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June 19, 2008

Mr. Dale S. Orr Actuarial Services Manager Oregon PERS P.O. Box 23700 Tigard, OR 97281-3700

Via E-Mail

Subject: Request Number: 2008-013 2008 Purchasing Power Study

Dear Dale:

As requested, we updated the annual purchasing power study for 2008 to compare how well monthly benefits paid to retirees and beneficiaries have kept up with inflation since retirement. Since the last study, the Consumer Price Index for Portland increased 3.71 percent in 2007. With all retirees receiving a 2.0 percent annual cost-of-living adjustment, retirees experienced a decrease in purchasing power over the year.

Purchasing power in this report is defined as the cumulative post-retirement benefit increases in Tier 1/Tier 2 benefits compared to the cumulative CPI increases since the year of retirement. The chart below shows the change in purchasing power from 2007 to 2008 by year of retirement.

Year	Purchasing Power		Year	Purchasing Power	
Retired	2007	2008	Retired	2007	2008
1980 & prior	77.4%	76.1%	1988	80.3%	79.0%
1981	80.1%	78.8%	1989	81.5%	80.1%
1982	82.1%	80.8%	1990	83.8%	82.5%
1983	82.3%	80.9%	1991	87.0%	85.5%
1984	80.0%	78.7%	1992	89.6%	88.1%
1985	79.0%	77.7%	1993	91.7%	90.2%
1986	79.9%	78.6%	1994	93.1%	91.5%
1987	79.9%	78.6%	1995	93.9%	92.4%

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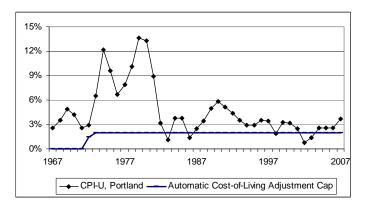
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Purchasing Power		Vear	Purchasing Power	
2007	2008	Retired	2007	2008
94.7%	93.2%	2003	98.3%	96.7%
96.1%	94.6%	2004	98.3%	96.7%
97.4%	95.8%	2005	98.9%	97.2%
97.4%	95.8%	2006	99.4%	97.8%
98.3%	96.7%	2007	100.0%	98.4%
98.3%	96.7%	2008		100.0%
98.3%	96.7%			
	2007 94.7% 96.1% 97.4% 97.4% 98.3% 98.3%	2007 2008 94.7% 93.2% 96.1% 94.6% 97.4% 95.8% 97.4% 95.8% 98.3% 96.7% 98.3% 96.7%	2007 2008 Year 94.7% 93.2% 2003 96.1% 94.6% 2004 97.4% 95.8% 2005 97.4% 95.8% 2006 98.3% 96.7% 2008	Year 2007 2008 Retired 2007 94.7% 93.2% 2003 98.3% 96.1% 94.6% 2004 98.3% 97.4% 95.8% 2005 98.9% 97.4% 95.8% 2006 99.4% 98.3% 96.7% 2007 100.0% 98.3% 96.7% 2008 100.0%

Inflation

Cost-of-living adjustments (COLAs) are automatically granted each year to retirees and beneficiaries up to a maximum of 2 percent based on the Consumer Price Index for Portland (defined by All Items, All Urban Consumers, Portland-Salem, OR-WA, Annual Average) as released by the Department of Labor. If the Consumer Price Index for Portland (CPI – Portland) exceeds 2 percent, then the retiree receives a 2 percent COLA and the remaining percentage is carried forward in a "bank" to be used in future years when the CPI-Portland is less than 2 percent. Retirees who have recently retired, and do not have a "bank" balance, receive a COLA equal to the CPI-Portland amount if less than 2 percent, otherwise they receive 2 percent.

The graph below page shows the CPI-Portland compared to the automatic cost-of-living adjustment cap that is currently 2.0 percent.



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The automatic COLA was established in 1972, and there have only been five years (1983, 1986, 1998, 2002 and 2003) when inflation has been below the COLA cap. Consequently, retiree benefits have tended to lose their purchasing power. Attachment A shows the history of increases in CPI-Portland from 1962 through 2007.

The historical COLA amounts granted to retirees and beneficiaries are shown below:

Date	COLA	Exceptions
July 1972	1.5%	
July 1973 – present	2.0% (maximum COLA)	1.08% in 1984 if retired on or after August 1983
		1.41% in 1987 if retired on or after August 1986
		1.89% in 1999 if retired on or after August 1998
		1.24% in 2003 if retired on or after August 2001 and prior to August 2002
		0.77% in 2003 if retired on or after August 2002
		1.36% in 2004 if retired on or after August 2001 and prior to August 2004
		1.73% in 2004 if retired on or after August 2000 and prior to August 2001

Benefit Increases

From April 1964 through December 1971 there were some one-time additional payments granted to retirees. These payments are not included in this analysis as they did not affect the ongoing benefit paid to the retiree. A summary of the one-time payments follows:

Effective Date	One Time Payment Amount
April 1964	Monthly Benefit
April 1965	1.5 × Monthly Benefit
April 1966, April 1967	2 × Monthly Benefit
April 1968, April 1969, April 1970, April 1971	3 × Monthly Benefit
December 1971	3.5 × Monthly Benefit

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In addition, retirees and beneficiaries have been granted ad hoc benefit increases that resulted in increased monthly benefits going forward. A summary of the ad hoc increases granted by legislation is shown below, with the graded increases shown on Attachment B.

