

# Advanced Order Flow Trading Module 4 Trading Around VWAP

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Cash open is a time when execution algos start. The institutional trading desks have orders every day for the futures markets to start executing on the cash open. These orders are being worked against a cash position.

Most of these orders have specific instructions:

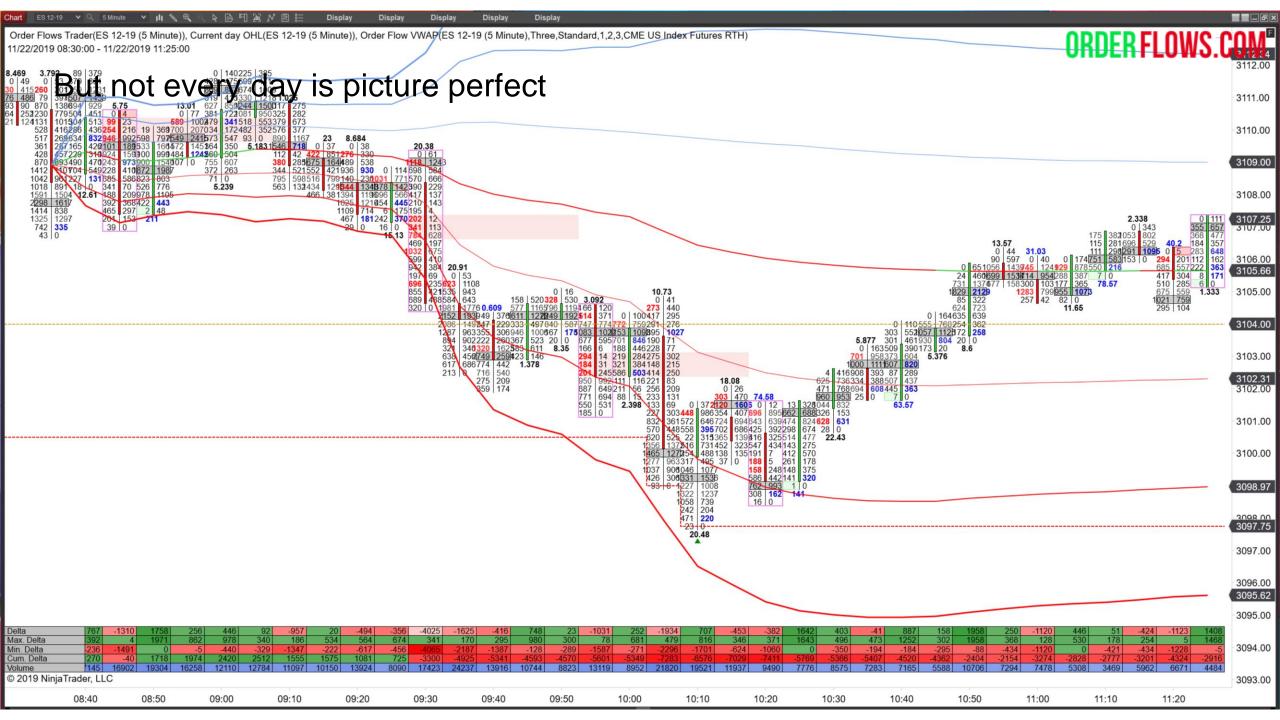
Target cash open.

Target VWAP for the first 5 minutes.

Target VWAP for the first hour.

Cash open to cash close target VWAP.





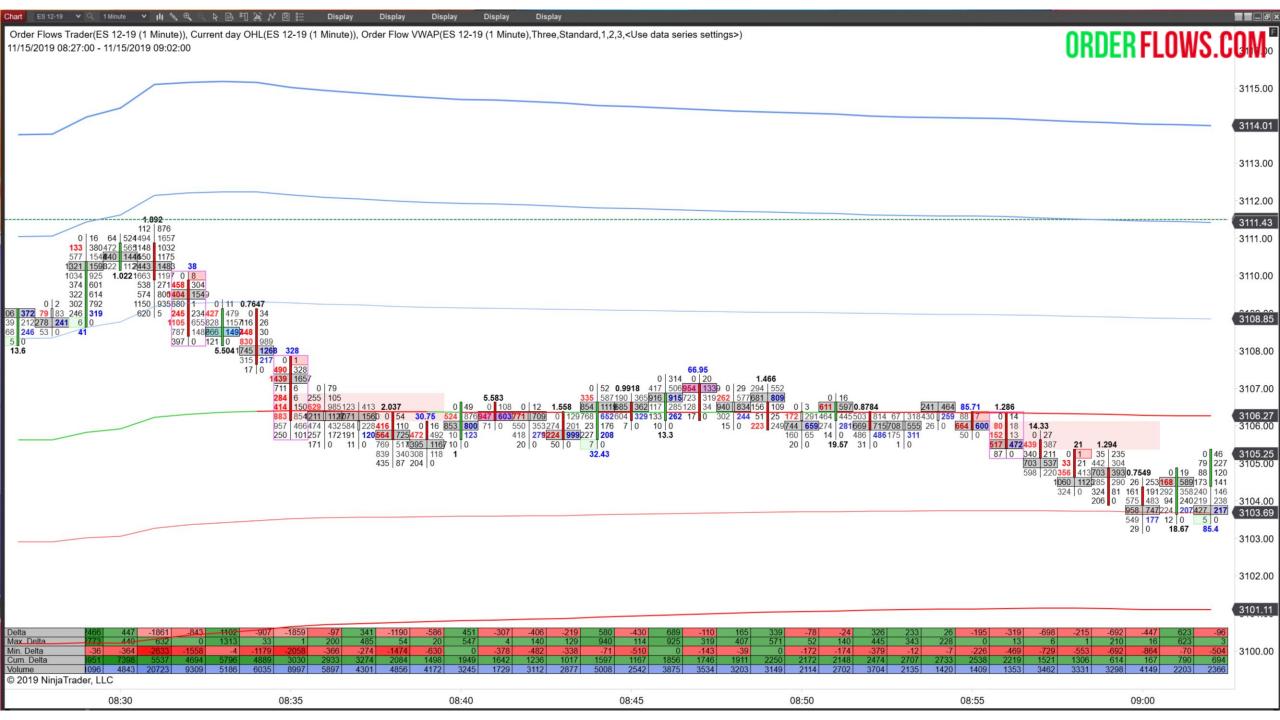
VWAP is an important level for institutional traders because they want to participate in the market without moving the market.

