

14th Annual Retirement Policy Conference

Progress Amid Turbulence: Building Towards a Secure Retirement

February 28, 2023



Panel | Pensions: A Vital Economic Engine

MODERATOR PANELISTS

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Pensions: a Vital Economic Engine

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Pensionomics 2023: Why This Report

- NIRS updates every two years its *Pensionomics* analysis that measures the economic "ripple effect" of payments from defined benefit (DB) pension plans.
- Retirees with a reliable pension can maintain spending throughout their retirement years, regardless of economic ups and downs, acting as an economic stabilizer.
- This report quantifies the economic impact of pension spending on the U.S. economy that will be constrained as the population ages.

Key Findings

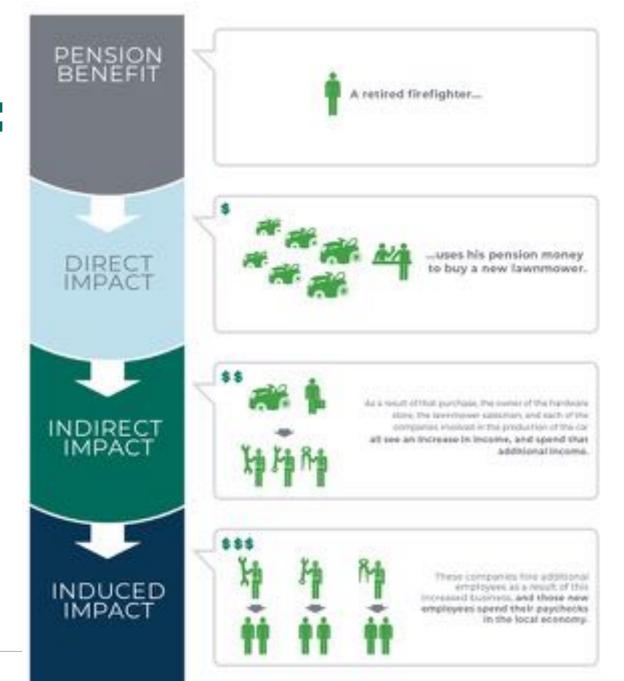
- In 2020, expenditures from public and private pension benefits supported:
 - \$1.3 trillion in economic output nationwide
 - 6.8 million jobs that paid \$422.2 billion in labor income
 - **\$738.5 billion** in value added nationally
 - \$157.7 billion in federal, state, and local tax revenue

Pension Plans' Economic Impact

- Pension plans can support economic activity through several channels, for example...
 - Benefit channel retirees' expenditures create incomes for others in the economy.
 - Investment channel the investment of pension assets provides capital to businesses to develop products, invest in new technologies, and create jobs.
- This study focuses on the benefit channel.

The Multiplier Effect:

How spending ripples through the economy, supporting jobs and incomes in the process



Public and Private Sector Pension Benefits, 2020

Table 1: Public and Private Sector Pension Benefits, 2020

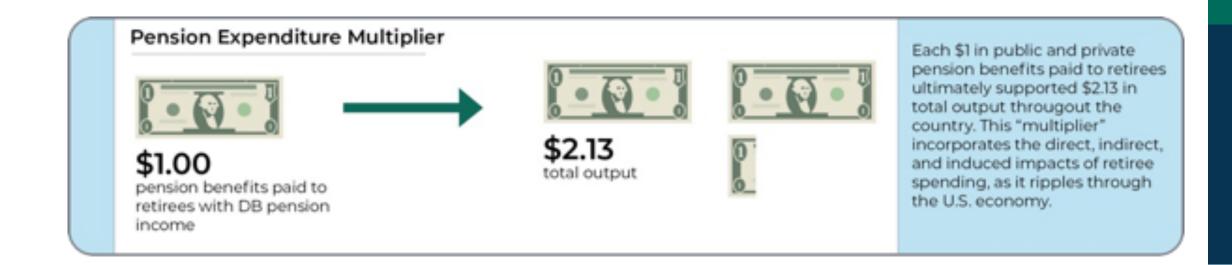
			Private	Private Sector	
	State and Local	Federal	Single Employer Plans	Multiemployer Plans	Total*
Beneficiaries	11.5 million	2.7 million	6.4 million	4.0 million	24.6 millon
Average Benefit	\$29,132	\$33,125	\$21,813	\$11,934	\$24,898
Total Benefits	\$334.8 billion	\$90.3 billion	\$140.2 billion	\$47.2 billion	\$612.6 billion

