Importance of COLA's for Pension Plans Monday, September 23rd 10:30am - 11:00am

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Topics

- Defined Benefit (DB) Plan
- Effect of Inflation

- Illustrative Examples COLA
- Cost Mitigation Strategies for COLA's

 Powerful financial tool in retirement that helps protect members against outliving their money

- Getting guaranteed annual income in retirement provides a member with financial security
 - We do not want to be watching the stock market every day in retirement hoping it goes up so we can maintain our life style

- What is better in retirement: a nest egg or annual income?
 - Like everything else in life, a balance is best

 Ideally a member would have a nest egg earning interest (CD's, stocks, bonds and/or real estate) and annual income from a DB Plan and Social Security

- When should you retire in a DB Plan?
 - Many variables to consider
 - Nobody rings a bell when you will be able to retire
- Cost of Living Adjustments (COLAs) in a DB Plan are extremely important



"Find a hobby, like rock-climbing or skydiving. You have to protect yourself from the cost of living too long."

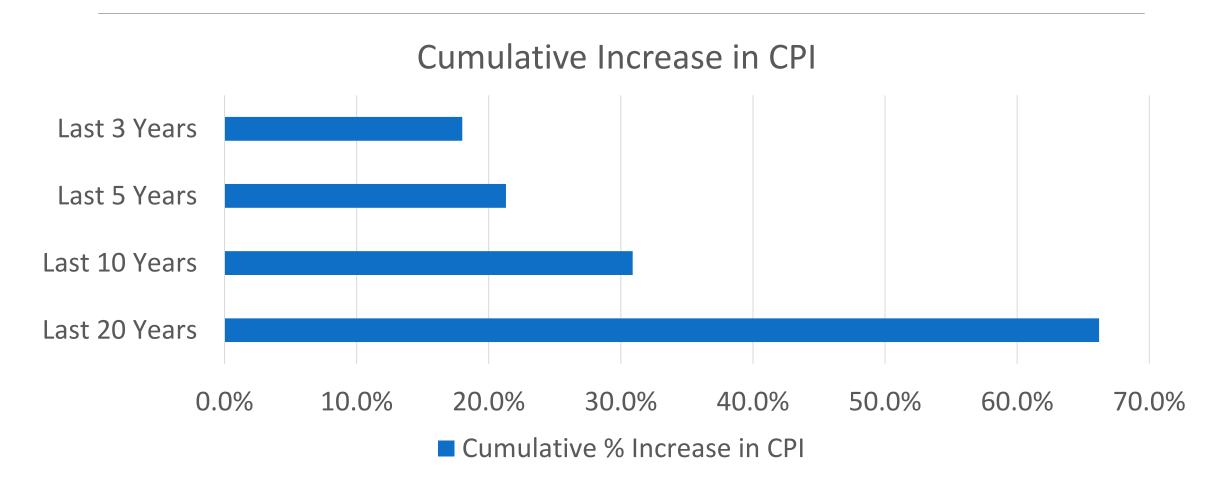
Four Common Fears for Retirees

- Lifestyle
- Becoming a financial burden
- Health
- Outliving your money
 - This is the #1 fear for retirees
 - A DB Plan provides a layer of security against outliving your money and a COLA in your DB Plan reinforces the strength of that layer

Effect of Inflation

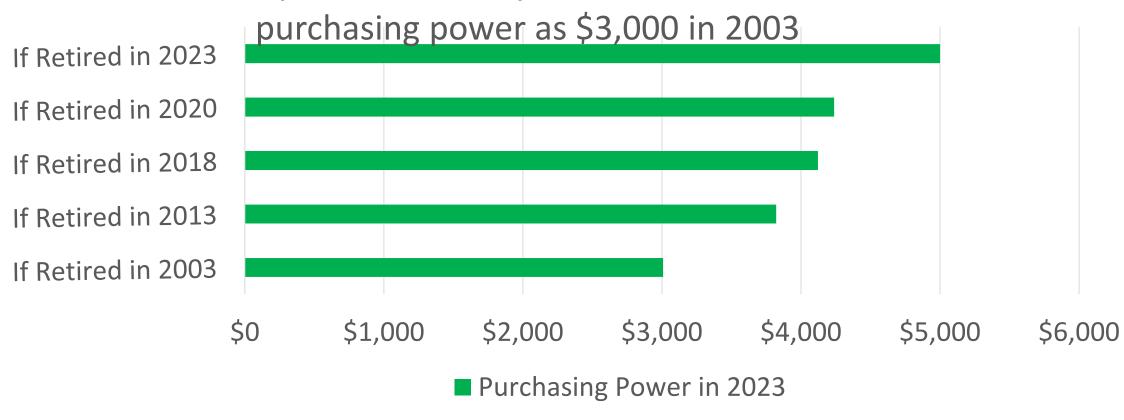
- Inflation is a key risk to the purchasing power of your DB plan benefit
- After 20 years of mild inflation, the pandemic was a primary driver of a surge in inflation over the last 3 years
- Even mild inflation can wipe out a significant amount of your pension benefit's purchasing power

Effect of Inflation



Effect of Inflation

How many dollars would you need to have the same



- Baseline assumptions for our examples (unless otherwise stated)
 - Hired at age 25
 - Retire at age 50
 - Age at death 90
 - Average Final Compensation (\$80,000)
 - Discount rate of 6.0%
 - o CPI of 2.5% per year
- To determine the best choice for retiree we compare
 - Benefit levels at certain ages
 - o Total payments from age 50 to age 90
 - Present value at retirement of all payments

Keeping up with Inflation

How much purchasing power is lost due to inflation?

