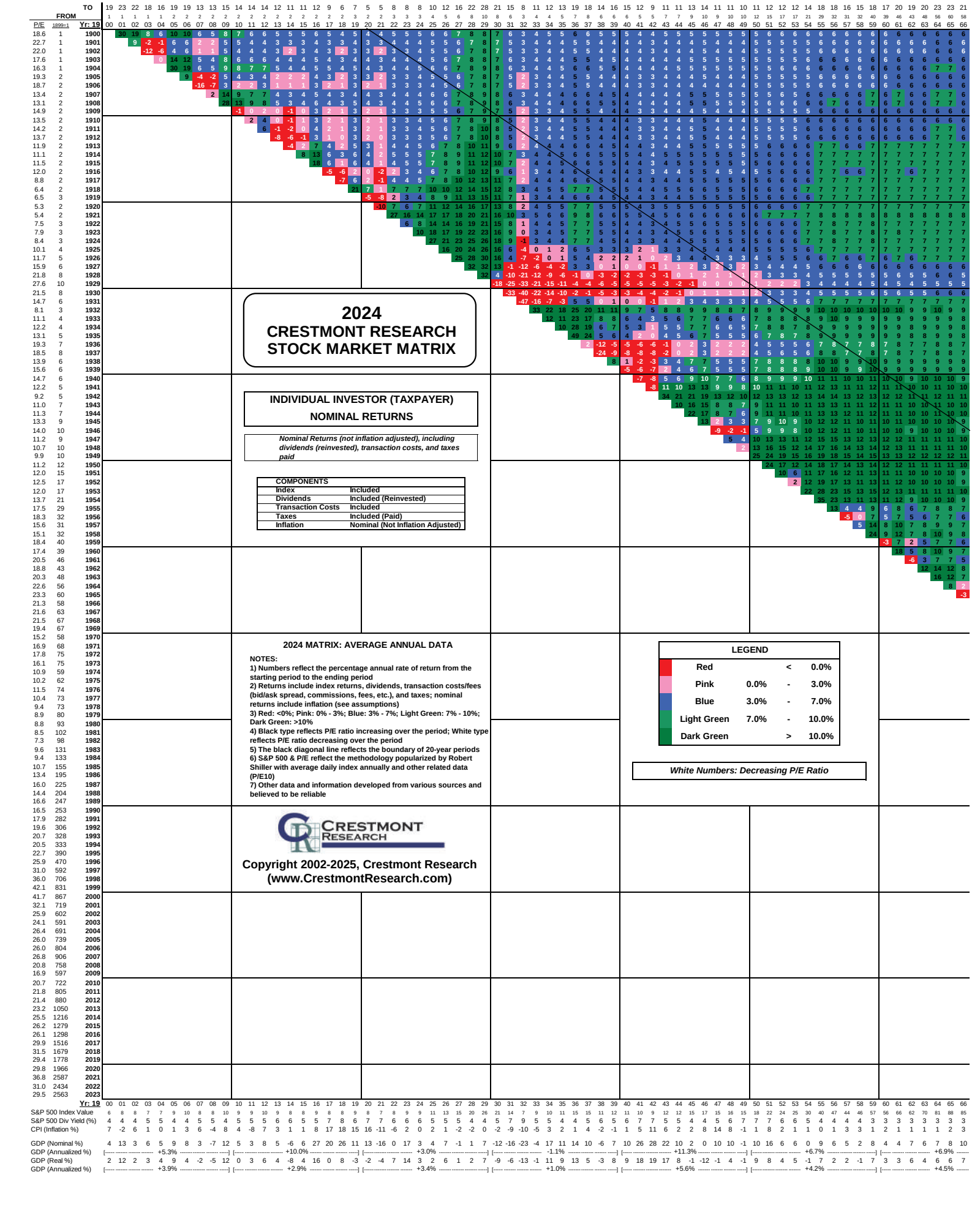
2024
CRESTMONT RESEARCH
STOCK MARKET MATRIX
INDIVIDUAL INVESTOR (TAXPAYER)
NOMINAL RETURNS
Nominal Returns (not inflation adjusted), including dividends (reinvested), transaction costs, and taxes paid
COMPONENTS
Index Included
Dividends Included (Reinvested)
Transaction Costs Included
Taxes Included (Paid)
Inflation Nominal (Not Inflation Adjusted)
2024 MATRIX: AVERAGE ANNUAL DATA
NOTES:
1) Numbers reflect the percentage annual rate of return from the starting period to the ending period
2) Returns include index returns, dividends, transaction costs/fees (bid/ask spread, commissions, fees, etc.), and taxes; nominal returns include inflation (see assumptions)
3) Red: <0%; Pink: 0% - 3%; Blue: 3% - 7%; Light Green: 7% - 10%; Dark Green: >10%
4) Black type reflects P/E ratio increasing over the period; White type reflects P/E ratio decreasing over the period
5) The black diagonal line reflects the boundary of 20-year periods
6) S&P 500 & P/E reflect the methodology popularized by Robert Shiller with average daily index annually and other related data (P/E10)
7) Other data and information developed from various sources and believed to be reliable
LEGEND
