

Figure 7.17: Secular Bull Market Composite

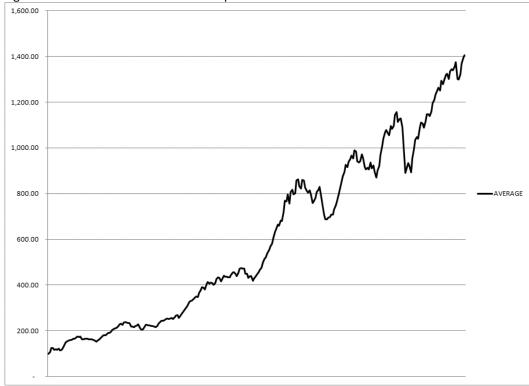
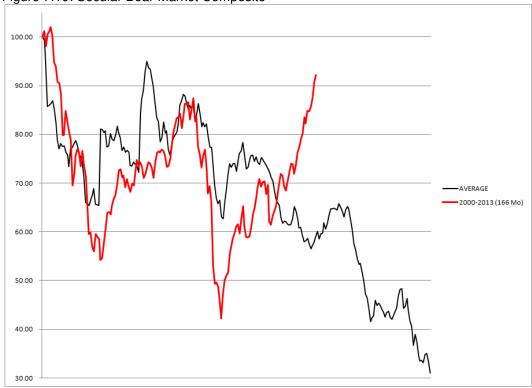






Figure 7.19: Secular Bear Market Composite





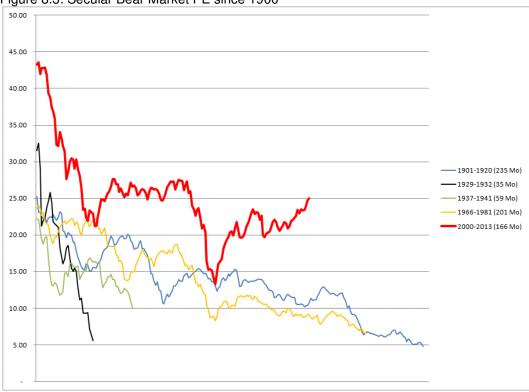
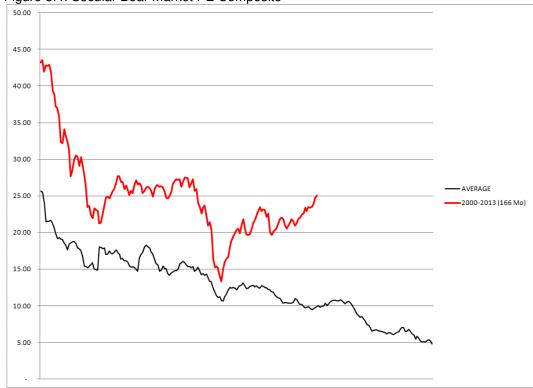


