

## Master of Liberal Arts 60643

### Economic Controversies

#### Homework Assignment #3 (2018)

DUE: February 6

INSTRUCTIONS: Oh no, not a Harvey Test! I want you to have a look and see how volatile these numbers are relative to one another. For each column, calculate the percentage change from one year to the next and then find the average of the absolute values of these numbers (otherwise positive changes just cancel out negative changes and make the data series look stable). To calculate percentage change, do this for **real S&P** 1980-1, for example:  $(134-139)/139$ . You may multiply this by 100 to make it look like a percent or leave it as is. It doesn't matter as long as you are consistent. Show each calculation and the averages and comment on the relative volatilities.

Year	real S&P	GDP	Invest
1980	139	5,834.0	715.2
1981	134	5,982.1	779.6
1982	119	5,865.9	670.3
1983	155	6,130.9	732.8
1984	149	6,571.5	948.7
1985	166	6,843.4	939.8
1986	207	7,080.5	933.5
1987	243	7,307.0	962.2
1988	215	7,607.4	984.9
1989	250	7,879.2	1,024.4
1990	246	8,027.1	989.9
1991	265	8,008.3	909.4
1992	285	8,280.0	983.1
1993	303	8,516.2	1,070.9
1994	301	8,863.1	1,216.4
1995	344	9,086.0	1,254.3
1996	412	9,425.8	1,365.3
1997	527	9,845.9	1,535.2
1998	645	10,274.7	1,688.9
1999	765	10,770.7	1,837.6
2000	806	11,216.4	1,963.1
2001	651	11,337.5	1,825.2
2002	534	11,543.1	1,800.4
2003	503	11,836.4	1,870.1
2004	577	12,246.9	2,058.2
2005	594	12,623.0	2,172.3
2006	627	12,958.5	2,231.8
2007	688	13,206.4	2,159.5
2008	545	13,161.9	1,939.8
2009	422	12,703.1	1,454.2
2010	506	13,088.0	1,714.9
2011	542	13,313.4	1,795.2

Real S&P is S&P 500 Index average daily close deflated by CPI 100 = 1982-4 ([www.economagic.com](http://www.economagic.com)).

GDP and Invest billions of chained 2005 dollars and as defined in Homework Assignment #1 (*Economic Report of the President*).