WHAT'S AVERAGE: THE AVERAGE OF THE YEARS vs. THE COMPOUNDED AVERAGE

(Compounded Returns Are Adversely Affected By Negative Years And Volatility)

SIMPLE ANNUAL CHANGES									AVERAGE			
	'00	'01	'02	'03	'04	'05	'06	'07	'08	'09		
1900	7%	-9%	0%	-24%	42%	38%	-2%	-38%	47%	15%		
1910	-18%	0%	8%	-10%	-31%	82%	-4%	-22%	11%	30%		
1920	-33%	13%	22%	-3%	26%	30%	0%	29%	48%	-17%		
1930	-34%	-53%	-23%	67%	4%	39%	25%	-33%	28%	-3%		
1940	-13%	-15%	8%	14%	12%	27%	-8%	2%	-2%	13%		
1950	18%	14%	8%	-4%	44%	21%	2%	-13%	34%	16%	\geq	Avg = (7.5%)
1960	-9%	19%	-11%	17%	15%	11%	-19%	15%	4%	-15%		
1970	5%	6%	15%	-17%	-28%	38%	18%	-17%	-3%	4%		
1980	15%	-9%	20%	20%	-4%	28%	23%	2%	12%	27%		
1990	-4%	20%	4%	14%	2%	33%	26%	23%	16%	25%		
2000	-6%	-7%	-17%	25%	3%	-1%	16%	6%	-34%	19%		
2010	11%	6%	7%	26%	8%	-2%	13%	25%	-6%	22%		
2020	7%	19%	-9%	14%	13%						\mathcal{I}	

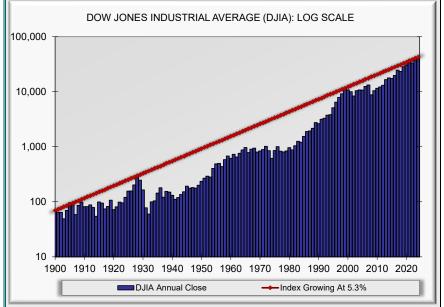
COMPOUNDED ANNUAL CHANGE

 Start
 66.08

 End
 42,544.22

 Years
 125

 $\frac{\text{AVERAGE}}{\text{Avg} = 5.3\%}$



	CASE A	CASE B	CASE C	CASE D	CASE E	CASE F
Year 1	5.0%	4.0%	9.0%	15.0%	25.0%	30.0%
Year 2	5.0%	5.0%	5.0%	-10.0%	-15.0%	-25.0%
Year 3	5.0%	6.0%	1.0%	10.0%	5.0%	10.0%
Simple Avg. Return	5.000%	5.000%	5.000%	5.000%	5.000%	5.000%
Compounded Return	5.000%	4.997%	4.949%	4.419%	3.714%	2.361%

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