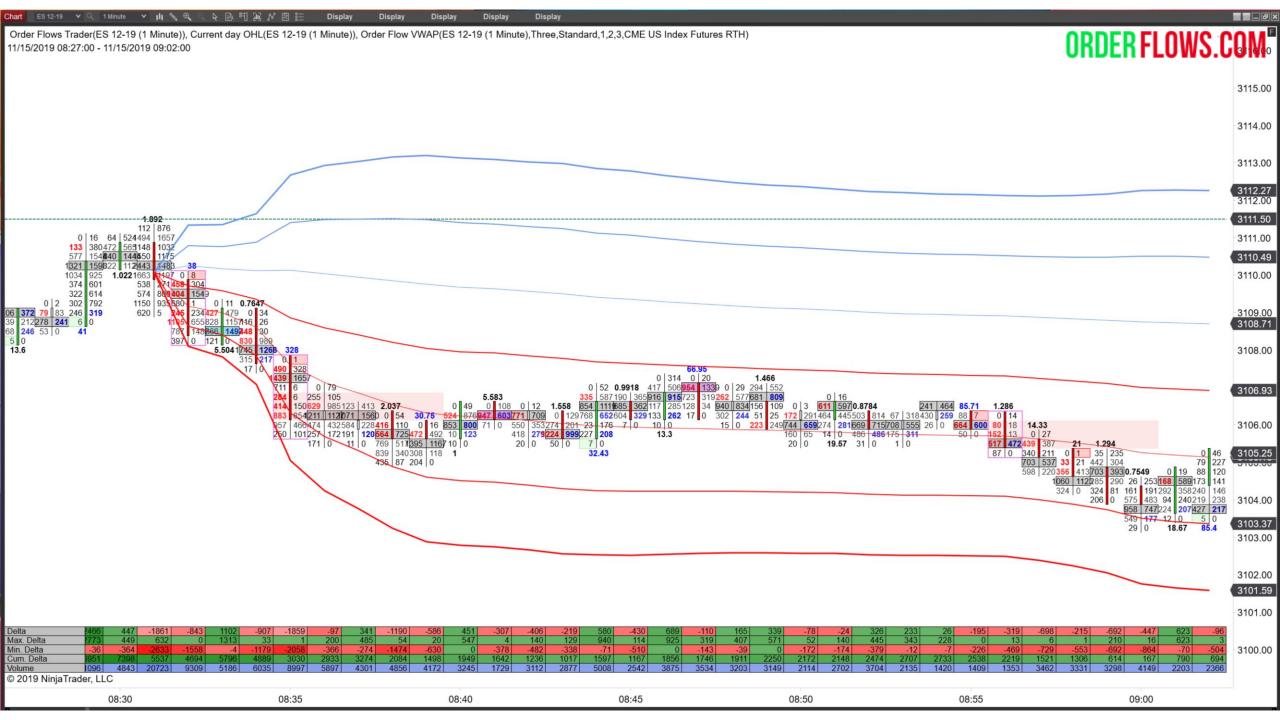
What that means is if the market trades say 50 lots at a price, they wants to also trade some volume at that same price level. They must participate.

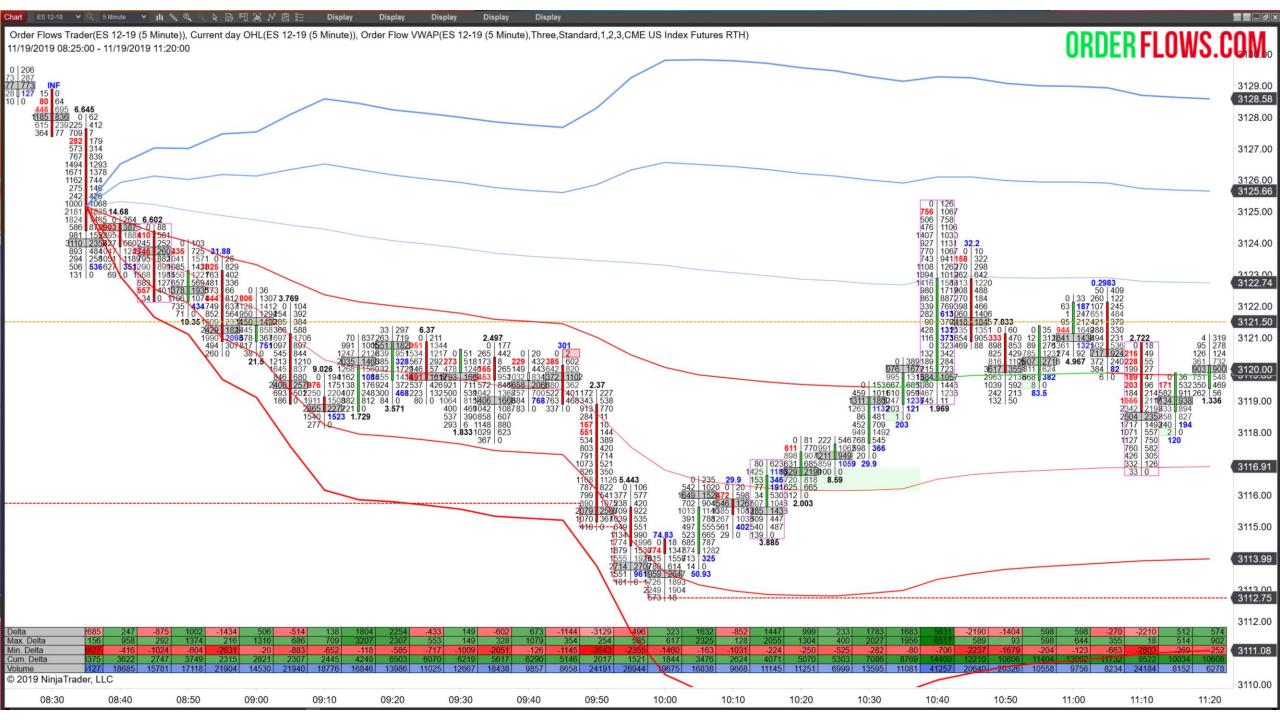
If a trader can beat VWAP for a particular time period, the PM is capturing Alpha.

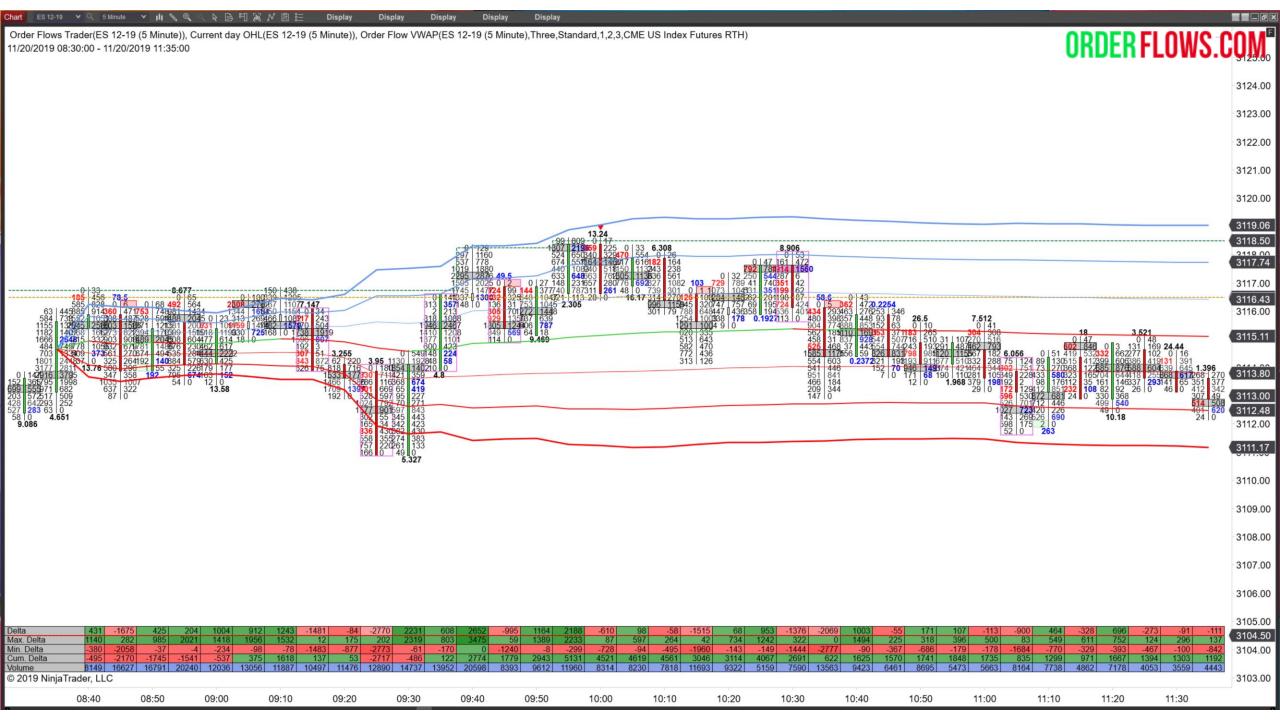
Some traders think VWAP is the greatest thing since sliced bread. But they don't understand the drawback of using VWAP. Most notably that late in the day, like the last couple of hours VWAP barely moves.

