

# **Long-Term Performance: Asset Classes and AD Growth Models**

Asset Dedication, LLC  
2025

# PPT Summary of Article

- These slides summarize the following article published in the [Retirement Management Journal](#), Vol. 14, Nov. 1, 2025.

## RETIREMENT MANAGEMENT JOURNAL

*Forthcoming in Volume 14, Number 1, 2025*

### U.S. Asset Class Returns Based on Time Horizons, Size, and Style

*By Stephen J. Huxley, PhD, Brent Burns, and Jeremy Fletcher, CFA®*



# Asset Classes

- Research suggests that two of the primary factors that determine a stock's growth are the company size and its price to book ratio
  - High ratio = Growth (a popular stock)
  - Low ratio = Value (not so popular!)
  - [Morningstar](#) divides these factors into three sizes and three “styles” leading to its style box or “US Market Barometer”
  - It tracks changes in each asset class continually during the trading day.

US Market Barometer [Markets >](#)

|       |       |        |       |
|-------|-------|--------|-------|
| +0.12 | +0.12 | -0.14  | Large |
| -0.24 | -0.09 | -0.48  | Mid   |
| -0.21 | -0.16 | +0.08  | Small |
| Value | Core  | Growth |       |

Example: Downloaded  
midday Sept. 16, 2025

# Long-term Performance by Asset Class

- Long-term performance is available from several sources:
  - [Dimensional Fund Advisors](#) (“Returns Web”)
  - [Center for Research in Security Prices](#) (CRSP) – Univ. of Chicago
  - [Kenneth French Data Library](#)
  - [Global Financial Data](#) (Finameon)
  - Others
- These sources were used develop the slides that led to the publication of “[U.S. Asset Class Returns Based on Time Horizons, Size, and Style](#)”

# Asset Class Returns: 1928-2023

**TABLE 1** Average, Worst, and Best Returns for 1-, 5-, 10-, 15-, 20-, and 30-Year Holding Periods, 1928-2023

Asset Classes: Value (V), Core (C), Growth (G), Large-cap, Mid-cap, Small-cap

Compound Annual  
Growth Rates  
(CAGR)

V = Value

C = Core

G = Growth

| 1A: AVERAGE RETURNS      |                |                |                |                |                |                |               |               |               |               |               |               |               |               |               |               |               |               |
|--------------------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
|                          | 1-YEAR         |                |                | 5-YEAR         |                |                | 10-YEAR       |               |               | 15-YEAR       |               |               | 20-YEAR       |               |               | 30-YEAR       |               |               |
|                          | V              | C              | G              | V              | C              | G              | V             | C             | G             | V             | C             | G             | V             | C             | G             | V             | C             | G             |
| LARGE-CAP                | 10.9%          | 9.2%           | 10.5%          | 11.3%          | 9.6%           | 10.3%          | 11.5%         | 10.2%         | 10.3%         | 11.5%         | 10.4%         | 10.3%         | 11.7%         | 10.7%         | 10.4%         | 12.0%         | 11.0%         | 10.6%         |
| MID-CAP                  | 12.7%          | 12.0%          | 10.3%          | 13.3%          | 12.5%          | 10.7%          | 13.9%         | 12.8%         | 10.8%         | 14.4%         | 12.9%         | 10.8%         | 14.8%         | 13.1%         | 10.8%         | 15.2%         | 13.3%         | 10.9%         |
| SMALL-CAP                | 14.3%          | 12.8%          | 8.9%           | 15.3%          | 13.5%          | 9.7%           | 15.7%         | 13.8%         | 9.7%          | 16.0%         | 14.0%         | 9.6%          | 16.4%         | 14.2%         | 9.6%          | 16.6%         | 14.4%         | 9.7%          |
| 1B: SINGLE WORST RETURNS |                |                |                |                |                |                |               |               |               |               |               |               |               |               |               |               |               |               |
| LARGE-CAP                | -55.0%<br>1931 | -63.8%<br>1931 | -36.0%<br>1931 | -14.7%<br>1931 | -22.5%<br>1932 | -9.4%<br>1933  | -6.2%<br>2008 | -5.6%<br>1939 | -0.1%<br>2008 | -1.0%<br>2012 | -1.7%<br>1942 | 1.3%<br>1943  | 0.6%<br>2018  | 1.2%<br>1948  | 2.9%<br>1948  | 6.8%<br>2023  | 6.5%<br>1957  | 7.8%<br>1958  |
| MID-CAP                  | -52.8%<br>1931 | -50.3%<br>1931 | -39.6%<br>1931 | -20.8%<br>1932 | -20.0%<br>1932 | -18.0%<br>1932 | -7.9%<br>1939 | 0.4%<br>1937  | -1.8%<br>1974 | -2.1%<br>1942 | 3.1%<br>1942  | 1.0%<br>1943  | 3.5%<br>1948  | 6.4%<br>1948  | 3.1%<br>1948  | 8.4%<br>1957  | 10.2%<br>1957 | 7.5%<br>1975  |
| SMALL-CAP                | -52.5%<br>1931 | -49.2%<br>1937 | -49.4%<br>1937 | -23.9%<br>1932 | -20.7%<br>1932 | -24.6%<br>1932 | -2.1%<br>1938 | 0.3%<br>1937  | -2.5%<br>1937 | 1.5%<br>1941  | 3.2%<br>1942  | 0.3%<br>1974  | 7.5%<br>1948  | 6.1%<br>1948  | 3.7%<br>1948  | 11.0%<br>1957 | 9.8%<br>1957  | 6.0%<br>2010  |
| 1C: SINGLE BEST RETURNS  |                |                |                |                |                |                |               |               |               |               |               |               |               |               |               |               |               |               |
| LARGE-CAP                | 118.8%<br>1933 | 79.1%<br>1933  | 49.2%<br>1928  | 43.0%<br>1936  | 22.8%<br>1954  | 30.8%<br>1999  | 23.5%<br>1951 | 18.4%<br>1958 | 20.9%<br>1998 | 22.3%<br>1956 | 18.7%<br>1989 | 20.0%<br>1999 | 20.0%<br>1998 | 17.7%<br>1998 | 17.8%<br>1999 | 18.2%<br>1961 | 15.7%<br>2004 | 13.3%<br>2004 |
| MID-CAP                  | 125.7%<br>1933 | 121.0%<br>1933 | 96.2%<br>1933  | 40.5%<br>1945  | 40.7%<br>1936  | 31.3%<br>1936  | 27.2%<br>1951 | 21.9%<br>1984 | 18.5%<br>1984 | 24.2%<br>1955 | 20.4%<br>1989 | 18.3%<br>1989 | 21.2%<br>1961 | 19.3%<br>1961 | 16.5%<br>1994 | 20.1%<br>2004 | 17.7%<br>1961 | 15.0%<br>2004 |
| SMALL-CAP                | 131.9%<br>1933 | 114.7%<br>1933 | 142.7%<br>1933 | 50.9%<br>1936  | 41.6%<br>1936  | 41.3%<br>1936  | 32.9%<br>1984 | 29.1%<br>1984 | 23.0%<br>1984 | 27.3%<br>1989 | 24.8%<br>1989 | 18.8%<br>1947 | 23.5%<br>1994 | 21.6%<br>1994 | 17.5%<br>1952 | 22.7%<br>2004 | 20.3%<br>2004 | 15.8%<br>1961 |
|                          | <-20%          |                |                |                |                |                | -10% to 0%    |               |               | 0%            |               |               | 0% to 10%     |               |               | >+20%         |               |               |
|                          |                |                |                |                |                |                |               |               |               |               |               |               |               |               |               | Top           |               |               |

