# Callan

North Dakota PERS Defined Contribution Plans

Fourth Quarter 2024 Executive Summary

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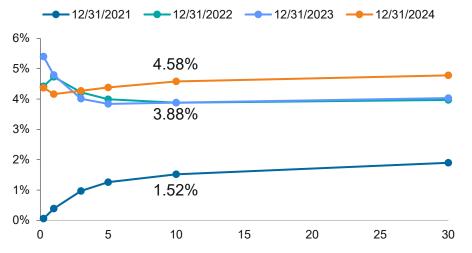
Market Update

## U.S. Economy—Summary

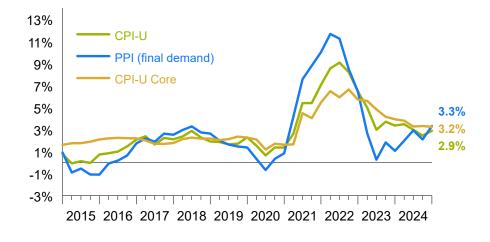
### For periods ended 12/31/24

- The unemployment rate in December was 4.1%, down slightly from 4.2% in November and matching October's figure. This marks an increase from the 3.7% rate at the start of the year.
- GDP rose 2.3% in 4Q according to the advance estimate. A decrease from the 3Q reading of 3.1%.
- Headline CPI increased 2.9% year-over-year in December, while core CPI (ex-food and energy) increased 3.2% over the same period.
- The Fed cut rates by 25 bps in both November and December, bringing the target rate to 4.25%-4.50%. This marks a one percentage point drop from the Fed Funds Rate at the start of the year. The Fed held rates the same at the January 2025 meeting.

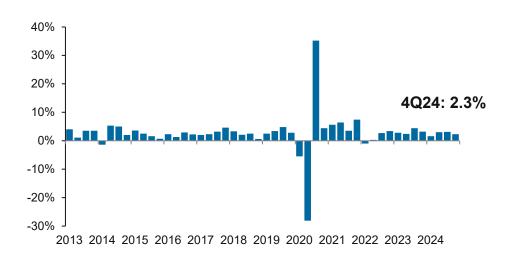
#### **U.S. Treasury Yield Curves**



#### **Inflation Year-Over-Year**



#### Quarterly Real GDP Growth



Sources: Bureau of Labor Statistics, Callan, Federal Reserve

## **Callan Periodic Table of Investment Returns**

								Monthly Returns		
2021	2022	2023	2024	Q1 '24	Q2 '24	Q3 '24	Q4 '24	Oct 24	Nov 24	Dec 24
Large Cap Equity	Private Real Estate	Large Cap Equity	Large Cap Equity	Large Cap Equity	EM Equity	REITS	Large Cap Equity	Private Real Estate	Small Cap Equity	Private Real Estate
28.71%	7.56%	26.29%	4.60%	10.56%	5.00%	16.07%	2.41%	0.28%	10.97%	0.28%
REITS	Interm. Fixed Income	Dev Non-U.S. Equity	High Yield	Dev Non-U.S. Equity	Large Cap Equity	Small Cap Equity	Private Real Estate	High Yield	Large Cap Equity	EM Equity
26.09%	-8.23%	18.24%	1.80%	5.78%	4.28%	9.27%	0.85%	-0.54%	5.87%	-0.14%
Private Real Estate	High Yield	Small Cap Equity	Small Cap Equity	Small Cap Equity	High Yield	EM Equity	Small Cap Equity	Large Cap Equity	REITS	High Yield
21.88%	-11.19%	16.93%	1.04%	5.18%	1.09%	8.72%	0.33%	-0.91%	2.39%	-0.43%
Small Cap Equity	U.S. Fixed Income	High Yield	Private Real Estate	EM Equity	Interm. Fixed Income	Dev Non-U.S. Equity	High Yield	Small Cap Equity	High Yield	Interm. Fixed Income
14.82%	-13.01%	13.44%	0.82%	2.37%	0.64%	7.26%	0.17%	-1.44%	1.15%	-0.62%
Dev Non-U.S. Equity	Dev Non-U.S. Equity	EM Equity	Interm. Fixed Income	High Yield	U.S. Fixed Income	Large Cap Equity	Interm. Fixed Income	Interm. Fixed Income	U.S. Fixed Income	U.S. Fixed Income
11.26%	-14.45%	9.83%	-0.53%	1.47%	0.07%	5.89%	-1.60%	-1.60%	1.06%	-1.64%
High Yield	Large Cap Equity	REITS	U.S. Fixed Income	Interm. Fixed Income	Dev Non-U.S. Equity	High Yield	U.S. Fixed Income	U.S. Fixed Income	Interm. Fixed Income	Dev Non-U.S. Equity
5.28%	-18.11%	9.67%	-1.76%	-0.15%	-0.42%	5.28%	-3.06%	-2.48%	0.62%	-2.27%
Interm. Fixed Income	EM Equity	U.S. Fixed Income	EM Equity	U.S. Fixed Income	Private Real Estate	U.S. Fixed Income	EM Equity	EM Equity	Private Real Estate	Large Cap Equity
-1.44%	-20.09%	5.53%	-1.86%	-0.78%	-0.82%	5.20%	-8.01%	-4.45%	0.28%	-2.38%
U.S. Fixed Income	Small Cap Equity	Interm. Fixed Income	REITS	REITS	REITS	Interm. Fixed Income	Dev Non-U.S. Equity	REITS	Dev Non-U.S. Equity	REITS
-1.54%	-20.44%	5.24%	-6.97%	-1.30%	-2.43%	4.17%	-8.11%	-5.08%	-0.57%	-7.08%
EM Equity	REITS	Private Real Estate	Dev Non-U.S. Equity	Private Real Estate	Small Cap Equity	Private Real Estate	REITS	Dev Non-U.S. Equity	EM Equity	Small Cap Equity
-2.54%	-25.10%	-13.33%	-7.26%	-2.38%	-3.28%	-0.07%	-9.69%	-5.44%	-3.59%	-8.26%

