

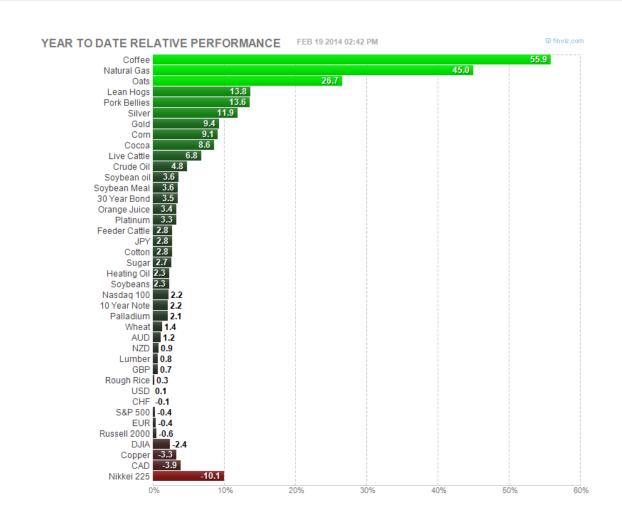




- Coffee markets:
- Volatile supply + stable demand + speculator trading = volatile prices

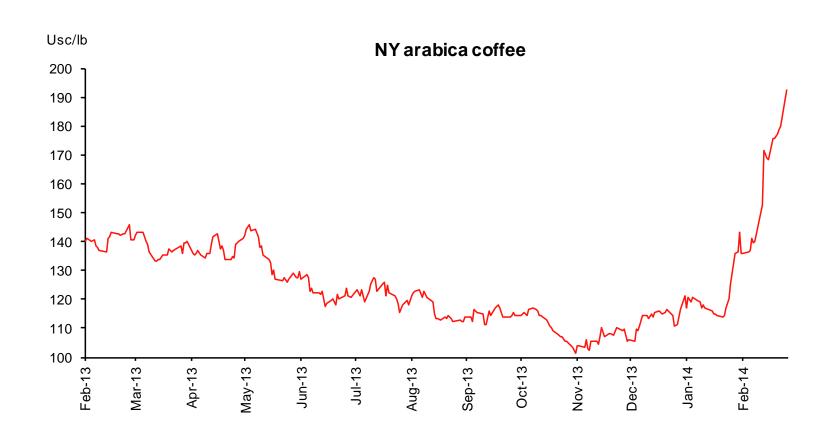


The best performing commodity this year so far



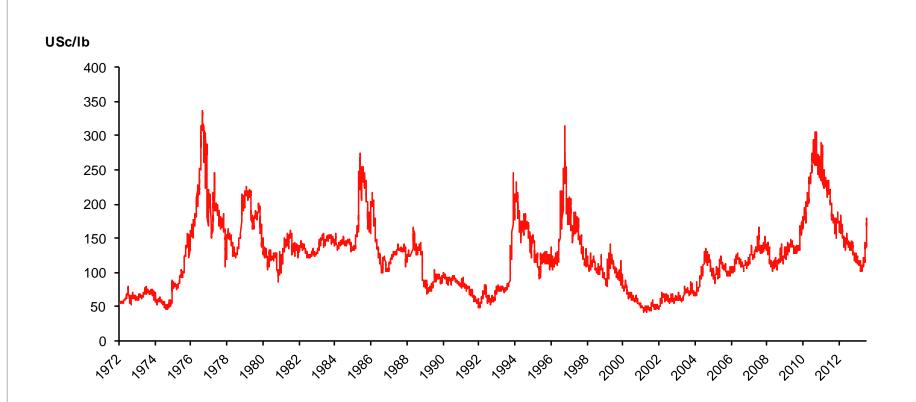


Huge price movements this year so far



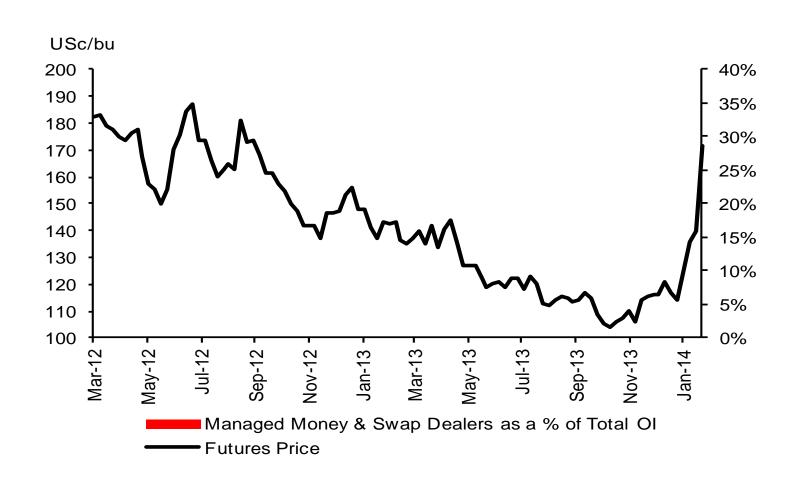


