.73450	9.74719	---	---	---
76	4.25000	6.98439	8.67709	9.65170	---	---	---
77	4.24198	6.95342	8.61566	9.54599	---	---	---

Age/Term	5	10	15	20	30	40	50
78	4.23332	6.92014	8.54907	9.42847	---	---	---
79	4.22397	6.88438	8.47591	9.29743	---	---	---
80	4.21388	6.84599	8.39450	9.15118	---	---	---
81	4.20300	6.80482	8.30288	---	---	---	---
82	4.19126	6.76069	8.19877	---	---	---	---
83	4.17861	6.71196	8.07963	---	---	---	---
84	4.16497	6.65657	7.94270	---	---	---	---
85	4.15028	6.59196	7.78507	---	---	---	---
86	4.13446	6.51498	---	---	---	---	---
87	4.11744	6.42192	---	---	---	---	---
88	4.09676	6.30844	---	---	---	---	---
89	4.06917	6.16960	---	---	---	---	---
90	4.03044	5.99990	---	---	---	---	---
91	3.97522	---	---	---	---	---	---
92	3.91099	---	---	---	---	---	---
93	3.83645	---	---	---	---	---	---
94	3.75024	---	---	---	---	---	---
95	3.65100	---	---	---	---	---	---
96	---	---	---	---	---	---	---
97	---	---	---	---	---	---	---
98	---	---	---	---	---	---	---
99	---	---	---	---	---	---	---
100	---	---	---	---	---	---	---

viii. $\ddot{a}_{x:\overline{n}|}$ for $i = 8\%$

Age/Term	5	10	15	20	30	40	50
50	4.26206	7.06624	8.90233	10.09590	11.34928	11.82847	11.97600
51	4.26105	7.06227	8.89418	10.08287	11.32578	11.79538	---
52	4.25996	7.05798	8.88538	10.06879	11.30048	11.75990	---
53	4.25877	7.05333	8.87585	10.05359	11.27323	11.72181	---
54	4.25749	7.04831	8.86556	10.03717	11.24391	11.68084	---
55	4.25611	7.04287	8.85443	10.01945	11.21238	11.63671	---
56	4.25461	7.03698	8.84240	10.00032	11.17847	11.58910	---
57	4.25298	7.03061	8.82940	9.97968	11.14206	11.53770	---
58	4.25122	7.02373	8.81536	9.95743	11.10296	11.48217	---
59	4.24932	7.01629	8.80021	9.93343	11.06102	11.42215	---
60	4.24726	7.00823	8.78383	9.90756	11.01605	11.35730	---
61	4.24503	6.99953	8.76616	9.87970	10.96788	---	---
62	4.24262	6.99013	8.74709	9.84970	10.91633	---	---
63	4.24001	6.97996	8.72652	9.81740	10.86100	---	---
64	4.23718	6.96898	8.70434	9.78266	10.80142	---	---
65	4.23412	6.95711	8.68042	9.74531	10.73709	---	---
66	4.23081	6.94429	8.65464	9.70518	10.66744	---	---
67	4.22723	6.93045	8.62688	9.66208	10.59187	---	---
68	4.22336	6.91550	8.59699	9.61583	10.50973	---	---
69	4.21917	6.89938	8.56481	9.56624	10.42036	---	---
70	4.21464	6.88198	8.53022	9.51313	10.32314	---	---
71	4.20974	6.86321	8.49303	9.45626	---	---	---
72	4.20444	6.84299	8.45308	9.39546	---	---	---
73	4.19872	6.82119	8.41019	9.32998	---	---	---
74	4.19253	6.79770	8.36419	9.25896	---	---	---
75	4.18584	6.77242	8.31489	9.18141	---	---	---
76	4.17862	6.74521	8.26209	9.09616	---	---	---
77	4.17082	6.71595	8.20559	9.00191	---	---	---

