

ESTIMATED ZERO BOND 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	-5422.25	-1865.26	-925.66	-457.06	-226.53	-149.55	-88.17	-61.83	-42.17	-19.26	-12.35	-12.35	-5422.25
01/30/1926	-5796.73	-1865.53	-925.9	-457.03	-226.59	-149.63	-88.25	-61.89	-42.23	-19.34	-12.42	-12.42	-5796.73
02/27/1926	-6003.94	-1886.59	-925.96	-457.07	-226.61	-149.65	-88.25	-61.87	-42.22	-19.36	-12.44	-12.44	-6003.94
03/31/1926	-5603.52	-1845.12	-915.87	-457.14	-226.35	-149.7	-88.27	-61.86	-42.19	-19.34	-12.43	-12.43	-5603.52
04/30/1926	-5422.86	-1825.23	-911.08	-457.2	-226.48	-149.85	-88.4	-61.96	-42.26	-19.38	-12.45	-12.45	-5422.86
05/28/1926	-5422.7	-1825.07	-910.92	-457.29	-226.42	-149.75	-88.35	-62	-42.3	-19.39	-12.45	-12.45	-5422.7
06/30/1926	-5423.09	-1825.46	-910.82	-457.25	-226.49	-149.77	-88.34	-61.98	-42.3	-19.4	-12.47	-12.47	-5423.09
07/31/1926	-5422.82	-1824.99	-910.71	-457.33	-226.5	-149.75	-88.3	-61.92	-42.25	-19.38	-12.45	-12.45	-5422.82
08/31/1926	-5603.31	-1844.91	-925.82	-457.35	-226.48	-149.71	-88.25	-61.87	-42.21	-19.38	-12.46	-12.46	-5603.31
09/30/1926	-5422.29	-1824.66	-920.5	-457.1	-226.31	-149.66	-88.29	-61.95	-42.27	-19.37	-12.44	-12.44	-5422.29
10/30/1926	-5422.38	-1824.68	-920.54	-457.15	-226.49	-149.77	-88.34	-61.97	-42.3	-19.42	-12.48	-12.48	-5422.38
11/30/1926	-5422.53	-1865.53	-920.8	-457.43	-226.49	-149.78	-88.37	-62.01	-42.35	-19.49	-12.55	-12.55	-5422.53
12/31/1926	-5422.8	-1865.8	-926.17	-457.7	-226.66	-149.93	-88.5	-62.13	-42.43	-19.51	-12.56	-12.56	-5422.8
01/31/1927	-6003.92	-1886.57	-925.95	-457.45	-226.61	-149.94	-88.56	-62.21	-42.5	-19.54	-12.57	-12.57	-6003.92
02/28/1927	-5422.61	-1824.98	-910.83	-456.37	-226.69	-149.99	-88.53	-62.22	-42.52	-19.59	-12.61	-12.61	-5422.61
03/31/1927	-5603.38	-1844.98	-915.81	-456.14	-226.62	-149.98	-88.56	-62.27	-42.6	-19.72	-12.73	-12.73	-5603.38
04/30/1927	-5422.32	-1824.75	-910.63	-455.98	-226.47	-149.89	-88.53	-62.26	-42.6	-19.72	-12.72	-12.72	-5422.32
05/31/1927	-5603.57	-1825.07	-915.92	-456.23	-226.7	-149.98	-88.51	-62.19	-42.57	-19.8	-12.8	-12.8	-5603.57
06/30/1927	-5422.61	-1824.98	-910.83	-456.13	-226.6	-149.94	-88.51	-62.21	-42.56	-19.72	-12.73	-12.73	-5422.61
07/30/1927	-5422.92	-1825.21	-911.01	-456.41	-226.65	-149.92	-88.53	-62.33	-42.66	-19.71	-12.71	-12.71	-5422.92
08/31/1927	-5603.78	-1845.38	-921.18	-456.56	-226.73	-149.98	-88.58	-62.38	-42.7	-19.74	-12.72	-12.72	-5603.78
09/30/1927	-5423.27	-1825.62	-915.83	-455.93	-226.62	-150.04	-88.67	-62.41	-42.68	-19.75	-12.77	-12.77	-5423.27
10/31/1927	-5604.08	-1825.36	-921.12	-456.43	-226.71	-149.99	-88.52	-62.21	-42.6	-19.82	-12.8	-12.8	-5604.08
11/30/1927	-5422.71	-1845.17	-915.92	-456.39	-226.69	-149.99	-88.64	-62.47	-42.82	-19.82	-12.76	-12.76	-5422.71
12/31/1927	-5422.57	-1845.04	-920.84	-456.28	-226.67	-149.99	-88.67	-62.5	-42.85	-19.86	-12.79	-12.79	-5422.57
01/31/1928	-5796.85	-1865.65	-920.92	-455.67	-226.54	-150.03	-88.72	-62.47	-42.77	-19.85	-12.86	-12.86	-5796.85
02/29/1928	-5422.93	-1825.3	-911.15	-456.37	-226.61	-150.02	-88.7	-62.47	-42.77	-19.93	-12.94	-12.94	-5422.93
03/31/1928	-5603.53	-1845.13	-915.88	-457.38	-226.87	-150.04	-88.65	-62.49	-42.84	-19.86	-12.8	-12.8	-5603.53
04/30/1928	-5422.1	-1824.47	-910.32	-457.1	-226.73	-149.94	-88.59	-62.44	-42.8	-19.85	-12.81	-12.81	-5422.1
05/31/1928	-5602.84	-1824.35	-915.19	-457	-226.64	-149.85	-88.51	-62.36	-42.73	-19.75	-12.71	-12.71	-5602.84
06/30/1928	-5421.97	-1824.34	-910.05	-456.74	-226.53	-149.79	-88.48	-62.35	-42.74	-19.77	-12.72	-12.72	-5421.97
07/31/1928	-5421.87	-1823.97	-909.63	-456.53	-226.27	-149.51	-88.21	-62.1	-42.5	-19.65	-12.68	-12.68	-5421.87
08/31/1928	-5602.34	-1843.93	-924.84	-456.34	-226.23	-149.53	-88.25	-62.13	-42.52	-19.67	-12.7	-12.7	-5602.34
09/29/1928	-5601.93	-1843.52	-924.51	-456.08	-226.16	-149.52	-88.25	-62.11	-42.48	-19.65	-12.7	-12.7	-5601.93
10/31/1928	-5602.04	-1823.56	-924.56	-456.58	-226.29	-149.53	-88.24	-62.15	-42.56	-19.67	-12.67	-12.67	-5602.04

ESTIMATED ZERO BOND 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	-5421.61	-1864.61	-919.88	-456.51	-226.24	-149.49	-88.21	-62.12	-42.53	-19.73	-12.76	-12.76	-5421.61
12/31/1928	-5421.43	-1864.43	-924.8	-456.2	-226.08	-149.37	-88.13	-62.06	-42.49	-19.66	-12.68	-12.68	-5421.43
01/31/1929	-6002.48	-1885.14	-924.51	-456.26	-225.99	-149.23	-87.99	-61.94	-42.38	-19.6	-12.66	-12.66	-6002.48
02/28/1929	-5421.24	-1823.61	-909.46	-456.1	-225.84	-148.95	-87.87	-61.82	-42.31	-18.41	-11.1	-11.1	-5421.24
03/28/1929	-5421.22	-1823.59	-909.29	-455.8	-225.74	-148.92	-87.84	-61.74	-42.2	-18.78	-12.61	-12.61	-5421.22
04/30/1929	-5420.67	-1823.25	-909.24	-455.68	-225.74	-148.95	-87.93	-61.89	-42.38	-18.9	-11.71	-11.71	-5420.67
05/31/1929	-5601.77	-1823.28	-914.13	-454.78	-225.32	-148.69	-87.75	-61.72	-42.23	-18.78	-11.63	-11.63	-5601.77
06/29/1929	-5602.22	-1823.73	-914.45	-456.08	-225.82	-148.93	-87.86	-61.83	-42.34	-18.38	-11.04	-11.04	-5602.22
07/31/1929	-5420.87	-1823.41	-909.36	-456.1	-225.91	-149.04	-87.93	-61.83	-42.28	-18.65	-11.45	-11.45	-5420.87
08/30/1929	-5421.28	-1823.65	-919.55	-456.18	-225.95	-149.07	-87.95	-61.84	-42.29	-18.75	-11.58	-11.58	-5421.28
09/30/1929	-5421.08	-1823.46	-919.35	-456.21	-225.9	-148.99	-87.86	-61.75	-42.2	-18.71	-11.58	-11.58	-5421.08
10/31/1929	-5602.71	-1824.22	-925.22	-456.71	-226.27	-149.32	-88.15	-62.03	-42.47	-18.67	-11.39	-11.39	-5602.71
11/27/1929	-5603.49	-1825	-926	-457.25	-226.69	-149.7	-88.45	-62.26	-42.65	-19.75	-12.75	-12.75	-5603.49
12/31/1929	-5422.99	-1865.98	-925.95	-457.28	-226.77	-149.79	-88.5	-62.26	-42.61	-19.62	-12.62	-12.62	-5422.99
01/31/1930	-6003.44	-1886.07	-925.42	-456.94	-226.52	-149.58	-88.35	-62.15	-42.53	-19.59	-12.6	-12.6	-6003.44
02/28/1930	-5422.23	-1824.6	-910.45	-457.13	-226.4	-149.77	-88.51	-62.28	-42.62	-19.63	-12.62	-12.62	-5422.23
03/31/1930	-5603.15	-1844.75	-915.5	-457.19	-226.46	-150.02	-88.78	-62.45	-42.72	-19.7	-12.69	-12.69	-5603.15
04/30/1930	-5422.27	-1824.65	-910.49	-457.18	-226.44	-149.81	-88.55	-62.31	-42.65	-19.72	-12.72	-12.72	-5422.27
05/29/1930	-5422.35	-1824.72	-910.57	-457.25	-226.52	-149.89	-88.63	-62.4	-42.75	-19.82	-12.8	-12.8	-5422.35
06/30/1930	-5422.65	-1825.02	-910.87	-457.55	-226.82	-150.2	-88.86	-62.54	-42.8	-19.79	-12.76	-12.76	-5422.65
07/31/1930	-5422.85	-1825.22	-911.07	-457.75	-227.02	-150.33	-88.92	-62.56	-42.81	-19.77	-12.75	-12.75	-5422.85
08/29/1930	-5422.91	-1825.28	-916.12	-457.81	-227.08	-150.35	-88.91	-62.54	-42.78	-19.71	-12.69	-12.69	-5422.91
09/30/1930	-5422.97	-1825.34	-921.24	-457.87	-227.14	-150.41	-88.98	-62.62	-42.85	-19.81	-12.77	-12.77	-5422.97
10/31/1930	-5604.21	-1825.72	-926.72	-458.25	-227.52	-150.64	-89.09	-62.67	-42.87	-19.77	-12.74	-12.74	-5604.21
11/29/1930	-5604.52	-1846.12	-927.03	-458.56	-227.83	-150.83	-89.18	-62.72	-42.89	-19.76	-12.73	-12.73	-5604.52
12/31/1930	-5423.77	-1866.77	-927.14	-458.67	-227.94	-150.88	-89.18	-62.69	-42.84	-19.69	-12.67	-12.67	-5423.77
01/31/1931	-6004.8	-1887.45	-926.82	-458.35	-227.62	-150.62	-88.97	-62.51	-42.68	-19.55	-12.56	-12.56	-6004.8
02/28/1931	-5423.86	-1826.24	-912.09	-457.51	-228.04	-150.89	-89.07	-62.61	-42.74	-19.57	-12.56	-12.56	-5423.86
03/31/1931	-5604.83	-1846.42	-917.18	-457.6	-228.13	-150.97	-89.13	-62.67	-42.79	-19.61	-12.6	-12.6	-5604.83
04/30/1931	-5424.28	-1826.66	-912.5	-457.93	-228.45	-151.18	-89.26	-62.75	-42.85	-19.64	-12.61	-12.61	-5424.28
05/29/1931	-5424.82	-1827.2	-913.04	-458.47	-228.99	-151.54	-89.46	-62.89	-42.94	-19.67	-12.64	-12.64	-5424.82
06/30/1931	-5422.83	-1825.2	-911.05	-456.47	-227	-150.37	-88.96	-62.68	-42.94	-19.92	-12.87	-12.87	-5422.83
07/31/1931	-5422.8	-1825.17	-911.02	-456.44	-226.97	-150.34	-88.93	-62.65	-42.91	-19.89	-12.85	-12.85	-5422.8
08/31/1931	-5603.65	-1845.25	-921.05	-456.43	-226.96	-150.32	-88.92	-62.64	-42.9	-19.88	-12.83	-12.83	-5603.65

ESTIMATED ZERO BOND 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	-5422.5	-1824.88	-915.72	-456.15	-226.67	-150.04	-88.64	-62.36	-42.62	-19.83	-12.92	-12.92	-5422.5
10/31/1931	-5603.06	-1824.57	-920.46	-455.84	-226.37	-149.74	-88.33	-62.05	-42.31	-19.52	-4.47	-4.47	-5603.06
11/30/1931	-5422.24	-1844.7	-915.45	-455.88	-226.41	-149.78	-88.37	-62.09	-42.35	-19.49	-3.33	-3.33	-5422.24
12/31/1931	-5421.81	-1844.28	-920.08	-455.46	-225.99	-149.35	-87.95	-61.67	-41.93	-19.07	-6.77	-6.77	-5421.81

ESTIMATED ZERO BOND 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	-5605.17	-1846.31	-921.4	-456.12	-226.36	-149.63	-88.15	-61.83	-42.07	-19.41	-12.23	-12.23	-5605.17
02/29/1932	-5424.51	-1826.73	-911.3	-457.35	-226.84	-150.01	-88.49	-62.17	-42.41	-19.54	-12.09	-12.09	-5424.51
03/31/1932	-5605.74	-1846.93	-916.96	-457.84	-227.17	-150.28	-88.72	-62.38	-42.61	-19.7	-12.21	-12.21	-5605.74
04/30/1932	-5425.43	-1827.74	-913.44	-459.37	-228.06	-150.96	-89.22	-62.81	-42.99	-19.92	-12.29	-12.29	-5425.43
05/31/1932	-5606.52	-1827.97	-919.05	-459.49	-228.45	-151.17	-89.29	-62.82	-42.95	-19.83	-12.2	-12.2	-5606.52
06/30/1932	-5425.62	-1828.01	-913.74	-459.73	-228.19	-151.01	-89.21	-62.77	-42.92	-19.85	-12.24	-12.24	-5425.62
07/30/1932	-5425.63	-1828.02	-913.78	-459.89	-228.22	-150.99	-89.2	-62.78	-42.96	-19.91	-12.3	-12.3	-5425.63
08/31/1932	-5606.47	-1848.08	-929.05	-459.83	-228.43	-150.91	-89.06	-62.76	-43.01	-20	-12.36	-12.36	-5606.47
09/30/1932	-5425.73	-1828.54	-924.02	-460.21	-228.77	-151.19	-89.08	-62.51	-42.88	-20.12	-12.4	-12.4	-5425.73
10/31/1932	-5606.62	-1828.26	-929.35	-460.4	-229.16	-151.37	-89.21	-62.7	-42.99	-20.09	-12.39	-12.39	-5606.62
11/30/1932	-5425.82	-1868.94	-924.18	-460.53	-229.17	-151.35	-89.2	-62.71	-43.02	-20.1	-12.37	-12.37	-5425.82
12/31/1932	-5425.8	-1868.94	-929.19	-460.61	-229.32	-151.58	-89.38	-62.8	-43.06	-20.13	-12.38	-12.38	-5425.8
01/31/1933	-6007.15	-1889.67	-929.17	-460.71	-229.27	-151.68	-88.88	-61.53	-42.39	-20.44	-12.36	-12.36	-6007.15
02/28/1933	-5425.35	-1827.68	-913.52	-459.75	-227.64	-150.39	-88.9	-62.59	-43.08	-20.25	-12.42	-12.42	-5425.35
03/31/1933	-5605.86	-1847.49	-918.06	-459.3	-227.84	-150.56	-89.06	-62.76	-43.15	-20.19	-12.41	-12.41	-5605.86
04/29/1933	-5606.35	-1847.91	-918.79	-459.9	-228.44	-150.77	-89.13	-62.88	-43.21	-20.16	-12.41	-12.41	-5606.35
05/31/1933	-5606.55	-1828.13	-919.14	-459.95	-229.1	-151.2	-89.5	-63.32	-43.42	-20.08	-12.43	-12.43	-5606.55
06/30/1933	-5425.7	-1828.11	-913.93	-460.63	-229.08	-151.29	-89.46	-63.06	-43.32	-20.21	-12.44	-12.44	-5425.7
07/31/1933	-5425.65	-1827.93	-913.93	-460.22	-228.9	-151.19	-89.41	-63.04	-43.3	-20.13	-12.26	-12.26	-5425.65
08/31/1933	-5606.62	-1848.38	-929.37	-460.63	-229.16	-151.44	-89.51	-62.96	-43.25	-20.26	-12.47	-12.47	-5606.62
09/30/1933	-5425.8	-1828.23	-924.12	-460.61	-229.25	-151.42	-89.52	-63.07	-43.33	-20.26	-12.49	-12.49	-5425.8
10/31/1933	-5606.57	-1828.04	-928.95	-460.67	-228.95	-151.19	-89.42	-63.07	-43.35	-20.26	-12.49	-12.49	-5606.57
11/29/1933	-5606.54	-1848.04	-928.65	-460.46	-228	-150.4	-89.47	-64.01	-43.45	-19.48	-12.75	-12.75	-5606.54
12/30/1933	-5425.46	-1868.46	-923.62	-459.03	-227.8	-150.36	-88.84	-62.61	-43.01	-20.11	-12.42	-12.42	-5425.46
01/31/1934	-6006.98	-1889.46	-928.43	-459.07	-227.86	-150.65	-89.15	-62.8	-43.07	-20.07	-12.45	-12.45	-6006.98
02/28/1934	-5425.7	-1828.09	-913.68	-460.07	-228.08	-150.9	-89.1	-62.57	-42.97	-20.19	-12.44	-12.44	-5425.7
03/31/1934	-5606.72	-1848.45	-919.07	-460.61	-228.83	-151.44	-89.48	-62.88	-43.18	-20.27	-12.51	-12.51	-5606.72
04/30/1934	-5425.85	-1828.23	-914.06	-460.84	-229.01	-151.67	-89.75	-63.17	-43.28	-20.16	-12.5	-12.5	-5425.85
05/31/1934	-5606.72	-1828.35	-919.14	-460.92	-229.28	-151.9	-89.96	-63.37	-43.47	-20.26	-12.49	-12.49	-5606.72
06/30/1934	-5425.85	-1828.26	-914.17	-460.88	-229.44	-152.1	-90.18	-63.6	-43.55	-20.23	-12.63	-12.63	-5425.85
07/31/1934	-5425.85	-1827.96	-914.23	-460.84	-229.46	-152.13	-90.21	-63.63	-43.56	-20.27	-12.75	-12.75	-5425.85
08/31/1934	-5606.72	-1848.35	-929.21	-460.66	-229.29	-151.86	-89.87	-63.26	-43.44	-20.41	-12.71	-12.71	-5606.72
09/29/1934	-5606.69	-1848.28	-929.19	-460.54	-228.51	-151.35	-89.57	-63.05	-43.39	-20.48	-12.68	-12.68	-5606.69
10/31/1934	-5606.98	-1828.12	-929.39	-460.64	-228.84	-151.67	-89.89	-63.37	-43.49	-20.39	-12.78	-12.78	-5606.98
11/30/1934	-5425.81	-1868.99	-924.16	-460.75	-228.86	-151.67	-89.86	-63.33	-43.7	-20.63	-12.56	-12.56	-5425.81

ESTIMATED ZERO BOND 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
12/31/1934	-5425.85	-1868.82	-929.59	-460.82	-229.23	-151.95	-90.07	-63.51	-43.74	-20.58	-12.63	-12.63	-5425.85
01/31/1935	-6009.07	-1891.72	-931.1	-460.79	-229.44	-152.11	-90.19	-63.62	-43.77	-20.57	-12.74	-12.74	-6009.07
02/28/1935	-5426.54	-1828.91	-914.76	-460.18	-229.54	-152.35	-90.49	-64.01	-43.87	-20.43	-12.88	-12.88	-5426.54
03/30/1935	-5429.02	-1831.39	-915.23	-459.66	-229.7	-152.48	-90.64	-64.21	-43.92	-20.46	-13.19	-13.19	-5429.02
04/30/1935	-5428.26	-1830.63	-916.48	-459.53	-229.74	-152.55	-90.64	-64.12	-43.88	-20.5	-13.17	-13.17	-5428.26
05/31/1935	-5609.61	-1831.08	-920.08	-459.58	-229.76	-152.5	-90.69	-64.3	-44.31	-20.81	-12.92	-12.92	-5609.61
06/29/1935	-5607.92	-1829.43	-920.28	-459.67	-229.95	-152.63	-90.74	-64.3	-44.38	-20.88	-12.83	-12.83	-5607.92
07/31/1935	-5427.03	-1829.4	-915.25	-459.51	-229.98	-152.65	-90.77	-64.34	-44.4	-20.88	-12.88	-12.88	-5427.03
08/31/1935	-5607.46	-1849.06	-924.86	-459.52	-229.66	-152.39	-90.55	-64.14	-44.09	-20.67	-13.01	-13.01	-5607.46
09/30/1935	-5426.9	-1829.26	-919.38	-459.44	-229.57	-152.26	-90.53	-64.25	-44.12	-20.6	-13.07	-13.07	-5426.9
10/30/1935	-5426.4	-1828.77	-919.61	-459.49	-229.69	-152.4	-90.68	-64.42	-44.31	-20.78	-13.18	-13.18	-5426.4
11/30/1935	-5426.25	-1848.72	-919.47	-459.59	-229.76	-152.43	-90.67	-64.38	-44.3	-20.85	-13.28	-13.28	-5426.25
12/31/1935	-5426.61	-1849.07	-924.87	-459.53	-229.87	-152.53	-90.71	-64.36	-44.38	-20.91	-13.08	-13.08	-5426.61
01/31/1936	-5800.8	-1869.6	-924.87	-459.62	-229.78	-152.5	-90.71	-64.35	-44.43	-20.98	-13.05	-13.05	-5800.8
02/29/1936	-5429.58	-1830.06	-914.68	-461.02	-230.23	-152.75	-90.82	-64.4	-44.44	-20.98	-13.05	-13.05	-5429.58
03/31/1936	-5609.28	-1850.88	-919.89	-461.07	-230.15	-152.74	-90.87	-64.48	-44.45	-20.96	-13.18	-13.18	-5609.28
04/30/1936	-5430.45	-1830.49	-914.82	-461.12	-230.16	-152.74	-90.86	-64.47	-44.4	-20.92	-13.22	-13.22	-5430.45
05/29/1936	-5427.54	-1829.91	-915.76	-460.82	-230.13	-152.74	-90.89	-64.51	-44.46	-20.94	-13.19	-13.19	-5427.54
06/30/1936	-5427.48	-1829.85	-915.7	-460.68	-230.01	-152.66	-90.85	-64.49	-44.38	-20.87	-13.24	-13.24	-5427.48
07/31/1936	-5427.61	-1829.98	-915.83	-460.74	-230	-152.67	-90.86	-64.49	-44.42	-20.91	-13.22	-13.22	-5427.61
08/31/1936	-5607.56	-1849.16	-930.07	-461.59	-229.88	-152.7	-90.93	-64.53	-44.41	-20.9	-13.25	-13.25	-5607.56
09/30/1936	-5427.63	-1830	-925.9	-460.89	-229.9	-152.65	-90.88	-64.51	-44.47	-20.96	-13.17	-13.17	-5427.63
10/31/1936	-5611.97	-1830.55	-929.92	-460.59	-229.86	-152.62	-90.88	-64.53	-44.47	-20.94	-13.19	-13.19	-5611.97
11/30/1936	-5429.13	-1872.13	-925.36	-460.99	-229.97	-152.8	-91	-64.54	-44.53	-21.05	-13.2	-13.2	-5429.13
12/31/1936	-5425.93	-1868.93	-929.3	-460.83	-229.68	-152.6	-90.91	-64.55	-44.47	-20.98	-13.33	-13.33	-5425.93
01/30/1937	-5799.99	-1868.79	-929.16	-460.69	-229.53	-152.49	-90.84	-64.5	-44.47	-21.04	-13.38	-13.38	-5799.99
02/27/1937	-6012.8	-1892.67	-929.96	-460.48	-229.53	-152.43	-90.77	-64.44	-44.42	-21.03	-13.43	-13.43	-6012.8
03/31/1937	-5606.49	-1848.09	-918.84	-460.26	-229.17	-151.98	-90.52	-64.2	-44.32	-20.98	-13.21	-13.21	-5606.49
04/30/1937	-5425.86	-1828.23	-914.08	-460.28	-229.29	-152.09	-90.5	-64.05	-44.13	-20.84	-13.14	-13.14	-5425.86
05/28/1937	-5425.93	-1828.3	-914.15	-460.32	-229.34	-152.12	-90.52	-64.06	-44.13	-20.83	-13.15	-13.15	-5425.93
06/30/1937	-5425.83	-1828.2	-913.81	-460.38	-229.21	-152.04	-90.48	-64.04	-44.14	-20.81	-13.54	-13.54	-5425.83
07/31/1937	-5428.68	-1829.4	-914.17	-460.32	-229.39	-152.2	-90.57	-64.06	-44.13	-20.81	-13.54	-13.54	-5428.68
08/31/1937	-5606.4	-1848	-928.91	-460.14	-229.09	-151.99	-90.42	-63.93	-44.04	-20.77	-13.51	-13.51	-5606.4
09/30/1937	-5425.97	-1828.34	-924.23	-460.39	-229.44	-152.16	-90.45	-63.91	-44.02	-20.77	-13.51	-13.51	-5425.97