Sources: • Bloomberg Aggregate • Bloomberg Corp High Yield • Bloomberg Int. Gov/Credit • NCREIF ODCE Equal Weight Net

• EPRA/NAREIT Developed • MSCI EAFE • MSCI Emerging Markets • Russell 2000 • S&P 500

Callan

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North Dakota PERS DC Plans

## New Investment Structure With In-Plan Annuity Options

Tier I: Asset Allocation	Tier II: Passive Core	Tier II: Active Core	Tier III: Specialty
Target Date Funds		Capital Preservation	
Nuveen Lifecycle Retirement		Galliard Stable Value	
		Vanguard Treasury MM	
		Empower IFAS VI	
		New York Life Anchor	
	Core Fixed Income	Core Plus Fixed Income	
		Baird Core Plus Bond	
	Vanguard Total Bond Index	Baild Cole Flus Bolid	
	U.S. Large-Cap Equity		
	Vanguard Institutional Index		
	Broad Non-U.S. Equity	Broad Non-U.S. Equity	
	Vanguard Total Intn'l Index	MFS International Diversification	
		U.S. Small/Mid-Cap Equity	
		JP Morgan US SMID Core	
			Real Estate
			Cohen & Steers Realty

Brokerage Window

\* Two annuity options were implemented January 1, 2025



Plan Performance Monitoring				Last	Last	Last
	U	Last	Last	3	5	7
s of December 31, 2024		Quarter	Year	Years	Years	Years
13 01 December 31, 2024	Asset Allocation Funds					
	Nuveen Lifecycle Ret. Inc	(1.47%)	7.66%	1.44%	4.43%	4.67%
	LifeCycle Ret Income CB	(1.79%)	7.92%	1.51%	4.74%	5.09%
	Callan Tgt Dt Idx 2010	(1.88%)	7.07%	1.21%	4.23%	4.64%
	Nuveen Lifecycle 2010 Fund	(1.38%)	7.59%	1.51%	4.46%	4.70%
	LifeCycle 2010 CB	(1.74%)	7.46%	1.30%	4.56%	4.97%
	Callan Tgt Dt Idx 2010	(1.88%)	7.07%	1.21%	4.23%	4.64%
	Nuv een Lifecy cle 2015 Fund	(1.47%)	7.86%	1.45%	4.69%	4.93%
	LifeCy cle 2015 Cust Bnch	(1.78%)	8.09%	1.52%	4.99%	5.36%
	CAI Tgt Dt Idx 2015	(1.89%)	7.36%	1.29%	4.48%	4.87%
	Nuveen Lifecycle 2020 Fund	(1.50%)	8.33%	1.63%	5.05%	5.23%
	LifeCycle 2020 Cust Bnchm	(1.77%)	8.77%	1.78%	5.47%	5.78%
	CAI Tgt Dt Idx 2020	(1.90%)	7.86%	1.50%	4.90%	5.25%
	Nuveen Lifecycle 2025 Fund	(1.49%)	9.06%	1.88%	5.67%	5.74%
	LifeCy cle 2025 Cust Bnch	(1.74%)	9.57%	2.09%	6.06%	6.31%
	CAI Tgt Dt Idx 2025	(1.89%)	8.74%	1.89%	5.65%	5.90%
	Nuveen Lifecycle 2030 Fund	(1.46%)	10.16%	2.31%	6.41%	6.34%
	LifeCycle 2030 Cust Bnch	(1.67%)	10.74%	2.58%	6.81%	6.96%
	CAI Tgt Dt Idx 2030	(1.83%)	10.13%	2.52%	6.57%	6.66%
	Nuveen Lifecycle 2035 Fund	(1.51%)	11.36%	2.88%	7.22%	6.98%
	LifeCycle 2035 Cust Bnch	(1.58%)	12.07%	3.24%	7.68%	7.68%