As published in [Retirement Management Journal](#), Vol. 14, No. 1, 2025

# Asset Classes: Growth of \$10,000 1928-2023

**TABLE 2** Growth of \$10,000 (in Thousands of Dollars)

| 1A: Average      |                |                |                |                |                |                |                 |                 |                |                 |                 |                 |                 |                 |                 |                   |                   |                 |
|------------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|-----------------|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-------------------|-------------------|-----------------|
|                  | 1-YEAR         |                |                | 5-YEAR         |                |                | 10-YEAR         |                 |                | 15-YEAR         |                 |                 | 20-YEAR         |                 |                 | 30-YEAR           |                   |                 |
|                  | V              | C              | G              | V              | C              | G              | V               | C               | G              | V               | C               | G               | V               | C               | G               | V                 | C                 | G               |
| LARGE-CAP        | \$11.1         | \$10.9         | \$11.0         | \$17.1         | \$15.8         | \$16.3         | \$29.7          | \$26.4          | \$26.7         | \$51.3          | \$44.2          | \$43.3          | \$91.8          | \$76.5          | \$72.1          | \$303.4           | \$231.0           | \$206.6         |
| MID-CAP          | \$11.3         | \$11.2         | \$11.0         | \$18.7         | \$18.0         | \$16.6         | \$36.8          | \$33.4          | \$27.9         | \$75.2          | \$61.8          | \$46.3          | \$158.9         | \$117.7         | \$78.0          | \$692.1           | \$423.0           | \$222.6         |
| SMALL-CAP        | \$11.4         | \$11.3         | \$10.9         | \$20.4         | \$18.8         | \$15.9         | \$43.0          | \$36.4          | \$25.2         | \$92.7          | \$70.9          | \$39.5          | \$206.8         | \$141.6         | \$62.7          | \$1,009.6         | \$561.1           | \$160.0         |
| 1B: Single Worst |                |                |                |                |                |                |                 |                 |                |                 |                 |                 |                 |                 |                 |                   |                   |                 |
| LARGE-CAP        | \$4.5<br>1931  | \$3.6<br>1931  | \$6.4<br>1931  | \$4.5<br>1931  | \$2.8<br>1932  | \$6.1<br>1933  | \$5.3<br>2008   | \$5.6<br>1939   | \$9.9<br>2008  | \$8.5<br>2012   | \$7.8<br>1942   | \$12.2<br>1943  | \$11.4<br>2017  | \$12.8<br>1948  | \$17.9<br>1948  | \$71.6<br>2015    | \$66.1<br>1957    | \$95.7<br>1958  |
| MID-CAP          | \$4.7<br>1931  | \$5.0<br>1931  | \$6.0<br>1931  | \$3.1<br>1932  | \$3.3<br>1932  | \$3.7<br>1932  | \$4.4<br>1939   | \$10.4<br>1937  | \$8.3<br>1974  | \$7.3<br>1942   | \$15.9<br>1942  | \$11.5<br>1943  | \$19.8<br>1948  | \$34.8<br>1948  | \$18.5<br>1948  | \$112.0<br>1957   | \$183.0<br>1957   | \$86.5<br>1975  |
| SMALL-CAP        | \$4.8<br>1931  | \$5.1<br>1937  | \$5.1<br>1937  | \$2.6<br>1932  | \$3.1<br>1932  | \$2.4<br>1932  | \$8.1<br>1938   | \$10.3<br>1937  | \$7.8<br>1937  | \$12.5<br>1941  | \$15.9<br>1942  | \$10.4<br>1974  | \$42.3<br>1948  | \$33.0<br>1948  | \$20.8<br>1948  | \$227.4<br>1957   | \$166.5<br>1957   | \$57.7<br>2010  |
| 1C: Single Best  |                |                |                |                |                |                |                 |                 |                |                 |                 |                 |                 |                 |                 |                   |                   |                 |
| LARGE-CAP        | \$21.9<br>1933 | \$17.9<br>1933 | \$14.9<br>1928 | \$59.9<br>1936 | \$28.0<br>1954 | \$38.3<br>1999 | \$82.5<br>1951  | \$54.3<br>1958  | \$66.9<br>1998 | \$205.8<br>1956 | \$130.7<br>1989 | \$154.7<br>1999 | \$386.0<br>1998 | \$260.2<br>1998 | \$264.8<br>1999 | \$1,501.2<br>1961 | \$784.7<br>2004   | \$423.6<br>2004 |
| MID-CAP          | \$22.6<br>1933 | \$22.1<br>1933 | \$19.6<br>1933 | \$54.7<br>1945 | \$55.1<br>1936 | \$39.0<br>1936 | \$111.0<br>1951 | \$72.6<br>1984  | \$54.7<br>1984 | \$259.4<br>1955 | \$162.3<br>1989 | \$124.0<br>1989 | \$464.8<br>1961 | \$339.9<br>1961 | \$213.0<br>1994 | \$2,447.4<br>2004 | \$1,311.9<br>1961 | \$670.6<br>2004 |
| SMALL-CAP        | \$23.2<br>1933 | \$21.5<br>1933 | \$24.3<br>1933 | \$78.3<br>1936 | \$57.0<br>1936 | \$56.3<br>1936 | \$171.8<br>1984 | \$129.0<br>1984 | \$79.2<br>1984 | \$373.5<br>1989 | \$278.6<br>1989 | \$132.1<br>1947 | \$686.4<br>1994 | \$501.9<br>1994 | \$250.1<br>1952 | \$4,625.1<br>2004 | \$2,528.8<br>2004 | \$824.2<br>1961 |
|                  | <-20%          |                |                | -10% to 0%     |                |                | 0%              |                 |                | 0% to 10%       |                 |                 | >+20%           |                 |                 | Top               |                   |                 |

# The “Horseshoe” Effect: Small-Cap Value Dominates

Note that small-cap value provides the highest **average** returns for all time spans, the highest **minimum** for 20- and 30 years spans, and the highest **maximum** for all time spans except 1-year.

**TABLE 3** Dominance of Small-Cap Value Stocks

|         | 1-YEAR                          | 5-YEAR                          | 10-YEAR                         | 15-YEAR                         | 20-YEAR                         | 30-YEAR                         |
|---------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|
| Average | Small Value<br>14.3%<br>Average | Small Value<br>15.3%<br>Average | Small Value<br>15.7%<br>Average | Small Value<br>16.0%<br>Average | Small Value<br>16.4%<br>Average | Small Value<br>16.6%<br>Average |
| Minimum | Large Growth<br>-36.0%<br>1931  | Large Growth<br>-9.4%<br>1933   | Mid Core<br>0.4%<br>1937        | Small Core<br>3.2%<br>1942      | Small Value<br>7.5%<br>1948     | Small Value<br>11.0%<br>1957    |
| Maximum | Small Growth<br>142.7%<br>1933  | Small Value<br>50.9%<br>1936    | Small Value<br>32.9%<br>1984    | Small Value<br>27.3%<br>1989    | Small Value<br>23.5%<br>1994    | Small Value<br>22.7%<br>2004    |

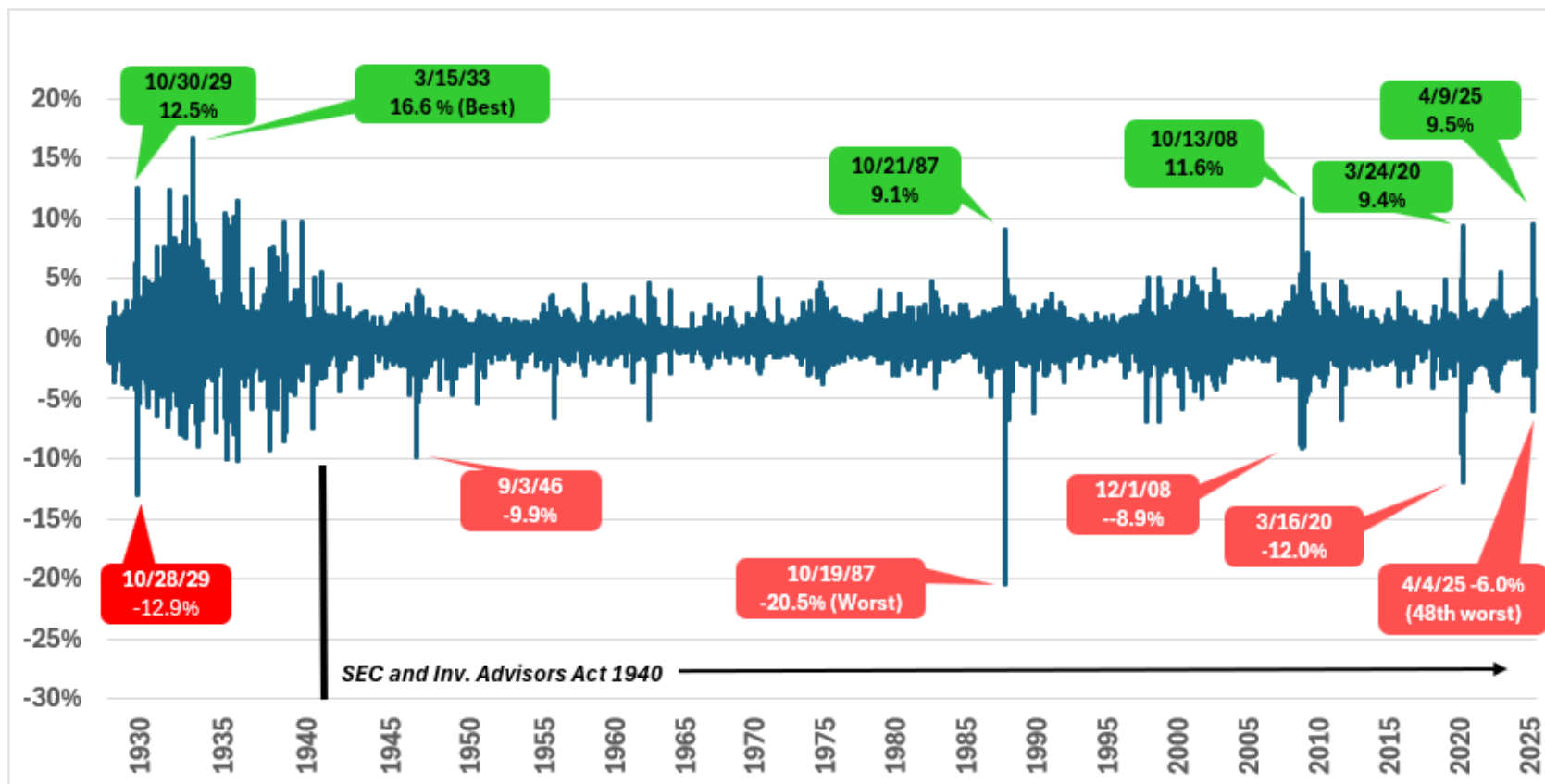
# **S&P 500: Daily Price Changes – 1928-6/30/25**

- Asset Dedication builds its models using data back to 1928 specifically to include the Great Depression and WW 2 – the two most catastrophic events of the 20<sup>th</sup> century
- Historically, the problems that became obvious during the Great Depression led to federal legislation during the 1930s culminated with the Investment Advisors Act of 1940
- The legislation had a significant impact on the market, reducing its volatility significantly as can be seen on the next slide
- Will another Great Depression happen again? Unlikely, but nobody know for sure.



