

# ESTIMATED ANNUITY YIELDS (in %)

Partially Tax-Exempt, Curve Type: pwcf, 06-JUL-24

Quote Date	0.0833YR	0.25YR	0.5YR	1.0YR	2.0YR	3.0YR	5.0YR	7.0YR	10.0YR	20.0YR	30.0YR	Max	Min
12/31/1925	3.71	3.71	3.67	3.76	3.86	3.91	3.95	3.97	3.97	3.89	3.72	3.97	3.67
01/30/1926	3.43	3.43	3.43	3.7	3.81	3.84	3.87	3.89	3.9	3.81	3.64	3.9	3.43
02/27/1926	3.37	3.37	3.37	3.65	3.78	3.82	3.86	3.89	3.9	3.81	3.62	3.9	3.37
03/31/1926	3.3	3.3	3.3	3.58	3.72	3.76	3.81	3.87	3.9	3.82	3.64	3.9	3.3
04/30/1926	3.09	3.09	3.09	3.47	3.6	3.63	3.67	3.74	3.8	3.75	3.59	3.8	3.09
05/28/1926	3.26	3.26	3.26	3.47	3.62	3.69	3.74	3.78	3.79	3.73	3.58	3.79	3.26
06/30/1926	2.86	2.86	3.36	3.53	3.6	3.66	3.74	3.78	3.8	3.73	3.57	3.8	2.86
07/31/1926	3.13	3.34	3.47	3.51	3.59	3.66	3.76	3.82	3.84	3.77	3.6	3.84	3.13
08/31/1926	3.51	3.51	3.51	3.51	3.6	3.69	3.8	3.86	3.89	3.79	3.61	3.89	3.51
09/30/1926	3.67	3.68	3.74	3.76	3.8	3.82	3.84	3.85	3.85	3.77	3.6	3.85	3.6
10/30/1926	3.59	3.65	3.69	3.71	3.67	3.69	3.75	3.79	3.8	3.73	3.56	3.8	3.56
11/30/1926	3.43	3.43	3.43	3.43	3.56	3.64	3.72	3.76	3.77	3.67	3.49	3.77	3.43
12/31/1926	3.16	3.16	3.16	3.16	3.34	3.45	3.56	3.61	3.64	3.6	3.45	3.64	3.16
01/31/1927	3.38	3.38	3.38	3.4	3.48	3.52	3.56	3.58	3.58	3.55	3.41	3.58	3.38
02/28/1927	3.35	3.35	3.35	3.27	3.37	3.44	3.51	3.54	3.56	3.52	3.37	3.56	3.27
03/31/1927	3.45	3.45	3.37	3.43	3.48	3.5	3.52	3.53	3.52	3.42	3.26	3.53	3.26
04/30/1927	3.65	3.59	3.55	3.6	3.64	3.63	3.6	3.58	3.55	3.44	3.27	3.65	3.27
05/31/1927	3.25	3.25	3.25	3.33	3.39	3.45	3.52	3.56	3.57	3.41	3.21	3.57	3.21
06/30/1927	3.35	3.35	3.35	3.43	3.49	3.53	3.56	3.58	3.57	3.45	3.27	3.58	3.27
07/30/1927	3.04	3.11	3.16	3.18	3.36	3.47	3.55	3.53	3.49	3.41	3.26	3.55	3.04
08/31/1927	3.03	3.03	3.03	3.03	3.25	3.38	3.48	3.47	3.43	3.36	3.23	3.48	3.03
09/30/1927	2.68	2.7	3.35	3.56	3.55	3.51	3.46	3.44	3.42	3.38	3.21	3.56	2.68
10/31/1927	2.73	2.96	3.1	3.15	3.31	3.41	3.5	3.54	3.55	3.37	3.19	3.55	2.73
11/30/1927	3.25	3.25	3.25	3.22	3.35	3.42	3.47	3.43	3.36	3.25	3.14	3.47	3.14
12/31/1927	3.38	3.38	3.38	3.34	3.41	3.46	3.47	3.42	3.34	3.22	3.11	3.47	3.11
01/31/1928	3.31	3.31	3.31	3.73	3.67	3.58	3.47	3.42	3.37	3.3	3.12	3.73	3.12
02/29/1928	3.03	3.03	3.03	4	3.96	3.81	3.62	3.52	3.43	3.3	3.07	4	3.03
03/31/1928	3.29	3.29	3.29	3.42	3.52	3.56	3.56	3.49	3.39	3.24	3.12	3.56	3.12
04/30/1928	3.87	3.87	3.87	3.8	3.75	3.73	3.67	3.57	3.46	3.28	3.14	3.87	3.14
05/31/1928	3.99	3.99	3.99	3.91	3.85	3.82	3.76	3.65	3.53	3.36	3.23	3.99	3.23
06/30/1928	4	4	4.15	4.14	4.01	3.94	3.83	3.7	3.56	3.36	3.22	4.15	3.22
07/31/1928	4.1	4.38	4.57	4.42	4.28	4.21	4.11	3.97	3.82	3.58	3.37	4.57	3.37
08/31/1928	4.51	4.51	4.51	4.53	4.35	4.24	4.1	3.95	3.8	3.56	3.35	4.53	3.35
09/29/1928	4.93	4.93	4.85	4.82	4.51	4.33	4.13	3.97	3.83	3.6	3.38	4.93	3.38
10/31/1928	4.81	4.8	4.8	4.47	4.27	4.2	4.1	3.94	3.78	3.53	3.34	4.81	3.34

# ESTIMATED ANNUITY YIELDS (in %)

Partially Tax-Exempt, Curve Type: pwcf, 06-JUL-24

Quote Date	0.0833YR	0.25YR	0.5YR	1.0YR	2.0YR	3.0YR	5.0YR	7.0YR	10.0YR	20.0YR	30.0YR	Max	Min
11/30/1928	4.37	4.37	4.37	4.37	4.28	4.23	4.13	3.98	3.81	3.54	3.31	4.37	3.31
12/31/1928	4.55	4.55	4.55	4.64	4.49	4.4	4.25	4.07	3.88	3.59	3.37	4.64	3.37
01/31/1929	4.85	4.85	4.85	4.7	4.56	4.5	4.38	4.2	4.01	3.69	3.44	4.85	3.44
02/28/1929	4.75	4.75	4.75	4.77	4.69	4.64	4.52	4.33	4.11	3.97	4.33	4.77	3.97
03/28/1929	4.77	4.77	4.92	5.03	4.86	4.74	4.57	4.38	4.19	4	3.95	5.03	3.95
04/30/1929	5.33	5.11	4.97	5.13	4.9	4.75	4.53	4.3	4.06	3.83	3.99	5.33	3.83
05/31/1929	5.08	5.08	5.08	5.78	5.45	5.17	4.82	4.54	4.26	4	4.12	5.78	4
06/29/1929	4.62	4.62	4.75	4.79	4.71	4.66	4.54	4.33	4.1	3.95	4.35	4.79	3.95
07/31/1929	5.13	4.96	4.85	4.81	4.66	4.58	4.44	4.27	4.09	3.95	4.18	5.13	3.95
08/30/1929	4.7	4.7	4.7	4.7	4.59	4.53	4.41	4.25	4.07	3.92	4.1	4.7	3.92
09/30/1929	4.91	4.91	4.91	4.76	4.63	4.58	4.49	4.33	4.16	4.01	4.16	4.91	4.01
10/31/1929	4.13	4.13	4.13	4.16	4.18	4.19	4.14	4.01	3.86	3.78	4.1	4.19	3.78
11/27/1929	3.33	3.33	3.33	3.52	3.67	3.73	3.76	3.68	3.59	3.42	3.25	3.76	3.25
12/31/1929	2.96	2.97	3.38	3.51	3.62	3.67	3.68	3.64	3.57	3.48	3.34	3.68	2.96
01/31/1930	3.88	3.9	3.92	3.92	3.93	3.93	3.9	3.81	3.71	3.55	3.4	3.93	3.4
02/28/1930	3.73	3.73	3.73	3.73	3.73	3.73	3.71	3.65	3.57	3.46	3.34	3.73	3.34
03/31/1930	3.68	3.68	3.68	3.68	3.68	3.59	3.47	3.42	3.39	3.37	3.24	3.68	3.24
04/30/1930	3.69	3.69	3.69	3.69	3.69	3.69	3.67	3.6	3.53	3.42	3.26	3.69	3.26
05/29/1930	3.62	3.62	3.62	3.62	3.62	3.62	3.59	3.52	3.44	3.32	3.16	3.62	3.16
06/30/1930	3.31	3.31	3.31	3.31	3.31	3.3	3.29	3.28	3.28	3.27	3.15	3.31	3.15
07/31/1930	3.1	3.1	3.1	3.1	3.1	3.13	3.18	3.21	3.23	3.26	3.16	3.26	3.1
08/29/1930	3.05	3.05	3.05	3.05	3.05	3.09	3.16	3.2	3.24	3.29	3.21	3.29	3.05
09/30/1930	2.98	2.98	2.98	2.98	2.98	3.02	3.09	3.13	3.17	3.21	3.12	3.21	2.98
10/31/1930	2.6	2.6	2.6	2.6	2.6	2.71	2.88	2.99	3.08	3.2	3.13	3.2	2.6
11/29/1930	2.29	2.29	2.29	2.29	2.29	2.44	2.7	2.86	2.99	3.17	3.12	3.17	2.29
12/31/1930	2.17	2.17	2.17	2.17	2.17	2.36	2.66	2.85	3.01	3.22	3.18	3.22	2.17
01/31/1931	2.5	2.5	2.5	2.5	2.5	2.66	2.92	3.07	3.21	3.39	3.33	3.39	2.5
02/28/1931	2.08	2.08	2.08	2.08	2.08	2.3	2.66	2.88	3.07	3.32	3.29	3.32	2.08
03/31/1931	1.98	1.98	1.98	1.98	1.98	2.21	2.59	2.81	3.01	3.27	3.24	3.27	1.98
04/30/1931	1.65	1.65	1.65	1.65	1.65	1.93	2.39	2.66	2.89	3.21	3.2	3.21	1.65
05/29/1931	1.11	1.11	1.11	1.11	1.11	1.46	2.05	2.4	2.7	3.11	3.13	3.13	1.11
06/30/1931	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.13	3.02	3.13	3.02
07/31/1931	3.16	3.16	3.16	3.16	3.16	3.16	3.16	3.16	3.16	3.16	3.05	3.16	3.05
08/31/1931	3.17	3.17	3.17	3.17	3.17	3.17	3.17	3.17	3.17	3.17	3.06	3.17	3.06

ESTIMATED ANNUITY YIELDS (in %)

Partially Tax-Exempt, Curve Type: pwcf, 06-JUL-24

Quote Date	0.0833YR	0.25YR	0.5YR	1.0YR	2.0YR	3.0YR	5.0YR	7.0YR	10.0YR	20.0YR	30.0YR	Max	Min
09/30/1931	3.46	3.46	3.46	3.46	3.46	3.46	3.46	3.46	3.46	3.41	3.15	3.46	3.15
10/31/1931	3.77	3.77	3.77	3.77	3.77	3.77	3.77	3.77	3.77	3.73	4.3	4.3	3.73
11/30/1931	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.7	4.34	4.34	3.7
12/31/1931	4.16	4.16	4.16	4.16	4.16	4.16	4.16	4.16	4.16	4.13	4.54	4.54	4.13

# ESTIMATED ANNUITY YIELDS (in %)

Fully Tax-Exempt, Curve Type: pwcf, 06-JUL-24

Quote Date	0.0833YR	0.25YR	0.5YR	1.0YR	2.0YR	3.0YR	5.0YR	7.0YR	10.0YR	20.0YR	30.0YR	Max	Min
01/30/1932	1.63	2.09	2.82	3.26	3.59	3.72	3.85	3.91	3.95	3.94	3.67	3.95	1.63
02/29/1932	1.42	1.58	2.88	3.3	3.5	3.57	3.62	3.64	3.66	3.65	3.53	3.66	1.42
03/31/1932	1.06	1.47	2.2	2.74	3.08	3.22	3.33	3.39	3.43	3.45	3.36	3.45	1.06
04/30/1932	0.5	0.56	0.71	1.21	1.92	2.28	2.62	2.79	2.92	3.07	3.09	3.09	0.5
05/31/1932	0.28	0.33	0.09	0.92	1.59	1.99	2.44	2.68	2.87	3.11	3.15	3.15	0.09
06/30/1932	0.31	0.3	0.41	0.87	1.71	2.14	2.57	2.77	2.94	3.13	3.14	3.14	0.3
07/30/1932	0.3	0.28	0.37	0.76	1.64	2.11	2.57	2.77	2.92	3.09	3.1	3.1	0.28
08/31/1932	0.32	0.31	0.25	0.75	1.52	2.07	2.66	2.85	2.95	3.03	3.03	3.03	0.25
09/30/1932	0.2	-0.24	0.17	0.47	1.19	1.76	2.44	2.8	3.04	2.99	2.97	3.04	-0.24
10/31/1932	0.18	0.04	-0.05	0.28	0.88	1.49	2.27	2.63	2.87	2.94	2.95	2.95	-0.05
11/30/1932	0.11	-0.01	0.01	0.2	0.84	1.48	2.28	2.63	2.86	2.92	2.95	2.95	-0.01
12/31/1932	0.13	-0.01	0.11	0.18	0.73	1.32	2.08	2.47	2.75	2.86	2.91	2.91	-0.01
01/31/1933	0.13	0.26	0.13	0.12	0.74	1.28	2.13	2.96	3.52	2.91	2.88	3.52	0.12
02/28/1933	0.59	0.62	0.64	0.93	2.06	2.57	2.97	3.08	3.1	2.87	2.88	3.1	0.59
03/31/1933	0.94	0.91	1.09	1.39	2.12	2.5	2.85	2.94	2.96	2.87	2.89	2.96	0.91
04/29/1933	0.44	0.48	0.35	0.74	1.5	2.06	2.64	2.78	2.83	2.85	2.89	2.89	0.35
05/31/1933	0.25	0.17	0.01	0.59	1.06	1.6	2.24	2.37	2.45	2.77	2.85	2.85	0.01
06/30/1933	0.23	0.19	0.22	0.21	0.89	1.48	2.16	2.41	2.57	2.72	2.8	2.8	0.19
07/31/1933	0.28	0.37	0.22	0.48	1.11	1.65	2.26	2.48	2.62	2.75	2.88	2.88	0.22
08/31/1933	0.18	0.01	-0.07	0.11	0.8	1.37	2.04	2.37	2.61	2.71	2.78	2.78	-0.07
09/30/1933	0.13	0.07	0.07	0.17	0.77	1.35	2.05	2.35	2.54	2.68	2.75	2.75	0.07
10/31/1933	0.23	0.26	0.35	0.23	0.96	1.57	2.23	2.45	2.58	2.69	2.76	2.76	0.23
11/29/1933	0.25	0.35	0.66	0.46	1.62	2.32	2.77	2.43	2.25	3.26	3.14	3.26	0.25
12/30/1933	0.47	0.47	0.58	1.4	2.17	2.62	3.05	3.13	3.13	3.01	2.98	3.13	0.47
01/31/1934	0.3	0.47	0.87	1.47	2.15	2.48	2.77	2.88	2.94	2.99	2.97	2.99	0.3
02/28/1934	0.23	0.22	0.48	0.67	1.49	2	2.55	2.83	3	2.92	2.91	3	0.22
03/31/1934	0.08	-0.06	0.08	0.17	0.83	1.38	2.05	2.41	2.66	2.74	2.78	2.78	-0.06
04/30/1934	0.08	0.07	0.09	0.03	0.66	1.18	1.81	2.15	2.43	2.73	2.8	2.8	0.03
05/31/1934	0.08	-0.05	0	-0.06	0.47	0.97	1.6	1.94	2.23	2.56	2.69	2.69	-0.06
06/30/1934	0.08	0.04	-0.02	-0.04	0.38	0.83	1.41	1.74	2.04	2.55	2.65	2.65	-0.04
07/31/1934	0.08	0.34	-0.08	-0.03	0.37	0.81	1.39	1.71	2.02	2.55	2.61	2.61	-0.08
08/31/1934	0.08	0.04	0.1	0.15	0.55	1.02	1.67	2.03	2.31	2.53	2.58	2.58	0.04
09/29/1934	0.1	0.11	0.11	0.23	1.05	1.56	2.1	2.37	2.54	2.53	2.58	2.58	0.1
10/31/1934	-0.19	0.19	-0.09	0.1	0.8	1.27	1.79	2.05	2.28	2.55	2.58	2.58	-0.19
11/30/1934	0.12	-0.06	0.04	0.07	0.77	1.25	1.79	2.07	2.25	2.24	2.43	2.43	-0.06

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12/31/1934	0.08	0.11	-0.29	-0.09	0.5	0.97	1.54	1.85	2.08	2.25	2.43	2.43	-0.29
01/31/1935	-1.78	-1.78	-1.78	-0.56	0.23	0.75	1.37	1.71	1.97	2.25	2.4	2.4	-1.78
02/28/1935	-0.61	-0.61	-0.61	-0.61	0.09	0.57	1.11	1.39	1.68	2.3	2.41	2.41	-0.61
03/30/1935	-3.06	-3.06	-1.08	-0.42	0.11	0.51	1.01	1.25	1.54	2.32	2.32	2.32	-3.06
04/30/1935	-2.31	-2.31	-2.31	-0.75	-0	0.43	0.95	1.25	1.58	2.29	2.31	2.31	-2.31
05/31/1935	-2.79	-2.75	-0.93	-0.32	0.11	0.5	0.99	1.2	1.4	1.86	2.1	2.1	-2.79
06/29/1935	-1.13	-1.13	-1.13	-0.44	-0.05	0.35	0.88	1.14	1.36	1.75	2.05	2.05	-1.13
07/31/1935	-1.09	-1.09	-1.09	-0.32	-0.02	0.35	0.87	1.11	1.33	1.75	2.04	2.04	-1.09
08/31/1935	-0.67	-0.67	-0.67	-0.19	0.21	0.6	1.1	1.34	1.57	2.08	2.21	2.21	-0.67
09/30/1935	-0.97	-0.95	-0.23	0.01	0.34	0.72	1.21	1.36	1.53	2.13	2.24	2.24	-0.97
10/30/1935	-0.47	-0.47	-0.47	-0.1	0.22	0.6	1.07	1.21	1.37	1.94	2.07	2.07	-0.47
11/30/1935	-0.32	-0.32	-0.32	-0.12	0.17	0.56	1.05	1.21	1.38	1.92	2.02	2.02	-0.32
12/31/1935	-0.67	-0.67	-0.67	-0.2	0.08	0.46	0.97	1.18	1.36	1.79	2	2	-0.67
01/31/1936	-0.67	-0.67	-0.67	-0.25	0.11	0.49	0.98	1.18	1.35	1.72	1.96	1.96	-0.67
02/29/1936	-3.62	-1.75	-0.52	-0.3	0	0.39	0.89	1.12	1.32	1.71	1.95	1.95	-3.62
03/31/1936	-2.47	-2.47	-0.74	-0.4	0.01	0.4	0.88	1.08	1.27	1.74	1.93	1.93	-2.47
04/30/1936	-4.47	-2.17	-0.67	-0.42	-0	0.39	0.88	1.08	1.29	1.8	1.96	1.96	-4.47
05/29/1936	-1.6	-1.6	-1.6	-0.53	0.01	0.4	0.87	1.06	1.25	1.76	1.95	1.95	-1.6
06/30/1936	-1.54	-1.54	-1.54	-0.41	0.14	0.51	0.94	1.11	1.3	1.85	1.99	1.99	-1.54
07/31/1936	-1.67	-1.67	-1.67	-0.5	0.11	0.5	0.93	1.1	1.29	1.81	1.97	1.97	-1.67
08/31/1936	-0.76	-0.76	-0.76	-0.76	0.01	0.45	0.86	1.05	1.25	1.82	1.97	1.97	-0.76
09/30/1936	-1.69	-1.69	-1.69	-0.6	0.12	0.52	0.93	1.1	1.27	1.74	1.94	1.94	-1.69
10/31/1936	-5.11	-2.24	-0.61	-0.04	0.34	0.64	0.99	1.12	1.27	1.76	1.95	1.95	-5.11
11/30/1936	-3.18	-3.18	-1.16	-0.49	0.1	0.44	0.8	1	1.2	1.65	1.86	1.86	-3.18
12/31/1936	-0	-0	-0	-0	0.44	0.71	0.99	1.11	1.26	1.76	1.9	1.9	-0
01/30/1937	0.14	0.14	0.14	0.14	0.59	0.84	1.09	1.19	1.32	1.74	1.86	1.86	0.14
02/27/1937	-5.45	-2.72	-0.66	0.02	0.57	0.86	1.14	1.25	1.37	1.79	1.87	1.87	-5.45
03/31/1937	0.3	0.3	0.3	0.48	0.95	1.21	1.45	1.51	1.59	1.84	1.97	1.97	0.3
04/30/1937	0.07	0.07	0.07	0.39	0.85	1.1	1.38	1.53	1.68	2	2.11	2.11	0.07
05/28/1937	-0	-0	-0	0.34	0.8	1.06	1.35	1.51	1.67	2.01	2.1	2.1	-0
06/30/1937	0.1	0.1	0.34	0.41	0.89	1.15	1.41	1.56	1.7	2	2.05	2.05	0.1
07/31/1937	-2.73	-1.09	-0.02	0.34	0.77	1.01	1.28	1.47	1.65	1.99	2.04	2.04	-2.73
08/31/1937	0.4	0.4	0.4	0.6	1.04	1.26	1.48	1.63	1.79	2.07	2.1	2.1	0.4
09/30/1937	-0.04	-0.04	-0.04	0.28	0.71	0.99	1.33	1.56	1.76	2.07	2.1	2.1	-0.04