Note: Author's analysis of the Annual Survey of Public Pensions, US OFM, U.S. Census Bureau, Pension Benefit Guaranty Corporation, and IRS Form \$500 data.

^{*}Totals may not add up exactly due to rounding.

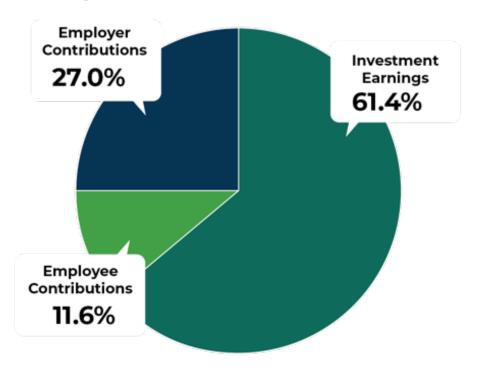
[&]quot;Total average benefit represents a weighted average of public and private sector benefits.

Pension Benefits More Than Double Their Impact

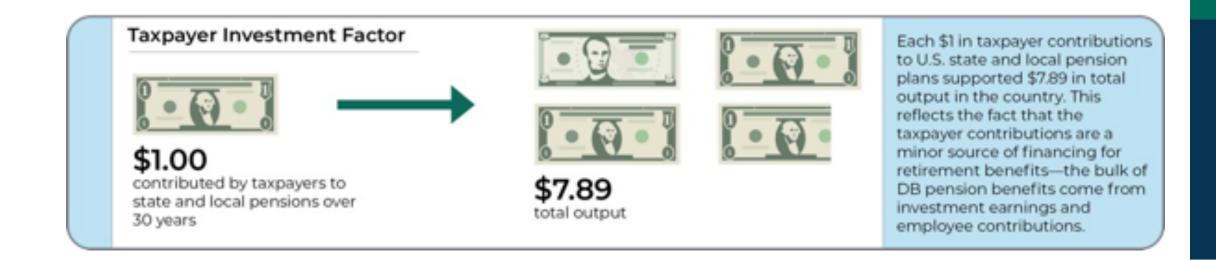


Investment Earnings Accounted for More Than 3/5 of Public Pension Revenues

Figure 1: Aggregate State and Local Pension Contributions by Source, 1993-2020



Taxpayer Dollars Generate a Significant Return on Investment



DB Pensions Support 6.8 Million American Jobs

Table 2: DB Pensions Support 6.8 Million American Jobs That Pay \$422.2 Billion in Labor Income

		Employment	Labor Income
Communicated Plans	State and Local Government	3,736,191	\$232,229,721,639
Governmental Plans	Federal Government	994,015	\$61,784,827,559
	Multiemployer	519,379	\$32,282,920,670
Private Sector Plans	Single Employer	1,542,916	\$95,902,741,502
Total Impact	All Plans	6,792,502	\$422,200,211,371

