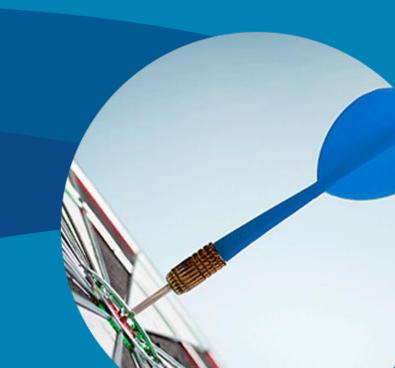


# North Dakota Teachers Fund for Retirement Actuarial Valuation as of July 1, 2025

October 30, 2025
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## Today

- FY 2025 Experience and Key July 1, 2025
   Results
- Looking Forward Plan Outlook



### Stability of Recent Results

- Projected year of full funding
  - 2043 in 2024 Valuation
  - 2042 in 2025 Valuation
  - On track to meet Retirement Board Funding Objectives
- New assumptions and methods adopted by the Board in April 2025, first effective with this valuation
  - 7.15% return assumption
  - Small adjustments to the salary increase and demographic assumptions
  - Increased liability by \$44 million and increased ADC by 0.11%



### Key Factors in FY 2025 Experience

#### Asset experience

- Fair value return 11.2%
- Actuarial (smoothed) value return 8.4%
- Compares to 7.25% assumption
- Biggest impact item
- Positively impacts funded ratio, UAAL, ADC, funding period
  - Basically everything
- Net cash flow
  - FY 2024: -2.1%
  - FY 2025: -2.0%



### Key Factors in FY 2025 Experience

#### Salary experience

- increased less than expected
  - both individual salary and total payroll
- Impacts different key metrics differently

### Active membership growth

Counts increased from 11,945 to 12,012



## **Key Census Information**

		July 1, 2025		 July 1, 2024	
a.	Actives				
	i. Total Active Count		12,012	11,945	
	ii. Total Annual Compensation	\$	849,841,395	\$ 831,008,910	
	iii. Average Projected Compensation		70,749	69,570	
	iv. Average Age		41.6	41.3	
	v. Average Service		11.6	11.3	
b.	Terminated Members Still Entitled to Benefits		4,262	4,025	
C.	Retirees and Beneficiaries				
	i. Total Annuitant Count		9,664	9,693	
	ii. Total Monthly Benefits	\$	22,630,622	\$ 22,405,149	
	iii. Average Monthly Benefit		2,342	2,311	
d.	Total Members Included in Valuation		25,938	25,663	



## Key Results – Static \$ in billions

Improvement slightly more than expected

	7/1/2025		7/:	1/2024
Actuarial Accrued Liability	\$	4.93	\$	4.76
Actuarial Value of Assets (AVA)		3.62		3.41
Unfunded Liability (AVA-basis)		1.31		1.35
Funded Ratio (AVA-basis)		73.4%		71.6%
Actuarial Accrued Liability	\$	4.93	\$	4.76
Fair Value of Assets (FVA)	·	3.65	·	3.35
Unfunded Liability (FVA-basis)		1.28		1.41
Funded Ratio (FVA-basis)		74.1%		70.4%



## Key Results – Forward Looking % of pay

Payroll/population growth means we're still on track for funding objectives

	7/1/2025	7/1/2024
Actuarially Determined Contribution (ADC)	23.85%	24.21%
Employee Contribution Rate	<u>11.75</u> %	<u>11.75</u> %
Net Employer ADC	12.10%	12.46%
Actual Employer Contribution Rate	12.75%	12.75%
Contribution Shortfall/(Surplus)	-0.65%	-0.29%
Funding Period	17 years	19 years