Figure 8.4: Secular Bear Market PE Composite





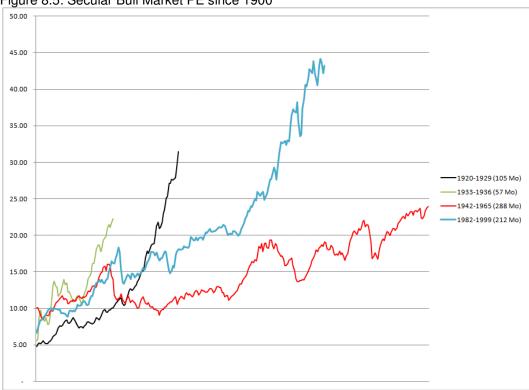


Figure 8.6: Secular Bull Market PE Composite

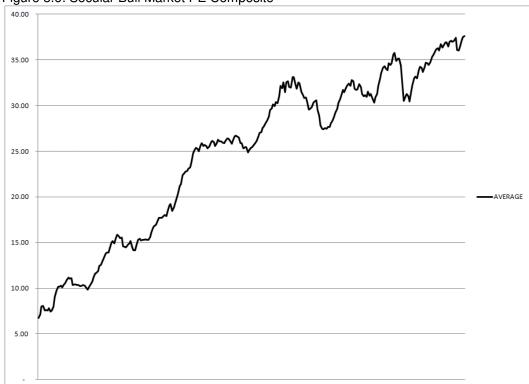


Figure 8.18: 20-Year Annualized Return of S&P 500 Price

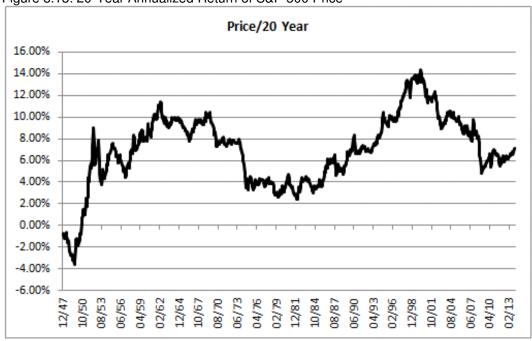


Figure 8.19: 20-Year Annualized Total Return for S&P 500



Figure 8.20: 20-Year Annualized Total Return for S&P 500 Inflation Adjusted

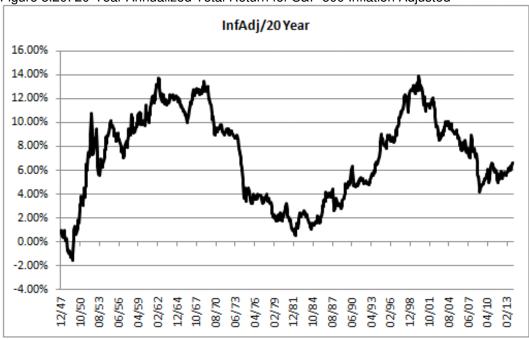


Figure 8.22: Distribution of Inflation Adjusted 20-Year Returns by Quartile

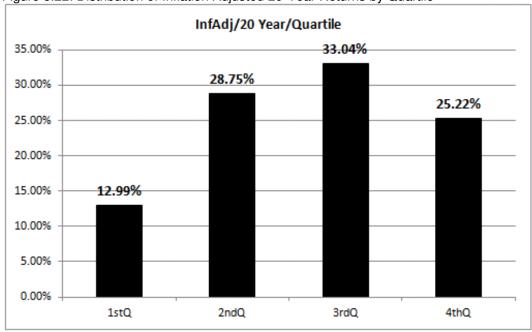


Figure 8.23: Distribution of Inflation Adjusted 20-Year Returns by Decile

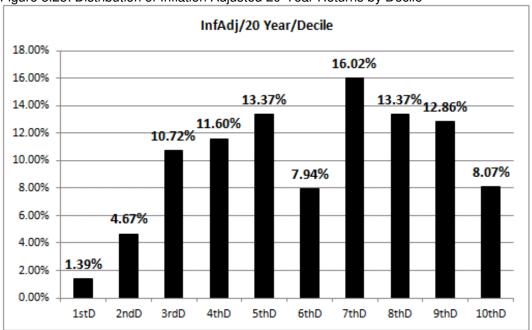


Figure 8.24: Distribution of Inflation Adjusted 20-Year Returns by Standard Deviation

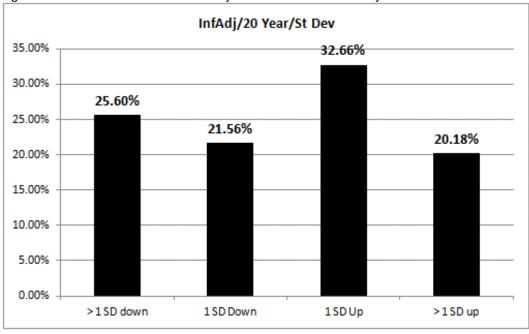


Figure 8.25: Distribution of Inflation Adjusted 20-Year Returns by Percentage Ranges