But we have been here before too, coffee markets are notoriously volatile



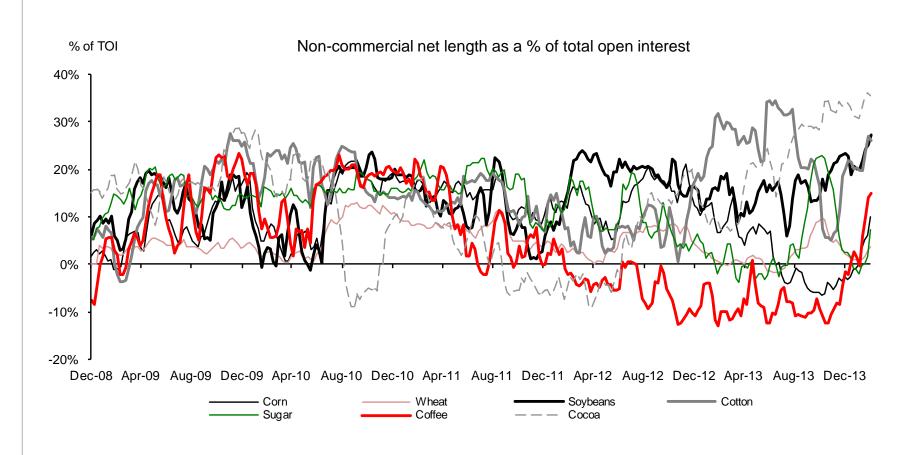


How much of this has been driven by the speculators?





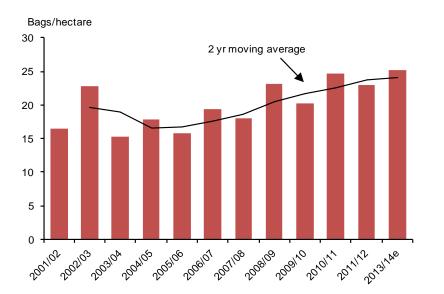
They are an active bunch, and are influenced by macro as well as fundamentals



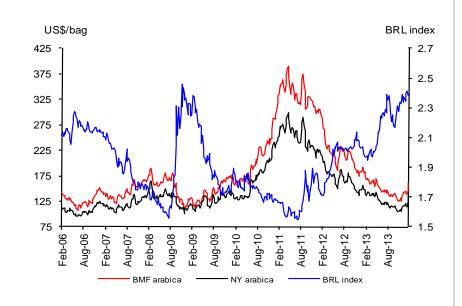


For coffee, Brazil's cyclical yield patterns as well as currency influence prices