	CAI Tgt Dt Idx 2035	(1.73%)	11.65%	3.24%	7.53%	7.44%
	Nuveen Lifecycle 2040 Fund	(1.40%)	12.76%	3.61%	8.17%	7.69%
	LifeCycle 2040 Cust Bnch	(1.42%)	13.78%	4.10%	8.67%	8.47%
	CAI Tgt Dt Idx 2040	(1.65%)	13.05%	3.88%	8.31%	8.06%
	Nuv een Lifecy cle 2045 Fund	(1.34%)	13.80%	3.98%	8.86%	8.23%
	LifeCycle 2045 Cust Bnch	(1.27%)	14.94%	4.52%	9.42%	9.07%
	CAI Tgt Dt Idx 2045	(1.61%)	14.04%	4.33%	8.86%	8.48%
	Nuv een Lifecy cle 2050 Fund	(1.34%)	14.27%	4.14%	9.09%	8.40%
	LifeCycle 2050 Cust Bnch	(1.19%)	15.49%	4.70%	9.67%	9.26%
	CAI Tgt Dt Idx 2050	(1.58%)	14.65%	4.61%	9.14%	8.69%
	Nuveen Lifecycle 2055 Fund	(1.29%)	14.46%	4.23%	9.19%	8.48%
	LifeCycle 2055 Cust Bnch	(1.17%)	15.70%	4.79%	9.79%	9.36%
	CAI Tgt Dt Idx 2055	(1.57%)	14.93%	4.73%	9.26%	8.78%
	Nuv een Lifecy cle 2060 Fund	(1.31%)	14.56%	4.29%	9.31%	8.57%
	LifeCycle 2060 Cust Bnch	(1.14%)	15.91%	4.89%	9.92%	9.47%
	Callan Tgt Dt Idx 2060	(1.57%)	15.04%	4.78%	9.32%	8.83%
	Nuveen Lifecycle 2065 Fund	(1.30%)	14.71%	4.42%	-	-
	LifeCycle 2065Custom Ben	(1.12%)	16.11%	4.98%	-	-
	Callan Tgt Dt Idx 2065	(1.57%)	15.07%	4.80%	9.33%	8.83%

## **Plan Performance Monitoring**

## As of December 31, 2024

	Last Quarter	Last Year	Last 3 Years	Last 5 Years	Last 7 Years
Large Cap U.S. Equity					
Vanguard Institutional Index	2.40%	24.97%	8.90%	14.49%	13.80%
S&P 500 Index	2.41%	25.02%	8.94%	14.53%	13.83%
Small/Mid Cap U.S. Equity					
JPMorgan SMID Cap Equity R6	(1.37%)	10.99%	0.77%	6.93%	6.62%
Russell 2500 Index	0.62%	12.00%	2.39%	8.77%	8.33%
Non-U.S. Equity					
MFS International Diversification R6	(7.58%)	6.52%	0.38%	4.70%	5.07%
MSCI ACWI xUS (Net)	(7.60%)	5.53%	0.82%	4.10%	3.53%
Vanguard Total Int'l Stock Adm	(7.42%)	5.14%	0.67%	4.28%	3.61%
FTSE GI All Cap ex US ldx	(7.49%)	5.53%	0.83%	4.42%	3.71%
Fixed Income					
Vanguard Total Bond Index Adm	(3.04%)	1.24%	(2.42%)	(0.32%)	0.97%
BImbg Aggregate FIt Adj	(2.99%)	1.33%	(2.39%)	(0.27%)	1.01%
Baird Core Plus Bond Instl	(2.67%)	2.54%	(1.52%)	0.56%	1.72%
BImbg Universal	(2.73%)	2.04%	(1.95%)	0.06%	1.28%
Capital Preservation					
Galliard Stable Value C	0.77%	2.98%	2.51%	2.28%	2.23%
3-month Treasury Bill	1.17%	5.25%	3.89%	2.46%	2.35%
Vanguard Treasury MM Inv	1.17%	5.24%	3.92%	2.43%	2.30%
3-month Treasury Bill	1.17%	5.25%	3.89%	2.46%	2.35%
Sector Funds					
Cohen & Steers Realty Shares	(8.31%)	6.50%	(3.44%)	4.51%	6.83%
FTSE NAREIT All Eq Index	(8.15%)	4.92%	(4.28%)	3.29%	5.47%

