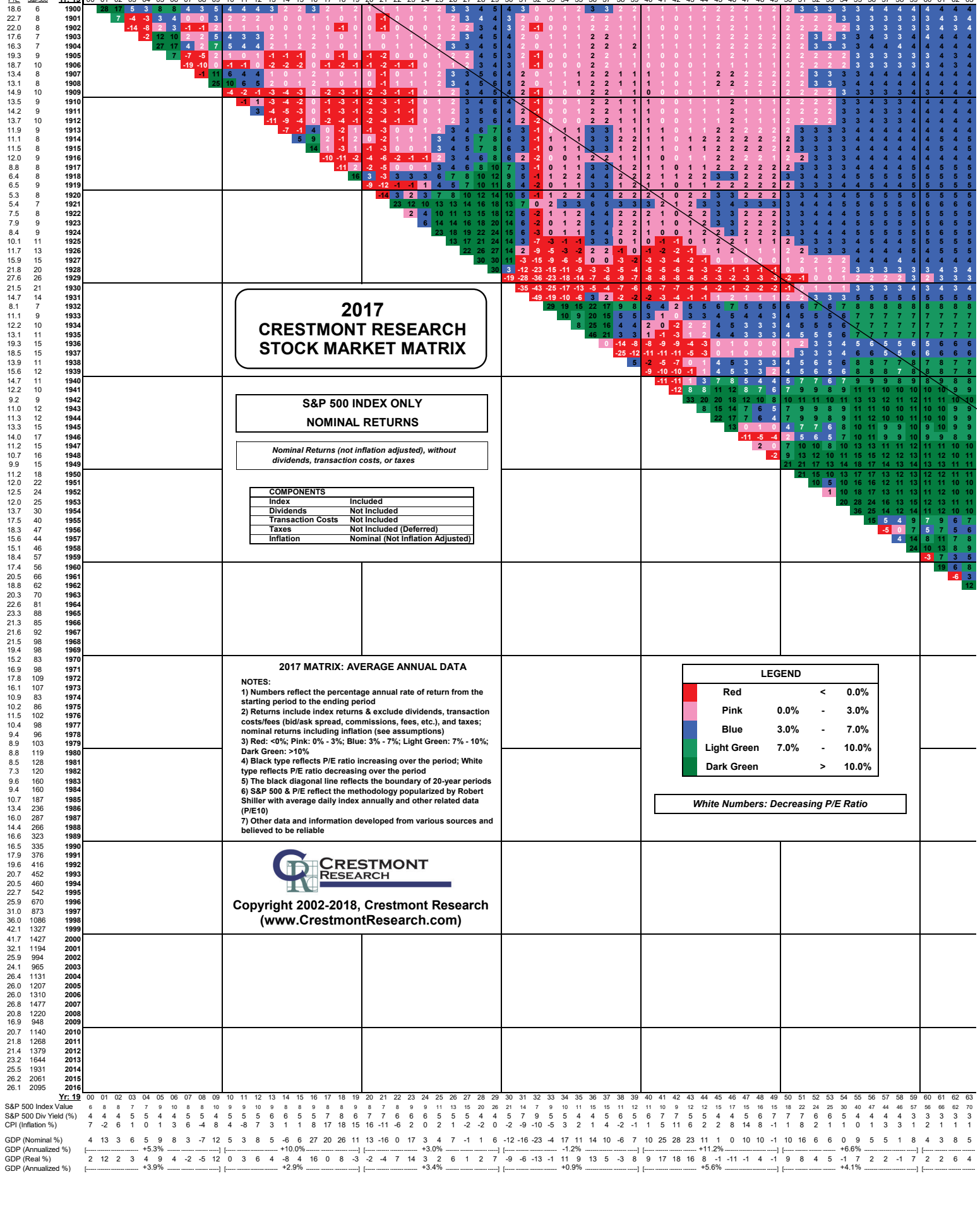
2017
CRESTMONT RESEARCH
STOCK MARKET MATRIX
S&P 500 INDEX ONLY
NOMINAL RETURNS
Nominal Returns (not inflation adjusted), without dividends, transaction costs, or taxes
COMPONENTS
Index Included
Dividends Not Included
Transaction Costs Not Included
Taxes Not Included (Deferred)
Inflation Nominal (Not Inflation Adjusted)
2017 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 & 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%; 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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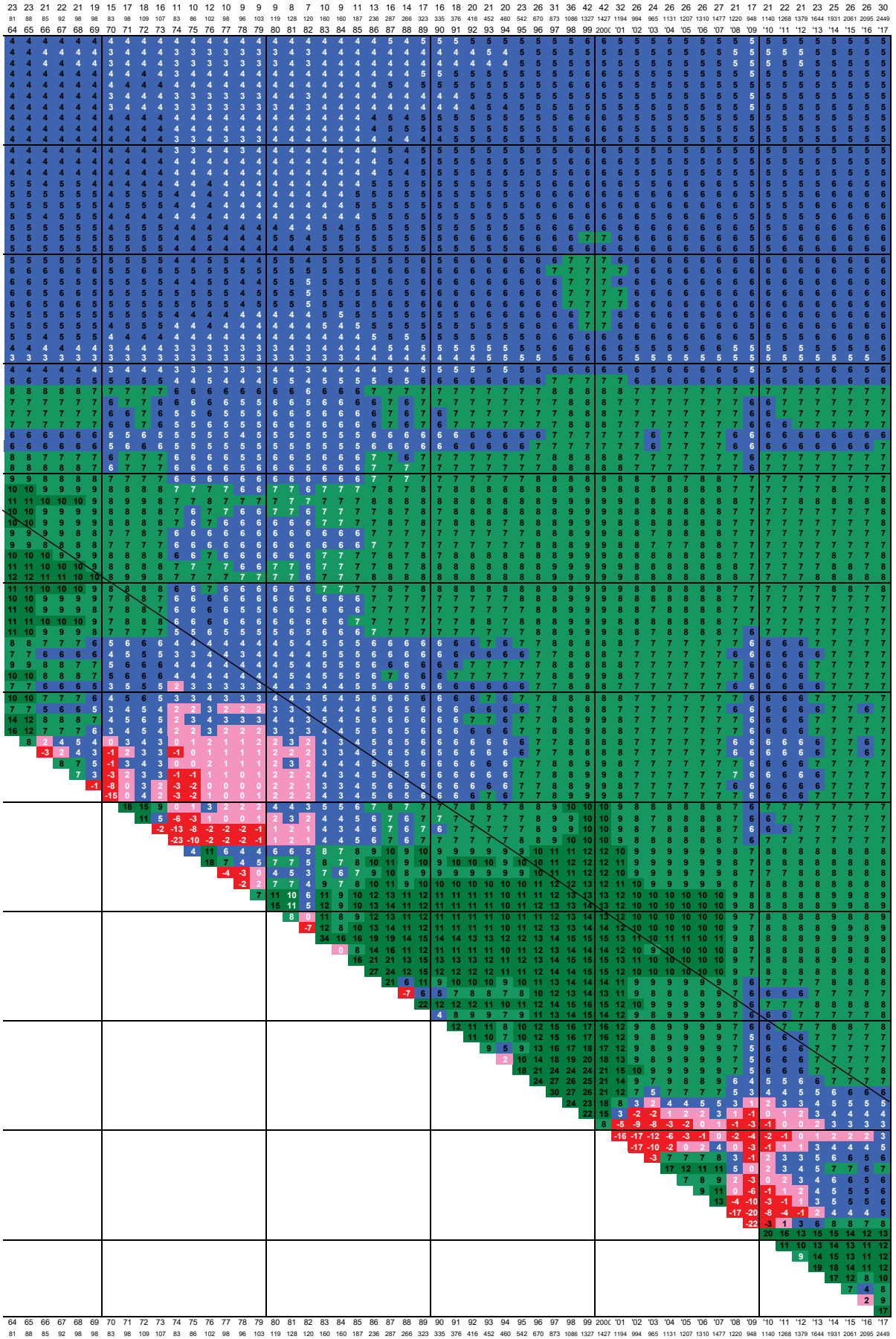

P/E Ratio	S&P 500 Index	←"TO" Year	FROM	
23	81	64		Rodin Completes 'The Thinker'
23	88	65	1901	First Electric Typewriter
21	85	66	1902	Navy Installs Radio
22	92	67	1903	Wright Bros Fly
21	98	68	1904	Crayola & Jell-O
19	98	69	1905	Pen Gets Pocket Clip
15	83	70	1906	S.F. Earthquake
17	98	71	1907	Photocopier Marketed
18	109	72	1908	Model T Introduced
16	107	73	1909	Chlorine In Drinking Water
11	83	74	1910	Electric Range Invented
10	86	75	1911	Sherman Anti-Trust Act; Airmail Begins