# ESTIMATED ANNUITY YIELDS (in %)

Fully Tax-Exempt, Curve Type: pwcf, 06-JUL-24

Quote Date	0.0833YR	0.25YR	0.5YR	1.0YR	2.0YR	3.0YR	5.0YR	7.0YR	10.0YR	20.0YR	30.0YR	Max	Min
10/30/1937	-0.29	-0.29	-0.29	0.2	0.62	0.9	1.25	1.47	1.67	1.97	2	2	-0.29
11/30/1937	-0.68	-0.68	-0.68	0.03	0.51	0.81	1.18	1.42	1.64	1.96	2	2	-0.68
12/31/1937	0.04	0.06	0.08	0.08	0.43	0.7	1.06	1.33	1.59	1.95	1.99	1.99	0.04
01/31/1938	0.06	0.12	-0.03	-0.05	0.36	0.66	1	1.21	1.42	1.87	1.97	1.97	-0.05
02/28/1938	0.01	0.22	-0.36	-0.22	0.23	0.54	0.91	1.12	1.34	1.83	1.96	1.96	-0.36
03/31/1938	0.05	0.17	-0.57	-0.19	0.34	0.62	0.94	1.17	1.4	1.86	1.96	1.96	-0.57
04/30/1938	-0.07	-0.75	-1.28	-0.5	0.06	0.33	0.67	0.98	1.29	1.77	1.87	1.87	-1.28
05/31/1938	-0.07	-1.51	-2.24	-0.97	-0.19	0.15	0.55	0.91	1.27	1.73	1.82	1.82	-2.24
06/30/1938	-0.06	-1.03	-1.82	-0.94	-0.27	0.07	0.46	0.74	1.04	1.62	1.78	1.78	-1.82
07/30/1938	0.04	-1.21	-2.09	-0.84	-0.16	0.16	0.53	0.78	1.04	1.56	1.71	1.71	-2.09
08/31/1938	0.03	-2.12	-2.78	-1.01	-0.13	0.23	0.6	0.83	1.08	1.58	1.71	1.71	-2.78
09/30/1938	-0.02	-1	-1.77	-0.81	-0.11	0.22	0.62	0.97	1.3	1.72	1.78	1.78	-1.77
10/31/1938	-0.07	-2.4	-2.95	-1.34	-0.34	0.09	0.54	0.87	1.2	1.67	1.77	1.77	-2.95
11/30/1938	-0.07	-1.68	-2.71	-1.21	-0.35	0.07	0.55	0.88	1.19	1.66	1.76	1.76	-2.71
12/31/1938	-0.15	-1.29	-2.24	-1.11	-0.34	0.05	0.49	0.79	1.09	1.57	1.68	1.68	-2.24
01/31/1939	-0.09	-2.05	-3.45	-1.49	-0.48	-0.04	0.46	0.78	1.08	1.49	1.57	1.57	-3.45
02/28/1939	-0.17	-2.2	-3.55	-1.67	-0.6	-0.11	0.4	0.74	1.05	1.49	1.57	1.57	-3.55
03/31/1939	-0.05	-1.42	-2.54	-1.32	-0.5	-0.12	0.32	0.67	1	1.47	1.57	1.57	-2.54
04/29/1939	0.02	-1.89	-3.31	-1.42	-0.52	-0.13	0.32	0.66	0.99	1.46	1.56	1.56	-3.31
05/31/1939	-0.07	-2.2	-3.24	-1.32	-0.46	-0.12	0.26	0.6	0.94	1.43	1.55	1.55	-3.24
06/30/1939	-0.08	-1.09	-1.92	-0.77	-0.18	0.05	0.33	0.64	0.96	1.44	1.55	1.55	-1.92
07/31/1939	-0.07	-1.45	-2.45	-0.8	-0.22	0	0.3	0.62	0.95	1.43	1.55	1.55	-2.45
08/31/1939	0.03	-0.96	-1.51	-0.35	0.11	0.3	0.55	0.81	1.07	1.47	1.54	1.54	-1.51
09/30/1939	0.01	-0.57	-0.17	-0.04	0.12	0.44	0.94	1.26	1.55	1.94	2	2	-0.57
10/31/1939	0.03	-1.68	-0.87	-0.59	-0.15	0.12	0.54	0.98	1.31	1.39	2.28	2.28	-1.68
11/30/1939	-0.03	-3.24	-1.38	-0.76	-0.28	0.03	0.46	0.78	1	1.11	2.07	2.07	-3.24
12/30/1939	-0.07	-3.96	-1.92	-1.24	-0.56	-0.19	0.26	0.62	0.89	1.06	2.02	2.02	-3.96
01/31/1940	-0.08	-4.05	-1.84	-1.11	-0.49	-0.14	0.31	0.69	0.95	1.1	2.06	2.06	-4.05
02/29/1940	-0.14	-4.12	-1.87	-1.13	-0.49	-0.16	0.27	0.66	0.94	1.11	2.06	2.06	-4.12
03/30/1940	-0.17	-1.31	-0.86	-0.72	-0.34	-0.09	0.26	0.6	0.85	1.03	2	2	-1.31
04/30/1940	-0.17	-0.62	-0.59	-0.58	-0.25	-0.02	0.31	0.63	0.85	1.02	1.99	1.99	-0.62
05/31/1940	0.05	-1.16	-0.39	-0.14	0.03	0.29	0.71	1.01	1.2	1.24	2.16	2.16	-1.16
06/29/1940	0.04	-0.73	-1.31	-0.59	-0.16	0.12	0.52	0.85	1.07	1.17	2.11	2.11	-1.31
07/31/1940	-0.07	-1.12	-1.45	-0.51	-0.14	0.11	0.49	0.81	1.02	1.13	2.08	2.08	-1.45

# ESTIMATED ANNUITY YIELDS (in %)

Fully Tax-Exempt, Curve Type: pwcf, 06-JUL-24

Quote Date	0.0833YR	0.25YR	0.5YR	1.0YR	2.0YR	3.0YR	5.0YR	7.0YR	10.0YR	20.0YR	30.0YR	Max	Min
08/31/1940	-0.12	-1.67	-2.54	-0.99	-0.36	-0.03	0.41	0.76	0.99	1.12	2.07	2.07	-2.54
09/30/1940	-0.15	-2.91	-1.5	-1.01	-0.4	-0.06	0.38	0.77	1.06	1.19	2.13	2.13	-2.91
10/31/1940	-0.07	-2.47	-1.42	-1.06	-0.49	-0.11	0.36	0.68	0.97	1.38	1.46	1.46	-2.47
11/30/1940	-0.14	-5.02	-2.11	-1.15	-0.51	-0.15	0.3	0.66	0.91	1.07	2.03	2.03	-5.02
12/31/1940	-0.17	-5.85	-2.34	-1.16	-0.49	-0.14	0.31	0.66	0.9	1.05	2.02	2.02	-5.85
01/31/1941	-0.09	-3.16	-1.54	-1.01	-0.43	-0.05	0.4	0.7	0.89	1.03	2	2	-3.16
02/28/1941	0.04	-3.3	-1.44	-0.82	-0.27	0.05	0.46	0.81	1.05	1.16	2.1	2.1	-3.3
03/31/1941	-0.28	-0.66	-0.76	-0.79	-0.26	0.06	0.43	0.7	0.88	1.01	1.99	1.99	-0.79
04/30/1941	-1.02	-1.02	-1.02	-1.02	-0.32	0.04	0.41	0.68	0.93	1.29	1.36	1.36	-1.02
05/31/1941	-1.61	-1.61	-1.61	-1.61	-0.61	-0.13	0.33	0.63	0.91	1.29	1.36	1.36	-1.61
06/30/1941	-1.81	-1.81	-1.81	-1.81	-0.64	-0.15	0.26	0.56	0.85	1.26	1.35	1.35	-1.81
07/31/1941	-2.1	-2.1	-2.1	-2.1	-0.73	-0.2	0.24	0.55	0.85	1.27	1.36	1.36	-2.1
08/30/1941	-1.9	-1.9	-1.9	-1.9	-0.69	-0.18	0.25	0.56	0.85	1.27	1.35	1.35	-1.9
09/30/1941	-7	-6.82	-2.88	-1.51	-0.5	-0.09	0.31	0.6	0.88	1.27	1.35	1.35	-7
10/31/1941	-0.63	-0.63	-0.63	-0.63	-0.03	0.2	0.41	0.64	0.87	1.23	1.3	1.3	-0.63
11/29/1941	-0.1	-0.1	-0.1	-0.1	0.21	0.4	0.63	0.82	1	1.27	1.31	1.31	-0.1
12/31/1941	-0.39	-0.38	0.05	0.19	0.34	0.49	0.72	0.92	1.13	1.43	1.47	1.47	-0.39

## ESTIMATED ANNUITY YIELDS (in %)

Fully Taxable, Curve Type: pwcf, Principal Adj: 10%, 06-JUL-24

Quote Date	0.0833YR	0.25YR	0.5YR	1.0YR	2.0YR	3.0YR	5.0YR	7.0YR	10.0YR	20.0YR	30.0YR	Max	Min
01/31/1942	0.15	0.26	0.42	0.47	0.5	0.65	0.95	1.29	1.64	2.14	2.34	2.34	0.15
02/28/1942	0.11	0.25	0.38	0.42	0.45	0.61	0.94	1.32	1.7	2.18	2.36	2.36	0.11
03/31/1942	0.1	0.24	0.33	0.36	0.61	0.76	1	1.32	1.65	2.11	2.31	2.31	0.1
04/30/1942	0.2	0.37	0.46	0.49	0.72	0.86	1.08	1.4	1.73	2.18	2.36	2.36	0.2
05/29/1942	0.26	0.38	0.45	0.48	0.72	0.86	1.09	1.4	1.72	2.12	2.32	2.32	0.26
06/30/1942	0.28	0.51	0.79	0.36	0.62	0.84	1.14	1.44	1.74	2.16	2.34	2.34	0.28
07/31/1942	0.33	0.44	0.59	0.18	0.55	0.83	1.18	1.5	1.8	2.16	2.34	2.34	0.18
08/31/1942	0.34	0.43	0.53	0.68	0.94	1.07	1.28	1.54	1.82	2.16	2.34	2.34	0.34
09/30/1942	0.35	0.38	0.58	0.78	0.94	1.09	1.34	1.59	1.85	2.18	2.35	2.35	0.35
10/31/1942	0.34	0.38	0.61	0.75	0.89	1.06	1.33	1.59	1.84	2.16	2.34	2.34	0.34
11/30/1942	0.31	0.38	0.58	0.75	0.89	1.06	1.35	1.6	1.85	2.2	2.38	2.38	0.31
12/31/1942	0.35	0.37	0.6	0.77	0.91	1.08	1.36	1.6	1.83	2.18	2.36	2.36	0.35
01/30/1943	0.34	0.44	0.54	0.69	0.8	0.97	1.26	1.53	1.78	2.14	2.34	2.34	0.34
02/27/1943	0.31	0.45	0.59	0.71	0.8	0.98	1.29	1.55	1.8	2.14	2.35	2.35	0.31
03/31/1943	0.34	0.46	0.57	0.74	0.82	0.99	1.29	1.56	1.82	2.15	2.36	2.36	0.34
04/30/1943	0.31	0.47	0.67	0.77	0.89	1.06	1.34	1.59	1.82	2.14	2.35	2.35	0.31
05/29/1943	0.31	0.36	0.67	0.74	0.8	0.97	1.27	1.51	1.75	2.11	2.33	2.33	0.31
06/30/1943	0.33	0.38	0.61	0.69	0.71	0.89	1.22	1.48	1.73	2.09	2.32	2.32	0.33
07/31/1943	0.33	0.38	0.62	0.71	0.72	0.9	1.23	1.5	1.75	2.1	2.33	2.33	0.33
08/31/1943	0.31	0.41	0.71	0.79	0.78	0.94	1.26	1.53	1.78	2.12	2.34	2.34	0.31
09/30/1943	0.33	0.53	0.73	0.77	0.81	0.98	1.29	1.53	1.78	2.18	2.25	2.25	0.33
10/30/1943	0.33	0.41	0.72	0.78	0.83	1	1.3	1.55	1.8	2.2	2.26	2.26	0.33
11/30/1943	0.32	0.38	0.73	0.77	0.83	1	1.31	1.57	1.82	2.22	2.28	2.28	0.32
12/31/1943	0.32	0.43	0.68	0.75	0.84	1	1.3	1.55	1.82	2.23	2.29	2.29	0.32
01/31/1944	0.33	0.51	0.7	0.79	0.87	1.04	1.32	1.57	1.82	2.23	2.29	2.29	0.33
02/29/1944	0.29	0.36	0.74	0.79	0.88	1.05	1.33	1.56	1.8	2.21	2.28	2.28	0.29
03/31/1944	0.31	0.42	0.78	0.8	0.87	1.04	1.33	1.56	1.8	2.21	2.28	2.28	0.31
04/29/1944	0.29	0.4	0.7	0.76	0.87	1.03	1.31	1.55	1.8	2.21	2.28	2.28	0.29
05/31/1944	0.3	0.55	0.74	0.78	0.87	1.04	1.31	1.56	1.81	2.21	2.28	2.28	0.3
06/30/1944	0.32	0.52	0.81	0.78	0.89	1.06	1.33	1.57	1.82	2.22	2.29	2.29	0.32
07/31/1944	0.29	0.53	0.7	0.75	0.86	1.03	1.31	1.56	1.81	2.22	2.28	2.28	0.29
08/31/1944	0.29	0.39	0.69	0.74	0.87	1.03	1.31	1.54	1.79	2.2	2.28	2.28	0.29
09/30/1944	0.33	0.44	0.78	0.78	0.88	1.05	1.33	1.56	1.8	2.21	2.28	2.28	0.33
10/31/1944	0.29	0.46	0.78	0.77	0.92	1.09	1.35	1.58	1.82	2.22	2.29	2.29	0.29
11/30/1944	0.29	0.5	0.81	0.8	0.96	1.12	1.38	1.6	1.83	2.23	2.29	2.29	0.29



# ESTIMATED ANNUITY YIELDS (in %)

Fully Taxable, Curve Type: pwcf, Principal Adj: 10%, 06-JUL-24

Quote Date	0.0833YR	0.25YR	0.5YR	1.0YR	2.0YR	3.0YR	5.0YR	7.0YR	10.0YR	20.0YR	30.0YR	Max	Min
12/30/1944	0.29	0.45	0.82	0.82	0.96	1.12	1.38	1.6	1.84	2.22	2.28	2.28	0.29
01/31/1945	0.29	0.48	0.72	0.76	0.89	1.04	1.29	1.49	1.71	2.13	2.21	2.21	0.29
02/28/1945	0.29	0.41	0.69	0.75	0.85	0.99	1.23	1.43	1.65	2.08	2.17	2.17	0.29
03/31/1945	0.32	0.39	0.66	0.74	0.85	0.99	1.23	1.41	1.62	2.07	2.17	2.17	0.32
04/30/1945	0.29	0.47	0.74	0.78	0.9	1.01	1.18	1.34	1.53	1.97	2.08	2.08	0.29
05/31/1945	0.29	0.47	0.77	0.81	0.94	1.07	1.25	1.38	1.55	1.97	2.07	2.07	0.29
06/30/1945	0.33	0.57	0.79	0.82	0.96	1.06	1.19	1.33	1.49	1.9	2	2	0.33
07/31/1945	0.3	0.42	0.86	0.84	1	1.1	1.24	1.37	1.54	1.95	2.05	2.05	0.3
08/31/1945	0.32	0.53	0.84	0.85	0.96	1.08	1.25	1.37	1.52	1.94	2.05	2.05	0.32
09/29/1945	0.32	0.57	0.86	0.86	0.96	1.08	1.25	1.36	1.51	1.93	2.03	2.03	0.32
10/31/1945	0.29	0.54	0.86	0.85	0.94	1.05	1.2	1.31	1.45	1.87	1.98	1.98	0.29
11/30/1945	0.32	0.64	0.86	0.87	0.96	1.04	1.16	1.25	1.39	1.81	1.93	1.93	0.32
12/31/1945	0.34	0.5	0.87	0.85	0.94	1.01	1.12	1.2	1.32	1.71	1.82	1.82	0.34
01/31/1946	0.32	0.45	0.78	0.79	0.85	0.92	1.02	1.12	1.26	1.69	1.81	1.81	0.32
02/28/1946	0.33	0.45	0.71	0.75	0.78	0.83	0.95	1.07	1.24	1.68	1.8	1.8	0.33
03/30/1946	0.34	0.56	0.82	0.81	0.88	0.95	1.05	1.13	1.27	1.69	1.81	1.81	0.34
04/30/1946	0.34	0.55	0.85	0.86	0.94	1.03	1.16	1.27	1.41	1.81	1.91	1.91	0.34
05/31/1946	0.35	0.56	0.86	0.85	0.94	1.03	1.17	1.28	1.43	1.83	1.93	1.93	0.35
06/28/1946	0.33	0.68	0.86	0.84	0.92	0.99	1.11	1.22	1.38	1.8	1.9	1.9	0.33
07/31/1946	0.33	0.62	0.88	0.85	0.93	1.01	1.13	1.25	1.41	1.83	1.94	1.94	0.33
08/30/1946	0.33	0.58	0.88	0.88	0.97	1.06	1.19	1.32	1.48	1.91	2.02	2.02	0.33
09/30/1946	0.34	0.59	0.9	0.87	1.02	1.13	1.27	1.39	1.55	1.95	2.04	2.04	0.34
10/31/1946	0.32	0.56	0.89	0.86	0.97	1.07	1.24	1.38	1.54	1.93	2.01	2.01	0.32
11/30/1946	0.34	0.7	0.87	0.86	1.01	1.13	1.31	1.46	1.63	1.99	2.06	2.06	0.34
12/31/1946	0.32	0.46	0.84	0.86	0.96	1.07	1.23	1.37	1.53	1.91	1.99	1.99	0.32
01/31/1947	0.32	0.42	0.83	0.85	0.93	1.04	1.21	1.33	1.49	1.89	1.99	1.99	0.32
02/28/1947	0.33	0.55	0.83	0.85	0.93	1.04	1.21	1.33	1.48	1.89	1.99	1.99	0.33
03/31/1947	0.34	0.59	0.78	0.82	0.91	1.02	1.19	1.31	1.47	1.88	1.99	1.99	0.34
04/30/1947	0.33	0.6	0.85	0.87	1	1.11	1.26	1.36	1.5	1.92	2.03	2.03	0.33
05/29/1947	0.33	0.69	0.87	0.88	1.01	1.11	1.25	1.35	1.49	1.91	2.02	2.02	0.33
06/30/1947	0.34	0.59	0.86	0.87	1.01	1.12	1.27	1.38	1.52	1.93	2.03	2.03	0.34
07/31/1947	0.33	0.75	0.83	0.86	1.02	1.14	1.29	1.39	1.51	1.91	2	2	0.33
08/29/1947	0.32	0.74	0.83	0.87	1.01	1.11	1.24	1.34	1.47	1.87	1.97	1.97	0.32
09/30/1947	0.75	0.82	0.81	0.91	1.06	1.16	1.28	1.38	1.51	1.91	2.01	2.01	0.75

# ESTIMATED ANNUITY YIELDS (in %)

Fully Taxable, Curve Type: pwcf, Principal Adj: 10%, 06-JUL-24

Quote Date	0.0833YR	0.25YR	0.5YR	1.0YR	2.0YR	3.0YR	5.0YR	7.0YR	10.0YR	20.0YR	30.0YR	Max	Min
10/31/1947	0.79	0.86	0.85	0.95	1.16	1.28	1.42	1.51	1.63	1.97	2.05	2.05	0.79
11/28/1947	0.83	0.9	0.92	1	1.19	1.32	1.48	1.6	1.74	2.1	2.17	2.17	0.83
12/31/1947	0.88	0.91	0.94	1.03	1.18	1.33	1.56	1.75	1.95	2.28	2.31	2.31	0.88
01/30/1948	0.94	0.97	0.96	1.06	1.19	1.34	1.57	1.76	1.96	2.28	2.31	2.31	0.94
02/27/1948	0.96	0.96	0.99	1.07	1.18	1.33	1.56	1.74	1.92	2.25	2.3	2.3	0.96
03/31/1948	0.98	0.98	1.03	1.08	1.2	1.34	1.55	1.72	1.9	2.24	2.29	2.29	0.98
04/30/1948	0.99	0.98	1.04	1.1	1.22	1.35	1.55	1.7	1.87	2.22	2.27	2.27	0.98
05/28/1948	1	0.99	1.01	1.08	1.16	1.27	1.45	1.59	1.75	2.12	2.19	2.19	0.99
06/30/1948	0.99	0.99	1.03	1.08	1.23	1.35	1.53	1.69	1.87	2.21	2.26	2.26	0.99
07/30/1948	0.99	0.99	1.01	1.1	1.23	1.37	1.59	1.76	1.93	2.25	2.29	2.29	0.99
08/31/1948	1.05	0.95	1.13	1.16	1.26	1.41	1.64	1.8	1.97	2.28	2.31	2.31	0.95
09/30/1948	0.57	1.07	1.14	1.2	1.33	1.46	1.66	1.84	2.01	2.27	2.27	2.27	0.57
10/29/1948	1.06	0.99	1.14	1.23	1.38	1.5	1.69	1.87	2.04	2.3	2.3	2.3	0.99
11/30/1948	0.63	1.09	1.11	1.2	1.34	1.46	1.64	1.81	1.99	2.24	2.24	2.24	0.63
12/31/1948	1.12	1.12	1.18	1.21	1.34	1.43	1.58	1.75	1.94	2.21	2.22	2.22	1.12
01/31/1949	1.14	1.16	1.19	1.21	1.35	1.41	1.53	1.69	1.88	2.16	2.17	2.17	1.14
02/28/1949	1.12	1.16	1.2	1.21	1.35	1.42	1.54	1.7	1.88	2.15	2.16	2.16	1.12
03/31/1949	1.13	1.18	1.19	1.21	1.37	1.41	1.49	1.64	1.82	2.1	2.12	2.12	1.13
04/29/1949	1.13	1.17	1.19	1.18	1.33	1.38	1.47	1.63	1.81	2.09	2.12	2.12	1.13
05/31/1949	1.13	1.15	1.18	1.19	1.34	1.37	1.43	1.59	1.78	2.09	2.12	2.12	1.13
06/30/1949	1.06	1.08	1.1	1.11	1.26	1.26	1.28	1.44	1.65	1.99	2.03	2.03	1.06
07/29/1949	1	1.01	1.04	1.03	1.19	1.2	1.22	1.4	1.61	1.97	2.02	2.02	1
08/31/1949	1.02	1.03	1.05	1.04	1.17	1.17	1.19	1.36	1.57	1.91	1.96	1.96	1.02
09/30/1949	1.04	1.05	1.08	1.07	1.2	1.18	1.19	1.36	1.58	1.94	1.99	1.99	1.04
10/31/1949	1.02	1.06	1.09	1.08	1.21	1.18	1.18	1.36	1.58	1.94	2	2	1.02
11/30/1949	1.05	1.1	1.11	1.09	1.23	1.2	1.18	1.35	1.57	1.94	2	2	1.05
12/30/1949	1.06	1.08	1.1	1.09	1.19	1.2	1.24	1.41	1.61	1.93	1.97	1.97	1.06
01/31/1950	1.1	1.13	1.12	1.11	1.23	1.25	1.31	1.48	1.68	1.99	2.03	2.03	1.1
02/28/1950	1.13	1.15	1.13	1.14	1.25	1.27	1.33	1.49	1.69	1.99	2.02	2.02	1.13
03/31/1950	1.12	1.15	1.15	1.13	1.27	1.3	1.35	1.51	1.7	2	2.03	2.03	1.12
04/28/1950	1.15	1.17	1.18	1.15	1.3	1.33	1.39	1.54	1.72	2.01	2.04	2.04	1.15
05/31/1950	1.16	1.16	1.17	1.19	1.29	1.31	1.37	1.53	1.71	2	2.03	2.03	1.16
06/30/1950	1.16	1.14	1.19	1.21	1.31	1.34	1.41	1.57	1.75	2.04	2.07	2.07	1.14
07/31/1950	1.15	1.17	1.17	1.21	1.3	1.32	1.37	1.53	1.71	2.01	2.04	2.04	1.15

