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Historical Net Discount Rates - An Update Through 2005

Thomas R. Ireland

Introduction

made between various discount rates and both the CPI (Consumer Price Index) and the MCPI (Medical Consumer Price Index). Tables 5-8 begin with applicable in any case, given regime changes in the American economy.] made between that series and various discount rates for the past 25 years. compensation series of the employer cost index, allowing comparisons to workers. Table 5 contains data from 1981 to the present for the total various discount rates and Average Weekly Earnings for all American now begin with 1956 and end with 2005, allowing 50 year comparisons to be except that the tables now include data through the year 2005. Tables 1-4 prepared on the same basis as in all three previous versions of the table series has been that the data in making the calculations must come from the and 2003 [Ireland, 2002]. A basic rule for all calculations provided in this through 1999 [Ireland, 2000] and updates through 2001 [Ireland, 2000-01] were presented in publications by this author that contained calculations 1965 and end with 2005, allowing 40 year comparisons to be made between Economic Report of the President (henceforth ERP). Tables 1-4 have been [As a note of caution, averages for any period longer than 25 years are not The following eight tables are updated versions of the eight tables that

Compensation series of the Employer Cost Index (ECI) from 1984 through 2005. Figures for 1981-1983 for the Total Compensation series of the periods ending in 2004. The 2005 ERP only contained dates for the Total starting point has allowed calculations for Tables 5 to 8 of up to 40 years for instead of 1959, as in the first two versions of these tables. Use of a 1965 The 2006 ERP parallels the 2004 ERP by not including data for the "Average President (ERP) as of 2006. Those revisions dated back to the beginning in revisions made by the Bureau of Labor Statistics to its "Average Weekly Weekly Earnings" series prior to 1965. Tables 5-8 therefore start with 1965 1965 for the data for that series provided in Tables 5-8 in the ERP for 2004 Earnings of All American Workers" series as of the Economic Report of the With respect to Tables 5-8, the 2003 revision of these tables included

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^{&#}x27;Thomas R. Ireland, Ph.D., Department of Economics, University of Missouri www.umsl.edu/~ireland (Tel: 314-516-5558; Fax: 314-516-5352; E-mail: ireland@umsl.edu; Web: Louis, 8001 Natural Bridge Road, St. Louis, MO 63121.

the three previous publications cited above have been maintained. Employer Cost Index were retained from the Economic Report of the President: 2003. A reader would need to consult the 2003 ERP to find figures for 1981-83. In other respects, the methods used in compiling these tables in

Explanation of the Tables

and 5, but simply replicates what is provided in the ERP. presented in the ERP. The data has not been modified in any way in Tables 1 Tables 5-8. In that sense, the eight tables provided should be understood as two sets of four tables each. Tables 1 and 5 provide basic data as it is of change in the total compensation measure in the Employer Cost Index in compared year by year with the CPI and the MCPI in Tables 1-4 and with the Average Weekly Earnings series of earnings increases and the annual rates Corporate Aaa rate and the High Grade Municipal bond rate. Those rates are Bill, the Three Year Treasury Note, the Ten Year Treasury Bond, the versions of these tables. The tables still provide data for the 91 Day Treasury reissue 30 year bonds and the 30 year interest rate may be included in future those bonds several years ago. The U.S. Treasury has recently begun to and flexible. The original version had data for the 30 year U.S. Treasury with values for net discount rates and the real interest rate that were varied Bond rate. That was discontinued because the U.S. Treasury stopped issuing The original purpose of these tables was to provide forensic economists

same interest rates as Table 1, but replaces data for the CPI and MCPI with data for Average Weekly Earnings of all American workers and the Total Table 1 includes data for the interest rates indicated above and for the CPI and MCPI by year from 1956 through 2005. Table 5 replicates data for the Compensation series for the Employer Cost Index (ECI) only goes back to than Tables 1-4 because the longest wage increase series, Average Weekly Compensation series for the Employer Cost Index. Tables 5-8 are shorter Earnings of all American workers, only goes back to 1965. The Total 1982, so it is shorter still.

growth rate in the CPI for each of fifty possible time periods ending in 2005 the real interest rate based on comparing each of the interest rates with the that same 50 year period was 4.03 percent. Table 3 provides calculations of 2005 was 5.68 percent and that the average rate of increase in the CPI over average rate of effective yields on 91 Day Treasury Bills from 1956 through to interest rate comparisons. Table 2, for example, shows that the arithmetic variable for periods ending in 2005. This results in up to 50 year averages for the CPI and MCPI and up to 40 year averages for the earnings growth rates Tables 2 and 6 provide a series of multi-year average growth rates for each

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compensation in the total compensation measure in the Employer Cost Index for the 25 possible periods from 1982 through 2005. comparing each of the interest rates with the annual growth rate in total through 2004. Table 8 provides calculations of the net discount rate based on based on comparing each of the interest rates with the growth rate in the Table 4 provides the same comparisons with the growth rate in the MCPI for up to 50 year periods. Table 7 provides calculations of the net discount rate Average Weekly Earnings series from for the 40 possible periods from 1965

Avoiding Chronological Confusion

developed and in net rates based on those averages. six tables start from the present and move further and further into the past and 5 start with the past and move forward to the present, while the other 1 and 5 for the years 2003, 2004 and 2005, and so forth. Thus only Tables 1 divided by 1, or the same figure that appears for the rate at the bottom of Tables 1 and 5 for the year 2005. "2 Year Average Rate" refers to the average year average rate" for a period ending in 2005 is the value for the year 2005 and 6, the first period that appears is the "1 Year Average Rate." The "one as more and more years are included in the calculated averages being Year Average Rate" refers to the average of the rates at the bottom of Tables of the rates at the bottom of Tables 1 and 5 for the years 2004 and 2005. "3 other six tables, that chronological order is effectively reversed. In Tables 2 at the top of the table and 2004 appears at the bottom of the table. In the Tables 1 and 5 is presented in chronological order. As a result, 1955 appears The structure of the tables can be chronologically confusing. Data in