Red < 0.0%
Pink 0.0% - 3.0%
Blue 3.0% - 7.0%
Light Green 7.0% - 10.0%
Dark Green > 10.0%
White Numbers: Decreasing P/E Ratio
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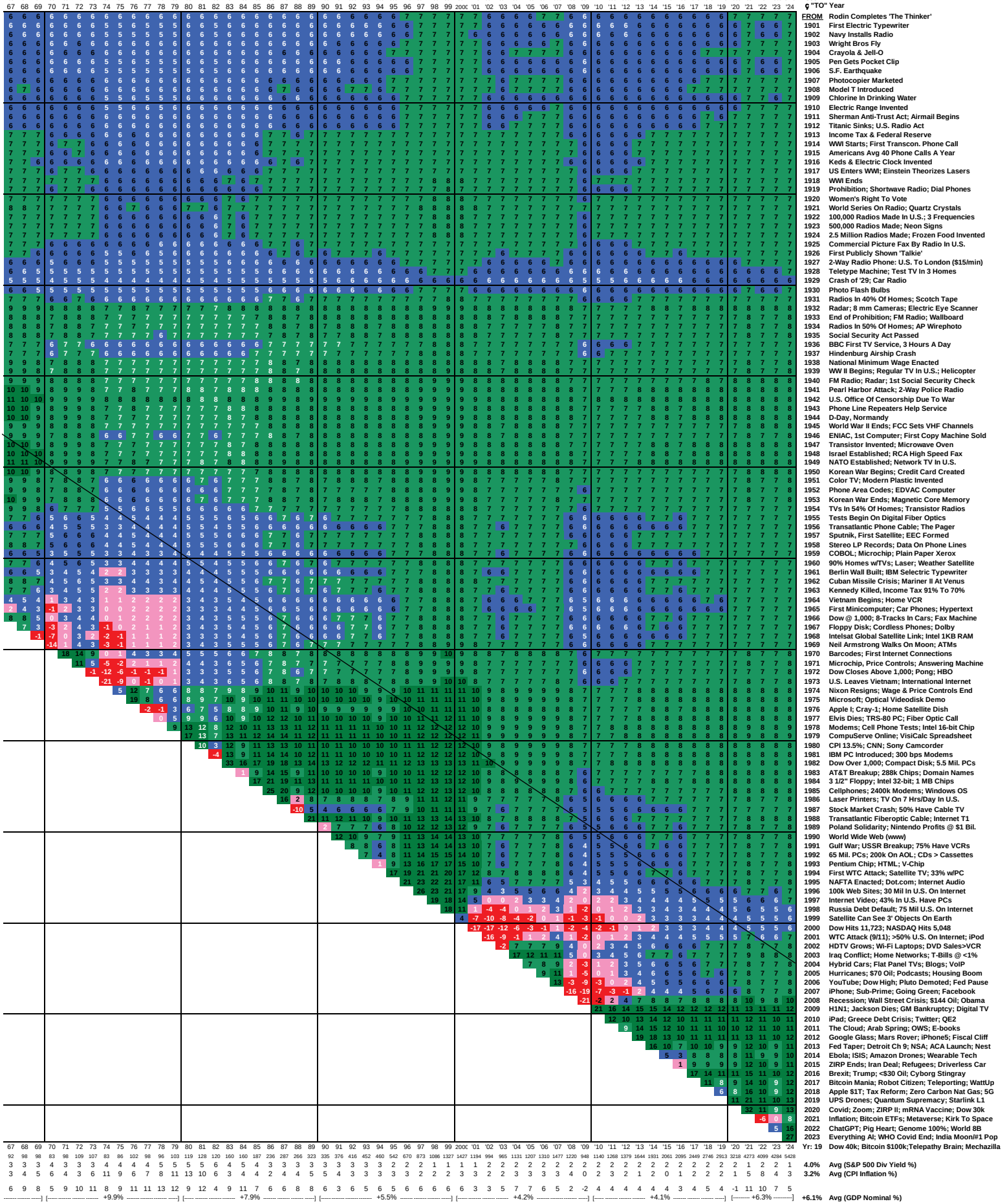
P/E Ratio
1899 = 1
♀"TO" Year
FROM Rodin Completes 'The Thinker'
1901 First Electric Typewriter
1902 Navy Installs Radio
1903 Wright Bros Fly
1904 Crayola & Jell-O
1905 Pen Gets Pocket Clip
1906 S.F. Earthquake
1907 Photocopier Marketed
1908 Model T Introduced
1909 Chlorine In Drinking Water
1910 Electric Range Invented
1911 Sherman Anti-Trust Act; Airmail Begins
1912 Titanic Sinks; U.S. Radio Act
1913 Income Tax & Federal Reserve
1914 WWI Starts; First Transcon. Phone Call
1915 Americans Avg 40 Phone Calls A Year
1916 Keds & Electric Clock Invented
1917 US Enters WWI; Einstein Theorizes Lasers
1918 WWI Ends
1919 Prohibition; Shortwave Radio; Dial Phones
1920 Women's Right To Vote
1921 World Series On Radio; Quartz Crystals
1922 100,000 Radios Made In U.S.; 3 Frequencies
1923 500,000 Radios Made; Neon Signs
1924 2.5 Million Radios Made; Frozen Food Invented
1925 Commercial Picture Fax By Radio In U.S.
1926 First Publicly Shown 'Talkie'
1927 2-Way Radio Phone: U.S. To London ($15/min)