# ESTIMATED ANNUITY YIELDS (in %)

Fully Taxable, Curve Type: pwcf, Principal Adj: 10%, 06-JUL-24

Quote Date	0.0833YR	0.25YR	0.5YR	1.0YR	2.0YR	3.0YR	5.0YR	7.0YR	10.0YR	20.0YR	30.0YR	Max	Min
08/31/1950	1.28	1.31	1.28	1.31	1.41	1.41	1.43	1.57	1.74	2.02	2.05	2.05	1.28
09/29/1950	1.31	1.33	1.34	1.34	1.49	1.5	1.52	1.65	1.82	2.09	2.11	2.11	1.31
10/31/1950	1.29	1.36	1.4	1.46	1.59	1.6	1.62	1.75	1.9	2.16	2.17	2.17	1.29
11/30/1950	1.35	1.39	1.41	1.47	1.57	1.58	1.62	1.75	1.9	2.15	2.16	2.16	1.35
12/29/1950	1.35	1.31	1.46	1.52	1.56	1.58	1.64	1.77	1.92	2.16	2.16	2.16	1.31
01/31/1951	1.34	1.39	1.43	1.54	1.6	1.61	1.67	1.79	1.93	2.14	2.14	2.14	1.34
02/28/1951	1.32	1.42	1.42	1.56	1.62	1.63	1.69	1.82	1.97	2.2	2.2	2.2	1.32
03/30/1951	1.5	1.53	1.45	1.81	1.96	1.98	2.01	2.1	2.21	2.37	2.34	2.37	1.45
04/30/1951	1.38	1.34	1.63	1.73	1.94	1.96	1.98	2.08	2.21	2.42	2.4	2.42	1.34
05/31/1951	1.42	1.53	1.7	1.86	2	2.01	2.03	2.13	2.25	2.45	2.43	2.45	1.42
06/29/1951	1.49	1.5	1.43	1.69	1.91	1.95	1.99	2.11	2.26	2.48	2.47	2.48	1.43
07/31/1951	1.54	1.51	1.51	1.69	1.84	1.87	1.92	2.04	2.18	2.41	2.4	2.41	1.51
08/31/1951	1.57	1.65	1.72	1.75	1.77	1.79	1.85	1.99	2.15	2.39	2.39	2.39	1.57
09/28/1951	1.62	1.62	1.76	1.81	1.85	1.91	2.01	2.13	2.26	2.45	2.43	2.45	1.62
10/31/1951	1.37	1.61	1.57	1.72	1.84	1.9	2	2.12	2.25	2.45	2.43	2.45	1.37
11/30/1951	1.4	1.64	1.53	1.72	1.87	1.92	2.02	2.15	2.3	2.53	2.52	2.53	1.4
12/31/1951	1.71	1.78	1.68	1.87	2.02	2.07	2.14	2.25	2.38	2.56	2.54	2.56	1.68
01/31/1952	1.34	1.56	1.69	1.73	1.85	1.91	2.02	2.16	2.3	2.53	2.52	2.53	1.34
02/29/1952	1.26	1.64	1.67	1.71	1.87	1.96	2.08	2.21	2.35	2.55	2.53	2.55	1.26
03/31/1952	1.44	1.49	1.52	1.61	1.69	1.79	1.97	2.13	2.29	2.53	2.52	2.53	1.44
04/30/1952	1.63	1.64	1.49	1.6	1.68	1.77	1.91	2.06	2.21	2.44	2.43	2.44	1.49
05/29/1952	1.67	1.67	1.56	1.66	1.75	1.82	1.95	2.09	2.24	2.47	2.46	2.47	1.56
06/30/1952	1.78	1.78	1.78	1.83	1.87	1.94	2.07	2.2	2.32	2.51	2.48	2.51	1.78
07/31/1952	1.83	1.85	1.86	1.91	1.99	2.05	2.15	2.25	2.36	2.53	2.49	2.53	1.83
08/29/1952	1.69	1.85	1.93	1.97	2.08	2.13	2.21	2.31	2.42	2.6	2.57	2.6	1.69
09/30/1952	1.55	1.76	1.82	1.94	2.09	2.15	2.22	2.34	2.48	2.69	2.66	2.69	1.55
10/31/1952	1.51	1.81	1.77	1.86	2.04	2.11	2.19	2.3	2.42	2.6	2.57	2.6	1.51
11/28/1952	1.72	1.95	2.03	2.05	2.17	2.2	2.26	2.35	2.45	2.62	2.58	2.62	1.72
12/31/1952	1.97	2.04	1.95	2.01	2.17	2.22	2.27	2.37	2.49	2.67	2.64	2.67	1.95
01/30/1953	1.84	1.9	1.91	1.96	2.12	2.17	2.24	2.34	2.46	2.69	2.68	2.69	1.84
02/27/1953	2.01	2.05	1.95	2.06	2.2	2.24	2.3	2.4	2.53	2.76	2.76	2.76	1.95
03/31/1953	2.01	2.05	2.01	2.11	2.21	2.27	2.36	2.47	2.59	2.83	2.82	2.83	2.01
04/30/1953	2.12	2.29	2.28	2.4	2.46	2.47	2.53	2.66	2.8	2.96	3.06	3.06	2.12
05/29/1953	1.88	2.31	2.4	2.57	2.64	2.67	2.76	2.92	3.08	3.16	3.2	3.2	1.88

# ESTIMATED ANNUITY YIELDS (in %)

Fully Taxable, Curve Type: pwcf, Principal Adj: 10%, 06-JUL-24

Quote Date	0.0833YR	0.25YR	0.5YR	1.0YR	2.0YR	3.0YR	5.0YR	7.0YR	10.0YR	20.0YR	30.0YR	Max	Min
06/30/1953	1.7	2.01	2.13	2.3	2.41	2.46	2.56	2.7	2.84	2.98	3.08	3.08	1.7
07/31/1953	1.93	2.08	2.09	2.29	2.3	2.38	2.52	2.64	2.76	3	3.1	3.1	1.93
08/31/1953	1.79	1.89	2.11	2.3	2.24	2.34	2.55	2.67	2.8	3.02	3.11	3.11	1.79
09/30/1953	1.34	1.51	1.72	1.92	2.08	2.19	2.33	2.39	2.48	2.78	2.94	2.94	1.34
10/30/1953	0.93	1.22	1.3	1.58	1.8	1.96	2.16	2.27	2.39	2.72	2.88	2.88	0.93
11/30/1953	1.2	1.49	1.47	1.52	1.81	1.98	2.18	2.33	2.49	2.78	2.91	2.91	1.2
12/31/1953	1.28	1.39	1.2	1.45	1.73	1.87	2.03	2.14	2.29	2.63	2.78	2.78	1.2
01/29/1954	0.96	0.79	0.72	1	1.32	1.51	1.75	1.96	2.17	2.54	2.69	2.69	0.72
02/26/1954	0.84	0.88	0.66	0.95	1.17	1.35	1.63	1.9	2.16	2.5	2.61	2.61	0.66
03/31/1954	0.98	1.03	0.6	0.88	1.17	1.35	1.61	1.86	2.12	2.48	2.65	2.65	0.6
04/30/1954	0.65	0.62	0.04	0.58	0.98	1.2	1.49	1.73	1.99	2.43	2.6	2.6	0.04
05/28/1954	0.59	0.62	0.53	0.69	1.07	1.33	1.66	1.92	2.16	2.5	2.62	2.62	0.53
06/30/1954	0.59	0.6	0.58	0.59	0.9	1.15	1.5	1.78	2.06	2.46	2.51	2.51	0.58
07/30/1954	0.64	0.66	0.66	0.49	0.89	1.18	1.53	1.81	2.07	2.42	2.45	2.45	0.49
08/31/1954	1.03	0.98	0.84	0.72	1.03	1.27	1.59	1.86	2.12	2.45	2.47	2.47	0.72
09/30/1954	0.86	0.97	0.85	0.83	1.19	1.42	1.71	1.95	2.18	2.46	2.48	2.48	0.83
10/29/1954	0.76	0.98	0.99	0.99	1.33	1.55	1.82	2.03	2.22	2.47	2.5	2.5	0.76
11/30/1954	0.88	1.02	0.98	0.97	1.33	1.55	1.81	2.02	2.21	2.49	2.52	2.52	0.88
12/31/1954	0.96	1	0.85	1.06	1.41	1.63	1.89	2.08	2.26	2.52	2.52	2.52	0.85
01/31/1955	1.11	1.11	1.12	1.26	1.6	1.79	2.02	2.19	2.37	2.63	2.63	2.63	1.11
02/28/1955	1.08	1.32	1.32	1.58	1.95	2.11	2.27	2.39	2.52	2.72	2.84	2.84	1.08
03/31/1955	1.28	1.39	1.4	1.47	1.86	2.05	2.25	2.39	2.51	2.7	2.81	2.81	1.28
04/29/1955	1.47	1.55	1.53	1.64	1.96	2.14	2.33	2.45	2.56	2.74	2.83	2.83	1.47
05/31/1955	1.05	1.39	1.45	1.7	1.98	2.14	2.32	2.44	2.55	2.71	2.81	2.81	1.05
06/30/1955	1.29	1.49	1.57	1.73	2.05	2.23	2.42	2.55	2.67	2.81	2.87	2.87	1.29
07/29/1955	1.72	1.81	1.77	1.93	2.27	2.44	2.61	2.74	2.85	2.95	2.98	2.98	1.72
08/31/1955	1.98	2.12	1.96	2.12	2.43	2.57	2.72	2.8	2.87	2.93	2.98	2.98	1.96
09/30/1955	2.14	2.16	2.1	2.16	2.31	2.43	2.59	2.68	2.76	2.86	2.94	2.94	2.1
10/31/1955	2.05	2.09	2.03	2.17	2.32	2.42	2.55	2.62	2.69	2.8	2.87	2.87	2.03
11/30/1955	2.03	2.45	2.28	2.47	2.64	2.7	2.75	2.78	2.82	2.88	2.93	2.93	2.03
12/30/1955	2.44	2.53	2.62	2.64	2.74	2.78	2.82	2.84	2.87	2.91	2.93	2.93	2.44
01/31/1956	2.29	2.38	2.35	2.31	2.47	2.54	2.62	2.68	2.73	2.82	2.88	2.88	2.29
02/29/1956	1.97	2.34	2.34	2.43	2.56	2.62	2.67	2.72	2.77	2.84	2.9	2.9	1.97
03/29/1956	2.22	2.29	2.29	2.52	2.78	2.86	2.93	2.98	3.01	3.02	3.03	3.03	2.22

# ESTIMATED ANNUITY YIELDS (in %)

Fully Taxable, Curve Type: pwcf, Principal Adj: 10%, 06-JUL-24

Quote Date	0.0833YR	0.25YR	0.5YR	1.0YR	2.0YR	3.0YR	5.0YR	7.0YR	10.0YR	20.0YR	30.0YR	Max	Min
04/30/1956	2.64	2.7	2.72	2.88	3.12	3.14	3.12	3.11	3.11	3.08	3.11	3.14	2.64
05/31/1956	2.33	2.56	2.55	2.74	2.87	2.9	2.91	2.92	2.92	2.93	2.97	2.97	2.33
06/29/1956	2.33	2.44	2.46	2.54	2.74	2.81	2.86	2.91	2.94	2.95	2.98	2.98	2.33
07/31/1956	2.08	2.39	2.59	2.77	3.01	3.09	3.14	3.17	3.19	3.13	3.14	3.19	2.08
08/31/1956	2.4	2.71	2.98	3.07	3.28	3.37	3.42	3.43	3.41	3.32	3.28	3.43	2.4
09/28/1956	2.7	2.95	3.15	3.17	3.34	3.39	3.4	3.37	3.34	3.28	3.25	3.4	2.7
10/31/1956	2.58	2.94	2.95	3.1	3.27	3.34	3.39	3.41	3.42	3.35	3.32	3.42	2.58
11/30/1956	2.57	3.14	3.21	3.33	3.58	3.63	3.61	3.58	3.53	3.44	3.39	3.63	2.57
12/31/1956	3.09	3.35	3.25	3.44	3.58	3.61	3.61	3.61	3.62	3.6	3.55	3.62	3.09
01/31/1957	3.08	3.22	3.07	3.13	3.26	3.29	3.3	3.29	3.28	3.25	3.27	3.3	3.07
02/28/1957	2.91	3.39	3.22	3.31	3.41	3.43	3.42	3.39	3.37	3.36	3.33	3.43	2.91
03/29/1957	2.87	3.1	3.02	3.25	3.34	3.38	3.41	3.39	3.36	3.32	3.32	3.41	2.87
04/30/1957	3.08	3.11	3.12	3.38	3.46	3.5	3.55	3.56	3.55	3.48	3.46	3.56	3.08
05/31/1957	3.17	3.36	3.31	3.46	3.52	3.58	3.65	3.68	3.69	3.62	3.56	3.69	3.17
06/27/1957	3.01	3.38	3.71	3.65	3.73	3.78	3.85	3.9	3.93	3.82	3.73	3.93	3.01
07/31/1957	3.1	3.42	3.57	3.77	3.8	3.84	3.91	3.95	3.95	3.79	3.71	3.95	3.1
08/30/1957	3.09	3.6	4.11	3.98	3.96	3.94	3.91	3.89	3.86	3.75	3.7	4.11	3.09
09/30/1957	3.09	3.59	4.07	4.08	3.99	3.99	3.99	3.96	3.92	3.87	3.76	4.08	3.09
10/31/1957	3.37	3.74	3.86	3.88	3.88	3.93	3.98	3.92	3.87	3.87	3.78	3.98	3.37
11/29/1957	2.53	3.21	3.28	3.36	3.23	3.24	3.27	3.23	3.21	3.37	3.44	3.44	2.53
12/31/1957	2.74	2.81	2.95	2.84	2.76	2.75	2.78	2.8	2.86	3.11	3.22	3.22	2.74
01/31/1958	1.51	1.45	1.9	2.03	2.24	2.42	2.63	2.72	2.82	3.15	3.23	3.23	1.45
02/28/1958	1.11	1.27	1.35	1.6	1.81	2.04	2.34	2.48	2.63	3.02	3.2	3.2	1.11
03/31/1958	0.99	1.19	1.34	1.53	1.77	1.99	2.28	2.45	2.61	2.97	3.23	3.23	0.99
04/30/1958	1.16	1.18	0.99	1.26	1.47	1.73	2.09	2.29	2.49	2.92	3.1	3.1	0.99
05/29/1958	0.33	0.45	0.44	1.41	1.52	1.71	2.04	2.25	2.46	2.91	3.1	3.1	0.33
06/30/1958	0.69	0.79	1.17	1.08	1.41	1.77	2.22	2.43	2.64	3.08	3.21	3.21	0.69
07/31/1958	0.71	0.89	1.34	1.46	1.71	2.04	2.48	2.69	2.89	3.26	3.39	3.39	0.71
08/29/1958	1.82	2.38	2.6	2.67	3.02	3.24	3.48	3.57	3.63	3.75	3.77	3.77	1.82
09/30/1958	1.81	2.85	3.26	3.06	3.24	3.41	3.61	3.67	3.71	3.82	3.84	3.84	1.81
10/31/1958	1.64	2.62	2.7	2.82	3.16	3.37	3.6	3.68	3.74	3.78	3.8	3.8	1.64
11/28/1958	1.95	2.74	2.91	3.09	3.24	3.36	3.51	3.55	3.58	3.68	3.72	3.72	1.95
12/31/1958	2.39	2.74	2.99	2.97	3.2	3.4	3.64	3.76	3.85	3.9	3.89	3.9	2.39
01/30/1959	2.44	2.74	3.08	3.38	3.55	3.69	3.86	3.91	3.95	3.99	4	4	2.44

# ESTIMATED ANNUITY YIELDS (in %)

Fully Taxable, Curve Type: pwcf, Principal Adj: 10%, 06-JUL-24

Quote Date	0.0833YR	0.25YR	0.5YR	1.0YR	2.0YR	3.0YR	5.0YR	7.0YR	10.0YR	20.0YR	30.0YR	Max	Min
02/27/1959	2.36	2.85	3.08	3.33	3.52	3.63	3.74	3.77	3.81	3.9	3.94	3.94	2.36
03/31/1959	2.39	2.83	3.28	3.51	3.68	3.8	3.93	3.97	3.98	4.01	4.02	4.02	2.39
04/30/1959	2.72	2.87	3.33	3.67	3.8	3.93	4.09	4.18	4.23	4.18	4.14	4.23	2.72
05/29/1959	2.69	2.99	3.54	3.84	3.95	4.05	4.2	4.26	4.28	4.22	4.18	4.28	2.69
06/30/1959	2.73	3.02	3.8	3.98	4.14	4.28	4.42	4.43	4.4	4.3	4.2	4.43	2.73
07/31/1959	2.29	2.98	3.82	4.14	4.23	4.33	4.44	4.46	4.45	4.32	4.18	4.46	2.29
08/31/1959	3.47	3.79	4.57	4.55	4.6	4.66	4.72	4.73	4.7	4.49	4.31	4.73	3.47
09/30/1959	3.4	4.13	5.03	4.96	4.9	4.88	4.86	4.8	4.72	4.52	4.32	5.03	3.4
10/30/1959	3.05	4.11	4.38	4.36	4.42	4.5	4.57	4.55	4.5	4.38	4.22	4.57	3.05
11/30/1959	3.01	4.4	5	4.87	4.84	4.86	4.85	4.76	4.65	4.49	4.32	5	3.01
12/31/1959	4.09	4.45	5.17	4.91	4.97	4.98	4.96	4.94	4.91	4.71	4.57	5.17	4.09
01/29/1960	3.48	4.12	4.63	4.56	4.62	4.68	4.73	4.75	4.72	4.57	4.49	4.75	3.48
02/29/1960	3.88	4.35	4.48	4.52	4.55	4.61	4.68	4.68	4.64	4.47	4.4	4.68	3.88
03/31/1960	2.55	3.05	3.5	3.54	3.74	3.86	3.99	4.06	4.11	4.13	4.13	4.13	2.55
04/29/1960	3	3.03	3.49	3.96	4.12	4.23	4.35	4.34	4.32	4.32	4.3	4.35	3
05/31/1960	2.36	3.18	3.42	3.84	4.08	4.19	4.29	4.31	4.3	4.23	4.2	4.31	2.36
06/30/1960	1.59	2.17	2.62	3.03	3.39	3.59	3.8	3.9	3.98	4.08	3.99	4.08	1.59
07/29/1960	1.81	2.23	2.56	2.82	2.91	3.06	3.29	3.4	3.51	3.76	3.75	3.76	1.81
08/31/1960	1.75	2.35	2.74	2.88	2.94	3.1	3.35	3.47	3.59	3.82	3.83	3.83	1.75
09/30/1960	2.42	2.4	2.98	2.9	2.89	3.08	3.36	3.49	3.59	3.78	3.83	3.83	2.4
10/31/1960	1.52	2.24	2.61	2.82	2.94	3.13	3.4	3.56	3.69	3.86	3.88	3.88	1.52
11/30/1960	1.52	2.39	2.77	2.99	3.14	3.33	3.62	3.77	3.89	4.02	4.01	4.02	1.52
12/30/1960	2.02	2.24	2.46	2.57	2.69	2.89	3.18	3.36	3.52	3.76	3.81	3.81	2.02
01/31/1961	2.01	2.25	2.51	2.71	2.92	3.15	3.45	3.59	3.72	3.9	3.93	3.93	2.01
02/28/1961	2.47	2.59	2.8	2.93	3.04	3.19	3.39	3.5	3.6	3.78	3.8	3.8	2.47
03/30/1961	2.15	2.43	2.61	2.81	2.93	3.1	3.35	3.51	3.65	3.82	3.84	3.84	2.15
04/28/1961	1.79	2.25	2.45	2.73	2.92	3.06	3.26	3.42	3.58	3.75	3.78	3.78	1.79
05/31/1961	2.3	2.37	2.64	2.82	3.06	3.21	3.4	3.54	3.67	3.8	3.8	3.8	2.3
06/30/1961	2.08	2.32	2.55	2.81	3.1	3.31	3.55	3.69	3.81	3.93	3.95	3.95	2.08
07/31/1961	1.61	2.24	2.47	2.71	3.03	3.28	3.59	3.76	3.88	3.96	3.96	3.96	1.61
08/31/1961	2.03	2.23	2.73	2.91	3.19	3.42	3.7	3.83	3.94	4.03	4.06	4.06	2.03
09/29/1961	2	2.26	2.74	2.87	3.15	3.35	3.59	3.71	3.8	3.94	4.02	4.02	2
10/31/1961	1.97	2.32	2.68	2.85	3.12	3.31	3.54	3.69	3.81	3.93	4	4	1.97
11/30/1961	2.25	2.55	2.83	2.94	3.2	3.38	3.61	3.77	3.91	4.03	4.06	4.06	2.25

