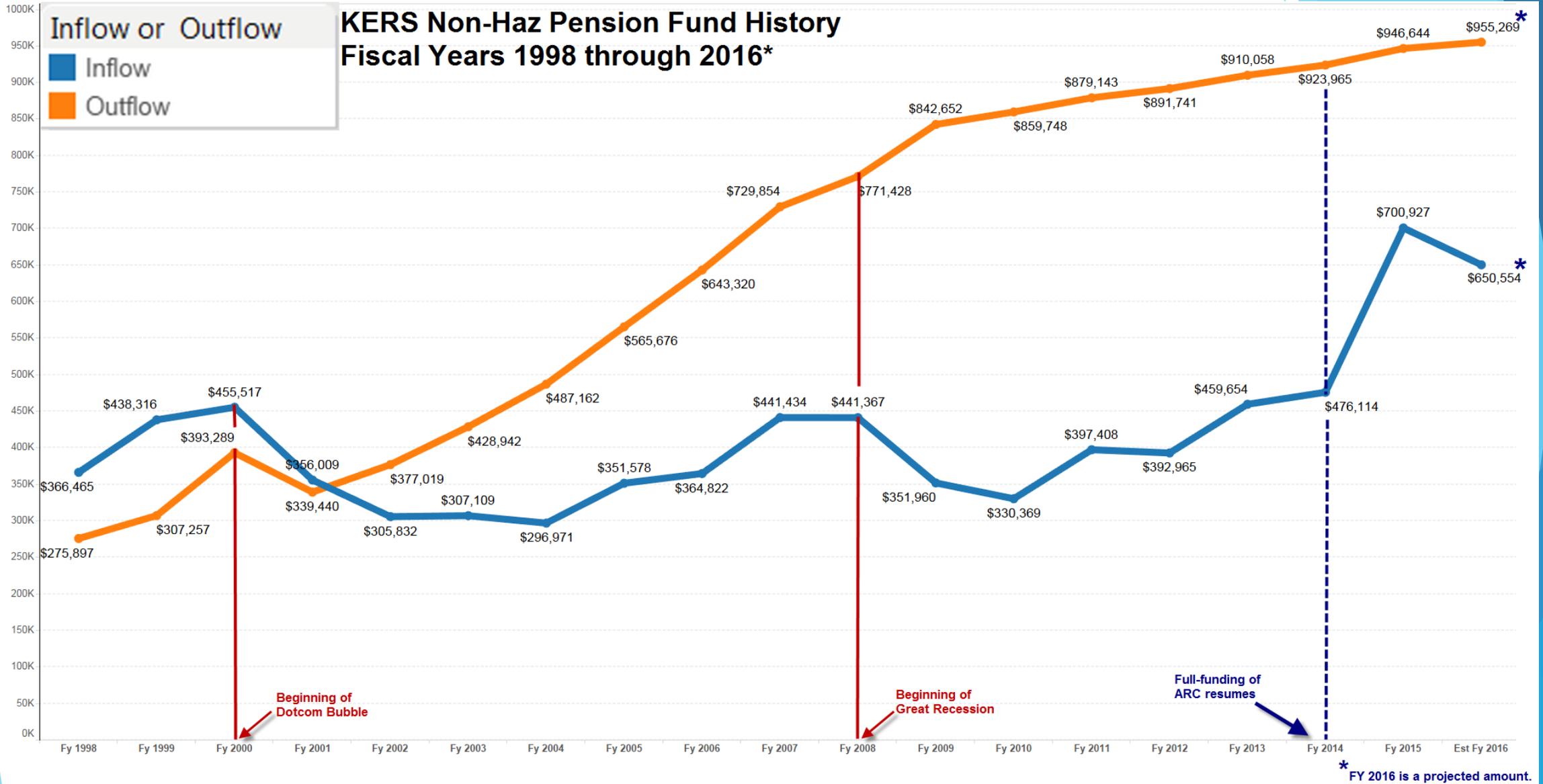




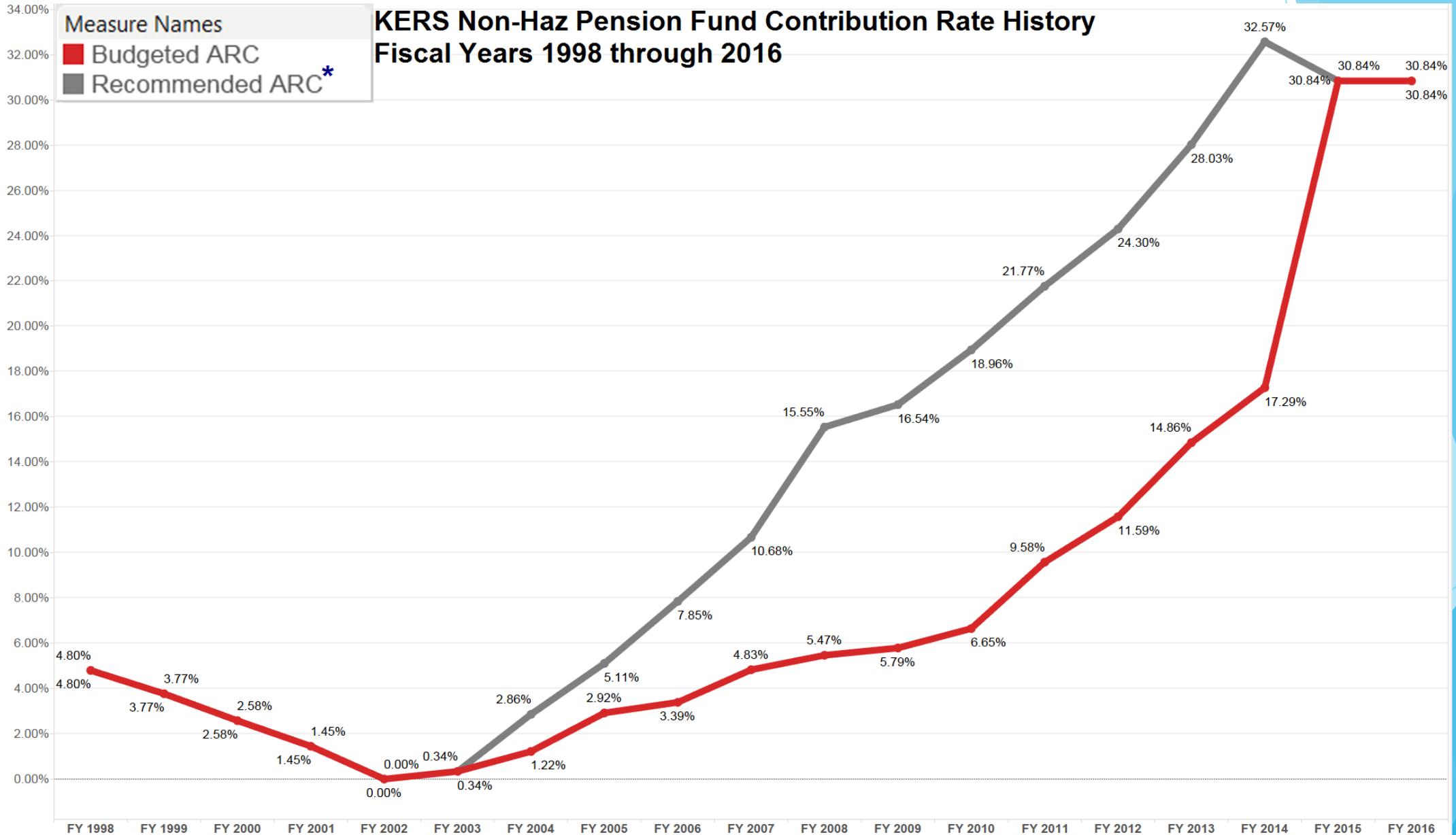
KRS Inflows vs Outflows

KERS Non-Hazardous Inflows vs Outflows