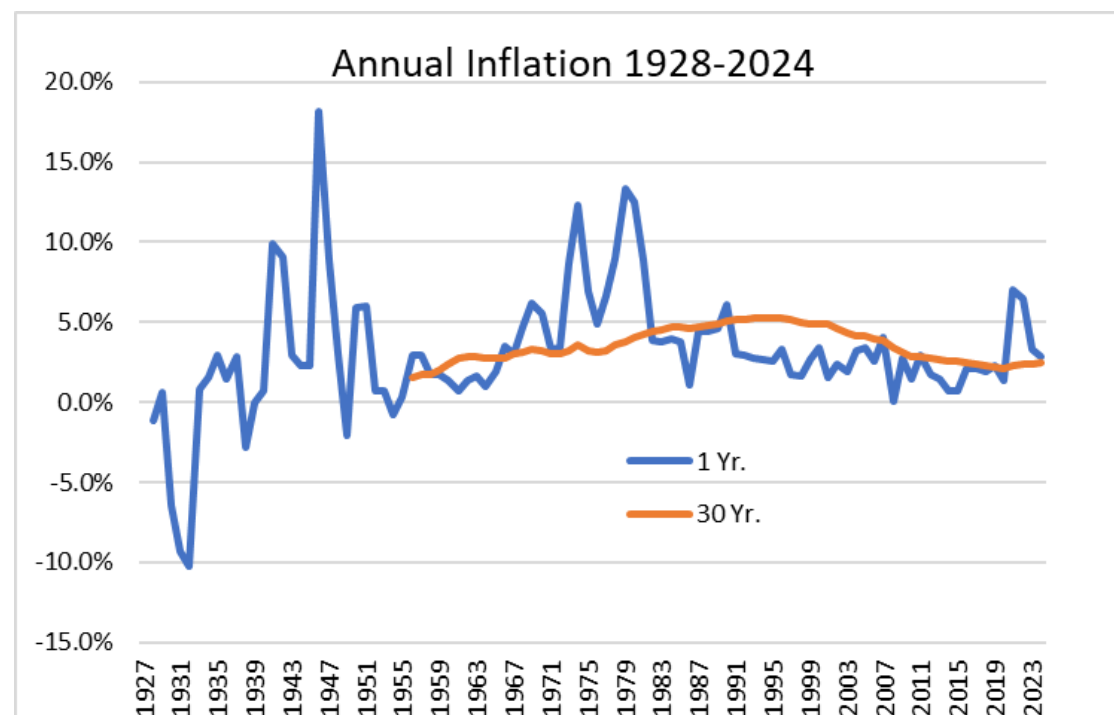
# One-Day Fluctuations 1/3/28-6/30/25

25,577 Days – Avg/Max/Min = 0.03%/16.6%/-20.5%



# Inflation Over Rolling Time Spans: 1928-2024

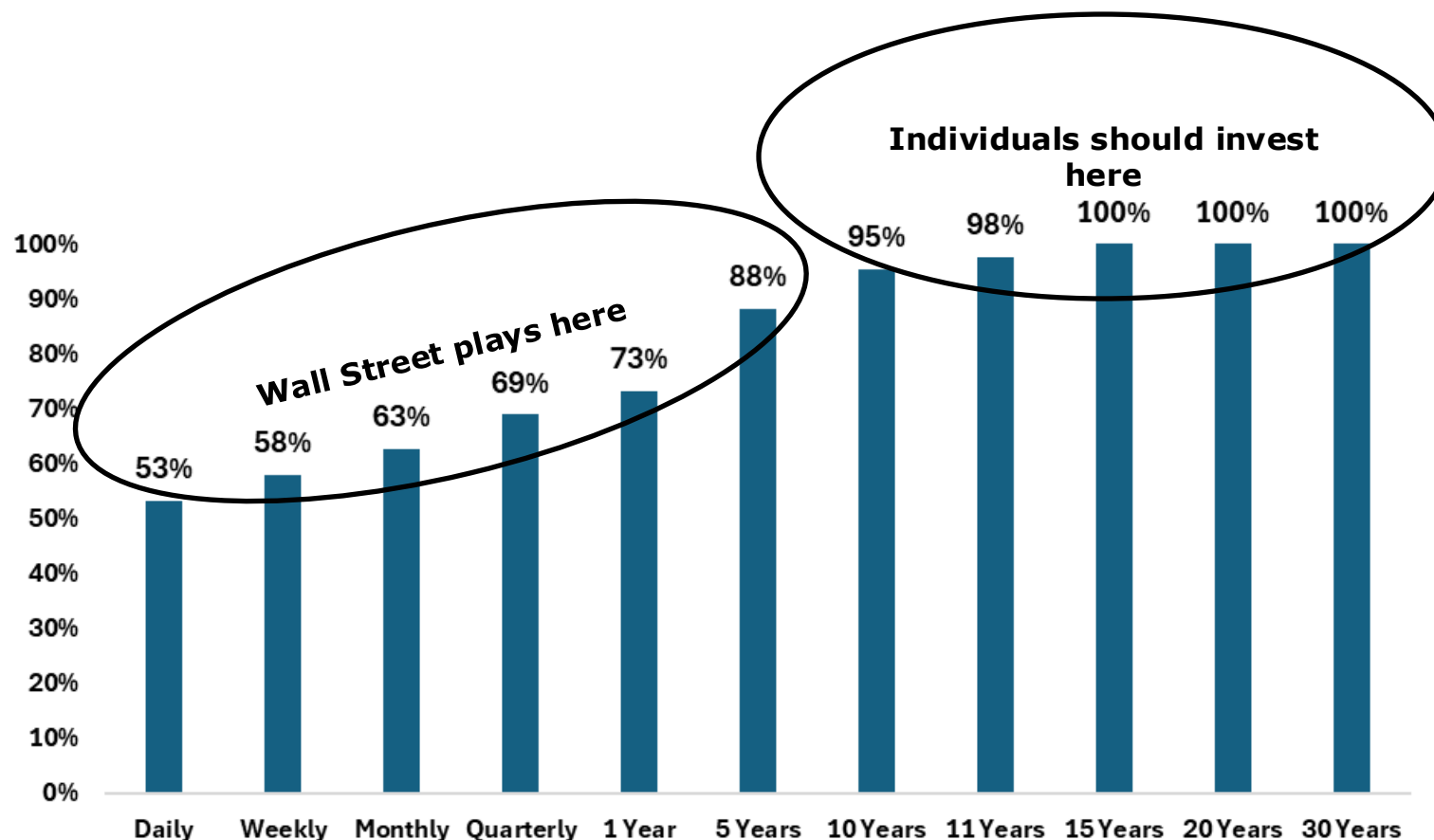
| Statistic | 1 Yr.  | 5 Yr. | 10 Yr | 15 Yr. | 20 Yr. | 25 Yr. | 30 Yr. |
|-----------|--------|-------|-------|--------|--------|--------|--------|
| Average   | 3.1%   | 3.2%  | 3.4%  | 3.2%   | 3.4%   | 3.5%   | 3.5%   |
| Max       | 18.1%  | 10.1% | 8.7%  | 7.0%   | 6.2%   | 5.8%   | 5.3%   |
| Min       | -10.3% | -5.4% | -2.0% | -0.7%  | 1.1%   | 1.7%   | 1.6%   |



# Asset Dedication Long Term Returns

- All Asset Dedication equity Growth Portfolios are built from one time span, the longest term: 1928-2024, 97 years.
- Shorter time spans would exclude the Great Depression (1929-41) and WW 2 (1942-45)
  - 39 out of 58 (67%) 40-year time spans exclude both events
  - 49 out of 68 (72%) 30-year time spans exclude both, 76% of 20-year spans, etc.
- The bottom line: Asset Dedication uses 1928 to be conservative

# How Often Are Annual Returns Positive? 1928-2024



## Averages, Minimums, and Maximums for Various Time Spans:

- Years covered: 1928-2024
- **Yellow** denotes best for that time span
- 97-year time span
  - 58 Rolling 40-year time spans
  - 19 Include Great Depression and WW2
  - 39 Exclude Great Depression and WW
- 68 Rolling 30-year time spans
  - 19 Include Great Depression and WW2
  - 49 Exclude Great Depression and WW2
- 78 Rolling 20-year time spans
  - 19 Include Great Depression and WW2
  - 59 Exclude Great Depression and WW2
- Etc.

| Growth Portfolio |                | Time Span in Years, 1928-2024 |       |       |       |       |       |       |       |
|------------------|----------------|-------------------------------|-------|-------|-------|-------|-------|-------|-------|
|                  |                | 1                             | 5     | 10    | 15    | 20    | 30    | 40    | 97    |
| Average          | 15+ Year       | 14.0%                         | 12.6% | 12.8% | 13.1% | 13.3% | 13.7% | 13.9% | 12.8% |
|                  | 7-15 Year      | 14.0%                         | 12.8% | 13.0% | 13.3% | 13.5% | 13.9% | 14.2% | 12.6% |
|                  | 15+ Year Beta  | 13.3%                         | 12.2% | 12.4% | 12.7% | 12.9% | 13.3% | 13.5% | 11.8% |
|                  | 7-15 Year Beta | 13.0%                         | 11.9% | 12.1% | 12.4% | 12.6% | 13.0% | 13.2% | 11.5% |
|                  | 4-6 Year       | 11.5%                         | 10.6% | 10.8% | 11.0% | 11.2% | 11.5% | 11.7% | 10.4% |
|                  | 4-6 Year Beta  | 12.2%                         | 11.2% | 11.4% | 11.6% | 11.7% | 12.1% | 12.2% | 10.4% |
|                  | 1-3 Year       | 10.0%                         | 9.3%  | 9.5%  | 9.7%  | 9.8%  | 10.1% | 10.2% | 9.2%  |
|                  | S&P 500        | 12.0%                         | 10.6% | 10.7% | 10.8% | 10.9% | 11.1% | 11.0% | 10.2% |

| Growth Portfolio |                | Time Span in Years, 1928-2024 |        |       |      |      |      |       |        |
|------------------|----------------|-------------------------------|--------|-------|------|------|------|-------|--------|
|                  |                | 1                             | 5      | 10    | 15   | 20   | 30   | 40    | 97     |
| Minimum          | 15+ Year       | -43.7%                        | -17.6% | 1.7%  | 3.8% | 5.6% | 8.1% | 10.1% | -41.3% |
|                  | 7-15 Year      | -46.4%                        | -17.5% | 2.0%  | 4.3% | 5.9% | 8.3% | 10.3% | -42.1% |
|                  | 15+ Year Beta  | -43.2%                        | -16.0% | 1.3%  | 3.4% | 5.1% | 7.9% | 9.7%  | -40.5% |
|                  | 7-15 Year Beta | -42.6%                        | -15.4% | 1.3%  | 3.4% | 4.9% | 7.8% | 9.5%  | -41.3% |
|                  | 4-6 Year       | -41.8%                        | -13.4% | 0.6%  | 2.9% | 3.9% | 7.1% | 8.3%  | -40.6% |
|                  | 4-6 Year Beta  | -41.6%                        | -13.2% | 1.2%  | 3.3% | 4.3% | 7.8% | 8.9%  | -37.8% |
|                  | 1-3 Year       | -39.0%                        | -13.2% | -0.1% | 2.5% | 3.6% | 6.2% | 7.0%  | -39.5% |
|                  | S&P 500        | -43.3%                        | -12.5% | -1.4% | 0.6% | 3.1% | 8.5% | 8.9%  | -43.3% |