12	102	76	1912	Titanic Sinks; U.S. Radio Act
10	98	77	1913	Income Tax & Federal Reserve
9	96	78	1914	WWI Starts; First Transcon. Phone Call
9	103	79	1915	Americans Avg 40 Phone Calls A Year
9	119	80	1916	Keds & Electric Clock Invented
8	128	81	1917	US Enters WWI; Einstein Theorizes Lasers
7	120	82	1918	WWI Ends
10	160	83	1919	Prohibition; Shortwave Radio; Dial Phones
9	160	84	1920	Women's Right To Vote
11	187	85	1921	World Series On Radio; Quartz Crystals
13	236	86	1922	100,000 Radios Made In U.S.; 3 Frequencies
16	287	87	1923	500,000 Radios Made; Neon Signs
14	266	88	1924	2.5 Million Radios Made; Frozen Food Invented
17	323	89	1925	Commercial Picture Fax By Radio In U.S.
16	335	90	1926	First Publicly Shown 'Talkie'
18	376	91	1927	2-Way Radio Phone: U.S. To London ($15/min)
20	416	92	1928	Teletype Machine; Test TV In 3 Homes
21	452	93	1929	Crash of '29; Car Radio
20	460	94	1930	Photo Flash Bulbs
23	542	95	1931	Radios In 40% Of Homes; Scotch Tape
26	670	96	1932	Radar; 8 mm Cameras; Electric Eye Scanner
31	873	97	1933	End of Prohibition; FM Radio; Wallboard
36	1086	98	1934	Radios In 50% Of Homes; AP Wirephoto