Brazil's on/off cycle



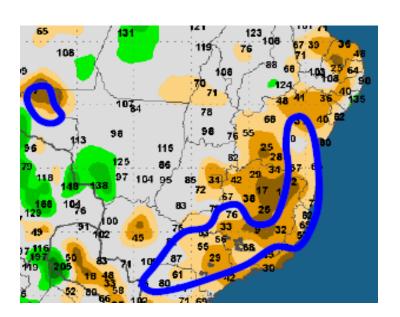
BRL vs USD



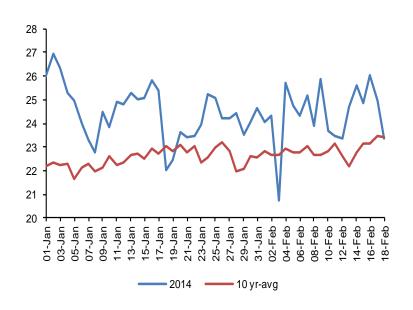


Hot and dry weather has led to sharp losses in Brazil's Arabica crop

Precipitation as % of normal past 45 days



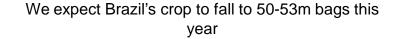
Temperatures have been well above average too



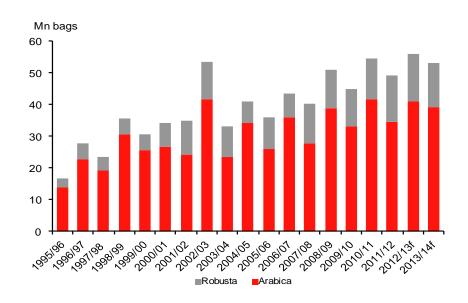


The final yield loss will only really be known at the de-husking or harvest stage

The beans may not have formed inside the cherries





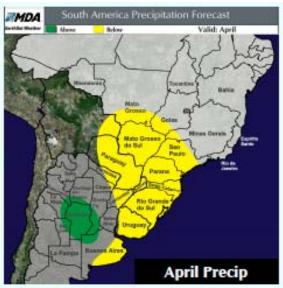


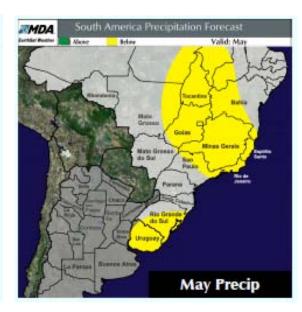


Until then, it's a weather market, so expect volatility to continue

The longer term weather forecasts are pointing to drier than normal weather through to May