**KERS Non-Haz Pension Fund History
Fiscal Years 1998 through 2016***



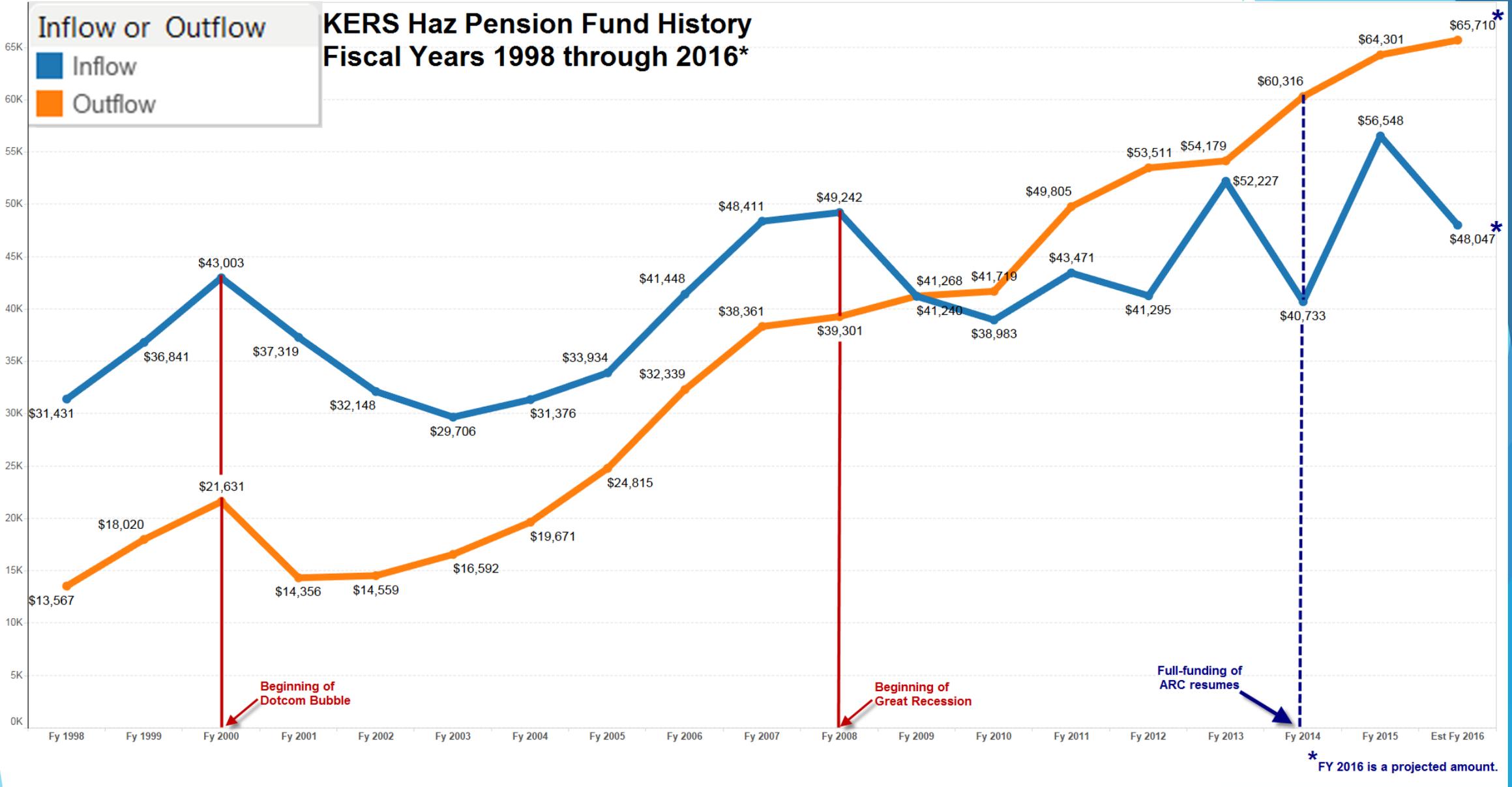
KERS Non-Hazardous Contribution Rate History