Uses of the Tables

projections of growth rates and multiple periods over which projections are actual history. Having tables that employ multiple discount rates, multiple proving that the claims of the opposing economist are inconsistent with not regularly use. As such, the qualified economist may have difficulty claims may identify periods or interest rates that a qualified economist does purport to justify total offset or more than offset net discount rates. These example, claims are made in the reports of various would-be experts that that various net discount rates are justified by historical experience. For economist to counter claims made by unqualified forensic economic "experts" made provides a useful tool to counter such claims. These tables were compiled to make it easier for a qualified forensic The Earnings Analyst Volume VIII 2006 These tables continue to provide little comfort for persons advocating total offset for anything but net rates based on the MCPI. For the past eight years, one can find values close to total offset based on the 91 Day Treasury Bill for net discount rates based on Average Weekly Earnings or the Total Compensation Series for the Employer Cost Index. For the ECI only, the same is true for the Three Year Treasury Bill rate. For all other discount rates, there is no justification for total offset with either wage series.²

Endnotes

Theoretically, it would have been better to have used geometrically average growth rates rather than arithmetic averages for interest rates and growth rates. However, after making a comparison over 20 years, this author determined that there is very little loss of accuracy with use of arithmetic averages. To have obtained geometric averages from interest rates over a 50 year period would have involved substantially more time spent in calculation for only a very small increase in accuracy. It would have been much easier to do so for growth rates, but consistency still dictated use of arithmetic rather than geometric averages. Net discount rates and real interest rates, however, are based on geometric calculations.

² The MCPI should not generally be used in calculating the costs of life care plans since many elements in those plans do not increase in tandem with hospitalizations, pharmaceuticals and skilled medical care.

Yarious Interest Rates and Growth Rates in the CPI and the MCPI from 1956-2005

0.0	3.0	9.18	11.37	10.62	9.64	7.957	1985
2 2	ئ د	10.10	12.71	12.44	11.89	10.332	1984
6.2	2 6	9.47	12.04	11.10	10.45	9.250	1983
20 2	2 0 0	11.07	13.79	13.00	12.92	11.609	1982
11 6	6.0	11.27	14.17	13.91	14.44	15.583	1981
10.7	10.3	11 93	14 17	11.40	11.55	12.568	1980
11.0	13.5	8 51	11 04		3.11	10.862	1979
9.2	11.3	6.39	9.63	9 44	0 71	10.000	1210
8.4	7.6	5.90	8.73	8.41	8.29	7.669	1978
9.0	6.5	5.56	8.02	7.42	6.69	5.521	1977
9.0	5.8	6.49	8.43	7.61	6.77	5.222	1976
2.0	9.1	6.89	8.83	7.99	7.49	6.145	1975
10.0	11.0	6.09	8.57	7.56	7.82	8.411	1974
0 3	110	0.10	7,44	6.84	6.95	7.469	1973
40	0.6	0.27	7.21	6.21	5.72	4.236	1972
ن ا ا	, c	5.70	7.39	6.16	5.65	4.533	1971
6.9	:	0.01	8.04	7.35	7.29	6.825	1970
6 6	0.0	5.81	7.03	6.67	7.02	7.066	1969
6.7	i, n	0.94	6.18	5.65	5.68	5.601	1968
80	2 5	0.90	5.51	5.07	5.03	4.504	1967
7.2	2 1	3 00	5.13	4.92	5.23	5.106	1966
4 4	90	0.27	4.49	4.28	4.22	4.111	1965
24	1.0	3.22	4.40	4.19	4.03	3.681	1964
9 1 0	1.0	3.23	4.26	4.00	3.67	3.266	1963
2.0	1.0	3.18	4.33	3.88	3.47	2.867	1962
2.1	1.0	3.73	4.35	3.88	3.54	2.448	1961
2 0.7	1.7	3.73	4.41	4.12	3.98	3.025	1960
4.4	0.7	3.95	4.38	4.33	4.46	3.528	1959
4.6	2.8	3.56	3.79	3.32	2.84	1.886	1958
4.2	3.3	3.60	3.89	3.65	3.98	3.382	1957
3.8	1.5	2.93	3.36	3.18	3.19	2.741	1956
			0010	10 / 042	o-year	3-month	Year

Ireland: Historical Net Discount Rates --An Update Through 2005

Table 1 (cont.)	(cont.)						
Year	3-month	3-year	10-year	Corp Aaa	Municipal	CPI Incr.	Med CPI
1986	6.300	7.06	7.68	9.02	7.38	1.9	7.5
1987	6.125	89.7	7.68	9.38	7.73	3.6	6.6
1988	7.080	8.26	8.85	9.71	7.76	4.1	6.5
1989	8.674	8.55	8.49	9.26	7.24	4.8	7.7
1990	7.991	8.26	8.55	9.32	7.25	5.4	9.0
1991	5.689	6.82	7.85	8.77	6.89	4.2	8.7
1992	3.576	5.30	7.01	8.14	6.41	3.0	7.4
1993	3.121	4.44	5.87	7.22	5.63	3.0	5.9
1994	4.470	6.27	7.09	7.96	6.19	2.6	4.8
1995	5.787	6.25	6.57	7.59	5.95	2.8	4.5
1996	5.256	5.99	6.44	7.37	5.75	3.0	3.5
1997	5.310	6.10	6.35	7.87	5.55	2.3	2.8
1998	5.029	5.14	5.26	6.53	5.12	1.6	3.2
1999	4.868	5.49	5.65	7.04	5.43	2.2	3.5
2000	6.158	6.22	6.03	7.62	5.77	3.4	4.1
2001	3.576	4.09	5.02	7.08	5.19	2.8	4.6
2002	1.659	3.10	4.61	6.49	5.05	1.6	4.7
2003	1.041	2.10	4.01	5.67	4.73	2.3	4.0
2004	1.411	2.78	4.27	5.63	4.63	2.7	4.4
2005	3.269	3.93	4.29	5.24	4.29	3.4	4.2

Interest rates are taken from Table B-73 of the Economic Report of the President: 2004. Percentage increases in the CPI and the MCPI are taken from Table B-64 in the ERP 2003 and 2006. The Treasury Bill Rate is converted from "bank discount" to "effective yield." See the notes for Table 2 for other abbreviations.