Age/Term	5	10	15	20	30	40	50
78	4.16240	6.68448	8.14437	8.89726	---	---	---
79	4.15330	6.65068	8.07717	8.78070	---	---	---
80	4.14349	6.61440	8.00249	8.65068	---	---	---
81	4.13290	6.57547	7.91855	---	---	---	---
82	4.12148	6.53375	7.82329	---	---	---	---
83	4.10916	6.48771	7.71437	---	---	---	---
84	4.09589	6.43544	7.58927	---	---	---	---
85	4.08160	6.37453	7.44526	---	---	---	---
86	4.06621	6.30206	---	---	---	---	---
87	4.04964	6.21448	---	---	---	---	---
88	4.02954	6.10766	---	---	---	---	---
89	4.00274	5.97684	---	---	---	---	---
90	3.96512	5.81670	---	---	---	---	---
91	3.91140	---	---	---	---	---	---
92	3.84890	---	---	---	---	---	---
93	3.77638	---	---	---	---	---	---
94	3.69249	---	---	---	---	---	---
95	3.59589	---	---	---	---	---	---
96	---	---	---	---	---	---	---
97	---	---	---	---	---	---	---
98	---	---	---	---	---	---	---
99	---	---	---	---	---	---	---
100	---	---	---	---	---	---	---

ix. $\ddot{a}_{x:\overline{n}|}$ for $i = 9\%$

Age/Term	5	10	15	20	30	40	50
50	4.19098	6.82425	8.47082	9.49301	10.50026	10.85175	10.95075
51	4.19000	6.82050	8.46333	9.48134	10.48024	10.82473	---
52	4.18894	6.81644	8.45523	9.46874	10.45868	10.79576	---
53	4.18779	6.81205	8.44647	9.45513	10.43546	10.76463	---
54	4.18654	6.80730	8.43701	9.44044	10.41046	10.73114	---
55	4.18519	6.80216	8.42677	9.42457	10.38357	10.69508	---
56	4.18373	6.79659	8.41571	9.40744	10.35464	10.65618	---
57	4.18215	6.79057	8.40376	9.38896	10.32356	10.61422	---
58	4.18044	6.78406	8.39086	9.36902	10.29018	10.56889	---
59	4.17859	6.77703	8.37692	9.34753	10.25435	10.51993	---
60	4.17658	6.76942	8.36186	9.32436	10.21592	10.46706	---
61	4.17441	6.76119	8.34561	9.29939	10.17474	---	---
62	4.17206	6.75229	8.32807	9.27250	10.13064	---	---
63	4.16952	6.74268	8.30915	9.24356	10.08330	---	---
64	4.16677	6.73230	8.28874	9.21242	10.03232	---	---
65	4.16380	6.72108	8.26674	9.17893	9.97732	---	---
66	4.16058	6.70896	8.24302	9.14294	9.91780	---	---
67	4.15709	6.69587	8.21748	9.10429	9.85328	---	---
68	4.15332	6.68174	8.18997	9.06280	9.78322	---	---
69	4.14924	6.66649	8.16036	9.01830	9.70707	---	---
70	4.14484	6.65004	8.12852	8.97062	9.62429	---	---
71	4.14007	6.63229	8.09429	8.91956	---	---	---
72	4.13491	6.61316	8.05751	8.86495	---	---	---
73	4.12934	6.59254	8.01802	8.80615	---	---	---
74	4.12332	6.57033	7.97565	8.74242	---	---	---
75	4.11681	6.54641	7.93024	8.67288	---	---	---
76	4.10978	6.52068	7.88160	8.59653	---	---	---
77	4.10219	6.49299	7.82953	8.51224	---	---	---

Age/Term	5	10	15	20	30	40	50
78	4.09399	6.46323	7.77315	8.41876	---	---	---
79	4.08514	6.43125	7.71131	8.31474	---	---	---
80	4.07559	6.39691	7.64266	8.19881	---	---	---
81	4.06528	6.36008	7.56561	---	---	---	---
82	4.05416	6.32059	7.47828	---	---	---	---
83	4.04218	6.27704	7.37853	---	---	---	---
84	4.02926	6.22767	7.26402	---	---	---	---
85	4.01535	6.17021	7.13221	---	---	---	---
86	4.00036	6.10190	---	---	---	---	---
87	3.98424	6.01940	---	---	---	---	---
88	3.96469	5.91875	---	---	---	---	---
89	3.93866	5.79538	---	---	---	---	---
90	3.90209	5.64412	---	---	---	---	---
91	3.84981	---	---	---	---	---	---
92	3.78899	---	---	---	---	---	---
93	3.71840	---	---	---	---	---	---
94	3.63673	---	---	---	---	---	---
95	3.54269	---	---	---	---	---	---
96	---	---	---	---	---	---	---
97	---	---	---	---	---	---	---
98	---	---	---	---	---	---	---
99	---	---	---	---	---	---	---
100	---	---	---	---	---	---	---