* Where the Budgeted ARC equals the Recommended ARC, only a red line is shown.

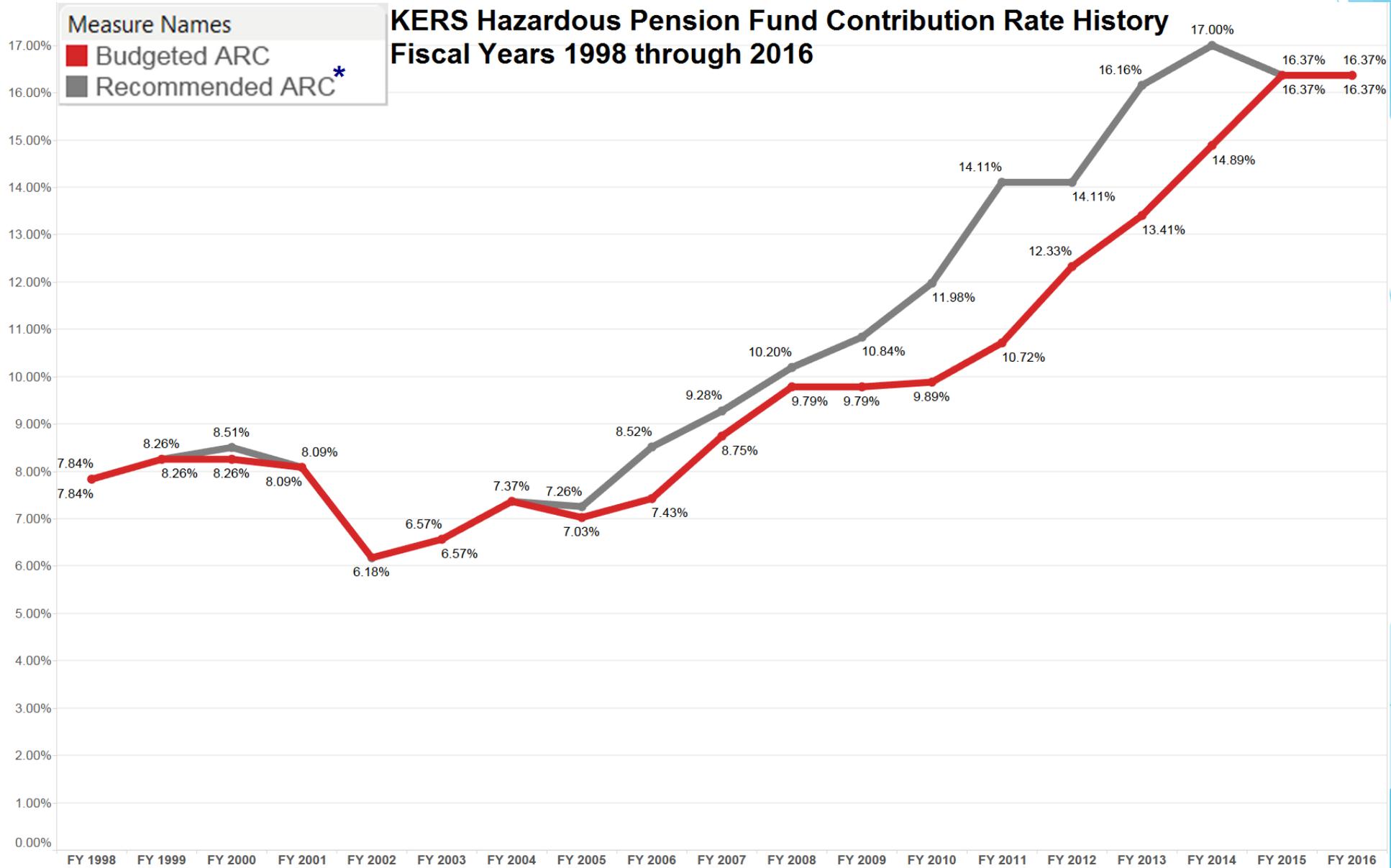
KERS Hazardous Inflows vs Outflows