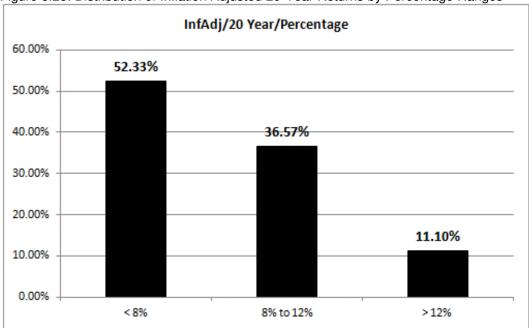


Figure 11.8: S&P 500 Distribution of Drawdowns Greater than 15 Percent

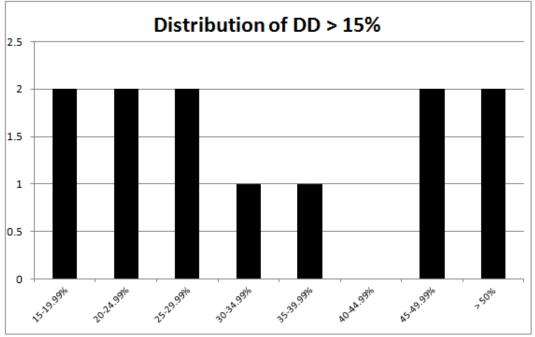


Figure 11.9: S&P 500 Distribution of All Drawdowns

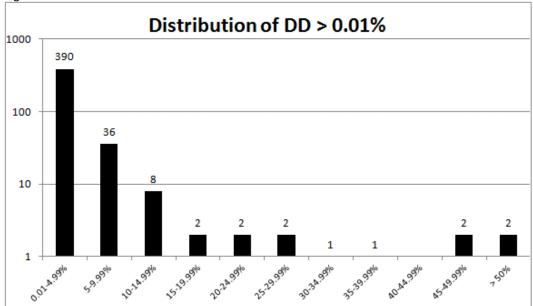


Figure 11.13: Dow Industrials Distribution of Drawdowns Greater than 15 Percent

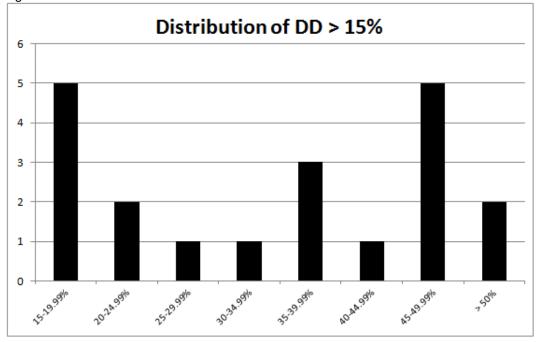


Figure 11.14: Dow Industrials Distribution of All Drawdowns

Table 10.9: Trend Analysis on 109 Market Indices

rable 10.9. Frend Ar	Trendir			109		endiness T		iuic				
	Trending	ess	Avg.	Up Trendi	ness	Wh	ile in Tre		1	rendless		
	Average I		U/D	WtdAvg F			Dn/Tot		Up		Trendless	Ra
AMEX Compsite AMEX Oil Index	80.50 75.89	35 51	3.55 2.20	285.64 167.09	19 66	77.04% 68.28%	22.96% 31.72%	20 67	62.01% 51.82%	18.48% 24.07%	19.50% 24.11%	
AMEX Pharmaceutical Index	81.89	32	2.27	185.69	60	68.79%	31.21%	66		25.56%	18.11%	
Argentina MerVal	54.77	90	3.02	165.22	68	71.59%	28.41%	52	39.21%	15.56%	45.23%	
Australia All Ordinaries	89.68	7	2.68	240.02	37	72.24%	27.76%	47		24.89%	10.32%	
Austria ATX	78.69	40	2.39	188.16 223.91	59	69.22%	30.78%	65		24.22%	21.31%	
Belgium BEL-20 Brazil Bovespa	81.50 55.54	33 89	2.75 3.13	223.91 173.59	47 63	72.90% 69.53%	27.10% 30.47%	43 62	59.41% 38.62%	22.08% 16.92%	18.50% 44.46%	
Chile IGPA General Index	88.58	10	1.73	153.57	74	63.27%	36.73%	78	56.04%	32.54%	11.42%	
Chile IPSA	78.82	39	1.61	126.53	80	60.81%	39.19%	81	47.93%	30.89%	21.18%	
China Shanghai Composite	64.20	83	1.13	72.73	90	52.59%	47.41%	89	33.76%	30.44%	35.80%	
CRB Index	92.54	3	1.28	118.90	82	55.92%	44.08%	84	51.75%	40.79%	7.46%	
Czech Republic PX	72.22	64	1.95	141.15	76	65.54%	34.46%	74	47.33%	24.89%	27.78%	
Denmark Copenhagen 20	76.61	48	3.65	279.53	22	76.21%	23.79%	25	58.38%	18.23%	23.39%	
DJ Wilshire US Small Cap	68.87	76	5.61	386.67	7	79.96%	20.04%	9	55.07%	13.80%	31.13%	
Dow Industrials 1885	86.78	13	2.67	231.67	42	72.01%	27.99%	49			13.22%	
Dow Jones Composite	79.09	38	4.85	383.89	9	80.81% 73.18%	19.19% 26.82%	7			20.91%	
Dow Jones Euro Stoxx Dow Jones Euro Stoxx 50	73.11 69.84	61 71	3.27	238.73 228.60	38 44	71.38%	28.62%	42 53	53.50% 49.85%	19.61%	26.89% 30.16%	
Dow Jones Stoxx	78.40	44	3.53	276.85	25	76.13%	23.87%	27			21.60%	
Dow Jones Transport	72.09	65	3.28	236.77	39	73.28%	26.72%	41			27.91%	
Dow Jones Utilities	84.64	17	2.73	230.86	43	72.39%	27.61%	46			15.36%	
Dow Jones Wilshire 5000 Composite Index	90.15	4	3.56	320.80	14	77.52%	22.48%	16	69.89%	20.27%	9.85%	
Dow Jones Wilshire REIT Total Return Index	62.23	85	4.93	306.79	16	77.60%	22.40%	15	48.29%	13.94%	37.77%	
EURONEXT 100	74.07	56	5.19	384.57	8	80.97%	19.03%	5	59.97%	14.09%	25.93%	
inland HSE General Index	66.65	78	2.60	173.30	64	70.95%	29.05%	55		19.36%	33.35%	
rance CAC 40	71.27	67	2.80	199.42	56	72.09%	27.91%	48	51.38%	19.89%	28.73%	