ESTIMATED ZERO BOND 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	-5426.22	-1828.6	-924.49	-460.39	-229.55	-152.24	-90.54	-64.01	-44.12	-20.87	-13.6	-13.6	-5426.22
11/30/1937	-5426.61	-1869.61	-924.88	-460.44	-229.64	-152.31	-90.58	-64.03	-44.13	-20.87	-13.59	-13.59	-5426.61
12/31/1937	-5425.89	-1868.87	-929.22	-460.76	-229.76	-152.45	-90.67	-64.06	-44.13	-20.86	-13.59	-13.59	-5425.89
01/31/1938	-6007.22	-1889.82	-929.33	-460.89	-229.78	-152.48	-90.79	-64.28	-44.3	-20.85	-13.55	-13.55	-6007.22
02/28/1938	-5425.92	-1828.09	-914.51	-460.98	-229.58	-152.57	-90.88	-64.37	-44.34	-20.84	-13.54	-13.54	-5425.92
03/31/1938	-5606.74	-1848.23	-919.71	-460.83	-229.44	-152.54	-90.85	-64.29	-44.28	-20.85	-13.56	-13.56	-5606.74
04/30/1938	-5426	-1829.06	-915.44	-460.93	-229.73	-152.85	-91.04	-64.35	-44.32	-20.95	-13.64	-13.64	-5426
05/31/1938	-5606.87	-1829.81	-921.4	-461.17	-229.88	-152.96	-91.09	-64.33	-44.32	-21.02	-13.7	-13.7	-5606.87
06/30/1938	-5425.99	-1829.34	-915.98	-461.34	-229.99	-153.02	-91.25	-64.64	-44.55	-21	-13.66	-13.66	-5425.99
07/30/1938	-5425.89	-1829.51	-916.26	-461.03	-229.91	-152.95	-91.22	-64.65	-44.6	-21.1	-13.75	-13.75	-5425.89
08/31/1938	-5606.76	-1850.52	-932.1	-460.96	-229.79	-152.86	-91.17	-64.62	-44.59	-21.1	-13.75	-13.75	-5606.76
09/30/1938	-5425.95	-1829.31	-925.97	-461.16	-229.82	-152.89	-91.04	-64.31	-44.33	-21.07	-13.75	-13.75	-5425.95
10/31/1938	-5606.87	-1830.72	-932.28	-461.36	-229.9	-152.94	-91.11	-64.42	-44.41	-21.07	-13.74	-13.74	-5606.87
11/30/1938	-5426	-1870.62	-926.93	-461.29	-229.99	-152.93	-91.08	-64.43	-44.42	-21.07	-13.74	-13.74	-5426
12/31/1938	-5426.08	-1870.22	-931.55	-461.38	-230.02	-153	-91.18	-64.55	-44.54	-21.15	-13.8	-13.8	-5426.08
01/31/1939	-6007.37	-1891.99	-932.79	-461.34	-230.08	-153.02	-91.18	-64.54	-44.57	-21.28	-13.92	-13.92	-6007.37
02/28/1939	-5426.1	-1830.52	-917.73	-460.3	-230.13	-153.06	-91.16	-64.56	-44.58	-21.28	-13.92	-13.92	-5426.1
03/31/1939	-5606.84	-1849.82	-921.71	-460.27	-230.16	-153.17	-91.27	-64.62	-44.61	-21.27	-13.91	-13.91	-5606.84
04/29/1939	-5606.78	-1850.29	-922.49	-460.04	-230.17	-153.17	-91.27	-64.62	-44.61	-21.28	-13.91	-13.91	-5606.78
05/31/1939	-5606.86	-1830.52	-922.42	-459.92	-230.14	-153.24	-91.35	-64.68	-44.65	-21.29	-13.91	-13.91	-5606.86
06/30/1939	-5426.01	-1829.4	-916.08	-459.76	-229.98	-153.19	-91.36	-64.68	-44.65	-21.29	-13.92	-13.92	-5426.01
07/31/1939	-5426	-1829.76	-916.62	-459.53	-230.07	-153.23	-91.37	-64.69	-44.65	-21.29	-13.91	-13.91	-5426
08/31/1939	-5606.77	-1849.35	-925.72	-459.34	-229.78	-152.97	-91.19	-64.59	-44.62	-21.32	-13.95	-13.95	-5606.77
09/30/1939	-5425.92	-1828.87	-919.32	-459.55	-229.89	-152.62	-90.64	-64.07	-44.12	-20.84	-13.57	-13.57	-5425.92
10/31/1939	-5606.77	-1829.99	-925.07	-460.02	-229.98	-153.04	-90.97	-64.11	-44.57	-20.68	-11.12	-11.12	-5606.77
11/30/1939	-5425.96	-1851.66	-920.53	-460.03	-230.12	-153.07	-91.15	-64.53	-44.96	-20.88	-11.25	-11.25	-5425.96
12/30/1939	-5426	-1852.4	-921.08	-460.48	-230.26	-153.26	-91.31	-64.62	-45.01	-20.91	-11.27	-11.27	-5426
01/31/1940	-5800.21	-1873.02	-926.05	-460.32	-230.24	-153.21	-91.25	-64.54	-44.95	-20.88	-11.25	-11.25	-5800.21
02/29/1940	-5426.07	-1832.46	-916.03	-461.58	-230.55	-153.4	-91.34	-64.57	-44.96	-20.87	-11.25	-11.25	-5426.07
03/30/1940	-5426.1	-1829.61	-915.02	-461.48	-230.51	-153.42	-91.42	-64.7	-45.07	-20.93	-11.29	-11.29	-5426.1
04/30/1940	-5426.1	-1828.93	-914.74	-461.41	-230.44	-153.37	-91.4	-64.71	-45.09	-20.94	-11.29	-11.29	-5426.1
05/31/1940	-5606.74	-1829.47	-919.54	-460.84	-230.29	-152.99	-90.98	-64.36	-44.82	-20.8	-11.2	-11.2	-5606.74
06/29/1940	-5606.75	-1829.03	-920.47	-461.06	-230.36	-153.16	-91.15	-64.47	-44.9	-20.84	-11.23	-11.23	-5606.75
07/31/1940	-5426	-1829.43	-915.6	-460.87	-230.39	-153.19	-91.19	-64.53	-44.95	-20.87	-11.25	-11.25	-5426

ESTIMATED ZERO BOND 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	-5606.91	-1850.07	-931.86	-461.04	-230.49	-153.26	-91.23	-64.55	-44.96	-20.87	-11.25	-11.25	-5606.91
09/30/1940	-5426.08	-1831.23	-925.7	-461.61	-230.45	-153.3	-91.22	-64.44	-44.85	-20.82	-11.21	-11.21	-5426.08
10/31/1940	-5606.87	-1830.79	-930.73	-461.71	-230.56	-153.29	-91.29	-64.68	-44.7	-21.41	-14.02	-14.02	-5606.87
11/30/1940	-5426.08	-1874.02	-926.32	-461.5	-230.58	-153.37	-91.32	-64.63	-45.02	-20.9	-11.27	-11.27	-5426.08
12/31/1940	-5426.1	-1874.87	-931.66	-461.41	-230.56	-153.35	-91.33	-64.65	-45.04	-20.91	-11.28	-11.28	-5426.1
01/31/1941	-6007.37	-1893.12	-930.85	-461.58	-230.49	-153.24	-91.28	-64.68	-45.09	-20.94	-11.29	-11.29	-6007.37
02/28/1941	-5425.89	-1831.63	-915.59	-461.34	-230.38	-153.07	-91.19	-64.46	-44.9	-20.84	-11.23	-11.23	-5425.89
03/31/1941	-5607.07	-1849.06	-919.9	-461.64	-230.33	-153.06	-91.3	-64.69	-45.12	-20.95	-11.3	-11.3	-5607.07
04/30/1941	-5426.95	-1829.32	-915.17	-461.85	-230.27	-153.05	-91.32	-64.72	-44.79	-21.52	-14.12	-14.12	-5426.95
05/31/1941	-5608.41	-1829.91	-920.76	-462.44	-230.36	-153.1	-91.34	-64.73	-44.79	-21.52	-14.11	-14.11	-5608.41
06/30/1941	-5427.75	-1830.12	-915.97	-462.65	-230.27	-153.15	-91.43	-64.78	-44.83	-21.52	-14.11	-14.11	-5427.75
07/31/1941	-5428.04	-1830.41	-916.26	-462.94	-230.23	-153.15	-91.44	-64.78	-44.82	-21.51	-14.1	-14.1	-5428.04
08/30/1941	-5427.84	-1830.21	-926.11	-462.74	-230.29	-153.16	-91.43	-64.78	-44.82	-21.51	-14.1	-14.1	-5427.84
09/30/1941	-5433.05	-1835.24	-927.1	-461.66	-230.35	-153.15	-91.4	-64.76	-44.81	-21.52	-14.11	-14.11	-5433.05
10/31/1941	-5607.42	-1828.93	-929.93	-461.46	-230.04	-153.06	-91.43	-64.81	-44.87	-21.58	-14.16	-14.16	-5607.42
11/29/1941	-5606.89	-1848.49	-929.4	-460.93	-229.99	-152.86	-91.23	-64.69	-44.81	-21.6	-14.19	-14.19	-5606.89
12/31/1941	-5426.32	-1869.31	-929.26	-460.57	-229.99	-152.81	-91.13	-64.56	-44.66	-21.42	-14.04	-14.04	-5426.32

ESTIMATED ZERO BOND 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	-6007.13	-1889.67	-928.89	-460.34	-229.89	-152.64	-90.75	-63.97	-43.94	-20.56	-12.73	-12.73	-6007.13
02/28/1942	-5425.82	-1828.05	-913.78	-460.4	-229.63	-152.66	-90.71	-63.88	-43.86	-20.54	-12.75	-12.75	-5425.82
03/31/1942	-5606.69	-1848.15	-918.82	-460.46	-229.32	-152.56	-90.74	-63.96	-43.95	-20.6	-12.77	-12.77	-5606.69
04/30/1942	-5425.73	-1827.93	-913.69	-460.33	-229.23	-152.47	-90.67	-63.89	-43.88	-20.56	-12.76	-12.76	-5425.73
05/29/1942	-5425.67	-1827.93	-913.7	-460.34	-229.22	-152.46	-90.67	-63.9	-43.92	-20.61	-12.76	-12.76	-5425.67
06/30/1942	-5425.65	-1827.79	-913.36	-460.7	-229.26	-152.4	-90.6	-63.89	-43.91	-20.59	-12.77	-12.77	-5425.65
07/31/1942	-5425.6	-1827.86	-913.56	-460.87	-229.26	-152.34	-90.52	-63.81	-43.88	-20.61	-12.75	-12.75	-5425.6
08/31/1942	-5606.45	-1847.96	-928.78	-460.07	-229	-152.26	-90.53	-63.82	-43.88	-20.61	-12.77	-12.77	-5606.45
09/30/1942	-5425.58	-1827.92	-923.62	-459.95	-229.07	-152.21	-90.46	-63.8	-43.87	-20.6	-12.77	-12.77	-5425.58
10/31/1942	-5606.45	-1827.93	-928.7	-460.02	-229.12	-152.21	-90.45	-63.8	-43.89	-20.61	-12.75	-12.75	-5606.45
11/30/1942	-5425.62	-1868.55	-923.62	-460	-229.13	-152.2	-90.43	-63.81	-43.87	-20.57	-12.73	-12.73	-5425.62
12/31/1942	-5425.58	-1868.57	-928.7	-459.98	-229.12	-152.18	-90.43	-63.83	-43.9	-20.58	-12.74	-12.74	-5425.58
01/30/1943	-5799.8	-1868.49	-928.77	-460.07	-229.24	-152.29	-90.5	-63.87	-43.94	-20.6	-12.71	-12.71	-5799.8
02/27/1943	-6006.97	-1889.48	-928.71	-460.07	-229.25	-152.27	-90.47	-63.84	-43.93	-20.6	-12.68	-12.68	-6006.97
03/31/1943	-5606.46	-1847.94	-918.58	-458.74	-229.25	-152.27	-90.41	-63.81	-43.91	-20.6	-12.67	-12.67	-5606.46
04/30/1943	-5425.62	-1827.83	-913.48	-458.75	-229.14	-152.2	-90.4	-63.83	-43.93	-20.61	-12.69	-12.69	-5425.62
05/29/1943	-5425.62	-1827.94	-913.48	-458.79	-229.27	-152.28	-90.46	-63.91	-43.98	-20.62	-12.71	-12.71	-5425.62
06/30/1943	-5425.6	-1827.92	-913.55	-458.84	-229.39	-152.34	-90.48	-63.92	-43.99	-20.62	-12.69	-12.69	-5425.6
07/31/1943	-5425.6	-1827.92	-913.53	-458.82	-229.38	-152.34	-90.47	-63.89	-43.97	-20.61	-12.66	-12.66	-5425.6
08/31/1943	-5606.48	-1847.98	-923.49	-458.75	-229.34	-152.31	-90.44	-63.87	-43.95	-20.61	-12.67	-12.67	-5606.48
09/30/1943	-5425.6	-1827.78	-918.42	-458.78	-229.28	-152.26	-90.44	-63.9	-43.92	-20.57	-13.35	-13.35	-5425.6
10/30/1943	-5425.6	-1827.89	-918.43	-458.77	-229.25	-152.25	-90.43	-63.87	-43.89	-20.56	-13.34	-13.34	-5425.6
11/30/1943	-5425.61	-1848.01	-918.42	-458.78	-229.24	-152.24	-90.41	-63.84	-43.87	-20.54	-13.33	-13.33	-5425.61
12/31/1943	-5425.61	-1847.97	-923.52	-458.79	-229.22	-152.26	-90.43	-63.85	-43.86	-20.54	-13.32	-13.32	-5425.61
01/31/1944	-5799.8	-1868.43	-923.5	-458.73	-229.18	-152.23	-90.41	-63.85	-43.87	-20.53	-13.31	-13.31	-5799.8
02/29/1944	-5425.64	-1827.94	-913.41	-460.02	-229.48	-152.36	-90.48	-63.91	-43.91	-20.54	-13.32	-13.32	-5425.64
03/31/1944	-5606.48	-1847.97	-918.37	-460.02	-229.5	-152.36	-90.47	-63.91	-43.91	-20.55	-13.33	-13.33	-5606.48
04/29/1944	-5606.51	-1847.99	-918.44	-460.05	-229.48	-152.38	-90.49	-63.9	-43.9	-20.54	-13.32	-13.32	-5606.51
05/31/1944	-5606.5	-1827.75	-918.41	-460.04	-229.48	-152.37	-90.48	-63.89	-43.9	-20.54	-13.32	-13.32	-5606.5
06/30/1944	-5425.61	-1827.78	-913.35	-460.07	-229.46	-152.35	-90.46	-63.88	-43.89	-20.54	-13.32	-13.32	-5425.61
07/31/1944	-5425.64	-1827.77	-913.45	-460.07	-229.49	-152.37	-90.48	-63.89	-43.89	-20.54	-13.32	-13.32	-5425.64
08/31/1944	-5606.51	-1848.01	-928.61	-460.08	-229.47	-152.37	-90.49	-63.92	-43.92	-20.54	-13.32	-13.32	-5606.51
09/30/1944	-5425.6	-1827.87	-923.42	-460.06	-229.46	-152.35	-90.48	-63.9	-43.9	-20.54	-13.32	-13.32	-5425.6
10/31/1944	-5606.5	-1827.85	-928.52	-460.06	-229.39	-152.32	-90.46	-63.88	-43.89	-20.54	-13.32	-13.32	-5606.5
11/30/1944	-5425.64	-1868.43	-923.39	-460.04	-229.36	-152.29	-90.45	-63.88	-43.89	-20.54	-13.32	-13.32	-5425.64

ESTIMATED ZERO BOND 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	-5425.64	-1868.48	-923.38	-460.01	-229.37	-152.29	-90.44	-63.88	-43.89	-20.55	-13.33	-13.33	-5425.64
01/31/1945	-6006.99	-1889.45	-928.59	-460.05	-229.45	-152.38	-90.55	-64.02	-44.01	-20.61	-13.37	-13.37	-6006.99
02/28/1945	-5425.64	-1827.9	-913.47	-460.05	-229.51	-152.3	-90.61	-64.05	-44.06	-20.64	-13.39	-13.39	-5425.64
03/31/1945	-5606.47	-1848.01	-918.49	-460.06	-229.51	-152.29	-90.63	-64.1	-44.1	-20.64	-13.38	-13.38	-5606.47
04/30/1945	-5425.64	-1827.83	-913.41	-460.03	-229.45	-152.33	-90.73	-64.22	-44.21	-20.72	-13.45	-13.45	-5425.64
05/31/1945	-5606.5	-1827.83	-918.38	-460	-229.39	-152.26	-90.68	-64.21	-44.22	-20.74	-13.47	-13.47	-5606.5
06/30/1945	-5425.6	-1827.73	-913.36	-460.01	-229.37	-152.31	-90.75	-64.26	-44.28	-20.82	-13.54	-13.54	-5425.6
07/31/1945	-5425.63	-1827.88	-913.29	-460	-229.31	-152.25	-90.7	-64.22	-44.23	-20.77	-13.49	-13.49	-5425.63
08/31/1945	-5606.48	-1847.87	-928.46	-459.99	-229.38	-152.25	-90.7	-64.24	-44.25	-20.77	-13.49	-13.49	-5606.48
09/29/1945	-5606.47	-1847.82	-928.44	-459.97	-229.39	-152.25	-90.7	-64.26	-44.27	-20.79	-13.5	-13.5	-5606.47
10/31/1945	-5606.5	-1827.77	-928.45	-459.99	-229.41	-152.3	-90.76	-64.32	-44.33	-20.84	-13.54	-13.54	-5606.5
11/30/1945	-5425.61	-1868.3	-923.34	-459.96	-229.39	-152.34	-90.83	-64.39	-44.39	-20.89	-13.58	-13.58	-5425.61
12/31/1945	-5425.59	-1868.43	-928.44	-459.99	-229.42	-152.37	-90.89	-64.47	-44.49	-21.01	-13.68	-13.68	-5425.59
01/31/1946	-6006.96	-1889.48	-928.52	-460.04	-229.53	-152.48	-90.97	-64.52	-44.52	-21.01	-13.68	-13.68	-6006.96
02/28/1946	-5425.6	-1827.85	-913.44	-460.06	-229.31	-152.57	-91.02	-64.52	-44.5	-21.02	-13.68	-13.68	-5425.6
03/30/1946	-5425.59	-1827.74	-913.33	-460.03	-229.18	-152.44	-90.95	-64.52	-44.52	-21.01	-13.67	-13.67	-5425.59
04/30/1946	-5425.59	-1827.76	-913.3	-459.97	-229.1	-152.34	-90.82	-64.36	-44.37	-20.91	-13.6	-13.6	-5425.59
05/31/1946	-5606.45	-1827.74	-918.28	-460	-229.1	-152.33	-90.8	-64.34	-44.34	-20.89	-13.59	-13.59	-5606.45
06/28/1946	-5606.47	-1827.63	-918.28	-460	-229.14	-152.4	-90.86	-64.38	-44.38	-20.92	-13.61	-13.61	-5606.47
07/31/1946	-5425.6	-1827.69	-913.28	-460	-229.12	-152.37	-90.83	-64.36	-44.35	-20.88	-13.57	-13.57	-5425.6
08/30/1946	-5425.6	-1827.73	-923.32	-459.96	-229.07	-152.32	-90.76	-64.28	-44.27	-20.8	-13.51	-13.51	-5425.6
09/30/1946	-5425.59	-1827.72	-923.3	-459.97	-228.98	-152.22	-90.68	-64.21	-44.22	-20.78	-13.5	-13.5	-5425.59
10/31/1946	-5606.47	-1827.74	-928.42	-459.99	-229.06	-152.27	-90.7	-64.21	-44.23	-20.82	-13.54	-13.54	-5606.47
11/30/1946	-5425.59	-1868.23	-923.33	-459.97	-229	-152.2	-90.61	-64.11	-44.15	-20.78	-13.51	-13.51	-5425.59
12/31/1946	-5425.61	-1868.47	-928.46	-459.97	-229.07	-152.27	-90.7	-64.21	-44.24	-20.85	-13.56	-13.56	-5425.61
01/31/1947	-6006.96	-1889.51	-928.47	-459.97	-229.12	-152.3	-90.73	-64.27	-44.28	-20.83	-13.54	-13.54	-6006.96
02/28/1947	-5425.6	-1827.75	-913.32	-458.71	-229.13	-152.29	-90.68	-64.29	-44.3	-20.83	-13.54	-13.54	-5425.6
03/31/1947	-5606.46	-1847.8	-918.37	-458.74	-229.13	-152.31	-90.7	-64.3	-44.3	-20.83	-13.53	-13.53	-5606.46
04/30/1947	-5425.6	-1827.71	-913.3	-458.69	-229.03	-152.24	-90.66	-64.28	-44.27	-20.79	-13.5	-13.5	-5425.6
05/29/1947	-5425.6	-1827.62	-913.28	-458.7	-229	-152.24	-90.67	-64.29	-44.29	-20.8	-13.5	-13.5	-5425.6
06/30/1947	-5425.59	-1827.71	-913.29	-458.71	-229	-152.22	-90.64	-64.25	-44.26	-20.79	-13.51	-13.51	-5425.59
07/31/1947	-5425.6	-1827.55	-913.33	-458.69	-228.98	-152.19	-90.63	-64.27	-44.28	-20.82	-13.53	-13.53	-5425.6
08/29/1947	-5425.61	-1827.56	-913.32	-458.69	-229	-152.25	-90.69	-64.31	-44.32	-20.86	-13.56	-13.56	-5425.61
09/30/1947	-5425.18	-1827.48	-918.34	-458.62	-228.95	-152.2	-90.65	-64.27	-44.28	-20.82	-13.53	-13.53	-5425.18

ESTIMATED ZERO BOND 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	-5606.01	-1827.45	-923.34	-458.58	-228.82	-152.06	-90.51	-64.15	-44.2	-20.79	-13.51	-13.51	-5606.01
11/28/1947	-5605.97	-1827.4	-923.28	-458.53	-228.79	-152	-90.42	-64.02	-44.06	-20.66	-13.41	-13.41	-5605.97
12/31/1947	-5425.06	-1847.49	-923.26	-458.5	-228.83	-151.96	-90.25	-63.75	-43.81	-20.54	-13.33	-13.33	-5425.06
01/30/1948	-5605.86	-1847.43	-923.24	-458.47	-228.83	-151.96	-90.24	-63.75	-43.81	-20.54	-13.32	-13.32	-5605.86
02/27/1948	-5799.18	-1867.97	-923.21	-458.47	-228.85	-151.96	-90.26	-63.79	-43.85	-20.55	-13.33	-13.33	-5799.18
03/31/1948	-5605.82	-1847.42	-918.12	-459.72	-229.15	-152.1	-90.33	-63.85	-43.89	-20.55	-13.34	-13.34	-5605.82
04/30/1948	-5424.94	-1827.32	-913.11	-459.71	-229.13	-152.1	-90.36	-63.88	-43.92	-20.57	-13.34	-13.34	-5424.94
05/28/1948	-5424.94	-1827.31	-913.14	-459.72	-229.21	-152.2	-90.48	-64.02	-44.04	-20.64	-13.39	-13.39	-5424.94
06/30/1948	-5424.94	-1827.32	-913.13	-459.73	-229.09	-152.12	-90.38	-63.88	-43.92	-20.58	-13.35	-13.35	-5424.94
07/30/1948	-5424.94	-1827.31	-913.14	-459.7	-229.11	-152.07	-90.3	-63.81	-43.87	-20.55	-13.34	-13.34	-5424.94
08/31/1948	-5605.75	-1847.45	-928.17	-459.67	-229.09	-152.02	-90.25	-63.78	-43.84	-20.54	-13.33	-13.33	-5605.75
09/30/1948	-5425.36	-1827.24	-923.06	-459.6	-229	-152	-90.23	-63.71	-43.81	-20.6	-13.39	-13.39	-5425.36
10/29/1948	-5424.87	-1827.32	-923.06	-459.56	-228.96	-151.96	-90.2	-63.69	-43.78	-20.57	-13.37	-13.37	-5424.87
11/30/1948	-5425.3	-1867.85	-923.09	-459.59	-229	-152.02	-90.26	-63.74	-43.84	-20.63	-13.41	-13.41	-5425.3
12/31/1948	-5424.82	-1867.81	-928.13	-459.61	-229	-152.07	-90.33	-63.8	-43.88	-20.65	-13.43	-13.43	-5424.82
01/31/1949	-6006.14	-1888.77	-928.11	-459.61	-228.99	-152.13	-90.4	-63.86	-43.93	-20.7	-13.46	-13.46	-6006.14
02/28/1949	-5424.81	-1827.15	-912.96	-459.62	-228.98	-151.98	-90.39	-63.83	-43.94	-20.71	-13.48	-13.48	-5424.81
03/31/1949	-5605.66	-1847.22	-917.96	-459.61	-228.95	-152.02	-90.47	-63.9	-44	-20.75	-13.51	-13.51	-5605.66
04/29/1949	-5605.67	-1847.23	-917.96	-459.66	-228.99	-152.04	-90.48	-63.9	-44	-20.76	-13.51	-13.51	-5605.67
05/31/1949	-5605.67	-1827.15	-917.97	-459.64	-228.98	-152.09	-90.53	-63.93	-44.01	-20.75	-13.5	-13.5	-5605.67
06/30/1949	-5424.87	-1827.23	-913.05	-459.73	-229.05	-152.24	-90.69	-64.06	-44.12	-20.83	-13.56	-13.56	-5424.87
07/29/1949	-5424.93	-1827.3	-913.12	-459.81	-229.11	-152.3	-90.74	-64.09	-44.14	-20.83	-13.56	-13.56	-5424.93
08/31/1949	-5605.77	-1847.36	-928.25	-459.8	-229.16	-152.33	-90.78	-64.14	-44.2	-20.9	-13.62	-13.62	-5605.77
09/30/1949	-5424.89	-1827.26	-923.12	-459.76	-229.13	-152.34	-90.78	-64.13	-44.17	-20.86	-13.58	-13.58	-5424.89
10/31/1949	-5605.77	-1827.24	-928.22	-459.77	-229.13	-152.34	-90.79	-64.13	-44.17	-20.85	-13.58	-13.58	-5605.77
11/30/1949	-5424.89	-1867.84	-923.09	-459.75	-229.1	-152.35	-90.8	-64.14	-44.17	-20.85	-13.57	-13.57	-5424.89
12/30/1949	-5424.88	-1867.85	-923.1	-459.75	-229.16	-152.28	-90.72	-64.1	-44.17	-20.9	-13.62	-13.62	-5424.88
01/31/1950	-6006.18	-1888.81	-928.19	-459.73	-229.11	-152.21	-90.64	-64.03	-44.11	-20.84	-13.57	-13.57	-6006.18
02/28/1950	-5424.8	-1827.16	-913.03	-459.69	-228.79	-152.19	-90.62	-64.03	-44.09	-20.84	-13.57	-13.57	-5424.8
03/31/1950	-5605.68	-1847.24	-918	-459.72	-228.73	-152.16	-90.61	-64.02	-44.08	-20.84	-13.57	-13.57	-5605.68
04/28/1950	-5605.65	-1847.22	-917.97	-459.69	-228.71	-152.12	-90.58	-63.99	-44.07	-20.84	-13.57	-13.57	-5605.65
05/31/1950	-5605.63	-1827.14	-917.98	-459.63	-228.75	-152.15	-90.59	-64.01	-44.08	-20.85	-13.58	-13.58	-5605.63
06/30/1950	-5424.77	-1827.16	-912.96	-459.62	-228.72	-152.11	-90.55	-63.97	-44.04	-20.81	-13.55	-13.55	-5424.77
07/31/1950	-5424.78	-1827.13	-912.98	-459.6	-228.74	-152.15	-90.59	-64	-44.07	-20.83	-13.57	-13.57	-5424.78