x. $\ddot{a}_{x:\overline{n}|}$ for $i = 10\%$

Age/Term	5	10	15	20	30	40	50
50	4.12241	6.59701	8.07533	8.95213	9.76374	10.02245	10.08918
51	4.12145	6.59346	8.06843	8.94166	9.74659	10.00018	---
52	4.12042	6.58962	8.06097	8.93035	9.72810	9.97627	---
53	4.11930	6.58547	8.05291	8.91813	9.70819	9.95057	---
54	4.11808	6.58097	8.04419	8.90493	9.68675	9.92292	---
55	4.11677	6.57610	8.03476	8.89068	9.66367	9.89315	---
56	4.11535	6.57084	8.02457	8.87530	9.63884	9.86104	---
57	4.11381	6.56514	8.01357	8.85870	9.61216	9.82641	---
58	4.11214	6.55899	8.00168	8.84079	9.58348	9.78903	---
59	4.11034	6.55233	7.98883	8.82148	9.55269	9.74867	---
60	4.10839	6.54512	7.97496	8.80066	9.51965	9.70510	---
61	4.10628	6.53734	7.95999	8.77822	9.48422	---	---
62	4.10399	6.52892	7.94383	8.75406	9.44627	---	---
63	4.10152	6.51983	7.92639	8.72805	9.40552	---	---
64	4.09884	6.51000	7.90758	8.70005	9.36165	---	---
65	4.09594	6.49938	7.88731	8.66994	9.31432	---	---
66	4.09281	6.48791	7.86545	8.63757	9.26315	---	---
67	4.08941	6.47552	7.84190	8.60280	9.20772	---	---
68	4.08575	6.46215	7.81654	8.56546	9.14758	---	---
69	4.08177	6.44771	7.78925	8.52541	9.08227	---	---
70	4.07748	6.43214	7.75989	8.48249	9.01134	---	---
71	4.07284	6.41534	7.72832	8.43651	---	---	---
72	4.06782	6.39723	7.69439	8.38731	---	---	---
73	4.06240	6.37771	7.65797	8.33435	---	---	---
74	4.05653	6.35668	7.61888	8.27698	---	---	---
75	4.05020	6.33404	7.57697	8.21445	---	---	---
76	4.04336	6.30967	7.53208	8.14587	---	---	---
77	4.03597	6.28345	7.48402	8.07024	---	---	---

Age/Term	5	10	15	20	30	40	50
78	4.02798	6.25527	7.43199	7.98647	---	---	---
79	4.01936	6.22498	7.37497	7.89337	---	---	---
80	4.01006	6.19246	7.31176	7.78967	---	---	---
81	4.00003	6.15757	7.24090	---	---	---	---
82	3.98920	6.12016	7.16068	---	---	---	---
83	3.97753	6.07894	7.06915	---	---	---	---
84	3.96496	6.03225	6.96415	---	---	---	---
85	3.95141	5.97799	6.84329	---	---	---	---
86	3.93682	5.91355	---	---	---	---	---
87	3.92112	5.83575	---	---	---	---	---
88	3.90211	5.74083	---	---	---	---	---
89	3.87680	5.62438	---	---	---	---	---
90	3.84125	5.48138	---	---	---	---	---
91	3.79036	---	---	---	---	---	---
92	3.73115	---	---	---	---	---	---
93	3.66241	---	---	---	---	---	---
94	3.58289	---	---	---	---	---	---
95	3.49129	---	---	---	---	---	---
96	---	---	---	---	---	---	---
97	---	---	---	---	---	---	---
98	---	---	---	---	---	---	---
99	---	---	---	---	---	---	---
100	---	---	---	---	---	---	---