**KERS Haz Pension Fund History
Fiscal Years 1998 through 2016***



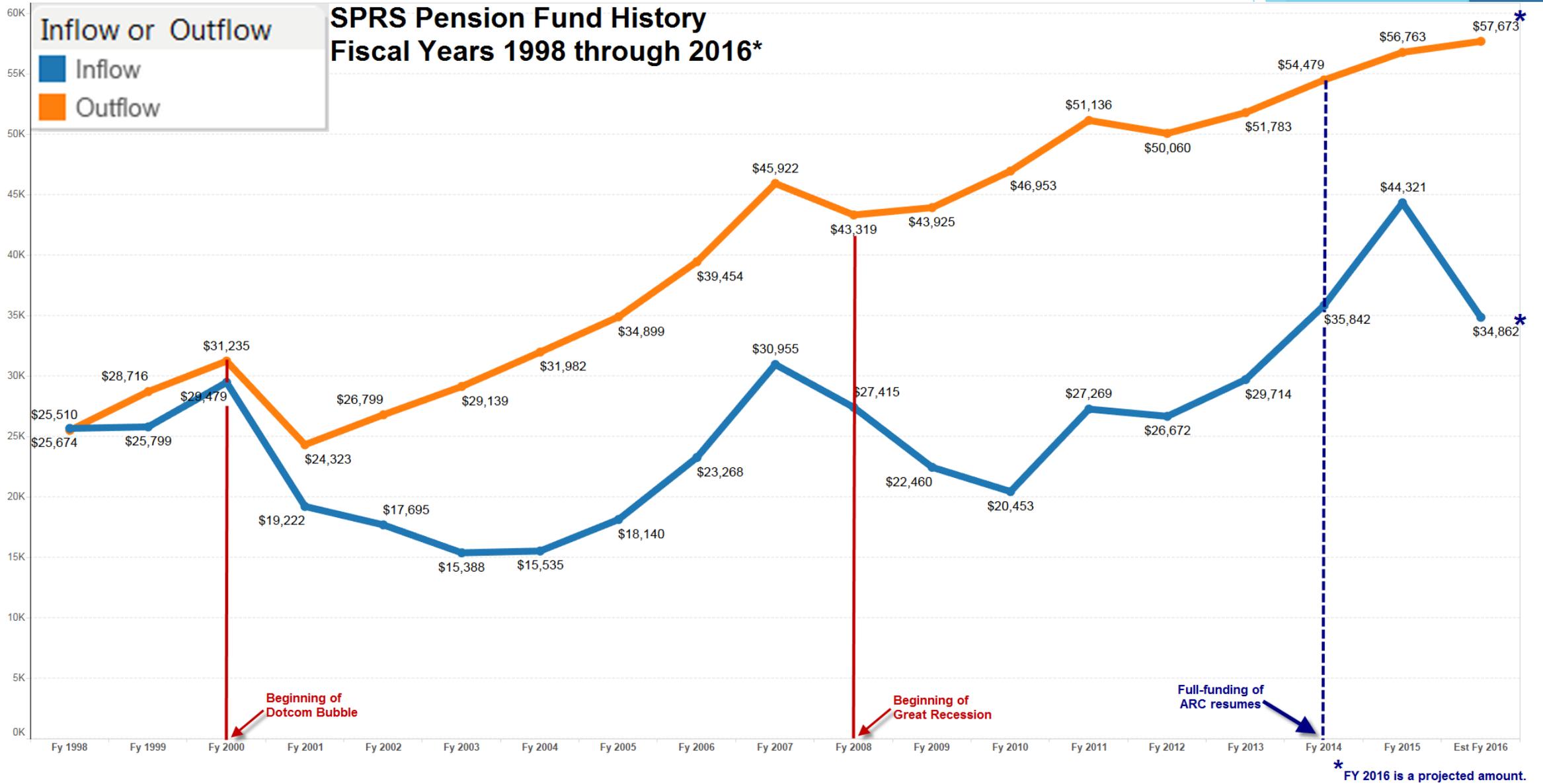
* FY 2016 is a projected amount.