Table 2
Average Values for Various Interest Rates and Growth Rates in the CPI and the MCPI for the Number of Years Shown as Ending in 2005

Number of Years to 2005	3-month	3-year	10-year	Corp. Aaa	Municipal	CPI Incr.	Med CPI
1 Year Average Rate	3.27	3.93	4.29	5.24	4.29	3.40	4.20
2 Year Average Rate	2.34	3.36	4.28	5.44	4.46	3.05	4.30
	1.91	2.94	4.19	5.51	4.55	2.80	4.20
4 Year Average Rate	1.85	2.98	4.30	5.76	4.68	2.50	4.33
5 Year Average Rate	2.19	3.20	4.44	6.02	4.78	2.56	4.38
6 Year Average Rate	2.85	3.70	4.71	6.29	4.94	2.70	4.33
7 Year Average Rate	3.14	3.96	4.84	6.40	5.01	2.63	4.21
8 Year Average Rate	3.38	4.11	4.89	6.41	5.03	2.50	4.09
9 Year Average Rate	3.95	4.76	5.53	7.16	5.56	2.86	4.41
10 Year Average Rate	3.76	4.49	5.19	6.65	5.15	2.53	3.90
11 Year Average Rate	3.94	4.65	5.32	6.74	5.22	2.55	3.95
12 Year Average Rate	3.99	4.79	5.47	6.84	5.30	2.56	4.03
13 Year Average Rate	3.92	4.76	5.50	6.87	5.33	2.59	4.17
14 Year Average Rate	3.90	4.80	5.61	6.96	5.41	2.62	4.40
15 Year Average Rate	4.01	4.93	5.75	7.08	5.51	2.73	4.69
16 Year Average Rate	4.26	5.14	5.93	7.22	5.61	2.89	4.96
17 Year Average Rate	4.52	5.34	6.08	7.34	5.71	3.01	5.12
18 Year Average Rate	4.66	5.50	6.23	7.47	5.82	3.07	5.19
19 Year Average Rate	4.74	5.62	6.31	7.57	5.92	3.09	5.27
20 Year Average Rate	4.82	5.69	6.38	7.65	6.00	3.04	5.38
21 Year Average Rate	4.97	5.88	6.58	7.82	6.15	3.06	5.42
22 Year Average Rate	5.21	6.15	6.85	8.05	6.33	3.12	5.46
23 Year Average Rate	5.39	6.34	7.03	8.22	6.47	3.12	5.60
24 Year Average Rate	5.65	6.61	7.28	8.45	6.68	3.25	5.85
25 Year Average Rate	6.04	6.93	7.55	8.68	6.86	3.53	6.05
Year	6.30	7.10	7.70	8.81	6.93	3.92	6.24
	6.46	7.20	7.76	8.84	6.91	4.19	6.35
Year	6.51	7.24	7.78	8.83	6.87	4.31	6.42
29 Year Average Rate	6.47	7.22	7.77	8.80	6.82	4.39	6.53
Cont. p. 56							

Table 2 (Cont.) Number of Years		•	;	Corp.		CPI
Number of Years to 2005	3-month	3-year	10-year	Corp. Aaa	Municipal	
30 Year Average Rate	6.43	7.21	7.77	8.79	6.81	· I
31 Year Average Rate	6.42	7.22	7.77	8.79	6.82	4.58
32 Year Average Rate	6.49	7.23	7.77	8.79	6.79	4.78
33 Year Average Rate	6.51	7.23	7.74	8.74	6.74	4.83
34 Year Average Rate	6.45	7.18	7.69	8.70	6.70	4.78
35 Year Average Rate	6.39	7.14	7.65	8.66	6.67	4.77
36 Year Average Rate	6.41	7.14	7.64	8.65	6.67	4.79
37 Year Average Rate	6.42	7.14	7.62	8.60	6.64	4.81
38 Year Average Rate	6.40	7.10	7.56	8.54	6.65	4.80
39 Year Average Rate	6.35	7.05	7.50	8.46	6.58	4.75
40 Year Average Rate	6.32	7.00	7.43	8.38	6.51	4.71
41 Year Average Rate	6.27	6.93	7.36	8.28	6.44	4.63
42 Year Average Rate	6.21	6.86	7.28	8.19	6.36	4.55
43 Year Average Rate	6.14	6.79	7.21	8.10	6.29	4.48
44 Year Average Rate	6.06	6.71	7.13	8.01	6.22	4.40
45 Year Average Rate	5.98	6.64	7.06	7.93	6.16	4.32
46 Year Average Rate	5.92	6.59	6.99	7.85	6.11	4.27
47 Year Average Rate	5.87	6.54	6.94	7.78	6.06	4.19
48 Year Average Rate	5.78	6.46	6.86	7.70	6.01	4.16
49 Year Average Rate	5.74	6.41	6.80	7.62	5.96	4.14
50 Year Average Rate	5.68	6.35	6.72	7.53	5.90	4.09

"3-Month" refers to the 90 Day U.S. Treasury Bill, "3-Year" refers to a constant maturity U.S. Treasury three year note, "10 Year" refers to a 10 Year U.S. Treasury Bond, "Corp. Aaa" refers to the Corporate Aaa rate, Muni refers to the High Grade Municipal rate, "CPI" refers to the Consumer Price Index, and "MCPI" refers to the medical component of the CPI.

Real Interest Rates Based on Various Interest Rates and the Growth Rate in the CPI for Numbers of Years Ending in 2005