xi. $\ddot{a}_{x:\overline{n}|}$ for $i = 11\%$

Age/Term	5	10	15	20	30	40	50
50	4.05622	6.38340	7.71217	8.46544	9.12110	9.31217	9.35734
51	4.05529	6.38004	7.70581	8.45601	9.10631	9.29363	---
52	4.05428	6.37641	7.69893	8.44583	9.09037	9.27370	---
53	4.05319	6.37247	7.69149	8.43482	9.07319	9.25228	---
54	4.05201	6.36821	7.68344	8.42294	9.05469	9.22922	---
55	4.05073	6.36360	7.67475	8.41010	9.03477	9.20439	---
56	4.04934	6.35861	7.66534	8.39624	9.01333	9.17762	---
57	4.04785	6.35322	7.65519	8.38129	8.99028	9.14875	---
58	4.04622	6.34739	7.64421	8.36516	8.96550	9.11760	---
59	4.04447	6.34108	7.63236	8.34776	8.93889	9.08399	---
60	4.04257	6.33426	7.61956	8.32900	8.91031	9.04771	---
61	4.04051	6.32688	7.60573	8.30878	8.87966	---	---
62	4.03828	6.31891	7.59082	8.28700	8.84680	---	---
63	4.03587	6.31030	7.57472	8.26355	8.81151	---	---
64	4.03327	6.30099	7.55736	8.23830	8.77353	---	---
65	4.03045	6.29093	7.53864	8.21115	8.73256	---	---
66	4.02739	6.28006	7.51846	8.18195	8.68829	---	---
67	4.02409	6.26833	7.49671	8.15058	8.64038	---	---
68	4.02052	6.25565	7.47329	8.11689	8.58843	---	---
69	4.01665	6.24198	7.44808	8.08074	8.53207	---	---
70	4.01247	6.22723	7.42096	8.04198	8.47090	---	---
71	4.00795	6.21131	7.39179	8.00046	---	---	---
72	4.00306	6.19415	7.36045	7.95601	---	---	---
73	3.99778	6.17565	7.32679	7.90817	---	---	---
74	3.99207	6.15573	7.29066	7.85638	---	---	---
75	3.98590	6.13427	7.25192	7.79996	---	---	---
76	3.97924	6.11118	7.21041	7.73817	---	---	---
77	3.97204	6.08633	7.16597	7.67011	---	---	---

Age/Term	5	10	15	20	30	40	50
78	3.96426	6.05961	7.11787	7.59482	---	---	---
79	3.95587	6.03090	7.06521	7.51122	---	---	---
80	3.94681	6.00007	7.00688	7.41820	---	---	---
81	3.93704	5.96699	6.94160	---	---	---	---
82	3.92649	5.93152	6.86778	---	---	---	---
83	3.91513	5.89246	6.78364	---	---	---	---
84	3.90287	5.84827	6.68718	---	---	---	---
85	3.88968	5.79698	6.57617	---	---	---	---
86	3.87547	5.73613	---	---	---	---	---
87	3.86018	5.66270	---	---	---	---	---
88	3.84168	5.57311	---	---	---	---	---
89	3.81707	5.46309	---	---	---	---	---
90	3.78251	5.32777	---	---	---	---	---
91	3.73295	---	---	---	---	---	---
92	3.67528	---	---	---	---	---	---
93	3.60833	---	---	---	---	---	---
94	3.53087	---	---	---	---	---	---
95	3.44162	---	---	---	---	---	---
96	---	---	---	---	---	---	---
97	---	---	---	---	---	---	---
98	---	---	---	---	---	---	---
99	---	---	---	---	---	---	---
100	---	---	---	---	---	---	---