[&]quot;Totals may not add up exactly due to rounding

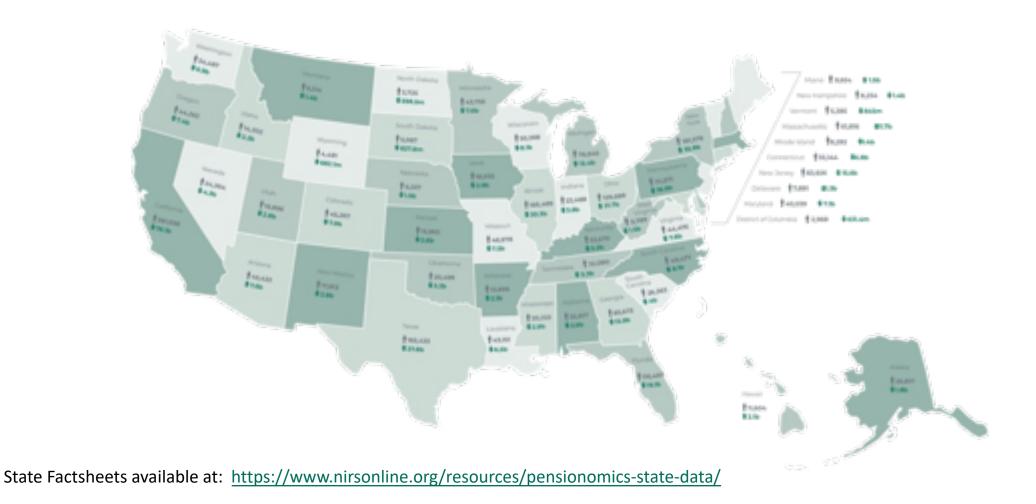
DB Pensions Support \$1.3 Trillion in Total Economic Activity

Table 3: DB Pensions Support \$1.3 Trillion in Economic Activity and \$738.5 Billion in Value Added

		Output	Value Added
Covernmental Plans	State and Local Government	\$718,646,463,523	\$406,224,100,829
Governmental Plans	Federal Government	\$191,196,232,383	\$108,076,114,646
P. L	Multiemployer	\$99,901,109,159	\$56,470,379,108
Private Sector Plans	Single Employer	\$296,775,819,806	\$167,756,326,189
Total Impact	All Plans	\$1,306,519,624,872	\$738,526,920,772

"Totals may not add up exactly due to rounding.

State-By-State Pension Impacts



National Institute on Retirement Security

Fortifying Main Street: Why This Research

- Previous NIRS research (*Pensionomics*) has focused on the downstream economic impact of the spending of pension benefits. This research focuses on the raw dollar amounts of pension benefits at the county level.
- New data on Gross Domestic Product (GDP) by county only became available in the past few years, enabling new areas of research.
- Previous research by other organizations had indicated that rural areas received a greater relative economic impact from the flow of pension benefit dollars than cities and other metropolitan areas.
- Cities likely receive a greater amount of pension benefit dollars in absolute terms, but these are dwarfed by the size of the economy in large cities.

States Included in This Research

- 2020 edition: CA, IA, ID, IL, KS, ME, MN, MO, MS, ND, NM, NV, NY, PA, SC, SD, TX, WI, WY
- 2022 additional states: AL, AR, CO, FL, GA, HI, IN, KY, LA, MD, MI, MT, NE, NH, OH, OK, OR, RI, TN, UT, VA, VT, WA, WV
- States not included in this research: AK, AZ, CT, DE, MA, NC, NJ

Key Findings

- Public pension benefit dollars represent between one and three percent of GDP on average in the 2,922 counties studied.
- Rural counties have the highest percentages of their populations receiving public pension benefits.
- Small town counties experience a greater relative impact in terms of both GDP and total personal income from pension benefit dollars than rural or metropolitan counties.

Key Findings, Continued

- Rural counties experience a greater relative impact in terms of total personal income than metropolitan counties.
- Counties that contain state capitals are outliers from other metropolitan counties, likely because there is a greater density of public employees in these counties, most of whom remain in these counties in retirement.
- On average, rural counties have lost population while small town counties and metropolitan counties have gained population in the period between 2000 and 2018.