# ESTIMATED ANNUITY YIELDS (in %)

Fully Taxable, Curve Type: pwcf, Principal Adj: 10%, 06-JUL-24

Quote Date	0.0833YR	0.25YR	0.5YR	1.0YR	2.0YR	3.0YR	5.0YR	7.0YR	10.0YR	20.0YR	30.0YR	Max	Min
12/29/1961	2.51	2.74	2.99	3.07	3.31	3.48	3.7	3.85	3.98	4.11	4.12	4.12	2.51
01/31/1962	2.44	2.74	2.98	3.18	3.43	3.59	3.8	3.94	4.06	4.15	4.16	4.16	2.44
02/28/1962	2.49	2.78	2.95	3.09	3.24	3.38	3.57	3.73	3.88	4.08	4.12	4.12	2.49
03/30/1962	2.71	2.82	2.94	2.9	3.08	3.22	3.42	3.57	3.71	3.91	3.98	3.98	2.71
04/30/1962	2.74	2.81	2.83	2.94	3.15	3.29	3.46	3.56	3.66	3.83	3.9	3.9	2.74
05/31/1962	2.4	2.76	2.79	2.92	3.07	3.21	3.42	3.57	3.71	3.87	3.92	3.92	2.4
06/29/1962	2.95	2.95	3.02	3.07	3.25	3.39	3.57	3.72	3.86	3.98	4.01	4.01	2.95
07/31/1962	2.69	2.9	3.11	3.21	3.36	3.48	3.65	3.78	3.91	4.04	4.08	4.08	2.69
08/31/1962	2.7	2.84	3.06	3.09	3.14	3.25	3.45	3.62	3.78	3.94	3.99	3.99	2.7
09/28/1962	2.73	2.81	3	2.97	3.04	3.18	3.42	3.6	3.77	3.93	3.97	3.97	2.73
10/31/1962	2.53	2.78	2.88	2.93	3.03	3.18	3.4	3.56	3.7	3.88	3.92	3.92	2.53
11/30/1962	2.64	2.93	3.02	3	3.15	3.25	3.41	3.56	3.71	3.89	3.93	3.93	2.64
12/31/1962	3	3	3.05	3.01	3.18	3.28	3.4	3.53	3.67	3.86	3.92	3.92	3
01/31/1963	2.91	3.01	3.05	3.04	3.1	3.23	3.44	3.58	3.7	3.88	3.95	3.95	2.91
02/28/1963	2.87	2.99	3.02	2.99	3.09	3.23	3.45	3.6	3.74	3.94	3.97	3.97	2.87
03/29/1963	2.86	2.99	3.07	3	3.09	3.25	3.48	3.63	3.77	3.96	3.99	3.99	2.86
04/30/1963	2.9	2.99	3.05	3.1	3.17	3.31	3.51	3.65	3.78	3.98	4.04	4.04	2.9
05/31/1963	2.92	3.07	3.15	3.16	3.22	3.36	3.57	3.7	3.82	3.99	4.04	4.04	2.92
06/28/1963	3.02	3.07	3.17	3.14	3.22	3.38	3.61	3.75	3.87	4	4.05	4.05	3.02
07/31/1963	3.1	3.36	3.42	3.41	3.48	3.6	3.76	3.85	3.92	4.01	4.05	4.05	3.1
08/30/1963	3.27	3.48	3.56	3.6	3.62	3.7	3.82	3.9	3.97	4.03	4.05	4.05	3.27
09/30/1963	3.49	3.53	3.61	3.61	3.62	3.7	3.82	3.9	3.98	4.07	4.09	4.09	3.49
10/31/1963	3.39	3.62	3.7	3.67	3.71	3.78	3.9	3.98	4.05	4.13	4.14	4.14	3.39
11/29/1963	3.17	3.61	3.77	3.76	3.79	3.84	3.92	3.97	4.03	4.13	4.16	4.16	3.17
12/31/1963	3.55	3.62	3.78	3.82	3.89	3.94	4.01	4.04	4.08	4.18	4.2	4.2	3.55
01/31/1964	3.49	3.6	3.71	3.71	3.84	3.9	3.96	4.03	4.09	4.18	4.19	4.19	3.49
02/28/1964	3.58	3.69	3.86	3.88	3.98	4.01	4.05	4.1	4.15	4.21	4.21	4.21	3.58
03/31/1964	3.59	3.65	3.82	3.88	4.04	4.1	4.15	4.18	4.21	4.26	4.26	4.26	3.59
04/30/1964	3.39	3.52	3.69	3.79	3.92	3.99	4.07	4.12	4.17	4.25	4.25	4.25	3.39
05/28/1964	3.21	3.55	3.67	3.79	3.91	3.95	4	4.06	4.12	4.2	4.21	4.21	3.21
06/30/1964	3.48	3.58	3.64	3.76	3.81	3.86	3.95	4.01	4.07	4.16	4.17	4.17	3.48
07/31/1964	3.39	3.58	3.66	3.72	3.73	3.79	3.91	4	4.08	4.19	4.21	4.21	3.39
08/31/1964	3.32	3.59	3.73	3.81	3.83	3.88	3.96	4.04	4.11	4.21	4.22	4.22	3.32
09/30/1964	3.61	3.66	3.85	3.88	3.89	3.91	3.96	4.02	4.09	4.2	4.21	4.21	3.61

# ESTIMATED ANNUITY YIELDS (in %)

Fully Taxable, Curve Type: pwcf, Principal Adj: 10%, 06-JUL-24

Quote Date	0.0833YR	0.25YR	0.5YR	1.0YR	2.0YR	3.0YR	5.0YR	7.0YR	10.0YR	20.0YR	30.0YR	Max	Min
10/30/1964	3.51	3.67	3.84	3.9	3.91	3.94	3.99	4.05	4.1	4.18	4.2	4.2	3.51
11/30/1964	3.64	3.96	4.14	4.18	4.13	4.11	4.11	4.14	4.16	4.22	4.23	4.23	3.64
12/31/1964	3.6	3.94	4.09	4.05	3.99	3.98	4.01	4.06	4.13	4.21	4.23	4.23	3.6
01/29/1965	3.92	3.99	4.11	4.05	3.99	3.98	4.01	4.06	4.12	4.21	4.22	4.22	3.92
02/26/1965	3.93	4.13	4.17	4.15	4.11	4.08	4.08	4.12	4.16	4.21	4.23	4.23	3.93
03/31/1965	3.9	4.08	4.11	4.1	4.05	4.05	4.08	4.11	4.15	4.2	4.22	4.22	3.9
04/30/1965	3.98	4.07	4.1	4.08	4.05	4.05	4.07	4.11	4.15	4.21	4.22	4.22	3.98
05/28/1965	3.83	4.01	4.08	4.08	4.04	4.04	4.06	4.11	4.17	4.22	4.23	4.23	3.83
06/30/1965	3.86	3.95	3.99	3.97	3.94	3.96	4.01	4.07	4.14	4.2	4.22	4.22	3.86
07/30/1965	3.89	3.95	4.02	4	3.99	4.01	4.06	4.11	4.17	4.23	4.24	4.24	3.89
08/31/1965	3.86	3.99	4.14	4.15	4.12	4.13	4.16	4.2	4.24	4.3	4.3	4.3	3.86
09/30/1965	4.02	4.15	4.37	4.34	4.31	4.3	4.3	4.32	4.34	4.38	4.37	4.38	4.02
10/29/1965	3.99	4.2	4.37	4.35	4.3	4.3	4.33	4.35	4.38	4.41	4.39	4.41	3.99
11/30/1965	3.9	4.26	4.43	4.43	4.4	4.38	4.39	4.42	4.45	4.46	4.44	4.46	3.9
12/31/1965	4.52	4.66	4.86	4.9	4.93	4.91	4.85	4.8	4.75	4.62	4.57	4.93	4.52
01/31/1966	4.62	4.81	4.9	4.88	4.9	4.89	4.88	4.86	4.82	4.67	4.62	4.9	4.62
02/28/1966	4.56	4.82	5.02	4.98	4.99	4.99	5.01	5.07	5.09	4.93	4.86	5.09	4.56
03/31/1966	4.41	4.68	4.88	4.84	4.82	4.79	4.75	4.77	4.77	4.68	4.65	4.88	4.41
04/29/1966	4.74	4.8	4.89	4.93	4.91	4.87	4.83	4.84	4.85	4.76	4.71	4.93	4.71
05/31/1966	4.56	4.79	5	5.06	5.07	5.04	5.01	4.97	4.92	4.8	4.76	5.07	4.56
06/30/1966	4.58	4.65	4.92	4.98	5.04	5.08	5.11	5.1	5.06	4.94	4.86	5.11	4.58
07/29/1966	4.65	4.93	5.11	5.19	5.21	5.23	5.24	5.25	5.22	5	4.9	5.25	4.65
08/31/1966	4.86	5.18	5.78	5.79	5.82	5.8	5.73	5.65	5.53	5.19	5.05	5.82	4.86
09/30/1966	5.39	5.62	5.94	5.78	5.6	5.51	5.4	5.3	5.19	4.99	4.88	5.94	4.88
10/31/1966	4.85	5.56	5.59	5.55	5.38	5.31	5.24	5.19	5.11	4.87	4.77	5.59	4.77
11/30/1966	4.45	5.41	5.49	5.51	5.45	5.37	5.29	5.26	5.21	4.99	4.89	5.51	4.45
12/30/1966	4.76	5.05	5.17	5.1	4.86	4.79	4.75	4.74	4.71	4.64	4.6	5.17	4.6
01/31/1967	4.63	4.71	4.71	4.69	4.51	4.49	4.53	4.54	4.54	4.49	4.48	4.71	4.48
02/28/1967	4.59	4.71	4.77	4.75	4.67	4.66	4.68	4.71	4.73	4.71	4.67	4.77	4.59
03/31/1967	4.09	4.21	4.24	4.17	4.08	4.13	4.26	4.34	4.42	4.54	4.57	4.57	4.08
04/28/1967	3.51	3.84	3.98	4.07	4.12	4.28	4.5	4.6	4.69	4.78	4.76	4.78	3.51
05/31/1967	3.32	3.51	3.88	4.03	4.2	4.34	4.52	4.61	4.7	4.84	4.82	4.84	3.32
06/30/1967	3.89	4.09	4.59	4.92	4.9	4.99	5.16	5.23	5.26	5.16	5.08	5.26	3.89
07/31/1967	3.88	4.24	4.75	5.02	4.86	4.88	5	5.07	5.11	5.08	5.03	5.11	3.88



# ESTIMATED ANNUITY YIELDS (in %)

Fully Taxable, Curve Type: pwcf, Principal Adj: 10%, 06-JUL-24

Quote Date	0.0833YR	0.25YR	0.5YR	1.0YR	2.0YR	3.0YR	5.0YR	7.0YR	10.0YR	20.0YR	30.0YR	Max	Min
08/31/1967	3.93	4.47	5.05	5.2	5.11	5.16	5.27	5.31	5.3	5.17	5.11	5.31	3.93
09/29/1967	4.34	4.57	5.29	5.32	5.14	5.18	5.29	5.32	5.32	5.22	5.15	5.32	4.34
10/31/1967	4.24	4.68	5.31	5.44	5.37	5.44	5.58	5.64	5.67	5.56	5.55	5.67	4.24
11/30/1967	4.18	4.99	5.74	5.73	5.56	5.58	5.67	5.74	5.79	5.74	5.72	5.79	4.18
12/29/1967	4.43	5.22	5.81	5.82	5.7	5.69	5.72	5.73	5.72	5.67	5.62	5.82	4.43
01/31/1968	4.82	5.03	5.25	5.35	5.28	5.32	5.42	5.48	5.52	5.5	5.41	5.52	4.82
02/29/1968	4.85	5.24	5.43	5.42	5.36	5.4	5.49	5.54	5.57	5.5	5.46	5.57	4.85
03/29/1968	5.1	5.42	5.48	5.53	5.49	5.54	5.64	5.71	5.75	5.72	5.67	5.75	5.1
04/30/1968	5.64	5.79	5.8	5.84	5.73	5.73	5.79	5.83	5.83	5.68	5.58	5.84	5.58
05/31/1968	5.6	5.98	6.01	6.03	5.88	5.81	5.78	5.85	5.89	5.8	5.35	6.03	5.35
06/28/1968	5.43	5.57	5.79	5.85	5.73	5.65	5.6	5.66	5.69	5.51	5.44	5.85	5.43
07/31/1968	5.28	5.39	5.55	5.41	5.28	5.22	5.21	5.31	5.39	5.28	5.26	5.55	5.21
08/30/1968	5.14	5.33	5.55	5.41	5.26	5.21	5.22	5.35	5.45	5.3	5.26	5.55	5.14
09/30/1968	5.3	5.36	5.64	5.41	5.32	5.26	5.25	5.39	5.5	5.4	5.36	5.64	5.25
10/31/1968	5.49	5.72	5.82	5.66	5.53	5.42	5.36	5.5	5.63	5.53	5.5	5.82	5.36
11/29/1968	5.11	5.71	5.9	5.83	5.67	5.55	5.49	5.65	5.79	5.72	5.68	5.9	5.11
12/31/1968	6.31	6.46	6.76	6.56	6.46	6.29	6.13	6.23	6.32	6.09	6.03	6.76	6.03
01/31/1969	6.14	6.48	6.66	6.49	6.32	6.15	6.02	6.16	6.28	6.16	6.2	6.66	6.02
02/28/1969	5.86	6.48	6.69	6.58	6.49	6.42	6.36	6.38	6.39	6.26	6.26	6.69	5.86
03/28/1969	5.48	6.3	6.37	6.4	6.27	6.21	6.21	6.3	6.38	6.36	6.32	6.4	5.48
04/30/1969	6.28	6.21	6.23	6.19	6.23	6.15	6.09	6.23	6.34	6.11	6.05	6.34	6.05
05/29/1969	6.07	6.37	6.47	6.63	6.67	6.61	6.56	6.61	6.64	6.51	6.45	6.67	6.07
06/30/1969	6.7	6.86	7.22	7.6	7.44	7.27	7.09	7	6.89	6.52	6.41	7.6	6.41
07/31/1969	6.69	7.53	7.51	7.66	7.61	7.44	7.19	7.03	6.86	6.48	6.36	7.66	6.36
08/29/1969	7.29	7.22	7.55	7.75	7.63	7.52	7.35	7.22	7.03	6.57	6.44	7.75	6.44
09/30/1969	7.19	7.38	7.84	8.03	8.08	8.12	8.12	8.02	7.83	7.23	6.97	8.12	6.97
10/31/1969	6.94	7.35	7.79	7.73	7.54	7.51	7.47	7.32	7.14	6.85	6.65	7.79	6.65
11/28/1969	6.83	7.9	8.42	8.23	7.92	7.82	7.72	7.57	7.42	7.26	6.95	8.42	6.83
12/31/1969	7.28	8.44	8.6	8.41	8.38	8.39	8.35	8.17	7.97	7.64	7.22	8.6	7.22
01/30/1970	7.8	8.35	8.37	8.27	8.25	8.3	8.34	8.26	8.1	7.5	7.21	8.37	7.21
02/27/1970	6.53	7.17	7.27	7.09	7.19	7.28	7.35	7.32	7.23	6.83	6.67	7.35	6.53
03/31/1970	6.63	6.65	6.77	6.81	6.95	7.08	7.23	7.26	7.23	6.97	6.79	7.26	6.63
04/30/1970	6.76	7.26	7.61	7.64	7.79	7.89	7.99	8.03	8.01	7.64	7.25	8.03	6.76
05/29/1970	6.63	7.36	7.47	7.59	7.87	7.93	7.93	7.94	7.93	7.81	7.39	7.94	6.63

# ESTIMATED ANNUITY YIELDS (in %)

Fully Taxable, Curve Type: pwcf, Principal Adj: 10%, 06-JUL-24

Quote Date	0.0833YR	0.25YR	0.5YR	1.0YR	2.0YR	3.0YR	5.0YR	7.0YR	10.0YR	20.0YR	30.0YR	Max	Min
06/30/1970	6.14	6.76	6.94	7.28	7.56	7.69	7.81	7.87	7.85	7.46	7.05	7.87	6.14
07/31/1970	6.28	6.55	6.74	6.97	7.24	7.4	7.57	7.64	7.61	7.15	6.84	7.64	6.28
08/31/1970	6.3	6.49	6.8	6.88	7.13	7.28	7.45	7.53	7.56	7.37	6.98	7.56	6.3
09/30/1970	5.74	6.06	6.8	6.75	6.76	6.88	7.09	7.23	7.32	7.21	6.81	7.32	5.74
10/30/1970	5.44	6.06	6.39	6.43	6.57	6.73	6.96	7.1	7.23	7.28	6.87	7.28	5.44
11/30/1970	4.55	5.15	5.18	5.17	5.29	5.5	5.84	6.1	6.32	6.47	6.24	6.47	4.55
12/31/1970	4.65	5.03	5.04	5.04	5.35	5.59	5.88	6.07	6.26	6.49	6.29	6.49	4.65
01/29/1971	4.12	4.19	4.33	4.25	4.5	4.89	5.44	5.75	5.98	6.08	5.94	6.08	4.12
02/26/1971	3.26	3.44	3.65	3.68	3.99	4.39	4.98	5.38	5.74	6.16	6.05	6.16	3.26
03/31/1971	3.51	3.74	3.68	3.8	3.96	4.26	4.71	5.01	5.28	5.64	5.64	5.64	3.51
04/30/1971	3.8	3.99	4.37	4.56	4.98	5.34	5.77	5.97	6.1	6.09	5.97	6.1	3.8
05/28/1971	3.99	4.43	4.54	4.85	5.35	5.62	5.94	6.18	6.37	6.35	6.15	6.37	3.99
06/30/1971	5.02	5.23	5.43	5.94	6.31	6.53	6.77	6.86	6.87	6.59	6.34	6.87	5.02
07/30/1971	5.23	5.33	5.9	6.06	6.36	6.59	6.85	6.97	7.01	6.75	6.31	7.01	5.23
08/31/1971	4.51	4.42	4.85	5.16	5.45	5.62	5.84	6.03	6.2	6.3	5.9	6.3	4.42
09/30/1971	4.48	4.73	5.07	5.24	5.41	5.59	5.84	5.94	6.02	6.06	5.77	6.06	4.48
10/29/1971	4.12	4.48	4.54	4.58	4.82	5.07	5.41	5.6	5.76	5.92	5.69	5.92	4.12
11/30/1971	3.96	4.4	4.56	4.7	4.94	5.17	5.48	5.69	5.89	6.12	5.77	6.12	3.96
12/31/1971	3.42	3.85	4.08	4.25	4.63	4.88	5.2	5.46	5.73	6.05	5.78	6.05	3.42
01/31/1972	3.14	3.38	3.75	4.07	4.56	4.94	5.41	5.69	5.94	6.22	5.87	6.22	3.14
02/29/1972	3.21	3.43	3.82	4.12	4.54	4.9	5.36	5.64	5.9	6.18	5.79	6.18	3.21
03/30/1972	3.53	3.95	4.53	4.84	5.32	5.6	5.9	6.03	6.14	6.25	5.9	6.25	3.53
04/28/1972	3.3	3.65	4.14	4.4	4.86	5.2	5.61	5.82	6	6.21	5.88	6.21	3.3
05/31/1972	3.49	3.85	4.22	4.51	4.82	5.12	5.51	5.73	5.93	6.14	5.73	6.14	3.49
06/30/1972	3.73	4.13	4.72	5.08	5.36	5.58	5.85	5.97	6.09	6.2	5.82	6.2	3.73
07/31/1972	3.58	3.85	4.43	4.76	5.08	5.39	5.77	5.96	6.09	6.18	6.03	6.18	3.58
08/31/1972	4.38	4.51	5.03	5.34	5.58	5.79	6.07	6.26	6.39	6.41	6.22	6.41	4.38
09/29/1972	4.58	4.75	5.39	5.59	5.8	5.93	6.1	6.28	6.42	6.49	6.31	6.49	4.58
10/31/1972	4.65	4.91	5.29	5.5	5.75	5.92	6.12	6.24	6.35	6.35	5.62	6.35	4.65
11/30/1972	4.82	5.01	5.39	5.46	5.63	5.8	6.02	6.14	6.24	6.23	5.47	6.24	4.82
12/29/1972	5	5.3	5.64	5.61	5.87	6.02	6.17	6.27	6.36	6.34	5.72	6.36	5
01/31/1973	5.71	5.91	6.08	6.21	6.33	6.41	6.49	6.48	6.5	6.76	6.71	6.76	5.71
02/28/1973	5.68	6.07	6.32	6.45	6.64	6.74	6.8	6.77	6.75	6.86	6.75	6.86	5.68
03/30/1973	6.22	6.69	7.13	7.13	7.11	7.06	6.97	6.91	6.87	6.89	6.74	7.13	6.22

# ESTIMATED ANNUITY YIELDS (in %)

Fully Taxable, Curve Type: pwcf, Principal Adj: 10%, 06-JUL-24

Quote Date	0.0833YR	0.25YR	0.5YR	1.0YR	2.0YR	3.0YR	5.0YR	7.0YR	10.0YR	20.0YR	30.0YR	Max	Min
04/30/1973	6.17	6.6	6.86	6.94	6.9	6.88	6.86	6.83	6.81	6.89	6.76	6.94	6.17
05/31/1973	6.76	7.29	7.31	7.33	7.14	7.01	6.91	6.91	6.95	7.07	7.13	7.33	6.76
06/29/1973	7.68	7.9	8.06	8.01	7.55	7.33	7.15	7.07	7.03	7.14	7.2	8.06	7.03
07/31/1973	8.66	8.76	8.89	9.09	8.57	8.37	8.18	7.95	7.76	7.69	7.7	9.09	7.69
08/31/1973	9	9.08	9.12	8.89	8.27	7.92	7.58	7.44	7.36	7.39	7.43	9.12	7.36
09/28/1973	7.64	7.44	8.17	7.88	7.36	7.11	6.9	6.88	6.91	7.04	6.94	8.17	6.88
10/31/1973	7.23	7.72	7.84	7.53	7.12	7.01	6.94	6.88	6.87	7.18	7.34	7.84	6.87
11/30/1973	7.76	7.85	8.42	7.86	7.24	7.06	6.95	6.88	6.88	7.12	7.25	8.42	6.88
12/31/1973	7.64	7.88	8	7.61	7.21	7.07	6.96	6.92	6.94	7.26	7.43	8	6.92
01/31/1974	7.87	7.95	7.81	7.39	7.08	6.99	6.96	6.99	7.08	7.38	7.52	7.95	6.96
02/28/1974	7.65	7.83	7.8	7.42	7.14	7.08	7.07	7.08	7.13	7.38	7.63	7.83	7.07
03/29/1974	8.82	9.04	8.96	8.64	8.23	8.07	7.93	7.84	7.75	7.72	8.02	9.04	7.72
04/30/1974	9.19	9.48	9.39	9.28	8.86	8.67	8.5	8.37	8.21	7.99	8.35	9.48	7.99
05/31/1974	8.19	8.57	8.91	8.84	8.53	8.4	8.28	8.21	8.1	7.89	8.17	8.91	7.89
06/28/1974	7.99	8.05	8.59	8.84	8.63	8.58	8.55	8.44	8.27	7.99	8.2	8.84	7.99
07/31/1974	7.99	8.03	8.57	8.85	8.79	8.75	8.7	8.62	8.47	8.14	8.4	8.85	7.99
08/30/1974	9.68	9.62	10.06	10.11	9.46	9.16	8.92	8.83	8.7	8.35	8.79	10.11	8.35
09/30/1974	6.37	6.62	8.04	8.41	8.32	8.28	8.24	8.21	8.16	8.18	8.61	8.61	6.37
10/31/1974	7.05	8.43	8.33	8.1	7.99	8.03	8.09	8.06	7.99	7.94	8.1	8.43	7.05
11/29/1974	7.71	7.89	8.16	7.85	7.59	7.58	7.64	7.7	7.74	7.8	8.02	8.16	7.58
12/31/1974	6.77	7.41	7.53	7.36	7.39	7.41	7.41	7.4	7.42	7.72	7.97	7.97	6.77
01/31/1975	5.62	5.98	6.22	6.23	6.58	6.85	7.15	7.29	7.39	7.54	7.71	7.71	5.62
02/28/1975	4.81	5.71	5.96	5.97	6.23	6.47	6.81	7.07	7.28	7.48	7.84	7.84	4.81
03/31/1975	5.4	5.82	6	6.23	6.63	6.91	7.24	7.45	7.61	7.8	8.26	8.26	5.4
04/30/1975	5.26	5.77	6.29	6.67	7.29	7.61	7.92	8.04	8.14	8.36	8.49	8.49	5.26
05/30/1975	5.03	5.4	5.7	6.01	6.6	6.93	7.29	7.55	7.78	8.11	8.28	8.28	5.03
06/30/1975	5.81	6.22	6.49	6.78	7.12	7.32	7.57	7.72	7.86	8.04	8.18	8.18	5.81
07/31/1975	6.19	6.48	7.09	7.28	7.6	7.77	7.95	8.01	8.08	8.22	8.32	8.32	6.19
08/29/1975	6.1	6.6	7.34	7.49	7.74	7.9	8.08	8.15	8.2	8.34	8.49	8.49	6.1
09/30/1975	6.51	6.86	7.46	7.65	8.02	8.19	8.34	8.42	8.47	8.55	8.71	8.71	6.51
10/31/1975	5.48	5.78	6.03	6.24	6.8	7.1	7.42	7.63	7.82	8.13	8.29	8.29	5.48
11/28/1975	5.06	5.79	6.32	6.52	7.07	7.36	7.66	7.89	8.08	8.27	8.45	8.45	5.06
12/31/1975	5.14	5.39	5.76	6.06	6.55	6.87	7.24	7.46	7.66	7.97	8.16	8.16	5.14
01/30/1976	4.6	4.9	5.19	5.47	6.09	6.55	7.11	7.43	7.68	7.92	8.11	8.11	4.6