xii. $\ddot{a}_{x:\overline{n}|}$ for $i = 12\%$

Age/Term	5	10	15	20	30	40	50
50	3.99231	6.18241	7.37810	8.02621	8.55723	8.69882	8.72951
51	3.99140	6.17922	7.37221	8.01770	8.54441	8.68323	---
52	3.99042	6.17578	7.36585	8.00850	8.53058	8.66646	---
53	3.98936	6.17204	7.35898	7.99856	8.51567	8.64843	---
54	3.98821	6.16801	7.35154	7.98783	8.49961	8.62902	---
55	3.98696	6.16364	7.34350	7.97624	8.48232	8.60811	---
56	3.98561	6.15891	7.33481	7.96372	8.46370	8.58557	---
57	3.98415	6.15380	7.32542	7.95021	8.44367	8.56127	---
58	3.98257	6.14827	7.31527	7.93563	8.42214	8.53506	---
59	3.98086	6.14229	7.30432	7.91991	8.39900	8.50678	---
60	3.97901	6.13582	7.29248	7.90296	8.37414	8.47626	---
61	3.97700	6.12883	7.27970	7.88468	8.34746	---	---
62	3.97484	6.12127	7.26590	7.86500	8.31886	---	---
63	3.97249	6.11310	7.25102	7.84379	8.28812	---	---
64	3.96995	6.10427	7.23496	7.82096	8.25504	---	---
65	3.96720	6.09474	7.21765	7.79640	8.21937	---	---
66	3.96423	6.08443	7.19898	7.76999	8.18085	---	---
67	3.96101	6.07331	7.17887	7.74161	8.13918	---	---
68	3.95753	6.06129	7.15720	7.71112	8.09404	---	---
69	3.95376	6.04832	7.13387	7.67840	8.04510	---	---
70	3.94969	6.03433	7.10878	7.64331	7.99203	---	---
71	3.94529	6.01924	7.08178	7.60570	---	---	---
72	3.94052	6.00296	7.05277	7.56543	---	---	---
73	3.93538	5.98542	7.02161	7.52209	---	---	---
74	3.92981	5.96652	6.98816	7.47519	---	---	---
75	3.92380	5.94617	6.95229	7.42416	---	---	---
76	3.91731	5.92426	6.91384	7.36831	---	---	---
77	3.91030	5.90069	6.87267	7.30688	---	---	---

Age/Term	5	10	15	20	30	40	50
78	3.90273	5.87534	6.82812	7.23900	---	---	---
79	3.89455	5.84810	6.77939	7.16372	---	---	---
80	3.88572	5.81885	6.72549	7.08001	---	---	---
81	3.87620	5.78746	6.66522	---	---	---	---
82	3.86593	5.75380	6.59717	---	---	---	---
83	3.85485	5.71675	6.51968	---	---	---	---
84	3.84292	5.67489	6.43091	---	---	---	---
85	3.83006	5.62636	6.32877	---	---	---	---
86	3.81621	5.56884	---	---	---	---	---
87	3.80131	5.49948	---	---	---	---	---
88	3.78330	5.41483	---	---	---	---	---
89	3.75938	5.31080	---	---	---	---	---
90	3.72575	5.18264	---	---	---	---	---
91	3.67747	---	---	---	---	---	---
92	3.62130	---	---	---	---	---	---
93	3.55607	---	---	---	---	---	---
94	3.48058	---	---	---	---	---	---
95	3.39361	---	---	---	---	---	---
96	---	---	---	---	---	---	---
97	---	---	---	---	---	---	---
98	---	---	---	---	---	---	---
99	---	---	---	---	---	---	---
100	---	---	---	---	---	---	---