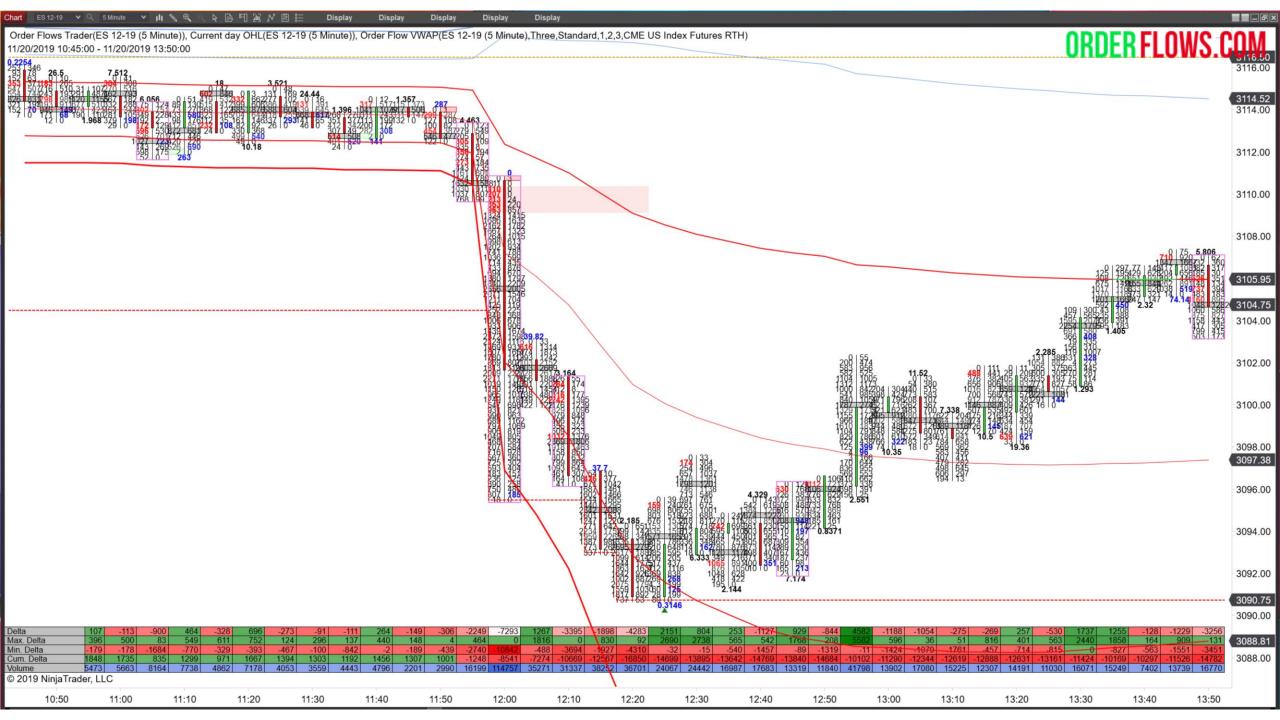
Another misconception (fake news) of using VWAP is retail traders think institutions are using VWAP as their target for the day. But they are calculating it wrong. Retail traders tend to calculate VWAP over the entire session, from the 5pm open. While the institutions are using the cash day opening time. There is a big difference. The mean, the VWAP, that they are looking for the reversion to is off.







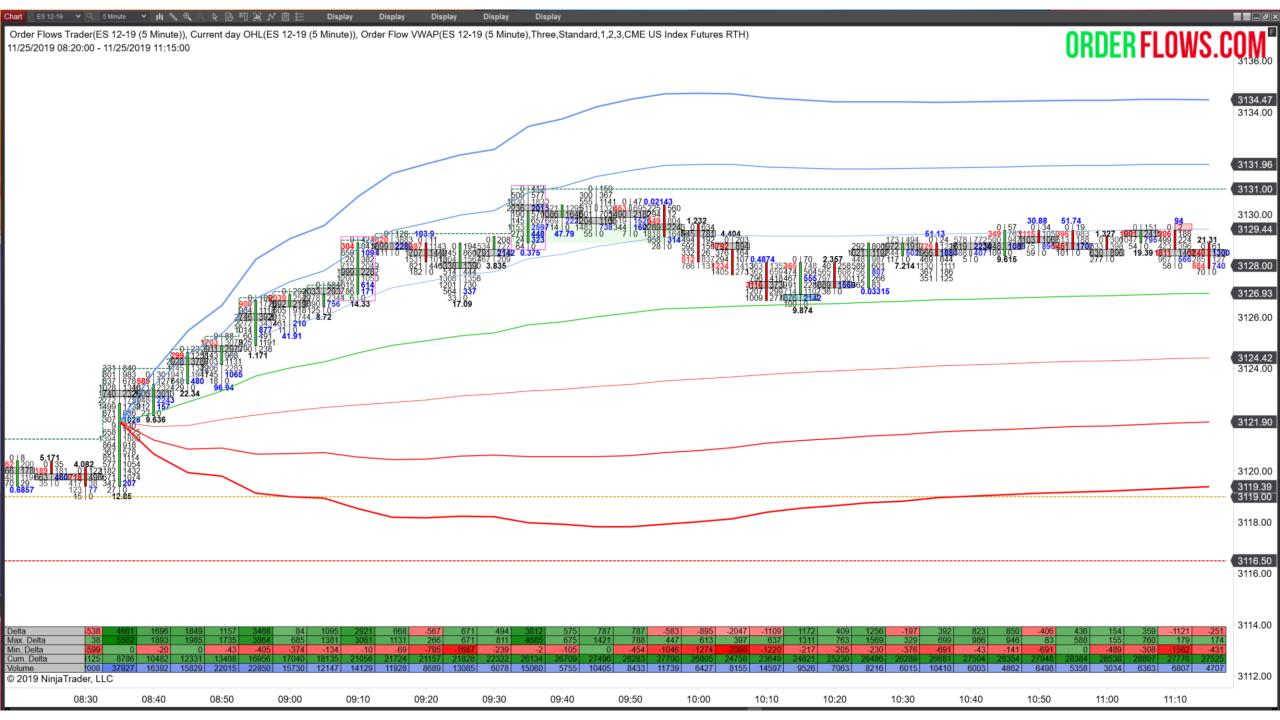






If you are going to trade around VWAP, you have to first understand the type of day that is occurring. If you are trading a mean reversion day, you are going to need the day to be a rotational day. If the day is a trending day, you are going to be screwed.

