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EQDerivatives

The Index Option Universe – Making Sense Of All The Choice

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Outline

- Markets
- Use Of Short Dated Options
- One-Day Options in 2022
- Questions / Contact

Markets

S&P 500		Nasdaq-100		Russell 2000
SPX		NDX		RUT
XSP		NQX		MRUT
E-Mini ES		XND		E-Mini RUT
Micro ES		E-Mini NQ		
		Micro NQ		

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S&P 500 – Typical Week Expirations

Market	Mon	Tue	Wed	Thu	Fri
SPX Index	Green	Green	Green	Green	Green
XSP Index	Green	Green	Green	Green	Green
Mini ES Futures	Green	Green	Green	Green	Green
Micro ES Futures	Red	Red	Red	Red	Green

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Nadaq-100 – Typical Week Expirations

Market	Mon	Tue	Wed	Thu	Fri
NDX Index	Green	Green	Green	Green	Green
NQX Index	Red	Red	Red	Red	Green
XND Index	Green	Green	Green	Green	Green
Mini NQ Futures	Green	Green	Green	Green	Green
Micro NQ Futures	Red	Red	Red	Red	Green

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Russell 2000 – Typical Week Expirations

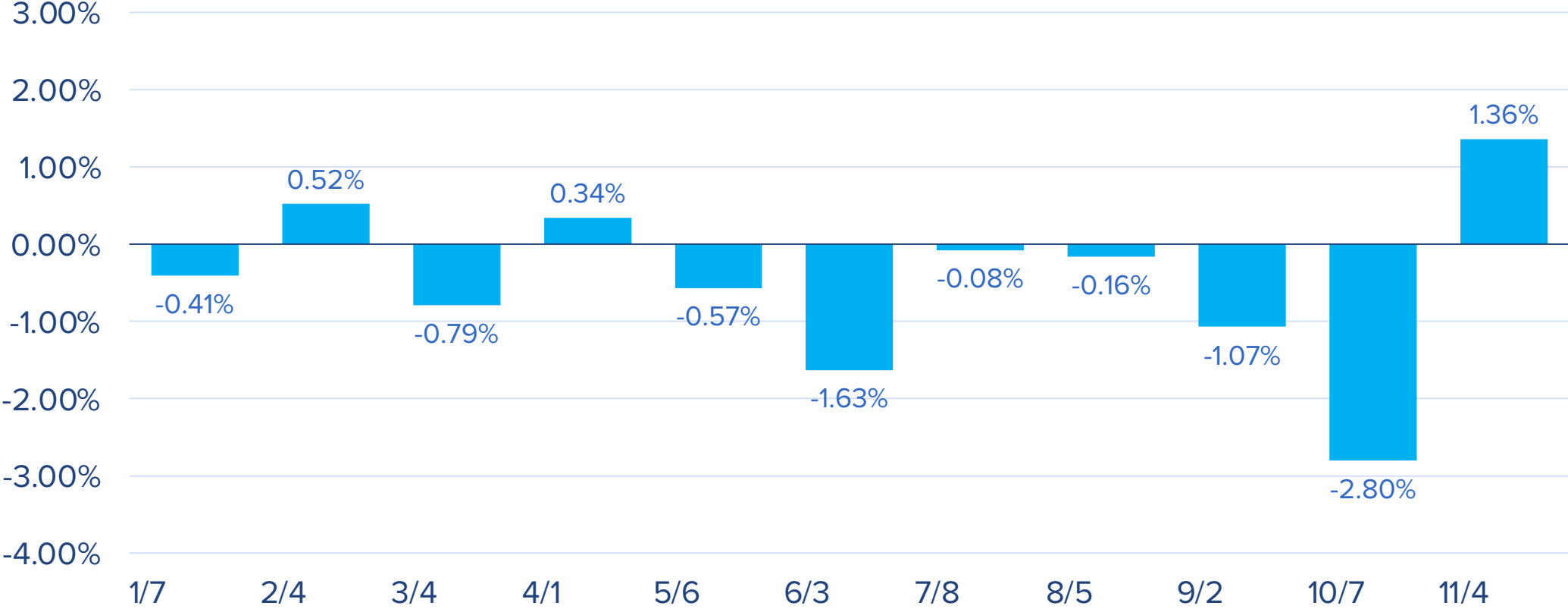
Market	Mon	Tue	Wed	Thu	Fri
RUT Index					
MRUT Index					
Mini RUT Futures					