xiii. $\ddot{a}_{x:\overline{n}|}$ for $i = 13\%$

Age/Term	5	10	15	20	30	40	50
50	3.93057	5.99310	7.07021	7.62869	8.05983	8.16509	8.18603
51	3.92968	5.99008	7.06476	7.62098	8.04864	8.15186	---
52	3.92873	5.98680	7.05887	7.61265	8.03657	8.13762	---
53	3.92769	5.98326	7.05250	7.60365	8.02357	8.12230	---
54	3.92657	5.97943	7.04562	7.59392	8.00955	8.10581	---
55	3.92536	5.97529	7.03817	7.58342	7.99445	8.08804	---
56	3.92405	5.97080	7.03012	7.57208	7.97819	8.06888	---
57	3.92262	5.96595	7.02143	7.55985	7.96069	8.04824	---
58	3.92108	5.96070	7.01203	7.54664	7.94187	8.02596	---
59	3.91942	5.95503	7.00188	7.53240	7.92163	8.00194	---
60	3.91761	5.94889	6.99092	7.51703	7.89989	7.97603	---
61	3.91566	5.94225	6.97908	7.50046	7.87654	---	---
62	3.91355	5.93508	6.96631	7.48262	7.85149	---	---
63	3.91126	5.92733	6.95252	7.46339	7.82457	---	---
64	3.90878	5.91896	6.93764	7.44269	7.79560	---	---
65	3.90611	5.90990	6.92160	7.42042	7.76437	---	---
66	3.90321	5.90013	6.90430	7.39646	7.73065	---	---
67	3.90007	5.88957	6.88567	7.37071	7.69420	---	---
68	3.89668	5.87816	6.86559	7.34304	7.65474	---	---
69	3.89301	5.86585	6.84396	7.31333	7.61200	---	---
70	3.88904	5.85258	6.82070	7.28147	7.56567	---	---
71	3.88475	5.83825	6.79568	7.24731	---	---	---
72	3.88011	5.82280	6.76878	7.21073	---	---	---
73	3.87509	5.80615	6.73988	7.17136	---	---	---
74	3.86967	5.78821	6.70886	7.12877	---	---	---
75	3.86382	5.76888	6.67558	7.08247	---	---	---
76	3.85749	5.74808	6.63991	7.03185	---	---	---
77	3.85065	5.72570	6.60170	6.97624	---	---	---

Age/Term	5	10	15	20	30	40	50
78	3.84327	5.70163	6.56038	6.91486	---	---	---
79	3.83530	5.67577	6.51521	6.84686	---	---	---
80	3.82670	5.64798	6.46530	6.77132	---	---	---
81	3.81742	5.61817	6.40956	---	---	---	---
82	3.80741	5.58619	6.34671	---	---	---	---
83	3.79662	5.55102	6.27523	---	---	---	---
84	3.78498	5.51133	6.19338	---	---	---	---
85	3.77245	5.46537	6.09924	---	---	---	---
86	3.75896	5.41095	---	---	---	---	---
87	3.74443	5.34537	---	---	---	---	---
88	3.72690	5.26532	---	---	---	---	---
89	3.70362	5.16687	---	---	---	---	---
90	3.67090	5.04539	---	---	---	---	---
91	3.62386	---	---	---	---	---	---
92	3.56911	---	---	---	---	---	---
93	3.50554	---	---	---	---	---	---
94	3.43196	---	---	---	---	---	---
95	3.34717	---	---	---	---	---	---
96	---	---	---	---	---	---	---
97	---	---	---	---	---	---	---
98	---	---	---	---	---	---	---
99	---	---	---	---	---	---	---
100	---	---	---	---	---	---	---

xiv. $\ddot{a}_{x:\overline{n}|}$ for $i = 14\%$

Age/Term	5	10	15	20	30	40	50
50	3.87091	5.81462	6.78595	7.26789	7.61879	7.69730	7.71164
51	3.87005	5.81175	6.78090	7.26089	7.60898	7.68597	---
52	3.86911	5.80864	6.77544	7.25333	7.59839	7.67377	---
53	3.86811	5.80528	6.76953	7.24516	7.58698	7.66065	---
54	3.86701	5.80164	6.76314	7.23633	7.57467	7.64650	---
55	3.86583	5.79770	6.75624	7.22679	7.56142	7.63127	---
56	3.86455	5.79344	6.74877	7.21649	7.54713	7.61485	---
57	3.86316	5.78884	6.74071	7.20537	7.53176	7.59714	---
58	3.86166	5.78385	6.73199	7.19337	7.51522	7.57805	---
59	3.86004	5.77847	6.72258	7.18043	7.49743	7.55746	---
60	3.85828	5.77264	6.71240	7.16646	7.47830	7.53526	---
61	3.85637	5.76633	6.70142	7.15141	7.45776	---	---
62	3.85431	5.75952	6.68957	7.13519	7.43570	---	---
63	3.85209	5.75216	6.67677	7.11771	7.41200	---	---
64	3.84967	5.74420	6.66297	7.09889	7.38648	---	---
65	3.84706	5.73561	6.64808	7.07863	7.35899	---	---
66	3.84424	5.72632	6.63203	7.05684	7.32931	---	---
67	3.84118	5.71629	6.61473	7.03341	7.29725	---	---
68	3.83787	5.70546	6.59609	7.00823	7.26256	---	---
69	3.83430	5.69376	6.57601	6.98119	7.22500	---	---
70	3.83043	5.68115	6.55441	6.95218	7.18433	---	---
71	3.82625	5.66754	6.53117	6.92107	---	---	---
72	3.82172	5.65286	6.50619	6.88774	---	---	---
73	3.81683	5.63704	6.47935	6.85188	---	---	---
74	3.81155	5.61999	6.45053	6.81310	---	---	---
75	3.80584	5.60163	6.41961	6.77097	---	---	---
76	3.79967	5.58187	6.38646	6.72496	---	---	---
77	3.79301	5.56060	6.35094	6.67447	---	---	---