3- 3-year year Ana	0.00	2.34		3.24			29 Year Real Discount Rate Cont. p. 58
3- 3-year year Aaa Municipal II month -0.13	-	2.45	4.33	3.33	2.81		28 Year Real Discount Rate
3- 3-year year Aaa Municipal In- month	+	2.61	4.46	3.43			27 Year Real Discount Rat
3- 3-year year Aaa Municipal Irononth Aaa year Aaa Year Aaa Aaa Aaa Aaa Aaa Aaa Aaa Aaa Aaa A	+	2.90	4.71	3.64	3.07		Year Real
3- 3-year year Aaa Municipal II month	+	3.22	4.97	3.88	3.28		Year
3- 3- 3-year year Aaa Municipal II month		3.32	5.04	3.90	3.26		Year
3- 3- 3-year year Aaa Municipal II month 3-year year Aaa -0.13		3.24	4.94	3.79	3.12		
3- 3- 3-year year Aaa Municipal Municipal Municipal	0	3.12	4.78	3.62	2.94		Year Real Discount
3- 3- 3-year year Aaa Municipal I month 3-year year Aaa -0.013	-	2.99	4.62	3.41	2.73	-	Year
3- 3- 3-year year Aaa Municipal Municipal	0	2.87	4.47	3.25	2.58		20 Year Real Discount Rate
3- month 3-year year Aaa Municipal L no.013 0.51 0.86 1.78 0.86 0 no.089 0.30 1.19 2.31 1.37 0 no.087 0.13 1.35 2.64 1.70 0 no.087 0.13 1.35 2.64 1.70 0 no.086 0.62 1.83 3.38 2.16 0 no.15 0.98 1.95 3.49 2.18 0 no.50 1.30 2.15 3.67 2.32 0 no.86 1.57 2.33 3.82 2.46 0 no.86 1.57 2.33 3.82 2.46 0 no.86 1.57 2.33 3.82 2.60 0 no.86 1.57 2.33 3.82 2.66 0 no.86 1.57 2.33 3.82 2.66 0 no.86 1.57 2.33 3.82 2.46 0 no.87 2.46 2.66 0 no.86 1.57 2.38 4.18 2.68 0 no.86 1.57 2.83 4.17 2.67 0 no.86 1.57 2.59 4.24 2.70 0 no.86 1.57 2.57 2.98 4.21 2.63 0 no.86 1.57 2.37 3.07 4.28 2.68 0 no.86 1.57 2.37 3.07 4.28 2.68	0	2.74	4.34	3.12	2.45		19 Year Real Discount Rate
3- month 3-year year Aaa Municipal L no.013 0.51 0.86 1.78 0.86 0. no.02 0.30 1.19 2.31 1.37 0. no.04 0.47 1.75 3.18 2.12 0. no.05 0.62 1.83 3.38 2.16 0. no.05 1.30 2.15 3.67 2.32 0. no.06 1.57 2.33 3.82 2.46 0. no.05 1.30 2.15 3.67 2.32 0. no.05 1.30 2.15 2.60 4.18 2.63 0. no.05 1.30 2.15 2.60 4.02 2.66 0. no.05 1.30 2.17 2.83 4.18 2.68 0. no.05 1.30 2.17 2.83 4.18 2.68 0. no.05 1.30 2.17 2.83 4.17 2.67 0. no.05 1.30 2.11 2.83 4.18 2.68 0. no.05 1.30 2.11 2.83 2.11 2.01 2.01 2.01 2.01 2.01 2.01 2.01	0	2.68	4.28	3.07	2.37		
3- month 3-year year Aaa Municipal L month 0.013 0.51 0.86 1.78 0.86 0. -0.69 0.30 1.19 2.31 1.37 0. -0.64 0.47 1.75 3.18 2.12 0. -0.36 0.62 1.83 3.38 2.16 0. -0.15 0.98 1.95 3.49 2.18 0. -0.50 1.30 2.15 3.67 2.32 0. 0.86 1.57 2.33 3.82 2.46 0. 1.07 1.86 2.60 4.18 2.63 0. 1.07 1.86 2.60 4.18 2.63 0. 1.07 1.86 2.60 4.18 2.63 0. 1.07 1.86 2.60 4.18 2.63 0. 1.07 1.86 2.60 4.18 2.63 0. 1.07 1.86 2.60 4.18 2.63 0. 1.07 1.86 2.60 4.18 2.63 0. 1.07 1.86 2.60 4.18 2.63 0. 1.07 1.86 2.60 4.18 2.63 0. 1.07 1.86 2.60 4.18 2.66 0. 1.20 1.22 2.60 4.02 2.56 0. 1.35 2.05 2.69 4.08 2.60 0. 1.36 2.17 2.83 4.18 2.68 0. 1.27 2.83 4.18 2.68 0. 1.28 2.17 2.83 4.17 2.67 0. 1.28 2.12 2.91 4.23 2.71 0. 1.28 1.25 2.15 2.95 4.24 2.70 0. 1.29 2.11 2.89 4.21 2.64 0.	0	2.63	4.21	2.98	2.27		17 Year Real Discount Rate
3- month 3-year year Aaa Municipal I month 0.013 0.51 0.86 1.78 0.86 0. -0.69 0.30 1.19 2.31 1.37 0. -0.64 0.47 1.75 3.18 2.12 0. -0.36 0.62 1.83 3.38 2.16 0. -0.15 0.98 1.95 3.49 2.18 0. -0.50 1.30 2.15 3.67 2.32 0. 0.86 1.57 2.33 3.82 2.46 0. 0.86 1.57 2.33 3.82 2.46 0. 1.07 1.86 2.60 4.18 2.63 0. 1.07 1.86 2.60 4.18 2.63 0. 1.07 1.86 2.60 4.18 2.63 0. 1.07 1.86 2.60 4.18 2.63 0. 1.07 1.86 2.60 4.18 2.63 0. 1.07 1.86 2.60 4.18 2.63 0. 1.07 1.86 2.60 4.18 2.60 0. 1.20 1.92 2.60 4.02 2.56 0. 1.20 2.11 2.83 4.18 2.68 0. 1.21 2.21 2.23 4.24 2.70 0.	.0	2.64	4.21	2.95	2.19		
3- month 3-year year Aaa Municipal I month 2-year Aaa	٥	2.70	4.24	2.95	2.15		Year Real Discount
3- 3-year year Aaa Municipal I month	0.0	2.71	4.23	2.91	2.12		Year
3- month 3-year year Aaa Municipal I month 0.51 0.86 1.78 0.86 0. -0.63 0.51 0.86 1.78 0.86 0. -0.87 0.13 1.35 2.64 1.70 0. -0.64 0.47 1.75 3.18 2.12 0. -0.36 0.62 1.83 3.38 2.16 0. -0.36 0.62 1.83 3.38 2.16 0. -0.36 0.50 1.30 2.15 3.67 2.32 0. 0.50 1.30 2.15 3.67 2.32 0. -0.86 1.57 2.33 3.82 2.46 0. -0.86 1.57 2.58 2.69 2.60 0. -0.86 1.57 2.60 0.00 0.00 0. -0.86 1.57 2.60 0.00 0.00 0.00 0. -0.86 1.57 2.50 0.00 0.00 0.00 0.00 0.00 0. -0.86 1.57 2.60 0.00 0.00 0.00 0.00 0.00 0.00 0.00	9	2.67	4.17	2.83	2.11	-	Year
3- 3-year year Aaa Municipal I month 3-year year Aaa	9	2.68	4.18	2.83	2.17		12 Year Real Discount Rate
3- 3-year year Aaa Municipal I month 3-year year Aaa	0.0	2.60	4.08	2.69	2.05		11 Year Real Discount Rate
3- 3-year 10- Corp. Municipal 1 month 3-year year Aaa 20- 20- 20- 20- 20- 20- 20- 20- 20- 20-	0.0	2.56	4.02	2.60	1.92		10 Year Real Discount Rate
3- 3-year 10- Corp. Municipal 1 month 2-year Aaa 2-year 2-	0.0	2.63	4.18	2.60	1.86	1.07	
3- 3-year 10- Corp. Municipal month 3-year year Aaa 2-year 2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-	0.0	2.46	3.82	2.33	1.57	0.86	
3- 3-year 10- Corp. Municipal 1 month 2-year 2-year Aaa 2-year 2-year 2-year Aaa 2-year 2-y	0.0	2.32	3.67	2.15	1.30	0.50	Year
3- month 3-year 10- year OrP- Aaa Municipal -0.13 0.51 0.86 1.78 0.86 -0.69 0.30 1.19 2.31 1.37 -0.69 0.13 1.35 2.64 1.70 -0.87 0.13 1.35 2.64 1.70 -0.64 0.47 1.75 3.18 2.12 -0.36 0.62 1.83 3.38 2.16	0.0	2.18	3.49	1.95	0.98	0.15	6 Year Real Discount Rate
3- 3-year 10- COFP Municipal month 9-year Aaa N.S. 0.86 1.78 0.86 1.78 0.86 1.0.69 0.30 1.19 2.31 1.37 1.35 2.64 1.70 1.0.64 0.47 1.75 3.18 2.12	0.0	2.16	3.38	1.83	0.62	-0.36	5 Year Real Discount Rate
month 3-year year Aaa Municipal e -0.69 0.30 1.19 2.31 1.37 e -0.87 0.13 1.35 2.64 1.70	99	2.12	3.18	1.75	0.47	-0.64	
month 3-year year Aaa Municipal e -0.69 0.30 1.19 2.31 1.37	0.0	1.70	2.64	1.35	0.13	-0.87	
month 3-year year Aaa Municipal e .0.13 0.51 0.86 1.78 0.86	0.0	1.37	2.31	1.19	0.30	-0.69	Year Real
month 3-year year Aaa Municipal	0.0	0.86	1.78	0.86	0.51	-0.13	1 Year Real Discount Rate
	Incr	Municipal	Corp. Aaa	10- year	3-year	3- month	Number of Years to 2005