Germany DAX	66.30	79	7.33	486.03	10	79.48%	20.52%	10			33.70%	
Global Dow Gold and Silver Mining	80.77 44.47	34 93	3.56 0.84	287.48 37.24	18 94	77.03% 47.69%	22.97% 52.31%	21 93	62.22% 21.21%		19.23% 55.53%	
Gold and Silver Mining Gold Base Price Handy & Harman	50.36	93 91	1.27	63.73	94	47.69% 55.88%	52.31% 44.12%	93 85	21.21%	23.26%	55.53% 49.64%	
Sold Bugs (AMEX)	38.59	94	0.94	36.11	95	51.20%	48.80%	92	19.76%	18.83%	61.41%	
Gold Mining Stocks	49.96	92	1.00	49.89	92	51.42%	48.58%	90	25.69%		50.04%	
Greece General Share	63.90	84	1.34	85.83	88	55.71%	44.29%	87	35.60%	28.30%	36.10%	
Hanoi SE Index	61.63	86	0.61	37.41	93	36.46%	63.54%	95	22.47%		38.37%	
Hong Kong Hang Seng	71.20	69	2.92	207.60	50	72.85%	27.15%	44			28.80%	
bex 35	71.25	68	2.70	192.72	58	70.49%	29.51%	57	50.23%		28.75%	
ndia BSE 30	61.12	87	2.63	160.88	69	70.43%	29.57%	58	43.05%	18.07%	38.88%	
ndonesia Jakarta Composite	73.54	57	2.37	174.22	62	69.23%		64	50.92% 60.07%	22.63%	26.46%	
srael TA-100 taly FTSE MIB Index	78.65 57.89	41 88	4.19 2.37	329.88 137.35	10 78	76.38% 64.62%	23.62% 35.38%	23 77	37.41%	18.58% 20.48%	21.35% 42.11%	
anan Nikkei 225	76.51	50	2.26	173.12	65	67.88%	32.12%	69	51.94%	24.57%	23,49%	ı
ohannesburg All Shares	77.14	47	5.40	416.53	4	82.33%	17.67%	3	63.51%		22.86%	
Major Market Index	82.88	25	3.93	325.39	12	78.94%	21.06%	12			17.12%	
Malaysia KLSE Composite	82.36	27	2.37	194.88	57	69.73%	30.27%	61	57.43%	24.93%	17.64%	
Mexico IPC	70.92	70	4.01	284.53	20	77.13%	22.87%	19	54.70%	16.22%	29.08%	
Morgan Stanley Cyclical Index	71.48	66	2.83	202.19	53	70.61%	29.39%	56			28.52%	
MSCI EAFE	90.00	5	2.30	207.44	51	69.53%	30.47%	63	62.58%		10.00%	
MSCI EM	83.37	23	2.40	200.08	55	70.27%	29.73%	59	58.59%	24.79%	16.63%	
NASDAQ 100 NASDAQ Composite	67.99 82.11	77 29	3.79 2.72	257.97 223.16	32 48	77.39% 72.79%	22.61% 27.21%	17 45	52.62% 59.77%		32.01% 17.89%	
NASDAU Composite Netherlands AEX General	78.32	45	2.72	223.16	48	73.42%	26.58%	45			21.68%	
Norway Oslo Stock Exchange All Share Composit	78.24	46	4.14	323.58	13	80.14%	19.86%	8			21.76%	
Norway Oslo Stock Exchange OBX Top 25	64.63	82	6.02	389.30	6	85.15%	14.85%	1		9.60%	35.37%	
NYSE Composite	89.78	6	2.97	266.29	30	74.53%	25.47%	36	66.91%	22.87%	10.22%	
Pakistan Karachi 100	66.30	80	2.50	165.90	67	67.29%	32.71%	70	44.61%	21.68%	33.70%	
Peru Lima General	76.51	49	1.84	141.09	77	64.63%	35.37%	76	49.45%	27.06%	23.49%	
Philippines PSE Composite	73.46	59	2.00	147.19	75	64.82%	35.18%	75	47.62%	25.84%	26.54%	
Russell 1000	85.00	16	4.91	417.32	3	81.24%	18.76%	4	69.06%	15.94%	15.00%	
Russell 1000 Growth	75.41	55	3.59	270.70	26	77.24%	22.76%	18		17.17%	24.59%	
Russell 1000 Value	75.49 83.19	54 24	2.99	225.73 208.67	46 49	74.40% 71.12%	25.60% 28.88%	37 54	56.16% 59.16%	19.33% 24.03%	24.51%	
Russell 2000 Growth Index	81.96	30	2.85	233.45	49	73.69%	26.31%	38			16.81% 18.04%	