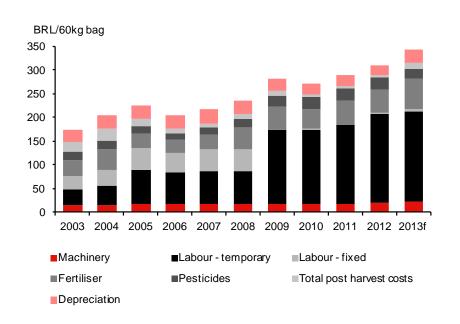




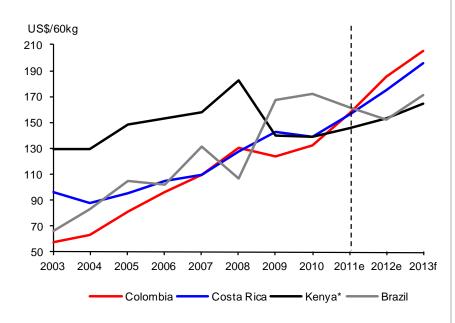


Costs of production of coffee have been rising steadily

Production costs breakdown in Brazil

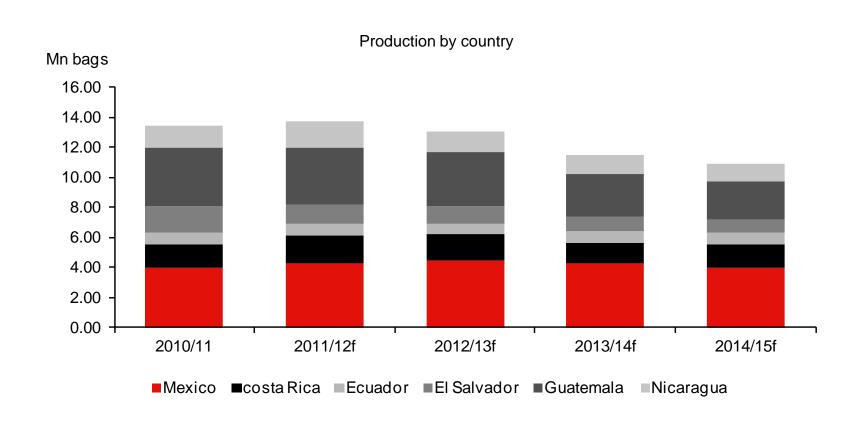


Costs by region





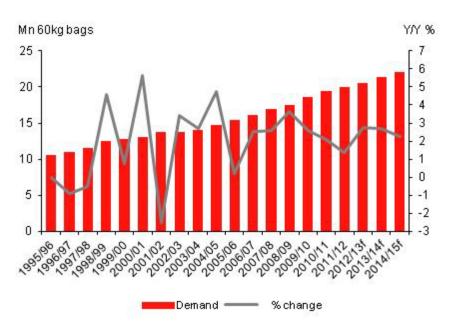
The roya fungus issue has plagued Central American coffee production



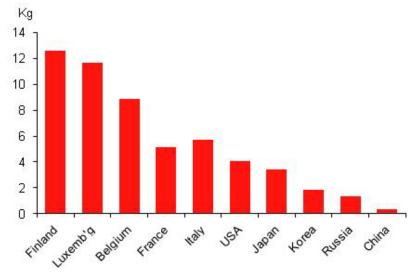


Demand tends to be fairly stable, although the potential upside is huge

Global coffee demand vs growth

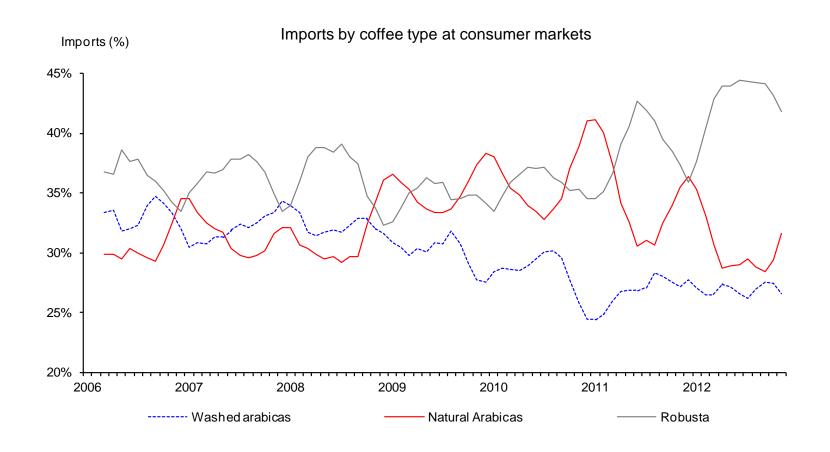


Per capital consumption by country





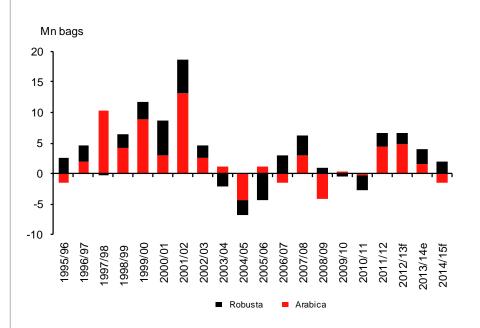
Price movements can prompt some consumer switching between coffee types