Table 3 (Cont.)							
rs to 2005	3- month	3-year	10- year	Corp. Aaa	Municipal	CPI Incr.	Med CPI
30 Year Real Discount Rate	1.91	2.65	3.19	4.17	2.28	0.00	2.10
	1.76	2.52	3.05	4.02	2.13	0.00	2.12
32 Year Real Discount Rate	1.62	2.34	2.85	3.82	1.92	0.00	2.00
33 Year Real Discount Rate	1.61	2.29	2.78	3.74	1.83	0.00	1.88
34 Year Real Discount Rate	1.59	2.29	2.78	3.74	1.83	0.00	1.82
35 Year Real Discount Rate	1.55	2.26	2.75	3.72	1.82	0.00	1.82
36 Year Real Discount Rate	1.54	2.24	2.72	3.67	1.79	0.00	1.79
37 Year Real Discount Rate	1.54	2.22	2.67	3.61	1.75	0.00	1.78
38 Year Real Discount Rate	1.53	2.20	2.64	3.57	1.77	0.00	1.78
39 Year Real Discount Rate	1.53	2.19	2.62	3.54	1.75	0.00	1.83
40 Year Real Discount Rate	1.54	2.19	2.60	3.50	1.73	0.00	1.82
41 Year Real Discount Rate	1.56	2.20	2.61	3.49	1.72	0.00	1.80
42 Year Real Discount Rate	1.58	2.21	2.61	3.48	1.73	0.00	1.77
43 Year Real Discount Rate	1.59	2.21	2.61	3.47	1.73	0.00	1.76
44 Year Real Discount Rate	1.60	2.22	2.62	3,46	1.74	0.00	1.76
45 Year Real Discount Rate	1.59	2.23	2.62	3.46	1.76	0.00	1.76
46 Year Real Discount Rate	1.59	2.23	2.62	3.44	1.77	0.00	1.76
47 Year Real Discount Rate	1.61	2.26	2.64	3.45	1.80	0.00	1.80
48 Year Real Discount Rate	1.56	2.21	2.59	3.40	1.78	0.00	1.80
49 Year Real Discount Rate	1.53	2.18	2.55	3.34	1.75	0.00	1.78
50 Year Real Discount Rate	1.52	2.17	2.53	3.31	1.74	0.00	1.79

Table 4

Net Medical Discount Rates
based on Various Interest Rates and the Growth Rate in the MCPI
for Numbers of Years Ending in 2005

1 Yr Med Discount Rate		year year	year Aaa 0.09 1.00 -0.02 1.09 -0.01 1.26 -0.03 1.37 0.06 1.57 0.06 2.09 0.77 2.23 1.07 2.63 1.24 2.65 1.31 2.68 1.32 2.65 1.15 2.45 1.02 2.29 0.93 2.16 0.92 2.12 0.99 2.17 0.99 2.19 0.95 2.15 1.10 2.28 1.35 2.45 1.31 2.48 1.35 2.45 1.37 2.42 1.38 2.26 1.16 2.13	year Aaa M O.09 1.00 O.09 1.00 O.09 1.00 O.001 1.26 O.001 1.26 O.003 1.37 O.06 1.57 O.06 2.09 O.77 2.23 1.07 2.63 1.07 2.63 1.107 2.68 1.31 2.68 1.31 2.68 1.31 2.45 1.02 2.29 O.93 2.16 O.92 2.12 O.99 2.17 O.99 2.17 O.99 2.17 O.99 2.19 O.99 2.17 O.99 2.19 O.99 2.17 O.99 2.17
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Ireland: Historical Net Discount Rates --An Update Through 2005