ESTIMATED ZERO BOND 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	-5605.51	-1847.09	-928.03	-459.51	-228.63	-152.09	-90.57	-63.98	-44.06	-20.82	-13.56	-13.56	-5605.51
09/29/1950	-5605.49	-1847.07	-927.97	-459.49	-228.52	-151.99	-90.48	-63.91	-43.99	-20.76	-13.51	-13.51	-5605.49
10/31/1950	-5605.51	-1826.95	-927.91	-459.35	-228.43	-151.89	-90.38	-63.83	-43.92	-20.71	-13.47	-13.47	-5605.51
11/30/1950	-5424.58	-1867.54	-922.79	-459.34	-228.48	-151.9	-90.38	-63.83	-43.93	-20.72	-13.48	-13.48	-5424.58
12/29/1950	-5424.59	-1867.62	-922.74	-459.3	-228.52	-151.87	-90.34	-63.8	-43.92	-20.72	-13.49	-13.49	-5424.59
01/31/1951	-6005.94	-1888.55	-927.88	-459.24	-228.48	-151.84	-90.33	-63.81	-43.94	-20.76	-13.51	-13.51	-6005.94
02/28/1951	-5424.62	-1826.89	-912.74	-457.95	-228.46	-151.83	-90.25	-63.76	-43.88	-20.68	-13.45	-13.45	-5424.62
03/30/1951	-5424.44	-1826.78	-912.7	-457.59	-228.09	-151.48	-89.97	-63.55	-43.7	-20.56	-13.36	-13.36	-5424.44
04/30/1951	-5424.56	-1826.97	-912.52	-457.8	-228.04	-151.51	-90	-63.53	-43.66	-20.49	-13.3	-13.3	-5424.56
05/31/1951	-5605.38	-1826.78	-917.46	-457.64	-228.04	-151.47	-89.95	-63.49	-43.63	-20.46	-13.28	-13.28	-5605.38
06/29/1951	-5605.31	-1826.81	-917.72	-457.75	-228.08	-151.51	-89.96	-63.48	-43.6	-20.41	-13.23	-13.23	-5605.31
07/31/1951	-5424.4	-1826.79	-912.65	-457.79	-228.18	-151.59	-90.03	-63.55	-43.67	-20.48	-13.29	-13.29	-5424.4
08/31/1951	-5605.23	-1846.76	-922.48	-457.82	-228.33	-151.67	-90.07	-63.58	-43.69	-20.48	-13.29	-13.29	-5605.23
09/28/1951	-5605.18	-1846.78	-922.44	-457.74	-228.23	-151.5	-89.91	-63.47	-43.62	-20.46	-13.28	-13.28	-5605.18
10/31/1951	-5605.43	-1826.7	-922.63	-457.79	-228.21	-151.51	-89.93	-63.48	-43.62	-20.45	-13.27	-13.27	-5605.43
11/30/1951	-5424.54	-1846.76	-917.62	-457.77	-228.16	-151.5	-89.9	-63.43	-43.54	-20.36	-13.19	-13.19	-5424.54
12/31/1951	-5424.22	-1846.62	-922.52	-457.62	-228.01	-151.36	-89.81	-63.36	-43.51	-20.35	-13.19	-13.19	-5424.22
01/31/1952	-5798.8	-1867.37	-922.51	-457.84	-228.19	-151.49	-89.89	-63.42	-43.54	-20.36	-13.2	-13.2	-5798.8
02/29/1952	-5424.67	-1826.67	-912.49	-459.11	-228.45	-151.57	-89.88	-63.41	-43.53	-20.35	-13.19	-13.19	-5424.67
03/31/1952	-5605.36	-1846.9	-917.64	-459.18	-228.69	-151.7	-89.94	-63.44	-43.55	-20.35	-13.19	-13.19	-5605.36
04/30/1952	-5424.31	-1826.67	-912.67	-459.19	-228.69	-151.75	-90.02	-63.53	-43.64	-20.45	-13.27	-13.27	-5424.31
05/29/1952	-5424.27	-1826.64	-912.59	-459.13	-228.63	-151.71	-90	-63.5	-43.61	-20.42	-13.25	-13.25	-5424.27
06/30/1952	-5424.16	-1826.53	-912.38	-458.98	-228.53	-151.59	-89.89	-63.43	-43.57	-20.41	-13.24	-13.24	-5424.16
07/31/1952	-5424.11	-1826.46	-912.3	-458.9	-228.39	-151.5	-89.84	-63.4	-43.55	-20.4	-13.24	-13.24	-5424.11
08/29/1952	-5424.25	-1826.46	-917.23	-458.85	-228.27	-151.44	-89.8	-63.34	-43.48	-20.32	-13.17	-13.17	-5424.25
09/30/1952	-5424.39	-1826.55	-922.39	-458.84	-228.24	-151.42	-89.77	-63.28	-43.4	-20.22	-13.08	-13.08	-5424.39
10/31/1952	-5605.29	-1826.5	-927.54	-458.93	-228.27	-151.45	-89.81	-63.35	-43.49	-20.32	-13.17	-13.17	-5605.29
11/28/1952	-5605.08	-1826.36	-927.29	-458.78	-228.18	-151.39	-89.77	-63.32	-43.47	-20.31	-13.17	-13.17	-5605.08
12/31/1952	-5423.97	-1866.9	-927.36	-458.81	-228.15	-151.37	-89.75	-63.28	-43.41	-20.25	-13.11	-13.11	-5423.97
01/30/1953	-5798.3	-1867.04	-927.4	-458.85	-228.21	-151.4	-89.77	-63.32	-43.42	-20.19	-13.05	-13.05	-5798.3
02/27/1953	-6005.28	-1887.89	-927.37	-458.73	-228.15	-151.34	-89.71	-63.26	-43.35	-20.1	-12.99	-12.99	-6005.28
03/31/1953	-5604.8	-1846.35	-917.15	-458.68	-228.17	-151.15	-89.64	-63.17	-43.29	-20.03	-12.93	-12.93	-5604.8
04/30/1953	-5423.83	-1826.03	-911.89	-458.39	-227.94	-151	-89.47	-62.92	-43.1	-19.99	-11.95	-11.95	-5423.83
05/29/1953	-5424.06	-1826	-911.76	-458.19	-227.76	-150.78	-89.19	-62.61	-42.84	-19.88	-11.98	-11.98	-5424.06

ESTIMATED ZERO BOND 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	-5424.24	-1826.31	-912.03	-458.46	-227.96	-150.96	-89.41	-62.88	-43.07	-19.99	-11.94	-11.94	-5424.24
07/31/1953	-5424.01	-1826.23	-912.07	-458.46	-228.14	-151.01	-89.45	-62.98	-43.11	-19.87	-12.13	-12.13	-5424.01
08/31/1953	-5605.01	-1846.51	-927.2	-458.46	-228.25	-150.99	-89.38	-62.94	-43.09	-19.87	-12.13	-12.13	-5605.01
09/30/1953	-5424.6	-1826.8	-922.49	-458.82	-228.26	-151.15	-89.69	-63.32	-43.41	-20	-12.21	-12.21	-5424.6
10/30/1953	-5425	-1827.09	-922.9	-459.12	-228.5	-151.33	-89.79	-63.37	-43.45	-20.06	-12.26	-12.26	-5425
11/30/1953	-5424.73	-1867.45	-922.73	-459.29	-228.43	-151.31	-89.73	-63.24	-43.34	-20.05	-12.28	-12.28	-5424.73
12/31/1953	-5424.66	-1867.55	-928.1	-459.26	-228.52	-151.46	-89.93	-63.47	-43.53	-20.15	-12.36	-12.36	-5424.66
01/29/1954	-5605.84	-1868.14	-928.58	-459.69	-228.91	-151.76	-90.09	-63.52	-43.57	-20.24	-12.46	-12.46	-5605.84
02/26/1954	-6006.44	-1889.06	-928.64	-459.74	-229.12	-151.91	-90.14	-63.48	-43.56	-20.34	-12.6	-12.6	-6006.44
03/31/1954	-5605.82	-1847.37	-918.55	-459.81	-228.77	-151.92	-90.18	-63.54	-43.59	-20.28	-12.45	-12.45	-5605.82
04/30/1954	-5425.28	-1827.69	-914.11	-459.98	-228.9	-152.03	-90.31	-63.69	-43.68	-20.3	-12.53	-12.53	-5425.28
05/28/1954	-5425.34	-1827.69	-913.62	-460.06	-228.8	-151.85	-90.1	-63.49	-43.56	-20.33	-12.58	-12.58	-5425.34
06/30/1954	-5425.34	-1827.71	-913.57	-460.24	-228.99	-152.03	-90.23	-63.58	-43.61	-20.31	-13.14	-13.14	-5425.34
07/30/1954	-5425.29	-1827.64	-913.49	-460.43	-228.92	-151.97	-90.2	-63.57	-43.63	-20.4	-13.22	-13.22	-5425.29
08/31/1954	-5605.76	-1847.42	-928.46	-460.18	-228.86	-151.93	-90.16	-63.51	-43.59	-20.38	-13.21	-13.21	-5605.76
09/30/1954	-5425.07	-1827.34	-923.35	-460.02	-228.67	-151.79	-90.08	-63.48	-43.59	-20.38	-13.19	-13.19	-5425.07
10/29/1954	-5425.17	-1827.33	-923.21	-459.85	-228.55	-151.68	-90.01	-63.45	-43.59	-20.37	-13.17	-13.17	-5425.17
11/30/1954	-5425.05	-1867.91	-923.22	-459.88	-228.54	-151.69	-90.03	-63.47	-43.58	-20.33	-13.14	-13.14	-5425.05
12/31/1954	-5424.98	-1867.93	-928.45	-459.67	-228.48	-151.61	-89.96	-63.43	-43.55	-20.35	-13.18	-13.18	-5424.98
01/31/1955	-6006.18	-1888.82	-928.19	-459.51	-228.28	-151.47	-89.86	-63.33	-43.44	-20.23	-13.09	-13.09	-6006.18
02/28/1955	-5424.85	-1826.98	-912.84	-457.86	-227.94	-151.21	-89.63	-63.22	-43.37	-20.15	-12.34	-12.34	-5424.85
03/31/1955	-5605.52	-1847.01	-917.75	-458.08	-228	-151.22	-89.63	-63.22	-43.38	-20.19	-12.36	-12.36	-5605.52
04/29/1955	-5605.33	-1846.84	-917.62	-457.89	-227.93	-151.15	-89.57	-63.18	-43.34	-20.17	-12.37	-12.37	-5605.33
05/31/1955	-5605.75	-1826.92	-917.7	-457.76	-227.96	-151.17	-89.58	-63.18	-43.36	-20.2	-12.39	-12.39	-5605.75
06/30/1955	-5424.64	-1826.82	-912.59	-457.77	-227.86	-151.06	-89.46	-63.06	-43.25	-20.15	-12.37	-12.37	-5424.64
07/29/1955	-5424.22	-1826.5	-912.39	-457.57	-227.62	-150.87	-89.29	-62.87	-43.09	-20.05	-12.32	-12.32	-5424.22
08/31/1955	-5604.82	-1846.28	-922.25	-457.38	-227.5	-150.76	-89.23	-62.88	-43.12	-20.05	-12.3	-12.3	-5604.82
09/30/1955	-5423.8	-1826.15	-917.06	-457.4	-227.7	-150.91	-89.34	-62.98	-43.2	-20.07	-12.33	-12.33	-5423.8
10/31/1955	-5604.76	-1826.23	-922.17	-457.34	-227.71	-150.94	-89.41	-63.07	-43.28	-20.14	-12.36	-12.36	-5604.76
11/30/1955	-5423.91	-1845.96	-916.88	-457.01	-227.38	-150.73	-89.29	-62.96	-43.2	-20.1	-12.35	-12.35	-5423.91
12/30/1955	-5423.5	-1845.88	-916.55	-456.94	-227.31	-150.67	-89.23	-62.92	-43.16	-20.11	-12.37	-12.37	-5423.5
01/31/1956	-5797.86	-1866.57	-921.86	-457.29	-227.54	-150.86	-89.38	-63.04	-43.25	-20.14	-12.38	-12.38	-5797.86
02/29/1956	-5423.97	-1825.98	-911.82	-458.38	-227.79	-150.95	-89.39	-63.04	-43.24	-20.13	-12.37	-12.37	-5423.97
03/29/1956	-5423.72	-1826.02	-911.88	-458.2	-227.5	-150.69	-89.14	-62.78	-43.03	-20.03	-12.31	-12.31	-5423.72

ESTIMATED ZERO BOND 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	-5423.3	-1825.62	-911.45	-457.89	-227.18	-150.48	-89.04	-62.72	-43	-19.94	-12.23	-12.23	-5423.3
05/31/1956	-5604.48	-1825.76	-916.61	-458.01	-227.49	-150.7	-89.21	-62.9	-43.16	-20.06	-12.33	-12.33	-5604.48
06/29/1956	-5604.48	-1825.88	-916.7	-458.27	-227.57	-150.76	-89.21	-62.85	-43.11	-20.07	-12.34	-12.34	-5604.48
07/31/1956	-5423.86	-1825.93	-911.58	-457.99	-227.28	-150.47	-88.95	-62.61	-42.91	-19.93	-12.22	-12.22	-5423.86
08/31/1956	-5604.41	-1845.71	-926.35	-457.73	-227.03	-150.19	-88.7	-62.42	-42.73	-19.8	-12.15	-12.15	-5604.41
09/28/1956	-5604.12	-1845.46	-926.18	-457.67	-226.99	-150.21	-88.77	-62.51	-42.8	-19.82	-12.15	-12.15	-5604.12
10/31/1956	-5604.23	-1825.39	-926.38	-457.68	-227.07	-150.24	-88.72	-62.39	-42.7	-19.76	-12.09	-12.09	-5604.23
11/30/1956	-5423.37	-1865.82	-921.01	-457.47	-226.7	-149.98	-88.58	-62.33	-42.64	-19.69	-12.06	-12.06	-5423.37
12/31/1956	-5422.87	-1865.61	-926.08	-457.33	-226.79	-150.01	-88.53	-62.22	-42.47	-19.52	-11.95	-11.95	-5422.87
01/31/1957	-6004.23	-1886.74	-926.26	-457.7	-227.1	-150.31	-88.84	-62.56	-42.83	-19.79	-12.08	-12.08	-6004.23
02/28/1957	-5423.04	-1824.95	-910.95	-457.5	-226.98	-150.05	-88.75	-62.46	-42.74	-19.73	-12.1	-12.1	-5423.04
03/29/1957	-5423.08	-1825.22	-911.15	-457.49	-227.06	-150.07	-88.74	-62.45	-42.77	-19.75	-12.06	-12.06	-5423.08
04/30/1957	-5422.87	-1825.21	-911.06	-457.36	-226.95	-149.95	-88.57	-62.24	-42.58	-19.62	-11.93	-11.93	-5422.87
05/31/1957	-5603.65	-1824.97	-915.86	-457.33	-226.9	-149.85	-88.44	-62.09	-42.42	-19.53	-11.93	-11.93	-5603.65
06/27/1957	-5603.8	-1824.95	-915.47	-457.25	-226.65	-149.67	-88.23	-61.83	-42.18	-19.38	-11.81	-11.81	-5603.8
07/31/1957	-5422.85	-1824.91	-910.61	-456.99	-226.66	-149.61	-88.17	-61.81	-42.21	-19.42	-11.79	-11.79	-5422.85
08/30/1957	-5422.86	-1824.74	-920.13	-456.96	-226.49	-149.6	-88.28	-61.96	-42.31	-19.4	-11.76	-11.76	-5422.86
09/30/1957	-5422.86	-1824.74	-920.17	-456.79	-226.52	-149.51	-88.19	-61.93	-42.22	-19.32	-11.83	-11.83	-5422.86
10/31/1957	-5603.46	-1824.59	-925.48	-456.99	-226.57	-149.51	-88.21	-62	-42.26	-19.28	-11.78	-11.78	-5603.46
11/29/1957	-5604.28	-1845.21	-926.05	-457.47	-227.3	-150.23	-88.89	-62.65	-42.82	-19.52	-11.94	-11.94	-5604.28
12/31/1957	-5423.21	-1866.14	-926.38	-458.06	-227.73	-150.73	-89.32	-62.95	-43.07	-19.71	-12.07	-12.07	-5423.21
01/31/1958	-6005.78	-1888.48	-927.41	-458.74	-228.06	-150.85	-89.33	-62.97	-43.04	-19.62	-12.33	-12.33	-6005.78
02/28/1958	-5424.82	-1827.04	-912.8	-459.12	-228.17	-151.15	-89.54	-63.13	-43.15	-19.7	-11.96	-11.96	-5424.82
03/31/1958	-5605.81	-1847.21	-917.81	-459.21	-228.2	-151.22	-89.58	-63.11	-43.19	-19.6	-11.94	-11.94	-5605.81
04/30/1958	-5424.77	-1827.13	-913.16	-459.45	-228.52	-151.43	-89.71	-63.23	-43.24	-19.77	-12.08	-12.08	-5424.77
05/29/1958	-5425.6	-1827.85	-913.71	-458.94	-228.59	-151.51	-89.77	-63.25	-43.24	-19.76	-12.12	-12.12	-5425.6
06/30/1958	-5425.24	-1827.51	-912.98	-459.8	-228.46	-151.28	-89.53	-63.07	-43.06	-19.68	-12.05	-12.05	-5425.24
07/31/1958	-5425.23	-1827.42	-912.82	-459.32	-228.23	-151.03	-89.28	-62.81	-42.87	-19.51	-11.89	-11.89	-5425.23
08/29/1958	-5424.12	-1825.93	-916.56	-458.14	-226.88	-150	-88.49	-62.13	-42.34	-19.22	-11.73	-11.73	-5424.12
09/30/1958	-5424.13	-1825.47	-920.96	-457.9	-226.75	-149.87	-88.4	-62.08	-42.29	-19.15	-11.64	-11.64	-5424.13
10/31/1958	-5605.17	-1825.7	-926.63	-457.97	-226.75	-149.88	-88.38	-62.02	-42.28	-19.26	-11.51	-11.51	-5605.17
11/28/1958	-5604.85	-1825.58	-926.42	-457.68	-226.8	-149.98	-88.54	-62.22	-42.43	-19.3	-11.6	-11.6	-5604.85
12/31/1958	-5423.55	-1866.21	-926.33	-457.89	-226.77	-149.86	-88.3	-61.88	-42.14	-19.16	-11.5	-11.5	-5423.55
01/30/1959	-5797.7	-1866.21	-926.24	-457.34	-226.5	-149.64	-88.17	-61.84	-42.1	-19.05	-11.4	-11.4	-5797.7

ESTIMATED ZERO BOND 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	-6004.94	-1887.1	-926.25	-457.41	-226.5	-149.75	-88.34	-62	-42.21	-19.09	-11.37	-11.37	-6004.94
03/31/1959	-5604.42	-1845.59	-915.89	-455.98	-226.35	-149.56	-88.09	-61.82	-42.08	-19.04	-11.34	-11.34	-5604.42
04/30/1959	-5423.23	-1825.46	-910.85	-455.76	-226.27	-149.43	-87.86	-61.52	-41.84	-18.95	-11.31	-11.31	-5423.23
05/29/1959	-5423.25	-1825.33	-910.64	-455.62	-226.15	-149.32	-87.8	-61.49	-41.82	-18.93	-11.27	-11.27	-5423.25
06/30/1959	-5423.22	-1825.3	-910.38	-455.55	-225.91	-149.07	-87.62	-61.41	-41.75	-18.89	-11.45	-11.45	-5423.22
07/31/1959	-5423.66	-1825.34	-910.37	-455.31	-225.88	-149.07	-87.6	-61.36	-41.71	-18.93	-11.52	-11.52	-5423.66
08/31/1959	-5603.36	-1844.64	-919.68	-455.09	-225.51	-148.8	-87.37	-61.1	-41.5	-18.85	-11.43	-11.43	-5603.36
09/30/1959	-5422.56	-1824.21	-914.17	-454.71	-225.3	-148.66	-87.33	-61.13	-41.52	-18.84	-11.45	-11.45	-5422.56
10/30/1959	-5422.9	-1824.23	-914.81	-455.27	-225.68	-148.93	-87.54	-61.34	-41.67	-18.95	-11.3	-11.3	-5422.9
11/30/1959	-5422.94	-1844.04	-914.21	-454.83	-225.33	-148.65	-87.36	-61.24	-41.59	-18.82	-11.43	-11.43	-5422.94
12/31/1959	-5421.88	-1843.99	-919.09	-454.85	-225.14	-148.55	-87.19	-60.92	-41.31	-18.63	-11.02	-11.02	-5421.88
01/29/1960	-5422.48	-1844.32	-919.62	-455.1	-225.48	-148.78	-87.35	-61.08	-41.46	-18.66	-11	-11	-5422.48
02/29/1960	-5422.09	-1824	-909.72	-456.35	-225.89	-148.98	-87.47	-61.2	-41.58	-18.75	-11.05	-11.05	-5422.09
03/31/1960	-5604.26	-1845.37	-915.68	-457.3	-226.58	-149.65	-88.05	-61.69	-41.94	-18.93	-11.3	-11.3	-5604.26
04/29/1960	-5603.81	-1845.38	-915.69	-456.67	-226.27	-149.29	-87.77	-61.55	-41.8	-18.76	-11.18	-11.18	-5603.81
05/31/1960	-5604.45	-1825.14	-915.75	-456.82	-226.25	-149.34	-87.82	-61.54	-41.85	-18.88	-11.31	-11.31	-5604.45
06/30/1960	-5424.34	-1826.14	-911.54	-457.63	-226.84	-149.82	-88.17	-61.82	-41.98	-19.1	-11.42	-11.42	-5424.34
07/29/1960	-5424.12	-1826.09	-911.6	-457.91	-227.49	-150.37	-88.66	-62.29	-42.36	-19.27	-11.56	-11.56	-5424.12
08/31/1960	-5605.06	-1846.06	-926.58	-457.91	-227.47	-150.32	-88.58	-62.2	-42.29	-19.2	-11.43	-11.43	-5605.06
09/30/1960	-5423.52	-1825.92	-921.23	-458	-227.54	-150.31	-88.55	-62.18	-42.32	-19.19	-11.41	-11.41	-5423.52
10/31/1960	-5605.28	-1826.07	-926.71	-457.93	-227.43	-150.26	-88.49	-62.07	-42.22	-19.15	-11.41	-11.41	-5605.28
11/30/1960	-5424.42	-1866.55	-921.45	-457.75	-227.23	-150.05	-88.27	-61.86	-42.04	-19.05	-11.34	-11.34	-5424.42
12/30/1960	-5423.92	-1866.71	-921.75	-458.22	-227.68	-150.49	-88.68	-62.23	-42.33	-19.2	-11.46	-11.46	-5423.92
01/31/1961	-6005.28	-1887.69	-926.81	-458.05	-227.38	-150.2	-88.44	-62.04	-42.18	-19.1	-11.38	-11.38	-6005.28
02/28/1961	-5423.47	-1825.72	-911.37	-457.86	-227.33	-150.12	-88.57	-62.16	-42.32	-19.22	-11.52	-11.52	-5423.47
03/30/1961	-5423.79	-1825.89	-911.56	-457.94	-227.44	-150.18	-88.55	-62.07	-42.25	-19.18	-11.51	-11.51	-5423.79
04/28/1961	-5605.01	-1846.16	-916.72	-457.98	-227.41	-150.27	-88.65	-62.13	-42.31	-19.22	-11.56	-11.56	-5605.01
05/31/1961	-5604.51	-1825.95	-916.52	-457.94	-227.23	-150.11	-88.54	-62.06	-42.26	-19.23	-11.58	-11.58	-5604.51
06/30/1961	-5423.86	-1826	-911.62	-457.92	-227.17	-149.95	-88.36	-61.92	-42.13	-19.08	-11.4	-11.4	-5423.86
07/31/1961	-5424.33	-1826.07	-911.7	-458.02	-227.21	-149.91	-88.28	-61.82	-42.07	-19.1	-11.4	-11.4	-5424.33
08/31/1961	-5604.78	-1846.18	-926.59	-457.86	-227.08	-149.8	-88.21	-61.79	-42.04	-18.99	-11.27	-11.27	-5604.78
09/29/1961	-5604.81	-1846.15	-926.58	-457.92	-227.11	-149.9	-88.35	-61.95	-42.16	-19	-11.24	-11.24	-5604.81
10/31/1961	-5604.83	-1826	-926.64	-457.93	-227.16	-149.97	-88.38	-61.91	-42.14	-19.02	-11.25	-11.25	-5604.83
11/30/1961	-5423.69	-1866.4	-921.39	-457.86	-227.08	-149.9	-88.3	-61.81	-42.02	-18.98	-11.25	-11.25	-5423.69