KERS Hazardous Contribution Rate History

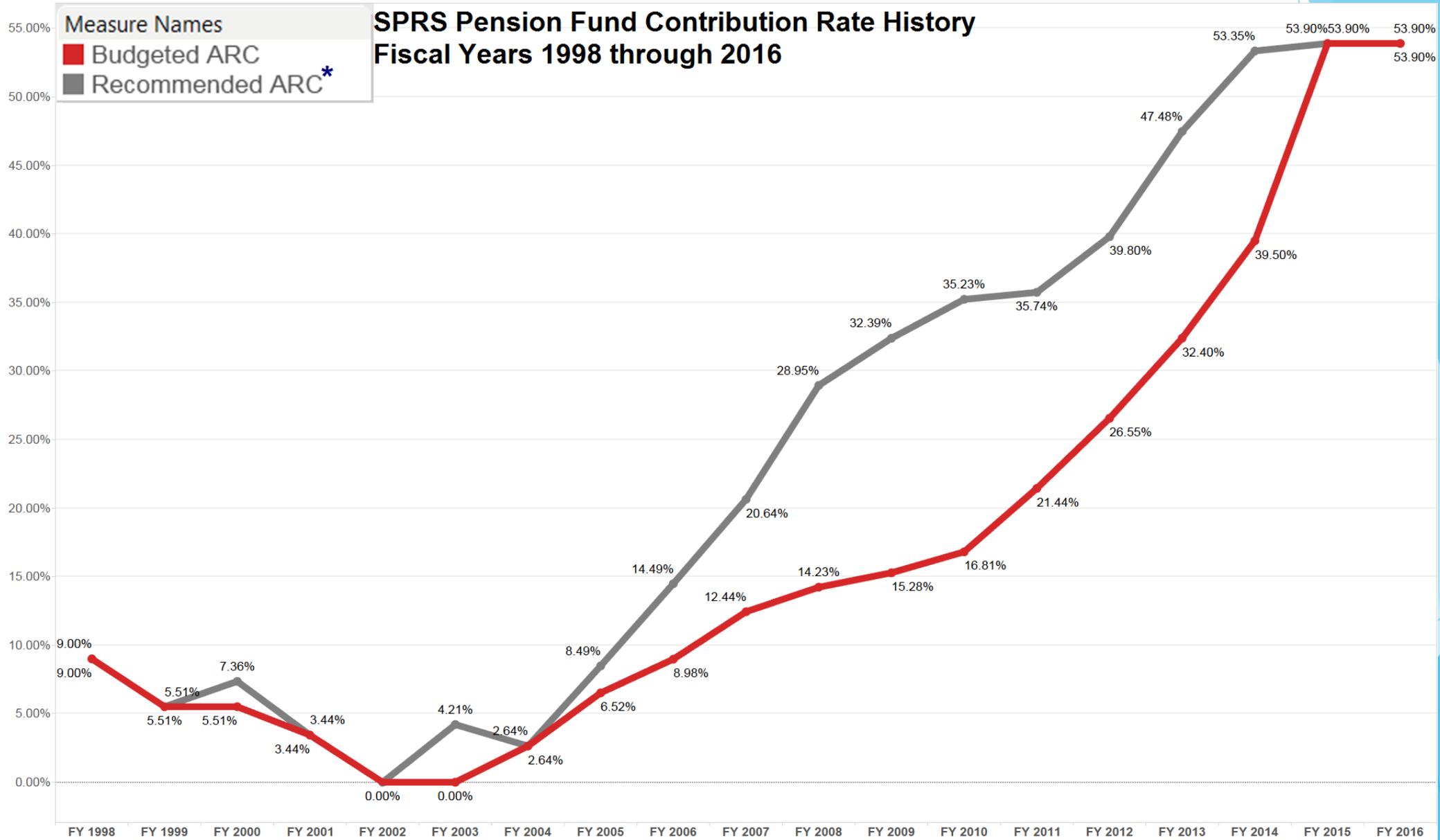


* Where the Budgeted ARC equals the Recommended ARC, only a red line is shown.