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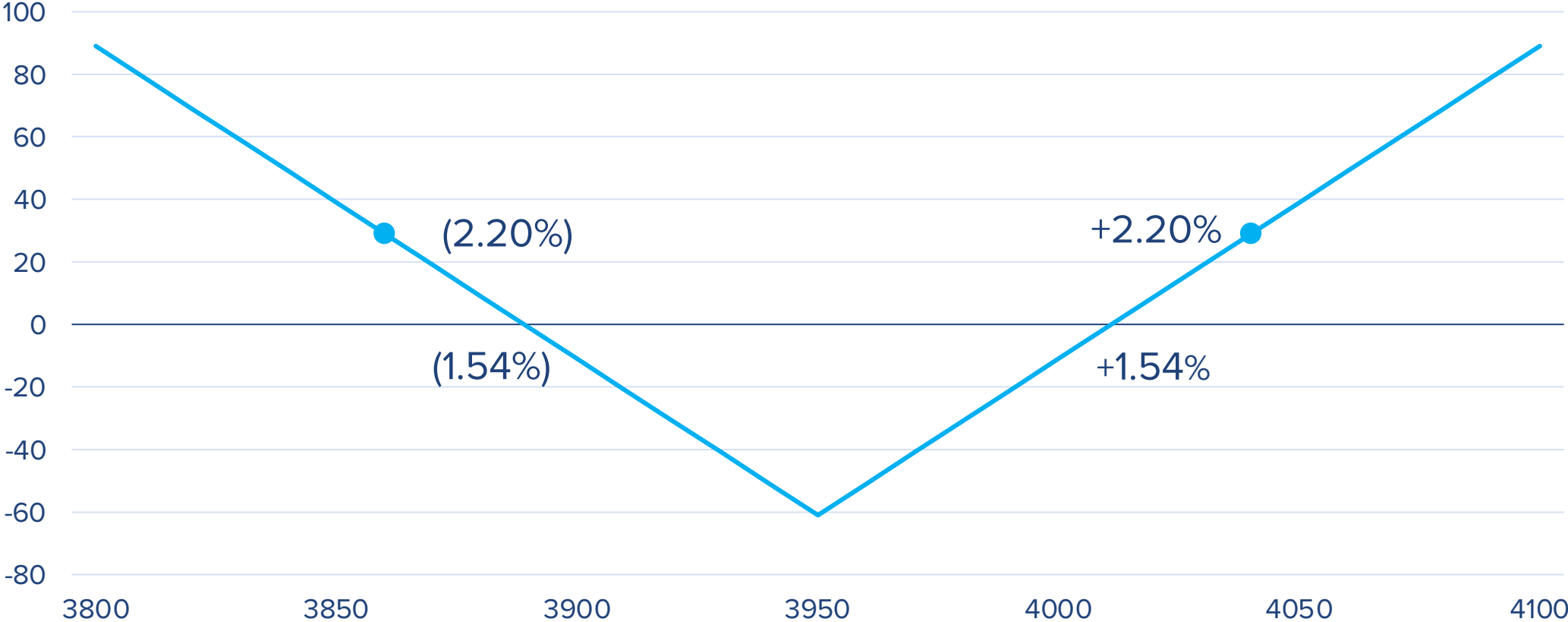
One Day Expirations

- On a typical trading day approximately 40% of index option trading is focused on contracts with less than 24 hour to expiration
- Traders are using very short dated options for income as well as to hedge or speculate on the reaction to economic numbers