ESTIMATED ZERO BOND 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	-5423.44	-1866.21	-921.22	-457.75	-226.98	-149.81	-88.22	-61.74	-41.95	-18.92	-11.22	-11.22	-5423.44
01/31/1962	-6004.85	-1887.21	-926.34	-457.58	-226.87	-149.71	-88.13	-61.66	-41.89	-18.89	-11.24	-11.24	-6004.85
02/28/1962	-5423.46	-1825.54	-911.22	-457.69	-226.8	-149.96	-88.35	-61.84	-41.99	-18.88	-11.2	-11.2	-5423.46
03/30/1962	-5423.24	-1825.5	-911.23	-457.98	-226.92	-150.1	-88.51	-62.02	-42.17	-19.01	-11.3	-11.3	-5423.24
04/30/1962	-5423.21	-1825.52	-911.34	-457.86	-226.85	-150.04	-88.52	-62.1	-42.26	-19.1	-11.38	-11.38	-5423.21
05/31/1962	-5604.41	-1825.56	-916.37	-457.88	-226.97	-150.11	-88.5	-62.01	-42.18	-19.12	-11.34	-11.34	-5604.41
06/29/1962	-5603.86	-1825.38	-916.15	-457.77	-226.75	-149.96	-88.36	-61.85	-42.05	-19.05	-11.27	-11.27	-5603.86
07/31/1962	-5423.25	-1825.42	-911.07	-457.59	-226.68	-149.88	-88.31	-61.82	-42.01	-18.97	-11.2	-11.2	-5423.25
08/31/1962	-5604.12	-1845.58	-926.26	-457.75	-226.95	-150.1	-88.46	-61.93	-42.1	-19.02	-11.33	-11.33	-5604.12
09/28/1962	-5604.09	-1845.6	-926.33	-457.9	-227.04	-150.13	-88.46	-61.93	-42.11	-19.04	-11.38	-11.38	-5604.09
10/31/1962	-5604.28	-1825.54	-926.45	-457.9	-227.02	-150.13	-88.5	-62.02	-42.18	-19.09	-11.43	-11.43	-5604.28
11/30/1962	-5423.31	-1866.02	-921.2	-457.87	-226.88	-150.12	-88.54	-62.02	-42.17	-19.07	-11.43	-11.43	-5423.31
12/31/1962	-5422.95	-1865.95	-926.28	-457.87	-226.82	-150.12	-88.58	-62.06	-42.21	-19.08	-11.39	-11.39	-5422.95
01/31/1963	-6004.39	-1886.94	-926.28	-457.82	-226.98	-150.09	-88.49	-62.04	-42.2	-19.05	-11.34	-11.34	-6004.39
02/28/1963	-5423.08	-1825.34	-911.15	-456.62	-226.97	-150.08	-88.42	-62	-42.13	-19.04	-11.32	-11.32	-5423.08
03/29/1963	-5423.09	-1825.34	-911.1	-456.64	-226.97	-150.05	-88.38	-61.97	-42.11	-19.02	-11.32	-11.32	-5423.09
04/30/1963	-5423.05	-1825.33	-911.12	-456.48	-226.91	-150.02	-88.37	-61.96	-42.11	-18.95	-11.27	-11.27	-5423.05
05/31/1963	-5603.9	-1825.25	-916.02	-456.44	-226.87	-149.96	-88.32	-61.92	-42.09	-18.97	-11.31	-11.31	-5603.9
06/28/1963	-5603.8	-1825.25	-916	-456.47	-226.84	-149.92	-88.26	-61.86	-42.06	-18.96	-11.31	-11.31	-5603.8
07/31/1963	-5422.85	-1824.97	-910.76	-456.19	-226.6	-149.76	-88.19	-61.84	-42.06	-18.98	-11.33	-11.33	-5422.85
08/30/1963	-5422.69	-1824.85	-915.62	-455.99	-226.49	-149.71	-88.16	-61.8	-42.03	-18.98	-11.34	-11.34	-5422.69
09/30/1963	-5422.47	-1824.81	-915.57	-455.99	-226.5	-149.71	-88.15	-61.79	-42	-18.96	-11.22	-11.22	-5422.47
10/31/1963	-5603.43	-1824.71	-920.53	-455.95	-226.4	-149.63	-88.09	-61.73	-41.94	-18.91	-11.2	-11.2	-5603.43
11/29/1963	-5603.65	-1824.73	-920.46	-455.86	-226.32	-149.6	-88.11	-61.77	-41.97	-18.88	-11.18	-11.18	-5603.65
12/31/1963	-5422.41	-1844.8	-920.45	-455.78	-226.21	-149.51	-88.04	-61.73	-41.93	-18.83	-11.16	-11.16	-5422.41
01/31/1964	-5796.67	-1865.36	-920.52	-455.91	-226.2	-149.55	-88.06	-61.69	-41.9	-18.84	-11.2	-11.2	-5796.67
02/28/1964	-5796.59	-1865.28	-920.38	-455.71	-226.09	-149.47	-88	-61.65	-41.87	-18.84	-11.19	-11.19	-5796.59
03/31/1964	-5603.24	-1844.78	-915.36	-456.97	-226.3	-149.49	-87.97	-61.63	-41.84	-18.79	-11.17	-11.17	-5603.24
04/30/1964	-5422.57	-1824.81	-910.49	-457.03	-226.45	-149.58	-88.01	-61.66	-41.86	-18.79	-11.18	-11.18	-5422.57
05/28/1964	-5422.75	-1824.78	-910.51	-457.01	-226.48	-149.65	-88.08	-61.69	-41.89	-18.84	-11.21	-11.21	-5422.75
06/30/1964	-5422.48	-1824.75	-910.55	-457.04	-226.63	-149.72	-88.12	-61.74	-41.94	-18.86	-11.22	-11.22	-5422.48
07/31/1964	-5422.57	-1824.76	-910.52	-457.12	-226.72	-149.77	-88.11	-61.71	-41.9	-18.82	-11.2	-11.2	-5422.57
08/31/1964	-5603.5	-1844.83	-925.61	-457.02	-226.61	-149.71	-88.09	-61.69	-41.89	-18.8	-11.2	-11.2	-5603.5
09/30/1964	-5422.35	-1824.67	-920.38	-456.98	-226.56	-149.71	-88.11	-61.72	-41.9	-18.81	-11.19	-11.19	-5422.35

ESTIMATED ZERO BOND 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	-5422.45	-1824.67	-920.39	-456.94	-226.55	-149.67	-88.09	-61.72	-41.92	-18.84	-11.21	-11.21	-5422.45
11/30/1964	-5422.32	-1865.01	-920.1	-456.68	-226.37	-149.56	-88.02	-61.68	-41.89	-18.81	-11.2	-11.2	-5422.32
12/31/1964	-5422.36	-1865.03	-925.26	-456.84	-226.49	-149.67	-88.09	-61.69	-41.88	-18.8	-11.19	-11.19	-5422.36
01/29/1965	-5602.91	-1864.98	-925.23	-456.86	-226.5	-149.67	-88.09	-61.7	-41.89	-18.8	-11.2	-11.2	-5602.91
02/26/1965	-6003.39	-1885.84	-925.17	-456.74	-226.38	-149.59	-88.04	-61.66	-41.88	-18.81	-11.18	-11.18	-6003.39
03/31/1965	-5602.93	-1844.35	-915.08	-456.78	-226.44	-149.45	-88.03	-61.65	-41.9	-18.82	-11.19	-11.19	-5602.93
04/30/1965	-5421.99	-1824.27	-910.09	-456.8	-226.43	-149.46	-88.04	-61.64	-41.88	-18.82	-11.19	-11.19	-5421.99
05/28/1965	-5422.14	-1824.34	-910.11	-456.8	-226.44	-149.47	-88.04	-61.62	-41.87	-18.81	-11.18	-11.18	-5422.14
06/30/1965	-5422.1	-1824.39	-910.2	-456.92	-226.54	-149.52	-88.06	-61.65	-41.89	-18.82	-11.19	-11.19	-5422.1
07/30/1965	-5422.08	-1824.39	-910.17	-456.88	-226.47	-149.47	-88.03	-61.63	-41.86	-18.8	-11.18	-11.18	-5422.08
08/31/1965	-5602.98	-1844.45	-925.2	-456.73	-226.35	-149.36	-87.95	-61.56	-41.8	-18.75	-11.12	-11.12	-5602.98
09/30/1965	-5421.95	-1824.2	-919.87	-456.55	-226.17	-149.23	-87.85	-61.48	-41.73	-18.68	-11.08	-11.08	-5421.95
10/29/1965	-5421.98	-1824.15	-919.88	-456.54	-226.19	-149.21	-87.8	-61.43	-41.68	-18.68	-11.05	-11.05	-5421.98
11/30/1965	-5422.06	-1864.72	-919.81	-456.45	-226.09	-149.15	-87.75	-61.35	-41.62	-18.64	-11.03	-11.03	-5422.06
12/31/1965	-5421.46	-1864.32	-924.5	-455.98	-225.52	-148.66	-87.39	-61.11	-41.47	-18.55	-10.96	-10.96	-5421.46
01/31/1966	-6002.72	-1885.18	-924.46	-456.02	-225.56	-148.64	-87.32	-61.01	-41.4	-18.49	-10.93	-10.93	-6002.72
02/28/1966	-5421.42	-1823.54	-909.19	-455.94	-225.16	-148.55	-87.11	-60.67	-41.07	-18.28	-10.75	-10.75	-5421.42
03/31/1966	-5602.43	-1843.77	-914.33	-456.07	-225.34	-148.78	-87.42	-61.03	-41.37	-18.44	-10.9	-10.9	-5602.43
04/29/1966	-5602.11	-1843.65	-914.31	-455.94	-225.26	-148.71	-87.35	-60.96	-41.29	-18.38	-10.89	-10.89	-5602.11
05/31/1966	-5602.29	-1823.57	-914.21	-455.81	-225.1	-148.52	-87.22	-60.93	-41.28	-18.35	-10.77	-10.77	-5602.29
06/30/1966	-5421.4	-1823.7	-909.29	-455.88	-225.09	-148.41	-87.07	-60.78	-41.13	-18.26	-10.8	-10.8	-5421.4
07/29/1966	-5421.33	-1823.43	-909.1	-455.67	-224.95	-148.3	-86.93	-60.59	-41.02	-18.25	-10.81	-10.81	-5421.33
08/31/1966	-5601.99	-1843.28	-923.61	-455.12	-224.34	-147.79	-86.57	-60.35	-40.85	-18.14	-10.72	-10.72	-5601.99
09/30/1966	-5420.61	-1822.76	-918.35	-455.22	-224.68	-148.13	-86.93	-60.72	-41.11	-18.27	-10.8	-10.8	-5420.61
10/31/1966	-5602	-1822.82	-923.79	-455.38	-224.9	-148.3	-87.02	-60.74	-41.18	-18.38	-10.93	-10.93	-5602
11/30/1966	-5421.53	-1863.59	-918.78	-455.38	-224.77	-148.26	-86.96	-60.62	-41.04	-18.25	-10.84	-10.84	-5421.53
12/30/1966	-5421.23	-1863.95	-919.09	-455.84	-225.45	-148.8	-87.45	-61.13	-41.45	-18.46	-11	-11	-5421.23
01/31/1967	-6002.71	-1885.27	-924.65	-456.2	-225.76	-149.03	-87.61	-61.26	-41.59	-18.57	-11.11	-11.11	-6002.71
02/28/1967	-5421.39	-1823.64	-909.43	-454.89	-225.53	-148.86	-87.4	-61.07	-41.36	-18.37	-10.97	-10.97	-5421.39
03/31/1967	-5602.74	-1844.23	-914.95	-455.48	-226.12	-149.29	-87.72	-61.36	-41.55	-18.44	-10.86	-10.86	-5602.74
04/28/1967	-5603.31	-1844.59	-915.21	-455.5	-225.99	-149.04	-87.42	-61.08	-41.3	-18.24	-10.87	-10.87	-5603.31
05/31/1967	-5603.5	-1824.82	-915.31	-455.51	-225.85	-149	-87.43	-61.08	-41.26	-18.17	-10.83	-10.83	-5603.5
06/30/1967	-5422.08	-1824.25	-909.61	-454.54	-225.31	-148.41	-86.83	-60.51	-40.88	-17.99	-10.72	-10.72	-5422.08
07/31/1967	-5422.09	-1824.1	-909.46	-454.48	-225.43	-148.58	-87.01	-60.67	-40.98	-17.99	-10.78	-10.78	-5422.09

ESTIMATED ZERO BOND 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	-5602.9	-1843.97	-919.21	-454.37	-225.12	-148.29	-86.78	-60.5	-40.89	-17.95	-10.75	-10.75	-5602.9
09/29/1967	-5602.5	-1843.88	-918.97	-454.32	-225.15	-148.27	-86.76	-60.49	-40.86	-17.9	-10.7	-10.7	-5602.5
10/31/1967	-5602.6	-1823.68	-918.95	-454.14	-224.87	-148	-86.44	-60.12	-40.48	-17.71	-9.46	-9.46	-5602.6
11/30/1967	-5421.79	-1843.47	-913.49	-453.93	-224.72	-147.93	-86.37	-60.01	-40.32	-17.44	-9.66	-9.66	-5421.79
12/29/1967	-5421.55	-1843.24	-913.42	-453.84	-224.57	-147.84	-86.41	-60.14	-40.44	-17.47	-10.09	-10.09	-5421.55
01/31/1968	-5795.37	-1863.96	-919.02	-454.24	-224.95	-148.15	-86.61	-60.29	-40.58	-17.64	-10.46	-10.46	-5795.37
02/29/1968	-5421.14	-1823.13	-908.8	-455.49	-225.16	-148.22	-86.61	-60.25	-40.57	-17.69	-10.05	-10.05	-5421.14
03/29/1968	-5420.9	-1822.96	-908.75	-455.35	-225.03	-148.07	-86.45	-60.09	-40.37	-17.43	-10	-10	-5420.9
04/30/1968	-5420.37	-1822.6	-908.43	-455.06	-224.85	-147.93	-86.35	-60.01	-40.38	-17.6	-10.08	-10.08	-5420.37
05/31/1968	-5601.28	-1822.41	-913.22	-454.89	-224.72	-147.96	-86.37	-59.92	-40.25	-17.45	-12.11	-12.11	-5601.28
06/28/1968	-5601.44	-1822.81	-913.44	-455.03	-224.85	-148.14	-86.56	-60.11	-40.49	-17.81	-9.92	-9.92	-5601.44
07/31/1968	-5420.72	-1822.99	-908.68	-455.56	-225.29	-148.53	-86.89	-60.39	-40.72	-17.96	-9.92	-9.92	-5420.72
08/30/1968	-5420.86	-1823.04	-918.72	-455.57	-225.31	-148.52	-86.83	-60.29	-40.67	-17.91	-10.23	-10.23	-5420.86
09/30/1968	-5420.7	-1823.02	-918.64	-455.6	-225.22	-148.49	-86.81	-60.24	-40.58	-17.78	-10.21	-10.21	-5420.7
10/31/1968	-5601.38	-1822.67	-923.56	-455.32	-225.03	-148.4	-86.72	-60.1	-40.45	-17.67	-9.98	-9.98	-5601.38
11/29/1968	-5601.74	-1842.76	-923.48	-455.12	-224.92	-148.28	-86.58	-59.94	-40.26	-17.46	-9.87	-9.87	-5601.74
12/31/1968	-5419.72	-1862.57	-922.66	-454.48	-224.11	-147.65	-86.05	-59.44	-39.88	-17.17	-9.59	-9.59	-5419.72
01/31/1969	-6001.24	-1883.56	-922.75	-454.52	-224.3	-147.76	-86.11	-59.46	-39.84	-16.98	-9.03	-9.03	-6001.24
02/28/1969	-5420.16	-1821.93	-907.57	-454.41	-224.08	-147.23	-85.86	-59.45	-39.83	-16.96	-9.03	-9.03	-5420.16
03/28/1969	-5420.52	-1822.1	-907.88	-454.51	-224.34	-147.41	-85.92	-59.42	-39.7	-16.89	-9.02	-9.02	-5420.52
04/30/1969	-5419.75	-1822.19	-908.02	-454.76	-224.25	-147.53	-86.01	-59.37	-39.83	-17.22	-9.37	-9.37	-5419.75
05/29/1969	-5419.95	-1822.03	-907.78	-454.23	-223.84	-147.04	-85.64	-59.17	-39.55	-16.77	-9.14	-9.14	-5419.95
06/30/1969	-5419.34	-1821.56	-907.06	-453.18	-223.26	-146.52	-85.31	-59.02	-39.57	-16.91	-9.23	-9.23	-5419.34
07/31/1969	-5419.35	-1820.91	-906.78	-453.24	-222.99	-146.38	-85.32	-59.12	-39.64	-16.95	-9.31	-9.31	-5419.35
08/29/1969	-5418.77	-1821.21	-911.74	-453.12	-223.02	-146.23	-85.1	-58.92	-39.53	-16.91	-9.23	-9.23	-5418.77
09/30/1969	-5418.87	-1821.06	-916.51	-452.87	-222.48	-145.47	-84.25	-58.11	-38.83	-16.52	-9.04	-9.04	-5418.87
10/31/1969	-5599.97	-1821.08	-921.66	-453.28	-223.13	-146.11	-84.94	-58.86	-39.33	-16.65	-9.25	-9.25	-5599.97
11/28/1969	-5600.07	-1820.55	-921.06	-452.86	-222.85	-145.88	-84.72	-58.62	-38.95	-16.35	-9.31	-9.31	-5600.07
12/31/1969	-5418.78	-1860.66	-920.88	-452.69	-222.22	-145.22	-84.12	-58.1	-38.55	-16.21	-9.3	-9.3	-5418.78
01/30/1970	-5792.48	-1860.75	-921.11	-452.77	-222.33	-145.27	-84	-57.84	-38.56	-16.3	-8.89	-8.89	-5792.48
02/27/1970	-6000.85	-1882.89	-922.16	-453.95	-223.27	-146.21	-84.89	-58.65	-39.23	-16.68	-9.11	-9.11	-6000.85
03/31/1970	-5600.28	-1841.86	-912.49	-454.12	-223.18	-146.35	-84.92	-58.62	-39.08	-16.53	-9.09	-9.09	-5600.28
04/30/1970	-5419.28	-1821.17	-906.68	-453.32	-222.36	-145.62	-84.2	-57.85	-38.36	-16.21	-9.19	-9.19	-5419.28
05/29/1970	-5419.41	-1821.07	-906.82	-453.32	-222.2	-145.66	-84.33	-57.98	-38.3	-15.78	-9.77	-9.77	-5419.41

ESTIMATED ZERO BOND 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	-5419.88	-1821.66	-907.33	-453.51	-222.51	-145.78	-84.34	-57.98	-38.55	-16.2	-9.99	-9.99	-5419.88
07/31/1970	-5419.75	-1821.85	-907.52	-453.87	-222.82	-146.01	-84.54	-58.19	-38.84	-16.37	-10.01	-10.01	-5419.75
08/31/1970	-5600.59	-1842.01	-922.62	-454.02	-222.94	-146.14	-84.65	-58.26	-38.67	-16.18	-10.04	-10.04	-5600.59
09/30/1970	-5420.27	-1822.34	-917.51	-454.22	-223.44	-146.53	-84.93	-58.46	-38.81	-16.33	-10.19	-10.19	-5420.27
10/30/1970	-5420.56	-1822.33	-917.91	-454.49	-223.55	-146.65	-85.04	-58.57	-38.76	-16.22	-10.18	-10.18	-5420.56
11/30/1970	-5421.43	-1863.85	-919.09	-455.74	-224.8	-147.77	-85.97	-59.35	-39.54	-16.72	-10.4	-10.4	-5421.43
12/31/1970	-5421.33	-1863.96	-924.33	-455.86	-224.61	-147.68	-86.01	-59.49	-39.59	-16.61	-10.32	-10.32	-5421.33
01/29/1971	-5602.71	-1864.78	-925.02	-456.66	-225.48	-148.14	-86.22	-59.64	-39.91	-16.99	-10.5	-10.5	-5602.71
02/26/1971	-6004.05	-1886.52	-925.68	-457.16	-225.94	-148.62	-86.57	-59.84	-39.86	-16.74	-10.37	-10.37	-6004.05
03/31/1971	-5603.32	-1844.68	-915.5	-455.74	-226.08	-148.88	-86.93	-60.37	-40.44	-17.11	-10.54	-10.54	-5603.32
04/30/1971	-5422.17	-1824.36	-909.83	-454.97	-224.92	-147.76	-86	-59.6	-39.94	-16.98	-10.46	-10.46	-5422.17
05/28/1971	-5421.98	-1823.92	-909.67	-454.62	-224.51	-147.62	-85.85	-59.29	-39.63	-16.85	-10.41	-10.41	-5421.98
06/30/1971	-5420.97	-1823.14	-908.79	-453.46	-223.67	-146.79	-85.22	-58.9	-39.42	-16.77	-10.33	-10.33	-5420.97
07/30/1971	-5420.77	-1823.04	-908.34	-453.53	-223.64	-146.71	-85.1	-58.76	-39.23	-16.87	-10.61	-10.61	-5420.77
08/31/1971	-5602.34	-1844.02	-919.41	-454.32	-224.55	-147.73	-86.03	-59.53	-39.7	-17.12	-10.89	-10.89	-5602.34
09/30/1971	-5421.5	-1823.63	-914.14	-454.32	-224.67	-147.72	-86.11	-59.78	-40.01	-17.22	-10.84	-10.84	-5421.5
10/29/1971	-5421.85	-1823.87	-914.65	-455.03	-225.19	-148.14	-86.4	-59.97	-40.13	-17.25	-10.85	-10.85	-5421.85
11/30/1971	-5422.01	-1844.04	-914.64	-454.86	-225.07	-148.08	-86.33	-59.84	-39.92	-17.19	-10.94	-10.94	-5422.01
12/31/1971	-5422.54	-1844.58	-920.16	-455.29	-225.27	-148.36	-86.55	-59.96	-39.98	-17.11	-10.82	-10.82	-5422.54
01/31/1972	-5797.01	-1865.58	-920.48	-455.39	-225.29	-148.13	-86.26	-59.75	-39.8	-17.08	-10.86	-10.86	-5797.01
02/29/1972	-5422.75	-1824.9	-910.37	-456.6	-225.67	-148.34	-86.36	-59.81	-39.83	-17.17	-10.98	-10.98	-5422.75
03/30/1972	-5422.43	-1824.39	-909.67	-455.9	-224.87	-147.75	-86.05	-59.68	-39.83	-17.1	-10.83	-10.83	-5422.43
04/28/1972	-5603.52	-1844.77	-915.05	-456.36	-225.32	-148.06	-86.22	-59.77	-39.85	-17.08	-10.83	-10.83	-5603.52
05/31/1972	-5603.34	-1824.49	-914.97	-456.22	-225.47	-148.18	-86.31	-59.83	-39.9	-17.25	-11.05	-11.05	-5603.34
06/30/1972	-5422.23	-1824.22	-909.49	-455.63	-224.97	-147.84	-86.12	-59.73	-39.87	-17.18	-10.94	-10.94	-5422.23
07/31/1972	-5422.39	-1824.49	-909.77	-455.97	-225.21	-147.91	-86.08	-59.67	-39.9	-16.89	-10.45	-10.45	-5422.39
08/31/1972	-5602.46	-1843.94	-924.34	-455.41	-224.78	-147.65	-85.84	-59.36	-39.63	-16.76	-10.36	-10.36	-5602.46
09/29/1972	-5602.27	-1843.7	-923.99	-455.21	-224.58	-147.62	-85.86	-59.34	-39.57	-16.64	-10.26	-10.26	-5602.27
10/31/1972	-5602.2	-1823.45	-924.08	-455.31	-224.6	-147.58	-85.89	-59.48	-39.63	-17.53	-11.51	-11.51	-5602.2
11/30/1972	-5421.16	-1863.99	-918.88	-455.41	-224.76	-147.69	-85.98	-59.59	-39.74	-17.67	-11.64	-11.64	-5421.16
12/29/1972	-5420.99	-1863.7	-918.63	-455.32	-224.45	-147.52	-85.88	-59.49	-39.67	-17.41	-11.31	-11.31	-5420.99
01/31/1973	-6001.65	-1884.1	-923.31	-454.66	-224.11	-147.2	-85.7	-59.45	-39.52	-16.08	-9.74	-9.74	-6001.65
02/28/1973	-5420.33	-1822.32	-907.93	-454.42	-223.76	-146.74	-85.43	-59.2	-39.39	-16.13	-9.81	-9.81	-5420.33
03/30/1973	-5419.81	-1821.72	-907.14	-453.82	-223.45	-146.6	-85.36	-59.09	-39.34	-16.2	-9.88	-9.88	-5419.81

ESTIMATED ZERO BOND 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	-5419.85	-1821.81	-907.41	-453.97	-223.66	-146.72	-85.41	-59.12	-39.34	-16.15	-9.83	-9.83	-5419.85
05/31/1973	-5600.14	-1821.15	-911.97	-453.62	-223.54	-146.72	-85.37	-58.96	-39.13	-15.94	-8.21	-8.21	-5600.14
06/29/1973	-5599.26	-1820.56	-911.25	-453.01	-223.32	-146.49	-85.24	-58.96	-39.13	-15.87	-8.11	-8.11	-5599.26
07/31/1973	-5417.45	-1819.73	-905.45	-451.84	-222.4	-145.47	-84.39	-58.37	-38.66	-15.47	-7.74	-7.74	-5417.45
08/31/1973	-5597.99	-1839.52	-920.39	-452.25	-222.71	-146.1	-84.95	-58.67	-38.88	-15.69	-7.96	-7.96	-5597.99
09/28/1973	-5599.29	-1841.09	-921.3	-453.25	-223.51	-146.77	-85.44	-59.01	-39.18	-15.93	-9.63	-9.63	-5599.29
10/31/1973	-5599.7	-1820.73	-921.62	-453.6	-223.67	-146.68	-85.38	-59.14	-39.16	-15.57	-7.71	-7.71	-5599.7
11/30/1973	-5418.32	-1861.24	-915.95	-453.39	-223.68	-146.71	-85.39	-59.11	-39.19	-15.71	-7.89	-7.89	-5418.32
12/31/1973	-5418.43	-1861.21	-921.45	-453.56	-223.57	-146.67	-85.36	-59.04	-39.06	-15.49	-7.64	-7.64	-5418.43
01/31/1974	-5999.56	-1882.13	-921.64	-453.79	-223.63	-146.69	-85.26	-58.83	-38.87	-15.43	-7.61	-7.61	-5999.56
02/28/1974	-5418.42	-1820.62	-906.5	-453.74	-223.24	-146.56	-85.16	-58.8	-38.9	-15.27	-7.1	-7.1	-5418.42
03/29/1974	-5417.3	-1819.46	-905.39	-452.53	-222.29	-145.73	-84.48	-58.24	-38.59	-14.95	-6.32	-6.32	-5417.3
04/30/1974	-5416.95	-1819.04	-904.97	-451.81	-221.72	-145.18	-83.99	-57.8	-38.32	-14.65	-5.68	-5.68	-5416.95
05/31/1974	-5598.77	-1819.91	-910.43	-452.22	-221.96	-145.38	-84.11	-57.85	-38.42	-14.46	-7.78	-7.78	-5598.77
06/28/1974	-5598.96	-1820.41	-910.74	-452.06	-221.81	-145.1	-83.86	-57.72	-38.33	-14.53	-7.92	-7.92	-5598.96
07/31/1974	-5418.1	-1820.43	-905.76	-452.03	-221.56	-144.94	-83.7	-57.48	-38.16	-14.3	-7.63	-7.63	-5418.1
08/30/1974	-5416.48	-1818.91	-914.39	-450.94	-221.3	-144.83	-83.58	-57.27	-37.94	-14.15	-4.67	-4.67	-5416.48
09/30/1974	-5419.66	-1821.79	-916.32	-452.41	-222.04	-145.4	-84.09	-57.8	-38.16	-14.19	-5.12	-5.12	-5419.66
10/31/1974	-5599.87	-1820.05	-921.15	-453.01	-222.32	-145.53	-84.19	-57.96	-38.36	-14.62	-8.16	-8.16	-5599.87
11/29/1974	-5599.23	-1840.66	-921.31	-453.29	-222.8	-146.02	-84.53	-58.12	-38.46	-14.61	-8.1	-8.1	-5599.23
12/31/1974	-5419.27	-1861.65	-921.91	-453.69	-222.8	-146.18	-84.85	-58.54	-38.65	-14.5	-8.06	-8.06	-5419.27
01/31/1975	-6001.73	-1884.03	-923.17	-454.69	-223.38	-146.42	-84.82	-58.4	-38.68	-14.93	-8.46	-8.46	-6001.73
02/28/1975	-5421.18	-1822.67	-908.28	-453.68	-223.79	-146.81	-84.97	-58.38	-38.7	-14.58	-7.91	-7.91	-5421.18
03/31/1975	-5601.47	-1842.66	-913.23	-453.33	-223.32	-146.35	-84.6	-58.12	-38.4	-14.47	-5.42	-5.42	-5601.47
04/30/1975	-5420.74	-1822.61	-907.96	-452.81	-222.55	-145.63	-84.05	-57.73	-37.87	-14.51	-6.62	-6.62	-5420.74
05/30/1975	-5420.96	-1822.97	-908.53	-453.5	-223.23	-146.29	-84.5	-57.96	-38.02	-14.79	-6.14	-6.14	-5420.96
06/30/1975	-5420.2	-1822.18	-907.76	-452.76	-222.9	-146.03	-84.38	-57.96	-38.13	-14.84	-6.89	-6.89	-5420.2
07/31/1975	-5419.83	-1821.92	-907.19	-452.33	-222.45	-145.64	-84.13	-57.83	-37.99	-14.92	-6.18	-6.18	-5419.83
08/29/1975	-5419.92	-1821.81	-906.94	-452.15	-222.34	-145.53	-84.01	-57.7	-37.89	-14.59	-6.28	-6.28	-5419.92
09/30/1975	-5419.52	-1821.56	-911.82	-451.98	-222	-145.25	-83.75	-57.43	-37.69	-14.32	-6.28	-6.28	-5419.52
10/31/1975	-5601.39	-1822.61	-918.26	-453.33	-223.04	-146.15	-84.44	-57.96	-38.04	-14.66	-6.73	-6.73	-5601.39
11/28/1975	-5601.79	-1822.59	-917.98	-453.06	-222.78	-145.93	-84.2	-57.68	-37.87	-14.55	-6.47	-6.47	-5601.79
12/31/1975	-5420.86	-1843.07	-918.52	-453.45	-223.35	-146.34	-84.58	-58.1	-38.19	-14.78	-6.79	-6.79	-5420.86
01/30/1976	-5602.25	-1843.55	-919.07	-454.04	-223.69	-146.46	-84.53	-57.99	-38.18	-14.86	-6.77	-6.77	-5602.25