### **LOOKING FORWARD**



## If All Goes As Planned Long-term slightly improved from last year

#### Deterministic Projection of the Unfunded Liability \$ in Millions

As of	Payroll	Contribution as % of	Normal Cost and Admin	Net Amortization	UAAL		Net Principal Contribution	Funding
July 1,	For Next FY	Payroll	as % of Payroll	[c - d] * b	BOY	Interest	e - g	Period
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
2025	\$895	24.50%	12.53%	\$107	\$1,309	\$90	\$17	17
2026	924	24.50%	12.53%	111	1,292	88	22	16
2027	954	24.50%	12.53%	114	1,270	87	27	15
2028	985	24.50%	12.53%	118	1,242	85	33	14
2029	1,017	24.50%	12.52%	122	1,209	82	40	13
2030	1,050	24.50%	12.52%	126	1,170	79	47	12
2031	1,084	24.50%	12.52%	130	1,123	76	54	11
2032	1,119	24.50%	12.53%	134	1,069	72	62	10
2033	1,156	24.50%	12.53%	138	1,007	67	71	9
2034	1,193	24.50%	12.53%	143	935	62	81	8
2035	1,232	24.50%	12.52%	148	854	56	92	7
2036	1,272	24.50%	12.52%	152	763	49	103	6
2037	1,313	24.50%	12.52%	157	660	42	116	5
2038	1,356	24.50%	12.52%	162	544	33	129	4
2039	1,400	24.50%	12.52%	168	415	24	144	3
2040	1,445	24.50%	12.52%	173	271	13	160	2
2041	1,492	24.50%	12.52%	179	111	2	177	1
2042	1,541	15.50%	12.52%	46	(66)	(6)	52	-
2043	1,591	15.50%	12.52%	47	(119)	(10)	58	-
2044	1,643	15.50%	12.51%	49	(176)	(14)	63	-

Assumes
Actuarial Value
of Assets earns
7.15% and all
assumptions
are met



## **Short Term Sensitivity Analysis**

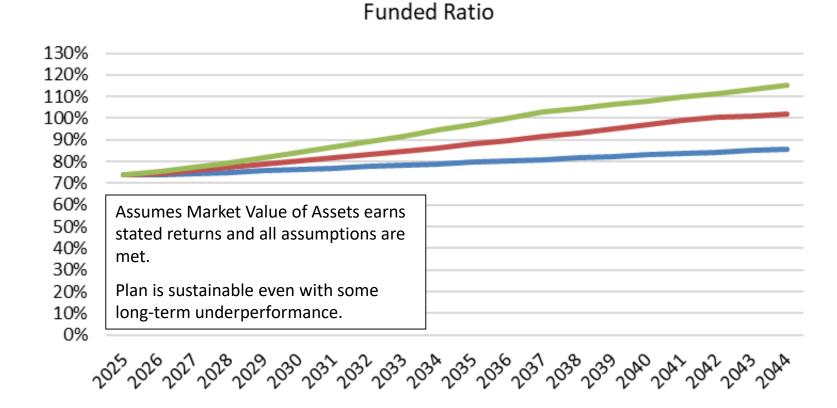
FY 2026 Return	24%	16%	7.15%	0%	-7.15	-16%	-24%
Employer ADC	11.00%	11.50%	12.05%	12.50%	12.94%	13.50%	14.00%

- There is an expectation that with a 0% return in FY 2026, the ADC would continue to be less than the current statutory contribution rate of 12.75%
  - Returns less than 0% may lead to an ADC in excess of 12.75%



### Long Term Projections

6.15% Return



\_\_\_\_\_7.15% Return



### Summary

- TFFR statutory contributions still meeting Board funding policy objectives
  - Full funding expected in 17 years
- Slim contribution margins, but recent stability and improvement is encouraging
- In addition to the usual (investment return), will be keeping close eye on active population (counts and payroll growth) to make sure reliance on future payroll remains reasonable



### **Disclaimers**

- This presentation is intended to be used in conjunction with the actuarial valuation report issued on October 20, 2025. This presentation should not be relied on for any purpose other than the purpose described in the valuation report.
- This presentation shall not be construed to provide tax advice, legal advice or investment advice.