50 Yr Med Discount Rate 47 Yr Med Discount Rate 46 Yr Med Discount Rate 49 Yr Med Discount Rate 48 Yr Med Discount Rate 45 Yr Med Discount Rate 44 Yr Med Discount Rate 43 Yr Med Discount Rate 42 Yr Med Discount Rate 41 Yr Med Discount Rate 40 Yr Med Discount Rate 39 Yr Med Discount Rate 38 Yr Med Discount Rate 37 Yr Med Discount Rate 36 Yr Med Discount Rate 35 Yr Med Discount Rate 34 Yr Med Discount Rate 32 Yr Med Discount Rate 31 Yr Med Discount Rate 30 Yr Med Discount Rate 33 Yr Med Discount Rate Table 4 (Cont.) Number of Years Ending in 2005 -0.25 -0.26 -0.19 -0.17 -0.24-0.16 -0.16 -0.17 -0.19 -0.30 month -0.28-0.24-0.23-0.25-0.27 -0.24-0.23-0.26-0.37-0.36-0.19မှ 3-year 0.37 0.390.400.450.460.46 0.45 0.44 0.43 0.36 0.350.410.43 0.44 0.33 0.40 0.430.460.400.390.54 0.73 0.750.780.820.840.850.84 0.83 0.82 0.77 0.790.78 0.850.910.880.910.940.880.830.91year 1.07 <u>1</u>0-1.62 1.49 1.53 1.57 1.651.67 1.67 1.65 1.661.671.681.68 1.81 1.85 1.86 1.88 1.83 Corp. 1.76 1.78 1.86 2.03 Municipa -0.02 -0.00 0.00 -0.02 -0.07 -0.09 0.00 -0.03 -0.05 -0.08 -0.01 -0.03 -0.01 -0.05 -0.00 0.01-0.08 0.010.17 -1.73 -1.79 -1.76 -1.75 -1.77 -1.77 -1.73 -1.73-1.73 -1.74 -1.77 -1.80 -1.74 -1.75 -1.84 -1.76 -1.79 -1.96 -1.79 -2.08-2.06 Incr. CPI 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 Med CPI 0.00

Table 5
Annual Values for Various Interest Rates and Growth Rates in the Average Weekly Earnings and the Total Compensation Series of the Employer Cost Index from 1965-2005

rear	o-month	o-year	10-year	Corp Maa	TAT INTICIPAL	Municipal Av. WK.70	T COST /6
1965	4.111	4.22	4.28	4.49	3.27	4.2	n.a
1966	5.106	5.23	4.92	5.13	3.82	3.5	n.a
1967	4.504	5.03	5.07	5.51	3.98	2.8	n.a
1968	5.601	5.68	5.65	6.18	6.94	5.4	n.a
1969	7.066	7.02	6.67	7.03	5.81	6.1	n.a
1970	6.825	7.29	7.35	8.04	6.51	4.2	n.a
1971	4.533	5.65	6.16	7.39	5.70	6.2	n.a
1972	4.236	5.72	6.21	7.21	5.27	7.7	n.a
1973	7.469	6.95	6.84	7.44	5.18	6.2	n.a
1974	8.411	7.82	7.56	8.57	6.09	5.6	n.a
1975	6.145	7.49	7.99	8.83	6.89	5.6	n.a
1976	5.222	6.77	7.61	8.43	6.49	7.3	n.a
1977	5.521	6.69	7.42	8.02	5.56	6.9	n.a
1978	7.669	8.29	8.41	8.73	5.90	7.6	n.a
1979	10.862	9.71	9.44	9.63	6.39	7.2	n.a
1980	12.568	11.55	11.46	11.94	8.51	6.8	n.a
1981	15.583	14.44	13.91	14.17	11.23	8.6	9.9
1982	11.609	12.92	13.00	13.79	11.57	4.3	6.5
1983	9.250	10.45	11.10	12.04	9.47	4.8	5.7
1984	10.332	11.89	12.44	12.71	10.15	4.1	4.9
1985	7.957	9.64	10.62	11.37	9.18	2.4	3.9
1986	6.300	7.06	7.68	9.02	7.38	1.6	3.2
1987	6.125	7.68	7.68	9.38	7.73	2.4	3.3
1988	7.080	8.26	8.85	9.71	7.76	3.0	4.8
1989	8.674	8.55	8.49	9.26	7.24	3.6	4.8
1990	7.991	8.26	8.55	9.32	7.25	3.3	4.6
1991	5.689	6.82	7.85	8.77	6.89	2.5	4.4
1992	3.576	5.30	7.01	8.14	6.41	2.7	3.5
		4.44	5.87	7.22	5.63	2.9	3.6
1993	3.121			1	6 10	3.3	3.1

Ireland: Historical Net Discount Rates --An Update Through 2005

The Earnings Analyst

Volume VIII 2006

Year	3-month	3-year	10-year	Corp Aaa	Corp Aaa Municipal Av. Wk.% E Cost %	Av. Wk.%	E Cost
1995	5.787	6.25	6.57	7.59	5.95	2.3	2.6
1996	5.256	5.99	6.44	7.37	5.75	3.3	3.1
1997	5.310	6.10	6.35	7.87	5.55	4.5	3.4
1998	5.029	5.14	5.26	6.53	5.12	3.9	3.8
1999	4.868	5.49	5.65	7.04	5.43	3.2	3.3
2000	6.158	6.22	6.03	7.62	5.77	3.9	4.4
2001	3.576	4.09	5.02	7.08	5.19	2.7	4.0
2002	1.659	3.10	4.61	6.49	5.05	2.6	3.2
2003	1.041	2.10	4.01	5.67	4.73	2.6	3.8
2004	1.411	2.78	4.27	5.63	4.63	2.2	3.9
2005	3.269	3.93	4.29	5.24	4.29	2.9	3.2

Interest rates are taken from Table B-73 of the Economic Report of the President: 2006. Percentage increases in Average Weekly Earnings are taken from Table B-47 and percentage increases in the Total Compensation series of the Employer Cost Index are taken from Table B-48. The ECI figure for 2005 is estimated at 3.2 percent based on results in the first three quarters. "3-Month" refers to the 90 Day U.S. Treasury Bill, "3-Year" refers to a constant maturity U.S. Treasury three year note, "10 Year" refers to a 10 Year U.S. Treasury Bond, "Corp. Aaa" refers to the Corporate Aaa rate, Muni refers o the High Grade Municipal rate, "Av.Wk %" refers to Average Weekly Earnings, and "E Cost%" refers to the total compensation series in the Employer Cost Index. The 91 Day Treasury Bill rate is converted from "bank discount" to "effective yield."