ESTIMATED ZERO BOND 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	-5795.52	-1863.79	-918.56	-453.48	-223.3	-146.31	-84.56	-58.09	-38.23	-14.85	-6.84	-6.84	-5795.52
03/31/1976	-5601.95	-1843.32	-913.65	-454.81	-223.72	-146.53	-84.69	-58.19	-38.34	-14.96	-6.92	-6.92	-5601.95
04/30/1976	-5421.18	-1823.27	-908.72	-454.79	-223.79	-146.63	-84.76	-58.23	-38.3	-14.9	-6.95	-6.95	-5421.18
05/28/1976	-5420.67	-1822.62	-908.02	-454.12	-223.11	-146.07	-84.35	-57.93	-38.06	-14.73	-8.63	-8.63	-5420.67
06/30/1976	-5420.57	-1822.79	-908.19	-454.42	-223.47	-146.35	-84.53	-58.04	-38.14	-14.81	-8.7	-8.7	-5420.57
07/30/1976	-5420.77	-1823.01	-908.49	-454.73	-223.68	-146.53	-84.63	-58.05	-38.12	-14.8	-8.7	-8.7	-5420.77
08/31/1976	-5601.97	-1843.18	-923.79	-454.94	-223.89	-146.77	-84.84	-58.21	-38.22	-14.95	-8.89	-8.89	-5601.97
09/30/1976	-5420.8	-1823.08	-918.68	-455.08	-224.12	-146.94	-84.98	-58.36	-38.36	-14.99	-8.86	-8.86	-5420.8
10/29/1976	-5421.13	-1823.28	-918.97	-455.34	-224.36	-147.21	-85.22	-58.54	-38.45	-14.98	-8.87	-8.87	-5421.13
11/30/1976	-5421.52	-1864.38	-919.47	-455.91	-224.98	-147.87	-85.86	-59.13	-38.81	-15.14	-9.05	-9.05	-5421.52
12/31/1976	-5421.64	-1864.45	-924.63	-455.97	-225.04	-147.82	-85.83	-59.2	-39.09	-15.46	-9.2	-9.2	-5421.64
01/31/1977	-6002.68	-1885.07	-924.14	-455.21	-224.24	-147.01	-85.1	-58.57	-38.55	-15.12	-8.98	-8.98	-6002.68
02/28/1977	-5421.45	-1823.46	-909.06	-455.29	-224.34	-146.9	-85.06	-58.45	-38.46	-14.98	-7.36	-7.36	-5421.45
03/31/1977	-5602.23	-1843.71	-914.21	-455.4	-224.43	-146.96	-85.1	-58.49	-38.49	-15	-7.43	-7.43	-5602.23
04/29/1977	-5602.33	-1843.66	-914.08	-455.28	-224.38	-146.95	-85.1	-58.47	-38.48	-15.06	-7.38	-7.38	-5602.33
05/31/1977	-5601.9	-1823.14	-913.74	-455.07	-224.29	-146.96	-85.17	-58.56	-38.54	-15.08	-7.48	-7.48	-5601.9
06/30/1977	-5420.94	-1823.18	-908.77	-455.18	-224.4	-147.11	-85.35	-58.74	-38.7	-15.17	-7.29	-7.29	-5420.94
07/29/1977	-5420.51	-1822.76	-908.26	-454.67	-223.97	-146.73	-85.04	-58.5	-38.54	-15.04	-7.5	-7.5	-5420.51
08/31/1977	-5601.27	-1842.7	-923.22	-454.54	-223.92	-146.75	-85.12	-58.61	-38.68	-15.23	-7.29	-7.29	-5601.27
09/30/1977	-5420.01	-1822.18	-917.76	-454.26	-223.64	-146.55	-84.99	-58.49	-38.6	-15.1	-7.59	-7.59	-5420.01
10/31/1977	-5600.88	-1821.99	-922.63	-453.95	-223.29	-146.21	-84.7	-58.27	-38.44	-14.97	-7.55	-7.55	-5600.88
11/30/1977	-5420.26	-1862.67	-917.53	-454.02	-223.37	-146.29	-84.79	-58.35	-38.47	-15.02	-7.56	-7.56	-5420.26
12/30/1977	-5420.14	-1862.58	-917.47	-453.88	-223.26	-146.09	-84.53	-58.08	-38.21	-14.83	-7.17	-7.17	-5420.14
01/31/1978	-6001.2	-1883.3	-922.33	-453.64	-222.99	-145.89	-84.36	-57.92	-38.05	-14.69	-7.02	-7.02	-6001.2
02/28/1978	-5419.73	-1821.7	-907.15	-453.6	-222.59	-145.76	-84.26	-57.87	-37.97	-14.64	-7	-7	-5419.73
03/31/1978	-5600.08	-1841.73	-912.11	-453.48	-222.45	-145.68	-84.16	-57.72	-37.85	-14.57	-6.95	-6.95	-5600.08
04/28/1978	-5600.67	-1841.92	-912.04	-453.33	-222.3	-145.56	-84.07	-57.64	-37.77	-14.53	-6.93	-6.93	-5600.67
05/31/1978	-5600.33	-1821.44	-911.66	-452.92	-222.01	-145.31	-83.85	-57.43	-37.59	-14.41	-6.91	-6.91	-5600.33
06/30/1978	-5419.28	-1820.98	-906.32	-452.5	-221.64	-145	-83.6	-57.22	-37.42	-14.34	-6.81	-6.81	-5419.28
07/31/1978	-5419.31	-1821.23	-906.43	-452.5	-221.7	-145.08	-83.69	-57.3	-37.49	-14.42	-6.84	-6.84	-5419.31
08/31/1978	-5599.09	-1840.58	-921.26	-452.41	-221.72	-145.11	-83.76	-57.43	-37.67	-14.57	-6.94	-6.94	-5599.09
09/29/1978	-5598.6	-1839.95	-920.51	-452.01	-221.54	-145.02	-83.69	-57.31	-37.49	-14.39	-6.85	-6.85	-5598.6
10/31/1978	-5598.07	-1819.33	-919.7	-451.04	-220.76	-144.26	-83.09	-56.9	-37.2	-14.21	-6.67	-6.67	-5598.07
11/30/1978	-5416.71	-1859.5	-914.39	-450.81	-220.6	-144.4	-83.3	-56.99	-37.26	-14.33	-6.65	-6.65	-5416.71

ESTIMATED ZERO BOND 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	-5417.25	-1859.2	-914.01	-450.26	-220.03	-143.93	-82.9	-56.65	-37	-14.2	-6.64	-6.64	-5417.25
01/31/1979	-5997.51	-1880.2	-919.35	-450.76	-220.46	-144.35	-83.24	-56.89	-37.17	-14.23	-6.77	-6.77	-5997.51
02/28/1979	-5416.15	-1818.44	-904.04	-449.37	-220.31	-144.09	-82.89	-56.62	-36.93	-14.02	-6.55	-6.55	-5416.15
03/30/1979	-5416.06	-1818.34	-904.11	-449.68	-220.42	-144.17	-82.98	-56.72	-37	-14.05	-6.68	-6.68	-5416.06
04/30/1979	-5416.13	-1818.29	-903.98	-449.56	-220.28	-144.02	-82.8	-56.51	-36.79	-13.88	-6.45	-6.45	-5416.13
05/31/1979	-5596.88	-1818.26	-909.13	-449.8	-220.66	-144.38	-83.13	-56.83	-37.02	-13.97	-6.53	-6.53	-5596.88
06/29/1979	-5597.63	-1818.92	-909.67	-450.38	-221.27	-144.79	-83.42	-57.09	-37.26	-14.24	-6.62	-6.62	-5597.63
07/31/1979	-5416.62	-1818.69	-904.24	-449.92	-220.91	-144.5	-83.17	-56.85	-37.08	-14.1	-6.62	-6.62	-5416.62
08/31/1979	-5596.57	-1838.1	-913.83	-449.19	-220.39	-144.08	-82.85	-56.58	-36.91	-14.07	-6.64	-6.64	-5596.57
09/28/1979	-5596.37	-1837.68	-913.31	-448.69	-220.05	-143.83	-82.65	-56.4	-36.69	-13.92	-6.43	-6.43	-5596.37
10/31/1979	-5594.9	-1815.4	-911	-446.75	-218.14	-142.03	-81.07	-54.99	-35.52	-13.11	-5.97	-5.97	-5594.9
11/30/1979	-5414.97	-1836.38	-906.86	-448.15	-219.08	-143	-81.81	-55.46	-35.82	-13.19	-6.06	-6.06	-5414.97
12/31/1979	-5416.36	-1835.76	-911.44	-447.99	-219.01	-142.94	-81.83	-55.57	-35.83	-13.11	-5.92	-5.92	-5416.36
01/31/1980	-5788.57	-1856.15	-911.39	-447.55	-218.52	-142.37	-81.12	-54.73	-34.92	-11.98	-4.71	-4.71	-5788.57
02/29/1980	-5411.91	-1813.58	-899.1	-445.82	-215.81	-139.97	-79.18	-53.13	-33.68	-11.5	-4.39	-4.39	-5411.91
03/31/1980	-5591.16	-1832.42	-902.84	-445.17	-215.79	-140.11	-79.46	-53.47	-33.75	-11.1	-4.08	-4.08	-5591.16
04/30/1980	-5416.59	-1817.29	-902.91	-449.94	-219.9	-143.21	-81.65	-55.2	-35.24	-12.22	-5.06	-5.06	-5416.59
05/30/1980	-5418.36	-1820.15	-905.75	-452.02	-221.3	-144.27	-82.38	-55.75	-35.67	-12.39	-4.93	-4.93	-5418.36
06/30/1980	-5419.63	-1820.09	-905.81	-452.32	-221.32	-144.35	-82.54	-55.97	-35.87	-12.84	-5.63	-5.63	-5419.63
07/31/1980	-5418.3	-1819.31	-905.14	-451.67	-220.69	-143.67	-81.87	-55.33	-35.17	-12.13	-5.02	-5.02	-5418.3
08/29/1980	-5416.47	-1817.77	-908.18	-449.5	-218.93	-142.04	-80.55	-54.3	-34.57	-11.91	-4.94	-4.94	-5416.47
09/30/1980	-5414.77	-1816.42	-911.96	-448.66	-218.38	-141.67	-80.3	-54.07	-34.19	-11.39	-4.14	-4.14	-5414.77
10/31/1980	-5595.03	-1814.83	-915.69	-447.44	-217.52	-140.82	-79.57	-53.47	-33.72	-11.04	-3.66	-3.66	-5595.03
11/28/1980	-5591.68	-1813.08	-913.94	-446.2	-216.73	-140.28	-79.33	-53.43	-33.7	-11.25	-4.15	-4.15	-5591.68
12/31/1980	-5412.81	-1853.59	-914.02	-447.43	-217.7	-141.08	-79.79	-53.62	-33.86	-11.58	-4.28	-4.28	-5412.81
01/30/1981	-5785.68	-1853.24	-914.2	-446.83	-217.4	-140.85	-79.54	-53.29	-33.58	-11.21	-4.51	-4.51	-5785.68
02/27/1981	-5992.8	-1874.73	-914.27	-446.66	-216.79	-140	-78.67	-52.53	-32.91	-10.8	-3.14	-3.14	-5992.8
03/31/1981	-5593.34	-1835.12	-906.2	-447.81	-217.44	-140.29	-78.94	-52.73	-33.1	-10.98	-4.08	-4.08	-5593.34
04/30/1981	-5411.64	-1812.46	-898.72	-445.84	-215.89	-139.08	-77.95	-51.8	-32.23	-10.13	-2.95	-2.95	-5411.64
05/29/1981	-5409.11	-1812.05	-898.64	-445.82	-215.99	-139.44	-78.55	-52.53	-32.92	-10.61	-4.07	-4.07	-5409.11
06/30/1981	-5410.99	-1813.19	-899.01	-446.22	-215.99	-139.3	-78.22	-52.04	-32.51	-10.58	-3.5	-3.5	-5410.99
07/31/1981	-5410.48	-1812.26	-897.82	-444.73	-214.87	-138.18	-77.28	-51.3	-31.88	-9.98	-3.19	-3.19	-5410.48
08/31/1981	-5591.28	-1831.85	-912.24	-444.14	-213.98	-137.45	-76.53	-50.46	-31.05	-8.98	-2.92	-2.92	-5591.28
09/30/1981	-5411.85	-1813.14	-908.01	-444.63	-213.88	-137.18	-76.2	-50.17	-30.57	-8.55	-2.91	-2.91	-5411.85

ESTIMATED ZERO BOND 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	-5412.77	-1814.7	-909.94	-446.38	-215.92	-138.85	-77.4	-51.02	-31.41	-9.15	-2.7	-2.7	-5412.77
11/30/1981	-5415.42	-1858.15	-912.97	-449.21	-218.1	-140.82	-79.19	-52.72	-33.03	-10.32	-4.14	-4.14	-5415.42
12/31/1981	-5416.24	-1857.13	-916.38	-447.18	-216.52	-139.49	-78.08	-51.73	-32.05	-9.64	-3.82	-3.82	-5416.24
01/29/1982	-5594.4	-1855.66	-915.54	-446.68	-216.23	-139.25	-77.92	-51.63	-31.91	-9.62	-2.7	-2.7	-5594.4
02/26/1982	-5995.02	-1876.75	-915.43	-446.76	-216.21	-139.34	-78.14	-51.93	-32.12	-9.27	-3.58	-3.58	-5995.02
03/31/1982	-5592.83	-1834.26	-904.93	-446.6	-215.72	-139.14	-77.89	-51.63	-32.15	-9.75	-4.03	-4.03	-5592.83
04/30/1982	-5413.3	-1815.16	-900.72	-447.12	-216.17	-139.65	-78.34	-51.99	-32.55	-9.92	-3.69	-3.69	-5413.3
05/28/1982	-5414.15	-1816.11	-901.67	-447.74	-216.62	-139.86	-78.41	-52.03	-32.54	-9.87	-3.44	-3.44	-5414.15
06/30/1982	-5413.99	-1814.73	-899.96	-446.34	-215.49	-138.86	-77.58	-51.32	-31.94	-9.7	-3.03	-3.03	-5413.99
07/30/1982	-5416.8	-1817.54	-902.13	-447.98	-216.87	-140.01	-78.47	-52.07	-32.55	-9.77	-3.55	-3.55	-5416.8
08/31/1982	-5600.47	-1840.01	-919.37	-449.44	-218.02	-141.02	-79.4	-52.98	-33.53	-10.61	-4.18	-4.18	-5600.47
09/30/1982	-5418.81	-1820.51	-914.8	-450.41	-218.65	-141.78	-80.21	-53.77	-34.23	-11.46	-4.98	-4.98	-5418.81
10/29/1982	-5418.06	-1820.08	-915.35	-451.46	-219.93	-142.92	-81.26	-54.8	-35.22	-12.13	-6.99	-6.99	-5418.06
11/30/1982	-5418.13	-1860.38	-915.23	-451.49	-220.12	-143.04	-81.23	-54.63	-35	-11.87	-6.15	-6.15	-5418.13
12/31/1982	-5417.64	-1860.64	-920.82	-451.97	-220.5	-143.43	-81.57	-54.91	-35.27	-12.04	-6.42	-6.42	-5417.64
01/31/1983	-5999.08	-1881.52	-920.68	-451.85	-220.39	-143.3	-81.33	-54.56	-34.87	-11.15	-5.88	-5.88	-5999.08
02/28/1983	-5418.36	-1820.05	-905.83	-450.94	-220.7	-143.68	-81.81	-55.21	-35.41	-11.89	-6.05	-6.05	-5418.36
03/31/1983	-5598.06	-1839.36	-909.99	-450.28	-220.23	-143.29	-81.48	-54.91	-35.16	-11.86	-6.06	-6.06	-5598.06
04/29/1983	-5598.63	-1839.95	-910.61	-450.83	-220.7	-143.73	-81.85	-55.24	-35.48	-12.27	-6.86	-6.86	-5598.63
05/31/1983	-5598.55	-1819.27	-909.97	-450.23	-220.1	-143.15	-81.34	-54.77	-34.98	-11.54	-5.53	-5.53	-5598.55
06/30/1983	-5417.21	-1819.13	-904.77	-449.87	-219.87	-142.91	-81.13	-54.6	-34.84	-11.69	-5.42	-5.42	-5417.21
07/29/1983	-5416.91	-1818.66	-904.19	-449.16	-219.13	-142.11	-80.31	-53.79	-34.09	-10.9	-4.39	-4.39	-5416.91
08/31/1983	-5598.15	-1838.74	-914.15	-449.08	-219	-141.95	-80.18	-53.72	-33.99	-10.8	-4.63	-4.63	-5598.15
09/30/1983	-5417.03	-1819.21	-909.75	-449.8	-219.63	-142.56	-80.72	-54.2	-34.46	-11.38	-5.06	-5.06	-5417.03
10/31/1983	-5598.18	-1819.42	-914.94	-449.88	-219.57	-142.44	-80.54	-53.99	-34.16	-11	-4.38	-4.38	-5598.18
11/30/1983	-5417.24	-1839.19	-909.63	-449.75	-219.54	-142.43	-80.6	-54.1	-34.3	-11.28	-4.34	-4.34	-5417.24
12/30/1983	-5417.14	-1839.02	-909.46	-449.55	-219.32	-142.24	-80.41	-53.9	-34.08	-11.07	-3.89	-3.89	-5417.14
01/31/1984	-5791.03	-1859.64	-914.73	-449.82	-219.56	-142.48	-80.62	-54.07	-34.26	-11.11	-3.83	-3.83	-5791.03
02/29/1984	-5417.2	-1818.73	-904.26	-450.68	-219.48	-142.22	-80.27	-53.71	-33.89	-10.73	-2.94	-2.94	-5417.2
03/30/1984	-5416.22	-1818.11	-903.67	-450.03	-218.9	-141.67	-79.75	-53.2	-33.45	-10.45	-2.65	-2.65	-5416.22
04/30/1984	-5416.45	-1818.09	-903.62	-449.89	-218.67	-141.41	-79.47	-52.92	-33.15	-10.16	-2.15	-2.15	-5416.45
05/31/1984	-5598.25	-1818	-907.91	-448.67	-217.5	-140.22	-78.31	-51.78	-32.09	-9.37	-0.97	-0.97	-5598.25
06/29/1984	-5597.44	-1817.93	-907.95	-448.56	-217.29	-140.13	-78.32	-51.86	-32.19	-9.39	-1.63	-1.63	-5597.44
07/31/1984	-5415.96	-1817.41	-902.93	-448.93	-217.85	-140.92	-79.27	-52.85	-33.08	-10.24	-2.53	-2.53	-5415.96

ESTIMATED ZERO BOND 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	-5596.41	-1837.25	-917.87	-448.91	-217.92	-140.96	-79.31	-52.92	-33.25	-10.53	-2.67	-2.67	-5596.41
09/28/1984	-5596.14	-1837.68	-918.26	-449.46	-218.37	-141.31	-79.63	-53.26	-33.61	-10.82	-3	-3	-5596.14
10/31/1984	-5598.03	-1818.82	-919.46	-450.45	-219.29	-142.19	-80.44	-54	-34.25	-11.37	-3.89	-3.89	-5598.03
11/30/1984	-5418.35	-1860.12	-915.07	-451.2	-219.92	-142.59	-80.65	-54.12	-34.29	-11.26	-4.12	-4.12	-5418.35
12/31/1984	-5418.18	-1860.82	-920.75	-451.57	-220.3	-142.86	-80.75	-54.11	-34.25	-11.26	-4.28	-4.28	-5418.18
01/31/1985	-5999.62	-1881.61	-920.74	-451.79	-220.46	-143.1	-81.12	-54.58	-34.64	-11.59	-4.27	-4.27	-5999.62
02/28/1985	-5418.3	-1819.38	-904.86	-451.03	-219.77	-142.22	-80.34	-53.75	-33.87	-10.74	-3.74	-3.74	-5418.3
03/29/1985	-5417.9	-1819.75	-905.08	-451.24	-219.95	-142.43	-80.58	-54.01	-34.11	-11.01	-4.39	-4.39	-5417.9
04/30/1985	-5418.43	-1820.13	-905.59	-451.73	-220.36	-142.83	-80.9	-54.23	-34.26	-10.98	-4.41	-4.41	-5418.43
05/31/1985	-5600.04	-1820.87	-911.58	-452.73	-221.42	-143.9	-82.04	-55.45	-35.36	-11.98	-5.09	-5.09	-5600.04
06/28/1985	-5600.13	-1821.19	-911.78	-453.05	-221.66	-144.03	-82.05	-55.39	-35.36	-12.1	-5.33	-5.33	-5600.13
07/31/1985	-5418.82	-1820.72	-906.43	-452.63	-221.35	-143.71	-81.73	-55.09	-35.02	-11.78	-5.43	-5.43	-5418.82
08/30/1985	-5418.86	-1820.96	-916.55	-452.83	-221.52	-143.92	-82.01	-55.41	-35.33	-11.95	-5.46	-5.46	-5418.86
09/30/1985	-5418.74	-1820.94	-916.61	-452.76	-221.54	-143.96	-82.03	-55.4	-35.24	-11.74	-5.51	-5.51	-5418.74
10/31/1985	-5599.51	-1820.82	-921.69	-452.83	-221.72	-144.22	-82.33	-55.69	-35.56	-12.13	-5.67	-5.67	-5599.51
11/29/1985	-5600.04	-1840.93	-921.69	-452.96	-222	-144.54	-82.69	-56.09	-36.02	-12.57	-5.95	-5.95	-5600.04
12/31/1985	-5419.84	-1861.64	-921.88	-453.17	-222.43	-145.06	-83.32	-56.79	-36.65	-13.15	-6.44	-6.44	-5419.84
01/31/1986	-6000.63	-1882.67	-921.9	-453.17	-222.39	-145.04	-83.27	-56.69	-36.53	-13.11	-6.32	-6.32	-6000.63
02/28/1986	-5419.05	-1820.98	-906.79	-453.36	-222.33	-145.49	-83.99	-57.61	-37.67	-14.31	-7.17	-7.17	-5419.05
03/31/1986	-5600.41	-1841.8	-912.58	-453.98	-223.07	-146.18	-84.68	-58.32	-38.43	-15.19	-7.89	-7.89	-5600.41
04/30/1986	-5420.25	-1822	-907.79	-454.23	-223.1	-146.2	-84.66	-58.27	-38.35	-14.94	-8.14	-8.14	-5420.25
05/30/1986	-5419.83	-1821.8	-907.49	-453.93	-222.66	-145.54	-83.92	-57.57	-37.61	-14.28	-8.32	-8.32	-5419.83
06/30/1986	-5419.96	-1822.1	-907.89	-454.32	-223.14	-146.12	-84.54	-58.17	-38.21	-14.85	-8.42	-8.42	-5419.96