Age/Term	5	10	15	20	30	40	50
78	3.78581	5.53772	6.31254	6.61880	---	---	---
79	3.77805	5.51313	6.27059	6.55721	---	---	---
80	3.76966	5.48672	6.22430	6.48884	---	---	---
81	3.76061	5.45838	6.17267	---	---	---	---
82	3.75085	5.42798	6.11451	---	---	---	---
83	3.74033	5.39457	6.04845	---	---	---	---
84	3.72899	5.35689	5.97286	---	---	---	---
85	3.71677	5.31332	5.88595	---	---	---	---
86	3.70361	5.26180	---	---	---	---	---
87	3.68945	5.19974	---	---	---	---	---
88	3.67238	5.12398	---	---	---	---	---
89	3.64972	5.03072	---	---	---	---	---
90	3.61787	4.91547	---	---	---	---	---
91	3.57202	---	---	---	---	---	---
92	3.51865	---	---	---	---	---	---
93	3.45667	---	---	---	---	---	---
94	3.38493	---	---	---	---	---	---
95	3.30225	---	---	---	---	---	---
96	---	---	---	---	---	---	---
97	---	---	---	---	---	---	---
98	---	---	---	---	---	---	---
99	---	---	---	---	---	---	---
100	---	---	---	---	---	---	---

xv. $\ddot{a}_{x:\overline{n}|}$ for $i = 15\%$

Age/Term	5	10	15	20	30	40	50
50	3.81323	5.64619	6.52306	6.93955	7.22582	7.28455	7.29441
51	3.81239	5.64346	6.51836	6.93318	7.21716	7.27477	---
52	3.81148	5.64051	6.51329	6.92629	7.20783	7.26423	---
53	3.81050	5.63732	6.50780	6.91885	7.19776	7.25289	---
54	3.80944	5.63386	6.50187	6.91081	7.18690	7.24067	---
55	3.80828	5.63012	6.49545	6.90212	7.17519	7.22749	---
56	3.80703	5.62607	6.48852	6.89274	7.16258	7.21329	---
57	3.80568	5.62169	6.48102	6.88261	7.14900	7.19798	---
58	3.80422	5.61695	6.47292	6.87168	7.13439	7.18148	---
59	3.80264	5.61183	6.46417	6.85989	7.11867	7.16368	---
60	3.80092	5.60629	6.45472	6.84716	7.10175	7.14448	---
61	3.79906	5.60030	6.44451	6.83344	7.08358	---	---
62	3.79705	5.59382	6.43350	6.81866	7.06406	---	---
63	3.79488	5.58682	6.42161	6.80273	7.04308	---	---
64	3.79253	5.57926	6.40877	6.78556	7.02049	---	---
65	3.78998	5.57109	6.39493	6.76709	6.99615	---	---
66	3.78723	5.56226	6.38001	6.74722	6.96989	---	---
67	3.78425	5.55272	6.36392	6.72584	6.94153	---	---
68	3.78102	5.54242	6.34659	6.70287	6.91086	---	---
69	3.77753	5.53130	6.32792	6.67819	6.87768	---	---
70	3.77376	5.51931	6.30783	6.65171	6.84177	---	---
71	3.76968	5.50637	6.28622	6.62330	---	---	---
72	3.76527	5.49241	6.26298	6.59286	---	---	---
73	3.76051	5.47737	6.23800	6.56010	---	---	---
74	3.75535	5.46116	6.21118	6.52469	---	---	---
75	3.74979	5.44369	6.18240	6.48626	---	---	---
76	3.74377	5.42490	6.15154	6.44432	---	---	---
77	3.73728	5.40466	6.11847	6.39834	---	---	---