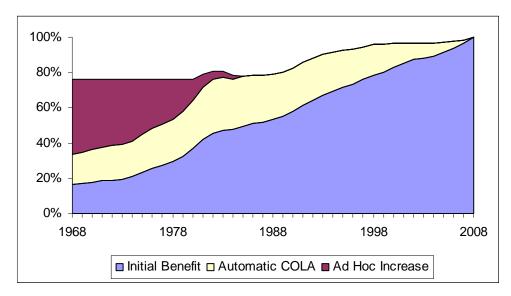
Effective Date	Ad Hoc Increase Granted by Legislation		
January 1972	25% if retired prior to January 1968		
	12% if retired after December 1967 and prior to January 1972		
January 1974	25% if retired prior to January 1968		
	20% if retired after December 1967 and prior to January 1972		
	12% if retired after December 1971 and prior to January 1974		
October 1977	25% on first \$50 of monthly benefit		
	15% on next \$100		
	10% on next \$100		
	5% on next \$100 and		
	1% on monthly benefit over \$350		
July 1979	2% for all retirees		
July 1980	2% for all retirees		
August 1981	Graded table by year of retirement to 11.40%		
July 1982	Graded table by year of retirement to 11.40%		
July 1985	Graded table by year of retirement to 7.28%		
July 1986	Graded table by year of retirement to 7.28%		
July 1989	Graded table by year of retirement to produce a 95% replacement of original purchasing power		

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Current Purchasing Power

The current purchasing power of retirees depends on both the automatic COLA increases and the ad hoc increases granted, compared to the growth in the CPI over the same time period. The graph below shows the cumulative effects of increases granted as a percentage of a benefit adjusted by CPI by year of retirement.



As shown in the graph above, for long-time retired members, the majority of the increases in their benefits since retirement have come from ad hoc increases. Retirees who retired within the past 19 years have not received any ad hoc increases. However, inflation has been significantly lower than in the late 1970's, and the automatic COLA increases have tracked changes in CPI more closely. Purchasing power for retirees since 1993 has remained within 90 percent of their original purchasing power.

Attachment C compares the cumulative post-retirement benefit increases in Tier 1/Tier 2 benefits to the cumulative CPI increases for the last 40 years. The middle columns show the level an initial benefit of \$100 per month would have risen to based on CPI increases and increases granted through PERS. The columns on the right show the percentage of the original \$100 benefit and the PERS-adjusted benefit as a percentage of the CPI-adjusted benefit.

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For example, a 1968 retiree with a \$100 per month original benefit would need to be receiving \$610.62 per month now to have kept pace with inflation. Benefit increases granted through PERS increased the \$100 per month benefit to \$464.77 per month. The original benefit of \$100 per month is 16.4 percent of the CPI-adjusted benefit and the PERS-adjusted benefit of \$464.77 is 76.1 percent of the CPI-adjusted benefit.

Our analysis and conclusions are based on the data, methods and assumptions described above. Differences in the methods and assumptions may produce different results.

If you have any questions about the purchasing power report or need any additional information, please let us know

Sincerely,

[BJM]

Brenda Majdic, ASA, EA, MAAA

ADS/BJM/mrl:scg Enclosure

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Attachment A

History of Consumer Price Index - Portland

Year	CPI 1967 Basis	Annual Percentage Increase	Year	CPI 1967 Basis	CPI 1982- 84 Basis	Annual Percentage Increase
1962	88.5		1985	312.4		3.79%
1963	90.2	1.92%	1986	316.8	108.2	1.41%
1964	92.2	2.22%	1987		110.9	2.50%
1965	94.6	2.60%	1988		114.7	3.43%
1966	97.5	3.07%	1989		120.4	4.97%
1967	100.0	2.56%	1990		127.4	5.81%
1968	103.5	3.50%	1991		133.9	5.10%
1969	108.6	4.93%	1992		139.8	4.41%
1970	113.2	4.24%	1993		144.7	3.51%
1971	116.1	2.56%	1994		148.9	2.90%
1972	119.5	2.93%	1995		153.2	2.89%
1973	127.3	6.53%	1996		158.6	3.52%
1974	142.8	12.18%	1997		164.0	3.40%
1975	156.5	9.59%	1998		167.1	1.89%
1976	167.0	6.71%	1999		172.6	3.29%
1977	180.2	7.90%	2000		178.0	3.13%
1978	198.4	10.10%	2001		182.4	2.47%
1979	225.4	13.61%	2002		183.8	0.77%
1980	255.4	13.31%	2003		186.3	1.36%
1981	278.2	8.93%	2004		191.1	2.58%
1982	287.0	3.16%	2005		196.0	2.56%
1983	290.1	1.08%	2006		201.1	2.60%
1984	301.0	3.76%	2007		208.556	3.71%