## **Plan Investment Fees**

### As of December 31, 2024

		Total Annual Operating		Callan Peer	
		Expense Ratio	Revenue	Group	
Asset Class and Strategy	Ticker/Vehicle	(Peer Ranking*)	Sharing %	Median**	
Asset Allocation Funds					
Nuveen Lifecycle Ret. Inc	TLRIX	0.37% (77)	0.00%	0.50%	
Nuveen Lifecycle 2010 Fund	TCTIX	0.37% (53)	0.00%	0.44%	
Nuveen Lifecycle 2015 Fund	TCNIX	0.38% (67)	0.00%	0.50%	
Nuveen Lifecycle 2020 Fund	TCWIX	0.39% (75)	0.00%	0.53%	
Nuveen Lifecycle 2025 Fund	TCYIX	0.40% (69)	0.00%	0.52%	
Nuveen Lifecycle 2030 Fund	TCRIX	0.41% (67)	0.00%	0.52%	
Nuveen Lifecycle 2035 Fund	TCIIX	0.42% (65)	0.00%	0.53%	
Nuveen Lifecycle 2040 Fund	TCOIX	0.43% (69)	0.00%	0.53%	
Nuveen Lifecycle 2045 Fund	TTFIX	0.44% (65)	0.00%	0.53%	
Nuveen Lifecycle 2050 Fund	TFTIX	0.45% <sub>(61)</sub>	0.00%	0.53%	
Nuveen Lifecycle 2055 Fund	TTRIX	0.45% <sub>(61)</sub>	0.00%	0.53%	
Nuveen Lifecycle 2060 Fund	TLXNX	0.45% (66)	0.00%	0.55%	
Nuveen Lifecycle 2065 Fund	TSFTX	0.45%	0.00%	-	

Fees for Stable Value funds are supplied by the manager. Fee information is provided by the recordkeeper. This data is not audited by Callan.

\* A higher peer group ranking is more favorable.

\*\* The peer group median is for the total annual operating expense ratio. Funds in the peer group may or may not contain revenue sharing.

## **Plan Investment Fees**

### As of December 31, 2024

		Total Annual Operating Expense Ratio	Revenue	Callan Peer Group
Asset Class and Strategy	Ticker/Vehicle	(Peer Ranking*)	Sharing %	Median**
<b>U.S. Equity Large Cap U.S. Equity</b> Vanguard Institutional Index	VINIX	0.04% (99)	0.00%	0.64%
<b>Small/Mid Cap U.S. Equity</b> JPMorgan SMID Cap Equity R6	WOOSX	0.59% (84)	0.00%	0.85%
<b>Non-U.S. Equity</b> Vanguard Total Int'l Stock Adm	VTIAX	0.09% (99)	0.00%	0.84%
<b>Fixed Income</b> Vanguard Total Bond Index Adm Baird Core Plus Bond Instl	VBTLX BCOIX	0.05% (99) 0.30% (92)	0.00% 0.00%	0.43% 0.46%
<b>Capital Preservation</b> Galliard Stable Value C Vanguard Treasury MM Inv	CIT VUSXX	0.37% <sub>(73)</sub> 0.09% <sub>(95)</sub>	0.00% 0.00%	0.40% 0.15%
<b>Sector Funds</b> Cohen & Steers Realty Shares	CSRSX	0.88% (42)	0.30%	0.81%

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