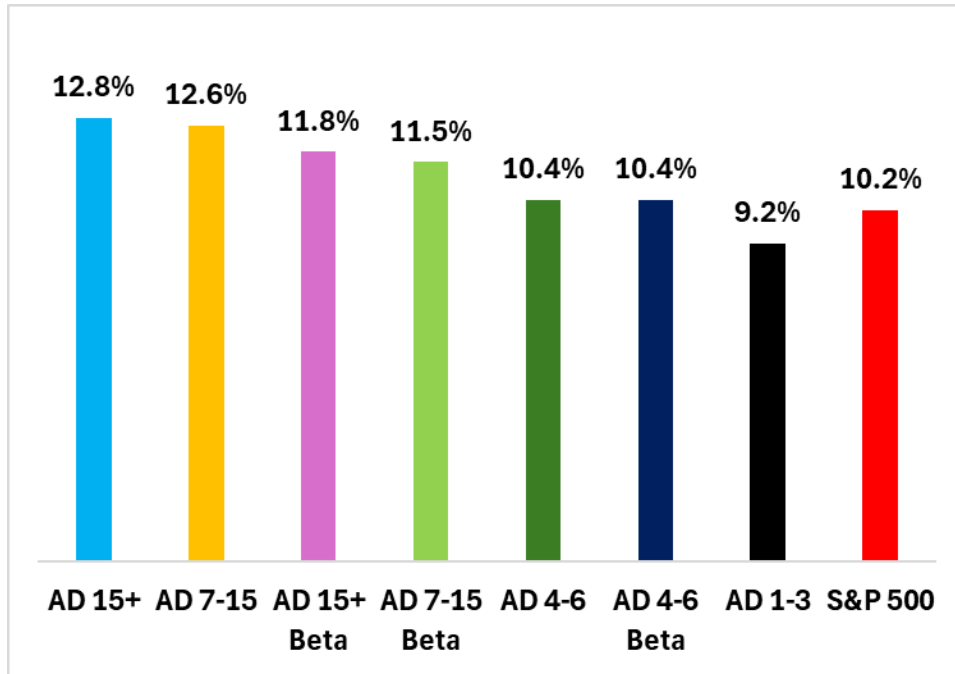
| Growth Portfolio |                | Time Span in Years, 1928-2024 |       |       |       |       |       |       |        |
|------------------|----------------|-------------------------------|-------|-------|-------|-------|-------|-------|--------|
|                  |                | 1                             | 5     | 10    | 15    | 20    | 30    | 40    | 97     |
| Maximum          | 15+ Year       | 116.6%                        | 34.3% | 23.0% | 23.8% | 21.1% | 18.5% | 16.3% | 108.7% |
|                  | 7-15 Year      | 121.0%                        | 34.7% | 23.4% | 25.0% | 21.5% | 18.8% | 16.8% | 99.6%  |
|                  | 15+ Year Beta  | 99.0%                         | 31.1% | 21.4% | 22.8% | 20.2% | 18.1% | 15.8% | 108.8% |
|                  | 7-15 Year Beta | 93.8%                         | 30.0% | 20.5% | 22.2% | 19.7% | 17.5% | 15.3% | 94.3%  |
|                  | 4-6 Year       | 72.3%                         | 26.9% | 19.4% | 19.4% | 17.0% | 15.0% | 13.7% | 71.5%  |
|                  | 4-6 Year Beta  | 76.0%                         | 26.4% | 19.5% | 19.9% | 17.7% | 15.7% | 14.1% | 68.1%  |
|                  | 1-3 Year       | 63.3%                         | 22.2% | 15.9% | 16.4% | 14.8% | 13.1% | 11.7% | 64.8%  |
|                  | S&P 500        | 54.0%                         | 28.6% | 20.1% | 18.9% | 17.9% | 13.7% | 12.5% | 54.0%  |

# Specific Time Spans

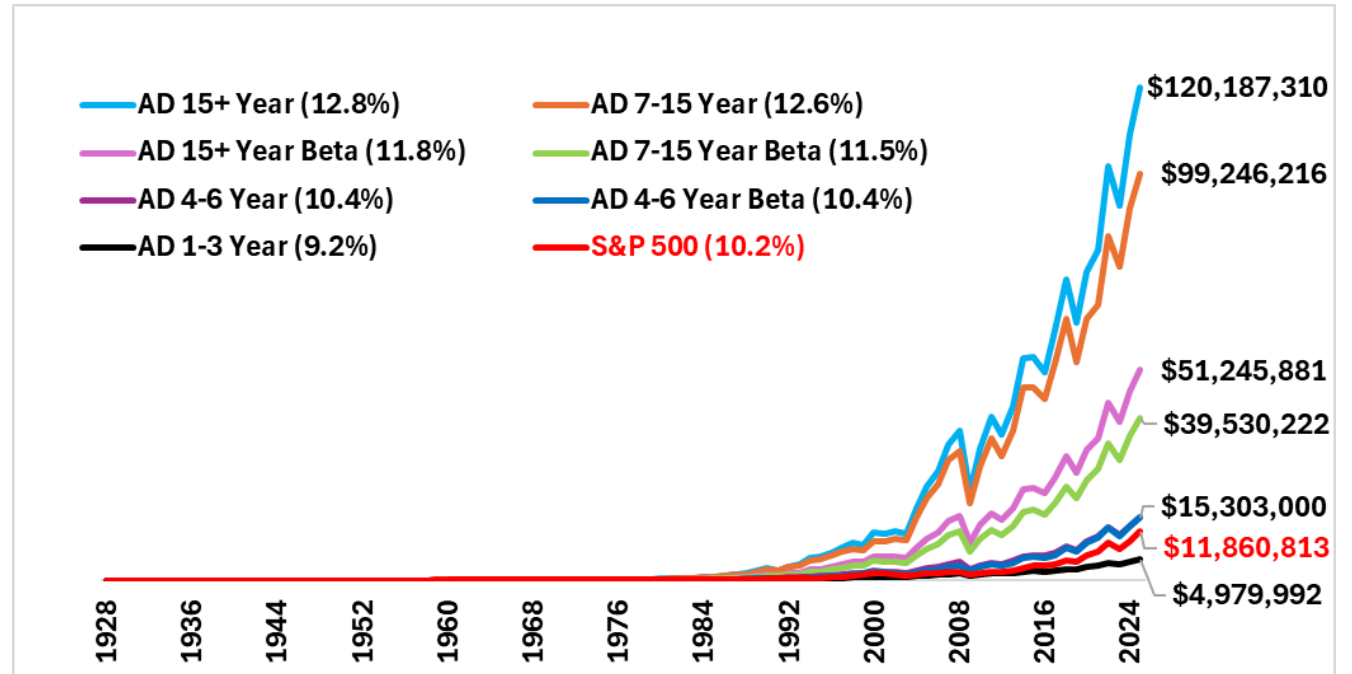
- It is sometimes easier to review results for a specific time span rather than averages for many time spans
- The next slides illustrate AD Growth Portfolio performances for 1928 to 2024, then all the decades beginning with 1940, 1950, etc.
- One slide covers the 2000-2009 when the S&P 500 had a very bad decade – it lost 0.9% per year.
  - It made up for that in 2010-2024, growing 13.9% per year
  - Its overall average for 2000-2024 is 7.7% and 1990-2024 is 10.6%, slightly better than its long-term average of 10.2% since 1928.