# ESTIMATED ANNUITY YIELDS (in %)

Fully Taxable, Curve Type: pwcf, Principal Adj: 10%, 06-JUL-24

Quote Date	0.0833YR	0.25YR	0.5YR	1.0YR	2.0YR	3.0YR	5.0YR	7.0YR	10.0YR	20.0YR	30.0YR	Max	Min
02/27/1976	4.67	5.2	5.71	6.03	6.56	6.89	7.26	7.48	7.67	7.93	8.11	8.11	4.67
03/31/1976	4.9	5.14	5.57	5.93	6.46	6.8	7.18	7.4	7.58	7.82	8.01	8.01	4.9
04/30/1976	4.81	5.09	5.51	5.92	6.42	6.73	7.1	7.33	7.54	7.87	8.04	8.04	4.81
05/28/1976	5.33	5.77	6.23	6.62	7.12	7.38	7.65	7.8	7.93	8.15	8.1	8.15	5.33
06/30/1976	5.44	5.59	6.05	6.36	6.79	7.06	7.38	7.58	7.77	8.03	7.99	8.03	5.44
07/30/1976	5.22	5.37	5.74	6.04	6.53	6.84	7.21	7.46	7.7	8.03	7.98	8.03	5.22
08/31/1976	4.88	5.28	5.59	5.85	6.32	6.61	6.97	7.25	7.53	7.91	7.83	7.91	4.88
09/30/1976	5.2	5.29	5.59	5.75	6.14	6.42	6.8	7.09	7.37	7.77	7.74	7.77	5.2
10/29/1976	4.86	5.09	5.3	5.47	5.88	6.16	6.54	6.85	7.17	7.69	7.69	7.69	4.86
11/30/1976	4.46	4.6	4.78	4.92	5.28	5.52	5.87	6.21	6.6	7.36	7.4	7.4	4.46
12/31/1976	4.33	4.53	4.72	4.85	5.21	5.5	5.91	6.21	6.52	7.08	7.14	7.14	4.33
01/31/1977	4.66	4.92	5.23	5.54	5.99	6.31	6.71	6.96	7.2	7.62	7.6	7.62	4.66
02/28/1977	4.53	4.9	5.16	5.47	5.89	6.24	6.69	6.98	7.26	7.7	7.87	7.87	4.53
03/31/1977	4.61	4.74	4.99	5.33	5.78	6.15	6.62	6.93	7.21	7.66	7.83	7.83	4.61
04/29/1977	4.51	4.79	5.13	5.46	5.87	6.21	6.65	6.95	7.23	7.67	7.82	7.82	4.51
05/31/1977	4.96	5.23	5.48	5.72	6.03	6.29	6.65	6.91	7.18	7.63	7.78	7.78	4.96
06/30/1977	5.05	5.19	5.46	5.64	5.92	6.16	6.49	6.74	7	7.48	7.68	7.68	5.05
07/29/1977	5.49	5.62	5.98	6.16	6.4	6.6	6.88	7.08	7.28	7.65	7.81	7.81	5.49
08/31/1977	5.6	5.78	6.17	6.32	6.49	6.64	6.86	7.02	7.19	7.52	7.7	7.7	5.6
09/30/1977	6.01	6.22	6.54	6.63	6.79	6.9	7.06	7.19	7.33	7.62	7.78	7.78	6.01
10/31/1977	6	6.41	6.79	6.93	7.13	7.25	7.39	7.49	7.59	7.8	7.93	7.93	6
11/30/1977	5.75	6.36	6.78	6.88	7.06	7.17	7.31	7.41	7.51	7.76	7.89	7.89	5.75
12/30/1977	5.88	6.45	6.84	7	7.18	7.33	7.52	7.65	7.77	8	8.13	8.13	5.88
01/31/1978	6.17	6.74	7.09	7.24	7.44	7.57	7.72	7.83	7.94	8.17	8.29	8.29	6.17
02/28/1978	6.3	6.71	7.12	7.28	7.51	7.66	7.84	7.93	8.03	8.26	8.36	8.36	6.3
03/31/1978	6.83	6.78	7.17	7.38	7.63	7.78	7.93	8.04	8.15	8.36	8.45	8.45	6.78
04/28/1978	6.22	6.58	7.24	7.51	7.79	7.92	8.06	8.15	8.25	8.44	8.51	8.51	6.22
05/31/1978	6.57	6.98	7.63	7.92	8.13	8.22	8.32	8.4	8.48	8.63	8.67	8.67	6.57
06/30/1978	6.76	7.46	7.98	8.33	8.53	8.59	8.64	8.68	8.72	8.81	8.81	8.81	6.76
07/31/1978	6.74	7.2	7.87	8.29	8.48	8.52	8.56	8.59	8.64	8.73	8.74	8.74	6.74
08/31/1978	7.85	7.96	8.21	8.47	8.53	8.54	8.53	8.53	8.54	8.56	8.58	8.58	7.85
09/29/1978	8.36	8.62	8.99	9.01	8.86	8.76	8.66	8.65	8.67	8.75	8.76	9.01	8.36
10/31/1978	8.91	9.18	9.84	9.97	9.74	9.6	9.43	9.31	9.2	9.11	9.07	9.97	8.91
11/30/1978	9.44	9.65	10.05	10.2	9.94	9.65	9.31	9.18	9.1	9.02	8.97	10.2	8.97

## ESTIMATED ANNUITY YIELDS (in %)

Fully Taxable, Curve Type: pwcf, Principal Adj: 10%, 06-JUL-24

Quote Date	0.0833YR	0.25YR	0.5YR	1.0YR	2.0YR	3.0YR	5.0YR	7.0YR	10.0YR	20.0YR	30.0YR	Max	Min
12/29/1978	8.87	9.97	10.45	10.72	10.5	10.2	9.8	9.62	9.49	9.3	9.19	10.72	8.87
01/31/1979	10.01	9.98	10.21	10.29	10.06	9.75	9.37	9.25	9.19	9.1	9.05	10.29	9.05
02/28/1979	10.02	10.11	10.37	10.43	10.2	9.95	9.64	9.53	9.46	9.34	9.28	10.43	9.28
03/30/1979	10.12	10.21	10.3	10.19	10.03	9.81	9.54	9.43	9.36	9.28	9.22	10.3	9.22
04/30/1979	10.05	10.27	10.44	10.32	10.17	9.96	9.7	9.61	9.56	9.49	9.42	10.44	9.42
05/31/1979	10.16	10.3	10.27	10.1	9.84	9.61	9.34	9.26	9.23	9.27	9.24	10.3	9.23
06/29/1979	9.38	9.61	9.71	9.51	9.22	9.06	8.92	8.9	8.91	8.99	8.97	9.71	8.9
07/31/1979	9.53	9.85	10.17	9.99	9.64	9.43	9.23	9.19	9.17	9.17	9.13	10.17	9.13
08/31/1979	10.49	10.56	10.64	10.65	10.24	9.96	9.68	9.57	9.49	9.36	9.27	10.65	9.27
09/28/1979	10.7	11	11.19	11.19	10.67	10.32	9.95	9.81	9.72	9.6	9.48	11.19	9.48
10/31/1979	12.25	13.33	13.65	13.38	12.76	12.33	11.83	11.56	11.31	10.87	10.61	13.65	10.61
11/30/1979	11.27	12.38	12.67	12.07	11.61	11.24	10.83	10.73	10.66	10.47	10.3	12.67	10.3
12/31/1979	9.8	13.04	13.17	12.35	11.76	11.35	10.89	10.73	10.63	10.52	10.36	13.17	9.8
01/31/1980	11.9	13.2	13.23	12.68	12.21	11.87	11.51	11.44	11.43	11.45	11.38	13.23	11.38
02/29/1980	14.53	15.28	15.64	15.61	15.35	14.85	14.13	13.76	13.44	12.92	12.6	15.64	12.6
03/31/1980	16.27	16.63	16.99	16.54	15.73	14.99	14.05	13.57	13.23	12.95	12.73	16.99	12.73
04/30/1980	9.56	11.32	11.56	11.33	11.01	10.85	10.75	10.79	10.88	11.07	11.02	11.56	9.56
05/30/1980	7.72	8.32	8.58	8.86	9.14	9.33	9.59	9.84	10.11	10.53	10.6	10.6	7.72
06/30/1980	6.4	8.38	8.52	8.64	9.03	9.24	9.48	9.69	9.93	10.33	10.29	10.33	6.4
07/31/1980	7.78	9.19	9.22	9.32	9.7	9.92	10.18	10.38	10.61	11.06	11.01	11.06	7.78
08/29/1980	9.69	10.81	11.27	11.53	11.71	11.8	11.87	11.87	11.85	11.8	11.63	11.87	9.69
09/30/1980	11.48	12.25	12.62	12.58	12.48	12.4	12.3	12.23	12.2	12.25	12.13	12.62	11.48
10/31/1980	12.12	13.93	14.09	13.93	13.57	13.4	13.22	13.05	12.92	12.81	12.66	14.09	12.12
11/28/1980	15.7	15.82	15.97	15.46	14.69	14.29	13.83	13.47	13.18	12.95	12.67	15.97	12.67
12/31/1980	13.56	15.95	15.88	14.56	13.67	13.33	13.03	12.87	12.75	12.61	12.32	15.95	12.32
01/30/1981	14.99	16.32	15.68	14.91	14.03	13.65	13.31	13.16	13.06	12.89	12.62	16.32	12.62
02/27/1981	15.02	15.79	15.62	15.01	14.46	14.28	14.13	14	13.86	13.61	13.34	15.79	13.34
03/31/1981	13.92	13.73	13.37	13.43	13.42	13.5	13.6	13.57	13.52	13.34	13.02	13.92	13.02
04/30/1981	14.82	16.48	16.04	15.73	15.34	15.15	14.95	14.8	14.65	14.36	14.08	16.48	14.08
05/29/1981	17.55	16.94	16.13	15.78	15.29	14.97	14.56	14.27	14.02	13.74	13.42	17.55	13.42
06/30/1981	15.52	15.7	15.72	15.36	15.11	14.93	14.69	14.54	14.38	14.04	13.69	15.72	13.69
07/31/1981	16.07	16.7	17.01	16.85	16.45	16.21	15.89	15.61	15.33	14.85	14.48	17.01	14.48
08/31/1981	16.13	17.25	17.81	17.55	17.3	17.04	16.69	16.44	16.19	15.75	15.42	17.81	15.42
09/30/1981	14.58	15.75	16.86	16.87	17.08	17.05	16.89	16.69	16.5	16.23	15.86	17.08	14.58

# ESTIMATED ANNUITY YIELDS (in %)

Fully Taxable, Curve Type: pwcf, Principal Adj: 10%, 06-JUL-24

Quote Date	0.0833YR	0.25YR	0.5YR	1.0YR	2.0YR	3.0YR	5.0YR	7.0YR	10.0YR	20.0YR	30.0YR	Max	Min
10/30/1981	13.6	14.08	14.78	14.92	14.99	15.06	15.16	15.22	15.24	15.1	14.88	15.24	13.6
11/30/1981	10.79	11.07	11.55	11.83	12.34	12.66	12.99	13.17	13.29	13.31	13.17	13.31	10.79
12/31/1981	9.92	12.16	13.35	13.86	14.19	14.32	14.43	14.48	14.5	14.43	14.17	14.5	9.92
01/29/1982	12.79	13.72	14.25	14.52	14.64	14.68	14.71	14.7	14.68	14.61	14.38	14.71	12.79
02/26/1982	12.64	13.63	14.36	14.5	14.63	14.65	14.6	14.52	14.46	14.48	14.3	14.65	12.64
03/31/1982	14.47	14.65	14.73	14.74	14.84	14.85	14.82	14.77	14.69	14.39	14.13	14.85	14.13
04/30/1982	13.04	13.58	13.89	14.09	14.29	14.31	14.28	14.28	14.23	13.94	13.79	14.31	13.04
05/28/1982	12.14	12.57	12.87	13.3	13.69	13.86	14.03	14.1	14.11	13.91	13.78	14.11	12.14
06/30/1982	12.31	14.05	14.71	14.92	15.07	15.11	15.11	15.08	14.99	14.6	14.38	15.11	12.31
07/30/1982	9.34	11.05	12.39	12.96	13.4	13.63	13.87	13.98	14.03	13.87	13.77	14.03	9.34
08/31/1982	6.43	8.56	10.19	11.19	11.97	12.36	12.74	12.91	12.98	12.81	12.76	12.98	6.43
09/30/1982	7.25	7.94	9.62	10.33	11.2	11.59	11.93	12.09	12.17	12.05	11.94	12.17	7.25
10/29/1982	8.03	8.39	9.05	9.41	10.02	10.38	10.77	10.96	11.07	11.02	10.87	11.07	8.03
11/30/1982	7.95	8.74	9.17	9.43	9.91	10.26	10.69	10.96	11.15	11.19	11.13	11.19	7.95
12/31/1982	8.46	8.47	8.66	8.93	9.47	9.83	10.28	10.59	10.82	10.89	10.86	10.89	8.46
01/31/1983	8.37	8.59	8.82	9.06	9.59	9.96	10.45	10.82	11.12	11.31	11.4	11.4	8.37
02/28/1983	7.71	8.42	8.5	8.71	9.25	9.6	10.02	10.31	10.56	10.79	10.84	10.84	7.71
03/31/1983	8.93	9.24	9.37	9.46	9.85	10.11	10.44	10.69	10.9	11.05	11.04	11.05	8.93
04/29/1983	8.34	8.62	8.72	8.86	9.31	9.61	9.99	10.28	10.52	10.68	10.6	10.68	8.34
05/31/1983	8.42	9.24	9.39	9.5	9.94	10.23	10.58	10.84	11.05	11.25	11.29	11.29	8.42
06/30/1983	8.91	9.39	9.6	9.82	10.23	10.5	10.83	11.06	11.25	11.38	11.36	11.38	8.91
07/29/1983	9.23	9.88	10.21	10.53	10.98	11.29	11.66	11.9	12.08	12.18	12.19	12.19	9.23
08/31/1983	8.84	9.89	10.3	10.61	11.09	11.42	11.81	12.03	12.19	12.3	12.29	12.3	8.84
09/30/1983	9.1	9.3	9.62	9.88	10.4	10.75	11.18	11.44	11.64	11.76	11.73	11.76	9.1
10/31/1983	8.81	9.08	9.48	9.77	10.39	10.8	11.3	11.59	11.83	12.06	12.07	12.07	8.81
11/30/1983	8.88	9.42	9.75	9.96	10.48	10.86	11.31	11.56	11.76	11.93	11.92	11.93	8.88
12/30/1983	8.98	9.6	9.93	10.16	10.7	11.07	11.51	11.77	11.97	12.16	12.16	12.16	8.98
01/31/1984	9.31	9.51	9.7	9.89	10.44	10.81	11.26	11.54	11.77	11.97	12.02	12.02	9.31
02/29/1984	8.93	9.81	10.14	10.32	10.86	11.24	11.68	11.96	12.18	12.37	12.45	12.45	8.93
03/30/1984	9.95	10.46	10.76	10.98	11.5	11.85	12.26	12.52	12.72	12.83	12.87	12.87	9.95
04/30/1984	9.71	10.48	10.81	11.1	11.69	12.08	12.53	12.8	13.01	13.14	13.18	13.18	9.71
05/31/1984	8.73	10.58	11.56	12.2	12.89	13.3	13.77	14.03	14.21	14.25	14.25	14.25	8.73
06/29/1984	9.58	10.64	11.51	12.26	13.05	13.44	13.84	14.05	14.19	14.2	14.18	14.2	9.58
07/31/1984	10.23	11.2	11.54	12.01	12.58	12.82	13.03	13.16	13.25	13.3	13.27	13.3	10.23

# ESTIMATED ANNUITY YIELDS (in %)

Fully Taxable, Curve Type: pwcf, Principal Adj: 10%, 06-JUL-24

Quote Date	0.0833YR	0.25YR	0.5YR	1.0YR	2.0YR	3.0YR	5.0YR	7.0YR	10.0YR	20.0YR	30.0YR	Max	Min
08/31/1984	10.66	11.45	11.77	12.1	12.58	12.79	13	13.11	13.17	13.12	13.08	13.17	10.66
09/28/1984	10.94	11.01	11.35	11.58	12.07	12.34	12.61	12.74	12.8	12.75	12.72	12.8	10.94
10/31/1984	8.96	9.71	10.09	10.46	11.05	11.36	11.69	11.86	11.98	12.04	12.01	12.04	8.96
11/30/1984	7.73	9.01	9.34	9.68	10.33	10.77	11.26	11.54	11.76	11.95	11.95	11.95	7.73
12/31/1984	7.9	8.28	8.74	9.23	9.92	10.41	11.01	11.37	11.67	11.92	11.91	11.92	7.9
01/31/1985	7.81	8.49	8.75	9.08	9.75	10.21	10.74	11.03	11.27	11.57	11.58	11.58	7.81
02/28/1985	7.77	9.13	9.51	9.86	10.5	10.96	11.51	11.82	12.08	12.36	12.39	12.39	7.77
03/29/1985	8.19	8.74	9.28	9.64	10.3	10.76	11.29	11.59	11.84	12.13	12.11	12.13	8.19
04/30/1985	7.65	8.35	8.75	9.12	9.83	10.31	10.88	11.23	11.55	11.94	11.97	11.97	7.65
05/31/1985	6.87	7.58	7.72	8.08	8.75	9.21	9.75	10.06	10.36	10.85	10.91	10.91	6.87
06/28/1985	6.78	7.24	7.5	7.79	8.48	9	9.63	10	10.34	10.8	10.82	10.82	6.78
07/31/1985	7.24	7.72	7.87	8.2	8.85	9.35	9.97	10.33	10.67	11.14	11.13	11.14	7.24
08/30/1985	7.2	7.48	7.79	8.04	8.67	9.15	9.74	10.07	10.37	10.87	10.9	10.9	7.2
09/30/1985	7.33	7.5	7.73	8.07	8.67	9.13	9.71	10.05	10.38	10.96	11	11	7.33
10/31/1985	7.42	7.62	7.76	8.03	8.54	8.95	9.46	9.78	10.09	10.64	10.67	10.67	7.42
11/29/1985	6.87	7.6	7.76	7.94	8.33	8.68	9.14	9.42	9.71	10.19	10.24	10.24	6.87
12/31/1985	6.19	7.42	7.57	7.73	7.98	8.25	8.6	8.82	9.06	9.6	9.65	9.65	6.19
01/31/1986	6.76	7.39	7.54	7.72	8	8.27	8.62	8.87	9.14	9.69	9.73	9.73	6.76
02/28/1986	7	7.46	7.5	7.57	7.78	7.94	8.13	8.21	8.3	8.59	8.63	8.63	7
03/31/1986	6.49	6.7	6.68	6.87	7.05	7.21	7.41	7.49	7.57	7.78	7.81	7.81	6.49
04/30/1986	5.77	6.41	6.47	6.63	6.93	7.14	7.38	7.49	7.6	7.88	7.92	7.92	5.77
05/30/1986	6.2	6.61	6.77	6.94	7.32	7.66	8.05	8.18	8.31	8.64	8.54	8.64	6.2
06/30/1986	6.06	6.3	6.36	6.53	6.86	7.14	7.46	7.58	7.7	8.02	7.99	8.02	6.06