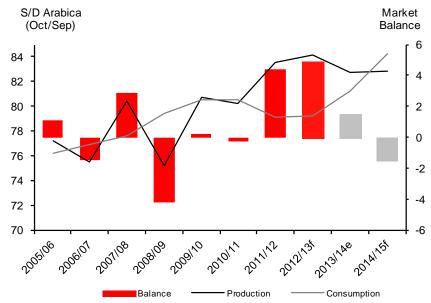


World coffee supply/demand balance

Combined coffee S/D balances



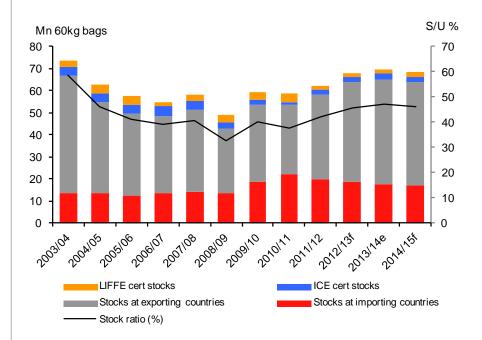
Arabica coffee S/D balance



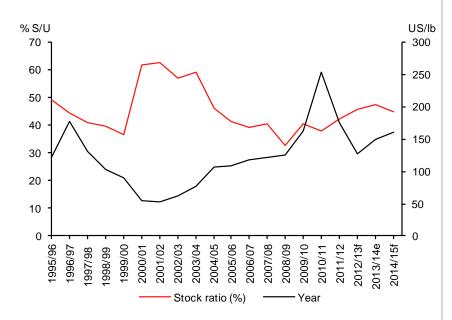


As we potentially move to a deficit, stocks will draw down, causing prices to rise higher

World coffee stocks



Coffee stocks vs prices





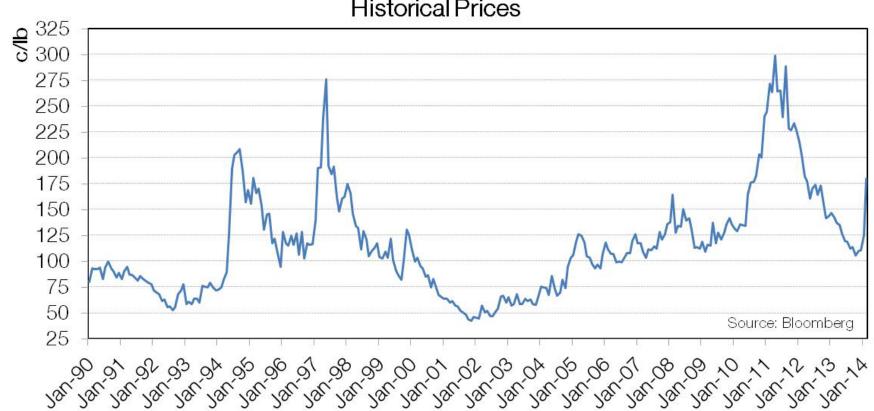


So how do we cope with such uncertainty and volatility?



Where we are now

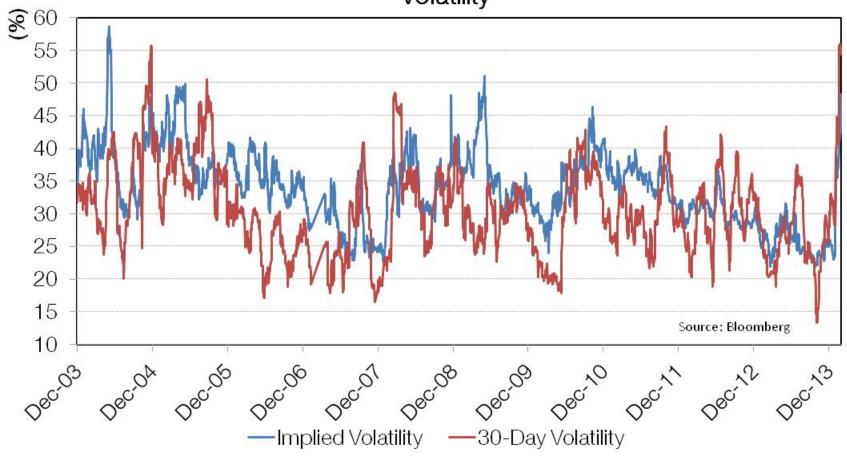
ICE "C" Coffee - First Contract Historical Prices