Russell 2000 Value Index	87.80	12	4.91	431.39	2	82.70%	17.30%	2		15.19%	12.20%	
Russell 3000	85.41	15	4.73	403.78	5	80.82%	19.18%	6	69.03%	16.38%	14.59%	
&P 100 Index	84.58	18	3.07	259.68	31	74.62%	25.38%	35	63.12%	21.46%	15.42%	
&P 1500 INDEX	82.67	26	3.99	329.51	11	77.72%	22.28%	13	64.25%	18.42%	17.33%	
8&P 400 Index	75.77	52	3.69	279.53	23	76.89%	23.11%	22	58.26%	17.51%	24.23%	
&P 500 Index	89.55	9	2.59	232.19	41	71.95%	28.05%	50			10.45%	
&P 600 Index	80.06	36	3.20	256.05	34	75.04%	24.96%	32			19.94%	
SEP COMP 1500	65.51	81	2.80	183.67	61	71.77%	28.23%	51	47.02%	18.50%	34.49%	
S&P COMP 1500 S&P Equal Weight	72.91 78.59	62 42	4.33 3.40	315.54 267.59	15 29	79.22% 76.19%	20.78%	11 26	57.76% 59.87%	15.15% 18.72%	27.09% 21.41%	
S&P Equal Weight S&P MIDCAP INDEX	83.48	22	3.40	281.70	29	76.11%	23.81%	20	63.53%		16.52%	
S&P/TSX 60 CAPPED INDEX	81.91	31	3.59	293.72	17	77.70%	22.30%	14			18.09%	
&P/TSX 60 INDEX	79.14	37	3.18	251.45	35	75.66%	24.34%	31	59.87%		20.86%	
&P/TSX Composite	88.56	11	2.81		36		26.52%	39		23.49%		
Silver - Handy & Harmon base price	69.25	74	1.27	88.15	87	55.85%	44.15%	86	38.68%	30.57%	30.75%	
Singapore Straits Times	73.25	60	1.78		79	62.55%	37.45%	80		27.43%		
Slovakia SAX	89.64	72	1.06		86	51.39%		91		43.58%		
South Korea Seoul Composite	69.03	75	1.78		81		36.77%	79		25.38%		
Spain Madrid General Sri Lanka All Share	78.51	43		158.68	70 83		33.81%	73 82		26.54%		
Gri Lanka All Share Swedish OMX 30	83.94 73.47	21 58		108.28 268.09	28				47.22% 55.91%	36.71% 17.55%		
wedish OMX 30 Swiss Franc Exchange Rate	94.02				28 89				44.26%	49.76%	5,98%	í
Switzerland Swiss Market	82.20	28	3.29		27	74.87%	25.13%	34	61.54%	20.66%	17.80%	
aiwan Taiwan Weighted	69.32	73	2.26		72		31.92%	68	47.19%	22.13%	30.68%	
Thailand SET	72.78	63	2.16		71	66.92%	33.08%	71	48.70%	24.08%		
urkey ISE National-100	35.45	95	5.71	202.58	52	76.34%	23.66%		27.06%	8.39%	64.55%	
Inited Kingdom FTSE 100	84.04	20	3.05		33		25.01%	33		21.01%		
JS Dollar Index	92.87	2	1.13		84					43.53%		
/alue Line Index (Arith)		14	3.22						65.67%			
/alue Line Index (Geometric)	84.58				54		30.10%	60	59.11%	25.46%	15.42%	
/enezuela IBC	75.62	53	2.06		73		33.35%	72		25.22%		
/iet Nam Index	69.37	72	1.27	88.30	86	50.17%	43.83%	83	38.97%	30.40%	30.63%	f
Statistics												
lean	75,28		3.01	228.23		70.81%	29.19%		53 53%	21.47%	25.01%	
vg Deviation	8.65		0.95			6.57%	6.57%		8.66%			
vg Deviation ledian	76.61			228.54			27.41%			20.13%		
linimum	35.45		0.61				14.85%		19.76%			
laximum	94.02			486.03			63.54%			43.58%		
igma	11.46		1.26			9.05%	9.05%		11.38%			
eometric Mean	74.25		2.73				28.01%			20.75%		
armonic Mean	73.01		2.40				26.98%			20.08%		
urtosis	1.78		1.02			221.47%				303.75%		
kewness	-1.12		0.66			-139.61%				135.92%		
Frimmed Mean - 20%	76.43			226.12			27.99%			20.82%		