Source: U.S. Department of Labor, Bureau of Labor Statistics Consumer Price Index, All Items, All Urban Consumers, Portland-Salem, OR-WA, Annual Average

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Attachment B

Year -		Ad Hoc Adj	ustments by Effe	ective Year	
Retired	1981	1982	1985	1986	1989
1950	11.40	11.40	7.28	7.28	18.00
1951	10.64	10.64	7.28	7.28	19.00
1952	10.56	10.56	7.28	7.28	10.00
1953	10.16	10.16	7.28	7.28	8.00
1954	10.04	10.04	7.28	7.28	8.00
1955	10.00	10.00	7.25	7.25	7.00
1956	9.68	9.68	7.06	7.06	9.00
1957	9.28	9.28	6.82	6.82	9.00
1958	9.08	9.08	6.70	6.70	5.00
1959	8.96	8.96	6.62	6.62	3.00
1960	8.76	8.76	6.50	6.50	3.00
1961	8.64	8.64	6.42	6.42	2.00
1962	8.56	8.56	6.37	6.37	1.00
1963	8.32	8.32	6.22	6.22	1.00
1964	8.12	8.12	6.09	6.09	_
1965	7.88	7.88	5.94	5.94	_
1966	7.56	7.56	5.73	5.73	_
1967	7.36	7.36	5.60	5.60	_
1968	7.20	7.20	5.49	5.49	7.00
1969	6.88	6.88	5.28	5.28	4.00
1970	6.60	6.60	5.09	5.09	_
1971	6.36	6.36	4.93	4.93	_
1972	6.20	6.20	4.82	4.82	15.00
1973	5.92	5.92	4.63	4.63	14.00
1974	5.28	5.28	4.17	4.17	25.00
1975	4.92	4.92	3.92	3.92	15.00
1976	4.72	4.72	3.77	3.77	7.00
1977	4.44	4.44	3.57	3.57	3.00
1978	4.76	4.76	3.80	3.80	16.00
1979	4.32	4.32	3.48	3.48	11.00
1980	4.00	4.00	3.24	3.24	3.00
1981	_	4.00	3.09	3.09	_
1982		_	3.01	3.01	_
1983			3.00	3.00	_
1984				3.00	_
1985			_	_	_
1986				_	_
1987					_
1988					_
1989					_

Oregon Public Employees Retirement System

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Attachment C

Comparison of Tier 1/Tier 2 Benefits to CPI at August, 2008

	Number of	Cumulati	ive Increase	Purchasing Power	
Year Retired	Years	СРІ	Tier 1/Tier 2	Initial	Tier 1/Tier 2
1968	40	610.62	464.77	16.4%	76.1%
1969	39	589.97	449.05	17.0%	76.1%
1970	38	562.26	427.96	17.8%	76.1%
1971	37	539.41	410.57	18.5%	76.1%
1972	36	525.94	400.32	19.0%	76.1%
1973	35	510.98	388.93	19.6%	76.1%
1974	34	479.67	365.10	20.8%	76.1%
1975	33	427.60	325.47	23.4%	76.1%
1976	32	390.17	296.98	25.6%	76.1%
1977	31	365.64	278.30	27.3%	76.1%
1978	30	338.86	257.92	29.5%	76.1%
1979	29	307.77	234.26	32.5%	76.1%
1980	28	270.90	206.20	36.9%	76.1%
1981	27	239.08	188.30	41.8%	78.8%
1982	26	219.49	177.26	45.6%	80.8%
1983	25	212.76	172.17	47.0%	80.9%
1984	24	210.49	165.61	47.5%	78.7%
1985	23	202.86	157.66	49.3%	77.7%
1986	22	195.46	153.63	51.2%	78.6%
1987	21	192.75	151.50	51.9%	78.6%
1988	20	188.06	148.56	53.2%	79.0%
1989	19	181.83	145.68	55.0%	80.1%
1990	18	173.22	142.82	57.7%	82.5%
1991	17	163.70	140.02	61.1%	85.5%
1992	16	155.76	137.28	64.2%	88.1%
1993	15	149.18	134.59	67.0%	90.2%
1994	14	144.13	131.95	69.4%	91.5%
1995	13	140.06	129.36	71.4%	92.4%
1996	12	136.13	126.82	73.5%	93.2%
1997	11	131.50	124.34	76.0%	94.6%
1998	10	127.17	121.77	78.6%	95.8%
1999	9	124.81	119.51	80.1%	95.8%
2000	8	120.83	116.86	82.8%	96.7%
2001	7	117.17	113.30	85.3%	96.7%
2002	6	114.34	110.56	87.5%	96.7%
2003	5	113.47	109.72	88.1%	96.7%
2004	4	111.95	108.24	89.3%	96.7%
2005	3	109.13	106.12	91.6%	97.2%
2006	2	106.41	104.04	94.0%	97.8%
2007	1	103.71	102.00	96.4%	98.4%
2008	0	100.00	100.00	100.0%	100.0%