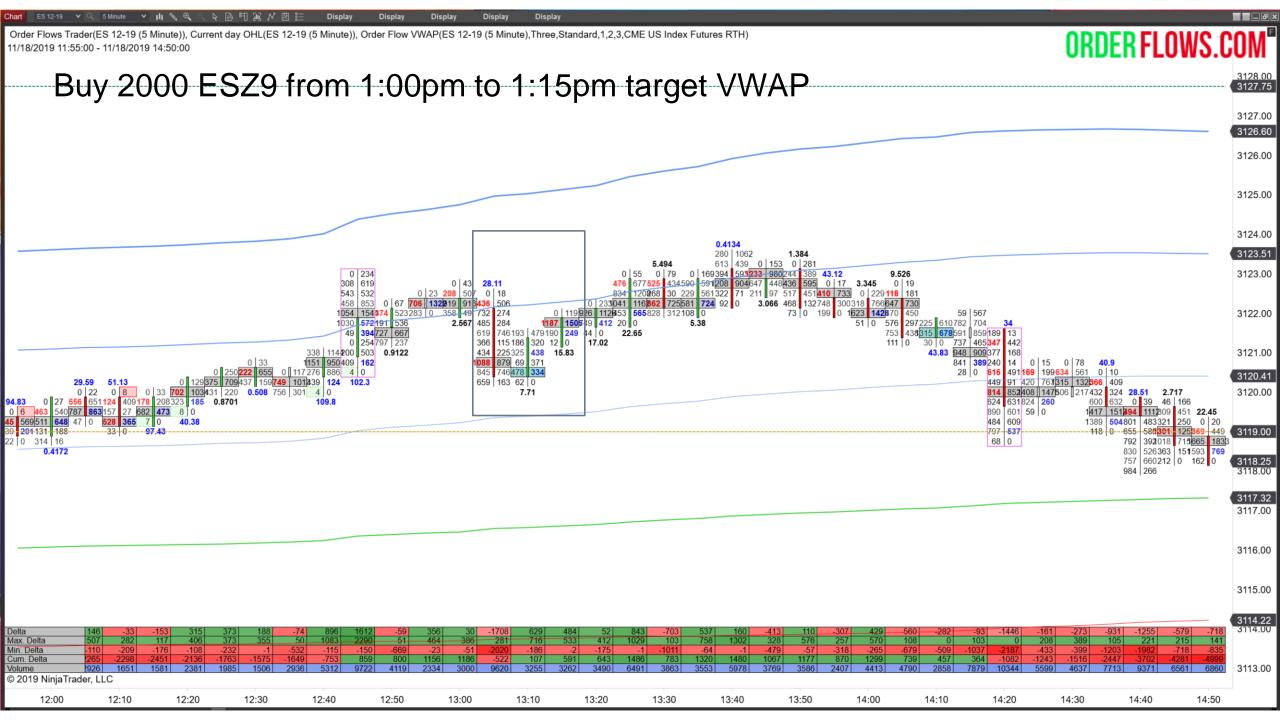




VWAP is used by institutional traders as an execution benchmark for the time period the order was working in the market.

If an order has instructions "buy 750 ESZ9 over the next 5 minutes target VWAP." The portfolio manager is going to look at VWAP for just that 5 minute period his order was working and compare his fill to it.

He is not going to look at the entire day's VWAP up to that point and then judge his execution price.



VWAP. The sooner you recognize the type of trading day is developing the better your edge will be.

You can't trade a trend day and rotational day the same way.

On trend days you go with the momentum. You buy above value and sell below value. Price leads value.

On rotational days, you do the opposite. You buy below value or sell above value.

Inexperienced traders are not able to identify what type of day is developing and try and trade each day as a rotational day. They often get stubborn and make the same bad trading decision a few times before realizing they misread the type of day that is developing.



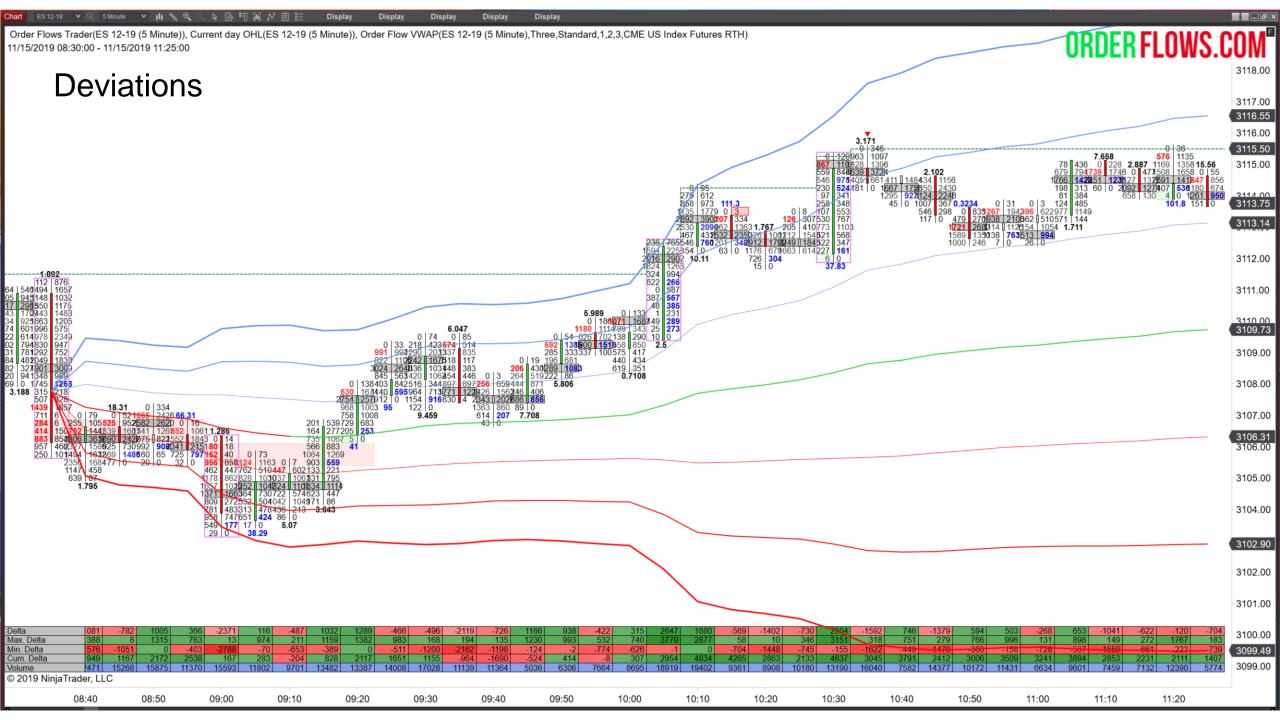
How can you tell what type of day is developing?

When the market is trading around VWAP and when the market is trading at the deviations.