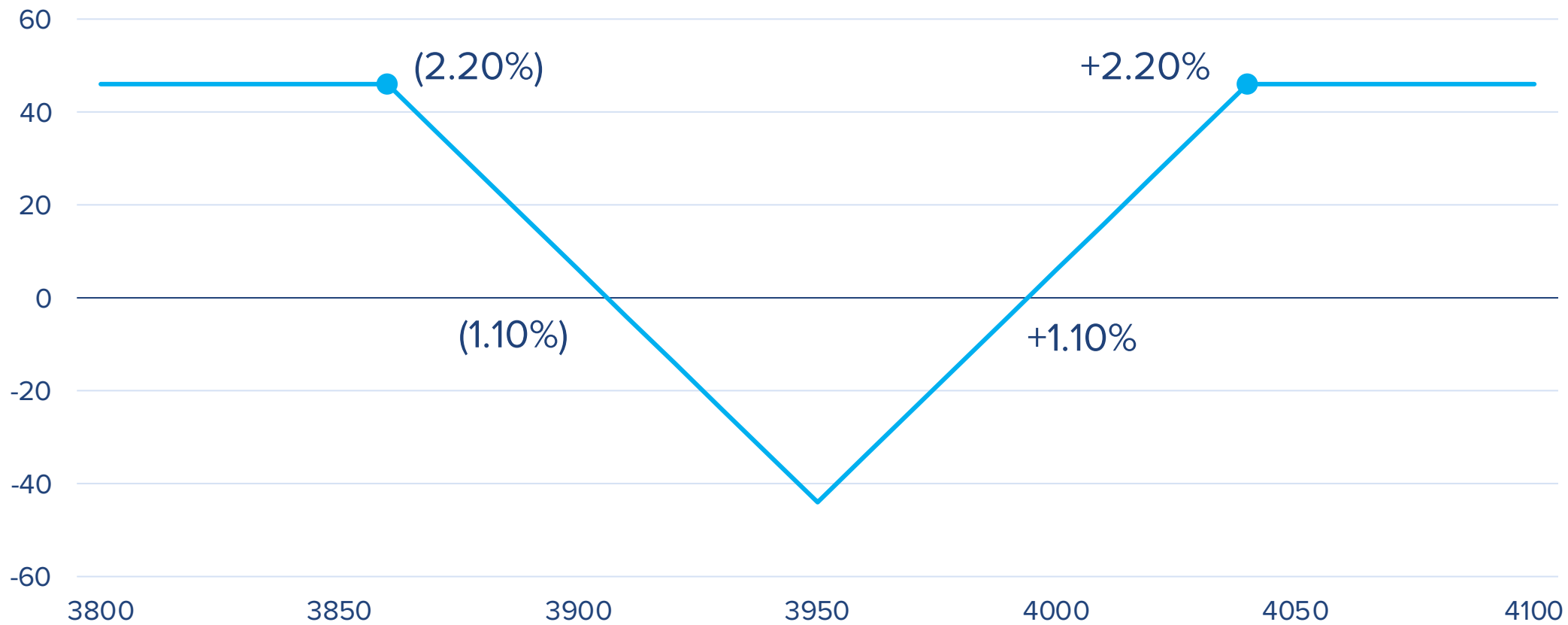
SPX Non-Farm Payroll Reaction Jan - Nov 2022



SPX Dec 1 3950 Straddle



SPX Dec 1 3860 / 3950 / 4040 Butterfly



One-Day Option Pricing

- The day before expiration we priced at-the-money straddles for SPX and NDX that expired the following day for all of 2022
- The average SPX straddle cost 1.17% of notional while the average one-day move for SPX was +/- 1.29%
- The average NDX straddle cost 1.52% of notional while the average one-day move for NDX was +/-1.60%

One-Day Option Pricing – SPX

Statistic	Count
Observations	220
Close Inside Straddle	56.36%
Close Outside Straddle	43.64%
Hypothetical Short Straddle P/L	-191.32

Data Sources: Bloomberg and EQDerivatives Calculations

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One-Day Option Pricing – SPX

Expiration Day	Observations	Inside Straddle	% Inside	% Outside	Short P/L
Monday	45	29	64.44%	35.56%	264.52
Tuesday	38	23	60.53%	39.47%	97.57
Wednesday	52	28	53.85%	46.15%	-18.27
Thursday	34	18	52.94%	47.06%	-180.43
Friday	51	26	50.98%	49.02%	-354.71

Data Sources: Bloomberg and EQDerivatives Calculations

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One-Day Option Pricing – NDX

Statistic	Count
Observations	182
Close Inside Straddle	52.20%
Close Outside Straddle	47.80%
Hypothetical Short Straddle P/L	-2891.61

Data Sources: Bloomberg and EQDerivatives Calculations

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One-Day Option Pricing – NDX

Expiration Day	Observations	Inside Straddle	% Inside	% Outside	Short P/L
Monday	45	28	62.22%	37.78%	716.27
Tuesday	25	14	56.00%	44.00%	-750.65
Wednesday	52	25	48.08%	51.92%	-753.60
Thursday	19	9	47.37%	52.63%	-501.78
Friday	41	19	46.34%	53.66%	-1601.85

Data Sources: Bloomberg and EQDerivatives Calculations

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Questions / Contact

Questions?

(Any market related topic is fine)

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