Summary of County Data Findings

Table 1. Different County Types

Type of County	Number of Counties	Average Population Density	% of Population Receiving	Benefits as Share of GDP	Benefits as Share of Personal Income
Capital	45	544.21	2.60%	1.29%	1,64%
Independent City	9	1350.97	N/A	0.67%	0.75%
Metropolitan	822	281.44	1.87%	1.13%	1.15%
Micropolitan	1365	28.59	2.58%	1.86%	1.79%
Rural	681	5.01	3.02%	1.13%	1.76%
Total	2922	103.49	2.02%	1.20%	1.25%

California County Type



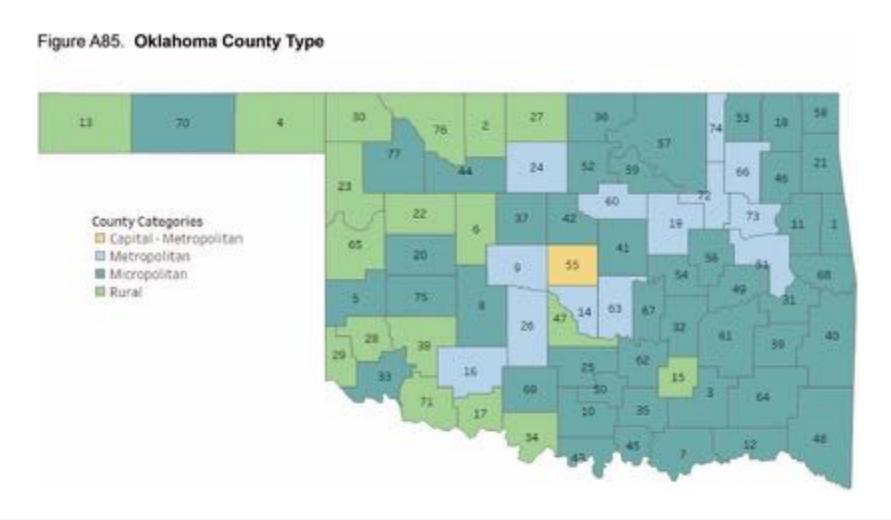
California Percent of GDP



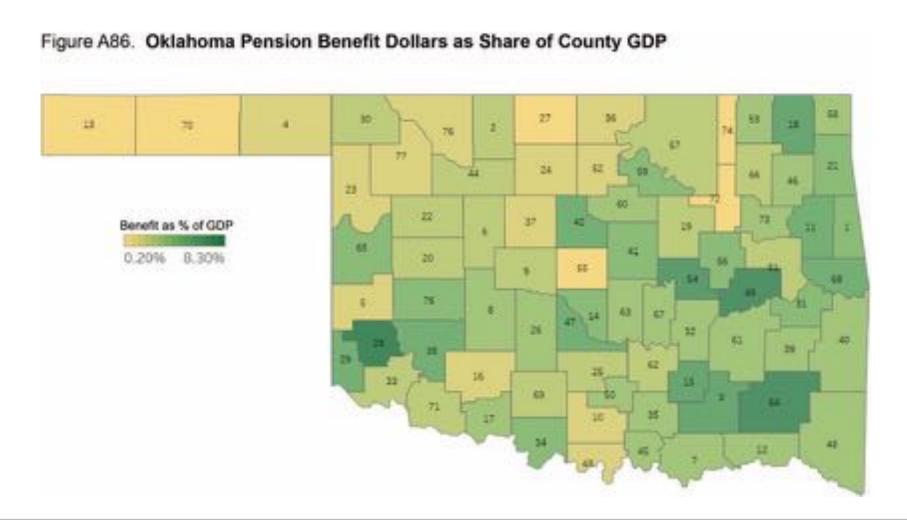
California Percent of Total Personal Income (TPI)