ESTIMATED ZERO BOND 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	-5420.69	-1822.33	-908.12	-454.55	-223.41	-146.38	-84.7	-58.22	-38.09	-14.55	-8.28	-8.28	-5420.69
08/29/1986	-5421.09	-1823.02	-913.82	-455.27	-224.09	-147.04	-85.28	-58.73	-38.55	-14.96	-8.29	-8.29	-5421.09
09/30/1986	-5420.74	-1822.98	-918.64	-454.97	-223.64	-146.52	-84.73	-58.19	-37.99	-14.39	-8.15	-8.15	-5420.74
10/31/1986	-5601.6	-1822.93	-923.86	-455.05	-223.85	-146.8	-85	-58.39	-38.19	-14.51	-8.23	-8.23	-5601.6
11/28/1986	-5601.64	-1822.73	-923.65	-455.03	-223.92	-146.94	-85.18	-58.58	-38.38	-14.63	-8.37	-8.37	-5601.64
12/31/1986	-5421.04	-1863.05	-923.44	-454.78	-223.66	-146.78	-85.09	-58.52	-38.34	-14.51	-8.3	-8.3	-5421.04
01/30/1987	-5794.61	-1863.14	-923.51	-454.87	-223.79	-146.89	-85.19	-58.62	-38.45	-14.61	-8.39	-8.39	-5794.61
02/27/1987	-6001.9	-1884.28	-923.6	-454.81	-223.75	-146.86	-85.19	-58.65	-38.53	-14.8	-8.25	-8.25	-6001.9
03/31/1987	-5601.52	-1842.68	-913.22	-453.35	-223.49	-146.62	-84.87	-58.33	-38.22	-14.6	-7.84	-7.84	-5601.52
04/30/1987	-5422.18	-1822.6	-908.04	-452.68	-222.67	-145.75	-84.04	-57.58	-37.55	-14.13	-7.18	-7.18	-5422.18
05/29/1987	-5420.62	-1822.47	-907.81	-452.46	-222.33	-145.45	-83.77	-57.33	-37.32	-14	-7	-7	-5420.62
06/30/1987	-5420.85	-1822.43	-907.95	-452.7	-222.63	-145.65	-83.89	-57.4	-37.36	-13.95	-7.28	-7.28	-5420.85
07/31/1987	-5420.69	-1822.07	-907.67	-452.68	-222.54	-145.52	-83.71	-57.18	-37.08	-13.65	-6.8	-6.8	-5420.69
08/31/1987	-5601.06	-1841.96	-917.55	-452.3	-222.17	-145.21	-83.4	-56.85	-36.79	-13.4	-6.48	-6.48	-5601.06
09/30/1987	-5419.38	-1821.55	-911.83	-451.65	-221.49	-144.5	-82.7	-56.17	-36.15	-12.81	-5.88	-5.88	-5419.38
10/30/1987	-5421.52	-1822.88	-912.77	-452.51	-222.34	-145.29	-83.42	-56.83	-36.85	-13.59	-6.55	-6.55	-5421.52
11/30/1987	-5422.38	-1842.87	-912.66	-452.41	-222.3	-145.28	-83.38	-56.76	-36.74	-13.46	-6.63	-6.63	-5422.38
12/31/1987	-5422.36	-1842.55	-917.68	-452.28	-222.29	-145.34	-83.52	-56.96	-36.95	-13.73	-6.66	-6.66	-5422.36
01/29/1988	-5421.3	-1842.55	-917.88	-452.74	-222.84	-145.95	-84.15	-57.56	-37.54	-14.21	-7.28	-7.28	-5421.3
02/29/1988	-5420.69	-1822.49	-908.05	-454.15	-223.28	-146.22	-84.33	-57.72	-37.61	-14.22	-7.31	-7.31	-5420.69
03/31/1988	-5601.38	-1842.49	-912.86	-453.92	-223.01	-145.87	-83.92	-57.28	-37.17	-13.76	-6.9	-6.9	-5601.38
04/29/1988	-5601.14	-1842.21	-912.56	-453.63	-222.71	-145.57	-83.64	-57.03	-36.91	-13.46	-6.61	-6.61	-5601.14
05/31/1988	-5600.84	-1821.57	-912.02	-453.1	-222.19	-145.13	-83.26	-56.67	-36.62	-13.21	-6.42	-6.42	-5600.84
06/30/1988	-5419.51	-1821.51	-907.11	-453.24	-222.4	-145.4	-83.6	-57.05	-37.02	-13.59	-6.85	-6.85	-5419.51
07/29/1988	-5419.76	-1821.16	-906.71	-452.84	-221.99	-145.05	-83.29	-56.75	-36.73	-13.27	-6.51	-6.51	-5419.76
08/31/1988	-5599.32	-1840.8	-921.41	-452.43	-221.7	-144.78	-83.09	-56.62	-36.67	-13.33	-6.36	-6.36	-5599.32
09/30/1988	-5418.72	-1820.75	-916.34	-452.6	-221.97	-145.07	-83.42	-56.99	-37.03	-13.65	-6.72	-6.72	-5418.72
10/31/1988	-5599.86	-1820.67	-921.44	-452.74	-222.16	-145.32	-83.67	-57.22	-37.27	-13.93	-7	-7	-5599.86
11/30/1988	-5419.21	-1860.72	-915.78	-452.08	-221.53	-144.71	-83.14	-56.76	-36.89	-13.7	-6.62	-6.62	-5419.21
12/30/1988	-5419.54	-1860.47	-915.46	-451.7	-221.25	-144.43	-82.92	-56.6	-36.88	-13.87	-6.83	-6.83	-5419.54
01/31/1989	-5999.31	-1881.2	-920.46	-451.72	-221.3	-144.5	-83.04	-56.77	-37.07	-14.03	-7.07	-7.07	-5999.31
02/28/1989	-5418.27	-1819.21	-904.95	-451.23	-220.86	-143.94	-82.66	-56.39	-36.73	-13.7	-6.81	-6.81	-5418.27
03/31/1989	-5597.86	-1839.07	-909.65	-450.96	-220.65	-143.78	-82.6	-56.42	-36.8	-13.78	-6.81	-6.81	-5597.86
04/28/1989	-5598.09	-1839.59	-910.18	-451.54	-221.18	-144.3	-83.01	-56.71	-37	-13.93	-6.96	-6.96	-5598.09
05/31/1989	-5598.26	-1819.32	-910.26	-451.83	-221.61	-144.68	-83.39	-57.12	-37.38	-14.22	-7.18	-7.18	-5598.26

ESTIMATED ZERO BOND 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	-5417.52	-1819.96	-905.99	-452.51	-222.35	-145.38	-83.99	-57.63	-37.86	-14.78	-7.71	-7.71	-5417.52
07/31/1989	-5417.93	-1820.2	-906.38	-453.02	-222.88	-145.91	-84.46	-58.01	-38.1	-14.89	-7.66	-7.66	-5417.93
08/31/1989	-5598.92	-1840.18	-921.1	-452.4	-222.06	-145.12	-83.79	-57.48	-37.72	-14.61	-7.49	-7.49	-5598.92
09/29/1989	-5598.97	-1840.15	-920.95	-452.25	-222.01	-145.03	-83.7	-57.41	-37.66	-14.55	-7.51	-7.51	-5598.97
10/31/1989	-5598.96	-1820.24	-921.36	-452.85	-222.57	-145.56	-84.16	-57.8	-38.02	-14.93	-7.68	-7.68	-5598.96
11/30/1989	-5419.35	-1860.99	-916.4	-453.03	-222.67	-145.67	-84.26	-57.89	-38.05	-14.92	-7.74	-7.74	-5419.35
12/29/1989	-5419.72	-1860.96	-916.33	-452.91	-222.51	-145.54	-84.13	-57.76	-37.94	-14.85	-7.68	-7.68	-5419.72
01/31/1990	-5999.97	-1881.81	-921.23	-452.61	-222.09	-145.08	-83.68	-57.32	-37.46	-14.3	-7.36	-7.36	-5999.97
02/28/1990	-5418.35	-1820.21	-906.03	-452.65	-221.67	-144.96	-83.55	-57.2	-37.35	-14.24	-7.19	-7.19	-5418.35
03/30/1990	-5417.73	-1820.14	-905.92	-452.39	-221.42	-144.74	-83.39	-57.09	-37.26	-14.13	-7.15	-7.15	-5417.73
04/30/1990	-5418.27	-1820.12	-905.77	-452.12	-221.11	-144.41	-83.03	-56.7	-36.88	-13.77	-6.79	-6.79	-5418.27
05/31/1990	-5599.92	-1820.2	-911.04	-452.58	-221.61	-144.89	-83.47	-57.12	-37.29	-14.21	-7.15	-7.15	-5599.92
06/29/1990	-5599.18	-1820.21	-911.13	-452.73	-221.86	-145.12	-83.67	-57.3	-37.46	-14.38	-7.3	-7.3	-5599.18
07/31/1990	-5418.31	-1820.48	-906.45	-453.02	-222.18	-145.42	-83.89	-57.43	-37.51	-14.38	-7.22	-7.22	-5418.31
08/31/1990	-5599.21	-1840.7	-921.58	-452.92	-221.98	-145.11	-83.47	-56.96	-36.94	-13.71	-6.68	-6.68	-5599.21
09/28/1990	-5599.64	-1840.95	-921.73	-453	-222.09	-145.2	-83.54	-57.01	-36.99	-13.78	-6.66	-6.66	-5599.64
10/31/1990	-5600.06	-1820.91	-921.89	-453.28	-222.33	-145.45	-83.76	-57.2	-37.16	-13.92	-6.85	-6.85	-5600.06
11/30/1990	-5419.05	-1861.61	-916.83	-453.43	-222.53	-145.7	-84.07	-57.54	-37.56	-14.34	-7.2	-7.2	-5419.05
12/31/1990	-5420.4	-1862.2	-922.55	-453.84	-222.88	-145.97	-84.28	-57.71	-37.68	-14.44	-7.34	-7.34	-5420.4
01/31/1991	-6001.67	-1883.51	-922.87	-454.15	-223.03	-146.09	-84.36	-57.78	-37.74	-14.5	-7.37	-7.37	-6001.67
02/28/1991	-5420.31	-1822	-907.86	-453.03	-223.07	-146.09	-84.3	-57.77	-37.72	-14.45	-7.42	-7.42	-5420.31
03/28/1991	-5419.98	-1822.31	-908.08	-453.13	-223.05	-146.01	-84.21	-57.7	-37.68	-14.42	-7.33	-7.33	-5419.98
04/30/1991	-5420.42	-1822.59	-908.36	-453.34	-223.23	-146.17	-84.3	-57.73	-37.72	-14.5	-7.34	-7.34	-5420.42
05/31/1991	-5601.92	-1822.59	-913.3	-453.31	-223.3	-146.19	-84.28	-57.7	-37.66	-14.4	-7.26	-7.26	-5601.92
06/28/1991	-5601.56	-1822.59	-913.24	-453.14	-223.19	-145.97	-84.04	-57.49	-37.5	-14.23	-7.08	-7.08	-5601.56
07/31/1991	-5420.34	-1822.6	-908.29	-453.34	-223.32	-146.14	-84.2	-57.61	-37.59	-14.33	-7.12	-7.12	-5420.34
08/30/1991	-5420.56	-1822.8	-913.57	-453.78	-223.82	-146.6	-84.59	-57.95	-37.9	-14.62	-7.35	-7.35	-5420.56
09/30/1991	-5420.88	-1823.01	-913.83	-454.07	-224.11	-146.95	-84.97	-58.34	-38.22	-14.82	-7.51	-7.51	-5420.88
10/31/1991	-5602.02	-1823.33	-919.2	-454.42	-224.43	-147.21	-85.12	-58.39	-38.19	-14.74	-7.28	-7.28	-5602.02
11/29/1991	-5602.75	-1823.81	-919.64	-454.79	-224.75	-147.45	-85.26	-58.47	-38.22	-14.64	-7.12	-7.12	-5602.75
12/31/1991	-5422.14	-1844.46	-920.25	-455.38	-225.38	-148.03	-85.86	-59.12	-38.83	-15.14	-7.61	-7.61	-5422.14
01/31/1992	-5796.54	-1864.98	-920.19	-455.22	-224.99	-147.56	-85.3	-58.51	-38.28	-14.83	-7.41	-7.41	-5796.54
02/28/1992	-5796.33	-1864.91	-920.09	-455.15	-224.88	-147.43	-85.23	-58.51	-38.3	-14.84	-7.33	-7.33	-5796.33
03/31/1992	-5602.74	-1844.26	-914.87	-456.22	-224.8	-147.17	-84.94	-58.26	-38.11	-14.7	-7.28	-7.28	-5602.74

ESTIMATED ZERO BOND 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	-5422.53	-1824.52	-910.22	-456.49	-225.04	-147.35	-85	-58.22	-38.02	-14.57	-7.15	-7.15	-5422.53
05/29/1992	-5422.4	-1824.53	-910.24	-456.61	-225.3	-147.66	-85.32	-58.53	-38.26	-14.76	-7.34	-7.34	-5422.4
06/30/1992	-5422.39	-1824.65	-910.37	-456.77	-225.64	-148	-85.61	-58.76	-38.42	-14.73	-7.29	-7.29	-5422.39
07/31/1992	-5422.86	-1825.05	-910.8	-457.18	-226.07	-148.45	-86.07	-59.22	-38.85	-15.08	-7.53	-7.53	-5422.86
08/31/1992	-5603.74	-1845.18	-925.99	-457.37	-226.35	-148.71	-86.24	-59.31	-38.87	-15.01	-7.55	-7.55	-5603.74
09/30/1992	-5423.29	-1825.53	-921.28	-457.74	-226.68	-149.05	-86.55	-59.56	-39.04	-15.04	-7.41	-7.41	-5423.29
10/30/1992	-5423.24	-1825.27	-920.93	-457.21	-226.01	-148.38	-85.97	-59.09	-38.7	-14.87	-7.26	-7.26	-5423.24
11/30/1992	-5423.24	-1865.6	-920.65	-456.94	-225.62	-147.99	-85.67	-58.9	-38.63	-14.97	-7.41	-7.41	-5423.24
12/31/1992	-5423.07	-1865.77	-925.94	-457.2	-225.92	-148.24	-85.89	-59.12	-38.84	-15.16	-7.62	-7.62	-5423.07
01/29/1993	-5604.09	-1865.96	-926.17	-457.39	-226.25	-148.7	-86.36	-59.5	-39.14	-15.29	-7.74	-7.74	-5604.09
02/26/1993	-6004.53	-1886.92	-926.19	-457.5	-226.54	-149.05	-86.71	-59.84	-39.48	-15.55	-8.01	-8.01	-6004.53
03/31/1993	-5604.01	-1845.45	-916.06	-457.48	-226.52	-148.87	-86.69	-59.82	-39.45	-15.48	-7.98	-7.98	-5604.01
04/30/1993	-5423.1	-1825.34	-911.1	-457.56	-226.67	-149.01	-86.78	-59.85	-39.48	-15.5	-7.92	-7.92	-5423.1
05/28/1993	-5422.97	-1825.17	-910.87	-457.19	-226.25	-148.71	-86.61	-59.76	-39.44	-15.55	-7.94	-7.94	-5422.97
06/30/1993	-5423.1	-1825.19	-910.93	-457.33	-226.44	-148.96	-86.94	-60.16	-39.87	-15.9	-8.2	-8.2	-5423.1
07/30/1993	-5423.06	-1825.21	-910.91	-457.28	-226.34	-148.85	-86.85	-60.1	-39.89	-16.1	-8.41	-8.41	-5423.06
08/31/1993	-5603.91	-1845.34	-926.12	-457.44	-226.6	-149.2	-87.22	-60.44	-40.23	-16.42	-8.88	-8.88	-5603.91
09/30/1993	-5423.3	-1825.3	-921.06	-457.43	-226.58	-149.15	-87.22	-60.51	-40.28	-16.34	-8.94	-8.94	-5423.3
10/29/1993	-5423.11	-1825.19	-920.95	-457.34	-226.46	-149.08	-87.17	-60.46	-40.26	-16.41	-9.01	-9.01	-5423.11
11/30/1993	-5423.12	-1865.75	-920.83	-457.22	-226.25	-148.81	-86.84	-60.08	-39.87	-16.13	-8.77	-8.77	-5423.12
12/31/1993	-5423.01	-1865.84	-926.01	-457.17	-226.24	-148.77	-86.81	-60.08	-39.87	-16.09	-8.73	-8.73	-5423.01
01/31/1994	-6004.52	-1886.9	-926.1	-457.33	-226.35	-148.94	-87	-60.26	-40.09	-16.28	-8.81	-8.81	-6004.52
02/28/1994	-5423.01	-1824.87	-910.48	-456.78	-225.44	-148.33	-86.4	-59.68	-39.51	-15.84	-8.45	-8.45	-5423.01
03/31/1994	-5603.41	-1844.82	-915.22	-456.3	-224.89	-147.7	-85.74	-59.03	-38.9	-15.46	-8.09	-8.09	-5603.41
04/29/1994	-5603.27	-1844.44	-914.74	-455.78	-224.36	-147.23	-85.38	-58.76	-38.67	-15.32	-7.98	-7.98	-5603.27
05/31/1994	-5602.97	-1824.06	-914.34	-455.51	-224.1	-147.04	-85.25	-58.66	-38.58	-15.15	-7.9	-7.9	-5602.97
06/30/1994	-5422.41	-1824.01	-909.29	-455.36	-223.95	-146.87	-85.07	-58.47	-38.39	-15.01	-7.77	-7.77	-5422.41
07/29/1994	-5421.98	-1823.93	-909.33	-455.46	-224.11	-147.1	-85.32	-58.7	-38.64	-15.33	-7.97	-7.97	-5421.98
08/31/1994	-5602.49	-1843.74	-924.32	-455.33	-223.99	-146.99	-85.24	-58.65	-38.56	-15.14	-7.86	-7.86	-5602.49
09/30/1994	-5421.46	-1823.49	-918.77	-454.91	-223.53	-146.5	-84.76	-58.2	-38.14	-14.77	-7.54	-7.54	-5421.46
10/31/1994	-5602.42	-1823.13	-923.67	-454.7	-223.3	-146.29	-84.56	-58.02	-37.98	-14.72	-7.39	-7.39	-5602.42
11/30/1994	-5421.18	-1863.25	-918.01	-453.97	-222.68	-145.82	-84.29	-57.9	-37.98	-14.81	-7.44	-7.44	-5421.18
12/30/1994	-5421.52	-1863.17	-917.65	-453.56	-222.38	-145.65	-84.25	-57.92	-38.09	-14.95	-7.64	-7.64	-5421.52
01/31/1995	-6002.05	-1883.93	-922.93	-453.97	-222.84	-146.02	-84.53	-58.15	-38.28	-15.12	-7.76	-7.76	-6002.05

ESTIMATED ZERO BOND 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	-5420.76	-1822.37	-908.02	-453.13	-223.33	-146.52	-84.94	-58.54	-38.61	-15.25	-7.94	-7.94	-5420.76
03/31/1995	-5600.97	-1842.49	-913.02	-453.11	-223.31	-146.52	-84.94	-58.54	-38.59	-15.29	-7.98	-7.98	-5600.97
04/28/1995	-5601.06	-1842.52	-913.11	-453.27	-223.52	-146.73	-85.14	-58.74	-38.74	-15.37	-8.02	-8.02	-5601.06
05/31/1995	-5601.17	-1822.49	-913.33	-453.76	-224.25	-147.52	-85.94	-59.52	-39.5	-16.02	-8.65	-8.65	-5601.17
06/30/1995	-5420.55	-1822.67	-908.52	-453.87	-224.28	-147.57	-86.02	-59.6	-39.57	-16.1	-8.69	-8.69	-5420.55
07/31/1995	-5420.41	-1822.7	-908.58	-453.9	-224.22	-147.43	-85.8	-59.36	-39.33	-15.89	-8.42	-8.42	-5420.41
08/31/1995	-5601.45	-1842.94	-918.65	-453.92	-224.28	-147.51	-85.93	-59.51	-39.49	-16.07	-8.62	-8.62	-5601.45
09/29/1995	-5601.47	-1842.93	-918.63	-453.86	-224.25	-147.54	-85.99	-59.61	-39.61	-16.19	-8.77	-8.77	-5601.47
10/31/1995	-5601.74	-1822.81	-918.68	-454.01	-224.48	-147.74	-86.18	-59.79	-39.81	-16.43	-8.92	-8.92	-5601.74
11/30/1995	-5420.41	-1842.91	-913.72	-454.2	-224.73	-148.03	-86.46	-60.05	-40.04	-16.59	-9.12	-9.12	-5420.41
12/29/1995	-5421.31	-1843.28	-913.98	-454.38	-224.92	-148.19	-86.62	-60.22	-40.23	-16.79	-9.35	-9.35	-5421.31
01/31/1996	-5795.44	-1863.86	-919.23	-454.64	-225.15	-148.37	-86.72	-60.23	-40.19	-16.71	-9.22	-9.22	-5795.44
02/29/1996	-5421.04	-1823.28	-909.12	-455.64	-225	-148.04	-86.26	-59.73	-39.66	-16.18	-8.76	-8.76	-5421.04
03/29/1996	-5420.67	-1823.13	-908.95	-455.36	-224.62	-147.65	-85.92	-59.44	-39.41	-15.94	-8.6	-8.6	-5420.67
04/30/1996	-5421.01	-1823.2	-908.88	-455.2	-224.37	-147.36	-85.62	-59.13	-39.12	-15.75	-8.44	-8.44	-5421.01
05/31/1996	-5601.74	-1823.09	-913.81	-455.08	-224.19	-147.14	-85.4	-58.95	-38.99	-15.68	-8.37	-8.37	-5601.74
06/28/1996	-5601.97	-1823.07	-913.78	-455.07	-224.28	-147.28	-85.57	-59.11	-39.13	-15.82	-8.46	-8.46	-5601.97
07/31/1996	-5420.96	-1822.96	-908.68	-454.94	-224.22	-147.2	-85.48	-59.04	-39.08	-15.79	-8.37	-8.37	-5420.96
08/30/1996	-5420.84	-1823.03	-918.73	-454.96	-224.09	-147.05	-85.32	-58.88	-38.91	-15.58	-8.24	-8.24	-5420.84
09/30/1996	-5420.88	-1823.18	-918.86	-455.09	-224.32	-147.3	-85.58	-59.12	-39.14	-15.79	-8.42	-8.42	-5420.88
10/31/1996	-5601.85	-1823.13	-924.04	-455.36	-224.68	-147.68	-85.96	-59.5	-39.5	-16.11	-8.69	-8.69	-5601.85
11/29/1996	-5601.8	-1843.25	-924.08	-455.43	-224.83	-147.9	-86.23	-59.79	-39.8	-16.38	-8.93	-8.93	-5601.8
12/31/1996	-5420.97	-1863.81	-924	-455.25	-224.53	-147.54	-85.84	-59.4	-39.46	-16.12	-8.66	-8.66	-5420.97
01/31/1997	-6002.31	-1884.76	-924.03	-455.23	-224.49	-147.5	-85.78	-59.33	-39.35	-15.98	-8.5	-8.5	-6002.31
02/28/1997	-5420.9	-1823.09	-908.81	-455.13	-224.33	-147.2	-85.66	-59.22	-39.29	-15.93	-8.48	-8.48	-5420.9
03/31/1997	-5601.55	-1843.05	-913.58	-454.79	-223.98	-146.83	-85.28	-58.84	-38.94	-15.66	-8.24	-8.24	-5601.55
04/30/1997	-5420.96	-1823.01	-908.57	-454.91	-224.14	-147.01	-85.47	-59.02	-39.12	-15.82	-8.37	-8.37	-5420.96
05/30/1997	-5421.58	-1823.19	-908.73	-454.97	-224.23	-147.09	-85.55	-59.12	-39.21	-15.88	-8.42	-8.42	-5421.58
06/30/1997	-5420.82	-1823.06	-908.86	-455.08	-224.34	-147.21	-85.68	-59.25	-39.34	-16.02	-8.54	-8.54	-5420.82
07/31/1997	-5420.83	-1823.07	-908.94	-455.29	-224.7	-147.65	-86.16	-59.74	-39.84	-16.52	-9.04	-9.04	-5420.83
08/29/1997	-5421.16	-1823.07	-913.77	-455.13	-224.44	-147.34	-85.83	-59.4	-39.5	-16.2	-8.72	-8.72	-5421.16
09/30/1997	-5421.1	-1823.27	-918.97	-455.23	-224.61	-147.55	-86.06	-59.63	-39.74	-16.43	-8.93	-8.93	-5421.1
10/31/1997	-5601.85	-1823.02	-924.04	-455.31	-224.75	-147.75	-86.29	-59.88	-39.99	-16.68	-9.18	-9.18	-5601.85
11/28/1997	-5601.76	-1823.03	-923.89	-455.14	-224.59	-147.61	-86.21	-59.84	-40.01	-16.79	-9.27	-9.27	-5601.76

ESTIMATED ZERO BOND 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	-5421.1	-1863.59	-923.87	-455.25	-224.74	-147.76	-86.36	-59.99	-40.16	-16.93	-9.41	-9.41	-5421.1
01/30/1998	-5795.16	-1863.71	-924.05	-455.48	-225.06	-148.09	-86.65	-60.24	-40.34	-17.01	-9.51	-9.51	-5795.16
02/27/1998	-6002.3	-1884.64	-923.96	-455.33	-224.86	-147.87	-86.46	-60.09	-40.22	-16.92	-9.4	-9.4	-6002.3
03/31/1998	-5601.49	-1843.23	-913.9	-455.32	-224.49	-147.83	-86.42	-60.03	-40.16	-16.92	-9.4	-9.4	-5601.49
04/30/1998	-5421.24	-1823.27	-908.89	-455.34	-224.49	-147.83	-86.41	-60.02	-40.15	-16.89	-9.4	-9.4	-5421.24
05/29/1998	-5421.35	-1823.24	-908.83	-455.32	-224.54	-147.87	-86.48	-60.12	-40.29	-17.03	-9.52	-9.52	-5421.35
06/30/1998	-5421.12	-1823.25	-908.87	-455.33	-224.59	-147.94	-86.56	-60.2	-40.41	-17.24	-9.73	-9.73	-5421.12
07/31/1998	-5421.14	-1823.17	-908.93	-455.35	-224.6	-147.93	-86.54	-60.19	-40.36	-17.14	-9.66	-9.66	-5421.14
08/31/1998	-5602.06	-1843.49	-924.32	-455.78	-225.22	-148.55	-87.11	-60.7	-40.8	-17.51	-10.06	-10.06	-5602.06
09/30/1998	-5422.46	-1823.96	-919.71	-456.23	-225.73	-149.1	-87.69	-61.3	-41.24	-17.63	-10.25	-10.25	-5422.46
10/30/1998	-5422.39	-1823.86	-919.85	-456.42	-225.8	-149.09	-87.6	-61.15	-41.04	-17.37	-10.19	-10.19	-5422.39
11/30/1998	-5421.44	-1864.4	-919.63	-456.17	-225.54	-148.83	-87.38	-60.99	-41.03	-17.51	-10.23	-10.23	-5421.44
12/31/1998	-5421.55	-1864.48	-924.76	-456.2	-225.48	-148.78	-87.38	-61.03	-40.99	-17.42	-10.21	-10.21	-5421.55
01/29/1999	-5602.4	-1864.45	-924.82	-456.19	-225.47	-148.81	-87.4	-61.02	-41	-17.49	-10.23	-10.23	-5602.4
02/26/1999	-6003.05	-1885.25	-924.6	-455.79	-224.92	-148.17	-86.71	-60.33	-40.38	-17.02	-9.79	-9.79	-6003.05
03/31/1999	-5602.11	-1843.92	-914.59	-454.73	-225.08	-148.28	-86.72	-60.35	-40.35	-16.93	-9.68	-9.68	-5602.11
04/30/1999	-5421.41	-1823.73	-909.53	-454.7	-224.99	-148.22	-86.69	-60.35	-40.33	-16.94	-9.65	-9.65	-5421.41
05/28/1999	-5421.48	-1823.62	-909.34	-454.5	-224.65	-147.83	-86.29	-59.96	-40.05	-16.79	-9.56	-9.56	-5421.48
06/30/1999	-5421.62	-1823.55	-909.22	-454.42	-224.57	-147.76	-86.21	-59.85	-39.91	-16.64	-9.46	-9.46	-5421.62
07/30/1999	-5421.46	-1823.53	-909.3	-454.33	-224.45	-147.61	-86.04	-59.67	-39.75	-16.55	-9.34	-9.34	-5421.46
08/31/1999	-5602.24	-1843.47	-919.08	-454.15	-224.34	-147.53	-85.95	-59.58	-39.68	-16.45	-9.41	-9.41	-5602.24
09/30/1999	-5421.46	-1823.5	-914.21	-454.21	-224.44	-147.65	-86.07	-59.68	-39.72	-16.46	-9.4	-9.4	-5421.46
10/29/1999	-5421.52	-1823.18	-913.94	-454.02	-224.26	-147.46	-85.92	-59.57	-39.65	-16.41	-9.32	-9.32	-5421.52
11/30/1999	-5421.25	-1843.17	-913.61	-453.75	-224.06	-147.31	-85.79	-59.45	-39.51	-16.34	-9.18	-9.18	-5421.25
12/31/1999	-5420.88	-1843.04	-918.5	-453.5	-223.84	-147.06	-85.52	-59.18	-39.29	-16.15	-9.05	-9.05	-5420.88
01/31/2000	-5794.72	-1863.21	-918.31	-453.22	-223.43	-146.74	-85.29	-59	-39.27	-16.38	-9.05	-9.05	-5794.72
02/29/2000	-5420.5	-1822.53	-908.16	-454.5	-223.84	-146.94	-85.4	-59.11	-39.46	-16.68	-9.41	-9.41	-5420.5
03/31/2000	-5600.83	-1842.52	-913.02	-454.46	-223.89	-147.13	-85.73	-59.51	-39.82	-16.91	-9.7	-9.7	-5600.83
04/28/2000	-5601.39	-1842.49	-913.03	-454.29	-223.7	-146.94	-85.53	-59.31	-39.67	-16.81	-9.54	-9.54	-5601.39
05/31/2000	-5602.07	-1822.66	-912.86	-454.13	-223.67	-146.91	-85.53	-59.31	-39.62	-16.7	-9.54	-9.54	-5602.07
06/30/2000	-5420.3	-1822.4	-907.94	-454.39	-223.97	-147.22	-85.81	-59.56	-39.82	-16.8	-9.61	-9.61	-5420.3
07/31/2000	-5419.97	-1822.28	-907.75	-454.38	-224.05	-147.27	-85.85	-59.6	-39.9	-16.95	-9.75	-9.75	-5419.97
08/31/2000	-5600.63	-1842.05	-922.96	-454.45	-224.22	-147.47	-86.08	-59.85	-40.12	-17.1	-9.83	-9.83	-5600.63
09/29/2000	-5600.86	-1842.14	-923.01	-454.51	-224.39	-147.64	-86.17	-59.87	-40.02	-16.86	-9.59	-9.59	-5600.86