# AD Growth Portfolios: 1928-2024

## Annual Returns. 1928-2024

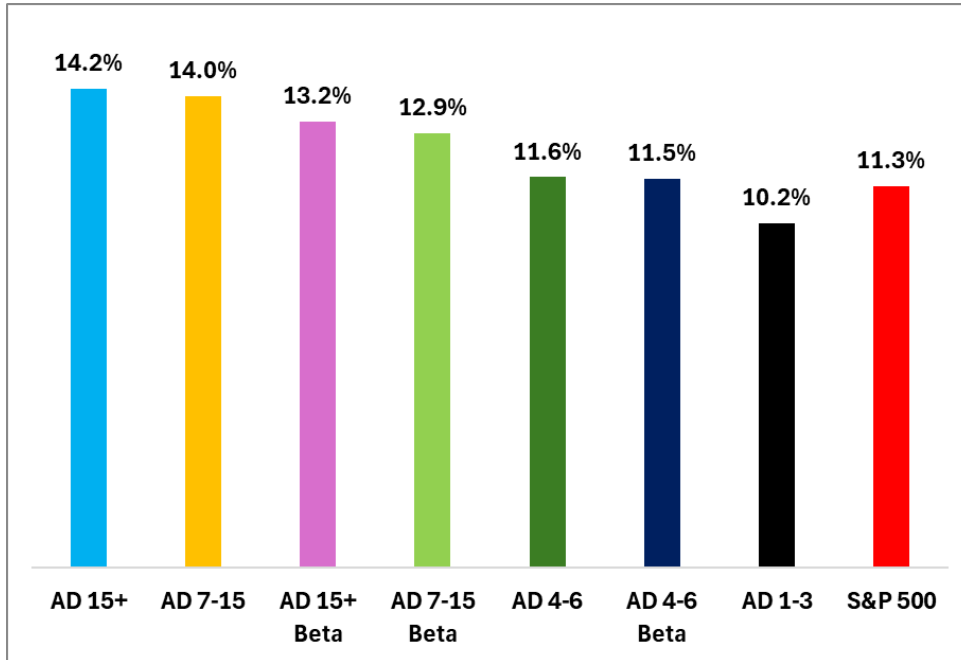


## Growth of \$1,000 1928-2024

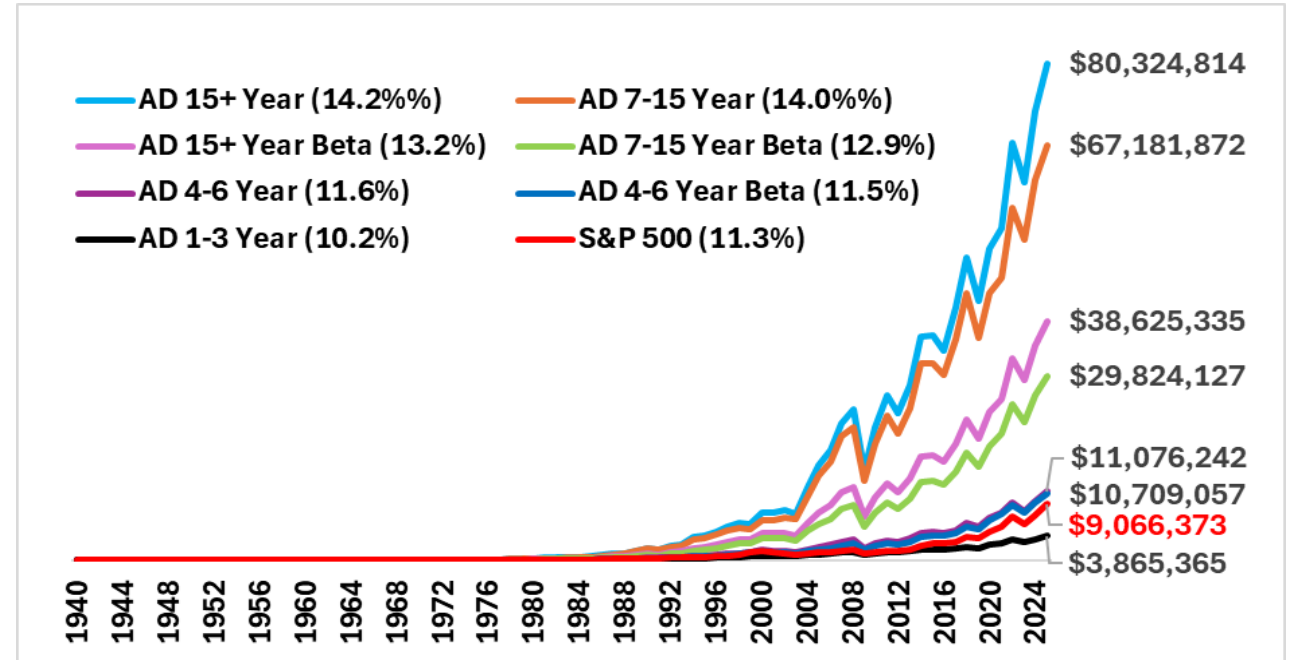


# AD Growth Portfolios: 1940-2024

## Annual Returns. 1940-2024



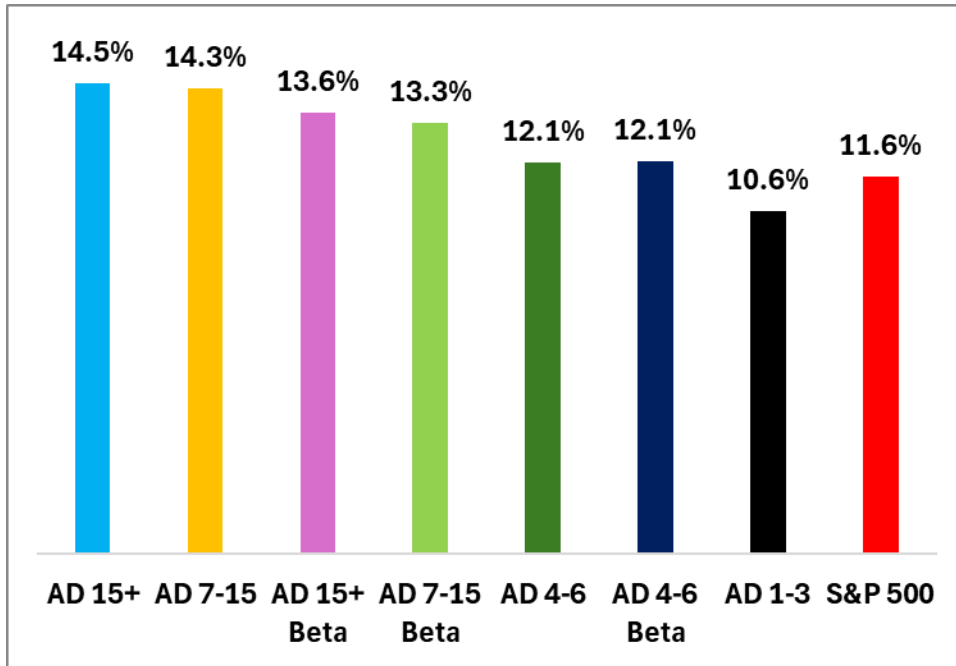
## Growth of \$1,000 1940-2024



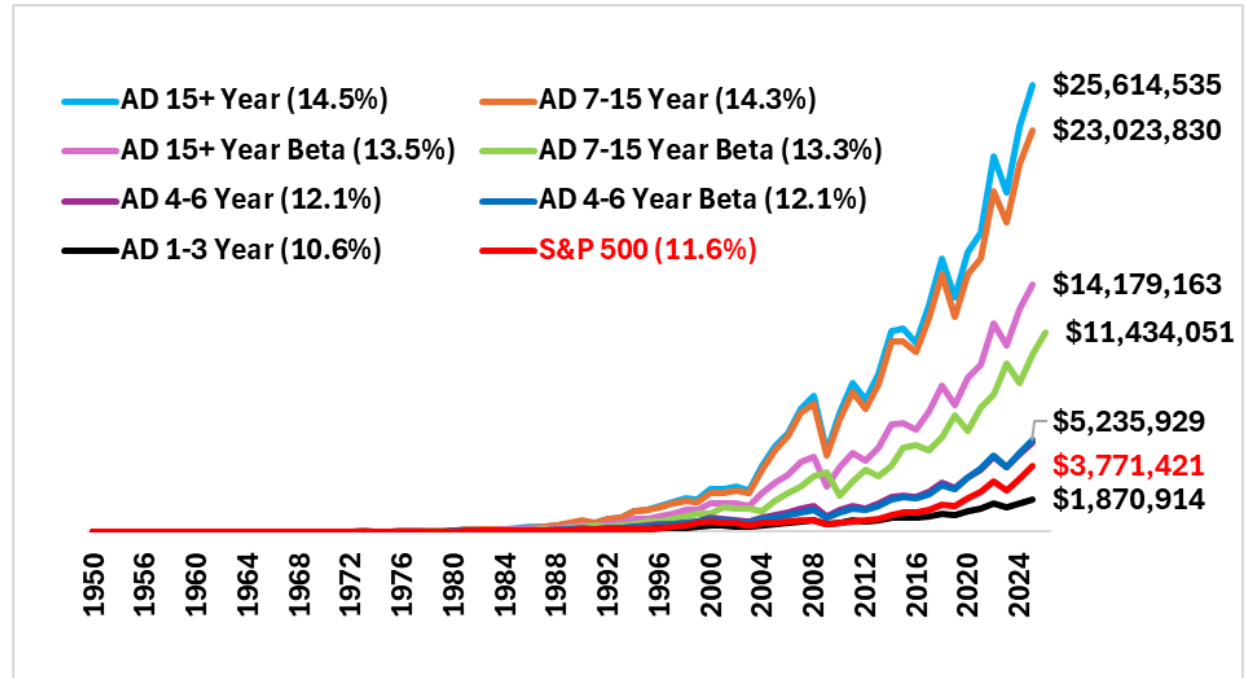


# AD Growth Portfolios: 1950-2024

## Annual Returns. 1950-2024

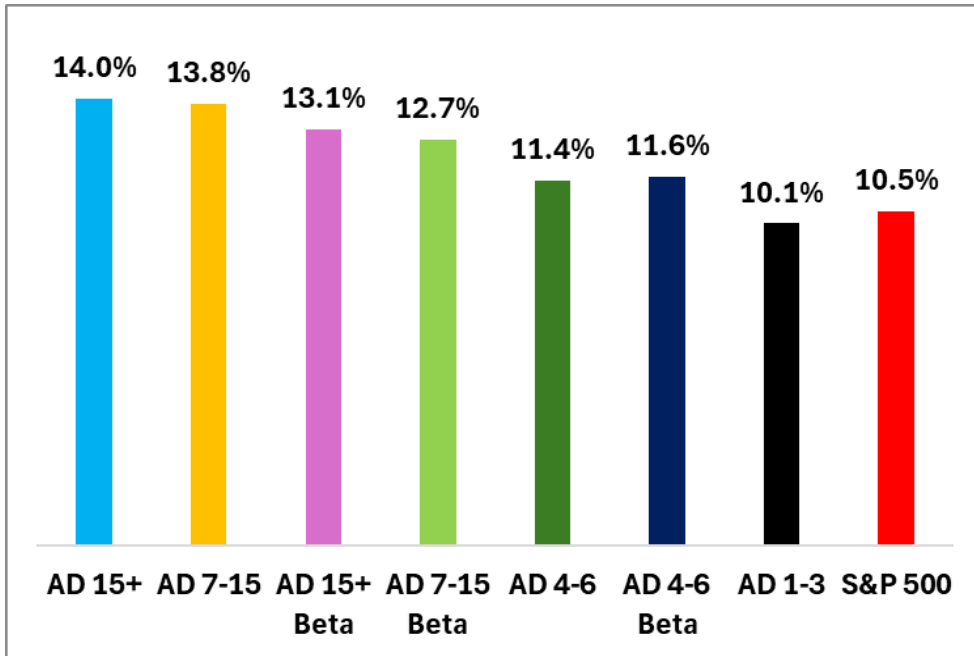