Table 11.2: S&P 500 Drawdown Decline

	DRAWDOWN DECLINE												
	vdown inge	Average Max Drawdown	Average Days in Decline	Average Months in Decline	Total Days in Decline	Total Months in Decline	Percentage of time spent in Decline						
-100%	-20%	-40.88%	359	17.07	3,585	171	16.59%						
-15%	-19.99%	-19.63%	47	2.21	93	4	0.43%						
-10%	-14.99%	-11.54%	102	4.84	813	39	3.76%						
-5%	-9.99%	-6.97%	23	1.10	830	40	3.84%						
-0.01%	-4.99%	-1.19%	4	0.19	1,588	76	7.35%						
All	DDs	-2.82%	15	0.74	6,909	329	31.98%						

Table 11.3: S&P 500 Drawdown Recovery

	The sair con Brandom House												
	DRAWDOWN RECOVERY												
	vdown inge	Average Average Gain to Days to Recovery Recover		Average Months to Recover	Total Days in Recovery	Total Months in Recovery	Percentage of time spent in Recovery						
-100%	-20%	69.14%	1,081	51.48	10,811	514.81	50.04%						
-15%	-19.99%	24.42%	72	3.40	143	6.81	0.66%						
-10%	-14.99%	13.04%	53	2.52	424	20.19	1.96%						
-5%	-9.99%	7.49%	31	1.47	1,110	52.86	5.14%						
-0.01%	-4.99%	1.21%	3	0.14	1,149	54.71	5.32%						
All	DDs	2.90%	31	1.46	13,637	649.38	63.12%						

Table 11.4: S&P 500 Drawdown Duration

		DR	AWDOWN [DURATION			
		Average	Average	Total	Total	Percentage	
Draw	vdown	Duration of	Duration of	Duration of	Duration of	of time	
Range		Drawdown	Drawdown	Drawdown	Drawdown	spent in	
Ū		(Days)	(Months)	(Days)	(Months)	Drawdown	
-100%	-20%	1,440	68.55	14,396	685.52	66.63%	
-15%	-19.99%	118	5.62	236	11.24	1.09%	
-10%	-14.99%	155	7.36	1,237	58.90	5.73%	
-5%	-9.99%	54	2.57	1,940	92.38	8.98%	
-0.01%	-4.99%	7	0.33	2,737	130.33	12.67%	
All	DDs	46	2.19	20,546	978.38	95.10%	