Table 6
Average Rates for Various Interest Rates and Growth Rates in the Average Weekly Earnings and Total Compensation Series in the Employer Cost Index for the Number of Years Shown as Ending in 2005

Cont. p. 64	29 Year Average Rate	28 Year Average Rate	27 Year Average Rate	26 Year Average Rate	25 Year Average Rate	24 Year Average Rate	23 Year Average Rate	22 Year Average Rate	21 Year Average Rate	20 Year Average Rate	19 Year Average Rate	18 Year Average Rate	17 Year Average Rate	16 Year Average Rate	15 Year Average Rate	14 Year Average Rate	13 Year Average Rate	12 Year Average Rate	11 Year Average Rate	10 Year Average Rate	9 Year Average Rate	8 Year Average Rate	7 Year Average Rate	6 Year Average Rate	5 Year Average Rate	4 Year Average Rate	3 Year Average Rate	2 Year Average Rate	1 Year Average Rate	Number of Years to 2005
	6.47	6.51	6.46	6.30	6.04	5.65	5.39	5.21	4.97	4.82	4.74	4.66	4.52	4.26	4.01	3.90	3.92	3.99	3.94	3.76	3.59	3.38	3.14	2.85	2.19	1.85	1.91	2.34	3.27	3-month
	7.22	7.24	7.20	7.10	6.93	6,61	6.34	6.15	5.88	5.69	5.62	5.50	5.34	5.14	4.93	4.80	4.76	4.79	4.65	4.49	4.33	4.11	3.96	3.70	3.20	2.98	2.94	3.36	3.93	3-year
	7.77	7.78	7.76	7.70	7.55	7.28	7.03	6.85	6.58	6.38	6.31	6.23	6.08	5.93	5.75	5.61	5.50	5.47	5.32	5.19	5.05	4.89	4.84	4.71	4.44	4.30	4.19	4.28	4.29	10-year
	8.80	8.83	8.84	8.81	8.68	8.45	8.22	8.05	7.82	7.65	7.57	7.47	7.34	7.22	7.08	6.96	6.87	6.84	6.74	6.65	6.57	6.41	6.40	6.29	6.02	5.76	5.51	5.44	5.24	Corp Aaa
	6.82	6.87	6.91	6.93	6.86	6.68	6.47	6.33	6.15	6.00	5.92	5.82	5.71	5.61	5.51	5.41	5.33	5.30	5.22	5.15	5.08	5.03	5.01	4.94	4.78	4.68	4.55	4.46	4.29	Municipal
	3.87	3.76	3.61	3.48	3.34	3.13	3.07	3.00	2.94	2.97	3.04	3.08	3.08	3.05	3.03	3.07	3.10	3.12	3.10	3.18	3.17	3.00	2.87	2.82	2.60	2.58	2.57	2,55	2.90	Av. Wk.%
	п.а.	n.a.	n.a.	n.a.	4.20	3.96	3.85	3.76	3.71	3.70	3.73	3.75	3.69	3.62	3.55	3.49	3.49	3.48	3.52	3.61	3.67	3.70	3.69	3.75	3.62	3.53	3.63	3.55	3.20	E Cost %

Ireland: Historical Net Discount Rates --An Update Through 2005

Table 6 (Cont.)							
Number of Years to 2005	3-month	3-year	10-year	Corp Aaa	Municipal	Av. Wk.%	E Cost
30 Year Average Rate	6.43	7.21	7.77	8.79	6.81	3.98	n.a.
31 Year Average Rate	6.42	7.22	7.77	8.79	6.82	4.03	n.a.
32 Year Average Rate	6.49	7.23	7.77	8.79	6.79	4.08	n.a.
33 Year Average Rate	6.51	7.23	7.74	8.74	6.74	4.15	n.a.
34 Year Average Rate	6.45	7.18	7.69	8.70	6.70	4.25	n.a.
35 Year Average Rate	6.39	7.14	7.65	8.66	6.67	4.31	n.a.
36 Year Average Rate	6.41	7.14	7.64	8.65	6.67	4.30	n.a.
37 Year Average Rate	6.42	7.14	7.62	8.60	6.64	4.35	n.a.
38 Year Average Rate	6.40	7.10	7.56	8.54	6.65	4.38	n.a.
39 Year Average Rate	6.35	7.05	7.50	8.46	6.58	4.34	n.a.
40 Year Average Rate	6.32	7.01	7.43	8.36	6.49	4.35	n.a.

The Employer Cost Index is Available in the Economic Report of the President:2005 only after 1984, but 1981-1983 were provided in the Economic Report of the President:2003 and were retained in this table, allowing 24 years of comparisons. Abbreviations are provided in the notes for Table 5.

Table 7

Net Discount Rates

Based on Average Weekly Earnings of American Workers

Compared with Various Interest Rates for the Number of Years

Ending in 2005

Number of Years Ending in 2005	3-month 3-year 10-year	3-year	10-year	Corp Aaa	Municipal	Av. Wk.%	E Cost %
1 Year Net Discount Rate	0.36	1.00	1.35	2.27	1.35	0.00	86.0
2 Year Net Discount Rate	-0.20	0.78	1.69	2.81	1.86	0.00	0.98
3 Year Net Discount Rate	-0.64	0.36	1.58	2.87	1.93	0.00	1.04
4 Year Net Discount Rate	-0.71	0.39	1.68	3.10	2.05	0.00	0.93
5 Year Net Discount Rate	-0.40	0.58	1.79	3.34	2.12	0.00	0.99
6 Year Net Discount Rate	0.03	0.86	1.84	3.38	2.07	0.00	0.91
7 Year Net Discount Rate	0.26	1.06	1.91	3.43	2.08	0.00	0.79
8 Year Net Discount Rate	0.37	1.07	1.84	3.31	1.97	0.00	0.68
9 Year Net Discount Rate	0.41	1.13	1.83	3.30	1.86	0.00	0.48
Cont. p. 65							