## Growth of \$1,000 1950-2024

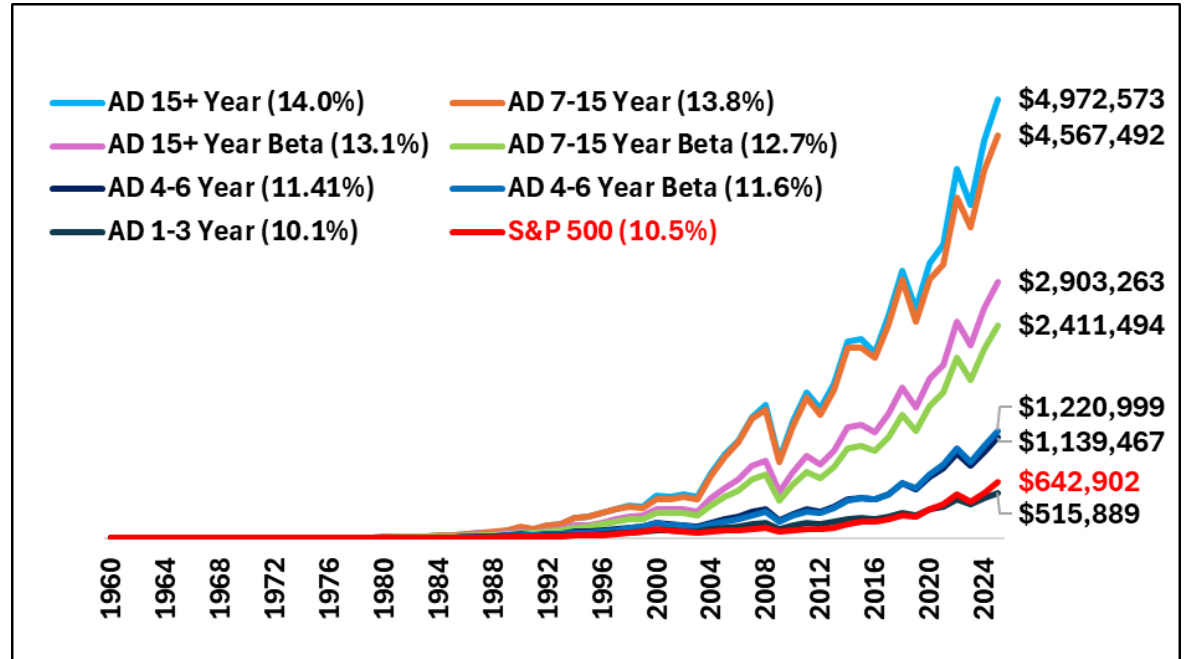


# AD Growth Portfolios: 1960-2024

## Annual Returns. 1960-2024

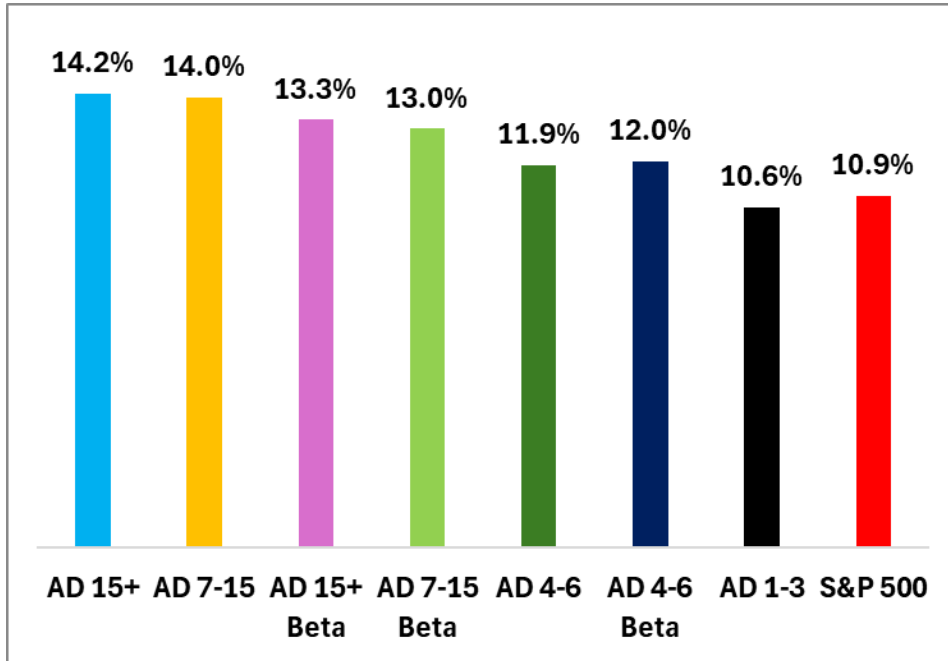


## Growth of \$1,000 1960-2024

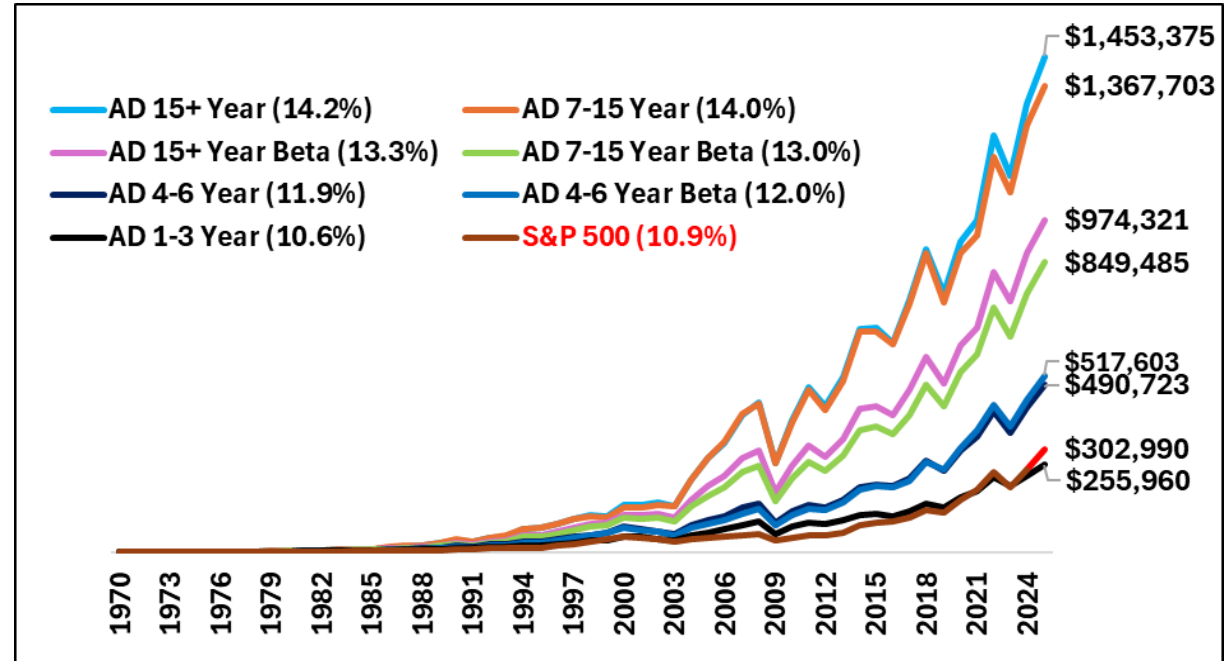


# AD Growth Portfolios: 1970-2024

## Annual Returns. 1970-2024

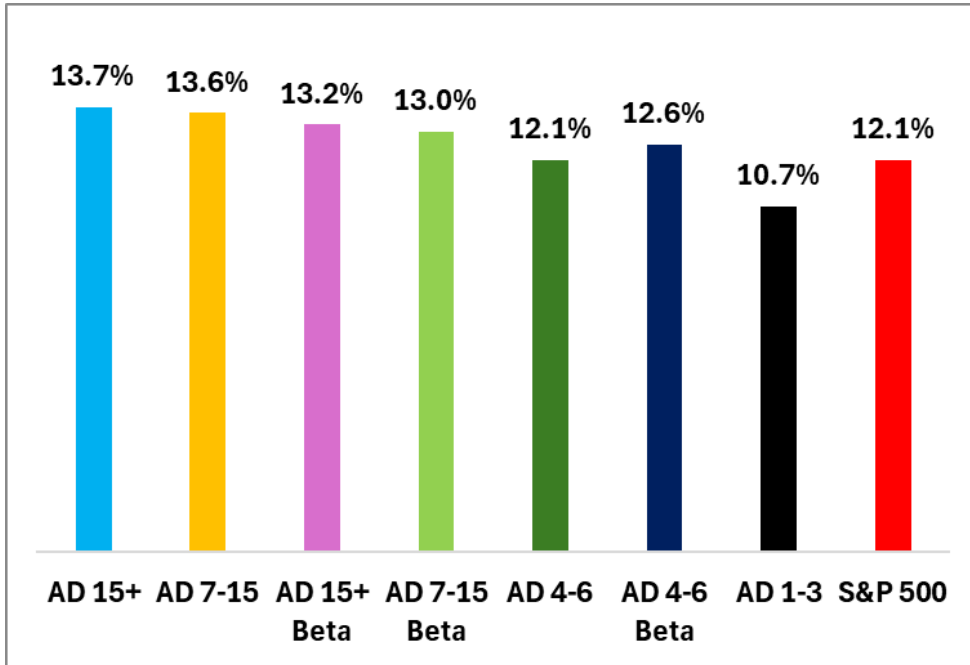


## Growth of \$1,000 1970-2024

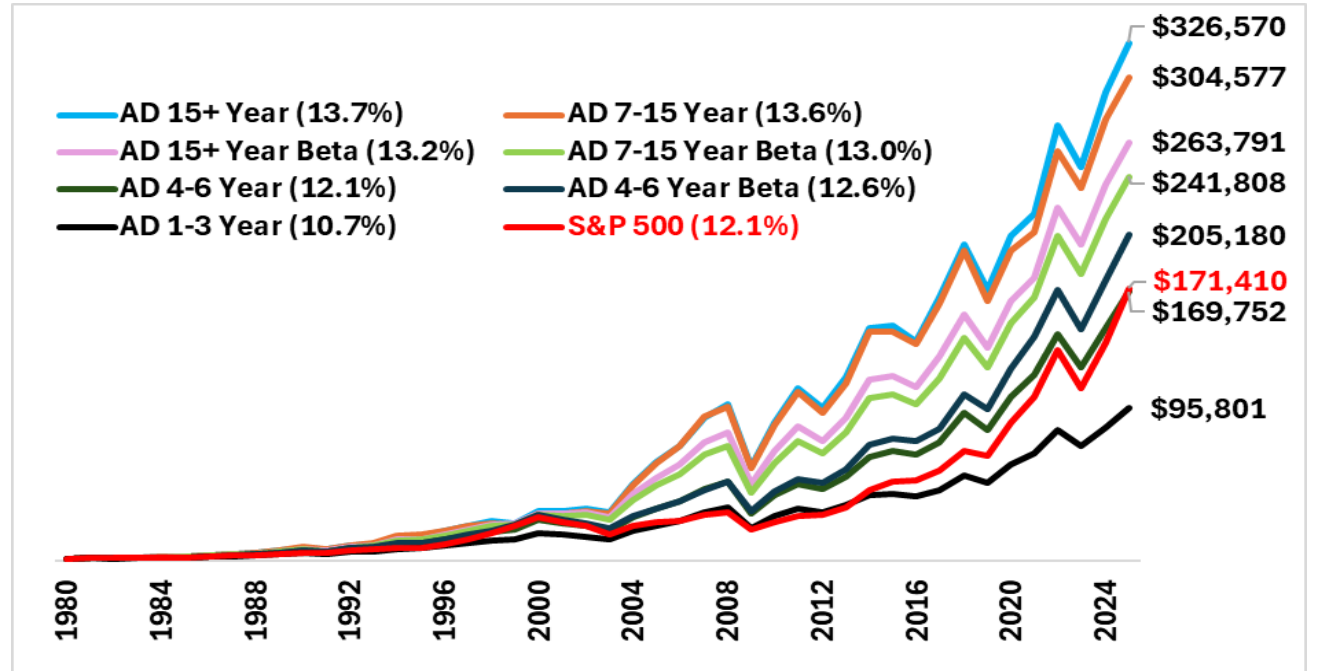


