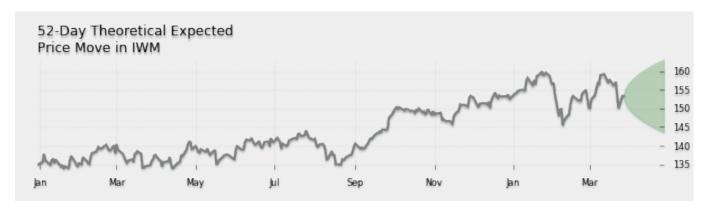
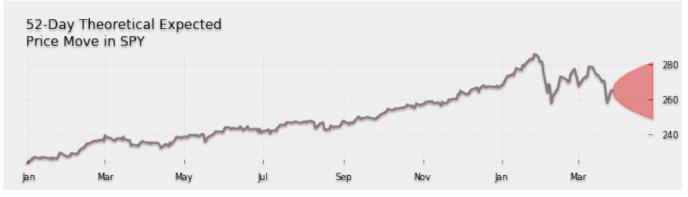
Options involve risk and are not suitable for all investors. Please read <u>Characteristics and Risks of Standardized Options</u> before deciding to invest.

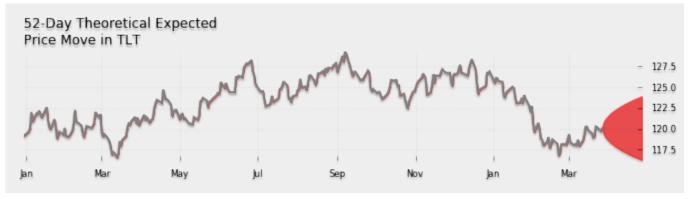
### **Expected Move Charts**

The following charts show the 52-day theoretical expected price move in 3 popular indices. We wrote about what each of the colors represent in the Cherry Picks from October 31 – see that edition here.

Michael Rechenthin, PhD Kai Zeng









## **Market Statistics**

#### 1 Month Returns of Futures

/CL	/UB	/6J	/6B	/GC	/6E	/ZB
3.0%	1.5%	1.5%	1.4%	1.1%	1.1%	1.0%
/ZN	/NG	/ZF	/ZT	/SI	/ZC	/RTY
0.2%	0.1%	0.0%	-0.0%	-0.2%	-0.3%	-0.8%
/6C	/6A	/ZS	/NQ	/ZW	/ES	/YM
-1.3%	-1.7%	-1.8%	-2.6%	-3.9%	-4.2%	-5.7%

#### 1 Month Returns of Dow Stocks

INTC	CVX	MSFT	CSCO	IBM	MCD
8.0%	1.0%	-0.9%	-2.2%	-2.9%	-3.0%
KO	AAPL	TRV	V	JNJ	VZ
-3.0%	-3.1%	-3.1%	-3.3%	-3.5%	-3.7%
MRK	PFE	NKE	GS	UNH	WMT
-4.0%	-5.1%	-5.5%	-5.6%	-5.6%	-5.8%
XOM	HD	UTX	PG	JPM	DIS
-5.9%	-6.0%	-6.2%	-6.2%	-6.5%	-8.2%
CAT	AXP	BA	MMM	GE	DWDP
-8.2%	-8.6%	-8.7%	-8.8%	-11.7%	-12.2%