ESTIMATED ZERO BOND 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	-5600.68	-1821.95	-922.95	-454.48	-224.44	-147.68	-86.24	-59.95	-40.13	-16.97	-9.69	-9.69	-5600.68
11/30/2000	-5419.86	-1862.67	-918	-454.72	-224.74	-147.98	-86.55	-60.28	-40.41	-17.17	-9.83	-9.83	-5419.86
12/29/2000	-5420.12	-1863.02	-918.47	-455.29	-225.21	-148.43	-86.94	-60.63	-40.69	-17.3	-9.94	-9.94	-5420.12
01/31/2001	-6002.46	-1884.87	-924.53	-456.09	-225.73	-148.77	-87.12	-60.71	-40.69	-17.24	-9.85	-9.85	-6002.46
02/28/2001	-5421.03	-1823.45	-909.47	-456.27	-225.93	-148.81	-87.27	-60.84	-40.84	-17.34	-9.96	-9.96	-5421.03
03/30/2001	-5421.44	-1824.05	-909.98	-456.65	-226.13	-148.95	-87.35	-60.86	-40.78	-17.19	-9.82	-9.82	-5421.44
04/30/2001	-5422.15	-1824.4	-910.21	-456.78	-226.05	-148.74	-87.02	-60.47	-40.39	-16.86	-9.51	-9.51	-5422.15
05/31/2001	-5603.38	-1824.68	-915.59	-457.05	-226.14	-148.76	-86.99	-60.44	-40.35	-16.86	-9.61	-9.61	-5603.38
06/29/2001	-5603.42	-1824.65	-915.52	-456.94	-226.08	-148.71	-86.95	-60.39	-40.33	-16.89	-9.6	-9.6	-5603.42
07/31/2001	-5422.26	-1824.77	-910.72	-457.36	-226.55	-149.16	-87.36	-60.78	-40.68	-17.16	-9.76	-9.76	-5422.26
08/31/2001	-5603.39	-1845.02	-926.02	-457.51	-226.74	-149.33	-87.53	-60.96	-40.86	-17.33	-9.92	-9.92	-5603.39
09/28/2001	-5604.46	-1846.01	-926.92	-458.31	-227.55	-149.98	-87.99	-61.29	-41	-17.21	-9.78	-9.78	-5604.46
10/31/2001	-5604.64	-1826.27	-927.38	-458.9	-228.03	-150.4	-88.37	-61.65	-41.39	-17.64	-10.46	-10.46	-5604.64
11/30/2001	-5424.14	-1867.14	-922.41	-458.84	-227.55	-149.85	-87.8	-61.1	-40.82	-17.1	-10.08	-10.08	-5424.14
12/31/2001	-5424.29	-1867.23	-927.53	-458.9	-227.34	-149.56	-87.48	-60.8	-40.56	-16.96	-9.88	-9.88	-5424.29
01/31/2002	-6005.6	-1888.18	-927.43	-458.64	-227.3	-149.54	-87.48	-60.81	-40.62	-17.05	-9.94	-9.94	-6005.6
02/28/2002	-5424.18	-1826.55	-912.32	-458.71	-227.09	-149.7	-87.65	-60.96	-40.72	-17.1	-9.89	-9.89	-5424.18
03/28/2002	-5424.19	-1826.54	-912.08	-458.15	-226.39	-149.01	-87.02	-60.38	-40.21	-16.72	-9.57	-9.57	-5424.19
04/30/2002	-5424.17	-1826.56	-912.29	-458.66	-226.88	-149.47	-87.44	-60.77	-40.57	-17	-9.69	-9.69	-5424.17
05/31/2002	-5605.09	-1826.59	-917.3	-458.6	-226.91	-149.62	-87.6	-60.88	-40.61	-16.93	-9.67	-9.67	-5605.09
06/28/2002	-5605.12	-1826.62	-917.41	-458.9	-227.24	-149.92	-87.87	-61.13	-40.79	-17	-9.71	-9.71	-5605.12
07/31/2002	-5424.22	-1826.61	-912.47	-459.21	-227.91	-150.54	-88.39	-61.56	-41.11	-17.15	-9.89	-9.89	-5424.22
08/30/2002	-5424.25	-1826.64	-922.55	-459.16	-228.03	-150.8	-88.72	-61.9	-41.48	-17.54	-10.35	-10.35	-5424.25
09/30/2002	-5424.35	-1826.74	-922.7	-459.43	-228.42	-151.32	-89.31	-62.49	-41.95	-17.79	-10.51	-10.51	-5424.35
10/31/2002	-5605.33	-1826.86	-927.89	-459.52	-228.42	-151.23	-89.11	-62.23	-41.64	-17.46	-10.12	-10.12	-5605.33
11/29/2002	-5605.56	-1847.18	-928.02	-459.39	-228	-150.73	-88.64	-61.83	-41.38	-17.41	-10.24	-10.24	-5605.56
12/31/2002	-5424.79	-1867.76	-928.09	-459.67	-228.53	-151.31	-89.18	-62.32	-41.79	-17.69	-10.41	-10.41	-5424.79
01/31/2003	-6006.13	-1888.77	-928.12	-459.58	-228.45	-151.13	-88.98	-62.13	-41.66	-17.64	-10.43	-10.43	-6006.13
02/28/2003	-5424.73	-1827.1	-912.95	-458.37	-228.65	-151.42	-89.25	-62.45	-41.96	-17.86	-10.51	-10.51	-5424.73
03/31/2003	-5605.65	-1847.29	-918.03	-458.44	-228.66	-151.38	-89.16	-62.33	-41.82	-17.7	-10.37	-10.37	-5605.65
04/30/2003	-5424.82	-1827.19	-913.02	-458.44	-228.68	-151.36	-89.13	-62.29	-41.83	-17.78	-10.45	-10.45	-5424.82
05/30/2003	-5424.79	-1827.2	-913.06	-458.4	-228.82	-151.75	-89.65	-62.82	-42.34	-18.2	-10.82	-10.82	-5424.79
06/30/2003	-5425.14	-1827.44	-913.19	-458.54	-228.87	-151.69	-89.52	-62.67	-42.18	-18.04	-10.57	-10.57	-5425.14
07/31/2003	-5425.05	-1827.25	-913.47	-458.31	-228.44	-151.02	-88.66	-61.73	-41.2	-17.14	-9.85	-9.85	-5425.05

ESTIMATED ZERO BOND 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	-5424.95	-1827.31	-913.09	-458.27	-228.23	-150.79	-88.5	-61.66	-41.21	-17.26	-10.15	-10.15	-5424.95
09/30/2003	-5425.08	-1827.4	-918.15	-458.53	-228.74	-151.4	-89.14	-62.27	-41.75	-17.65	-10.35	-10.35	-5425.08
10/31/2003	-5605.85	-1827.38	-923.17	-458.3	-228.35	-150.97	-88.71	-61.88	-41.4	-17.39	-10.17	-10.17	-5605.85
11/28/2003	-5605.86	-1827.39	-923.18	-458.12	-228.13	-150.81	-88.62	-61.84	-41.39	-17.4	-10.21	-10.21	-5605.86
12/31/2003	-5425.06	-1847.51	-923.22	-458.36	-228.35	-150.99	-88.75	-61.93	-41.47	-17.48	-10.24	-10.24	-5425.06
01/30/2004	-5605.96	-1847.5	-923.21	-458.35	-228.36	-151.03	-88.82	-62.02	-41.58	-17.6	-10.38	-10.38	-5605.96
02/27/2004	-5799.19	-1867.99	-923.2	-458.47	-228.53	-151.23	-89.03	-62.22	-41.76	-17.75	-10.42	-10.42	-5799.19
03/31/2004	-5605.85	-1847.47	-918.16	-459.73	-228.91	-151.5	-89.24	-62.39	-41.9	-17.82	-10.5	-10.5	-5605.85
04/30/2004	-5425.12	-1827.36	-913	-459.23	-228.14	-150.63	-88.38	-61.61	-41.21	-17.29	-10.12	-10.12	-5425.12
05/28/2004	-5425.01	-1827.25	-912.79	-459.02	-227.91	-150.42	-88.19	-61.45	-41.08	-17.26	-10.1	-10.1	-5425.01
06/30/2004	-5424.8	-1827.06	-912.5	-458.84	-227.78	-150.38	-88.23	-61.52	-41.16	-17.34	-10.11	-10.11	-5424.8
07/30/2004	-5424.66	-1826.89	-912.44	-458.79	-227.79	-150.43	-88.32	-61.62	-41.27	-17.43	-10.23	-10.23	-5424.66
08/31/2004	-5605.35	-1846.82	-927.54	-458.93	-228.12	-150.8	-88.71	-62.02	-41.64	-17.71	-10.47	-10.47	-5605.35
09/30/2004	-5424.46	-1826.63	-922.22	-458.67	-227.86	-150.65	-88.65	-62	-41.66	-17.78	-10.49	-10.49	-5424.46
10/29/2004	-5424.19	-1826.39	-922.07	-458.64	-227.91	-150.73	-88.74	-62.08	-41.75	-17.89	-10.62	-10.62	-5424.19
11/30/2004	-5423.91	-1866.72	-921.84	-458.19	-227.44	-150.28	-88.34	-61.72	-41.45	-17.69	-10.47	-10.47	-5423.91
12/31/2004	-5424.04	-1866.68	-926.71	-458.09	-227.37	-150.3	-88.43	-61.84	-41.61	-17.89	-10.7	-10.7	-5424.04
01/31/2005	-6005.16	-1887.47	-926.58	-457.88	-227.16	-150.14	-88.37	-61.87	-41.74	-18.18	-11	-11	-6005.16
02/28/2005	-5423.42	-1825.56	-911.18	-457.58	-226.83	-149.66	-88.05	-61.56	-41.51	-18.07	-10.93	-10.93	-5423.42
03/31/2005	-5604.17	-1845.6	-916.02	-457.47	-226.63	-149.48	-87.91	-61.43	-41.41	-18.01	-11.05	-11.05	-5604.17
04/29/2005	-5604.08	-1845.48	-915.98	-457.45	-226.78	-149.71	-88.19	-61.74	-41.72	-18.28	-11.22	-11.22	-5604.08
05/31/2005	-5604.02	-1825.32	-916.05	-457.46	-226.86	-149.83	-88.36	-61.95	-41.95	-18.52	-11.3	-11.3	-5604.02
06/30/2005	-5422.94	-1825.17	-910.85	-457.33	-226.8	-149.81	-88.38	-61.99	-42.03	-18.67	-11.47	-11.47	-5422.94
07/29/2005	-5422.68	-1824.9	-910.54	-456.93	-226.42	-149.39	-87.97	-61.6	-41.67	-18.4	-11.25	-11.25	-5422.68
08/31/2005	-5603.39	-1844.9	-925.62	-457.06	-226.62	-149.65	-88.24	-61.85	-41.93	-18.63	-11.43	-11.43	-5603.39
09/30/2005	-5422.74	-1824.78	-920.25	-456.71	-226.26	-149.29	-87.89	-61.52	-41.61	-18.32	-11.12	-11.12	-5422.74
10/31/2005	-5603.06	-1824.38	-925.11	-456.46	-226.04	-149.04	-87.64	-61.27	-41.37	-18.13	-11.02	-11.02	-5603.06
11/30/2005	-5422	-1865.02	-919.93	-456.38	-226.02	-149.07	-87.68	-61.32	-41.41	-18.16	-11.32	-11.32	-5422
12/30/2005	-5421.93	-1864.83	-919.84	-456.4	-226.02	-149.1	-87.75	-61.42	-41.57	-18.37	-11.29	-11.29	-5421.93
01/31/2006	-6002.94	-1885.46	-924.74	-456.23	-225.91	-148.97	-87.62	-61.29	-41.44	-18.25	-11.09	-11.09	-6002.94
02/28/2006	-5421.46	-1823.68	-909.42	-456.09	-225.42	-148.82	-87.5	-61.2	-41.4	-18.33	-10.98	-10.98	-5421.46
03/31/2006	-5602.13	-1843.76	-914.33	-455.95	-225.28	-148.65	-87.29	-60.94	-41.07	-17.93	-10.59	-10.59	-5602.13
04/28/2006	-5602.15	-1843.59	-914.23	-455.9	-225.24	-148.59	-87.18	-60.8	-40.87	-17.65	-10.29	-10.29	-5602.15
05/31/2006	-5602.01	-1823.43	-914.09	-455.65	-225.08	-148.45	-87.07	-60.71	-40.8	-17.61	-10.22	-10.22	-5602.01

ESTIMATED ZERO BOND 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	-5422.7	-1823.1	-909.01	-455.5	-224.94	-148.35	-87.01	-60.68	-40.82	-17.69	-10.26	-10.26	-5422.7
07/31/2006	-5420.83	-1823.18	-909.01	-455.71	-225.16	-148.56	-87.21	-60.87	-40.99	-17.82	-10.35	-10.35	-5420.83
08/31/2006	-5601.68	-1843.34	-924.2	-455.81	-225.36	-148.77	-87.44	-61.1	-41.22	-18.03	-10.52	-10.52	-5601.68
09/29/2006	-5602.14	-1843.5	-924.29	-455.89	-225.44	-148.87	-87.54	-61.2	-41.33	-18.15	-10.64	-10.64	-5602.14
10/31/2006	-5601.58	-1823.21	-924.19	-455.91	-225.44	-148.88	-87.57	-61.23	-41.36	-18.19	-10.7	-10.7	-5601.58
11/30/2006	-5420.76	-1863.88	-919.11	-455.96	-225.52	-148.99	-87.69	-61.37	-41.51	-18.33	-10.87	-10.87	-5420.76
12/29/2006	-5421.12	-1863.89	-919.13	-455.81	-225.31	-148.76	-87.44	-61.11	-41.25	-18.1	-10.61	-10.61	-5421.12
01/31/2007	-6002.25	-1884.79	-924.17	-455.78	-225.2	-148.64	-87.33	-61.01	-41.15	-18	-10.51	-10.51	-6002.25
02/28/2007	-5420.67	-1823.14	-909.07	-454.68	-225.47	-148.92	-87.55	-61.26	-41.38	-18.2	-10.72	-10.72	-5420.67
03/30/2007	-5420.82	-1823.25	-909.1	-454.65	-225.5	-148.94	-87.53	-61.2	-41.28	-18.04	-10.53	-10.53	-5420.82
04/30/2007	-5421.12	-1823.39	-909.15	-454.63	-225.52	-148.97	-87.56	-61.23	-41.32	-18.08	-10.56	-10.56	-5421.12
05/31/2007	-5602	-1823.55	-914.27	-454.49	-225.2	-148.61	-87.23	-60.93	-41.06	-17.9	-10.39	-10.39	-5602
06/29/2007	-5602.36	-1823.48	-914.23	-454.57	-225.23	-148.6	-87.14	-60.8	-40.92	-17.79	-10.28	-10.28	-5602.36
07/31/2007	-5420.77	-1823.37	-909.21	-454.8	-225.59	-148.97	-87.48	-61.1	-41.17	-17.99	-10.5	-10.5	-5420.77
08/31/2007	-5602.59	-1844.26	-919.98	-455.18	-225.93	-149.29	-87.76	-61.35	-41.34	-18.06	-10.51	-10.51	-5602.59
09/28/2007	-5603.36	-1844.6	-920.1	-455.5	-226.14	-149.41	-87.79	-61.32	-41.3	-18.05	-10.51	-10.51	-5603.36
10/31/2007	-5602.78	-1824.4	-920.16	-455.48	-226.19	-149.48	-87.88	-61.43	-41.41	-18.14	-10.59	-10.59	-5602.78
11/30/2007	-5422.52	-1845.28	-915.85	-456.36	-227.13	-150.35	-88.59	-61.99	-41.85	-18.46	-10.93	-10.93	-5422.52
12/31/2007	-5423.05	-1845.15	-920.8	-456.32	-227.11	-150.33	-88.54	-61.92	-41.76	-18.37	-10.85	-10.85	-5423.05
01/31/2008	-5798.54	-1867.02	-922.13	-457.46	-228.06	-151.16	-89.19	-62.42	-42.1	-18.44	-10.92	-10.92	-5798.54
02/29/2008	-5423.85	-1826.47	-912.34	-459.2	-228.86	-151.69	-89.5	-62.6	-42.16	-18.35	-10.78	-10.78	-5423.85
03/31/2008	-5605.56	-1847.08	-917.68	-459.33	-228.94	-151.74	-89.59	-62.76	-42.23	-18.43	-10.93	-10.93	-5605.56
04/30/2008	-5424.72	-1826.96	-912.59	-458.86	-228.23	-151.07	-89.03	-62.31	-41.96	-18.3	-10.79	-10.79	-5424.72
05/30/2008	-5423.96	-1826.4	-912.17	-458.6	-227.81	-150.61	-88.6	-61.94	-41.65	-18.06	-10.56	-10.56	-5423.96
06/30/2008	-5424.23	-1826.54	-911.98	-458.52	-227.89	-150.69	-88.69	-62.03	-41.77	-18.25	-10.78	-10.78	-5424.23
07/31/2008	-5424.37	-1826.65	-912.32	-458.59	-228.01	-150.81	-88.78	-62.09	-41.78	-18.17	-10.71	-10.71	-5424.37
08/29/2008	-5424.28	-1826.61	-917.26	-458.65	-228.16	-150.97	-88.95	-62.26	-41.95	-18.34	-10.86	-10.86	-5424.28
09/30/2008	-5424.97	-1827.59	-922.79	-458.95	-228.62	-151.27	-89.04	-62.2	-41.86	-18.4	-11.04	-11.04	-5424.97
10/31/2008	-5606.62	-1827.92	-928.4	-459.37	-229.06	-151.76	-89.15	-61.85	-41.33	-18.1	-11.19	-11.19	-5606.62
11/28/2008	-5606.76	-1828.32	-928.85	-459.98	-229.59	-152.5	-90.13	-62.98	-42.53	-19.14	-12	-12	-5606.76
12/31/2008	-5425.91	-1868.89	-929.13	-460.52	-229.79	-152.68	-90.52	-63.64	-43.27	-19.83	-12.89	-12.89	-5425.91
01/30/2009	-5799.98	-1868.73	-928.96	-460.37	-229.52	-152.37	-90.06	-63.02	-42.53	-18.87	-11.87	-11.87	-5799.98
02/27/2009	-6007.13	-1889.71	-928.85	-460.15	-229.5	-152.27	-89.92	-62.89	-42.41	-18.8	-11.69	-11.69	-6007.13
03/31/2009	-5606.66	-1848.23	-918.75	-460.27	-229.68	-152.38	-90.32	-63.38	-42.95	-19.17	-11.69	-11.69	-5606.66

ESTIMATED ZERO BOND 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	-5425.9	-1828.2	-913.9	-460.37	-229.52	-152.11	-89.93	-62.92	-42.41	-18.64	-11.18	-11.18	-5425.9
05/29/2009	-5425.83	-1828.17	-913.88	-460.36	-229.62	-152.02	-89.68	-62.59	-42.07	-18.4	-10.84	-10.84	-5425.83
06/30/2009	-5425.78	-1828.16	-913.82	-460.37	-229.46	-151.77	-89.45	-62.43	-42.03	-18.45	-10.87	-10.87	-5425.78
07/31/2009	-5425.8	-1828.13	-913.9	-460.36	-229.4	-151.79	-89.51	-62.5	-42.11	-18.47	-10.91	-10.91	-5425.8
08/31/2009	-5606.7	-1848.26	-929.09	-460.46	-229.54	-151.93	-89.62	-62.58	-42.2	-18.65	-11.01	-11.01	-5606.7
09/30/2009	-5425.88	-1828.23	-924.04	-460.48	-229.59	-151.98	-89.71	-62.71	-42.34	-18.73	-11.17	-11.17	-5425.88
10/30/2009	-5425.92	-1828.26	-924.04	-460.52	-229.63	-152	-89.71	-62.68	-42.27	-18.54	-10.98	-10.98	-5425.92
11/30/2009	-5425.86	-1868.9	-924.06	-460.58	-229.85	-152.31	-90.02	-62.96	-42.49	-18.59	-10.9	-10.9	-5425.86
12/31/2009	-5425.89	-1868.89	-929.13	-460.34	-229.36	-151.71	-89.36	-62.3	-41.87	-18.14	-10.54	-10.54	-5425.89
01/29/2010	-5606.79	-1868.87	-929.16	-460.58	-229.69	-152.07	-89.7	-62.59	-42.12	-18.34	-10.61	-10.61	-5606.79
02/26/2010	-6007.2	-1889.82	-929.12	-460.56	-229.7	-152.08	-89.71	-62.6	-42.09	-18.27	-10.49	-10.49	-6007.2
03/31/2010	-5606.65	-1848.26	-918.92	-460.45	-229.2	-151.83	-89.45	-62.37	-41.91	-18.14	-10.32	-10.32	-5606.65
04/30/2010	-5425.79	-1828.15	-913.93	-460.43	-229.25	-151.92	-89.59	-62.54	-42.1	-18.37	-10.5	-10.5	-5425.79
05/28/2010	-5425.79	-1828.15	-913.95	-460.43	-229.43	-152.15	-89.89	-62.88	-42.43	-18.68	-10.81	-10.81	-5425.79
06/30/2010	-5425.77	-1828.15	-913.97	-460.48	-229.62	-152.43	-90.24	-63.26	-42.81	-19	-11.16	-11.16	-5425.77
07/30/2010	-5425.79	-1828.16	-913.97	-460.52	-229.64	-152.6	-90.42	-63.38	-42.87	-18.92	-10.98	-10.98	-5425.79
08/31/2010	-5606.64	-1848.27	-929.14	-460.56	-229.69	-152.73	-90.7	-63.78	-43.37	-19.5	-11.45	-11.45	-5606.64
09/30/2010	-5425.79	-1828.18	-924.02	-460.57	-229.74	-152.81	-90.74	-63.77	-43.3	-19.28	-11.26	-11.26	-5425.79
10/29/2010	-5425.8	-1828.19	-924.03	-460.58	-229.84	-152.95	-90.83	-63.78	-43.18	-18.93	-10.87	-10.87	-5425.8
11/30/2010	-5425.77	-1868.78	-924	-460.53	-229.72	-152.7	-90.57	-63.59	-43	-18.79	-10.78	-10.78	-5425.77
12/31/2010	-5425.86	-1868.82	-929.13	-460.51	-229.64	-152.35	-90.05	-63	-42.48	-18.49	-10.67	-10.67	-5425.86
01/31/2011	-6007.14	-1889.79	-929.14	-460.56	-229.65	-152.43	-90.1	-62.99	-42.38	-18.25	-10.34	-10.34	-6007.14
02/28/2011	-5425.85	-1828.17	-913.99	-459.32	-229.55	-152.23	-89.86	-62.87	-42.36	-18.35	-10.44	-10.44	-5425.85
03/31/2011	-5606.74	-1848.3	-918.98	-459.27	-229.38	-152.07	-89.74	-62.78	-42.3	-18.34	-10.46	-10.46	-5606.74
04/29/2011	-5606.78	-1848.36	-919.05	-459.36	-229.62	-152.38	-90.03	-63.01	-42.47	-18.44	-10.54	-10.54	-5606.78
05/31/2011	-5606.75	-1828.25	-919.06	-459.38	-229.74	-152.6	-90.32	-63.31	-42.75	-18.67	-10.68	-10.68	-5606.75
06/30/2011	-5425.92	-1828.29	-914.07	-459.36	-229.72	-152.55	-90.24	-63.22	-42.61	-18.48	-10.52	-10.52	-5425.92
07/29/2011	-5425.81	-1828.22	-913.99	-459.3	-229.8	-152.86	-90.65	-63.62	-42.99	-18.76	-10.74	-10.74	-5425.81
08/31/2011	-5606.79	-1848.39	-924.17	-459.45	-229.94	-153.08	-91.04	-64.18	-43.62	-19.39	-11.28	-11.28	-5606.79
09/30/2011	-5425.92	-1828.29	-919.09	-459.4	-229.86	-152.99	-91.07	-64.33	-43.96	-20.05	-12.2	-12.2	-5425.92
10/31/2011	-5606.79	-1828.3	-924.16	-459.42	-229.89	-153.04	-91.03	-64.19	-43.75	-19.83	-11.94	-11.94	-5606.79
11/30/2011	-5425.92	-1848.4	-919.1	-459.45	-229.86	-153.02	-91.05	-64.23	-43.83	-19.95	-12.04	-12.04	-5425.92
12/30/2011	-5425.93	-1848.38	-919.1	-459.43	-229.86	-153.05	-91.15	-64.4	-44.03	-20.13	-12.2	-12.2	-5425.93
01/31/2012	-5800.09	-1868.88	-924.12	-459.44	-229.9	-153.16	-91.29	-64.54	-44.11	-20.1	-12.14	-12.14	-5800.09