SPRS Inflows vs Outflows

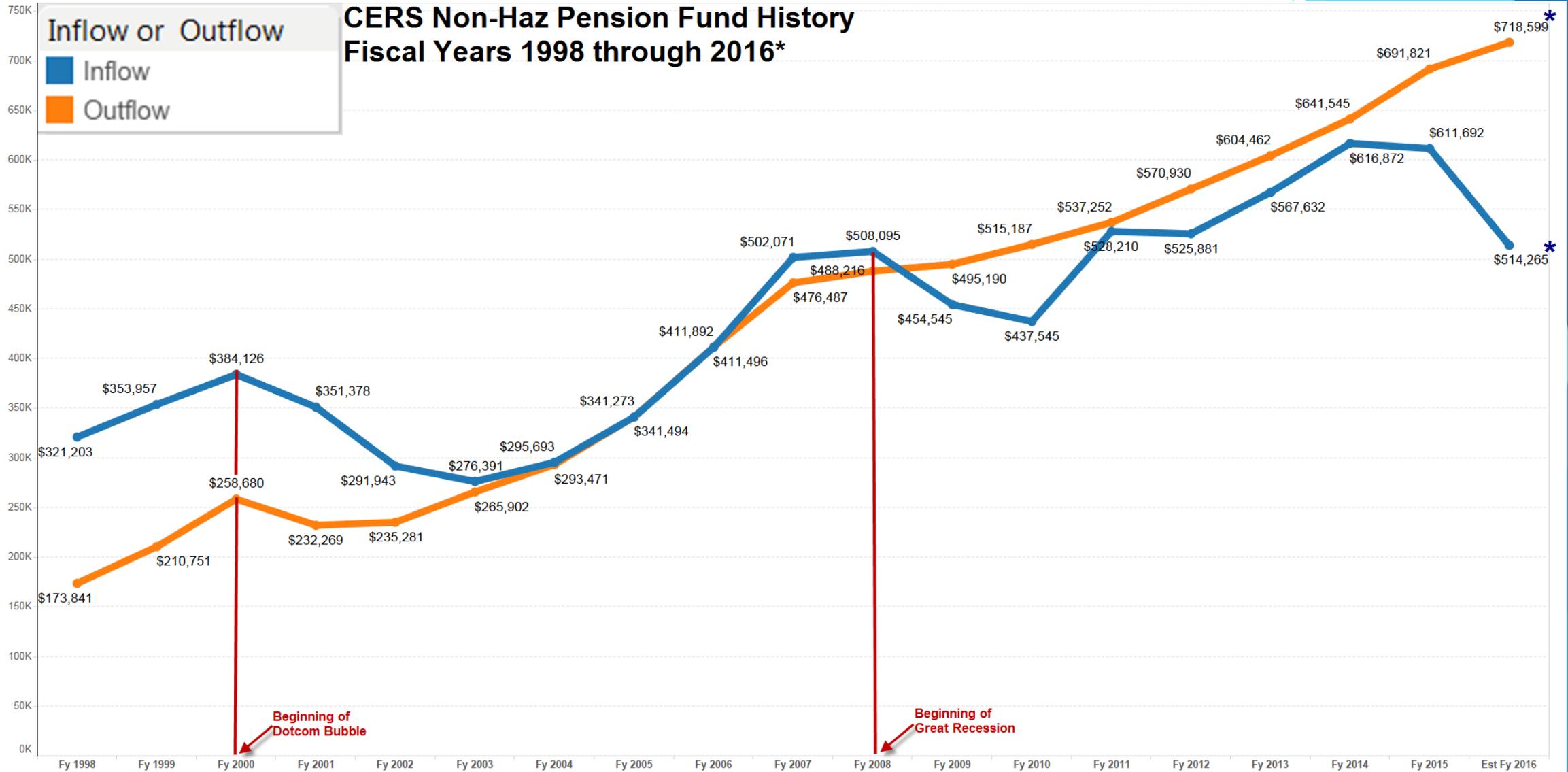


SPRS Contribution Rate History



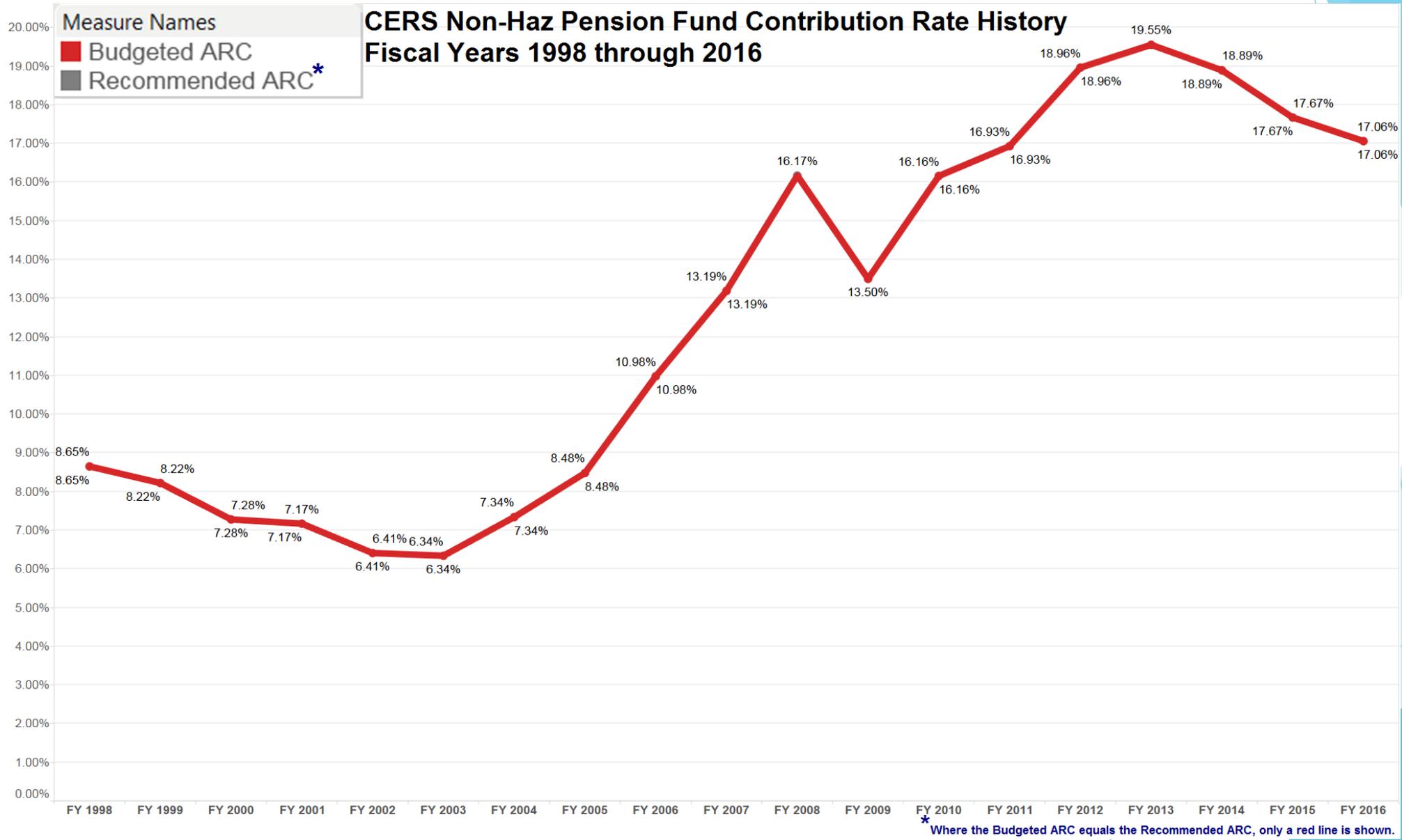
* Where the Budgeted ARC equals the Recommended ARC, only a red line is shown.

