

NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - HP TP
PRELIMINARY EXPERIENCE STUDY RESULTS
OVERVIEW

Table Number	Table Type	2-YEAR PERIOD ENDING 6/30/2011		10-YEAR PERIOD ENDING 6/30/2011		GRS' Ideal A/E Range	Comments
		Ratio of Actual to Expected	Average Number of Decrements per Year	Ratio of Actual to Expected	Average Number of Decrements per Year		
	Service Retiree Mortality					110-120%	Small dataset, but the current assumption does provide margin for future improvement in longevity.
1A	Men	117%	60	121%	50		
1B	Women	263%	1	150%	0		
1C	Men & Women	118%	61	121%	51		
1D	By Year						
	Disabled Retiree Mortality					100-120%	Small dataset, but the current assumption does provide margin for future improvement in longevity.
2A	Men	132%	33	124%	26		
2B	Women	0%	0	80%	0		
2C	Men & Women	131%	33	123%	26		
2D	By Year						

Note: There are no proposed changes provided in this Preliminary Report. Recommended assumptions changes (if any) will be included with the second engagement.

NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - HP TP
MORTALITY EXPERIENCE OF SERVICE RETIREES
MEN

TABLE 1A				2-YEAR PERIOD ENDING 6/30/2011					
Age	Actual Deaths	Total Exposed	Actual Rate (2) / (3)	Assumed Probability		Expected Deaths		Actual/Expected	
				Current	Proposed	Current (3) x (5)	Proposed (3) x (6)	Current (2) / (7)	Proposed (2) / (8)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
41	0	0	N/A	0.1022%		0		0%	
42	0	0	N/A	0.1113%		0		0%	
43	0	0	N/A	0.1196%		0		0%	
44	0	0	N/A	0.1273%		0		0%	
45	0	0	N/A	0.1344%		0		0%	
46	0	0	N/A	0.1409%		0		0%	
47	0	0	N/A	0.1468%		0		0%	
48	0	0	N/A	0.1522%		0		0%	
49	0	0	N/A	0.1570%		0		0%	
50	0	0	N/A	0.1614%		0		0%	
51	0	0	N/A	0.2065%		0		0%	
52	0	0	N/A	0.2484%		0		0%	
53	0	0	N/A	0.2934%		0		0%	
54	0	0	N/A	0.3374%		0		0%	
55	0	0	N/A	0.3691%		0		0%	
56	0	19	0.0000	0.4154%		0.1		0%	
57	2	48	0.0417	0.4636%		0.2		899%	
58	0	61	0.0000	0.5137%		0.3		0%	
59	0	69	0.0000	0.5537%		0.4		0%	
60	0	86	0.0000	0.5939%		0.5		0%	
61	2	93	0.0215	0.6754%		0.6		318%	
62	1	111	0.0090	0.7467%		0.8		121%	
63	0	122	0.0000	0.8383%		1.0		0%	
64	1	136	0.0074	0.9165%		1.2		80%	
65	2	241	0.0083	0.9973%		2.4		83%	
66	7	361	0.0194	1.1041%		4.0		176%	
67	6	377	0.0159	1.1921%		4.5		134%	
68	8	367	0.0218	1.3394%		4.9		163%	
69	8	351	0.0228	1.5179%		5.3		150%	
70	3	272	0.0110	1.6666%		4.5		66%	
71	3	225	0.0133	1.8533%		4.2		72%	
72	4	219	0.0183	2.0462%		4.5		89%	
73	3	199	0.0151	2.2756%		4.5		66%	
74	4	147	0.0272	2.5123%		3.7		108%	
75	5	111	0.0450	2.8155%		3.1		160%	
76	5	77	0.0649	3.0718%		2.4		211%	
77	4	58	0.0690	3.4074%		2.0		202%	
78	1	65	0.0154	3.9214%		2.5		39%	
79	5	66	0.0758	4.4692%		2.9		170%	
80	1	52	0.0192	5.0522%		2.6		38%	
81	6	48	0.1250	5.5792%		2.7		224%	
82	4	47	0.0851	6.1261%		2.9		139%	
83	1	44	0.0227	6.9247%		3.0		33%	
84	3	39	0.0769	7.8883%		3.1		98%	
85	3	40	0.0750	8.7037%		3.5		86%	
86	5	43	0.1163	9.5191%		4.1		122%	
87	2	32	0.0625	10.5553%		3.4		59%	
88	7	27	0.2593	12.1521%		3.3		213%	
89	4	21	0.1905	13.5234%		2.8		141%	
90	4	16	0.2500	15.2121%		2.4		164%	
91	1	6	0.1667	16.8338%		1.0		99%	
92	1	11	0.0909	18.8609%		2.1		48%	
93	3	8	0.3750	20.5332%		1.6		183%	
94	0	3	0.0000	22.2456%		0.7		0%	
95	0	2	0.0000	24.5417%		0.5		0%	
96	0	1	0.0000	26.4058%		0.3		0%	
97	1	1	1.0000	28.1805%		0.3		355%	
98	0	2	0.0000	30.5846%		0.6		0%	
99	0	2	0.0000	32.2083%		0.6		0%	
Subtotal	120	4,326				102.2		117%	
Other Ages	0	0	N/A	N/A		0		0%	
Total	120	4,326				102.2		117%	

NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - HP TP
MORTALITY EXPERIENCE OF SERVICE RETIREES
WOMEN

TABLE 1B				2-YEAR PERIOD ENDING 6/30/2011					
Age	Actual Deaths	Total Exposed	Actual Rate (2) / (3)	Assumed Probability		Expected Deaths		Actual/Expected	
				Current	Proposed	Current (3) x (5)	Proposed (3) x (6)	Current (2) / (7)	Proposed (2) / (8)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
41	0	0	N/A	0.0536%		0		0%	
42	0	0	N/A	0.0595%		0		0%	
43	0	0	N/A	0.0668%		0		0%	
44	0	0	N/A	0.0757%		0		0%	
45	0	0	N/A	0.0845%		0		0%	
46	0	0	N/A	0.0946%		0		0%	
47	0	0	N/A	0.1055%		0		0%	
48	0	0	N/A	0.1196%		0		0%	
49	0	0	N/A	0.1347%		0		0%	
50	0	0	N/A	0.1468%		0		0%	
51	0	0	N/A	0.1522%		0		0%	
52	0	0	N/A	0.1570%		0		0%	
53	0	0	N/A	0.1614%		0		0%	
54	0	0	N/A	0.2065%		0		0%	
55	0	0	N/A	0.2484%		0		0%	
56	0	0	N/A	0.2934%		0		0%	
57	0	0	N/A	0.3374%		0		0%	
58	0	0	N/A	0.3691%		0		0%	
59	0	0	N/A	0.4154%		0		0%	
60	0	0	N/A	0.4636%		0		0%	
61	0	0	N/A	0.5137%		0		0%	
62	0	0	N/A	0.5537%		0		0%	
63	0	0	N/A	0.5939%		0		0%	
64	0	0	N/A	0.6754%		0		0%	
65	0	0	N/A	0.7467%		0		0%	
66	0	0	N/A	0.8383%		0		0%	
67	0	0	N/A	0.9165%		0		0%	
68	0	2	0.0000	0.9973%		0.0		0%	
69	0	2	0.0000	1.1041%		0.0		0%	
70	0	1	0.0000	1.1921%		0.0		0%	
71	0	1	0.0000	1.3394%		0.0		0%	
72	0	0	N/A	1.5179%		0		0%	
73	0	0	N/A	1.6666%		0		0%	
74	0	0	N/A	1.8533%		0		0%	
75	0	0	N/A	2.0462%		0		0%	
76	0	2	0.0000	2.2756%		0.0		0%	
77	0	2	0.0000	2.5123%		0.1		0%	
78	0	0	N/A	2.8155%		0		0%	
79	0	0	N/A	3.0718%		0		0%	
80	0	0	N/A	3.4074%		0		0%	
81	0	0	N/A	3.9214%		0		0%	
82	0	0	N/A	4.4692%		0		0%	
83	1	1	1.0000	5.0522%		0.1		1979%	
84	0	0	N/A	5.5792%		0		0%	
85	0	0	N/A	6.1261%		0		0%	
86	0	0	N/A	6.9247%		0		0%	
87	0	1	0.0000	7.8883%		0.1		0%	
88	0	1	0.0000	8.7037%		0.1		0%	
89	0	0	N/A	9.5191%		0		0%	
90	0	0	N/A	10.5553%		0		0%	
91	0	0	N/A	12.1521%		0		0%	
92	0	0	N/A	13.5234%		0		0%	
93	0	0	N/A	15.2121%		0		0%	
94	0	0	N/A	16.8338%		0		0%	
95	0	0	N/A	18.5820%		0		0%	
96	0	0	N/A	19.8275%		0		0%	
97	0	0	N/A	21.4014%		0		0%	
98	0	0	N/A	22.2918%		0		0%	
99	0	0	N/A	22.9087%		0		0%	
Subtotal	1	13				0.4		263%	
Other Ages	0	0	N/A	N/A		0		0%	
Total	1	13				0.4		263%	

NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - HP TP
MORTALITY EXPERIENCE OF SERVICE RETIREES
MEN AND WOMEN

TABLE 1C				2-YEAR PERIOD ENDING 6/30/2011					
Age	Actual Deaths	Total Exposed	Actual Rate (2) / (3)	Assumed Probability		Expected Deaths		Actual/Expected	
				Current	Proposed	Current (3) x (5)	Proposed (3) x (6)	Current (2) / (7)	Proposed (2) / (8)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
41	0	0	N/A	0.0000%		0		0%	
42	0	0	N/A	0.0595%		0		0%	
43	0	0	N/A	0.0668%		0		0%	
44	0	0	N/A	0.0757%		0		0%	
45	0	0	N/A	0.0845%		0		0%	
46	0	0	N/A	0.0946%		0		0%	
47	0	0	N/A	0.1055%		0		0%	
48	0	0	N/A	0.1196%		0		0%	
49	0	0	N/A	0.1347%		0		0%	
50	0	0	N/A	0.1468%		0		0%	
51	0	0	N/A	0.1522%		0		0%	
52	0	0	N/A	0.1570%		0		0%	
53	0	0	N/A	0.1614%		0		0%	
54	0	0	N/A	0.2065%		0		0%	
55	0	0	N/A	0.2484%		0		0%	
56	0	19	0.0000	0.4093%		0.1		0%	
57	2	48	0.0417	0.4610%		0.2		899%	
58	0	61	0.0000	0.5114%		0.3		0%	
59	0	69	0.0000	0.5517%		0.4		0%	
60	0	86	0.0000	0.5924%		0.5		0%	
61	2	93	0.0215	0.6737%		0.6		318%	
62	1	111	0.0090	0.7450%		0.8		121%	
63	0	122	0.0000	0.8383%		1.0		0%	
64	1	136	0.0074	0.9147%		1.2		80%	
65	2	241	0.0083	0.9942%		2.4		83%	
66	7	361	0.0194	1.1026%		4.0		176%	
67	6	377	0.0159	1.1906%		4.5		134%	
68	8	369	0.0217	1.3366%		4.9		162%	
69	8	353	0.0227	1.5167%		5.3		150%	
70	3	273	0.0110	1.6666%		4.5		66%	
71	3	226	0.0133	1.8533%		4.2		72%	
72	4	219	0.0183	2.0462%		4.5		89%	
73	3	199	0.0151	2.2756%		4.5		66%	
74	4	147	0.0272	2.5123%		3.7		108%	
75	5	111	0.0450	2.8155%		3.1		160%	
76	5	79	0.0633	3.0718%		2.4		207%	
77	4	60	0.0667	3.3922%		2.0		197%	
78	1	65	0.0154	3.9046%		2.5		39%	
79	5	66	0.0758	4.4692%		2.9		170%	
80	1	52	0.0192	5.0522%		2.6		38%	
81	6	48	0.1250	5.5792%		2.7		224%	
82	4	47	0.0851	6.1261%		2.9		139%	
83	2	45	0.0444	6.9247%		3.1		65%	
84	3	39	0.0769	7.8883%		3.1		98%	
85	3	40	0.0750	8.7037%		3.5		86%	
86	5	43	0.1163	9.5191%		4.1		122%	
87	2	33	0.0606	10.5553%		3.5		58%	
88	7	28	0.2500	12.1521%		3.4		208%	
89	4	21	0.1905	13.5234%		2.8		141%	
90	4	16	0.2500	15.2121%		2.4		164%	
91	1	6	0.1667	16.8338%		1.0		99%	
92	1	11	0.0909	18.8609%		2.1		48%	
93	3	8	0.3750	20.5332%		1.6		183%	
94	0	3	0.0000	22.2456%		0.7		0%	
95	0	2	0.0000	24.5417%		0.5		0%	
96	0	1	0.0000	26.4058%		0.3		0%	
97	1	1	1.0000	28.1805%		0.3		355%	
98	0	2	0.0000	30.5846%		0.6		0%	
99	0	2	0.0000	32.2083%		0.6		0%	
Subtotal	121	4,339				102.6		118%	
Other Ages	0	0	N/A	N/A		0		0%	
Total	121	4,339				102.6		118%	

NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - HP TP
MORTALITY EXPERIENCE OF SERVICE RETIREES
MEN

TABLE 1A GROUPED				2-YEAR PERIOD ENDING 6/30/2011					
Age	Actual Deaths	Total Exposed	Actual Rate (2) / (3)	Assumed Probability		Expected Deaths		Actual/Expected	
				Current (7) / (3)	Proposed (8) / (3)	Current	Proposed	Current (2) / (7)	Proposed (2) / (8)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
41-44	0	0	N/A			0		0%	
45-49	0	0	N/A			0		0%	
50-54	0	0	N/A			0		0%	
55-59	2	197	0.0102	0.51%		1.0		201%	
60-64	4	548	0.0073	0.77%		4.2		94%	
65-69	31	1,697	0.0183	1.24%		21.1		147%	
70-74	17	1,062	0.0160	2.02%		21.4		79%	
75-79	20	377	0.0531	3.44%		13.0		154%	
80-84	15	230	0.0652	6.22%		14.3		105%	
85-89	21	163	0.1288	10.47%		17.1		123%	
90-94	9	44	0.2045	17.79%		7.8		115%	
95-99	1	8	0.1250	28.66%		2.3		44%	
Other Ages	0	0	N/A			0		0%	
Total	120	4,326				102.2		117%	

NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - HP TP
MORTALITY EXPERIENCE OF SERVICE RETIREES
WOMEN

TABLE 1B GROUPED				2-YEAR PERIOD ENDING 6/30/2011					
Age	Actual Deaths	Total Exposed	Actual Rate (2) / (3)	Assumed Probability		Expected Deaths		Actual/Expected	
				Current (7) / (3)	Proposed (8) / (3)	Current	Proposed	Current (2) / (7)	Proposed (2) / (8)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
41-44	0	0	N/A			0		0%	
45-49	0	0	N/A			0		0%	
50-54	0	0	N/A			0		0%	
55-59	0	0	N/A			0		0%	
60-64	0	0	N/A			0		0%	
65-69	0	4	0.0000	1.05%		0.0		0%	
70-74	0	2	0.0000	1.27%		0.0		0%	
75-79	0	4	0.0000	2.39%		0.1		0%	
80-84	1	1	1.0000	5.05%		0.1		1979%	
85-89	0	2	0.0000	8.30%		0.2		0%	
90-94	0	0	N/A			0		0%	
95-99	0	0	N/A			0		0%	
Other Ages	0	0	N/A			0		0%	
Total	1	13				0.4		263%	

NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - HP TP
MORTALITY EXPERIENCE OF SERVICE RETIREES
MEN AND WOMEN

TABLE 1C GROUPED				2-YEAR PERIOD ENDING 6/30/2011					
Age	Actual Deaths	Total Exposed	Actual Rate (2) / (3)	Assumed Probability		Expected Deaths		Actual/Expected	
				Current (7) / (3)	Proposed (8) / (3)	Current	Proposed	Current (2) / (7)	Proposed (2) / (8)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
41-44	0	0	N/A			0		0%	
45-49	0	0	N/A			0		0%	
50-54	0	0	N/A			0		0%	
55-59	2	197	0.0102	0.51%		1.0		201%	
60-64	4	548	0.0073	0.77%		4.2		94%	
65-69	31	1,701	0.0182	1.24%		21.2		146%	
70-74	17	1,064	0.0160	2.01%		21.4		79%	
75-79	20	381	0.0525	3.43%		13.1		153%	
80-84	16	231	0.0693	6.22%		14.4		111%	
85-89	21	165	0.1273	10.45%		17.2		122%	
90-94	9	44	0.2045	17.79%		7.8		115%	
95-99	1	8	0.1250	28.66%		2.3		44%	
Other Ages	0	0	N/A			0		0%	
Total	121	4,339				102.6		118%	

NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - HP TP
MORTALITY EXPERIENCE OF SERVICE RETIREES
MEN

TABLE 1A				10-YEAR PERIOD ENDING 6/30/2011					
Age	Actual Deaths	Total Exposed	Actual Rate (2) / (3)	Assumed Probability		Expected Deaths		Actual/Expected	
				Current	Proposed	Current (3) x (5)	Proposed (3) x (6)	Current (2) / (7)	Proposed (2) / (8)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
41	0	0	N/A	0.1022%		0		0%	
42	0	0	N/A	0.1113%		0		0%	
43	0	0	N/A	0.1196%		0		0%	
44	0	0	N/A	0.1273%		0		0%	
45	0	0	N/A	0.1344%		0		0%	
46	0	0	N/A	0.1409%		0		0%	
47	0	0	N/A	0.1468%		0		0%	
48	0	19	0.0000	0.1522%		0.0		0%	
49	1	51	0.0196	0.1570%		0.1		1249%	
50	0	85	0.0000	0.1614%		0.1		0%	
51	1	124	0.0081	0.2065%		0.3		391%	
52	1	176	0.0057	0.2484%		0.4		229%	
53	1	219	0.0046	0.2934%		0.6		156%	
54	2	291	0.0069	0.3374%		1.0		204%	
55	2	346	0.0058	0.3691%		1.3		157%	
56	1	433	0.0023	0.4154%		1.8		56%	
57	8	608	0.0132	0.4636%		2.8		284%	
58	2	811	0.0025	0.5137%		4.2		48%	
59	5	986	0.0051	0.5537%		5.5		92%	
60	14	1,151	0.0122	0.5939%		6.8		205%	
61	14	1,273	0.0110	0.6754%		8.6		163%	
62	15	1,338	0.0112	0.7467%		10.0		150%	
63	19	1,412	0.0135	0.8383%		11.8		161%	
64	16	1,454	0.0110	0.9165%		13.3		120%	
65	18	1,491	0.0121	0.9973%		14.9		121%	
66	22	1,456	0.0151	1.1041%		16.1		137%	
67	21	1,337	0.0157	1.1921%		15.9		132%	
68	22	1,159	0.0190	1.3394%		15.5		142%	
69	16	1,007	0.0159	1.5179%		15.3		105%	
70	13	848	0.0153	1.6666%		14.1		92%	
71	14	717	0.0195	1.8533%		13.3		105%	
72	10	617	0.0162	2.0462%		12.6		79%	
73	14	533	0.0263	2.2756%		12.1		115%	
74	12	442	0.0271	2.5123%		11.1		108%	
75	23	394	0.0584	2.8155%		11.1		207%	
76	11	344	0.0320	3.0718%		10.6		104%	
77	20	326	0.0613	3.4074%		11.1		180%	
78	13	311	0.0418	3.9214%		12.2		107%	
79	18	295	0.0610	4.4692%		13.2		137%	
80	15	272	0.0551	5.0522%		13.7		109%	
81	17	247	0.0688	5.5792%		13.8		123%	
82	17	228	0.0746	6.1261%		14.0		122%	
83	10	198	0.0505	6.9247%		13.7		73%	
84	8	179	0.0447	7.8883%		14.1		57%	
85	16	159	0.1006	8.7037%		13.8		116%	
86	13	133	0.0977	9.5191%		12.7		103%	
87	9	103	0.0874	10.5553%		10.9		83%	
88	14	79	0.1772	12.1521%		9.6		146%	
89	12	58	0.2069	13.5234%		7.8		153%	
90	9	41	0.2195	15.2121%		6.2		144%	
91	2	24	0.0833	16.8338%		4.0		50%	
92	4	23	0.1739	18.8609%		4.3		92%	
93	4	15	0.2667	20.5332%		3.1		130%	
94	0	8	0.0000	22.2456%		1.8		0%	
95	1	6	0.1667	24.5417%		1.5		68%	
96	0	6	0.0000	26.4058%		1.6		0%	
97	3	5	0.6000	28.1805%		1.4		213%	
98	0	2	0.0000	30.5846%		0.6		0%	
99	0	2	0.0000	32.2083%		0.6		0%	
Subtotal	503	23,842				417.1		121%	
Other Ages	0	0	N/A	N/A		0		0%	
Total	503	23,842				417.1		121%	

NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - HP TP
MORTALITY EXPERIENCE OF SERVICE RETIREES
WOMEN

TABLE 1B				10-YEAR PERIOD ENDING 6/30/2011					
Age	Actual Deaths	Total Exposed	Actual Rate (2) / (3)	Assumed Probability		Expected Deaths		Actual/Expected	
				Current	Proposed	Current (3) x (5)	Proposed (3) x (6)	Current (2) / (7)	Proposed (2) / (8)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
41	0	0	N/A	0.0536%		0		0%	
42	0	0	N/A	0.0595%		0		0%	
43	0	0	N/A	0.0668%		0		0%	
44	0	0	N/A	0.0757%		0		0%	
45	0	0	N/A	0.0845%		0		0%	
46	0	0	N/A	0.0946%		0		0%	
47	0	0	N/A	0.1055%		0		0%	
48	0	0	N/A	0.1196%		0		0%	
49	0	0	N/A	0.1347%		0		0%	
50	0	0	N/A	0.1468%		0		0%	
51	0	0	N/A	0.1522%		0		0%	
52	0	0	N/A	0.1570%		0		0%	
53	0	0	N/A	0.1614%		0		0%	
54	0	0	N/A	0.2065%		0		0%	
55	0	0	N/A	0.2484%		0		0%	
56	0	0	N/A	0.2934%		0		0%	
57	0	0	N/A	0.3374%		0		0%	
58	0	0	N/A	0.3691%		0		0%	
59	0	0	N/A	0.4154%		0		0%	
60	0	2	0.0000	0.4636%		0.0		0%	
61	0	2	0.0000	0.5137%		0.0		0%	
62	0	3	0.0000	0.5537%		0.0		0%	
63	0	3	0.0000	0.5939%		0.0		0%	
64	0	3	0.0000	0.6754%		0.0		0%	
65	0	3	0.0000	0.7467%		0.0		0%	
66	0	3	0.0000	0.8383%		0.0		0%	
67	0	3	0.0000	0.9165%		0.0		0%	
68	0	5	0.0000	0.9973%		0.0		0%	
69	0	5	0.0000	1.1041%		0.1		0%	
70	0	3	0.0000	1.1921%		0.0		0%	
71	0	4	0.0000	1.3394%		0.1		0%	
72	0	3	0.0000	1.5179%		0.0		0%	
73	0	3	0.0000	1.6666%		0.0		0%	
74	0	3	0.0000	1.8533%		0.1		0%	
75	1	4	0.2500	2.0462%		0.1		1222%	
76	0	3	0.0000	2.2756%		0.1		0%	
77	0	3	0.0000	2.5123%		0.1		0%	
78	0	1	0.0000	2.8155%		0.0		0%	
79	0	2	0.0000	3.0718%		0.1		0%	
80	0	2	0.0000	3.4074%		0.1		0%	
81	0	2	0.0000	3.9214%		0.1		0%	
82	0	2	0.0000	4.4692%		0.1		0%	
83	1	2	0.5000	5.0522%		0.1		990%	
84	0	1	0.0000	5.5792%		0.1		0%	
85	0	1	0.0000	6.1261%		0.1		0%	
86	0	1	0.0000	6.9247%		0.1		0%	
87	0	1	0.0000	7.8883%		0.1		0%	
88	0	1	0.0000	8.7037%		0.1		0%	
89	0	0	N/A	9.5191%		0		0%	
90	0	0	N/A	10.5553%		0		0%	
91	0	0	N/A	12.1521%		0		0%	
92	0	0	N/A	13.5234%		0		0%	
93	0	1	0.0000	15.2121%		0.2		0%	
94	0	1	0.0000	16.8338%		0.2		0%	
95	1	1	1.0000	18.5820%		0.2		538%	
96	0	0	N/A	19.8275%		0		0%	
97	0	0	N/A	21.4014%		0		0%	
98	0	0	N/A	22.2918%		0		0%	
99	0	0	N/A	22.9087%		0		0%	
Subtotal	3	77				2.0		150%	
Other Ages	0	0	N/A	N/A		0		0%	
Total	3	77				2.0		150%	

NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - HP TP
MORTALITY EXPERIENCE OF SERVICE RETIREES
MEN AND WOMEN

TABLE 1C				10-YEAR PERIOD ENDING 6/30/2011					
Age	Actual Deaths	Total Exposed	Actual Rate (2) / (3)	Assumed Probability		Expected Deaths		Actual/Expected	
				Current	Proposed	Current (3) x (5)	Proposed (3) x (6)	Current (2) / (7)	Proposed (2) / (8)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
41	0	0	N/A	0.0536%		0		0%	
42	0	0	N/A	0.0595%		0		0%	
43	0	0	N/A	0.0668%		0		0%	
44	0	0	N/A	0.0757%		0		0%	
45	0	0	N/A	0.0845%		0		0%	
46	0	0	N/A	0.0946%		0		0%	
47	0	0	N/A	0.1055%		0		0%	
48	0	19	0.0000	0.1325%		0.0		0%	
49	1	51	0.0196	0.1495%		0.1		1249%	
50	0	85	0.0000	0.1585%		0.1		0%	
51	1	124	0.0081	0.1993%		0.3		391%	
52	1	176	0.0057	0.2408%		0.4		229%	
53	1	219	0.0046	0.2865%		0.6		156%	
54	2	291	0.0069	0.3326%		1.0		204%	
55	2	346	0.0058	0.3667%		1.3		157%	
56	1	433	0.0023	0.4140%		1.8		56%	
57	8	608	0.0132	0.4624%		2.8		284%	
58	2	811	0.0025	0.5126%		4.2		48%	
59	5	986	0.0051	0.5527%		5.5		92%	
60	14	1,153	0.0121	0.5930%		6.8		205%	
61	14	1,275	0.0110	0.6745%		8.6		163%	
62	15	1,341	0.0112	0.7457%		10.0		150%	
63	19	1,415	0.0134	0.8373%		11.9		160%	
64	16	1,457	0.0110	0.9155%		13.3		120%	
65	18	1,494	0.0120	0.9963%		14.9		121%	
66	22	1,459	0.0151	1.1032%		16.1		137%	
67	21	1,340	0.0157	1.1915%		16.0		132%	
68	22	1,164	0.0189	1.3385%		15.6		141%	
69	16	1,012	0.0158	1.5171%		15.3		104%	
70	13	851	0.0153	1.6660%		14.2		92%	
71	14	721	0.0194	1.8526%		13.3		105%	
72	10	620	0.0161	2.0453%		12.7		79%	
73	14	536	0.0261	2.2745%		12.2		115%	
74	12	445	0.0270	2.5108%		11.2		108%	
75	24	398	0.0603	2.8136%		11.2		215%	
76	11	347	0.0317	3.0695%		10.6		103%	
77	20	329	0.0608	3.4047%		11.2		179%	
78	13	312	0.0417	3.9179%		12.2		106%	
79	18	297	0.0606	4.4692%		13.2		136%	
80	15	274	0.0547	5.0522%		13.8		109%	
81	17	249	0.0683	5.5792%		13.9		123%	
82	17	230	0.0739	6.1261%		14.1		121%	
83	11	200	0.0550	6.9247%		13.8		80%	
84	8	180	0.0444	7.8883%		14.2		56%	
85	16	160	0.1000	8.7037%		13.9		115%	
86	13	134	0.0970	9.5191%		12.7		102%	
87	9	104	0.0865	10.5553%		11.0		82%	
88	14	80	0.1750	12.1521%		9.7		145%	
89	12	58	0.2069	13.5234%		7.8		153%	
90	9	41	0.2195	15.2121%		6.2		144%	
91	2	24	0.0833	16.8338%		4.0		50%	
92	4	23	0.1739	18.8609%		4.3		92%	
93	4	16	0.2500	20.5332%		3.2		124%	
94	0	9	0.0000	22.2456%		1.9		0%	
95	2	7	0.2857	24.5417%		1.7		121%	
96	0	6	0.0000	26.4058%		1.6		0%	
97	3	5	0.6000	28.1805%		1.4		213%	
98	0	2	0.0000	30.5846%		0.6		0%	
99	0	2	0.0000	32.2083%		0.6		0%	
Subtotal	506	23,919				419.1		121%	
Other Ages	0	0	N/A	N/A		0		0%	
Total	506	23,919				419.1		121%	

NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - HP TP
MORTALITY EXPERIENCE OF SERVICE RETIREES
MEN

TABLE 1A GROUPED				10-YEAR PERIOD ENDING 6/30/2011					
Age	Actual Deaths	Total Exposed	Actual Rate (2) / (3)	Assumed Probability		Expected Deaths		Actual/Expected	
				Current (7) / (3)	Proposed (8) / (3)	Current	Proposed	Current (2) / (7)	Proposed (2) / (8)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
41-44	0	0	N/A			0		0%	
45-49	1	70	0.0143	0.16%		0.1		918%	
50-54	5	895	0.0056	0.27%		2.5		204%	
55-59	18	3,184	0.0057	0.49%		15.5		116%	
60-64	78	6,628	0.0118	0.76%		50.6		154%	
65-69	99	6,450	0.0153	1.20%		77.7		127%	
70-74	63	3,157	0.0200	2.00%		63.3		100%	
75-79	85	1,670	0.0509	3.48%		58.1		146%	
80-84	67	1,124	0.0596	6.17%		69.3		97%	
85-89	64	532	0.1203	10.30%		54.8		117%	
90-94	19	111	0.1712	17.54%		19.5		98%	
95-99	4	21	0.1905	27.25%		5.7		70%	
Other Ages	0	0	N/A			0		0%	
Total	503	23,842				417.1		121%	

NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - HP TP
MORTALITY EXPERIENCE OF SERVICE RETIREES
WOMEN

TABLE 1B GROUPED				10-YEAR PERIOD ENDING 6/30/2011					
Age	Actual Deaths	Total Exposed	Actual Rate (2) / (3)	Assumed Probability		Expected Deaths		Actual/Expected	
				Current (7) / (3)	Proposed (8) / (3)	Current	Proposed	Current (2) / (7)	Proposed (2) / (8)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
41-44	0	0	N/A			0		0%	
45-49	0	0	N/A			0		0%	
50-54	0	0	N/A			0		0%	
55-59	0	0	N/A			0		0%	
60-64	0	13	0.0000	0.57%		0.1		0%	
65-69	0	19	0.0000	0.95%		0.2		0%	
70-74	0	16	0.0000	1.50%		0.2		0%	
75-79	1	13	0.0769	2.42%		0.3		317%	
80-84	1	9	0.1111	4.36%		0.4		255%	
85-89	0	4	0.0000	7.41%		0.3		0%	
90-94	0	2	0.0000	16.02%		0.3		0%	
95-99	1	1	1.0000	18.58%		0.2		538%	
Other Ages	0	0	N/A			0		0%	
Total	3	77				2.0		150%	

NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - HP TP
MORTALITY EXPERIENCE OF SERVICE RETIREES
MEN AND WOMEN

TABLE 1C GROUPED				10-YEAR PERIOD ENDING 6/30/2011					
Age	Actual Deaths	Total Exposed	Actual Rate (2) / (3)	Assumed Probability		Expected Deaths		Actual/Expected	
				Current (7) / (3)	Proposed (8) / (3)	Current	Proposed	Current (2) / (7)	Proposed (2) / (8)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
41-44	0	0	N/A			0		0%	
45-49	1	70	0.0143	0.16%		0.1		918%	
50-54	5	895	0.0056	0.27%		2.5		204%	
55-59	18	3,184	0.0057	0.49%		15.5		116%	
60-64	78	6,641	0.0117	0.76%		50.7		154%	
65-69	99	6,469	0.0153	1.20%		77.9		127%	
70-74	63	3,173	0.0199	2.00%		63.5		99%	
75-79	86	1,683	0.0511	3.47%		58.5		147%	
80-84	68	1,133	0.0600	6.15%		69.7		98%	
85-89	64	536	0.1194	10.28%		55.1		116%	
90-94	19	113	0.1681	17.52%		19.8		96%	
95-99	5	22	0.2273	26.85%		5.9		85%	
Other Ages	0	0	N/A			0		0%	
Total	506	23,919				419.1		121%	

NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - HP TP
MORTALITY EXPERIENCE OF SERVICE RETIREES
MEN AND WOMEN

Plan Year Ending June 30, (1)	TABLE 1D Life Years Exposed (2)	10-YEAR PERIOD ENDING 6/30/2011				
		Actual Deaths (3)	Expected Deaths (4)	Actual / Expected (5)	Mortality Rate	
					Actual (3) / (2) (6)	Expected (4) / (2) (7)
2002	2,603	35	32.1	109%	1.34%	1.23%
2003	2,566	35	34.0	103%	1.36%	1.33%
2004	2,531	49	36.1	136%	1.94%	1.43%
2005	2,482	54	38.0	142%	2.18%	1.53%
2006	2,428	55	40.2	137%	2.27%	1.66%
2007	2,373	51	43.0	119%	2.15%	1.81%
2008	2,321	52	45.5	114%	2.24%	1.96%
2009	2,268	54	48.0	113%	2.38%	2.12%
2010	2,213	65	50.4	129%	2.94%	2.28%
2011	2,134	56	51.9	108%	2.62%	2.43%
Total	23,919	506	419.1	121%	2.12%	1.75%

NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - HP TP
MORTALITY EXPERIENCE OF DISABILITY RETIREES
MEN

TABLE 2A				2-YEAR PERIOD ENDING 6/30/2011					
Age	Actual Deaths	Total Exposed	Actual Rate (2) / (3)	Assumed Probability		Expected Deaths		Actual/Expected	
				Current	Proposed	Current (3) x (5)	Proposed (3) x (6)	Current (2) / (7)	Proposed (2) / (8)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
41	0	4	0.0000	0.1628%		0.0		0%	
42	0	6	0.0000	0.1752%		0.0		0%	
43	0	3	0.0000	0.1870%		0.0		0%	
44	0	6	0.0000	0.1982%		0.0		0%	
45	1	20	0.0500	0.2089%		0.0		2393%	
46	0	31	0.0000	0.2117%		0.1		0%	
47	0	25	0.0000	0.2134%		0.1		0%	
48	0	24	0.0000	0.2140%		0.1		0%	
49	0	39	0.0000	0.2668%		0.1		0%	
50	0	42	0.0000	0.3124%		0.1		0%	
51	0	42	0.0000	0.3510%		0.1		0%	
52	0	36	0.0000	0.3832%		0.1		0%	
53	1	38	0.0263	0.3974%		0.2		662%	
54	0	31	0.0000	0.4179%		0.1		0%	
55	0	31	0.0000	0.4636%		0.1		0%	
56	0	36	0.0000	0.5137%		0.2		0%	
57	0	47	0.0000	0.5537%		0.3		0%	
58	1	53	0.0189	0.5939%		0.3		318%	
59	2	48	0.0417	0.6754%		0.3		617%	
60	0	50	0.0000	0.7467%		0.4		0%	
61	0	63	0.0000	0.8383%		0.5		0%	
62	0	75	0.0000	0.9165%		0.7		0%	
63	3	67	0.0448	0.9973%		0.7		449%	
64	2	78	0.0256	1.1041%		0.9		232%	
65	3	140	0.0214	1.1921%		1.7		180%	
66	2	181	0.0110	1.3394%		2.4		82%	
67	4	180	0.0222	1.5179%		2.7		146%	
68	2	162	0.0123	1.6666%		2.7		74%	
69	5	140	0.0357	1.8533%		2.6		193%	
70	2	114	0.0175	2.0462%		2.3		86%	
71	0	93	0.0000	2.2756%		2.1		0%	
72	3	89	0.0337	2.5123%		2.2		134%	
73	3	89	0.0337	2.8155%		2.5		120%	
74	2	76	0.0263	3.0718%		2.3		86%	
75	2	46	0.0435	3.4074%		1.6		128%	
76	1	24	0.0417	3.9214%		0.9		106%	
77	2	26	0.0769	4.4692%		1.2		172%	
78	2	26	0.0769	5.0522%		1.3		152%	
79	2	28	0.0714	5.5792%		1.6		128%	
80	1	16	0.0625	6.1261%		1.0		102%	
81	0	10	0.0000	6.9247%		0.7		0%	
82	3	21	0.1429	7.8883%		1.7		181%	
83	2	18	0.1111	8.7037%		1.6		128%	
84	1	17	0.0588	9.5191%		1.6		62%	
85	3	14	0.2143	10.5553%		1.5		203%	
86	4	11	0.3636	12.1521%		1.3		299%	
87	1	9	0.1111	13.5234%		1.2		82%	
88	2	6	0.3333	15.2121%		0.9		219%	
89	2	5	0.4000	16.8338%		0.8		238%	
90	0	1	0.0000	18.8609%		0.2		0%	
91	1	3	0.3333	20.5332%		0.6		162%	
92	0	1	0.0000	22.2456%		0.2		0%	
93	0	1	0.0000	24.5417%		0.2		0%	
94	0	1	0.0000	26.4058%		0.3		0%	
95	0	0	N/A	28.1805%		0		0%	
96	0	0	N/A	30.5846%		0		0%	
97	0	0	N/A	32.2083%		0		0%	
98	0	0	N/A	33.6045%		0		0%	
99	0	0	N/A	35.8628%		0		0%	
Subtotal	65	2,443				49.4		132%	
Other Ages	0	0	N/A	N/A		0.0		0%	
Total	65	2,443				49.4		132%	

NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - HP TP
MORTALITY EXPERIENCE OF DISABILITY RETIREES
WOMEN

TABLE 2B				2-YEAR PERIOD ENDING 6/30/2011					
Age	Actual Deaths	Total Exposed	Actual Rate (2) / (3)	Assumed Probability		Expected Deaths		Actual/Expected	
				Current	Proposed	Current (3) x (5)	Proposed (3) x (6)	Current (2) / (7)	Proposed (2) / (8)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
41	0	0	N/A	0.0668%		0		0%	
42	0	1	0.0000	0.0757%		0.0		0%	
43	0	4	0.0000	0.0863%		0.0		0%	
44	0	5	0.0000	0.0987%		0.0		0%	
45	0	3	0.0000	0.1101%		0.0		0%	
46	0	2	0.0000	0.1222%		0.0		0%	
47	0	4	0.0000	0.1347%		0.0		0%	
48	0	8	0.0000	0.1505%		0.0		0%	
49	0	8	0.0000	0.1697%		0.0		0%	
50	0	6	0.0000	0.1945%		0.0		0%	
51	0	8	0.0000	0.2140%		0.0		0%	
52	0	6	0.0000	0.2575%		0.0		0%	
53	0	5	0.0000	0.2980%		0.0		0%	
54	0	7	0.0000	0.3510%		0.0		0%	
55	0	4	0.0000	0.3832%		0.0		0%	
56	0	1	0.0000	0.3974%		0.0		0%	
57	0	1	0.0000	0.4179%		0.0		0%	
58	0	1	0.0000	0.4636%		0.0		0%	
59	0	1	0.0000	0.5137%		0.0		0%	
60	0	1	0.0000	0.5537%		0.0		0%	
61	0	1	0.0000	0.5939%		0.0		0%	
62	0	1	0.0000	0.6754%		0.0		0%	
63	0	0	N/A	0.7467%		0		0%	
64	0	1	0.0000	0.8383%		0.0		0%	
65	0	3	0.0000	0.9165%		0.0		0%	
66	0	2	0.0000	0.9973%		0.0		0%	
67	0	2	0.0000	1.1041%		0.0		0%	
68	0	3	0.0000	1.1921%		0.0		0%	
69	0	1	0.0000	1.3394%		0.0		0%	
70	0	0	N/A	1.5179%		0		0%	
71	0	0	N/A	1.6666%		0		0%	
72	0	0	N/A	1.8533%		0		0%	
73	0	0	N/A	2.0462%		0		0%	
74	0	0	N/A	2.2756%		0		0%	
75	0	0	N/A	2.5123%		0		0%	
76	0	0	N/A	2.8155%		0		0%	
77	0	1	0.0000	3.0718%		0.0		0%	
78	0	1	0.0000	3.4074%		0.0		0%	
79	0	0	N/A	3.9214%		0		0%	
80	0	0	N/A	4.4692%		0		0%	
81	0	0	N/A	5.0522%		0		0%	
82	0	0	N/A	5.5792%		0		0%	
83	0	0	N/A	6.1261%		0		0%	
84	0	0	N/A	6.9247%		0		0%	
85	0	0	N/A	7.8883%		0		0%	
86	0	0	N/A	8.7037%		0		0%	
87	0	0	N/A	9.5191%		0		0%	
88	0	0	N/A	10.5553%		0		0%	
89	0	0	N/A	12.1521%		0		0%	
90	0	0	N/A	13.5234%		0		0%	
91	0	0	N/A	15.2121%		0		0%	
92	0	0	N/A	16.4390%		0		0%	
93	0	0	N/A	17.9273%		0		0%	
94	0	0	N/A	19.1145%		0		0%	
95	0	0	N/A	20.1960%		0		0%	
96	0	0	N/A	21.1578%		0		0%	
97	0	0	N/A	22.4894%		0		0%	
98	0	0	N/A	23.0808%		0		0%	
99	0	0	N/A	23.3995%		0		0%	
Subtotal	0	92				0.4		0%	
Other Ages	0	0	N/A	N/A		0		0%	
Total	0	92				0.4		0%	

NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - HP TP
MORTALITY EXPERIENCE OF DISABILITY RETIREES
MEN AND WOMEN

TABLE 2C				2-YEAR PERIOD ENDING 6/30/2011					
Age	Actual Deaths	Total Exposed	Actual Rate (2) / (3)	Assumed Probability		Expected Deaths		Actual/Expected	
				Current	Proposed	Current (3) x (5)	Proposed (3) x (6)	Current (2) / (7)	Proposed (2) / (8)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
41	0	4	0.0000	0.1628%		0.0		0%	
42	0	7	0.0000	0.1752%		0.0		0%	
43	0	7	0.0000	0.1870%		0.0		0%	
44	0	11	0.0000	0.1982%		0.0		0%	
45	1	23	0.0435	0.2089%		0.0		2218%	
46	0	33	0.0000	0.2117%		0.1		0%	
47	0	29	0.0000	0.2134%		0.1		0%	
48	0	32	0.0000	0.2140%		0.1		0%	
49	0	47	0.0000	0.2668%		0.1		0%	
50	0	48	0.0000	0.3124%		0.1		0%	
51	0	50	0.0000	0.3510%		0.2		0%	
52	0	42	0.0000	0.3832%		0.2		0%	
53	1	43	0.0233	0.3974%		0.2		603%	
54	0	38	0.0000	0.4179%		0.2		0%	
55	0	35	0.0000	0.4636%		0.2		0%	
56	0	37	0.0000	0.5137%		0.2		0%	
57	0	48	0.0000	0.5537%		0.3		0%	
58	1	54	0.0185	0.5939%		0.3		313%	
59	2	49	0.0408	0.6754%		0.3		607%	
60	0	51	0.0000	0.7467%		0.4		0%	
61	0	64	0.0000	0.8383%		0.5		0%	
62	0	76	0.0000	0.9165%		0.7		0%	
63	3	67	0.0448	0.9973%		0.7		449%	
64	2	79	0.0253	1.1041%		0.9		230%	
65	3	143	0.0210	1.1921%		1.7		177%	
66	2	183	0.0109	1.3394%		2.4		82%	
67	4	182	0.0220	1.5179%		2.8		145%	
68	2	165	0.0121	1.6666%		2.7		73%	
69	5	141	0.0355	1.8533%		2.6		192%	
70	2	114	0.0175	2.0462%		2.3		86%	
71	0	93	0.0000	2.2756%		2.1		0%	
72	3	89	0.0337	2.5123%		2.2		134%	
73	3	89	0.0337	2.8155%		2.5		120%	
74	2	76	0.0263	3.0718%		2.3		86%	
75	2	46	0.0435	3.4074%		1.6		128%	
76	1	24	0.0417	3.9214%		0.9		106%	
77	2	27	0.0741	4.4692%		1.2		168%	
78	2	27	0.0741	5.0522%		1.3		148%	
79	2	28	0.0714	5.5792%		1.6		128%	
80	1	16	0.0625	6.1261%		1.0		102%	
81	0	10	0.0000	6.9247%		0.7		0%	
82	3	21	0.1429	7.8883%		1.7		181%	
83	2	18	0.1111	8.7037%		1.6		128%	
84	1	17	0.0588	9.5191%		1.6		62%	
85	3	14	0.2143	10.5553%		1.5		203%	
86	4	11	0.3636	12.1521%		1.3		299%	
87	1	9	0.1111	13.5234%		1.2		82%	
88	2	6	0.3333	15.2121%		0.9		219%	
89	2	5	0.4000	16.8338%		0.8		238%	
90	0	1	0.0000	18.8609%		0.2		0%	
91	1	3	0.3333	20.5332%		0.6		162%	
92	0	1	0.0000	22.2456%		0.2		0%	
93	0	1	0.0000	24.5417%		0.2		0%	
94	0	1	0.0000	26.4058%		0.3		0%	
95	0	0	N/A	0.0000%		0		0%	
96	0	0	N/A	0.0000%		0		0%	
97	0	0	N/A	0.0000%		0		0%	
98	0	0	N/A	0.0000%		0		0%	
99	0	0	N/A	0.0000%		0		0%	
Subtotal	65	2,535				49.8		131%	
Other Ages	0	0	N/A	N/A		0.0		0%	
Total	65	2,535				49.8		131%	

NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - HP TP
MORTALITY EXPERIENCE OF DISABILITY RETIREES
MEN

TABLE 2A GROUPED				2-YEAR PERIOD ENDING 6/30/2011					
Age	Actual Deaths	Total Exposed	Actual Rate (2) / (3)	Assumed Probability		Expected Deaths		Actual/Expected	
				Current (7) / (3)	Proposed (8) / (3)	Current	Proposed	Current (2) / (7)	Proposed (2) / (8)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
41-44	0	19	0.0000	0.18%		0.0		0%	
45-49	1	139	0.0072	0.23%		0.3		316%	
50-54	1	189	0.0053	0.37%		0.7		143%	
55-59	3	215	0.0140	0.57%		1.2		244%	
60-64	5	333	0.0150	0.94%		3.1		160%	
65-69	16	803	0.0199	1.51%		12.1		132%	
70-74	10	461	0.0217	2.50%		11.5		87%	
75-79	9	150	0.0600	4.36%		6.5		137%	
80-84	7	82	0.0854	7.94%		6.5		107%	
85-89	12	45	0.2667	12.86%		5.8		207%	
90-94	1	7	0.1429	21.95%		1.5		65%	
95-99	0	0	N/A			0		0%	
Other Ages	0	0	N/A			0.0		0%	
Total	65	2,443				49.4		132%	

NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - HP TP
MORTALITY EXPERIENCE OF DISABILITY RETIREES
WOMEN

TABLE 2B GROUPED				2-YEAR PERIOD ENDING 6/30/2011					
Age	Actual Deaths	Total Exposed	Actual Rate (2) / (3)	Assumed Probability		Expected Deaths		Actual/Expected	
				Current (7) / (3)	Proposed (8) / (3)	Current	Proposed	Current (2) / (7)	Proposed (2) / (8)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
41-44	0	10	0.0000	0.09%		0.0		0%	
45-49	0	25	0.0000	0.15%		0.0		0%	
50-54	0	32	0.0000	0.26%		0.1		0%	
55-59	0	8	0.0000	0.42%		0.0		0%	
60-64	0	4	0.0000	0.67%		0.0		0%	
65-69	0	11	0.0000	1.08%		0.1		0%	
70-74	0	0	N/A			0		0%	
75-79	0	2	0.0000	3.24%		0.1		0%	
80-84	0	0	N/A			0		0%	
85-89	0	0	N/A			0		0%	
90-94	0	0	N/A			0		0%	
95-99	0	0	N/A			0		0%	
Other Ages	0	0	N/A			0		0%	
Total	0	92				0.4		0%	

NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - HP TP
MORTALITY EXPERIENCE OF SERVICE RETIREES
MEN AND WOMEN

TABLE 2C GROUPED				2-YEAR PERIOD ENDING 6/30/2011					
Age	Actual Deaths	Total Exposed	Actual Rate (2) / (3)	Assumed Probability		Expected Deaths		Actual/Expected	
				Current (7) / (3)	Proposed (8) / (3)	Current	Proposed	Current (2) / (7)	Proposed (2) / (8)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
41-44	0	29	0.0000	0.15%		0.0		0%	
45-49	1	164	0.0061	0.22%		0.4		283%	
50-54	1	221	0.0045	0.35%		0.8		128%	
55-59	3	223	0.0135	0.57%		1.3		238%	
60-64	5	337	0.0148	0.93%		3.1		159%	
65-69	16	814	0.0197	1.50%		12.2		131%	
70-74	10	461	0.0217	2.50%		11.5		87%	
75-79	9	152	0.0592	4.35%		6.6		136%	
80-84	7	82	0.0854	7.94%		6.5		107%	
85-89	12	45	0.2667	12.86%		5.8		207%	
90-94	1	7	0.1429	21.95%		1.5		65%	
95-99	0	0	N/A			0		0%	
Other Ages	0	0	N/A			0.0		0%	
Total	65	2,535				49.8		131%	

NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - HP TP
MORTALITY EXPERIENCE OF DISABILITY RETIREES
MEN

TABLE 2A				10-YEAR PERIOD ENDING 6/30/2011					
Age	Actual Deaths	Total Exposed	Actual Rate (2) / (3)	Assumed Probability		Expected Deaths		Actual/Expected	
				Current	Proposed	Current (3) x (5)	Proposed (3) x (6)	Current (2) / (7)	Proposed (2) / (8)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
41	0	94	0.0000	0.1628%		0.2		0%	
42	0	114	0.0000	0.1752%		0.2		0%	
43	0	133	0.0000	0.1870%		0.2		0%	
44	0	146	0.0000	0.1982%		0.3		0%	
45	1	171	0.0058	0.2089%		0.4		280%	
46	0	173	0.0000	0.2117%		0.4		0%	
47	0	181	0.0000	0.2134%		0.4		0%	
48	0	178	0.0000	0.2140%		0.4		0%	
49	2	202	0.0099	0.2668%		0.5		371%	
50	0	207	0.0000	0.3124%		0.6		0%	
51	2	214	0.0093	0.3510%		0.8		266%	
52	1	217	0.0046	0.3832%		0.8		120%	
53	1	236	0.0042	0.3974%		0.9		107%	
54	3	257	0.0117	0.4179%		1.1		279%	
55	1	266	0.0038	0.4636%		1.2		81%	
56	2	307	0.0065	0.5137%		1.6		127%	
57	1	380	0.0026	0.5537%		2.1		48%	
58	2	467	0.0043	0.5939%		2.8		72%	
59	5	529	0.0095	0.6754%		3.6		140%	
60	5	588	0.0085	0.7467%		4.4		114%	
61	3	637	0.0047	0.8383%		5.3		56%	
62	7	669	0.0105	0.9165%		6.1		114%	
63	12	679	0.0177	0.9973%		6.8		177%	
64	12	683	0.0176	1.1041%		7.5		159%	
65	7	696	0.0101	1.1921%		8.3		84%	
66	9	679	0.0133	1.3394%		9.1		99%	
67	17	603	0.0282	1.5179%		9.2		186%	
68	9	511	0.0176	1.6666%		8.5		106%	
69	13	435	0.0299	1.8533%		8.1		161%	
70	8	365	0.0219	2.0462%		7.5		107%	
71	11	320	0.0344	2.2756%		7.3		151%	
72	8	263	0.0304	2.5123%		6.6		121%	
73	8	222	0.0360	2.8155%		6.3		128%	
74	8	195	0.0410	3.0718%		6.0		134%	
75	7	163	0.0429	3.4074%		5.6		126%	
76	4	137	0.0292	3.9214%		5.4		74%	
77	14	132	0.1061	4.4692%		5.9		237%	
78	9	124	0.0726	5.0522%		6.3		144%	
79	5	110	0.0455	5.5792%		6.1		81%	
80	8	103	0.0777	6.1261%		6.3		127%	
81	5	85	0.0588	6.9247%		5.9		85%	
82	6	82	0.0732	7.8883%		6.5		93%	
83	8	71	0.1127	8.7037%		6.2		129%	
84	4	57	0.0702	9.5191%		5.4		74%	
85	9	48	0.1875	10.5553%		5.1		178%	
86	5	35	0.1429	12.1521%		4.3		118%	
87	4	28	0.1429	13.5234%		3.8		106%	
88	4	18	0.2222	15.2121%		2.7		146%	
89	5	14	0.3571	16.8338%		2.4		212%	
90	0	6	0.0000	18.8609%		1.1		0%	
91	2	6	0.3333	20.5332%		1.2		162%	
92	0	3	0.0000	22.2456%		0.7		0%	
93	0	2	0.0000	24.5417%		0.5		0%	
94	0	2	0.0000	26.4058%		0.5		0%	
95	0	1	0.0000	28.1805%		0.3		0%	
96	0	0	N/A	30.5846%		0		0%	
97	0	0	N/A	32.2083%		0		0%	
98	0	0	N/A	33.6045%		0		0%	
99	0	0	N/A	35.8628%		0		0%	
Subtotal	257	13,244				207.3		124%	
Other Ages	0	233	0.0000	0.1295%		0.3		0%	
Total	257	13,477				207.3		124%	

NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - HP TP
MORTALITY EXPERIENCE OF DISABILITY RETIREES
WOMEN

TABLE 2B				10-YEAR PERIOD ENDING 6/30/2011					
Age	Actual Deaths	Total Exposed	Actual Rate (2) / (3)	Assumed Probability		Expected Deaths		Actual/Expected	
				Current	Proposed	Current (3) x (5)	Proposed (3) x (6)	Current (2) / (7)	Proposed (2) / (8)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
41	0	19	0.0000	0.0668%		0.0		0%	
42	0	22	0.0000	0.0757%		0.0		0%	
43	0	28	0.0000	0.0863%		0.0		0%	
44	0	28	0.0000	0.0987%		0.0		0%	
45	0	29	0.0000	0.1101%		0.0		0%	
46	0	30	0.0000	0.1222%		0.0		0%	
47	0	30	0.0000	0.1347%		0.0		0%	
48	1	29	0.0345	0.1505%		0.0		2291%	
49	0	26	0.0000	0.1697%		0.0		0%	
50	0	21	0.0000	0.1945%		0.0		0%	
51	0	19	0.0000	0.2140%		0.0		0%	
52	0	16	0.0000	0.2575%		0.0		0%	
53	0	12	0.0000	0.2980%		0.0		0%	
54	0	11	0.0000	0.3510%		0.0		0%	
55	0	7	0.0000	0.3832%		0.0		0%	
56	0	5	0.0000	0.3974%		0.0		0%	
57	0	6	0.0000	0.4179%		0.0		0%	
58	0	6	0.0000	0.4636%		0.0		0%	
59	0	7	0.0000	0.5137%		0.0		0%	
60	0	8	0.0000	0.5537%		0.0		0%	
61	0	7	0.0000	0.5939%		0.0		0%	
62	0	7	0.0000	0.6754%		0.0		0%	
63	0	6	0.0000	0.7467%		0.0		0%	
64	0	6	0.0000	0.8383%		0.1		0%	
65	0	6	0.0000	0.9165%		0.1		0%	
66	0	5	0.0000	0.9973%		0.0		0%	
67	0	3	0.0000	1.1041%		0.0		0%	
68	0	3	0.0000	1.1921%		0.0		0%	
69	0	2	0.0000	1.3394%		0.0		0%	
70	0	1	0.0000	1.5179%		0.0		0%	
71	0	1	0.0000	1.6666%		0.0		0%	
72	0	1	0.0000	1.8533%		0.0		0%	
73	0	1	0.0000	2.0462%		0.0		0%	
74	0	1	0.0000	2.2756%		0.0		0%	
75	0	1	0.0000	2.5123%		0.0		0%	
76	0	1	0.0000	2.8155%		0.0		0%	
77	0	1	0.0000	3.0718%		0.0		0%	
78	0	1	0.0000	3.4074%		0.0		0%	
79	0	0	N/A	3.9214%		0		0%	
80	0	0	N/A	4.4692%		0		0%	
81	0	0	N/A	5.0522%		0		0%	
82	0	0	N/A	5.5792%		0		0%	
83	0	0	N/A	6.1261%		0		0%	
84	0	0	N/A	6.9247%		0		0%	
85	0	0	N/A	7.8883%		0		0%	
86	0	0	N/A	8.7037%		0		0%	
87	0	0	N/A	9.5191%		0		0%	
88	0	0	N/A	10.5553%		0		0%	
89	0	0	N/A	12.1521%		0		0%	
90	0	0	N/A	13.5234%		0		0%	
91	0	0	N/A	15.2121%		0		0%	
92	0	0	N/A	16.4390%		0		0%	
93	0	0	N/A	17.9273%		0		0%	
94	0	0	N/A	19.1145%		0		0%	
95	0	0	N/A	20.1960%		0		0%	
96	0	0	N/A	21.1578%		0		0%	
97	0	0	N/A	22.4894%		0		0%	
98	0	0	N/A	23.0808%		0		0%	
99	0	0	N/A	23.3995%		0		0%	
Subtotal	1	413				1.3		80%	
Other Ages	0	53	0.0000	0.0524%		0.0		0%	
Total	1	466				1.3		80%	

NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - HP TP
MORTALITY EXPERIENCE OF SERVICE RETIREES
MEN AND WOMEN

TABLE 2C				10-YEAR PERIOD ENDING 6/30/2011					
Age	Actual Deaths	Total Exposed	Actual Rate (2) / (3)	Assumed Probability		Expected Deaths		Actual/Expected	
				Current	Proposed	Current (3) x (5)	Proposed (3) x (6)	Current (2) / (7)	Proposed (2) / (8)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
41	0	113	0.0000	0.1628%		0.2		0%	
42	0	136	0.0000	0.1752%		0.2		0%	
43	0	161	0.0000	0.1870%		0.3		0%	
44	0	174	0.0000	0.1982%		0.3		0%	
45	1	200	0.0050	0.2089%		0.4		257%	
46	0	203	0.0000	0.2117%		0.4		0%	
47	0	211	0.0000	0.2134%		0.4		0%	
48	1	207	0.0048	0.2140%		0.4		236%	
49	2	228	0.0088	0.2668%		0.6		343%	
50	0	228	0.0000	0.3124%		0.7		0%	
51	2	233	0.0086	0.3510%		0.8		253%	
52	1	233	0.0043	0.3832%		0.9		115%	
53	1	248	0.0040	0.3974%		1.0		103%	
54	3	268	0.0112	0.4179%		1.1		270%	
55	1	273	0.0037	0.4636%		1.3		79%	
56	2	312	0.0064	0.5137%		1.6		125%	
57	1	386	0.0026	0.5537%		2.1		47%	
58	2	473	0.0042	0.5939%		2.8		71%	
59	5	536	0.0093	0.6754%		3.6		139%	
60	5	596	0.0084	0.7467%		4.4		113%	
61	3	644	0.0047	0.8383%		5.4		56%	
62	7	676	0.0104	0.9165%		6.2		113%	
63	12	685	0.0175	0.9973%		6.8		176%	
64	12	689	0.0174	1.1041%		7.6		158%	
65	7	702	0.0100	1.1921%		8.4		84%	
66	9	684	0.0132	1.3394%		9.1		98%	
67	17	606	0.0281	1.5179%		9.2		185%	
68	9	514	0.0175	1.6666%		8.6		105%	
69	13	437	0.0297	1.8533%		8.1		161%	
70	8	366	0.0219	2.0462%		7.5		107%	
71	11	321	0.0343	2.2756%		7.3		151%	
72	8	264	0.0303	2.5123%		6.6		121%	
73	8	223	0.0359	2.8155%		6.3		128%	
74	8	196	0.0408	3.0718%		6.0		133%	
75	7	164	0.0427	3.4074%		5.6		125%	
76	4	138	0.0290	3.9214%		5.4		74%	
77	14	133	0.1053	4.4692%		5.9		236%	
78	9	125	0.0720	5.0522%		6.3		143%	
79	5	110	0.0455	5.5792%		6.1		81%	
80	8	103	0.0777	6.1261%		6.3		127%	
81	5	85	0.0588	6.9247%		5.9		85%	
82	6	82	0.0732	7.8883%		6.5		93%	
83	8	71	0.1127	8.7037%		6.2		129%	
84	4	57	0.0702	9.5191%		5.4		74%	
85	9	48	0.1875	10.5553%		5.1		178%	
86	5	35	0.1429	12.1521%		4.3		118%	
87	4	28	0.1429	13.5234%		3.8		106%	
88	4	18	0.2222	15.2121%		2.7		146%	
89	5	14	0.3571	16.8338%		2.4		212%	
90	0	6	0.0000	18.8609%		1.1		0%	
91	2	6	0.3333	20.5332%		1.2		162%	
92	0	3	0.0000	22.2456%		0.7		0%	
93	0	2	0.0000	24.5417%		0.5		0%	
94	0	2	0.0000	26.4058%		0.5		0%	
95	0	1	0.0000	28.1805%		0.3		0%	
96	0	0	N/A	0.0000%		0		0%	
97	0	0	N/A	0.0000%		0		0%	
98	0	0	N/A	0.0000%		0		0%	
99	0	0	N/A	0.0000%		0		0%	
Subtotal	258	13,657				208.6		124%	
Other Ages	0	286	0.0000	0.1295%		0.3		0%	
Total	258	13,943				208.9		123%	

NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - HP TP
MORTALITY EXPERIENCE OF DISABILITY RETIREES
MEN

TABLE 2A GROUPED				10-YEAR PERIOD ENDING 6/30/2011					
Age	Actual Deaths	Total Exposed	Actual Rate (2) / (3)	Assumed Probability		Expected Deaths		Actual/Expected	
				Current (7) / (3)	Proposed (8) / (3)	Current	Proposed	Current (2) / (7)	Proposed (2) / (8)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
41-44	0	487	0.0000	0.18%		0.9		0%	
45-49	3	905	0.0033	0.22%		2.0		148%	
50-54	7	1,131	0.0062	0.37%		4.2		165%	
55-59	11	1,949	0.0056	0.58%		11.3		98%	
60-64	39	3,256	0.0120	0.93%		30.2		129%	
65-69	55	2,924	0.0188	1.47%		43.1		128%	
70-74	43	1,365	0.0315	2.46%		33.6		128%	
75-79	39	666	0.0586	4.39%		29.2		133%	
80-84	31	398	0.0779	7.61%		30.3		102%	
85-89	27	143	0.1888	12.73%		18.2		148%	
90-94	2	19	0.1053	21.32%		4.0		49%	
95-99	0	1	0.0000	28.18%		0.3		0%	
Other Ages	0	233	0.0000	0.13%		0.3		0%	
Total	257	13,477				207.6		124%	

NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - HP TP
MORTALITY EXPERIENCE OF DISABILITY RETIREES
WOMEN

TABLE 2B GROUPED				10-YEAR PERIOD ENDING 6/30/2011					
Age	Actual Deaths	Total Exposed	Actual Rate (2) / (3)	Assumed Probability		Expected Deaths		Actual/Expected	
				Current (7) / (3)	Proposed (8) / (3)	Current	Proposed	Current (2) / (7)	Proposed (2) / (8)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
41-44	0	97	0.0000	0.08%		0.1		0%	
45-49	1	144	0.0069	0.14%		0.2		508%	
50-54	0	79	0.0000	0.25%		0.2		0%	
55-59	0	31	0.0000	0.44%		0.1		0%	
60-64	0	34	0.0000	0.67%		0.2		0%	
65-69	0	19	0.0000	1.06%		0.2		0%	
70-74	0	5	0.0000	1.87%		0.1		0%	
75-79	0	4	0.0000	2.95%		0.1		0%	
80-84	0	0	N/A			0		0%	
85-89	0	0	N/A			0		0%	
90-94	0	0	N/A			0		0%	
95-99	0	0	N/A			0		0%	
Other Ages	0	53	0.0000	0.05%		0.0		0%	
Total	1	466				1.3		78%	

NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - HP TP
MORTALITY EXPERIENCE OF SERVICE RETIREES
MEN AND WOMEN

TABLE 2C GROUPED				10-YEAR PERIOD ENDING 6/30/2011					
Age	Actual Deaths	Total Exposed	Actual Rate (2) / (3)	Assumed Probability		Expected Deaths		Actual/Expected	
				Current (7) / (3)	Proposed (8) / (3)	Current	Proposed	Current (2) / (7)	Proposed (2) / (8)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
41-44	0	584	0.0000	0.17%		1.0		0%	
45-49	4	1,049	0.0038	0.21%		2.2		180%	
50-54	7	1,210	0.0058	0.37%		4.4		158%	
55-59	11	1,980	0.0056	0.58%		11.4		97%	
60-64	39	3,290	0.0119	0.92%		30.4		128%	
65-69	55	2,943	0.0187	1.47%		43.3		127%	
70-74	43	1,370	0.0314	2.46%		33.7		128%	
75-79	39	670	0.0582	4.38%		29.3		133%	
80-84	31	398	0.0779	7.61%		30.3		102%	
85-89	27	143	0.1888	12.73%		18.2		148%	
90-94	2	19	0.1053	21.32%		4.0		49%	
95-99	0	1	0.0000	28.18%		0.3		0%	
Other Ages	0	286	0.0000	0.12%		0.3		0%	
Total	258	13,943				208.9		123%	

NEW YORK CITY EMPLOYEES' RETIREMENT SYSTEM - HP TP
MORTALITY EXPERIENCE OF DISABILITY RETIREES
MEN AND WOMEN

Plan Year Ending June 30, (1)	TABLE 2D Life Years Exposed (2)	Actual Deaths (3)	Expected Deaths (4)	10-YEAR PERIOD ENDING 6/30/2011 Actual / Expected (5)	Mortality Rate	
					Actual (3) / (2)	Expected (4) / (2)
					(6)	(7)
2002	1,503	22	15.8	139%	1.46%	1.05%
2003	1,485	19	16.8	113%	1.28%	1.13%
2004	1,466	25	18.1	138%	1.71%	1.23%
2005	1,441	30	19.3	156%	2.08%	1.34%
2006	1,411	25	20.1	125%	1.77%	1.42%
2007	1,385	22	21.3	103%	1.59%	1.54%
2008	1,360	23	22.7	101%	1.69%	1.67%
2009	1,337	27	24.0	112%	2.02%	1.80%
2010	1,310	32	25.4	126%	2.44%	1.94%
2011	1,245	33	25.5	129%	2.65%	2.05%
Total	13,943	258	208.9	123%	1.85%	1.50%