Table 11.10: S&P 500 Bear Markets since 1928

Table 11.10. Gat 300 Beat Markets since 1320												
			Bear I	Markets in S	&P 500 from	12/30/192	27 to 12/31/	2013				
Largest to Smallest	Decline from Peak	Return Required for Recovery	Peak Date	Trough Date	Recovery Date	Decline in Days	Decline in Months	Recovery in Days	Recovery in Months	Bear Duration in Days	Bear Duration in Months	Average Drawdown
1	-86.19%	624.09%	9/16/1929	6/1/1932	9/22/1954	678	32.29	5572	265.33	6250	297.62	-52.96%
2	-56.78%	131.35%	10/9/2007	3/9/2009	3/28/2013	355	16.90	1022	48.67	1377	65.57	-22.25%
3	-49.15%	96.65%	3/24/2000	10/9/2002	5/30/2007	637	30.33	1166	55.52	1803	85.86	-22.54%
4	-48.20%	93.06%	1/11/1973	10/3/1974	7/17/1980	436	20.76	1462	69.62	1898	90.38	-19.00%
5	-36.06%	56.40%	11/29/1968	5/26/1970	3/6/1972	369	17.57	451	21.48	820	39.05	-13.30%
6	-33.51%	50.40%	8/25/1987	12/4/1987	7/26/1989	71	3.38	414	19.71	485	23.10	-17.17%
7	-27.97%	38.84%	12/12/1961	6/26/1962	9/3/1963	135	6.43	299	14.24	434	20.67	-10.67%
8	-27.11%	37.20%	11/28/1980	8/12/1982	11/3/1982	430	20.48	58	2.76	488	23.24	-12.44%
9	-22.18%	28.50%	2/9/1966	10/7/1966	5/4/1967	167	7.95	143	6.81	310	14.76	-9.32%
10	-21.63%	27.60%	8/2/1956	10/22/1957	9/24/1958	307	14.62	234	11.14	541	25.76	-10.06%
Average	-40.88%	69.14%				358.50	17.07	1082.10	51.53	1440.60	68.60	-18.97%
Avg Ex 29	-35.84%	55.87%				323.00	15.38	583.22	27.77	906.22	43.15	-15.19%
Minimum	-21.63%	27.60%				71.00	3.38	58.00	2.76	310.00	14.76	-52.96%
Maximum	-86.19%	624.09%				678.00	32.29	5572.00	265.33	6250.00	297.62	-9.32%
Std. Dev.	19.95%	-16.63%				200.78	9.56	1647.29	78.44	1788.28	85.16	12.90%
Median	-34.79%	53.34%				362.00	17.24	432.50	20.60	680.50	32.40	-15.23%

Table 11.15: Dow Industrials Drawdown Decline

. 45.5		maacmaic	D. a a	2000								
	DRAWDOWN DECLINE											
	vdown inge	Average Max Drawdown	-	Average Months in Decline	Total Days in Decline	Total Months in Decline	Percentage of time spent in Decline					
-100%	-20%	-41.79%	557	26.54	8,360	398	23.60%					
-15%	-19.99%	-17.68%	165	7.88	827	39	2.33%					
-10%	-14.99%	-12.25%	43	2.07	564	27	1.59%					
-5%	-9.99%	-6.96%	23	1.10	897	43	2.53%					
-0.01%	-4.99%	-1.14%	4	0.17	1,885	90	5.32%					
All	DDs	-2.94%	21	1.01	12,533	597	35.37%					

Table 11.16: Dow Industrials Drawdown Recovery

			DRAWD	OWN REC	OVERY		
	/down nge	Average Gain to Recovery	Average Days to Recover	Average Months to Recover	Total Days in Recovery	Total Months in Recovery	Percentage of time spent in Recovery
-100%	-20%	71.78%	1,173	55.86	17,597	837.95	49.67%
-15%	-19.99%	21.48%	125	5.97	627	29.86	1.77%
-10%	-14.99%	13.95%	73	3.46	944	44.95	2.66%
-5%	-9.99%	7.48%	32	1.51	1,233	58.71	3.48%
-0.01%	-4.99%	1.15%	2	0.11	1,175	55.95	3.32%
All	DDs	3.03%	37	1.74	21,576	1,027.43	60.90%