**DIA** Dow

**EEM** Emerging Index Fund

**EFA** MSCI EAFE

**EWZ** Brazil

FEZ Euro Stoxx 50
FXI China Large Cap
GDX Gold Miners

**GDXJ** Junior Gold Miners

GLD Gold

IWM Russell 2000 ETFKRE Regional Banking

OIH Oil Services QQQ Nasdaq 100

**SLV** Silver **SPY** S&P 500

**TLT** 20+ Year Treasury Bond ETF

XBI Biotech
XLB Materials

**XLE** Energy Select Sector

XLF Financial
XLI Industrial
XLK Tech

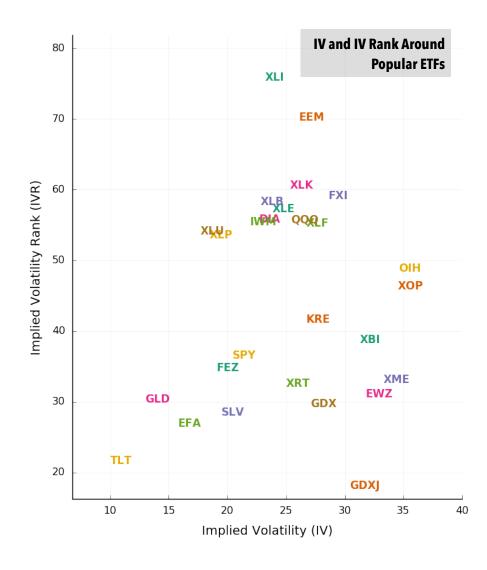
**XLP** Consumer Staples

**XLU** Utilities

**XME** Metals and Mining

**XOP** Oil & Gas Exploration & Product

**XRT** Retail





# Upcoming Earnings

## **Upcoming Earnings**

Symbol	Description	Expected Report Date	Time of Day	Weekly Options	In Dow?	In S&P 500?	In Russell 2000?	In tastytrade Watchlist?
SONC	Sonic Corp.	Tue Mar-27	After Close	-	-	-	Yes	-
WBA	Walgreens Boots Alliance	Wed Mar-28	Before Open	Yes	-	Yes	-	-
PVH	PVH Corp.	Wed Mar-28	After Close	-	-	Yes	-	-
KMX	CarMax Inc	Wed Apr-04	Before Open	Yes	-	Yes	-	-
MON	Monsanto	Wed Apr-04	n/a	Yes	-	Yes	-	-
LEN	Lennar (Class A)	Mon Apr-09	n/a	-	-	Yes	-	-

## **Historical Earnings Moves for Select Stocks**

It is often nice to examine historical moves in stocks around earnings. At the very least, it provides some context.

Historical Price Move From Immediately Before Earnings to that Friday's Expiration											
	4th Q	3rd Q	2nd Q	1st Q	4th Q	3rd Q	2nd Q	1st Q	4th Q	3rd Q	2nd Q
	2017	2017	2017	2017	2016	2016	2016	2016	2015	2015	2015
MON	1%	0%	1%	2%	3%	2%	0%	0%	-5%	2%	-7%
KMX	-5%	8%	4%	0%	3%	-4%	-9%	0%	-4%	-6%	-5%
LEN	4%	6%	-1%	-3%	0%	-4%	-4%	2%	-2%	0%	6%
PVH	0%	5%	3%	11%	-3%	-1%	5%	8%	-12%	5%	9%
SONC	2%	1%	2%	6%	5%	-13%	-9%	9%	-3%	4%	-13%
WBA	-3%	-4%	2%	0%	0%	6%	-2%	-6%	2%	-11%	8%



# **Upcoming Dividends**

Stocks and ETFs with an **upcoming dividend**.

In the money short call options are the only options at risk of additional early assignment due to the dividend. If the extrinsic value of the in the money short call is less than the dividend, the option is at (a greater than average) risk of being assigned.

Symbol	Description	Ex-Dividend Date	Dividend Per Share	In Dow?	In S&P 500?	In Russell 2000?	In tastytrade Watchlist?
MRVL	Marvell Technology Group Ltd.	Wed, Mar 28	0.06	-	-	-	-
DE	Deere &	Wed, Mar 28	0.6	-	Yes	-	-
ATVI	Activision Blizzard	Wed, Mar 28	0.34	-	Yes	-	-
ABB	ABB Ltd	Wed, Apr 04	0.517	-	-	-	-
CSCO	Cisco Systems	Wed, Apr 04	0.33	Yes	Yes	-	-
JPM	JP Morgan Chase & Co.	Thu, Apr 05	0.56	Yes	Yes	-	-
AXP	American Express	Thu, Apr 05	0.35	Yes	Yes	-	-
BMY	Bristol-Myers Squibb	Thu, Apr 05	0.4	-	Yes	-	-
MON	Monsanto	Thu, Apr 05	0.54	-	Yes	-	-
MA	Mastercard	Fri, Apr 06	0.25	-	Yes	-	-
DRI	Darden Restaurants	Mon, Apr 09	0.63	-	Yes	-	-
GIS	General Mills	Mon, Apr 09	0.49	-	Yes	-	-
VZ	Verizon Communications	Mon, Apr 09	0.59	Yes	Yes	-	-
INTU	Intuit	Mon, Apr 09	0.39	-	Yes	-	-