1928 Teletype Machine; Test TV In 3 Homes
1929 Crash of '29; Car Radio
1930 Photo Flash Bulbs
1931 Radios In 40% Of Homes; Scotch Tape
1932 Radar; 8 mm Cameras; Electric Eye Scanner
1933 End of Prohibition; FM Radio; Wallboard
1934 Radios In 50% Of Homes; AP Wirephoto
1935 Social Security Act Passed
1936 BBC First TV Service, 3 Hours A Day
1937 Hindenburg Airship Crash
1938 National Minimum Wage Enacted
1939 WW II Begins; Regular TV In U.S.; Helicopter
1940 FM Radio; Radar; 1st Social Security Check
1941 Pearl Harbor Attack; 2-Way Police Radio
1942 U.S. Office Of Censorship Due To War
1943 Phone Line Repeaters Help Service
1944 D-Day, Normandy
1945 World War II Ends; FCC Sets VHF Channels
1946 ENIAC, 1st Computer; First Copy Machine Sold
1947 Transistor Invented; Microwave Oven
1948 Israel Established; RCA High Speed Fax
1949 NATO Established; Network TV In U.S.
1950 Korean War Begins; Credit Card Created
1951 Color TV; Modern Plastic Invented
1952 Phone Area Codes; EDVAC Computer
1953 Korean War Ends; Magnetic Core Memory
1954 TVs In 54% Of Homes; Transistor Radios
1955 Tests Begin On Digital Fiber Optics
1956 Transatlantic Phone Cable; The Pager
1957 Sputnik, First Satellite; EEC Formed
1958 Stereo LP Records; Data On Phone Lines
1959 COBOL; Microchip; Plain Paper Xerox
1960 90% Homes w/TVs; Laser; Weather Satellite
1961 Berlin Wall Built; IBM Selectric Typewriter
1962 Cuban Missile Crisis; Mariner II At Venus
1963 Kennedy Killed, Income Tax 91% To 70%
1964 Vietnam Begins; Home VCR
1965 First Minicomputer; Car Phones; Hypertext
1966 Dow @ 1,000; 8-Tracks In Cars; Fax Machine
1967 Floppy Disk; Cordless Phones; Dolby
1968 Intelsat Global Satellite Link; Intel 1KB RAM
1969 Neil Armstrong Walks On Moon; ATMs
1970 Barcodes; First Internet Connections
1971 Microchip, Price Controls; Answering Machine
1972 Dow Closes Above 1,000; Pong; HBO
1973 U.S. Leaves Vietnam; International Internet
1974 Nixon Resigns; Wage & Price Controls End
1975 Microsoft; Optical Videodisk Demo
1976 Apple I; Cray-1; Home Satellite Dish
1977 Elvis Dies; TRS-80 PC; Fiber Optic Call
1978 Modems; Cell Phone Tests; Intel 16-bit Chip
1979 CompuServe Online; VisiCalc Spreadsheet
1980 CPI 13.5%; CNN; Sony Camcorder