Example #1 - Results

	Annual Benefit		
	3.5% benefit multiplier	3.5% benefit multiplier with	Annual Loss of Purchasing
Age	and 0% COLA	CPI based COLA (2.5%)	Power
50	70,000	70,000	0
55	70,000	79,200	9,200
60	70,000	89,608	19,608
65	70,000	101,383	31,383
70	70,000	114,706	44,706
75	70,000	129,779	59,779
80	70,000	146,833	76,833
85	70,000	166,129	96,129
90	70,000	187,959	117,959
Total Loss of Purchasing Power			2,036,157
Precent Value of Loss of Purchasing Power			461,618

Illustrative Example #1 – Take Away

 This member may have thought they were in good shape when they retired at age 50 with an annual benefit of \$70,000

 Due to inflation the \$70,000 annual benefit has lost a significant amount of purchasing power in the later years of retirement

How Important is the level of a COLA

 Let's discuss the difference between a 0%, 2%, and 3% COLA on an initial benefit of \$70,000 per year

Example #2 - Results

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	3.5% benefit multiplier	3.5% benefit multiplier	3.5% benefit multiplier
Age	and 0% COLA	and 2% COLA	and 3% COLA
50	70,000	70,000	70,000
55	70,000	77,286	81,150
60	70,000	85,330	94,076
65	70,000	94,212	109,059
70	70,000	104,018	126,429
75	70,000	114,844	146,567
80	70,000	126,797	169,912
85	70,000	139,994	196,974
90	70,000	154,565	228,346
Total Payment	2,870,000	4,382,754	5,506,516
Present Value	1,123,241	1,471,828	1,711,157

Illustrative Example #2 – Take Away

 There is a significant difference between the benefit level that these three common COLA's provide members

There is also a significant difference in the cost level

A modest COLA is still better than no COLA

Which would you rather have?

- Option 1 3.5% benefit multiplier and no COLA
- Option 2 3.0% benefit multiplier and a 2.0% annual COLA
- Option 3 2.75% benefit multiplier and a 3.0% annual COLA

Example #3 - Results

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	3.5% benefit multiplier	3.0% benefit multiplier	2.75% benefit multiplier
Age	and 0% COLA	and 2% COLA	and 3% COLA
50	70,000	60,000	55,000
55	70,000	66,244	63,761
60	70,000	73,138	73,916
65	70,000	80,750	85,689
70	70,000	89,154	99,337
75	70,000	98,433	115,159
80	70,000	108,678	133,500
85	70,000	119,990	154,763
90	70,000	132,480	179,413
Total Payment	2,870,000	3,756,507	4,326,514
Present Value	1,123,241	1,261,529	1,344,474

Illustrative Example #3 – Take Away

 Negotiations often focus on the benefit multiplier but the importance of a COLA cannot be overstated

■ Option 1 – 3.5% benefit multiplier and no COLA

Option 2 – X.X% benefit multiplier and a 3% annual COLA

• What do you think X is if the <u>present value of the benefit</u> <u>payments</u> over 40 years is the same for the two options?

		Annual Benefit		
	3.5% benefit multiplier	2.30% benefit multiplier		
Age	and 0% COLA	with a 3% COLA	Difference	
50	70,000	45,960	(24,040)	
55	70,000	53,281	(16,719)	
60	70,000	61,767	(8,233)	
65	70,000	71,606	1,606	
70	70,000	83,011	13,011	
75	70,000	96,232	26,232	
80	70,000	111,560	41,560	
85	70,000	129,329	59,329	
90	70,000	149,928	79,928	
Present Value	1,123,241	1,123,241	0	

■ Option 1 – 3.5% benefit multiplier and no COLA

 Option 2 – X.X% benefit multiplier and a 3% annual COLA

• What do you think X is if the <u>total benefit payments</u> over 40 years is the same for the two options?

		Annual Benefit			
	3.5% benefit multiplier	1.82% benefit multiplier			
Age	and 0% COLA	with a 3% COLA	Difference		
50	70,000	36,485	(33,515)		
55	70,000	42,296	(27,704)		
60	70,000	49,033	(20,967)		
65	70,000	56,843	(13,157)		
70	70,000	65,895	(4,105)		
75	70,000	76,390	6,390		
80	70,000	88,556	18,556		
85	70,000	102,660	32,660		
90	70,000	119,010	49,010		
Total Payments	2,870,000	2,870,000	0		

- COLA delays
 - Fixed number of years after retirement
 - Not paid while in the DROP
 - Start at certain age when COLA's are needed most

- COLA payment interval can be anything
 - Annually, biannually, every 3rd year, every 5th year

- Set a maximum benefit subject to COLA
 - Applying COLA only to first \$X,XXX of pension benefit

- Use simple interest instead of compound interest
 - Cost is lower but may not do a good job minimizing the loss of purchasing power

- Provide an optional form of payment with a COLA
 - Lower benefit with a COLA can make it fully or partially actuarial equivalent (may provide a subsidy to the member)

- Ad-hoc or discretionary COLA's
 - One-time benefit increases given to retirees who have not received periodic COLAs, to help restore at least a portion of lost purchasing power since retirement

- Performance-based variable COLAs can be linked to investment performance
 - Takes away some risk for the plan sponsor

- Provide temporary COLA
 - Apply COLA for X years or from ages Y to Z e.g., from age 55 to 65
 - Temporary COLAs can help bridge gaps by applying until eligibility for other benefits, such as Social Security, Medicare

Questions???