# ESTIMATED ANNUITY YIELDS (in %)

Fully Taxable, Curve Type: pwcf, Principal Adj: 0%, 06-JUL-24

Quote Date	0.0833YR	0.25YR	0.5YR	1.0YR	2.0YR	3.0YR	5.0YR	7.0YR	10.0YR	20.0YR	30.0YR	Max	Min
07/31/1986	5.31	6.06	6.12	6.29	6.6	6.87	7.22	7.4	7.62	8.14	8.15	8.15	5.31
08/29/1986	4.9	5.35	5.39	5.56	5.89	6.17	6.55	6.79	7.06	7.65	7.73	7.73	4.9
09/30/1986	5.26	5.4	5.64	5.84	6.28	6.63	7.07	7.32	7.6	8.22	8.26	8.26	5.26
10/31/1986	5.27	5.44	5.52	5.75	6.11	6.41	6.8	7.07	7.37	8.02	8.09	8.09	5.27
11/28/1986	5.22	5.65	5.73	5.83	6.1	6.34	6.67	6.92	7.2	7.83	7.93	7.93	5.22
12/31/1986	4.95	5.97	5.95	6.08	6.36	6.56	6.83	7.04	7.29	7.9	8.02	8.02	4.95
01/30/1987	5.6	5.87	5.88	6	6.24	6.44	6.71	6.93	7.18	7.79	7.91	7.91	5.6
02/27/1987	5.45	5.73	5.79	6	6.28	6.48	6.73	6.93	7.16	7.7	7.82	7.82	5.45
03/31/1987	5.34	5.8	6.01	6.22	6.52	6.73	6.99	7.21	7.46	7.98	8.09	8.09	5.34
04/30/1987	3.78	5.78	6.21	6.74	7.25	7.53	7.85	8.04	8.25	8.66	8.72	8.72	3.78
05/29/1987	5.38	5.92	6.44	6.97	7.55	7.84	8.14	8.33	8.52	8.89	8.92	8.92	5.38
06/30/1987	5.15	5.96	6.3	6.76	7.28	7.59	7.95	8.17	8.4	8.83	8.87	8.87	5.15
07/31/1987	5.31	6.34	6.59	6.87	7.37	7.7	8.09	8.35	8.61	9.1	9.17	9.17	5.31
08/31/1987	5.82	6.53	6.76	7.18	7.73	8.05	8.42	8.68	8.94	9.39	9.45	9.45	5.82
09/30/1987	6.66	6.87	7.45	7.87	8.43	8.76	9.15	9.4	9.64	10.05	10.1	10.1	6.66
10/30/1987	4.46	5.5	6.48	6.95	7.54	7.9	8.33	8.63	8.91	9.29	9.34	9.34	4.46
11/30/1987	3.58	5.61	6.59	7.05	7.6	7.94	8.36	8.67	8.97	9.39	9.43	9.43	3.58
12/31/1987	3.6	5.93	6.62	7.15	7.65	7.94	8.3	8.56	8.82	9.2	9.23	9.23	3.6
01/29/1988	4.69	5.93	6.42	6.77	7.15	7.38	7.69	7.94	8.2	8.62	8.66	8.66	4.69
02/29/1988	5.31	5.9	6.2	6.59	7.01	7.25	7.55	7.8	8.08	8.56	8.62	8.62	5.31
03/31/1988	5.49	5.99	6.38	6.81	7.26	7.55	7.91	8.2	8.5	9	9.06	9.06	5.49
04/29/1988	5.74	6.28	6.69	7.12	7.57	7.85	8.21	8.48	8.77	9.28	9.35	9.35	5.74
05/31/1988	6.04	6.85	7.26	7.67	8.11	8.36	8.67	8.91	9.16	9.58	9.64	9.64	6.04
06/30/1988	6.52	6.91	7.17	7.54	7.94	8.14	8.39	8.59	8.8	9.19	9.25	9.25	6.52
07/29/1988	6.27	7.27	7.59	7.96	8.36	8.54	8.74	8.93	9.13	9.5	9.57	9.57	6.27
08/31/1988	7.61	7.74	8.05	8.4	8.72	8.86	9.02	9.16	9.3	9.58	9.62	9.62	7.61
09/30/1988	7.34	7.69	8.02	8.27	8.49	8.6	8.72	8.83	8.95	9.23	9.28	9.28	7.34
10/31/1988	7.06	7.78	8.02	8.18	8.33	8.39	8.48	8.58	8.71	8.98	9.01	9.01	7.06
11/30/1988	6.83	8.38	8.59	8.82	8.99	9.04	9.09	9.15	9.22	9.37	9.37	9.37	6.83
12/30/1988	6.49	8.65	8.93	9.2	9.32	9.36	9.38	9.4	9.4	9.38	9.32	9.4	6.49
01/31/1989	8.13	8.93	9.05	9.23	9.3	9.31	9.3	9.28	9.26	9.21	9.14	9.31	8.13
02/28/1989	7.81	9.3	9.41	9.69	9.77	9.77	9.74	9.7	9.65	9.57	9.5	9.77	7.81
03/31/1989	9.13	9.55	9.72	9.98	10.01	9.98	9.9	9.79	9.68	9.54	9.46	10.01	9.13
04/28/1989	8.89	9	9.17	9.4	9.44	9.42	9.38	9.34	9.31	9.29	9.24	9.44	8.89
05/31/1989	8.72	9.19	9.09	9.17	9.07	9.03	8.99	8.94	8.9	8.92	8.89	9.19	8.72



# ESTIMATED ANNUITY YIELDS (in %)

Fully Taxable, Curve Type: pwcf, Principal Adj: 0%, 06-JUL-24

Quote Date	0.0833YR	0.25YR	0.5YR	1.0YR	2.0YR	3.0YR	5.0YR	7.0YR	10.0YR	20.0YR	30.0YR	Max	Min
06/30/1989	8.59	8.52	8.33	8.44	8.32	8.28	8.28	8.29	8.32	8.37	8.32	8.59	8.28
07/31/1989	8.16	8.27	7.92	7.95	7.79	7.75	7.75	7.81	7.9	8.13	8.13	8.27	7.75
08/31/1989	8.04	8.38	8.38	8.54	8.54	8.54	8.53	8.51	8.5	8.54	8.5	8.54	8.04
09/29/1989	7.98	8.42	8.53	8.69	8.64	8.63	8.62	8.6	8.58	8.61	8.56	8.69	7.98
10/31/1989	8	8.23	8.11	8.13	8.06	8.06	8.09	8.11	8.13	8.21	8.18	8.23	8
11/30/1989	6.69	8.1	7.95	7.96	7.92	7.93	7.97	8	8.04	8.18	8.16	8.18	6.69
12/29/1989	6.3	8.13	8.03	8.06	8.07	8.08	8.1	8.13	8.18	8.29	8.25	8.29	6.3
01/31/1990	7.45	8.28	8.24	8.34	8.44	8.49	8.56	8.59	8.64	8.8	8.76	8.8	7.45
02/28/1990	7.72	8.26	8.28	8.33	8.5	8.59	8.67	8.71	8.76	8.9	8.86	8.9	7.72
03/30/1990	8.37	8.33	8.4	8.54	8.74	8.83	8.89	8.89	8.91	9.01	8.97	9.01	8.33
04/30/1990	7.81	8.35	8.56	8.78	9.03	9.14	9.23	9.26	9.29	9.39	9.35	9.39	7.81
05/31/1990	6.99	8.27	8.27	8.37	8.55	8.65	8.74	8.79	8.83	8.95	8.9	8.95	6.99
06/29/1990	7.76	8.26	8.18	8.24	8.34	8.42	8.52	8.58	8.64	8.76	8.72	8.76	7.76
07/31/1990	7.76	7.98	7.85	7.92	8.02	8.11	8.23	8.34	8.46	8.69	8.68	8.69	7.76
08/31/1990	7.73	7.85	7.88	8.01	8.17	8.33	8.56	8.72	8.91	9.27	9.27	9.27	7.73
09/28/1990	7.28	7.58	7.72	7.9	8.07	8.23	8.47	8.65	8.84	9.2	9.21	9.21	7.28
10/31/1990	6.85	7.53	7.55	7.64	7.81	7.97	8.22	8.42	8.63	9.02	9.04	9.04	6.85
11/30/1990	7	7.46	7.5	7.53	7.64	7.76	7.95	8.12	8.3	8.63	8.64	8.64	7
12/31/1990	5.61	6.85	6.87	7.03	7.23	7.41	7.67	7.87	8.09	8.48	8.5	8.5	5.61
01/31/1991	5.69	6.52	6.54	6.71	7	7.23	7.54	7.77	8	8.42	8.44	8.44	5.69
02/28/1991	5.7	6.4	6.39	6.56	6.92	7.19	7.52	7.76	8.01	8.44	8.46	8.46	5.7
03/28/1991	6.04	6.08	6.16	6.41	6.87	7.2	7.59	7.84	8.08	8.48	8.51	8.51	6.04
04/30/1991	5.59	5.8	5.88	6.18	6.67	7.01	7.43	7.72	8	8.41	8.44	8.44	5.59
05/31/1991	4.93	5.79	5.93	6.22	6.64	6.98	7.43	7.73	8.02	8.47	8.51	8.51	4.93
06/28/1991	5.3	5.8	6	6.35	6.77	7.15	7.65	7.95	8.23	8.63	8.68	8.68	5.3
07/31/1991	5.67	5.79	5.95	6.2	6.62	6.99	7.48	7.8	8.1	8.53	8.59	8.59	5.67
08/30/1991	5.44	5.58	5.65	5.8	6.15	6.51	7.02	7.38	7.72	8.19	8.27	8.27	5.44
09/30/1991	5.12	5.36	5.39	5.51	5.85	6.19	6.67	7.01	7.35	7.9	8	8	5.12
10/31/1991	4.84	5.03	5.06	5.17	5.52	5.88	6.42	6.83	7.24	7.9	8.04	8.04	4.84
11/29/1991	4.08	4.54	4.61	4.76	5.16	5.57	6.18	6.65	7.12	7.87	8.06	8.06	4.08
12/31/1991	3.83	3.98	3.99	4.15	4.53	4.96	5.58	6.03	6.49	7.29	7.51	7.51	3.83
01/31/1992	3.63	3.99	4.05	4.28	4.82	5.34	6.05	6.56	7.04	7.77	7.92	7.92	3.63
02/28/1992	3.84	4.07	4.15	4.36	4.92	5.45	6.17	6.63	7.08	7.77	7.93	7.93	3.84
03/31/1992	4.09	4.18	4.32	4.55	5.23	5.81	6.54	6.98	7.38	7.99	8.11	8.11	4.09

# ESTIMATED ANNUITY YIELDS (in %)

Fully Taxable, Curve Type: pwcf, Principal Adj: 0%, 06-JUL-24

Quote Date	0.0833YR	0.25YR	0.5YR	1.0YR	2.0YR	3.0YR	5.0YR	7.0YR	10.0YR	20.0YR	30.0YR	Max	Min
04/30/1992	3.42	3.82	3.97	4.25	4.97	5.58	6.38	6.88	7.35	8.04	8.19	8.19	3.42
05/29/1992	3.56	3.81	3.95	4.16	4.77	5.33	6.08	6.58	7.06	7.82	7.97	7.97	3.56
06/30/1992	3.58	3.69	3.82	4	4.5	5.02	5.76	6.28	6.81	7.67	7.89	7.89	3.58
07/31/1992	3.09	3.28	3.38	3.58	4.07	4.58	5.3	5.83	6.36	7.25	7.51	7.51	3.09
08/31/1992	3.08	3.24	3.34	3.44	3.84	4.33	5.07	5.64	6.23	7.23	7.51	7.51	3.08
09/30/1992	2.66	2.79	2.94	3.06	3.49	3.98	4.73	5.33	5.97	7.06	7.4	7.4	2.66
10/30/1992	2.71	3.05	3.29	3.53	4.09	4.62	5.37	5.92	6.47	7.41	7.69	7.69	2.71
11/30/1992	2.71	3.36	3.58	3.81	4.44	5	5.74	6.22	6.7	7.48	7.7	7.7	2.71
12/31/1992	2.88	3.18	3.39	3.57	4.16	4.72	5.49	5.99	6.47	7.26	7.49	7.49	2.88
01/29/1993	2.73	2.99	3.16	3.37	3.88	4.36	5.04	5.55	6.08	6.98	7.27	7.27	2.73
02/26/1993	2.77	3.03	3.14	3.29	3.66	4.08	4.72	5.22	5.74	6.65	6.97	6.97	2.77
03/31/1993	2.81	2.96	3.11	3.29	3.68	4.11	4.75	5.24	5.76	6.7	7.02	7.02	2.81
04/30/1993	2.85	2.99	3.08	3.22	3.56	3.98	4.62	5.14	5.69	6.65	6.99	6.99	2.85
05/28/1993	2.98	3.16	3.31	3.55	3.95	4.33	4.9	5.35	5.84	6.71	7.02	7.02	2.98
06/30/1993	2.85	3.13	3.25	3.44	3.79	4.13	4.64	5.04	5.47	6.31	6.66	6.66	2.85
07/30/1993	2.89	3.12	3.26	3.48	3.87	4.23	4.74	5.13	5.53	6.27	6.56	6.56	2.89
08/31/1993	2.9	3.08	3.21	3.35	3.66	3.95	4.4	4.78	5.19	5.93	6.22	6.22	2.9
09/30/1993	2.64	3.02	3.16	3.34	3.67	3.98	4.43	4.78	5.16	5.93	6.23	6.23	2.64
10/29/1993	2.84	3.14	3.27	3.44	3.78	4.07	4.5	4.84	5.2	5.93	6.21	6.21	2.84
11/30/1993	2.83	3.21	3.4	3.56	3.95	4.29	4.78	5.16	5.56	6.29	6.52	6.52	2.83
12/31/1993	2.94	3.11	3.32	3.57	3.97	4.32	4.81	5.18	5.57	6.3	6.55	6.55	2.94
01/31/1994	2.78	3.05	3.23	3.43	3.84	4.18	4.64	5	5.38	6.08	6.36	6.36	2.78
02/28/1994	2.95	3.47	3.7	3.96	4.42	4.77	5.24	5.6	5.97	6.63	6.85	6.85	2.95
03/31/1994	3.41	3.61	3.97	4.37	4.93	5.34	5.88	6.25	6.62	7.21	7.34	7.34	3.41
04/29/1994	3.55	3.99	4.45	4.89	5.46	5.85	6.34	6.64	6.94	7.46	7.54	7.54	3.55
05/31/1994	3.86	4.29	4.87	5.21	5.75	6.1	6.52	6.8	7.07	7.58	7.68	7.68	3.86
06/30/1994	3.55	4.34	4.92	5.33	5.89	6.26	6.7	6.98	7.26	7.76	7.84	7.84	3.55
07/29/1994	3.99	4.42	4.88	5.26	5.76	6.08	6.47	6.75	7.02	7.49	7.56	7.56	3.99
08/31/1994	4.36	4.7	5.05	5.4	5.89	6.21	6.58	6.83	7.1	7.6	7.7	7.7	4.36
09/30/1994	4.52	4.87	5.5	5.84	6.35	6.68	7.08	7.32	7.57	8.03	8.1	8.1	4.52
10/31/1994	4.43	5.24	5.71	6.05	6.57	6.9	7.29	7.52	7.76	8.17	8.22	8.22	4.43
11/30/1994	4.8	5.76	6.28	6.74	7.24	7.5	7.75	7.87	7.98	8.22	8.23	8.23	4.8
12/30/1994	4.46	5.85	6.65	7.15	7.6	7.78	7.92	7.96	8	8.13	8.13	8.13	4.46
01/31/1995	5.3	6.09	6.47	6.81	7.17	7.36	7.55	7.64	7.73	7.92	7.93	7.93	5.3

# ESTIMATED ANNUITY YIELDS (in %)

Fully Taxable, Curve Type: pwcf, Principal Adj: 0%, 06-JUL-24

Quote Date	0.0833YR	0.25YR	0.5YR	1.0YR	2.0YR	3.0YR	5.0YR	7.0YR	10.0YR	20.0YR	30.0YR	Max	Min
02/28/1995	5.23	6.02	6.23	6.44	6.71	6.87	7.06	7.18	7.3	7.59	7.67	7.67	5.23
03/31/1995	5.91	5.99	6.22	6.45	6.73	6.89	7.06	7.18	7.31	7.61	7.66	7.66	5.91
04/28/1995	5.82	5.96	6.13	6.31	6.54	6.68	6.86	6.97	7.12	7.47	7.54	7.54	5.82
05/31/1995	5.71	5.9	5.9	5.9	5.92	5.97	6.07	6.18	6.33	6.72	6.83	6.83	5.71
06/30/1995	5.46	5.72	5.71	5.76	5.85	5.91	6.01	6.1	6.25	6.65	6.76	6.76	5.46
07/31/1995	5.6	5.68	5.65	5.72	5.87	5.99	6.16	6.29	6.46	6.88	6.99	6.99	5.6
08/31/1995	5.42	5.53	5.63	5.69	5.82	5.92	6.06	6.18	6.33	6.72	6.82	6.82	5.42
09/29/1995	5.39	5.54	5.64	5.74	5.86	5.93	6.03	6.12	6.25	6.6	6.7	6.7	5.39
10/31/1995	5.12	5.57	5.59	5.62	5.67	5.73	5.83	5.93	6.05	6.39	6.49	6.49	5.12
11/30/1995	5.59	5.55	5.51	5.47	5.45	5.48	5.55	5.65	5.79	6.16	6.28	6.28	5.45
12/29/1995	4.67	5.18	5.24	5.25	5.25	5.29	5.39	5.48	5.61	5.97	6.08	6.08	4.67
01/31/1996	4.75	5.14	5.03	5.01	5.01	5.07	5.21	5.37	5.56	5.99	6.13	6.13	4.75
02/29/1996	4.95	5.09	5.09	5.21	5.38	5.5	5.69	5.86	6.08	6.53	6.66	6.66	4.95
03/29/1996	5.33	5.24	5.27	5.45	5.71	5.87	6.06	6.21	6.39	6.8	6.91	6.91	5.24
04/30/1996	4.98	5.17	5.34	5.59	5.92	6.12	6.35	6.51	6.69	7.07	7.14	7.14	4.98
05/31/1996	5.12	5.28	5.41	5.69	6.08	6.3	6.56	6.72	6.88	7.2	7.25	7.25	5.12
06/28/1996	4.88	5.31	5.44	5.71	6.03	6.21	6.42	6.57	6.73	7.05	7.11	7.11	4.88
07/31/1996	5.03	5.42	5.55	5.83	6.12	6.3	6.51	6.65	6.8	7.1	7.16	7.16	5.03
08/30/1996	5.16	5.34	5.54	5.82	6.19	6.41	6.65	6.81	6.96	7.28	7.35	7.35	5.16
09/30/1996	5.12	5.19	5.41	5.68	6	6.18	6.4	6.55	6.72	7.05	7.13	7.13	5.12
10/31/1996	5.01	5.24	5.33	5.48	5.68	5.83	6.03	6.17	6.34	6.69	6.79	6.79	5.01
11/29/1996	5.06	5.22	5.29	5.41	5.57	5.67	5.81	5.92	6.06	6.4	6.51	6.51	5.06
12/31/1996	5.02	5.19	5.37	5.56	5.82	5.97	6.17	6.3	6.44	6.73	6.81	6.81	5.02
01/31/1997	5.03	5.24	5.35	5.57	5.84	6.01	6.21	6.35	6.51	6.84	6.94	6.94	5.03
02/28/1997	5.09	5.29	5.41	5.66	5.97	6.16	6.36	6.48	6.61	6.91	7	7	5.09
03/31/1997	5.31	5.41	5.65	5.97	6.32	6.52	6.73	6.86	6.99	7.25	7.31	7.31	5.31
04/30/1997	5.04	5.36	5.66	5.89	6.19	6.36	6.55	6.68	6.81	7.07	7.14	7.14	5.04
05/30/1997	4.4	5.18	5.5	5.8	6.1	6.27	6.47	6.59	6.71	6.99	7.07	7.07	4.4
06/30/1997	5.17	5.31	5.36	5.68	5.98	6.16	6.35	6.46	6.58	6.85	6.93	6.93	5.17
07/31/1997	5.16	5.31	5.28	5.5	5.69	5.79	5.91	5.99	6.1	6.35	6.43	6.43	5.16
08/29/1997	4.82	5.3	5.44	5.67	5.91	6.05	6.22	6.32	6.43	6.69	6.76	6.76	4.82
09/30/1997	4.89	5.1	5.29	5.55	5.76	5.87	6.01	6.1	6.2	6.45	6.53	6.53	4.89
10/31/1997	5	5.35	5.33	5.51	5.66	5.73	5.81	5.88	5.97	6.2	6.27	6.27	5
11/28/1997	5.09	5.34	5.49	5.68	5.82	5.88	5.94	5.97	6.02	6.17	6.22	6.22	5.09

# ESTIMATED ANNUITY YIELDS (in %)

Fully Taxable, Curve Type: pwcf, Principal Adj: 0%, 06-JUL-24

Quote Date	0.0833YR	0.25YR	0.5YR	1.0YR	2.0YR	3.0YR	5.0YR	7.0YR	10.0YR	20.0YR	30.0YR	Max	Min
12/31/1997	4.89	5.41	5.51	5.61	5.7	5.75	5.79	5.83	5.87	6.02	6.07	6.07	4.89
01/30/1998	5.04	5.29	5.32	5.39	5.41	5.43	5.47	5.52	5.61	5.85	5.93	5.93	5.04
02/27/1998	5.04	5.36	5.42	5.52	5.6	5.63	5.68	5.71	5.77	5.98	6.05	6.05	5.04
03/31/1998	5.37	5.23	5.31	5.49	5.62	5.67	5.72	5.76	5.82	6.01	6.07	6.07	5.23
04/30/1998	4.75	5.09	5.33	5.49	5.61	5.67	5.72	5.77	5.83	6.03	6.09	6.09	4.75
05/29/1998	4.63	5.13	5.39	5.52	5.6	5.63	5.67	5.7	5.74	5.89	5.95	5.95	4.63
06/30/1998	4.87	5.12	5.35	5.5	5.56	5.58	5.61	5.63	5.66	5.74	5.78	5.78	4.87
07/31/1998	4.85	5.2	5.29	5.47	5.54	5.58	5.62	5.64	5.68	5.81	5.86	5.86	4.85
08/31/1998	4.79	4.97	5.04	5.09	5.01	4.99	5.01	5.06	5.14	5.37	5.43	5.43	4.79
09/30/1998	3.5	4.39	4.54	4.62	4.5	4.46	4.45	4.48	4.57	5.02	5.17	5.17	3.5
10/30/1998	3.57	4.49	4.4	4.44	4.39	4.4	4.47	4.55	4.69	5.22	5.37	5.37	3.57
11/30/1998	4.54	4.58	4.62	4.68	4.65	4.66	4.72	4.77	4.85	5.18	5.31	5.31	4.54
12/31/1998	4.42	4.5	4.6	4.66	4.67	4.7	4.75	4.77	4.86	5.27	5.38	5.38	4.42
01/29/1999	4.45	4.53	4.54	4.64	4.68	4.69	4.73	4.76	4.85	5.24	5.34	5.34	4.45
02/26/1999	4.27	4.73	4.76	4.99	5.15	5.25	5.37	5.43	5.52	5.83	5.87	5.87	4.27
03/31/1999	4.74	4.53	4.6	4.8	4.98	5.1	5.26	5.35	5.48	5.85	5.93	5.93	4.53
04/30/1999	4.57	4.63	4.68	4.84	5.05	5.17	5.31	5.39	5.51	5.88	5.94	5.94	4.57
05/28/1999	4.5	4.74	4.87	5.05	5.34	5.51	5.7	5.79	5.88	6.13	6.15	6.15	4.5
06/30/1999	4.36	4.81	4.99	5.14	5.43	5.59	5.77	5.87	5.98	6.27	6.28	6.28	4.36
07/30/1999	4.53	4.83	4.91	5.17	5.52	5.71	5.92	6.03	6.15	6.41	6.41	6.41	4.53
08/31/1999	4.6	4.99	5.18	5.39	5.67	5.83	6.02	6.13	6.24	6.49	6.48	6.49	4.6
09/30/1999	4.52	4.86	5	5.29	5.57	5.73	5.9	6.01	6.14	6.45	6.45	6.45	4.52
10/29/1999	4.46	5.19	5.27	5.51	5.77	5.92	6.08	6.17	6.27	6.53	6.52	6.53	4.46
11/30/1999	4.74	5.29	5.61	5.81	6.01	6.12	6.25	6.32	6.42	6.67	6.64	6.67	4.74
12/31/1999	5.12	5.42	5.78	6.03	6.24	6.37	6.51	6.59	6.68	6.88	6.84	6.88	5.12
01/31/2000	5.49	5.8	5.97	6.29	6.59	6.72	6.81	6.85	6.87	6.86	6.77	6.87	5.49
02/29/2000	5.5	5.86	6.08	6.31	6.54	6.66	6.76	6.78	6.78	6.65	6.51	6.78	5.5
03/31/2000	6.06	5.96	6.23	6.39	6.54	6.57	6.55	6.49	6.43	6.33	6.22	6.57	5.96
04/28/2000	5.47	5.99	6.21	6.5	6.71	6.75	6.74	6.69	6.63	6.47	6.36	6.75	5.47
05/31/2000	4.78	5.72	6.38	6.67	6.8	6.81	6.78	6.71	6.65	6.55	6.43	6.81	4.78
06/30/2000	5.71	5.99	6.31	6.47	6.53	6.51	6.47	6.43	6.38	6.35	6.28	6.53	5.71
07/31/2000	6.05	6.11	6.51	6.54	6.5	6.47	6.43	6.38	6.33	6.25	6.16	6.54	6.05
08/31/2000	6.26	6.45	6.45	6.47	6.37	6.31	6.23	6.16	6.1	6.05	5.98	6.47	5.98
09/29/2000	6.02	6.35	6.39	6.41	6.24	6.16	6.09	6.06	6.06	6.18	6.16	6.41	6.02

