Relationship Of Volatility & Market Returns (S&P 500 Index: 1962–Dec 31, 2023)

MONTHLY DATA: S&P 500 INDEX AVERAGE DAILY RANGE

	Volatility	% Chance	% Chance	If Up	If Down	Expected
<u>Quartile</u>	Range	Up Month	Dn Month	Avg Gain	Avg Loss	Gain/(Loss)
1st	0% - 0.9%	78%	22%	2.8%	-1.5%	1.9%
2nd	0.9% - 1.3%	63%	37%	3.2%	-2.3%	1.1%
3rd	1.3% - 1.7%	55%	45%	3.2%	-3.2%	0.3%
4th	1.7% - 6.6%	43%	57%	5.0%	-5.0%	-0.7%

ANNUAL DATA (1962-2023): S&P 500 INDEX AVERAGE DAILY RANGE

	Volatility	% Chance	% Chance	If Up	If Down	Expected
Quartile	Range	Up Year	Dn Year	Avg Gain	Avg Loss	Gain/(Loss)
1st	0% - 1.0%	94%	6%	16.2%	-1.5%	15.0%
2nd	1.0% - 1.3%	73%	27%	16.6%	-8.2%	10.0%
3rd	1.3% - 1.7%	87%	13%	17.4%	-5.8%	14.3%
4th	1.7% - 2.7%	38%	63%	15.1%	-17.8%	-5.5%

Avg Daily Range: S&P 500 Index (3 Mo Moving Average) 1962 - Dec 31, 2023

