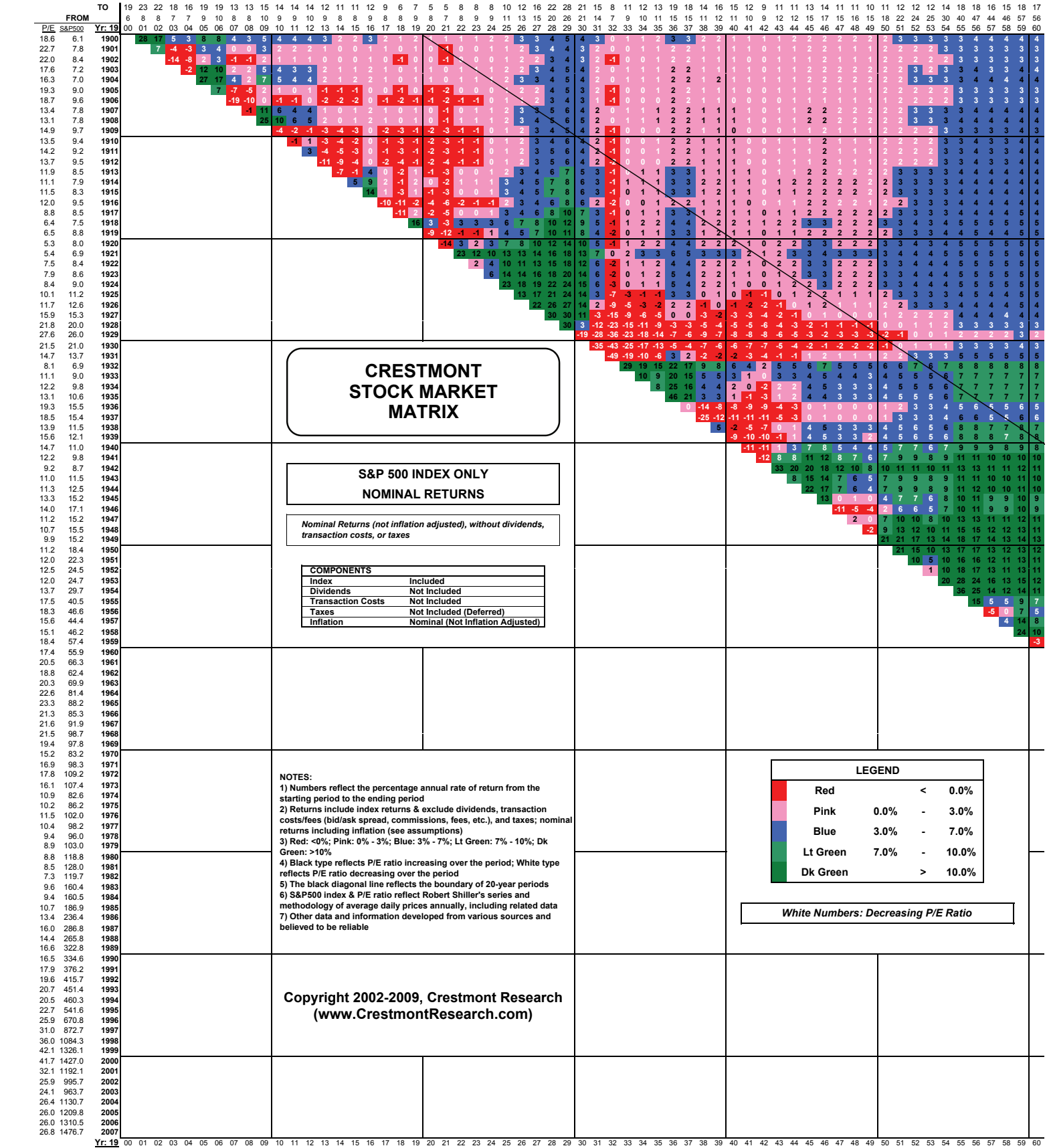
CRESTMONT
STOCK MARKET
MATRIX
S&P 500 INDEX ONLY
NOMINAL RETURNS
Nominal Returns (not inflation adjusted), without dividends, transaction costs, or taxes
COMPONENTS
Index Included
Dividends Not Included
Transaction Costs Not Included
Taxes Not Included (Deferred)
Inflation Nominal (Not Inflation Adjusted)
NOTES:
1) Numbers reflect the percentage annual rate of return from the starting period to the ending period
2) Returns include index returns & exclude dividends, transaction costs/fees (bid/ask spread, commissions, fees, etc.), and taxes; nominal returns including inflation (see assumptions)
3) Red: <0%; Pink: 0% - 3%; Blue: 3% - 7%; Lt Green: 7% - 10%; Dk 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&P500 index & P/E ratio reflect Robert Shiller's series and methodology of average daily prices annually, including related data