# ESTIMATED ANNUITY YIELDS (in %)

Fully Taxable, Curve Type: pwcf, Principal Adj: 0%, 06-JUL-24

Quote Date	0.0833YR	0.25YR	0.5YR	1.0YR	2.0YR	3.0YR	5.0YR	7.0YR	10.0YR	20.0YR	30.0YR	Max	Min
10/31/2000	6.21	6.45	6.45	6.45	6.23	6.13	6.04	6	5.99	6.07	6.05	6.45	5.99
11/30/2000	6.16	6.36	6.29	6.23	5.95	5.84	5.74	5.69	5.67	5.81	5.81	6.36	5.67
12/29/2000	5.89	6	5.81	5.69	5.44	5.34	5.29	5.27	5.3	5.55	5.61	6	5.27
01/31/2001	4.88	5.12	4.83	4.81	4.77	4.82	4.93	5.02	5.15	5.53	5.62	5.62	4.77
02/28/2001	4.96	4.91	4.74	4.66	4.58	4.64	4.76	4.85	4.99	5.38	5.5	5.5	4.58
03/30/2001	4.55	4.3	4.22	4.23	4.29	4.41	4.6	4.75	4.94	5.45	5.6	5.6	4.22
04/30/2001	3.81	3.94	3.98	4.05	4.27	4.5	4.81	5.03	5.28	5.8	5.93	5.93	3.81
05/31/2001	3.44	3.66	3.59	3.74	4.1	4.4	4.78	5.03	5.29	5.82	5.93	5.93	3.44
06/29/2001	3.41	3.69	3.66	3.84	4.17	4.46	4.84	5.08	5.34	5.84	5.93	5.93	3.41
07/31/2001	3.7	3.56	3.46	3.49	3.73	4.01	4.4	4.66	4.93	5.49	5.64	5.64	3.46
08/31/2001	3.44	3.4	3.31	3.34	3.56	3.84	4.22	4.48	4.75	5.31	5.46	5.46	3.31
09/28/2001	2.35	2.4	2.4	2.49	2.73	3.07	3.6	3.96	4.37	5.2	5.44	5.44	2.35
10/31/2001	2.17	2.04	1.93	1.94	2.21	2.6	3.17	3.56	3.98	4.79	4.99	4.99	1.93
11/30/2001	1.8	1.8	1.79	1.93	2.5	3.02	3.69	4.1	4.52	5.36	5.52	5.52	1.79
12/31/2001	1.65	1.71	1.78	1.89	2.62	3.22	3.96	4.39	4.81	5.58	5.72	5.72	1.65
01/31/2002	1.68	1.76	1.88	2.1	2.73	3.28	3.99	4.4	4.8	5.52	5.65	5.65	1.68
02/28/2002	1.76	1.76	1.84	2.03	2.64	3.16	3.83	4.25	4.66	5.42	5.58	5.58	1.76
03/28/2002	1.74	1.77	2.09	2.49	3.26	3.82	4.5	4.88	5.25	5.91	6.02	6.02	1.74
04/30/2002	1.77	1.75	1.87	2.08	2.79	3.35	4.05	4.46	4.85	5.56	5.72	5.72	1.75
05/31/2002	1.71	1.72	1.86	2.11	2.78	3.28	3.91	4.32	4.74	5.54	5.73	5.73	1.71
06/28/2002	1.68	1.69	1.75	1.88	2.48	2.98	3.62	4.04	4.49	5.38	5.61	5.61	1.68
07/31/2002	1.72	1.7	1.69	1.65	1.98	2.41	3.05	3.52	4.04	5.08	5.36	5.36	1.65
08/30/2002	1.68	1.67	1.66	1.67	1.92	2.26	2.79	3.23	3.72	4.72	4.99	4.99	1.66
09/30/2002	1.58	1.57	1.51	1.44	1.59	1.84	2.27	2.68	3.18	4.33	4.67	4.67	1.44
10/31/2002	1.47	1.45	1.42	1.35	1.55	1.86	2.38	2.84	3.4	4.61	4.98	4.98	1.35
11/29/2002	1.24	1.21	1.29	1.39	1.83	2.25	2.84	3.29	3.79	4.82	5.1	5.1	1.21
12/31/2002	1.14	1.18	1.21	1.18	1.41	1.75	2.3	2.76	3.3	4.44	4.78	4.78	1.14
01/31/2003	1.16	1.16	1.19	1.24	1.49	1.87	2.47	2.95	3.47	4.55	4.85	4.85	1.16
02/28/2003	1.2	1.21	1.2	1.21	1.35	1.66	2.19	2.65	3.17	4.28	4.63	4.63	1.2
03/31/2003	1.15	1.11	1.12	1.13	1.32	1.66	2.24	2.72	3.27	4.41	4.77	4.77	1.11
04/30/2003	1.11	1.11	1.14	1.13	1.31	1.66	2.25	2.75	3.29	4.38	4.72	4.72	1.11
05/30/2003	1.14	1.11	1.1	1.15	1.23	1.44	1.86	2.29	2.81	3.92	4.29	4.29	1.1
06/30/2003	0.8	0.87	0.96	1.01	1.15	1.43	1.93	2.4	2.94	4.06	4.45	4.45	0.8
07/31/2003	0.88	1.05	0.68	1.07	1.45	1.9	2.61	3.18	3.8	4.97	5.31	5.31	0.68

# ESTIMATED ANNUITY YIELDS (in %)

Fully Taxable, Curve Type: pwcf, Principal Adj: 0%, 06-JUL-24

Quote Date	0.0833YR	0.25YR	0.5YR	1.0YR	2.0YR	3.0YR	5.0YR	7.0YR	10.0YR	20.0YR	30.0YR	Max	Min
08/29/2003	0.98	0.99	1.06	1.23	1.63	2.1	2.81	3.33	3.89	4.96	5.23	5.23	0.98
09/30/2003	0.85	0.91	1	1.03	1.23	1.6	2.22	2.73	3.31	4.46	4.81	4.81	0.85
10/31/2003	0.95	0.93	1.03	1.2	1.54	1.97	2.63	3.14	3.7	4.79	5.1	5.1	0.93
11/28/2003	0.93	0.91	1.02	1.31	1.73	2.15	2.78	3.24	3.76	4.81	5.1	5.1	0.91
12/31/2003	0.87	0.88	0.98	1.14	1.51	1.95	2.6	3.1	3.65	4.72	5.02	5.02	0.87
01/30/2004	0.83	0.9	0.99	1.15	1.51	1.93	2.56	3.04	3.57	4.61	4.91	4.91	0.83
02/27/2004	0.94	0.94	1	1.07	1.37	1.76	2.36	2.84	3.37	4.44	4.76	4.76	0.94
03/31/2004	0.95	0.92	0.99	1.07	1.34	1.68	2.24	2.71	3.24	4.34	4.68	4.68	0.92
04/30/2004	0.81	0.95	1.15	1.46	1.97	2.43	3.07	3.53	4.02	4.99	5.25	5.25	0.81
05/28/2004	0.92	1.06	1.36	1.67	2.19	2.65	3.28	3.72	4.19	5.1	5.32	5.32	0.92
06/30/2004	1.13	1.24	1.66	1.88	2.36	2.76	3.31	3.71	4.15	5.03	5.26	5.26	1.13
07/30/2004	1.27	1.42	1.72	1.94	2.37	2.75	3.26	3.64	4.06	4.94	5.17	5.17	1.27
08/31/2004	1.45	1.58	1.77	1.86	2.13	2.44	2.91	3.26	3.68	4.6	4.86	4.86	1.45
09/30/2004	1.47	1.68	1.99	2.12	2.39	2.66	3.04	3.36	3.73	4.59	4.83	4.83	1.47
10/29/2004	1.75	1.92	2.14	2.19	2.39	2.62	2.97	3.28	3.65	4.49	4.73	4.73	1.75
11/30/2004	2.03	2.22	2.37	2.56	2.83	3.07	3.41	3.69	4.02	4.77	4.97	4.97	2.03
12/31/2004	1.9	2.27	2.6	2.71	2.92	3.11	3.39	3.63	3.92	4.62	4.79	4.79	1.9
01/31/2005	2.13	2.47	2.75	2.9	3.13	3.3	3.52	3.7	3.92	4.47	4.58	4.58	2.13
02/28/2005	2.53	2.76	2.99	3.18	3.45	3.63	3.86	4.02	4.21	4.67	4.74	4.74	2.53
03/31/2005	2.64	2.81	3.15	3.31	3.62	3.81	4.03	4.17	4.35	4.77	4.79	4.79	2.64
04/29/2005	2.73	2.94	3.19	3.33	3.54	3.66	3.8	3.91	4.06	4.49	4.53	4.53	2.73
05/31/2005	2.79	3	3.12	3.31	3.49	3.58	3.68	3.75	3.87	4.26	4.32	4.32	2.79
06/30/2005	3.01	3.16	3.32	3.46	3.58	3.63	3.69	3.75	3.84	4.17	4.19	4.19	3.01
07/29/2005	3.28	3.43	3.65	3.84	3.96	4.03	4.12	4.16	4.24	4.51	4.5	4.51	3.28
08/31/2005	3.43	3.52	3.72	3.78	3.82	3.84	3.87	3.91	3.98	4.25	4.26	4.26	3.43
09/30/2005	3.21	3.55	3.99	4.11	4.17	4.2	4.23	4.26	4.32	4.58	4.58	4.58	3.21
10/31/2005	3.77	3.96	4.23	4.36	4.4	4.44	4.48	4.51	4.57	4.81	4.78	4.81	3.77
11/30/2005	3.97	3.95	4.32	4.44	4.45	4.45	4.46	4.48	4.54	4.77	4.71	4.77	3.95
12/30/2005	4.04	4.14	4.41	4.46	4.45	4.44	4.42	4.42	4.44	4.61	4.55	4.61	4.04
01/31/2006	4.39	4.52	4.61	4.64	4.59	4.57	4.55	4.55	4.57	4.73	4.7	4.73	4.39
02/28/2006	4.52	4.68	4.79	4.79	4.76	4.73	4.7	4.68	4.67	4.74	4.69	4.79	4.52
03/31/2006	4.72	4.68	4.87	4.92	4.9	4.89	4.89	4.89	4.92	5.08	5.06	5.08	4.68
04/28/2006	4.7	4.86	4.98	4.99	4.95	4.94	4.96	4.99	5.06	5.3	5.31	5.31	4.7
05/31/2006	4.84	4.93	5.12	5.2	5.14	5.11	5.1	5.11	5.16	5.37	5.37	5.37	4.84

# ESTIMATED ANNUITY YIELDS (in %)

Fully Taxable, Curve Type: pwcf, Principal Adj: 0%, 06-JUL-24

Quote Date	0.0833YR	0.25YR	0.5YR	1.0YR	2.0YR	3.0YR	5.0YR	7.0YR	10.0YR	20.0YR	30.0YR	Max	Min
06/30/2006	3.25	5.27	5.2	5.34	5.28	5.24	5.2	5.18	5.2	5.35	5.33	5.35	3.25
07/31/2006	5.16	5.19	5.21	5.2	5.08	5.03	4.99	4.98	5.01	5.18	5.18	5.21	4.98
08/31/2006	5.19	5.12	5.17	5.11	4.93	4.84	4.78	4.76	4.78	4.95	4.96	5.19	4.76
09/29/2006	4.71	4.95	5.07	5.03	4.84	4.75	4.68	4.66	4.67	4.84	4.85	5.07	4.66
10/31/2006	5.29	5.16	5.18	5.05	4.85	4.75	4.66	4.64	4.65	4.81	4.81	5.29	4.64
11/30/2006	5.24	5.11	5.16	5.01	4.78	4.66	4.56	4.51	4.52	4.66	4.66	5.24	4.51
12/29/2006	4.86	5.11	5.14	5.11	4.95	4.87	4.79	4.76	4.77	4.91	4.91	5.14	4.76
01/31/2007	5.09	5.21	5.2	5.14	5.03	4.97	4.9	4.87	4.88	5.01	5.01	5.21	4.87
02/28/2007	5.33	5.23	5.15	5.02	4.82	4.72	4.63	4.6	4.62	4.79	4.79	5.33	4.6
03/30/2007	5.18	5.12	5.12	5.03	4.8	4.7	4.62	4.62	4.67	4.9	4.93	5.18	4.62
04/30/2007	4.87	4.97	5.07	5.03	4.8	4.68	4.6	4.59	4.64	4.86	4.89	5.07	4.59
05/31/2007	4.85	4.81	4.93	5.07	5.02	4.97	4.93	4.92	4.94	5.11	5.11	5.11	4.81
06/29/2007	4.49	4.88	4.98	5.04	4.98	4.96	4.96	4.99	5.05	5.23	5.22	5.23	4.49
07/31/2007	5.22	4.99	5	4.89	4.69	4.62	4.6	4.65	4.74	4.98	4.99	5.22	4.6
08/31/2007	4.25	4.17	4.26	4.38	4.29	4.26	4.27	4.35	4.48	4.82	4.88	4.88	4.17
09/28/2007	3.46	3.83	4.13	4.12	4.05	4.07	4.16	4.29	4.46	4.85	4.89	4.89	3.46
10/31/2007	4.05	3.94	4.08	4.12	4.02	4.02	4.09	4.2	4.36	4.74	4.79	4.79	3.94
11/30/2007	3.44	3.14	3.32	3.27	3.1	3.11	3.24	3.46	3.74	4.29	4.39	4.39	3.1
12/31/2007	2.9	3.27	3.43	3.33	3.13	3.14	3.28	3.51	3.8	4.38	4.48	4.48	2.9
01/31/2008	1.6	1.92	2.08	2.11	2.07	2.18	2.45	2.81	3.23	4.06	4.28	4.28	1.6
02/29/2008	2.09	1.84	1.82	1.7	1.61	1.74	2.09	2.53	3.04	4.02	4.3	4.3	1.61
03/31/2008	1.24	1.32	1.47	1.5	1.49	1.65	2.02	2.42	2.93	4	4.22	4.22	1.24
04/30/2008	1.21	1.35	1.56	1.84	2.07	2.29	2.65	2.99	3.39	4.24	4.42	4.42	1.21
05/30/2008	1.98	1.91	2	2.16	2.44	2.71	3.09	3.41	3.78	4.54	4.7	4.7	1.91
06/30/2008	1.71	1.77	2.18	2.28	2.44	2.66	3.02	3.33	3.68	4.4	4.53	4.53	1.71
07/31/2008	1.56	1.66	1.84	2.12	2.31	2.54	2.9	3.23	3.62	4.4	4.57	4.57	1.56
08/29/2008	1.66	1.69	1.9	2.1	2.21	2.4	2.75	3.07	3.45	4.24	4.41	4.41	1.66
09/30/2008	0.96	0.72	1.41	1.73	1.79	2.03	2.5	2.94	3.42	4.25	4.36	4.36	0.72
10/31/2008	0.17	0.39	0.91	1.28	1.35	1.56	2.11	2.81	3.57	4.62	4.59	4.62	0.17
11/28/2008	0.03	-0.02	0.45	0.72	0.8	0.93	1.31	1.89	2.54	3.52	3.57	3.57	-0.02
12/31/2008	0.02	0.04	0.18	0.27	0.49	0.69	1.06	1.5	1.99	2.86	2.86	2.86	0.02
01/30/2009	0.16	0.21	0.34	0.42	0.71	0.96	1.4	1.94	2.55	3.6	3.73	3.73	0.16
02/27/2009	0.15	0.23	0.45	0.61	0.8	1.04	1.52	2.06	2.67	3.71	3.83	3.83	0.15
03/31/2009	0.13	0.17	0.4	0.51	0.65	0.85	1.23	1.69	2.23	3.24	3.49	3.49	0.13

# ESTIMATED ANNUITY YIELDS (in %)

Fully Taxable, Curve Type: pwcf, Principal Adj: 0%, 06-JUL-24

Quote Date	0.0833YR	0.25YR	0.5YR	1.0YR	2.0YR	3.0YR	5.0YR	7.0YR	10.0YR	20.0YR	30.0YR	Max	Min
04/30/2009	0.03	0.11	0.25	0.39	0.7	1	1.51	2.04	2.65	3.76	3.99	3.99	0.03
05/29/2009	0.1	0.13	0.27	0.41	0.65	1.01	1.63	2.24	2.91	4.04	4.26	4.26	0.1
06/30/2009	0.15	0.14	0.33	0.42	0.75	1.18	1.86	2.45	3.07	4.06	4.26	4.26	0.14
07/31/2009	0.13	0.17	0.26	0.4	0.77	1.18	1.83	2.4	3.01	4	4.22	4.22	0.13
08/31/2009	0.1	0.14	0.22	0.32	0.66	1.06	1.7	2.29	2.91	3.88	4.08	4.08	0.1
09/30/2009	0.05	0.08	0.15	0.29	0.62	1.01	1.64	2.2	2.8	3.76	3.98	3.98	0.05
10/30/2009	0.01	0.04	0.16	0.26	0.58	0.98	1.62	2.21	2.82	3.85	4.12	4.12	0.01
11/30/2009	0.07	0.03	0.13	0.21	0.43	0.75	1.34	1.92	2.56	3.67	4.02	4.02	0.03
12/31/2009	0.04	0.04	0.18	0.39	0.8	1.23	1.92	2.53	3.18	4.24	4.5	4.5	0.04
01/29/2010	0.01	0.06	0.14	0.22	0.52	0.92	1.58	2.21	2.89	3.99	4.3	4.3	0.01
02/26/2010	0.08	0.11	0.18	0.24	0.53	0.91	1.57	2.2	2.88	4.03	4.35	4.35	0.08
03/31/2010	0.15	0.13	0.23	0.33	0.68	1.11	1.81	2.44	3.1	4.19	4.51	4.51	0.13
04/30/2010	0.14	0.15	0.22	0.34	0.65	1.05	1.72	2.31	2.95	4	4.31	4.31	0.14
05/28/2010	0.14	0.15	0.2	0.34	0.54	0.88	1.49	2.04	2.65	3.7	4.01	4.01	0.14
06/30/2010	0.16	0.16	0.18	0.3	0.42	0.69	1.21	1.72	2.3	3.36	3.68	3.68	0.16
07/30/2010	0.14	0.14	0.18	0.27	0.39	0.6	1.05	1.57	2.19	3.32	3.72	3.72	0.14
08/31/2010	0.15	0.13	0.17	0.24	0.35	0.52	0.88	1.32	1.84	2.83	3.22	3.22	0.13
09/30/2010	0.14	0.12	0.17	0.23	0.31	0.47	0.82	1.28	1.84	2.93	3.37	3.37	0.12
10/29/2010	0.13	0.11	0.16	0.22	0.25	0.37	0.71	1.2	1.82	3.1	3.62	3.62	0.11
11/30/2010	0.16	0.15	0.19	0.26	0.34	0.53	0.94	1.43	2.03	3.28	3.77	3.77	0.15
12/31/2010	0.07	0.11	0.17	0.27	0.39	0.7	1.31	1.89	2.53	3.7	4.09	4.09	0.07
01/31/2011	0.14	0.14	0.17	0.24	0.37	0.66	1.24	1.84	2.53	3.82	4.27	4.27	0.14
02/28/2011	0.08	0.13	0.16	0.22	0.42	0.78	1.42	2	2.65	3.81	4.23	4.23	0.08
03/31/2011	0.05	0.09	0.16	0.26	0.54	0.92	1.56	2.13	2.74	3.86	4.26	4.26	0.05
04/29/2011	0.02	0.04	0.09	0.18	0.37	0.69	1.28	1.86	2.52	3.71	4.13	4.13	0.02
05/31/2011	0.04	0.05	0.09	0.16	0.29	0.54	1.05	1.6	2.24	3.46	3.91	3.91	0.04
06/30/2011	0.01	0.01	0.08	0.17	0.3	0.57	1.1	1.67	2.33	3.61	4.06	4.06	0.01
07/29/2011	0.12	0.08	0.16	0.23	0.28	0.42	0.8	1.33	1.97	3.27	3.77	3.77	0.08
08/31/2011	0.01	0.01	0.03	0.09	0.14	0.25	0.54	0.95	1.49	2.69	3.21	3.21	0.01
09/30/2011	0.01	0.01	0.06	0.13	0.2	0.32	0.59	0.93	1.36	2.31	2.67	2.67	0.01
10/31/2011	0.01	0	0.04	0.11	0.18	0.29	0.57	0.97	1.46	2.49	2.87	2.87	0
11/30/2011	0.01	-0	0.05	0.1	0.19	0.31	0.58	0.96	1.43	2.41	2.77	2.77	-0
12/30/2011	-0	0.02	0.05	0.11	0.19	0.29	0.53	0.86	1.29	2.23	2.6	2.6	-0
01/31/2012	0.04	0.05	0.08	0.11	0.17	0.23	0.42	0.74	1.17	2.2	2.6	2.6	0.04