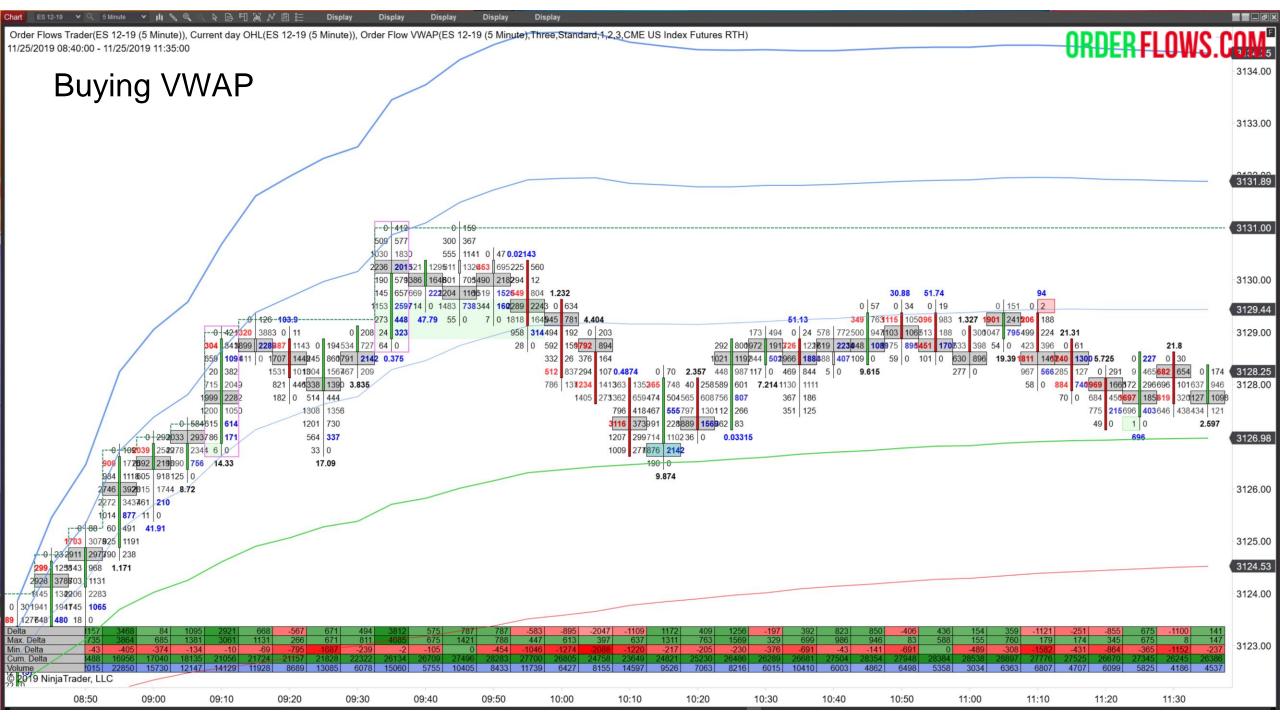


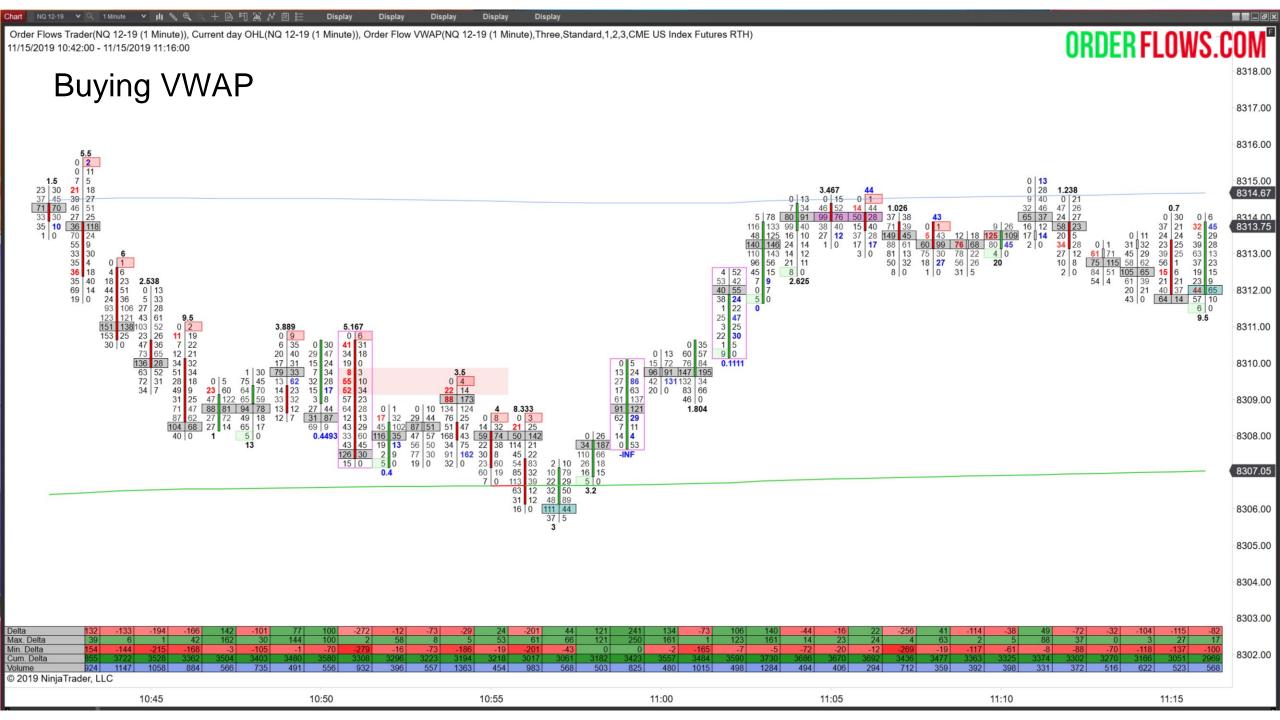
Earlier, I wrote "There are several ways to approach VWAP, when the market is trading around VWAP and when the market is trading at the deviations."

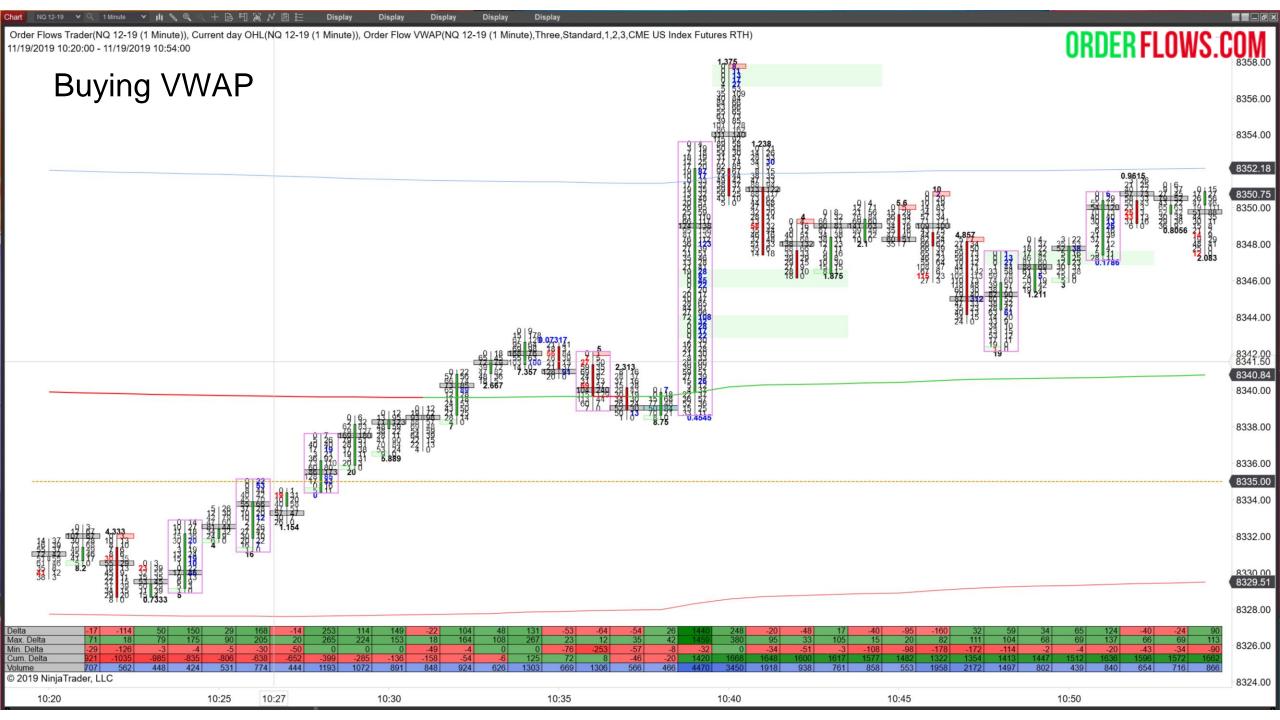
I don't recommend trading around deviations for most traders (by most traders I mean those who are not able to recognize the type of day we are in). The reason being if the market is trending and you sell the first deviation for a reversion to the mean and the market goes to the second deviation and you get short again, the deviation lines are rising. You are now selling at a worse price because the market is trending.