CERS Non-Hazardous Inflows vs Outflows

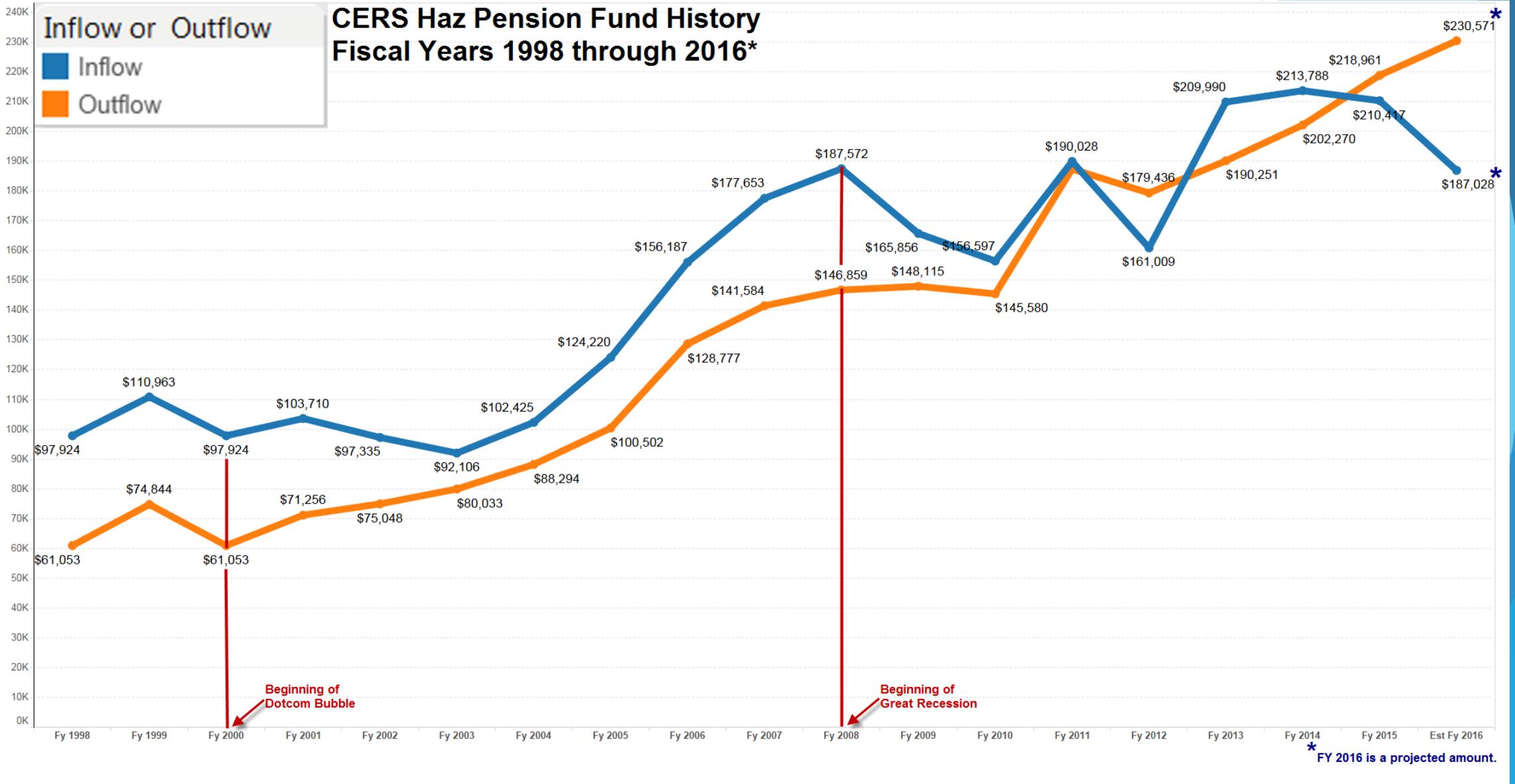


* FY 2016 is a projected amount.

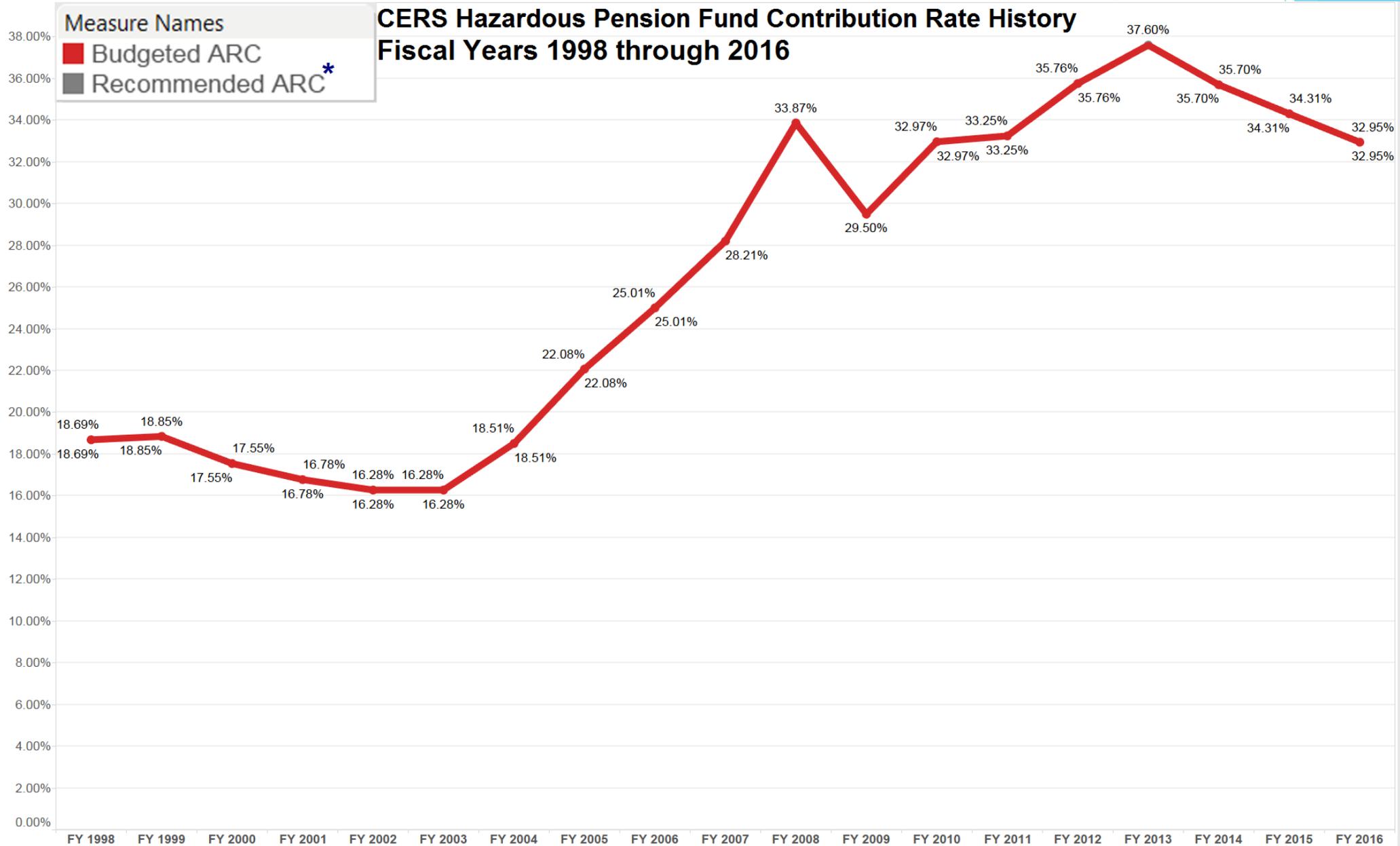
CERS Non-Hazardous Contribution Rate History