Age/Term	5	10	15	20	30	40	50
78	3.73026	5.38291	6.08273	6.34772	---	---	---
79	3.72268	5.35952	6.04372	6.29175	---	---	---
80	3.71450	5.33439	6.00070	6.22970	---	---	---
81	3.70568	5.30742	5.95278	---	---	---	---
82	3.69617	5.27850	5.89889	---	---	---	---
83	3.68590	5.24672	5.83772	---	---	---	---
84	3.67484	5.21093	5.76780	---	---	---	---
85	3.66293	5.16960	5.68742	---	---	---	---
86	3.65010	5.12076	---	---	---	---	---
87	3.63628	5.06198	---	---	---	---	---
88	3.61965	4.99022	---	---	---	---	---
89	3.59759	4.90181	---	---	---	---	---
90	3.56658	4.79238	---	---	---	---	---
91	3.52187	---	---	---	---	---	---
92	3.46983	---	---	---	---	---	---
93	3.40940	---	---	---	---	---	---
94	3.33942	---	---	---	---	---	---
95	3.25876	---	---	---	---	---	---
96	---	---	---	---	---	---	---
97	---	---	---	---	---	---	---
98	---	---	---	---	---	---	---
99	---	---	---	---	---	---	---
100	---	---	---	---	---	---	---

FUNDAMENTAL SYMBOLIC LETTERS

Interest

$i =$ the effective rate of interest, namely, the total interest earned on 1 in a year on the assumption that the actual interest (if receivable otherwise than yearly) is invested forthwith as it becomes due on the same terms as the original principal

$v = (1 + i)^{-1} =$ the present value of 1 due a year hence.

Mortality Tables

$(x) =$ a life aged x

$l_x =$ the number of persons who attain age x according to the mortality table

$d_x = l_x - l_{x+1} =$ the number of persons who die between ages x and $x + 1$ according to the mortality table

$q_x =$ probability that a life aged x will die within 1 year

$\mu_x = -\frac{1}{l_x}\frac{dl_x}{dx} =$ force of mortality at age x

$e_x =$ the curtate expectation of life (or average after-lifetime) of a life aged x

$a_x =$ an annuity, first payment at the end of year, to continue during the life of (x)

$\ddot{a}_x = 1 + a_x =$ an annuity due to continue during the life of (x), the first payment to be made at once

$A_x =$ an assurance payable at the end of the year of death of (x)

$a_{x:\overline{n}|} =$ an annuity to continue during the joint duration of the life of (x) and a term of n years certain; that is a temporary annuity for n years on the life of (x)

$\ddot{a}_{x:\overline{n}|=}$ Temporary immediate annuity due

$A_{x:\overline{n}|} =$ an assurance payable at the end of the year of death of (x) if the life dies within n years, or at the end of n years if (x) be then alive; that is an endowment assurance for n years

$P_x =$ the annual premium for an assurance payable at the end of the year of death of (x)

$P_{x:\overline{n}|} =$ the annual premium for an endowment assurance on (x) payable after n years or at the end of the year of death of (x) if he dies within n years.

Commutation Columns (*Single lives*)

$$D_x = v^x l_x$$
$$N_x = D_x + D_{x+1} + D_{x+2} + \cdots$$
$$S_x = N_x + N_{x+1} + N_{x+2} + \cdots$$
$$C_x = v^{x+1} d_x$$
$$M_x = C_x + C_{x+1} + C_{x+2} + \cdots$$
$$R_x = M_x + M_{x+1} + M_{x+2} + \cdots$$