# ESTIMATED ANNUITY YIELDS (in %)

Fully Taxable, Curve Type: pwcf, Principal Adj: 0%, 06-JUL-24

Quote Date	0.0833YR	0.25YR	0.5YR	1.0YR	2.0YR	3.0YR	5.0YR	7.0YR	10.0YR	20.0YR	30.0YR	Max	Min
02/29/2012	0.07	0.07	0.12	0.17	0.24	0.34	0.57	0.89	1.32	2.35	2.75	2.75	0.07
03/30/2012	0.03	0.08	0.13	0.2	0.28	0.41	0.7	1.07	1.55	2.61	3.01	3.01	0.03
04/30/2012	0.08	0.09	0.15	0.19	0.23	0.31	0.53	0.85	1.29	2.32	2.75	2.75	0.08
05/31/2012	0.03	0.07	0.13	0.18	0.23	0.3	0.47	0.69	1.02	1.9	2.29	2.29	0.03
06/29/2012	0.03	0.09	0.15	0.22	0.28	0.35	0.53	0.77	1.11	2.02	2.41	2.41	0.03
07/31/2012	0.06	0.09	0.14	0.17	0.19	0.24	0.39	0.63	0.96	1.84	2.22	2.22	0.06
08/31/2012	0.08	0.09	0.13	0.17	0.21	0.26	0.4	0.64	0.99	1.91	2.31	2.31	0.08
09/28/2012	0.05	0.08	0.15	0.17	0.22	0.27	0.42	0.67	1.04	2.02	2.44	2.44	0.05
10/31/2012	0.09	0.11	0.15	0.19	0.25	0.32	0.5	0.76	1.13	2.07	2.48	2.48	0.09
11/30/2012	0.06	0.07	0.14	0.18	0.24	0.29	0.43	0.68	1.03	1.98	2.41	2.41	0.06
12/31/2012	0.03	0.04	0.11	0.16	0.21	0.29	0.48	0.76	1.15	2.14	2.56	2.56	0.03
01/31/2013	0.03	0.07	0.1	0.15	0.21	0.32	0.56	0.9	1.34	2.37	2.79	2.79	0.03
02/28/2013	0.06	0.11	0.12	0.16	0.2	0.28	0.49	0.8	1.22	2.27	2.71	2.71	0.06
03/28/2013	0.03	0.07	0.11	0.15	0.21	0.29	0.49	0.79	1.21	2.26	2.72	2.72	0.03
04/30/2013	0.02	0.04	0.08	0.12	0.18	0.25	0.43	0.7	1.09	2.07	2.51	2.51	0.02
05/31/2013	0.02	0.03	0.07	0.13	0.21	0.36	0.66	1.01	1.47	2.5	2.92	2.92	0.02
06/28/2013	0.01	0.03	0.09	0.15	0.24	0.47	0.9	1.33	1.83	2.82	3.19	3.19	0.01
07/31/2013	0.02	0.03	0.06	0.12	0.19	0.41	0.86	1.33	1.87	2.93	3.32	3.32	0.02
08/30/2013	0.01	0.02	0.05	0.13	0.25	0.53	1.05	1.55	2.1	3.07	3.43	3.43	0.01
09/30/2013	0.02	0.01	0.03	0.1	0.18	0.41	0.85	1.33	1.88	2.95	3.37	3.37	0.01
10/31/2013	0.03	0.03	0.07	0.12	0.19	0.4	0.83	1.3	1.84	2.91	3.32	3.32	0.03
11/29/2013	0.04	0.06	0.1	0.15	0.19	0.39	0.83	1.35	1.95	3.09	3.49	3.49	0.04
12/31/2013	0.02	0.06	0.07	0.13	0.22	0.52	1.08	1.65	2.26	3.32	3.69	3.69	0.02
01/31/2014	0.03	0.02	0.05	0.11	0.2	0.45	0.94	1.43	1.97	2.95	3.32	3.32	0.02
02/28/2014	0.04	0.04	0.07	0.12	0.19	0.45	0.95	1.43	1.97	2.93	3.3	3.3	0.04
03/31/2014	0.02	0.03	0.06	0.1	0.23	0.56	1.12	1.61	2.12	2.97	3.3	3.3	0.02
04/30/2014	0.02	0.02	0.05	0.07	0.22	0.54	1.09	1.56	2.06	2.88	3.21	3.21	0.02
05/30/2014	0.03	0.03	0.06	0.08	0.21	0.5	1	1.44	1.9	2.71	3.05	3.05	0.03
06/30/2014	0.02	0.02	0.06	0.09	0.26	0.56	1.08	1.52	1.98	2.77	3.1	3.1	0.02
07/31/2014	0	0.02	0.06	0.09	0.3	0.65	1.21	1.64	2.06	2.78	3.08	3.08	0
08/29/2014	0.01	0.02	0.05	0.08	0.3	0.63	1.14	1.52	1.9	2.55	2.84	2.84	0.01
09/30/2014	0.01	0.01	0.03	0.07	0.34	0.7	1.25	1.65	2.05	2.7	2.97	2.97	0.01
10/31/2014	-0	0.02	0.06	0.1	0.31	0.63	1.14	1.52	1.91	2.56	2.84	2.84	-0
11/28/2014	0.03	0.02	0.07	0.12	0.3	0.58	1.04	1.4	1.76	2.38	2.66	2.66	0.02

# ESTIMATED ANNUITY YIELDS (in %)

Fully Taxable, Curve Type: pwcf, Principal Adj: 0%, 06-JUL-24

Quote Date	0.0833YR	0.25YR	0.5YR	1.0YR	2.0YR	3.0YR	5.0YR	7.0YR	10.0YR	20.0YR	30.0YR	Max	Min
12/31/2014	0.01	0.01	0.08	0.21	0.46	0.77	1.23	1.55	1.85	2.31	2.55	2.55	0.01
01/30/2015	-0	0.01	0.05	0.14	0.31	0.52	0.85	1.1	1.36	1.86	2.06	2.06	-0
02/27/2015	0.02	0.01	0.06	0.18	0.43	0.71	1.13	1.42	1.7	2.19	2.41	2.41	0.01
03/31/2015	0.04	-0.01	0.1	0.22	0.4	0.64	1.02	1.3	1.59	2.11	2.35	2.35	-0.01
04/30/2015	-0.01	0.01	0.05	0.18	0.4	0.66	1.05	1.36	1.68	2.25	2.53	2.53	-0.01
05/29/2015	0	0.01	0.05	0.21	0.42	0.68	1.09	1.41	1.75	2.36	2.67	2.67	0
06/30/2015	-0.04	0	0.06	0.22	0.44	0.73	1.19	1.56	1.94	2.56	2.89	2.89	-0.04
07/31/2015	0.03	0.06	0.14	0.27	0.48	0.73	1.14	1.47	1.8	2.34	2.66	2.66	0.03
08/31/2015	-0.01	0.02	0.23	0.35	0.57	0.82	1.21	1.52	1.85	2.43	2.73	2.73	-0.01
09/30/2015	-0.02	-0.01	0.05	0.26	0.47	0.69	1.04	1.34	1.65	2.24	2.58	2.58	-0.02
10/30/2015	0.02	0.06	0.21	0.37	0.57	0.81	1.19	1.48	1.79	2.34	2.66	2.66	0.02
11/30/2015	0.12	0.16	0.36	0.57	0.78	1	1.35	1.62	1.9	2.41	2.72	2.72	0.12
12/31/2015	0.1	0.18	0.5	0.69	0.9	1.12	1.46	1.72	2	2.47	2.76	2.76	0.1
01/29/2016	0.23	0.32	0.41	0.56	0.7	0.85	1.1	1.34	1.6	2.13	2.46	2.46	0.23
02/29/2016	0.22	0.29	0.45	0.6	0.69	0.81	1.03	1.24	1.47	1.96	2.3	2.3	0.22
03/31/2016	0.14	0.19	0.37	0.54	0.64	0.76	0.98	1.22	1.47	1.96	2.3	2.3	0.14
04/29/2016	0.14	0.19	0.36	0.52	0.66	0.81	1.05	1.29	1.54	2.03	2.37	2.37	0.14
05/31/2016	0.23	0.31	0.45	0.64	0.76	0.91	1.15	1.36	1.59	2.02	2.35	2.35	0.23
06/30/2016	0.19	0.24	0.32	0.45	0.52	0.62	0.8	1	1.21	1.63	1.97	1.97	0.19
07/29/2016	0.18	0.25	0.36	0.51	0.59	0.68	0.85	1.03	1.22	1.58	1.9	1.9	0.18
08/31/2016	0.27	0.3	0.44	0.59	0.71	0.83	1.03	1.2	1.38	1.71	1.99	1.99	0.27
09/30/2016	0.19	0.24	0.44	0.6	0.69	0.8	0.99	1.16	1.36	1.76	2.06	2.06	0.19
10/31/2016	0.16	0.31	0.46	0.62	0.75	0.88	1.11	1.32	1.55	2	2.31	2.31	0.16
11/30/2016	0.35	0.48	0.57	0.77	0.96	1.19	1.55	1.83	2.1	2.54	2.82	2.82	0.35
12/30/2016	0.42	0.51	0.63	0.81	1.01	1.24	1.6	1.89	2.17	2.6	2.87	2.87	0.42
01/31/2017	0.47	0.5	0.6	0.76	1.01	1.25	1.6	1.88	2.16	2.59	2.86	2.86	0.47
02/28/2017	0.43	0.58	0.69	0.84	1.07	1.3	1.64	1.9	2.14	2.52	2.8	2.8	0.43
03/31/2017	0.71	0.74	0.87	1	1.13	1.33	1.64	1.89	2.13	2.52	2.81	2.81	0.71
04/28/2017	0.67	0.78	0.95	1.06	1.16	1.32	1.57	1.8	2.03	2.43	2.73	2.73	0.67
05/31/2017	0.84	0.94	1.06	1.15	1.21	1.33	1.55	1.75	1.96	2.36	2.64	2.64	0.84
06/30/2017	0.85	1.01	1.1	1.22	1.3	1.43	1.66	1.86	2.06	2.4	2.65	2.65	0.85
07/31/2017	0.98	1.09	1.1	1.2	1.27	1.4	1.62	1.82	2.04	2.44	2.7	2.7	0.98
08/31/2017	0.98	0.95	1.1	1.2	1.26	1.35	1.53	1.7	1.89	2.25	2.51	2.51	0.95
09/29/2017	0.96	1.01	1.18	1.29	1.4	1.52	1.73	1.91	2.1	2.44	2.67	2.67	0.96

# ESTIMATED ANNUITY YIELDS (in %)

Fully Taxable, Curve Type: pwcf, Principal Adj: 0%, 06-JUL-24

Quote Date	0.0833YR	0.25YR	0.5YR	1.0YR	2.0YR	3.0YR	5.0YR	7.0YR	10.0YR	20.0YR	30.0YR	Max	Min
10/31/2017	1.01	1.12	1.25	1.39	1.51	1.63	1.82	2	2.17	2.46	2.7	2.7	1.01
11/30/2017	1.12	1.23	1.41	1.58	1.7	1.81	1.98	2.12	2.26	2.5	2.69	2.69	1.12
12/29/2017	1.24	1.37	1.51	1.72	1.81	1.91	2.06	2.18	2.29	2.46	2.62	2.62	1.24
01/31/2018	1.36	1.42	1.61	1.81	2.01	2.16	2.35	2.48	2.6	2.74	2.85	2.85	1.36
02/28/2018	1.51	1.63	1.84	1.98	2.15	2.29	2.48	2.62	2.75	2.93	3.05	3.05	1.51
03/29/2018	1.64	1.72	1.91	2.04	2.19	2.3	2.44	2.55	2.65	2.78	2.89	2.89	1.64
04/30/2018	1.66	1.83	1.99	2.17	2.38	2.52	2.68	2.78	2.87	2.98	3.07	3.07	1.66
05/31/2018	1.76	1.9	2.06	2.2	2.35	2.46	2.6	2.7	2.78	2.89	2.97	2.97	1.76
06/29/2018	1.78	1.93	2.1	2.27	2.45	2.55	2.66	2.74	2.81	2.89	2.96	2.96	1.78
07/31/2018	1.93	1.99	2.19	2.37	2.57	2.68	2.78	2.85	2.91	2.99	3.06	3.06	1.93
08/31/2018	1.97	2.11	2.26	2.4	2.55	2.63	2.71	2.76	2.81	2.9	2.98	2.98	1.97
09/28/2018	2.12	2.21	2.37	2.54	2.73	2.82	2.9	2.96	3.01	3.1	3.17	3.17	2.12
10/31/2018	2.21	2.32	2.47	2.63	2.8	2.87	2.94	3	3.07	3.22	3.33	3.33	2.21
11/30/2018	2.3	2.38	2.53	2.67	2.76	2.79	2.82	2.87	2.92	3.07	3.21	3.21	2.3
12/31/2018	2.46	2.4	2.53	2.61	2.55	2.52	2.51	2.56	2.62	2.77	2.92	2.92	2.4
01/31/2019	2.42	2.42	2.47	2.54	2.51	2.48	2.46	2.5	2.55	2.71	2.88	2.88	2.42
02/28/2019	2.4	2.45	2.5	2.54	2.55	2.53	2.53	2.58	2.64	2.81	2.97	2.97	2.4
03/29/2019	2.4	2.43	2.44	2.42	2.34	2.29	2.26	2.29	2.34	2.49	2.67	2.67	2.26
04/30/2019	2.44	2.43	2.44	2.41	2.33	2.29	2.28	2.34	2.41	2.61	2.79	2.79	2.28
05/31/2019	2.32	2.36	2.36	2.28	2.07	1.98	1.94	1.98	2.04	2.23	2.42	2.42	1.94
06/28/2019	2.03	2.1	2.07	2	1.86	1.8	1.78	1.82	1.9	2.13	2.36	2.36	1.78
07/31/2019	2.18	2.08	2.07	2.04	1.95	1.9	1.86	1.88	1.93	2.13	2.35	2.35	1.86
08/30/2019	2.01	1.96	1.87	1.83	1.65	1.55	1.47	1.45	1.47	1.62	1.82	2.01	1.45
09/30/2019	1.85	1.82	1.83	1.84	1.73	1.66	1.6	1.6	1.63	1.78	1.97	1.97	1.6
10/31/2019	1.51	1.56	1.55	1.58	1.57	1.55	1.54	1.56	1.62	1.82	2.03	2.03	1.51
11/29/2019	1.58	1.59	1.6	1.66	1.66	1.64	1.64	1.67	1.72	1.91	2.09	2.09	1.58
12/31/2019	1.48	1.53	1.58	1.61	1.6	1.61	1.65	1.72	1.81	2.06	2.26	2.26	1.48
01/31/2020	1.51	1.56	1.54	1.52	1.4	1.35	1.33	1.36	1.41	1.64	1.86	1.86	1.33
02/28/2020	1.41	1.3	1.16	1.11	1	0.96	0.94	0.98	1.05	1.28	1.52	1.52	0.94
03/31/2020	0.01	0.06	0.12	0.14	0.21	0.25	0.32	0.41	0.52	0.82	1.11	1.11	0.01
04/30/2020	0.07	0.1	0.11	0.14	0.18	0.22	0.29	0.39	0.5	0.8	1.09	1.09	0.07
05/29/2020	0.12	0.16	0.16	0.19	0.18	0.19	0.24	0.34	0.47	0.83	1.16	1.16	0.12
06/30/2020	0.13	0.16	0.15	0.17	0.16	0.16	0.21	0.32	0.45	0.82	1.16	1.16	0.13
07/31/2020	0.09	0.09	0.1	0.14	0.13	0.13	0.16	0.25	0.36	0.67	0.96	0.96	0.09

# ESTIMATED ANNUITY YIELDS (in %)

Fully Taxable, Curve Type: pwcf, Principal Adj: 0%, 06-JUL-24

Quote Date	0.0833YR	0.25YR	0.5YR	1.0YR	2.0YR	3.0YR	5.0YR	7.0YR	10.0YR	20.0YR	30.0YR	Max	Min
08/31/2020	0.09	0.09	0.11	0.13	0.13	0.14	0.2	0.31	0.46	0.89	1.21	1.21	0.09
09/30/2020	0.08	0.09	0.1	0.12	0.13	0.14	0.2	0.3	0.45	0.86	1.18	1.18	0.08
10/30/2020	0.08	0.09	0.1	0.14	0.15	0.18	0.27	0.41	0.6	1.05	1.37	1.37	0.08
11/30/2020	0.07	0.08	0.09	0.11	0.13	0.16	0.25	0.39	0.57	1	1.3	1.3	0.07
12/31/2020	0.06	0.09	0.09	0.1	0.11	0.14	0.23	0.39	0.6	1.09	1.39	1.39	0.06
01/29/2021	0.04	0.06	0.08	0.09	0.1	0.14	0.26	0.45	0.7	1.25	1.56	1.56	0.04
02/26/2021	0.03	0.04	0.05	0.09	0.1	0.21	0.44	0.71	1.02	1.62	1.93	1.93	0.03
03/31/2021	0.01	0.03	0.02	0.06	0.09	0.23	0.55	0.9	1.27	1.91	2.2	2.2	0.01
04/30/2021	0	0.02	0.02	0.06	0.1	0.23	0.5	0.83	1.18	1.8	2.08	2.08	0
05/28/2021	-0	0	0.02	0.05	0.08	0.2	0.47	0.79	1.15	1.79	2.08	2.08	-0
06/30/2021	0.04	0.04	0.04	0.08	0.16	0.31	0.58	0.84	1.13	1.65	1.91	1.91	0.04
07/30/2021	0.04	0.05	0.05	0.07	0.11	0.23	0.45	0.67	0.91	1.43	1.71	1.71	0.04
08/31/2021	0.04	0.06	0.04	0.07	0.14	0.27	0.52	0.74	0.99	1.47	1.74	1.74	0.04
09/30/2021	0.06	0.04	0.04	0.07	0.16	0.34	0.64	0.9	1.17	1.64	1.88	1.88	0.04
10/29/2021	0.05	0.05	0.06	0.12	0.32	0.55	0.87	1.1	1.33	1.68	1.85	1.85	0.05
11/30/2021	0.08	0.06	0.08	0.17	0.39	0.61	0.91	1.09	1.26	1.58	1.74	1.74	0.06
12/31/2021	-0.02	0.06	0.14	0.3	0.55	0.76	1.03	1.19	1.35	1.66	1.83	1.83	-0.02
01/31/2022	0.03	0.18	0.43	0.66	0.97	1.17	1.42	1.55	1.67	1.94	2.07	2.07	0.03
02/28/2022	0.08	0.35	0.63	0.89	1.25	1.44	1.62	1.69	1.77	2.01	2.16	2.16	0.08
03/31/2022	0.11	0.5	0.99	1.43	2.04	2.28	2.44	2.44	2.42	2.46	2.52	2.52	0.11
04/29/2022	0.28	0.85	1.32	1.83	2.4	2.66	2.87	2.92	2.96	3.06	3.12	3.12	0.28
05/31/2022	0.71	1.09	1.51	1.87	2.29	2.51	2.72	2.79	2.85	3.03	3.16	3.16	0.71
06/30/2022	1.1	1.7	2.4	2.72	2.9	2.98	3.05	3.06	3.07	3.2	3.31	3.31	1.1
07/29/2022	2.09	2.42	2.85	2.93	2.94	2.89	2.8	2.75	2.73	2.9	3.08	3.08	2.09
08/31/2022	2.34	2.86	3.26	3.39	3.49	3.51	3.5	3.43	3.36	3.4	3.48	3.51	2.34
09/30/2022	2.71	3.26	3.86	4.12	4.31	4.33	4.27	4.17	4.07	4.02	4.03	4.33	2.71
10/31/2022	3.68	4.09	4.49	4.63	4.62	4.56	4.45	4.34	4.25	4.32	4.36	4.63	3.68
11/30/2022	4.05	4.32	4.68	4.76	4.55	4.34	4.07	3.91	3.79	3.83	3.91	4.76	3.79
12/30/2022	3.91	4.41	4.74	4.76	4.62	4.46	4.25	4.14	4.05	4.06	4.12	4.76	3.91
01/31/2023	4.63	4.72	4.8	4.84	4.51	4.24	3.93	3.77	3.67	3.68	3.73	4.84	3.67
02/28/2023	4.68	4.88	5.08	5.17	5.03	4.82	4.53	4.33	4.18	4.11	4.1	5.17	4.1
03/31/2023	4.77	4.77	4.89	4.75	4.35	4.11	3.86	3.72	3.63	3.68	3.75	4.89	3.63
04/28/2023	4.4	5.15	5	4.91	4.4	4.1	3.79	3.64	3.56	3.64	3.74	5.15	3.56
05/31/2023	5.19	5.41	5.43	5.34	4.81	4.48	4.13	3.95	3.84	3.89	3.97	5.43	3.84

## ESTIMATED ANNUITY YIELDS (in %)

Fully Taxable, Curve Type: pwcf, Principal Adj: 0%, 06-JUL-24

Quote Date	0.0833YR	0.25YR	0.5YR	1.0YR	2.0YR	3.0YR	5.0YR	7.0YR	10.0YR	20.0YR	30.0YR	Max	Min
06/30/2023	5.28	5.39	5.45	5.51	5.21	4.92	4.55	4.32	4.13	4.03	4.03	5.51	4.03
07/31/2023	5.48	5.51	5.52	5.51	5.19	4.91	4.55	4.35	4.2	4.16	4.17	5.52	4.16
08/31/2023	5.51	5.54	5.56	5.51	5.16	4.9	4.6	4.43	4.32	4.34	4.37	5.56	4.32
09/29/2023	5.51	5.57	5.58	5.55	5.3	5.1	4.87	4.77	4.72	4.82	4.87	5.58	4.72
10/31/2023	5.53	5.58	5.59	5.55	5.31	5.16	5.03	5	5.02	5.21	5.26	5.59	5
11/30/2023	5.52	5.5	5.44	5.3	4.95	4.74	4.52	4.45	4.43	4.6	4.65	5.52	4.43
12/29/2023	5.5	5.48	5.3	4.98	4.55	4.32	4.08	4	3.96	4.07	4.15	5.5	3.96