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%
Lt Green 7.0% - 10.0%
Dk Green > 10.0%
White Numbers: Decreasing P/E Ratio
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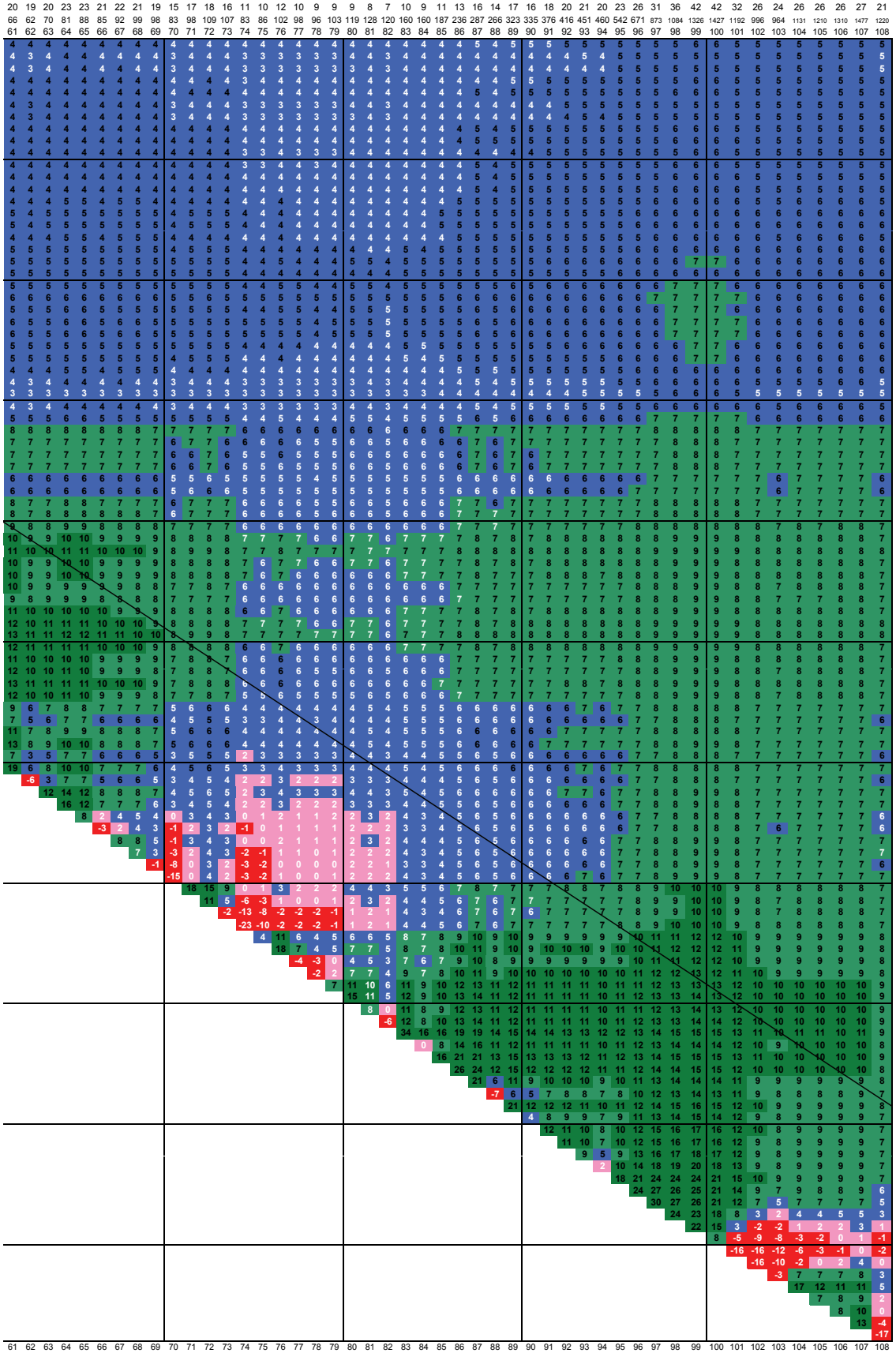

P/E Ratio	S&P 500 Index	←"TO" Year	FROM	
				Rodin Completes 'The Thinker'
			1901	First Electric Typewriter
			1902	Navy Installs Radio
			1903	Wright Bros Fly
			1904	Crayola & Jell-O
			1905	Pen Gets Pocket Clip
			1906	S.F. Earthquake
			1907	Photocopier Marketed
			1908	Model T Introduced
			1909	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	Regular TV Broadcasts In U.S.; Helicopter
			1940	World War II Begins; Radar Invented
			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

4.3%	Avg	
3.3%	Avg	
6.6%	Avg	+6.9% +10.0% +7.9% +5.4% +4.9%
3.5%	Avg	+4.4% +3.2% +3.0% +3.1% +2.4%