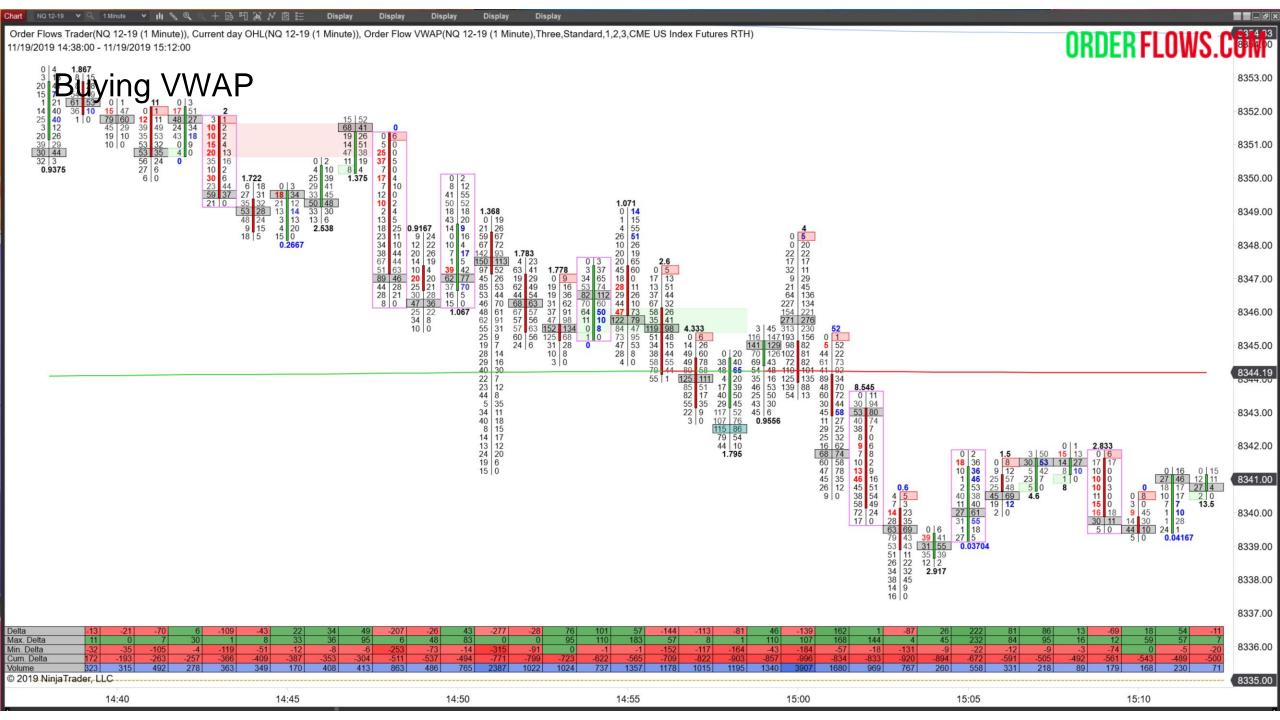








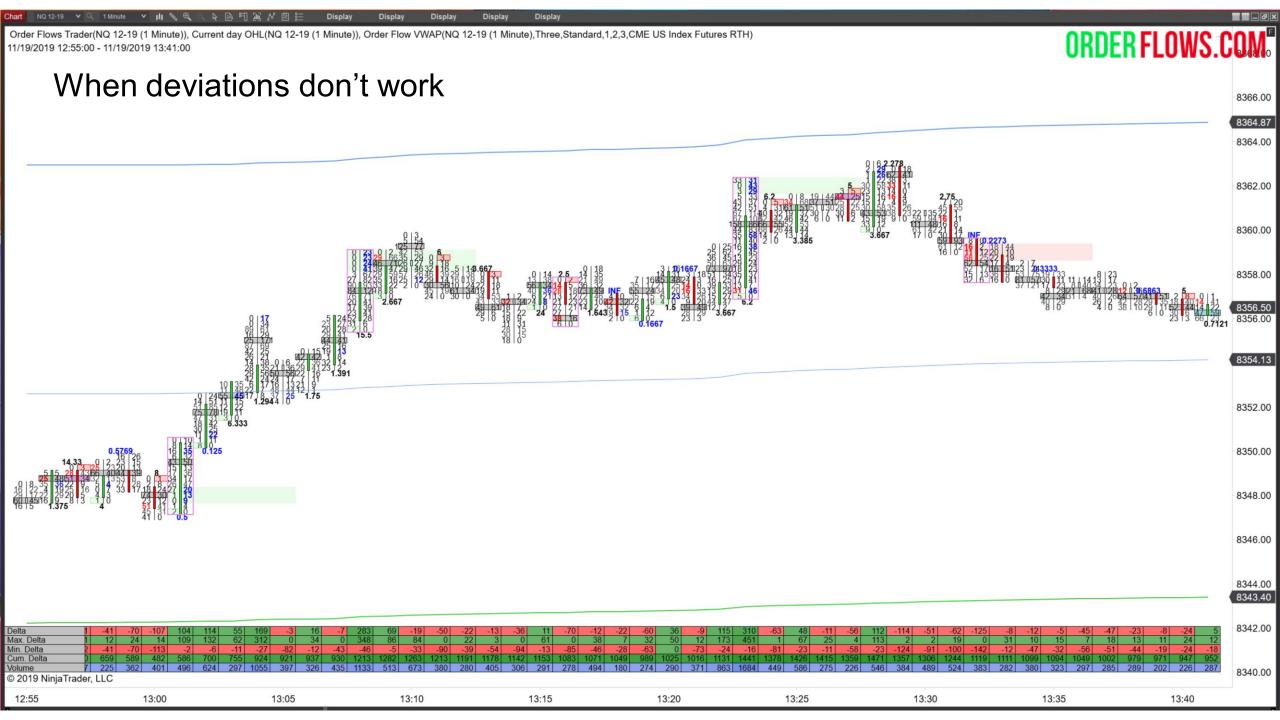


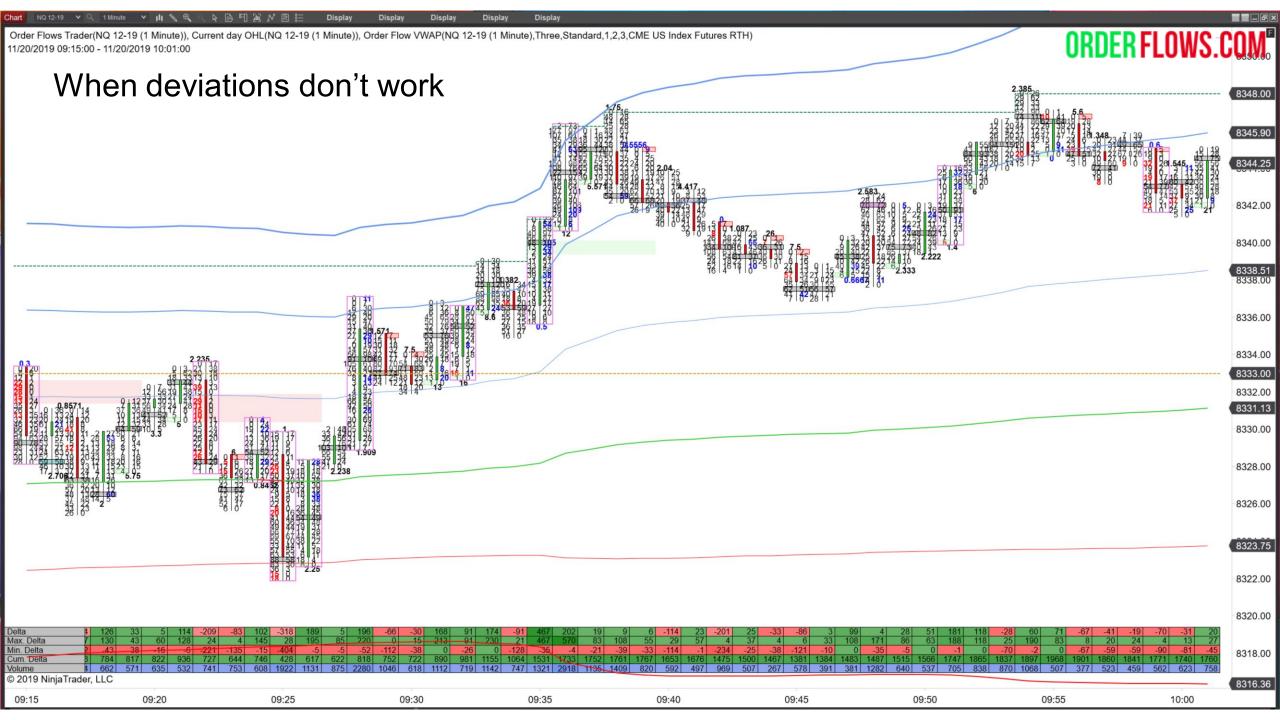


A lot of traders prefer to use VWAP as support or resistance.

The problem with that is they are turning VWAP into something it is not really designed to be used for – essentially turning it into a moving average.

If that is how you use it and are making money with, good on you. Keep doing it until it doesn't work.







Non-trending days, where the market is hanging around VWAP for the first couple of hours of trading can provide some good trading opportunities.

When the market is rotating around VWAP, look for reasons to buy dips below VWAP or sell pops above VWAP. On these days the market tends to revert to the mean.