CERS Hazardous Inflows vs Outflows



CERS Hazardous Contribution Rate History



* Where the Budgeted ARC equals the Recommended ARC, only a red line is shown.

KERS Historical Asset Balances

Kentucky Employees Retirement System (KERS)

Year	KERS Nonhazardous	KERS Hazardous
June 30, 1998	5,053,000	235,074
June 30, 1999	5,841,831	278,898
June 30, 2000	6,017,454	301,919
June 30, 2001	5,484,563	305,545
June 30, 2002	5,005,191	301,799
June 30, 2003	4,929,319	320,513
June 30, 2004	5,258,995	366,568
June 30, 2005	5,362,631	398,308
June 30, 2006	5,440,133	437,060
June 30, 2007	5,773,157	510,775
June 30, 2008	5,056,869	484,438
June 30, 2009	2,913,423	388,951
June 30, 2010	3,504,502	443,606
June 30, 2011	3,544,242	511,085
June 30, 2012	2,977,069	476,589
June 30, 2013	2,817,140	514,592
June 30, 2014	2,578,290	561,484
June 30, 2015	2,327,782	552,468
March 31, 2016	2,040,074	528,023

2017-2018 Budget Impact: KERS Nonhazardous Pension Cash Flow

2016 Inflows	\$481,004,311	Employer contributions @ 30.84% on \$1.56 billion payroll
	100,424,000	Employee contributions (same as in FY 2015)
	\$0	Net investment income @ 0% return for 2016
	\$581,428,311	Total inflows

2016 Outflows	\$932,963,700	Benefits (with 3% increase over 2015)
	\$13,552,000	Refunds (same as in 2015)
	\$10,474,000	Administrative expenses (same as in 2015)
	\$929,816,000	Total Outflows

\$929,816,000

-581,428,311

\$348,387,689

Negative cash flow for KERS Nonhazardous Pension in 2016

2017-2018 Budget Impact: KERS Nonhazardous Pension Cash Flow

2017 Inflows	\$633,890,065	Employer contributions @ 40.24% on \$1.58 billion payroll - up 1%
	\$101,428,240	Employee contributions (up 1% from FY 2015)
	<u>\$135,000,000</u>	Net investment income @ 6.75% return on \$2.0 billion for 2016
	\$870,318,305	
	<u>\$58,193,000</u>	Additional funds budgeted in HB 303
	\$928,511,305	Total Inflows

2017 Outflows	\$960,952,611	Benefits (with 3% increase over 2016)
	\$13,552,000	Refunds (same as in 2016)
	<u>\$10,474,000</u>	Administrative expenses (same as in 2016)
	\$984,978,611	Total Outflows

\$984,978,611

-928,511,305

\$56,467,306

Negative cash flow for KERS Nonhazardous Pension in 2017

2017-2018 Budget Impact: KERS Nonhazardous Pension Cash Flow

2018 Inflows	\$653,275,381	Employer contributions @ 41.06% on \$1.59 billion payroll - up 1%
	\$102,442,522	Employee contributions (up 1% from FY 2016)
	<u>\$132,975,000</u>	Net investment income @ 6.75% return on \$1.944 billion for 2017
	\$888,692,903	
	<u>\$67,574,300</u>	Additional funds budgeted in HB 303
	\$956,267,203	Total Inflows

2018 Outflows	\$989,781,189	Benefits (with 3% increase over 2017)
	\$13,552,000	Refunds (same as in 2017)
	<u>\$10,474,000</u>	Administrative expenses (same as in 2017)
	\$1,013,807,189	Total Outflows

\$1,013,807,189

-956,267,203

\$57,539,986 Negative cash flow for KERS Nonhazardous Pension in 2018