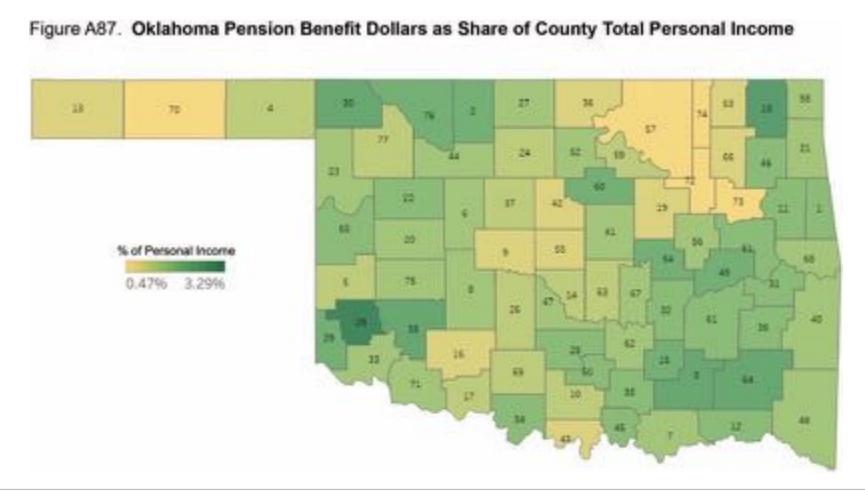
Oklahoma County Type



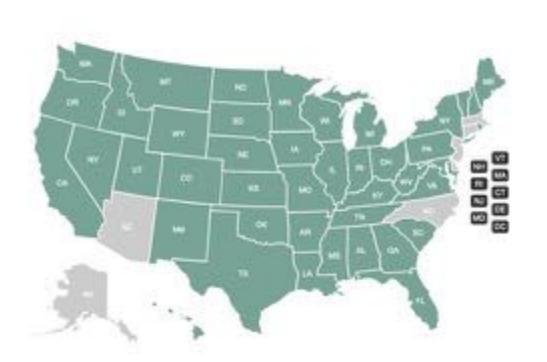
Oklahoma Percent of GDP



Oklahoma Percent of Total Personal Income (TPI)



Online Map with State Fact Sheets









https://www.nirsonline.org/resources/fortifying-main-street/

CalSTRS Value chain

	UPSTREAM	MIDSTREAM	DOWNSTREAM	
ACTIVITIES	Collect contributions from stakeholders (Members, employers and the State of California)	Administer the fund and the enterprise for a financially sound retirement system Manage investments	Pay benefits to members and their beneficiaries	
SUPPORT ACTIVITIES		Implement the CalSTRS Funding Plan and increase fund value Promote financial security through member retirement education Influence change in public policies and corporate practices to create long-term value		
VALUE ADDED	CalSTRS pensions: • Help recruit and retain educators • Offer a cost-effective, guaranteed benefit	CalSTRS offers employees competitive pay, modern facilities, and career development and learning opportunities. The State of California offers employees a benefits package that includes a CalPERS pension, medical benefits (including dental and vision insurance) and health insurance in retirement.	Paid benefits: • Provide members a lifetime income with optional benefits for survivors • Support communities and the economy through member spending	
FOUNDATION	State and federal law • Sustainability-focused policies and practices • Employees and human capital management • Stakeholder engagement • Information security			

CalSTRS' impact on California's economy

CalSTRS contributes to California's economy through the benefits it pays to its members, who may then spend that money in the communities in which they live. CalSTRS paid an estimated \$13.4 billion in benefits to 237,430 retirees living in California during fiscal year 2021–22. This chart and map show the number of retired members living in each county and a range of the amount of benefits paid to those members, as well as the locations of the CalSTRS member service centers.

Defined Benefit Program

Retirees who live in California-characteristics by county

County	Marrier of milesses	Estimated benefits paid in FY 2021-32 ¹
Alaneste	3,739	\$456,758,432
Appe	14	804,632
Arrador	454	
Butter	2,240	£10,736,040
Dátem	910	29,594,760
College	129	5,9331,340
Covere Create	2,725	114,005,050
Del Norte	266	12,426,456
S) Duradis	2,383	126 851 884
Franc-	6,704	363344512
Date	136	6,643,872
runbulch	1,443	61,662,276
INDAME:	979	
lyc	162	7,010,328
Nove -	4,535	259,202,460
Ningi	816	34,424,544
LMC	409	22,415,000
Laturet	234	11.111.256
LOG RASSING	84,503	2,636,417,260
Madern	1.436	14,097,000
Mato	2,355	
Maripesa	213	12,301,380
Mesticine	1.132	51,347,530
Morced	1,629	93.576.276
Mindoo	92	3,389,600
Moso	202	16,253,526
Monorey	3.315	181,158,120
Naça	1,422	24,026,024
Severin	1.837	79.067.000