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ne VIII	ings A
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Table 7 (Cont.)							
Number of Years Ending in 2005	3-month	3-year	10-year	Corp Aaa	Municipal	Av. Wk.%	E Cost
10 Year Net Discount Rate	0.56	1.27	1.95	3.37	1.91	0.00	0.42
11 Year Net Discount Rate	0.82	1.51	2.15	3.53	2.06	0.00	0.41
12 Year Net Discount Rate	0.84	1.62	2.28	3.61	2.12	0.00	0.36
13 Year Net Discount Rate	0.80	1.61	2.32	3.66	2.16	0.00	0.38
14 Year Net Discount Rate	0.80	1.68	2.46	3.77	2.27	0.00	0.41
15 Year Net Discount Rate	0.95	1.85	2.64	3.93	2.40	0.00	0.50
16 Year Net Discount Rate	1.18	2.03	2.79	4.05	2.49	0.00	0.55
17 Year Net Discount Rate	1.40	2.19	2.91	4.13	2.55	0.00	0.59
18 Year Net Discount Rate	1.54	2.35	3.06	4.26	2.66	0.00	0.65
19 Year Net Discount Rate	1.65	2.50	3.17	4.40	2.80	0.00	0.66
20 Year Net Discount Rate	1.80	2.64	3.31	4.54	2.94	0.00	0.71
21 Year Net Discount Rate	1.97	2.85	3.53	4.74	3.11	0.00	0.74
22 Year Net Discount Rate	2.15	3.07	3.74	4.90	3.24	0.00	0.75
23 Year Net Discount Rate	2.25	3.17	3.84	4.99	3.29	0.00	0.75
24 Year Net Discount Rate	2.45	3.38	4.03	5.16	3.45	0.00	0.81
25 Year Net Discount Rate	2.61	3.47	4.07	5.16	3.40	0.00	0.82
26 Year Net Discount Rate	2.72	3.51	4.08	5.15	3.33	0.00	n.a.
27 Year Net Discount Rate	2.75	3.46	4.00	5.04	3.18	0.00	n.a.
28 Year Net Discount Rate	2.65	3.36	3.88	4.89	3.00	0.00	n.a.
29 Year Net Discount Rate	2.51	3.23	3.76	4.75	2.85	0.00	n.a.
30 Year Net Discount Rate	2.36	3.10	3.64	4.63	2.72	0.00	n.a.
31 Year Net Discount Rate	2.30	3.06	3.60	4.58	2.68	0.00	n.a.
32 Year Net Discount Rate	2.31	3.03	3.54	4.52	2.61	0.00	n.a.
33 Year Net Discount Rate	2.28	2.96	3.45	4.42	2.50	0.00	n.a.
34 Year Net Discount Rate	2.11	2.81	3.30	4.27	2.35	0.00	n.a.
35 Year Net Discount Rate	2.00	2.71	3.21	4.18	2.27	0.00	n.a.
36 Year Net Discount Rate	2.02	2.72	3.20	4.16	2.27	0.00	n.a.
37 Year Net Discount Rate	1.99	2.67	3.13	4.07	2.20	0.00	n.a.
38 Year Net Discount Rate	1.94	2.61	3.05	3.98	2.18	0.00	n.a.
39 Year Net Discount Rate	1.93	2.60	3.03	3.95	2.15	0.00	n.a.
40 Year Net Discount Rate	1.89	2.55	2.96	3.84	2.05	0.00	n.a.

Net Discount Rate is calculated as [(1+i)/(1+g)-1], where i is the interest rate being used and g is the rate of increase in Average Weekly Earnings for all American Workers.

Table 8

Net Discount Rates

Based on the Total Compensation Series of the Employer Cost Index

Compared with Various Interest rates for the Number of Years

Ending in 2005

Number of Years Ending in 2005	3-month	3-year	10-year	Corp Aaa	Municipal	Av. Wk.%	E Cost
1 Year Net Discount Rate	0.07	0.71	1.06	1.98	1.06	-0.29	0.00
2 Year Net Discount Rate	-1.17	-0.19	0.70	1.82	0.88	-0.97	0.00
3 Year Net Discount Rate	-1.67	-0.67	0.54	1.81	0.88	-1.03	0.00
4 Year Net Discount Rate	-1.62	-0.53	0.74	2.16	1.11	-0.92	0.00
5 Year Net Discount Rate	-1.38	-0.41	0.79	2.32	1.12	-0.98	0.00
6 Year Net Discount Rate	-0.87	-0.04	0.92	2.45	1.15	-0.90	0.00
7 Year Net Discount Rate	-0.53	0.26	1.11	2.61	1.28	-0.79	0.00
8 Year Net Discount Rate	-0.31	0.39	1.15	2.62	1.28	-0.68	0.00
9 Year Net Discount Rate	-0.07	0.64	1.34	2.80	1.37	-0.48	0.00
10 Year Net Discount Rate	0.14	0.85	1.53	2.94	1.49	-0.42	0.00
11 Year Net Discount Rate	0.41	1.10	1.74	3.11	1.65	-0.40	0.00
12 Year Net Discount Rate	0.49	1.26	1.92	3.24	1.76	-0.35	0.00
13 Year Net Discount Rate	0.41	1.23	1.94	3.26	1.77	-0.38	0.00
14 Year Net Discount Rate	0.39	1.26	2.04	3.35	1.85	-0.41	0.00
15 Year Net Discount Rate	0.45	1.33	2.13	3.41	1.89	-0.50	0.00
16 Year Net Discount Rate	0.62	1.47	2.23	3.48	1.93	-0.55	0.00
17 Year Net Discount Rate	0.80	1.60	2.31	3.52	1.95	-0.58	0.00
18 Year Net Discount Rate	0.88	1.69	2.39	3.59	2.00	-0.65	0.00
19 Year Net Discount Rate	0.98	1.83	2.49	3.71	2.12	-0.66	0.00
20 Year Net Discount Rate	1.08	1.92	2.58	3.80	2.22	-0.70	0.00
21 Year Net Discount Rate	1.21	2.09	2.77	3.97	2.35	-0.74	0.00
22 Year Net Discount Rate	1.40	2.30	2.97	4,13	2.47	-0.74	0.00
23 Year Net Discount Rate	1.48	2.40	3.07	4.21	2.52	-0.75	0.00
24 Year Net Discount Rate	1.62	2.55	3.20	4.32	2.62	-0.80	0.00
25 Year Net Discount Rate	1.77	2.62	3.21	4.30	2.56	-0.82	0.00

Net Discount Rate calculated as [(1+i)/(1+g)-1], where i is the interest rate being used and g is the rate of increase in the total compensation series of the Employer Cost Index.

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