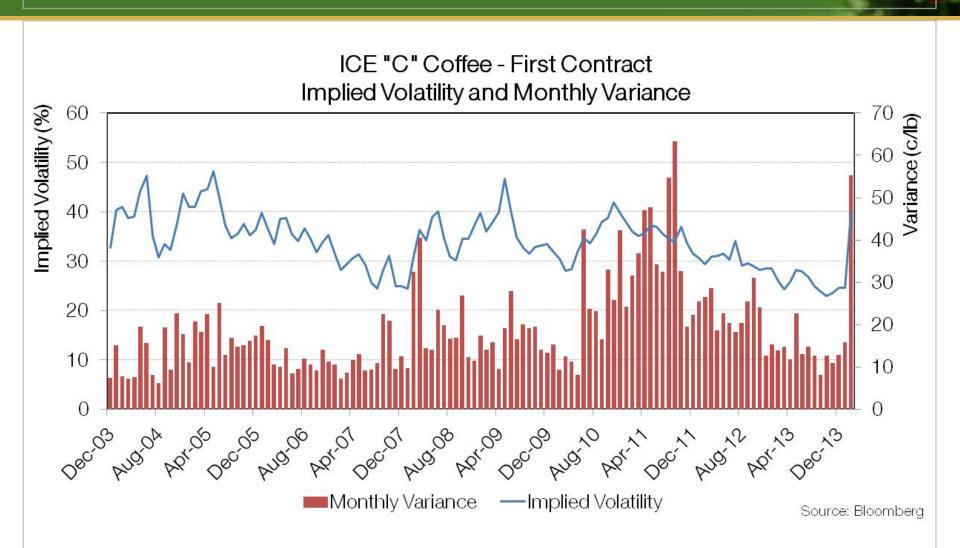
What Do We Mean By Volatility?







Variance Versus Volatility



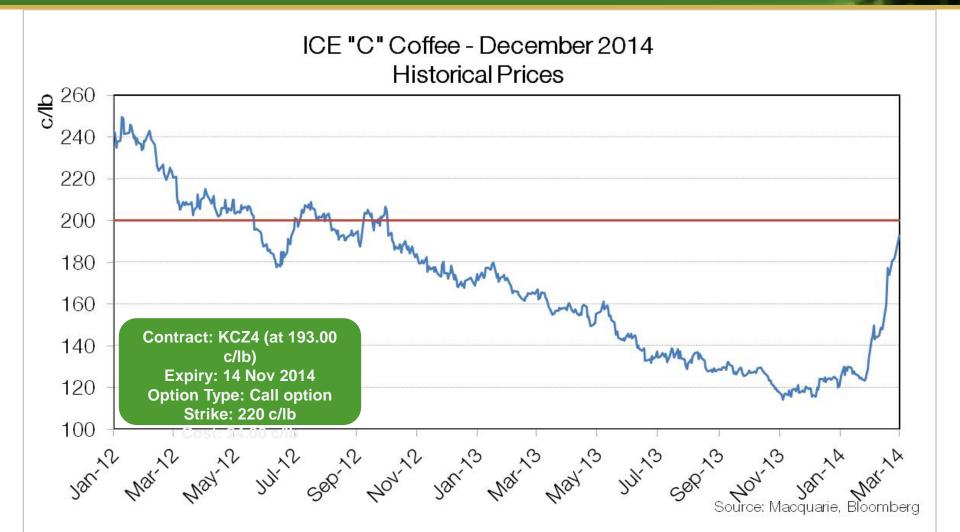


Ways to Cope With Price Volatility

- Do nothing and hope for the best.
- Punt try to pick the bottom of the top.
- Let consumers, producers, or the tax payer bear the risk.
- Understand your enterprises profit drivers.
- Create an overarching risk management policy and strategy
- Buy volatility
- **■** Use structures.
- Diversify



Buying Volatility Vanilla Call Option





Buying Volatility Vanilla Put Option

ICE "C" Coffee - December 2014 Historical Prices





Buying Volatility

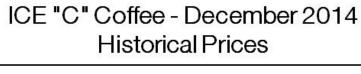
Reducing premium to be paid







Producer Structure Trigger Reset







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