42	1327	99	1935	Social Security Act Passed
42	1427	200(	1936	BBC First TV Service, 3 Hours A Day
32	1194	'01	1937	Hindenburg Airship Crash
26	994	'02	1938	National Minimum Wage Enacted
24	965	'03	1939	WW II Begins; Regular TV In U.S.; Helicopter
26	1131	'04	1940	FM Radio; Radar; 1st Social Security Check
26	1207	'05	1941	Pearl Harbor Attack; 2-Way Police Radio
26	1310	'06	1942	U.S. Office Of Censorship Due To War
27	1477	'07	1943	Phone Line Repeaters Help Service
21	1220	'08	1944	D-Day, Normandy
17	948	'09	1945	World War II Ends; FCC Sets VHF Channels
21	1140	'10	1946	ENIAC, 1st Computer; First Copy Machine Sold
22	1268	'11	1947	Transistor Invented; Microwave Oven
21	1379	'12	1948	Israel Established; RCA High Speed Fax
23	1644	'13	1949	NATO Established; Network TV In U.S.
25	1931	'14	1950	Korean War Begins; Credit Card Created
26	2061	'15	1951	Color TV; Modern Plastic Invented
30	2095	'16	1952	Phone Area Codes; EDVAC Computer
30	2449	'17	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

4.1%	Avg (S&P 500 Div Yield %)
3.1%	Avg (CPI Inflation %)
6.3%	Avg (GDP Nominal %)
3.3%	Avg (GDP Real %)