Table 11.17: Dow Industrials Drawdown Duration

		DRA	WDOWN E	URATION			
	vdown inge	Average Duration of Drawdown (Days) Average Duration of Drawdown (Months)		Total Duration of Drawdown (Days)	Total Duration of Drawdown (Months)	Percentage of time spent in Drawdown	
-100%	-20%	1,730	82.40	25,957	1,236.05	73.26%	
-15%	-19.99%	291	13.85	1,454	69.24	4.10%	
-10%	-14.99%	116	5.52	1,508	71.81	4.26%	
-5%	-9.99%	55	2.60	2,130	101.43	6.01%	
-0.01%	-4.99%	6	0.28	3,060	145.71	8.64%	
All	All DDs		2.76	34,109	1,624.24	96.27%	

Table 11.23: Dow Industrials Bear Markets since 1885

Bear Markets in Dow Jones Industrials from 2/17/1885 to 12/31/2013												
Largest to Smallest	Decline from Peak	Return Required for Recovery	Peak Date	Trough Date	Recovery Date	Decline in Days	Decline in Months		Recovery in Months	Bear Duration in Days	Bear Duration in Months	Average Drawdown
1	-89.19%	824.72%	9/3/1929	7/8/1932	11/23/1954	845	40.24	6464	307.81	7309	348.05	-55.98%
2	-53.78%	116.35%	10/9/2007	3/9/2009	3/5/2013	355	16.90	997	47.48	1352	64.38	-20.10%
3	-48.54%	94.34%	1/19/1906	11/15/1907	7/28/1915	552			104.38	2744	130.67	-18.48%
4	-46.64%	87.42%	6/4/1890	8/8/1896	1/20/1899	1872			35.00		124.14	-22.33%
5	-46.58%	87.20%	11/3/1919	8/24/1921	12/31/1924	540			47.90		73.62	-24.10%
6	-46.14%	85.67%	6/17/1901	11/9/1903	3/24/1905	713			19.52		53.48	-22.45%
7	-45.08%	82.08%	1/11/1973	12/6/1974	11/3/1982	481	22.90	1998	95.14	2479	118.05	-17.30%
8	-40.13%	67.02%	11/21/1916	12/19/1917	7/9/1919	320	15.24	459	21.86	779	37.10	-21.39%
9	-37.85%	60.89%	1/14/2000	10/9/2002	10/3/2006	685	32.62	1003	47.76	1688	80.38	-13.64%
10	-36.58%	57.67%	2/9/1966	5/26/1970	11/10/1972	1052	50.10	625	29.76		79.86	-12.68%
11	-36.13%	56.57%	8/25/1987	10/19/1987	8/24/1989	38	1.81	468	22.29		24.10	-19.34%
12	-31.76%	46.54%	9/5/1899	9/24/1900	6/3/1901	314			9.62		24.57	-15.97%
13	-27.10%	37.17%	12/13/1961	6/26/1962	9/5/1963	134	6.38		14.33		20.71	-9.51%
14	-21.16%	26.83%	7/17/1990	10/11/1990	4/17/1991	61	2.90		6.14		9.05	-10.77%
15	-20.13%	25.20%	12/3/1886	4/2/1888	4/25/1890	398	18.95	623	29.67	1021	48.62	-8.08%
Average	-41.79%	71.78%				557.33	32.26	1174.13	70.81	1731.47	103.07	-22.53%
Avg Ex 29	-38.40%	62.34%				536.79	25.56	796.29	37.92	1333.07	63.48	-16.87%
Minimum	-20.13%	25.20%				38.00		129.00	6.14	190.00		-55.98%
Maximum	-89.19%	824.72%				1872.00	89.14	6464.00	307.81	7309.00	348.05	-8.08%
Std. Dev.	16.48%	-14.15%				461.33	21.97	1580.65	75.27	1741.53	82.93	11.27%
Median	-40.13%	67.02%				481.00	22.90	625.00	29.76	1352.00	64.38	-18.48%