On trending days, trying to trade for a reversion to the mean will kill you.

How can you determine if it is going to be a reversion to the mean day or a trending day?

Look at the daily volume profile. What is the profile shape looking like? Look at the initial balance.

Look at the economic calendar or the FED calendar. Markets tend to keep quiet ahead of a big number or a FED meeting.

Look at the VWAP. Is the VWAP flat early?

Look at the deviations, are they moving higher or lower?

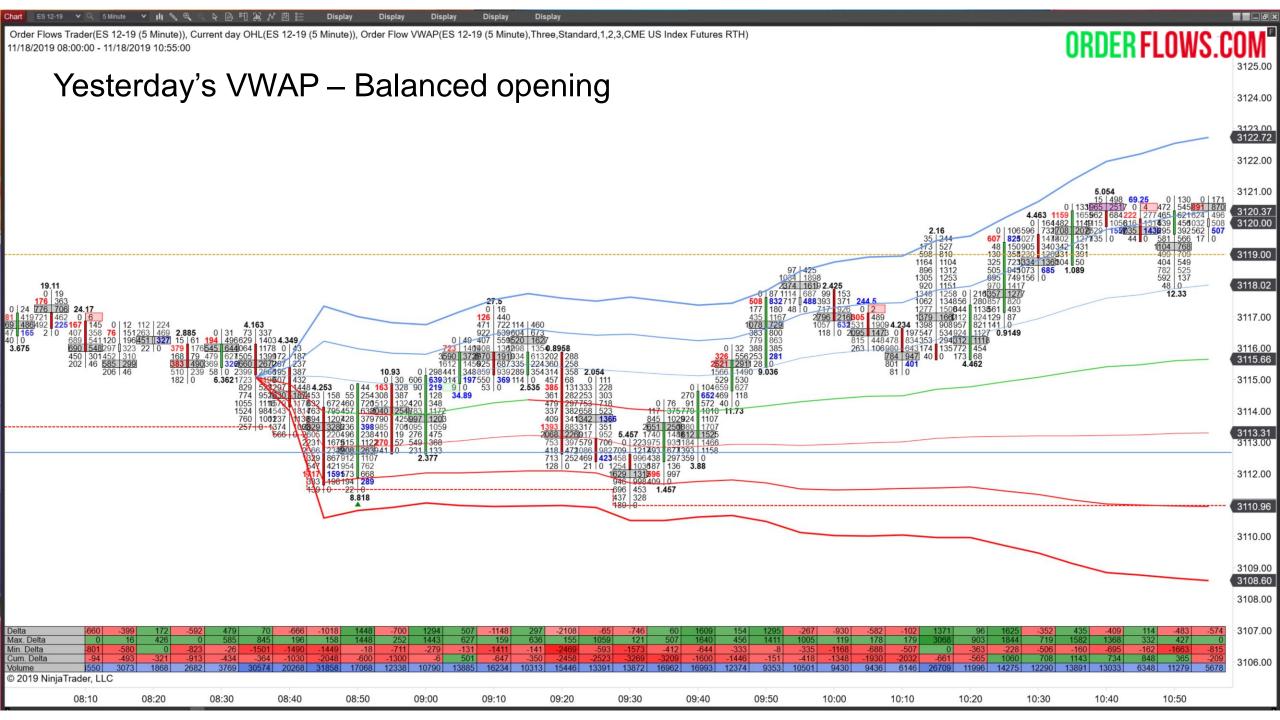
The cash opening is very important because it is an important reference for day traders. This is when traders start to determine if the market is in balance or out of balance.

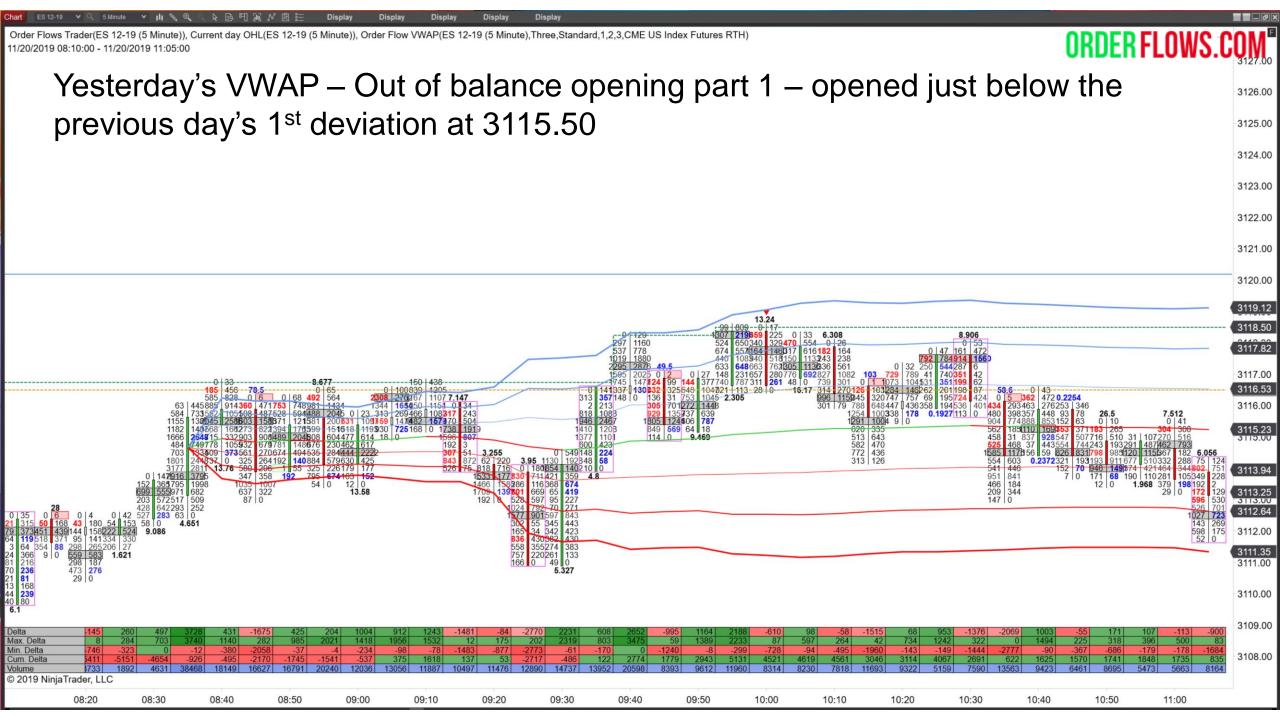
If the market is in balance, then the opportunities tend to be small.