ESTIMATED ZERO BOND 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	-5425.86	-1828.23	-914.03	-460.64	-230.13	-153.15	-91.18	-64.41	-43.97	-19.94	-12	-12	-5425.86
03/30/2012	-5425.9	-1828.23	-914.02	-460.6	-230.09	-153.04	-90.98	-64.16	-43.69	-19.66	-11.73	-11.73	-5425.9
04/30/2012	-5425.85	-1828.21	-914	-460.63	-230.16	-153.19	-91.22	-64.46	-44	-19.94	-11.94	-11.94	-5425.85
05/31/2012	-5606.77	-1828.23	-919.02	-460.62	-230.15	-153.22	-91.39	-64.77	-44.43	-20.48	-12.45	-12.45	-5606.77
06/29/2012	-5606.76	-1828.22	-918.99	-460.59	-230.1	-153.16	-91.31	-64.67	-44.31	-20.34	-12.34	-12.34	-5606.76
07/31/2012	-5425.87	-1828.21	-914.02	-460.64	-230.22	-153.3	-91.46	-64.82	-44.48	-20.55	-12.57	-12.57	-5425.87
08/31/2012	-5606.71	-1848.31	-929.17	-460.64	-230.19	-153.3	-91.45	-64.78	-44.42	-20.45	-12.45	-12.45	-5606.71
09/28/2012	-5606.75	-1848.32	-929.16	-460.64	-230.17	-153.28	-91.42	-64.74	-44.32	-20.28	-12.28	-12.28	-5606.75
10/31/2012	-5606.71	-1828.2	-929.15	-460.63	-230.13	-153.2	-91.32	-64.64	-44.26	-20.26	-12.24	-12.24	-5606.71
11/30/2012	-5425.87	-1868.86	-924.06	-460.63	-230.15	-153.26	-91.41	-64.75	-44.36	-20.32	-12.29	-12.29	-5425.87
12/31/2012	-5425.91	-1868.89	-929.19	-460.65	-230.17	-153.22	-91.31	-64.61	-44.2	-20.16	-12.14	-12.14	-5425.91
01/31/2013	-6007.25	-1889.86	-929.2	-460.66	-230.17	-153.16	-91.16	-64.39	-43.94	-19.91	-11.91	-11.91	-6007.25
02/28/2013	-5425.87	-1828.2	-914.03	-460.65	-230.19	-153.09	-91.27	-64.5	-44.07	-19.98	-11.98	-11.98	-5425.87
03/28/2013	-5425.9	-1828.23	-914.04	-460.66	-230.17	-153.08	-91.28	-64.52	-44.09	-19.95	-11.95	-11.95	-5425.9
04/30/2013	-5425.91	-1828.26	-914.07	-460.7	-230.2	-153.14	-91.38	-64.64	-44.26	-20.2	-12.19	-12.19	-5425.91
05/31/2013	-5606.78	-1828.27	-919.07	-460.67	-230.15	-152.93	-91.03	-64.22	-43.8	-19.75	-11.8	-11.8	-5606.78
06/28/2013	-5606.79	-1828.27	-919.06	-460.65	-230.12	-152.71	-90.66	-63.8	-43.41	-19.51	-11.6	-11.6	-5606.79
07/31/2013	-5425.91	-1828.27	-914.09	-460.69	-230.18	-152.77	-90.66	-63.73	-43.3	-19.35	-11.45	-11.45	-5425.91
08/30/2013	-5425.92	-1828.28	-924.15	-460.67	-230.09	-152.58	-90.41	-63.47	-43.11	-19.27	-11.38	-11.38	-5425.92
09/30/2013	-5425.91	-1828.29	-924.17	-460.7	-230.18	-152.78	-90.66	-63.72	-43.28	-19.28	-11.34	-11.34	-5425.91
10/31/2013	-5606.77	-1828.27	-929.23	-460.69	-230.19	-152.8	-90.7	-63.76	-43.33	-19.34	-11.39	-11.39	-5606.77
11/29/2013	-5606.76	-1848.33	-929.21	-460.66	-230.2	-152.82	-90.65	-63.63	-43.14	-19.14	-11.21	-11.21	-5606.76
12/31/2013	-5425.91	-1868.87	-929.24	-460.68	-230.14	-152.57	-90.3	-63.27	-42.84	-18.98	-11.07	-11.07	-5425.91
01/31/2014	-6007.25	-1889.91	-929.25	-460.69	-230.16	-152.69	-90.54	-63.6	-43.24	-19.39	-11.47	-11.47	-6007.25
02/28/2014	-5425.9	-1828.26	-914.08	-460.69	-229.86	-152.69	-90.54	-63.6	-43.24	-19.42	-11.48	-11.48	-5425.9
03/31/2014	-5606.78	-1848.37	-919.09	-460.72	-229.78	-152.5	-90.33	-63.44	-43.17	-19.46	-11.54	-11.54	-5606.78
04/30/2014	-5425.92	-1828.28	-914.1	-460.75	-229.78	-152.52	-90.38	-63.5	-43.25	-19.57	-11.65	-11.65	-5425.92
05/30/2014	-5425.9	-1828.27	-914.1	-460.73	-229.81	-152.61	-90.53	-63.68	-43.44	-19.72	-11.79	-11.79	-5425.9
06/30/2014	-5425.92	-1828.28	-914.09	-460.73	-229.74	-152.52	-90.44	-63.61	-43.38	-19.68	-11.76	-11.76	-5425.92
07/31/2014	-5425.93	-1828.28	-914.09	-460.72	-229.66	-152.38	-90.3	-63.52	-43.35	-19.74	-11.82	-11.82	-5425.93
08/29/2014	-5425.92	-1828.28	-919.1	-460.73	-229.66	-152.43	-90.44	-63.71	-43.58	-20	-12.07	-12.07	-5425.92
09/30/2014	-5425.92	-1828.29	-924.17	-460.74	-229.59	-152.32	-90.29	-63.55	-43.42	-19.87	-11.96	-11.96	-5425.92
10/31/2014	-5606.8	-1828.29	-929.25	-460.71	-229.65	-152.44	-90.43	-63.7	-43.57	-20.01	-12.07	-12.07	-5606.8
11/28/2014	-5606.77	-1828.29	-929.23	-460.69	-229.69	-152.53	-90.58	-63.87	-43.76	-20.2	-12.26	-12.26	-5606.77

ESTIMATED ZERO BOND 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	-5425.92	-1868.92	-929.22	-460.56	-229.48	-152.31	-90.42	-63.78	-43.78	-20.38	-12.41	-12.41	-5425.92
01/30/2015	-5800.13	-1868.93	-929.26	-460.65	-229.69	-152.68	-90.91	-64.32	-44.28	-20.84	-12.99	-12.99	-5800.13
02/27/2015	-6007.26	-1889.92	-929.25	-460.59	-229.52	-152.41	-90.57	-63.95	-43.94	-20.48	-12.63	-12.63	-6007.26
03/31/2015	-5606.76	-1848.4	-919.05	-459.29	-229.59	-152.53	-90.65	-64.06	-44.02	-20.53	-12.67	-12.67	-5606.76
04/30/2015	-5425.94	-1828.3	-914.1	-459.32	-229.56	-152.5	-90.58	-63.97	-43.89	-20.32	-12.45	-12.45	-5425.94
05/29/2015	-5425.93	-1828.29	-914.1	-459.29	-229.55	-152.47	-90.53	-63.89	-43.8	-20.16	-12.27	-12.27	-5425.93
06/30/2015	-5425.97	-1828.3	-914.09	-459.27	-229.53	-152.38	-90.36	-63.66	-43.57	-19.93	-12.01	-12.01	-5425.97
07/31/2015	-5425.9	-1828.25	-914.02	-459.23	-229.5	-152.42	-90.47	-63.82	-43.78	-20.2	-12.23	-12.23	-5425.9
08/31/2015	-5606.8	-1848.38	-923.97	-459.16	-229.39	-152.34	-90.42	-63.8	-43.72	-20.12	-12.17	-12.17	-5606.8
09/30/2015	-5425.95	-1828.32	-919.1	-459.2	-229.51	-152.51	-90.63	-64	-43.92	-20.26	-12.26	-12.26	-5425.95
10/30/2015	-5425.91	-1828.25	-918.94	-459.12	-229.4	-152.36	-90.47	-63.86	-43.8	-20.21	-12.2	-12.2	-5425.91
11/30/2015	-5425.81	-1848.24	-918.79	-458.9	-229.2	-152.19	-90.34	-63.76	-43.73	-20.16	-12.15	-12.15	-5425.81
12/31/2015	-5425.83	-1848.21	-923.7	-458.8	-229.08	-152.08	-90.24	-63.66	-43.66	-20.13	-12.13	-12.13	-5425.83
01/29/2016	-5425.7	-1848.08	-923.79	-458.94	-229.32	-152.44	-90.66	-64.08	-44.03	-20.43	-12.38	-12.38	-5425.7
02/29/2016	-5425.71	-1828.01	-913.71	-460.16	-229.68	-152.65	-90.82	-64.26	-44.22	-20.6	-12.51	-12.51	-5425.71
03/31/2016	-5606.66	-1848.2	-918.77	-460.2	-229.72	-152.7	-90.84	-64.24	-44.21	-20.59	-12.52	-12.52	-5606.66
04/29/2016	-5606.65	-1848.21	-918.79	-460.24	-229.68	-152.62	-90.76	-64.18	-44.15	-20.52	-12.46	-12.46	-5606.65
05/31/2016	-5606.57	-1827.99	-918.69	-460.1	-229.59	-152.53	-90.68	-64.12	-44.14	-20.57	-12.48	-12.48	-5606.57
06/30/2016	-5425.74	-1828.06	-913.83	-460.32	-229.87	-152.87	-91.07	-64.52	-44.54	-20.96	-12.84	-12.84	-5425.74
07/29/2016	-5425.75	-1828.05	-913.79	-460.25	-229.79	-152.82	-91.04	-64.51	-44.57	-21.05	-12.97	-12.97	-5425.75
08/31/2016	-5606.53	-1848.09	-928.86	-460.17	-229.64	-152.63	-90.86	-64.35	-44.43	-20.95	-12.97	-12.97	-5606.53
09/30/2016	-5425.74	-1828.06	-923.76	-460.16	-229.67	-152.68	-90.9	-64.38	-44.41	-20.84	-12.87	-12.87	-5425.74
10/31/2016	-5606.63	-1827.99	-928.84	-460.14	-229.59	-152.56	-90.74	-64.17	-44.17	-20.57	-12.6	-12.6	-5606.63
11/30/2016	-5425.59	-1868.45	-923.62	-459.96	-229.36	-152.14	-90.18	-63.56	-43.58	-20.06	-12.13	-12.13	-5425.59
12/30/2016	-5425.51	-1868.43	-923.57	-459.93	-229.29	-152.09	-90.12	-63.5	-43.52	-20.02	-12.1	-12.1	-5425.51
01/31/2017	-6006.81	-1889.43	-928.71	-460	-229.26	-152.08	-90.13	-63.51	-43.53	-20.03	-12.11	-12.11	-6006.81
02/28/2017	-5425.5	-1827.73	-913.47	-459.92	-229.2	-151.89	-90.12	-63.52	-43.6	-20.1	-12.18	-12.18	-5425.5
03/31/2017	-5606.08	-1847.65	-918.28	-459.77	-229.21	-151.91	-90.14	-63.53	-43.6	-20.08	-12.16	-12.16	-5606.08
04/28/2017	-5606.12	-1847.61	-918.2	-459.71	-229.2	-151.97	-90.25	-63.65	-43.72	-20.16	-12.21	-12.21	-5606.12
05/31/2017	-5605.95	-1827.36	-918.09	-459.64	-229.18	-151.99	-90.31	-63.74	-43.79	-20.25	-12.31	-12.31	-5605.95
06/30/2017	-5425.08	-1827.3	-913.06	-459.55	-229.08	-151.88	-90.19	-63.63	-43.72	-20.27	-12.37	-12.37	-5425.08
07/31/2017	-5424.95	-1827.21	-913.06	-459.58	-229.11	-151.92	-90.23	-63.65	-43.71	-20.2	-12.29	-12.29	-5424.95
08/31/2017	-5605.82	-1847.45	-928.21	-459.58	-229.13	-152	-90.37	-63.83	-43.9	-20.4	-12.47	-12.47	-5605.82
09/29/2017	-5605.84	-1847.39	-928.13	-459.49	-228.96	-151.8	-90.15	-63.59	-43.69	-20.25	-12.35	-12.35	-5605.84

ESTIMATED ZERO BOND 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	-5605.79	-1827.19	-928.05	-459.37	-228.85	-151.7	-90.07	-63.53	-43.66	-20.24	-12.34	-12.34	-5605.79
11/30/2017	-5424.81	-1867.71	-922.79	-459.17	-228.66	-151.54	-89.95	-63.46	-43.61	-20.27	-12.41	-12.41	-5424.81
12/29/2017	-5424.7	-1867.57	-922.69	-459.02	-228.56	-151.46	-89.9	-63.43	-43.63	-20.36	-12.51	-12.51	-5424.7
01/31/2018	-6005.93	-1888.51	-927.7	-458.93	-228.29	-151.15	-89.58	-63.12	-43.34	-20.15	-12.34	-12.34	-6005.93
02/28/2018	-5424.43	-1826.68	-912.32	-458.79	-227.86	-151.03	-89.45	-62.97	-43.15	-19.94	-12.14	-12.14	-5424.43
03/29/2018	-5424.3	-1826.59	-912.25	-458.73	-227.83	-151.06	-89.53	-63.09	-43.29	-20.11	-12.3	-12.3	-5424.3
04/30/2018	-5424.27	-1826.48	-912.17	-458.58	-227.61	-150.82	-89.3	-62.86	-43.08	-19.95	-12.16	-12.16	-5424.27
05/31/2018	-5605.04	-1826.41	-917.1	-458.58	-227.67	-150.9	-89.39	-62.96	-43.17	-20.04	-12.27	-12.27	-5605.04
06/29/2018	-5605.02	-1826.38	-917.06	-458.49	-227.57	-150.83	-89.35	-62.95	-43.17	-20.06	-12.32	-12.32	-5605.02
07/31/2018	-5424.01	-1826.32	-911.97	-458.39	-227.42	-150.7	-89.25	-62.85	-43.08	-19.96	-12.23	-12.23	-5424.01
08/31/2018	-5604.84	-1846.3	-927.05	-458.38	-227.47	-150.78	-89.35	-62.96	-43.18	-20.03	-12.28	-12.28	-5604.84
09/28/2018	-5604.69	-1846.2	-926.94	-458.22	-227.28	-150.58	-89.15	-62.76	-42.98	-19.84	-12.11	-12.11	-5604.69
10/31/2018	-5604.6	-1825.99	-926.85	-458.14	-227.22	-150.55	-89.11	-62.71	-42.89	-19.66	-11.89	-11.89	-5604.6
11/30/2018	-5423.65	-1866.57	-921.68	-458.12	-227.3	-150.67	-89.26	-62.86	-43.04	-19.77	-11.97	-11.97	-5423.65
12/31/2018	-5423.48	-1866.54	-926.79	-458.2	-227.62	-151	-89.58	-63.17	-43.35	-20.06	-12.24	-12.24	-5423.48
01/31/2019	-6004.87	-1887.52	-926.84	-458.28	-227.63	-151.04	-89.64	-63.24	-43.42	-20.09	-12.25	-12.25	-6004.87
02/28/2019	-5423.55	-1825.87	-911.66	-457.03	-227.57	-150.97	-89.51	-63.14	-43.31	-20	-12.18	-12.18	-5423.55
03/29/2019	-5423.55	-1825.89	-911.73	-457.18	-227.82	-151.25	-89.8	-63.45	-43.63	-20.3	-12.43	-12.43	-5423.55
04/30/2019	-5423.5	-1825.88	-911.73	-457.19	-227.83	-151.23	-89.75	-63.37	-43.52	-20.17	-12.31	-12.31	-5423.5
05/31/2019	-5604.49	-1825.96	-916.8	-457.35	-228.18	-151.58	-90.12	-63.75	-43.9	-20.54	-12.67	-12.67	-5604.49
06/28/2019	-5604.78	-1826.21	-917.09	-457.62	-228.33	-151.74	-90.27	-63.89	-44.02	-20.59	-12.69	-12.69	-5604.78
07/31/2019	-5423.76	-1826.23	-912.09	-457.55	-228.22	-151.64	-90.21	-63.87	-44.03	-20.6	-12.7	-12.7	-5423.76
08/30/2019	-5423.93	-1826.35	-917.29	-457.77	-228.58	-152.03	-90.65	-64.34	-44.52	-21.16	-13.31	-13.31	-5423.93
09/30/2019	-5424.09	-1826.49	-917.33	-457.74	-228.45	-151.89	-90.49	-64.17	-44.36	-21	-13.15	-13.15	-5424.09
10/31/2019	-5605.29	-1826.75	-922.65	-457.98	-228.55	-151.95	-90.51	-64.18	-44.33	-20.91	-13.09	-13.09	-5605.29
11/29/2019	-5605.22	-1826.72	-922.6	-457.89	-228.46	-151.85	-90.41	-64.06	-44.23	-20.87	-13.08	-13.08	-5605.22
12/31/2019	-5424.45	-1846.87	-922.62	-457.95	-228.52	-151.85	-90.34	-63.96	-44.08	-20.67	-12.89	-12.89	-5424.45
01/31/2020	-5798.63	-1867.38	-922.66	-458.08	-228.77	-152.17	-90.73	-64.38	-44.52	-21.08	-13.27	-13.27	-5798.63
02/28/2020	-5798.73	-1867.63	-923.04	-458.49	-229.17	-152.56	-91.1	-64.74	-44.87	-21.42	-13.58	-13.58	-5798.73
03/31/2020	-5606.78	-1848.33	-919.03	-460.69	-230.16	-153.31	-91.69	-65.26	-45.36	-21.83	-13.9	-13.9	-5606.78
04/30/2020	-5425.86	-1828.21	-914.04	-460.67	-230.21	-153.35	-91.71	-65.28	-45.38	-21.83	-13.97	-13.97	-5425.86
05/29/2020	-5425.81	-1828.15	-913.99	-460.63	-230.25	-153.4	-91.77	-65.31	-45.38	-21.75	-13.84	-13.84	-5425.81
06/30/2020	-5425.8	-1828.14	-914	-460.65	-230.26	-153.44	-91.8	-65.33	-45.38	-21.75	-13.84	-13.84	-5425.8
07/31/2020	-5425.84	-1828.22	-914.05	-460.68	-230.3	-153.48	-91.87	-65.43	-45.51	-21.97	-14.07	-14.07	-5425.84

ESTIMATED ZERO BOND 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	-5606.71	-1848.3	-929.19	-460.7	-230.28	-153.46	-91.8	-65.32	-45.33	-21.69	-13.76	-13.76	-5606.71
09/30/2020	-5425.85	-1828.21	-924.1	-460.7	-230.29	-153.45	-91.81	-65.34	-45.36	-21.73	-13.79	-13.79	-5425.85
10/30/2020	-5425.85	-1828.21	-924.09	-460.68	-230.26	-153.4	-91.69	-65.17	-45.15	-21.53	-13.58	-13.58	-5425.85
11/30/2020	-5425.86	-1868.86	-924.1	-460.71	-230.27	-153.41	-91.71	-65.2	-45.2	-21.62	-13.68	-13.68	-5425.86
12/31/2020	-5425.87	-1868.85	-929.21	-460.73	-230.3	-153.44	-91.71	-65.16	-45.12	-21.51	-13.6	-13.6	-5425.87
01/29/2021	-5606.75	-1868.88	-929.23	-460.73	-230.31	-153.42	-91.64	-65.05	-44.96	-21.31	-13.42	-13.42	-5606.75
02/26/2021	-6007.25	-1889.89	-929.26	-460.71	-230.31	-153.27	-91.35	-64.69	-44.57	-20.9	-13.1	-13.1	-6007.25
03/31/2021	-5606.78	-1848.36	-919.13	-460.75	-230.31	-153.04	-91.14	-64.35	-44.24	-20.63	-12.84	-12.84	-5606.78
04/30/2021	-5425.93	-1828.28	-914.13	-460.75	-230.3	-153.08	-91.22	-64.46	-44.36	-20.75	-12.95	-12.95	-5425.93
05/28/2021	-5425.93	-1828.3	-914.13	-460.77	-230.32	-153.11	-91.26	-64.51	-44.38	-20.74	-12.96	-12.96	-5425.93
06/30/2021	-5425.89	-1828.26	-914.11	-460.74	-230.21	-152.97	-91.2	-64.55	-44.52	-20.94	-13.18	-13.18	-5425.89
07/30/2021	-5425.89	-1828.25	-914.1	-460.75	-230.28	-153.09	-91.39	-64.79	-44.76	-21.15	-13.37	-13.37	-5425.89
08/31/2021	-5606.75	-1848.34	-929.26	-460.74	-230.24	-153.02	-91.3	-64.7	-44.7	-21.13	-13.35	-13.35	-5606.75
09/30/2021	-5425.87	-1828.26	-924.16	-460.74	-230.2	-152.91	-91.12	-64.5	-44.51	-20.99	-13.25	-13.25	-5425.87
10/29/2021	-5425.88	-1828.25	-924.14	-460.68	-229.96	-152.65	-90.91	-64.34	-44.43	-21.04	-13.43	-13.43	-5425.88
11/30/2021	-5425.85	-1868.88	-924.11	-460.61	-229.88	-152.59	-90.93	-64.44	-44.55	-21.16	-13.57	-13.57	-5425.85
12/31/2021	-5425.95	-1868.88	-929.16	-460.45	-229.72	-152.46	-90.84	-64.38	-44.48	-21.07	-13.44	-13.44	-5425.95
01/31/2022	-6007.25	-1889.75	-928.88	-460.06	-229.27	-152.06	-90.49	-64.06	-44.2	-20.83	-13.27	-13.27	-6007.25
02/28/2022	-5425.85	-1827.95	-913.52	-459.81	-228.63	-151.83	-90.36	-64	-44.14	-20.72	-13.22	-13.22	-5425.85
03/31/2022	-5606.68	-1847.89	-918.16	-459.19	-227.7	-150.95	-89.62	-63.39	-43.65	-20.43	-12.97	-12.97	-5606.68
04/29/2022	-5606.51	-1847.54	-917.83	-458.76	-227.37	-150.56	-89.13	-62.82	-43.05	-19.8	-12.44	-12.44	-5606.51
05/31/2022	-5606.09	-1827.22	-917.64	-458.78	-227.57	-150.73	-89.26	-62.93	-43.11	-19.71	-12.37	-12.37	-5606.09
06/30/2022	-5424.83	-1826.61	-911.76	-457.96	-227.13	-150.43	-89.05	-62.73	-42.95	-19.55	-12.29	-12.29	-5424.83
07/29/2022	-5423.85	-1825.9	-911.32	-457.88	-227.19	-150.67	-89.41	-63.13	-43.32	-19.73	-12.45	-12.45	-5423.85
08/31/2022	-5604.47	-1845.55	-926.07	-457.41	-226.59	-149.97	-88.72	-62.5	-42.78	-19.4	-12.19	-12.19	-5604.47
09/30/2022	-5423.24	-1825.07	-920.37	-456.63	-225.73	-149.18	-88	-61.82	-42.14	-18.91	-11.75	-11.75	-5423.24
10/31/2022	-5603.15	-1824.26	-924.86	-456.18	-225.56	-149.04	-87.87	-61.67	-41.89	-18.55	-11.33	-11.33	-5603.15
11/30/2022	-5421.92	-1864.66	-919.57	-456.08	-225.76	-149.43	-88.34	-62.14	-42.38	-19.01	-11.69	-11.69	-5421.92
12/30/2022	-5422.06	-1864.57	-919.51	-456.11	-225.63	-149.25	-88.1	-61.86	-42.11	-18.83	-11.47	-11.47	-5422.06
01/31/2023	-6002.71	-1885.26	-924.56	-456.03	-225.87	-149.58	-88.49	-62.27	-42.5	-19.24	-11.77	-11.77	-6002.71
02/28/2023	-5421.31	-1823.48	-909.13	-454.43	-225.24	-148.96	-87.89	-61.78	-42.07	-18.89	-11.58	-11.58	-5421.31
03/31/2023	-5602.08	-1843.68	-914.32	-454.95	-226.05	-149.67	-88.47	-62.28	-42.51	-19.18	-11.8	-11.8	-5602.08
04/28/2023	-5602.44	-1843.31	-914.21	-454.77	-226.09	-149.76	-88.57	-62.37	-42.57	-19.18	-11.76	-11.76	-5602.44
05/31/2023	-5601.67	-1822.97	-913.79	-454.35	-225.7	-149.41	-88.29	-62.12	-42.32	-18.96	-11.59	-11.59	-5601.67

ESTIMATED ZERO BOND 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	-5420.72	-1822.99	-908.78	-454.11	-225.16	-148.95	-87.93	-61.86	-42.17	-18.95	-11.64	-11.64	-5420.72
07/31/2023	-5420.53	-1822.87	-908.71	-454.14	-225.18	-148.96	-87.89	-61.76	-42.04	-18.8	-11.52	-11.52	-5420.53
08/31/2023	-5601.36	-1842.93	-918.71	-454.16	-225.24	-148.93	-87.8	-61.64	-41.86	-18.59	-11.28	-11.28	-5601.36
09/29/2023	-5601.36	-1842.9	-918.69	-454.11	-225.05	-148.67	-87.44	-61.21	-41.39	-18.06	-10.8	-10.8	-5601.36
10/31/2023	-5601.34	-1822.8	-918.68	-454.11	-225.03	-148.53	-87.18	-60.87	-40.99	-17.65	-10.39	-10.39	-5601.34
11/30/2023	-5420.48	-1842.97	-913.78	-454.41	-225.44	-149.04	-87.75	-61.47	-41.6	-18.26	-10.98	-10.98	-5420.48
12/29/2023	-5420.51	-1842.99	-913.92	-454.82	-225.86	-149.47	-88.2	-61.93	-42.11	-18.76	-11.42	-11.42	-5420.51