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October 3, 2022

EQDerivatives

Equity Markets in the Fourth Quarter

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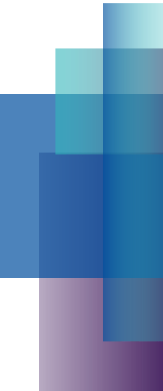
Equities In The Fourth Quarter

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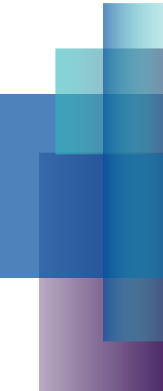
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Outline

- **Broad Based Indices**
- **Strategy Indices**
- **VIX Term Structure**
- **Q&A / Contact**



Fourth Quarter

Summary SPX / NDX / RUT Quarterly Performance 2010 – 2021

SPX	Q1	Q2	Q3	Q4
Average	3.16%	2.55%	2.07%	5.62%
Best	13.07%	19.95%	10.72%	11.69%
Worst	-20.00%	-11.86%	-14.33%	-13.97%

Data Sources: Bloomberg and EQDerivatives Calculations

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Fourth Quarter

Summary SPX / NDX / RUT Quarterly Performance 2010 – 2021

NDX	Q1	Q2	Q3	Q4
Average	4.99%	4.12%	5.31%	5.42%
Best	20.96%	29.99%	14.89%	12.88%
Worst	-10.53%	-11.19%	-8.00%	-17.01%

Data Sources: Bloomberg and EQDerivatives Calculations

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Fourth Quarter

Summary SPX / NDX / RUT Quarterly Performance 2010 – 2021

RUT	Q1	Q2	Q3	Q4
Average	3.38%	2.69%	-0.15%	7.21%
Best	14.18%	25.00%	10.94%	30.99%
Worst	-30.89%	-10.19%	-22.15%	-20.51%

Data Sources: Bloomberg and EQDerivatives Calculations

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Fourth Quarter

Summary BXM / BXN / BXR Quarterly Performance 2010 - 2021

BXM	Q1	Q2	Q3	Q4
Average	0.71%	1.90%	1.60%	3.59%
Best	6.77%	9.14%	10.39%	16.14%
Worst	-22.22%	-10.26%	-11.12%	-10.81%

Data Sources: Bloomberg and EQDerivatives Calculations

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Fourth Quarter

Summary BXM / BXN / BXR Quarterly Performance 2010 - 2021

BXN	Q1	Q2	Q3	Q4
Average	1.05%	1.46%	2.62%	3.27%
Best	7.70%	11.06%	11.17%	12.65%
Worst	-15.90%	-10.79%	-9.13%	-11.69%

Data Sources: Bloomberg and EQDerivatives Calculations

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Fourth Quarter

Summary BXM / BXN / BXR Quarterly Performance 2010 - 2021

BXR	Q1	Q2	Q3	Q4
Average	0.91%	3.52%	0.31%	4.66%
Best	10.57%	19.31%	9.15%	23.91%
Worst	-31.62%	-9.17%	-18.39%	-17.02%

Data Sources: Bloomberg and EQDerivatives Calculations

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Fourth Quarter

Summary SPX / NDX / RUT Q4 Volatility 2010 - 2021

SPX	Q1	Q2	Q3	Q4
Average	20.16%	15.94%	15.66%	14.98%
Highest	56.95%	31.87%	33.26%	26.77%
Lowest	6.70%	7.35%	7.11%	5.56%

Data Sources: Bloomberg and EQDerivatives Calculations

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Fourth Quarter

Summary SPX / NDX / RUT Q4 Volatility 2010 – 2021

NDX	Q1	Q2	Q3	Q4
Average	22.75%	18.68%	18.30%	18.43%
Highest	56.69%	30.83%	33.10%	32.55%
Lowest	6.80%	12.21%	10.32%	10.07%

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Fourth Quarter

Summary SPX / NDX / RUT Q4 Volatility 2010 – 2021

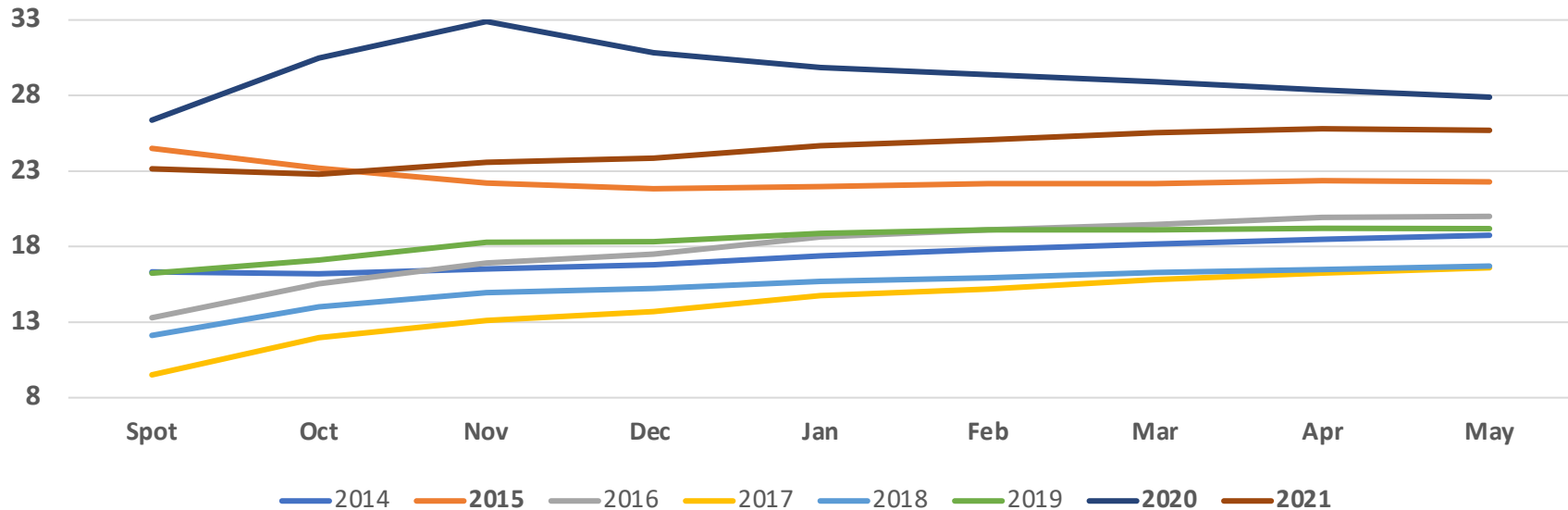
RUT	Q1	Q2	Q3	Q4
Average	25.11%	22.75%	21.10%	20.69%
Highest	63.55%	47.54%	44.68%	40.55%
Lowest	12.28%	12.52%	10.03%	10.10%

Data Sources: Bloomberg and EQDerivatives Calculations

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VIX Term Structure

VIX Term Structure Last Day Q3 2014 - 2021



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VIX Term Structure

Current Market Similar to 2015, 2020, 2021

Year	Q4 SPX Performance	Q3 VIX Close	Q4 VIX Close
2015	6.45%	24.50	18.21
2020	11.69%	26.37	22.75
2021	10.65%	23.14	17.22

Data Sources: Bloomberg and EQDerivatives Calculations

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Questions / Contact

Questions?

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