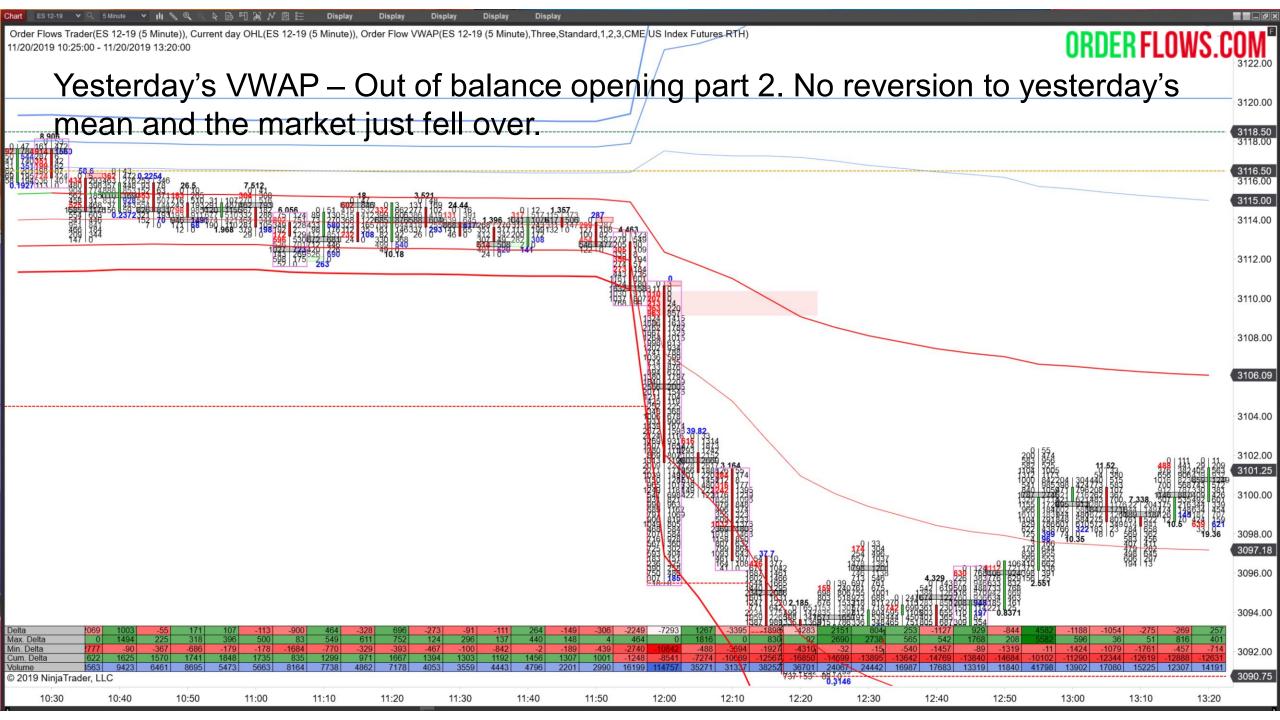
If the market is out of balance, then the market has a chance to make a decent move looking for balance.

Want to know an easy way to know if we are opening cash in balance?

Look at yesterday's VWAP.





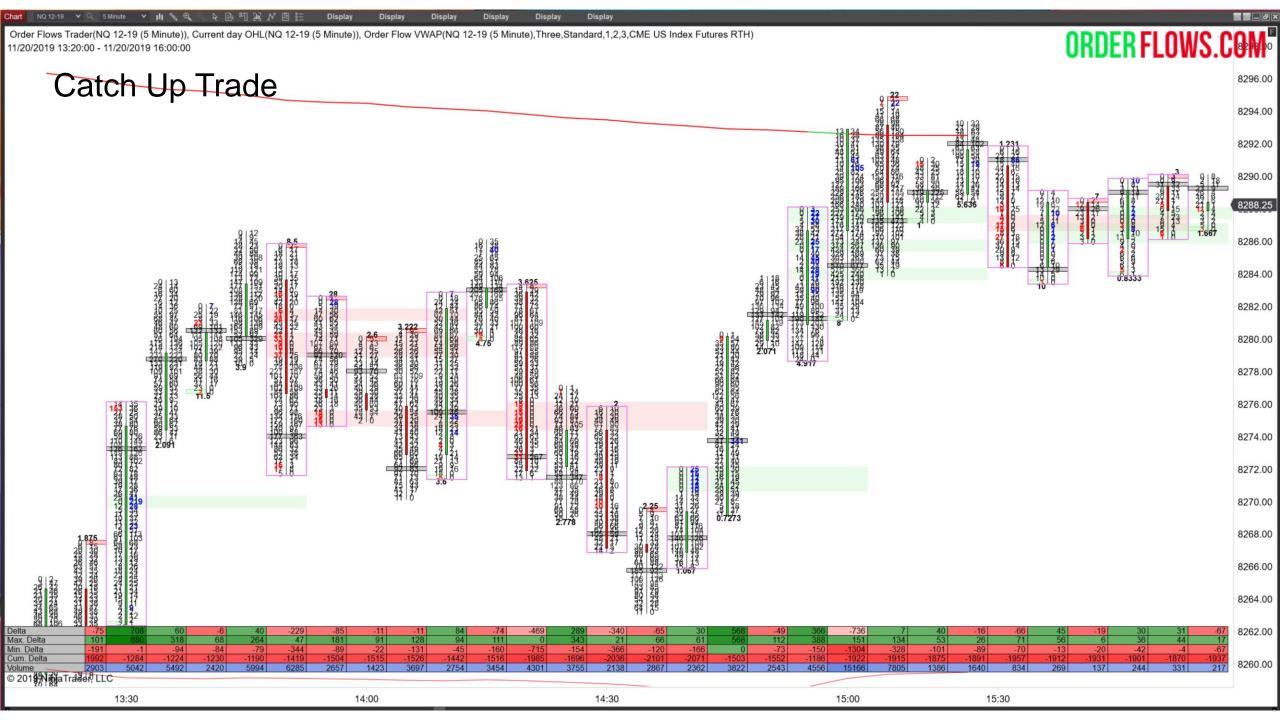


How do I like to trade around VWAP. I trade the catch-up trade. I talk about it in the trade setup module.

The most important part or aspect of VWAP that many traders fail to realize is late in the day, VWAP tends to flatten and doesn't move much anymore going into the last 1 to 2 hours of trading. Why? Because most of the day's volume has already traded. You get like maybe 15% of the day's volume in the last couple of hours of trade. That means 85% of the days volume has already traded and it would take a massive volume induced move to really affect VWAP.

Now imagine an institution having to buy 5000 ESZ9 VWAP over the cash session in a trending higher all day. They are most likely going to be behind VWAP because probably half their orders are going to be executed by lifting the offer since the market is running higher. Once the market shows weakness late in the day and makes a pullback towards VWAP, the algos can be a more aggressive and buy closer to VWAP or below VWAP.







Late Day VWAP moves. If we know VWAP flattens as the day goes on, that is something we can trade around.