1981 IBM PC Introduced; 300 bps Modems
1982 Dow Over 1,000; Compact Disk; 5.5 Mil. PCs
1983 AT&T Breakup; 288k Chips; Domain Names
1984 3 1/2" Floppy; Intel 32-bit; 1 MB Chips
1985 Cellphones; 2400k Modems; Windows OS
1986 Laser Printers; TV On 7 Hrs/Day In U.S.
1987 Stock Market Crash; 50% Have Cable TV
1988 Transatlantic Fiberoptic Cable; Internet T1
1989 Poland Solidarity; Nintendo Profits @ $1 Bil.
1990 World Wide Web (www)
1991 Gulf War; USSR Breakup; 75% Have VCRs
1992 65 Mil. PCs; 200k On AOL; CDs > Cassettes
1993 Pentium Chip; HTML; V-Chip
1994 First WTC Attack; Satellite TV; 33% w/PC
1995 NAFTA Enacted; Dot.com; Internet Audio
1996 100k Web Sites; 30 Mil In U.S. On Internet
1997 Internet Video; 43% In U.S. Have PCs
1998 Russia Debt Default; 75 Mil U.S. On Internet
1999 Satellite Can See 3' Objects On Earth
2000 Dow Hits 11,723; NASDAQ Hits 5,048
2001 WTC Attack (9/11); >50% U.S. On Internet; iPod
2002 HDTV Grows; Wi-Fi Laptops; DVD Sales>VCR
2003 Iraq Conflict; Home Networks; T-Bills @ <1%
2004 Hybrid Cars; Flat Panel TVs; Blogs; VoIP
2005 Hurricanes; $70 Oil; Podcasts; Housing Boom
2006 YouTube; Dow High; Pluto Demoted; Fed Pause
2007 iPhone; Sub-Prime; Going Green; Facebook
2008 Recession; Wall Street Crisis; $144 Oil; Obama
2009 H1N1; Jackson Dies; GM Bankruptcy; Digital TV
2010 iPad; Greece Debt Crisis; Twitter; QE2
2011 The Cloud; Arab Spring; OWS; E-books
2012 Google Glass; Mars Rover; iPhone5; Fiscal Cliff
2013 Fed Taper; Detroit Ch 9; NSA; ACA Launch; Nest
2014 Ebola; ISIS; Amazon Drones; Wearable Tech
2015 ZIRP Ends; Iran Deal; Refugees; Driverless Car
2016 Brexit; Trump; <$30 Oil; Cyborg Stingray
2017 Bitcoin Mania; Robot Citizen; Teleporting; WattUp
2018 Apple $1T; Tax Reform; Zero Carbon Nat Gas; 5G
2019 UPS Drones; Quantum Supremacy; Starlink L1
2020 Covid; Zoom; ZIRP II; mRNA Vaccine; Dow 30k
2021 Inflation; Bitcoin ETFs; Metaverse; Kirk To Space
2022 ChatGPT; Pig Heart; Genome 100%; World 8B
2023 Everything AI; WHO Covid End; India Moon/#1 Pop
Yr: 19 Dow 40k; Bitcoin $100k;Telepathy Brain; Mechazilla
4.0% Avg (S&P 500 Div Yield %)
3.2% Avg (CPI Inflation %)
+9.9%
+7.9%
+5.5%
+4.2%
+4.1%
+6.3%
+6.1% Avg (GDP Nominal %)
+3.2%
+3.1%
+3.2%
+1.9%
+2.4%
+2.4%
+3.2% Avg (GDP Real %)