# AD Growth Portfolios: 1980-2024

## Annual Returns. 1980-2024

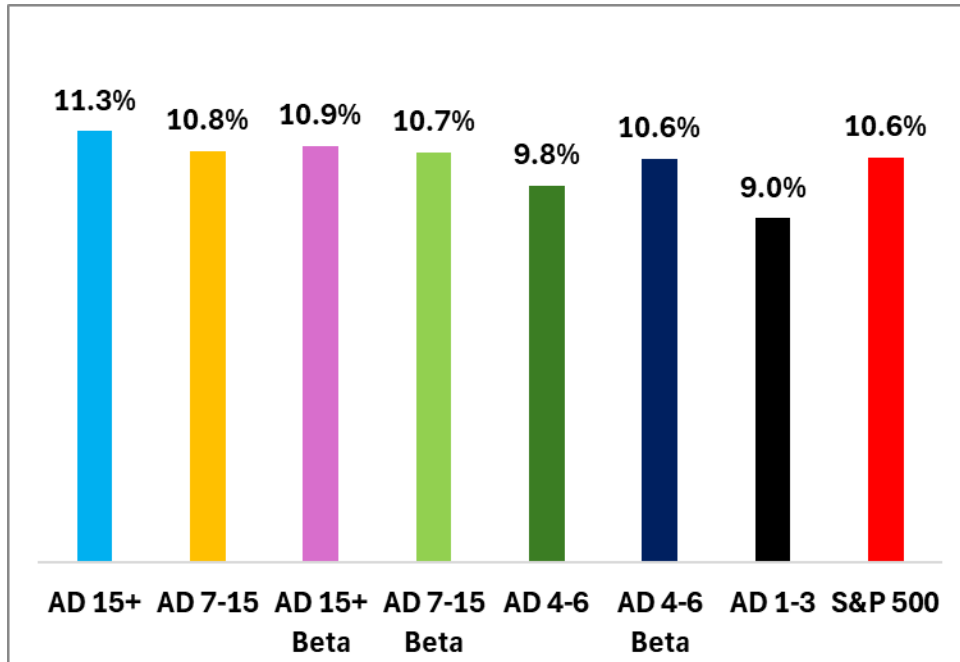


## Growth of \$1,000 1980-2024

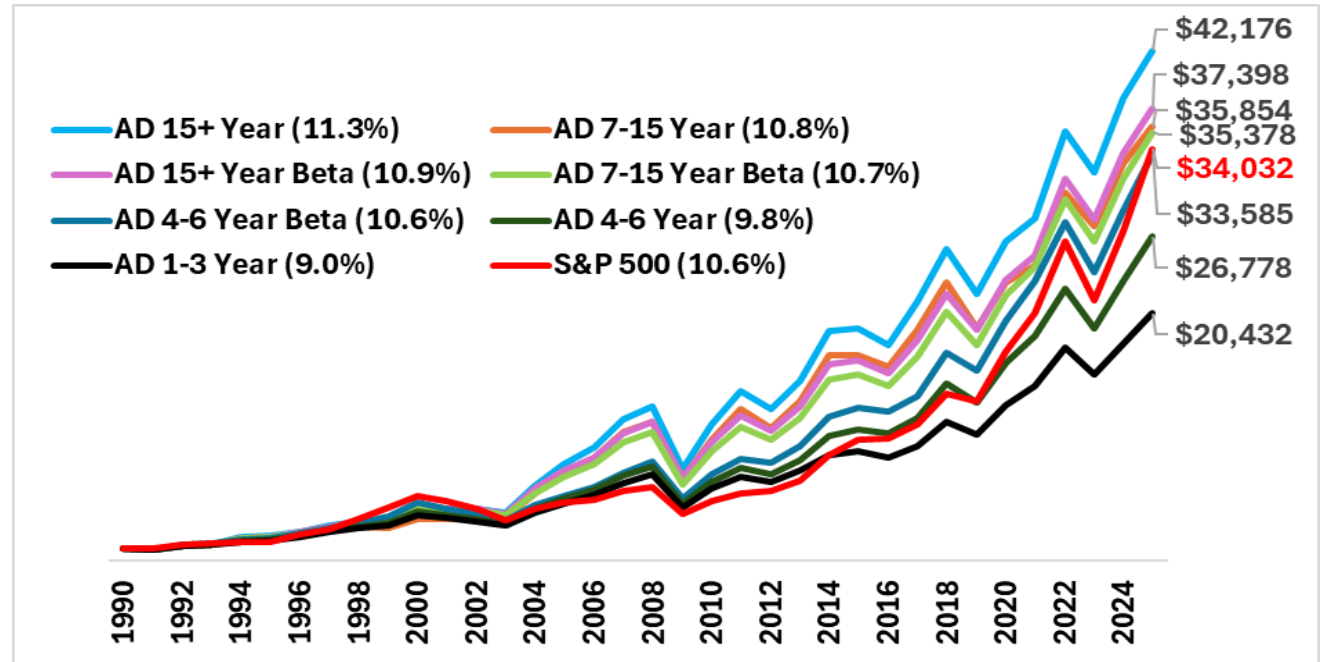


# AD Growth Portfolios: 1990-2024

## Annual Returns. 1990-2024

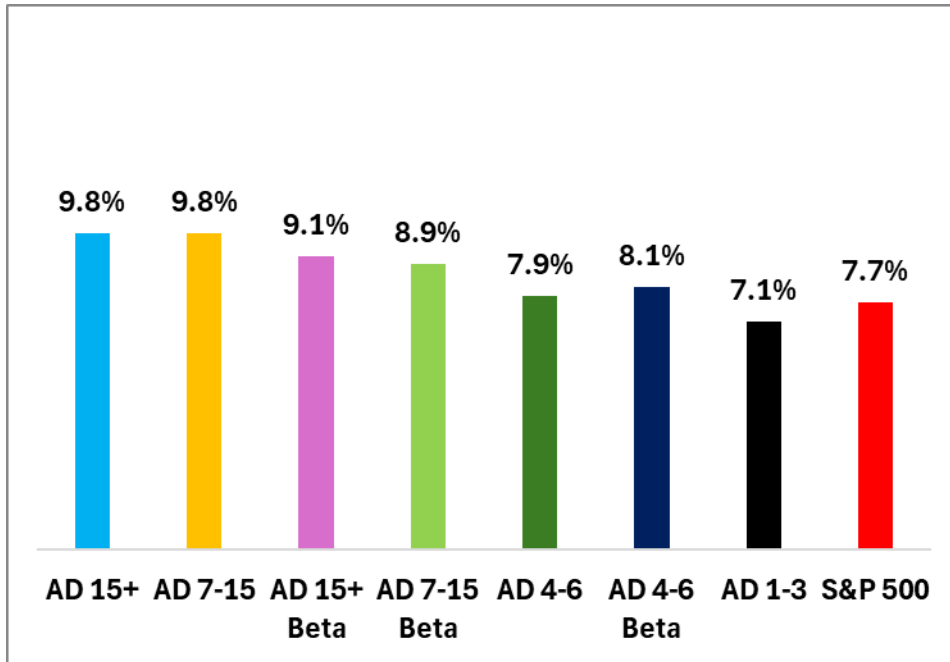


## Growth of \$1,000 1990-2024

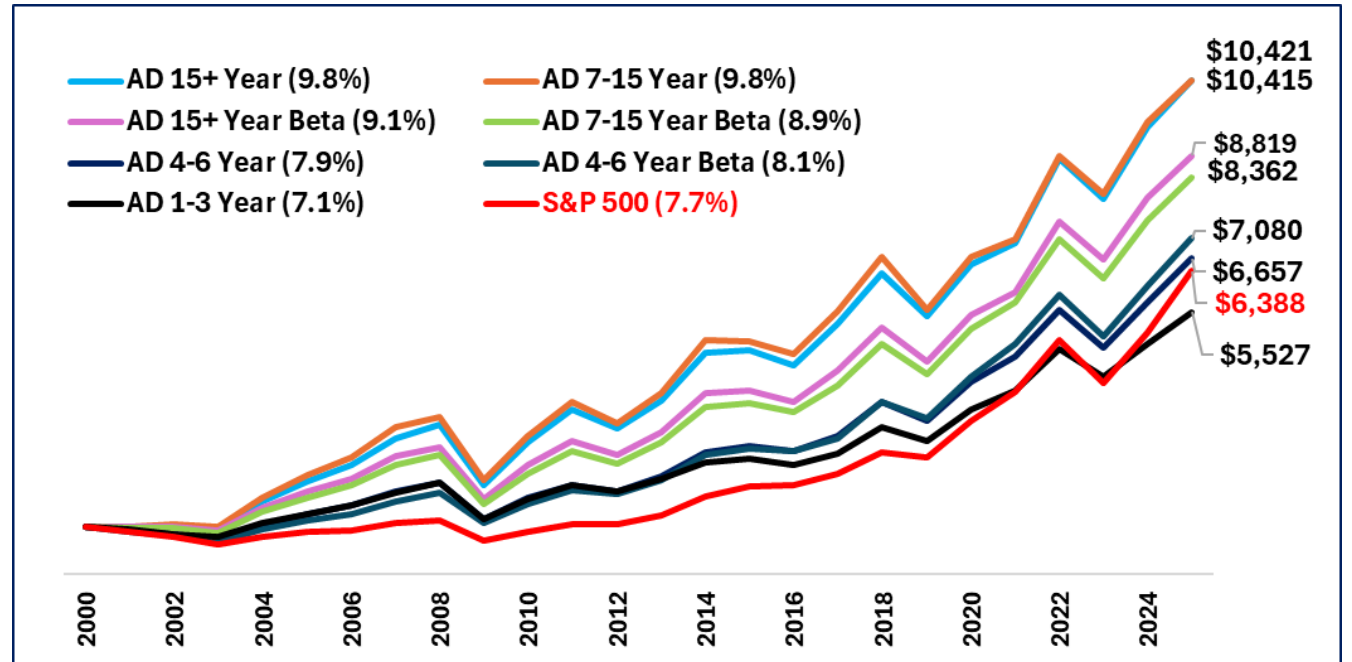


# AD Growth Portfolios: 2000-2024

## Annual Returns. 2000-2024

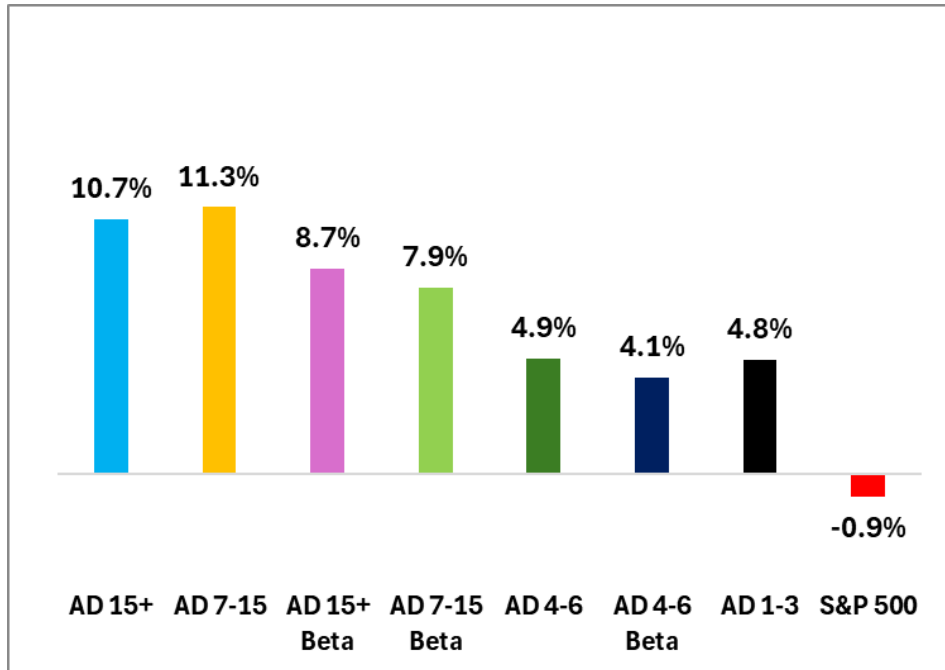