## **April 2 ETF dividends**

HYD, BWX, JNK



## **Shows From the Research Team The Past Few Days:**

Date	Segment	Title	Link
Mon, Mar 26	Market Measures	Managing Winners + Losers	LINK
Mon, Mar 26	The Skinny on Options: Abstract Applications	Return Dynamics	LINK
Mon, Mar 26	Best Practices	Intrinsic & Extrinsic	LINK
Fri, Mar 23	Market Measures	Guide to Pairs Trading Stock Indexes	<u>LINK</u>
Fri, Mar 23	Resize & Analyze	Week of March 19th	<u>LINK</u>
Fri, Mar 23	Closing the Gap - Futures Edition	Crude: Through the Lens of FX	<u>LINK</u>
Thu, Mar 22	Market Measures	Short VIX Strategies: Varying Timeframes	<u>LINK</u>
Thu, Mar 22	Strategies for IRA	Condors in an IRA	<u>LINK</u>
Thu, Mar 22	Trades From the Research Team LIVE	Trades From the Research Team LIVE	<u>LINK</u>
Wed, Mar 21	Market Measures	Managing Winners or Losers - Volatility Comparison	<u>LINK</u>
Wed, Mar 21	Options Jive	Is There a Trade? Week of March 19th	<u>LINK</u>
Wed, Mar 21	tasty BITES	Upping Returns	<u>LINK</u>
Tue, Mar 20	Market Measures	Sector ETFs vs Largest Components	<u>LINK</u>
Tue, Mar 20	Options Jive	The Hunt for Expensive Options	<u>LINK</u>
Tue, Mar 20	tasty Extras	An Update From Dylan Ratigan	<u>LINK</u>
Mon, Mar 19	Market Measures	Wide Iron Condors: Max Loss Expectations	<u>LINK</u>
Mon, Mar 19	The Skinny on Options: Abstract Applications	The Lognormal Distribution	<u>LINK</u>
Mon, Mar 19	Best Practices	Synthetics Advantage	<u>LINK</u>
Fri, Mar 16	Market Measures	VIX Expected Moves and POT	<u>LINK</u>
Fri, Mar 16	Resize & Analyze	Week of March 12th	<u>LINK</u>
Fri, Mar 16	Closing the Gap - Futures Edition	Triple Witching: Time to Roll Equity Futures	<u>LINK</u>
Thu, Mar 15	Market Measures	Trade Defense: Rolling Untested Sides	<u>LINK</u>
Thu, Mar 15	Options Jive	Defending Trades	<u>LINK</u>
Thu, Mar 15	Trades From the Research Team LIVE	Trades From the Research Team LIVE	<u>LINK</u>
Wed, Mar 14	Market Measures	The Nature of Managing Losers	<u>LINK</u>
Wed, Mar 14	The Skinny on Options: Abstract Applications	The Law of Large Numbers	<u>LINK</u>
Wed, Mar 14	Options Jive	Is There a Trade? Week of March 12th	<u>LINK</u>
Tue, Mar 13	Market Measures	Implied Volatility: Gold vs. Equities	<u>LINK</u>
Tue, Mar 13	Options Jive	Translating Stock Movement to Options	<u>LINK</u>
Tue, Mar 13	tasty BITES	Holding to Expiration	<u>LINK</u>
Mon, Mar 12	Market Measures	Diversification Options in High IV Rank	<u>LINK</u>
Mon, Mar 12	Best Practices	The Speed of Delta	<u>LINK</u>

## **Reading this Report**

**Expected Range Cone.** The colored cone represents a 30-day expected theoretical price range that is calculated from the options' implied volatilities. If the implied volatility is relatively high, then the market is expecting a larger price change in the underlying stock or ETF. From this we can derive the market's 1 standard deviation theoretical expectation of where prices might be in the future. In other words, the market is expecting, with a 68% theoretical probability, that prices will fall within the boundary of the cone at the end of 30 days.

**Cone Color.** The color of the cone is significant. The darker the color, the more "extreme" the implied volatility (IV) which is represented by implied volatility rank (IV Rank). This information can help you decide on a trading strategy.

# IV Rank near 100% IV Rank near 0%

## **Glossary**

**IV.** Implied Volatility is the estimated volatility of a security's price derived from its option price; the higher the IV, the more expensive the option and therefore the larger the expected price move. IV is an annualized number of volatility, e.g. a IV of 27 means the option's market is pricing in an annualized price range, either plus or minus, of 27%.

**IV Rank.** IV by itself doesn't tell us if if the volatility is high or low - but IV Rank does. An IV Rank of 70 means that the IV is 70% between its low and high IV over the past year. The higher the IV Rank, the higher the security's IV is compared to its past year. We provide six levels to make evaluating easier:

• Extremely High: IV Rank between 90 and 100

• High: IV Rank between 75 and 90

Moderately High: IV Rank between 50 and 75
 Moderately Low: IV Rank between 25 and 50

• Low: IV Rank between 10 and 25

• Extremely Low: IV Rank between 0 and 10

**Option Liquidity.** At tastytrade we have our own theoretical measure of option liquidity, Poor, Moderate, Good, or Great. It examines the options' bid/ask spread, open interest, and the number of strikes with non-zero bids.

**Correlation with S&P 500.** Correlation is a statistical measure of how strong a relationship two securities have with one another. A correlation of -1 means the stocks are perfectly negatively correlated (they move in opposite directions), while a correlation of +1 means the stocks are perfectly positively correlated (they move in the same direction). A correlation of 0 means there exist little relationship.

**Earnings.** The earnings date of the security. In practice we tend to see stocks have a larger amount of implied volatility (IV) nearer to earnings as the market is pricing in the fear of the upcoming earnings announcement. In parenthesis, is BTO or AMC; "Before the Open" or "After Market Closes", respectively. Upcoming earnings dates do sometimes change.

## **Disclosures**

Options involve risk and are not suitable for all investors. Please read Characteristics and Risks of Standardized Options before deciding to invest in options: <a href="https://www.theocc.com/components/docs/riskstoc.pdf">https://www.theocc.com/components/docs/riskstoc.pdf</a>

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