PARTY NAME OF TAXABLE PARTY.	PROPERTY.	PRINCIPAL INC.
County	Renteral	Estimated benefits
	retirent	paid in SY 3023-22"
Oracige	21,957	1,418,861,340
Name	4,605	290,493,580
Rumes	307	13,963,620
Burnite	94,031	790,201,864
Sacorents	9,685	503,581,260
San Berrito	300	
Sair Barrantino	30,237	581,493,860
San Diego	22,236	
Sat Francisco	2,974	158,204,904
Set hopen	4,235	236,932,840
San Luis Obiggio	4,438	238,996,864
San Meters	3,777	238,438,704
Senta Barbara	3,307	164,083,418
Santa Clara	9,253	560,509,728
Santa Ona	3,606	157,158,330
Sharts	1,898	45,157,600
Seria	64	3,002,112
Soliene	434	37,296,864
Selans	3,250	148,792,000
Serona	4,600	239,365,800
STANSONS	3,326	195,488,976
Sulfer	790	43,213,280
Tehama	795	38,697,360
Sindy	125	5,134,000
Nature:	3,205	182,261,940
September .	747	35,548,936
Sentials	7.306	421,305,744
No.	1.200	62,236,636
9404	357	17,283,656
Total .	897,499	5.5,427,740,000



The providing benefits has on the one 2002 recently banefits, which also include purchasing power protection payments from the Supplemental Benefit Manner area. Account.

Pension Plans as Long-Term Investors

- U.S. state & local pension plans manage approximately \$5
 trillion dollars in assets across every asset class.
- These plans invest for the long-term and are not subject to the same economic incentives for short-term decision-making that drive other investors.
- What effect does this long-term outlook have on financial markets in the U.S. via the economic impact of pension plan investment activity?

Public Plans Hold 5.5% of U.S. Equities

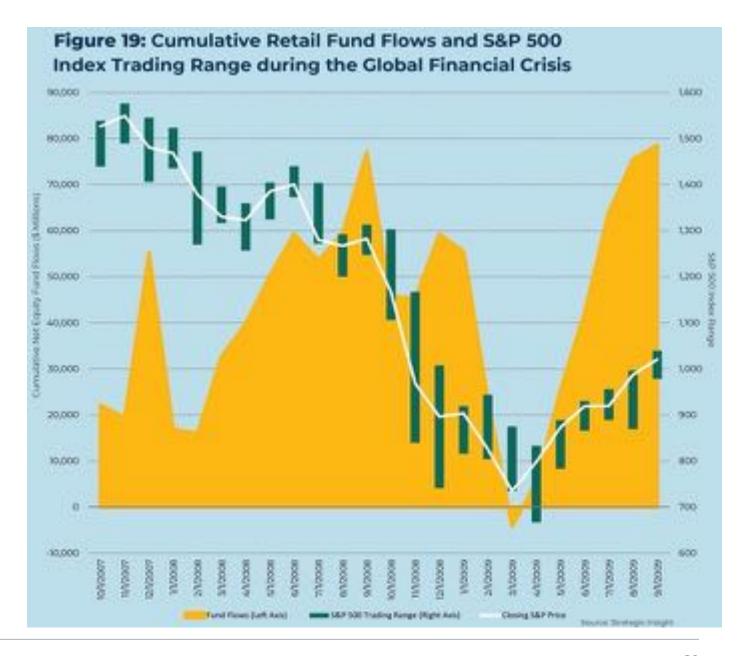


Source: The Federal Reserve - Financial Accounts of the United States

Note: Households include non-profit organizations. Other contains foreign banking offices in the U.S. and funding corporations

Source: SIFMA Insights, "Who Owns Stocks in America"

Fund Flows Show Retail Investors Exhibited Poor Market Timing Global **Financial Crisis**



Public Plans Actively Rebalance Investments