## Growth of \$1,000 2000-2024

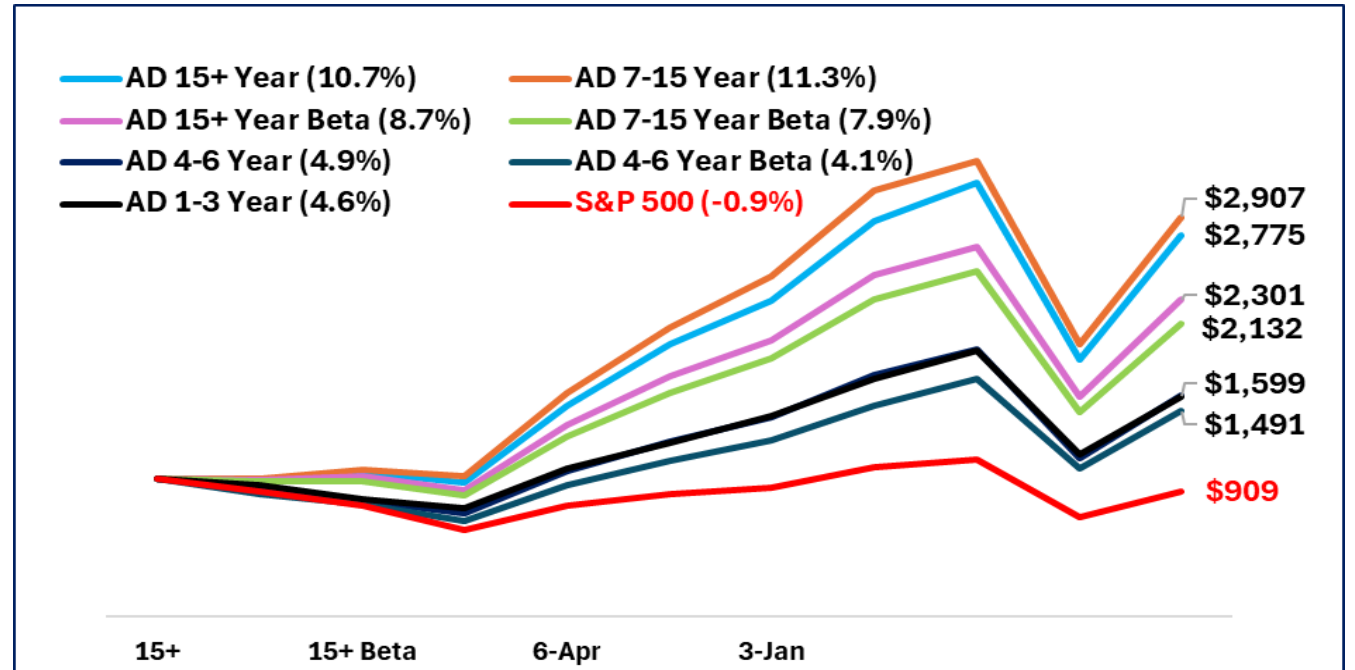


# AD Growth Portfolios: 2000-2009 (The “Lost Decade”)

**Annual Returns. 2000-2009**

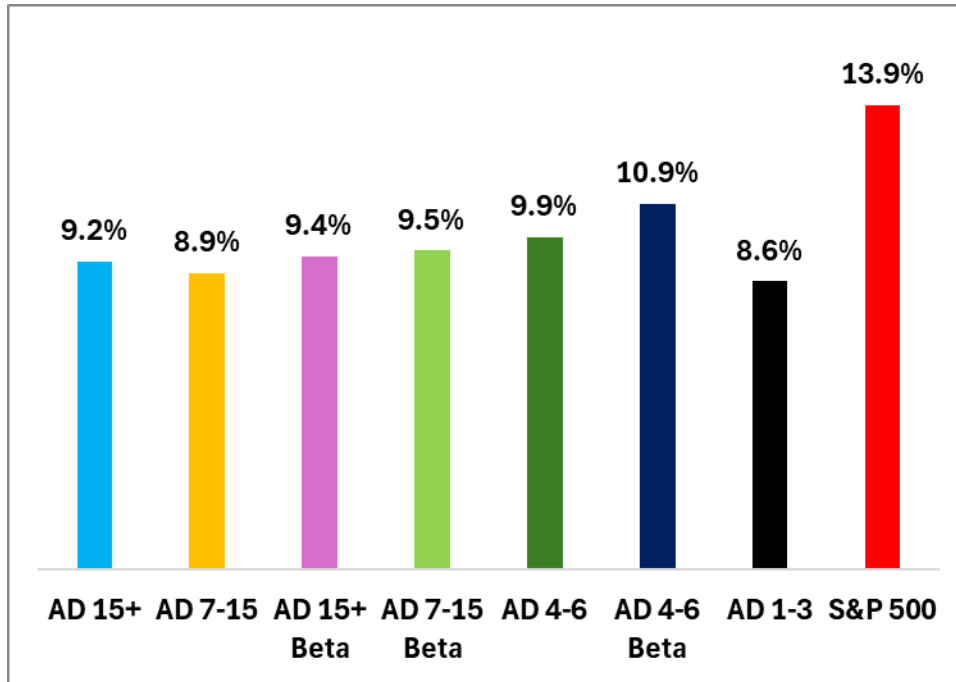


**Growth of \$1,000 2000-2009**

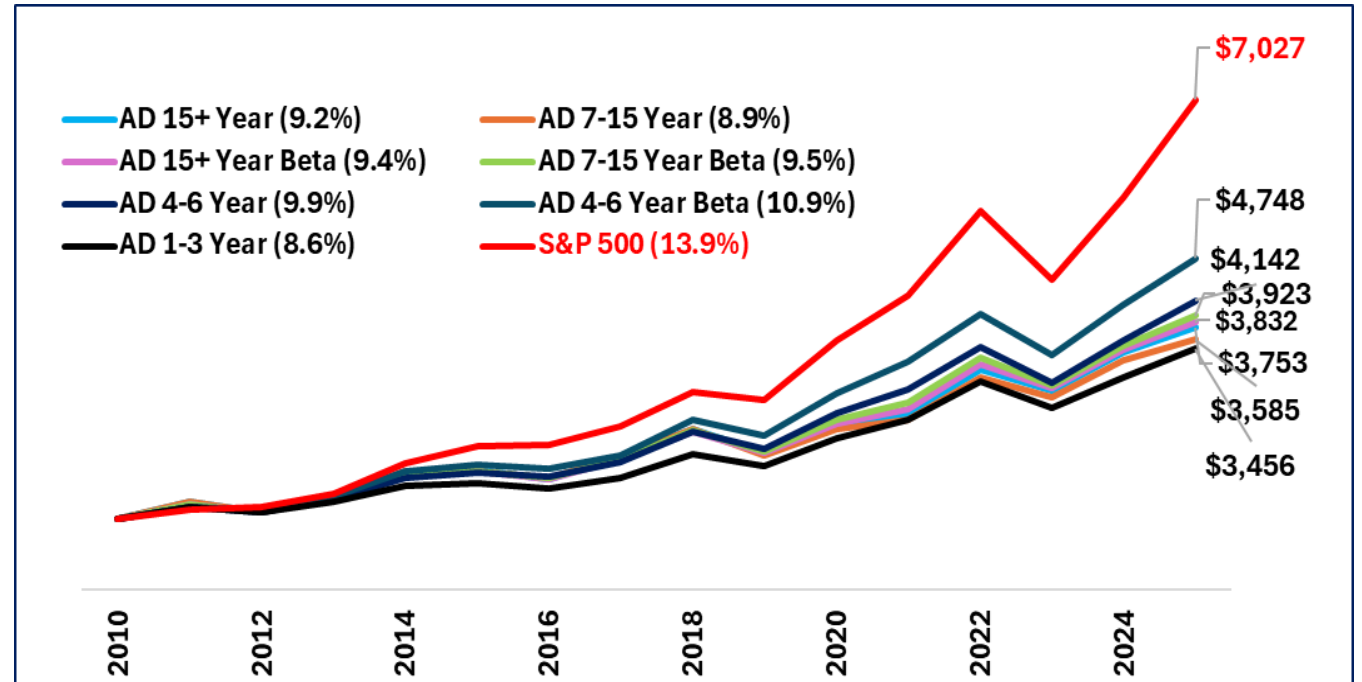


# AD Growth Portfolios: 2010-2024

## Annual Returns. 2010-2024



## Growth of \$1,000 2010-2024





## Disclosures

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