INTL-FCStone®

MANAGING PRICE RISK

An Introduction to Cocoa Futures Markets







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PROGRAM

- Introduction to INTL FCSTONE
- The Commodities Market
- Hedging Theory
- Empowerment!
- Instruments
- Currencies

INTL-FCStone®

INTL FCStone®

Servidos

Agriculture	Precious Metals
Energies	Industrial Metals
Fuel Charges	Dairy and Cheese
Cotton / Textiles	Forest Products
Renewable Energies	Freight
Stocks and ADR	Livestock
Renewable Fuels	Foreign Exchange

INTL FCStone®

GLOBAL PRESENCE



USA

New York (HQ) Bloomington **Bowling Green** Chicago Des Moines Denver Indianapolis Kansas City Lawrence

Miami Minneapolis Nashville Omaha Orlando St. Louis Spirit Lake Denver

International Asunción

Beijing **Buenos Aires** Campinas Ciudad del Este São Paulo Dubai Dublin Goiania

London Maringá Porto Alegre Recife Shanghai

Singapore

Sydney Winnipeg Bogota Mexico D.F..

The Stock Market



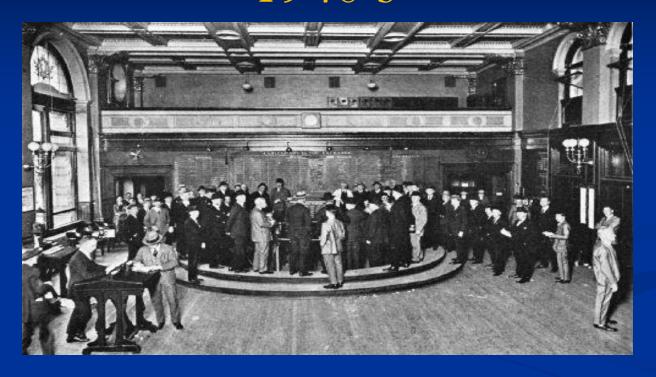




The Stock Market



NY Cocoa Futures Exchange 1940's





VIDEOS

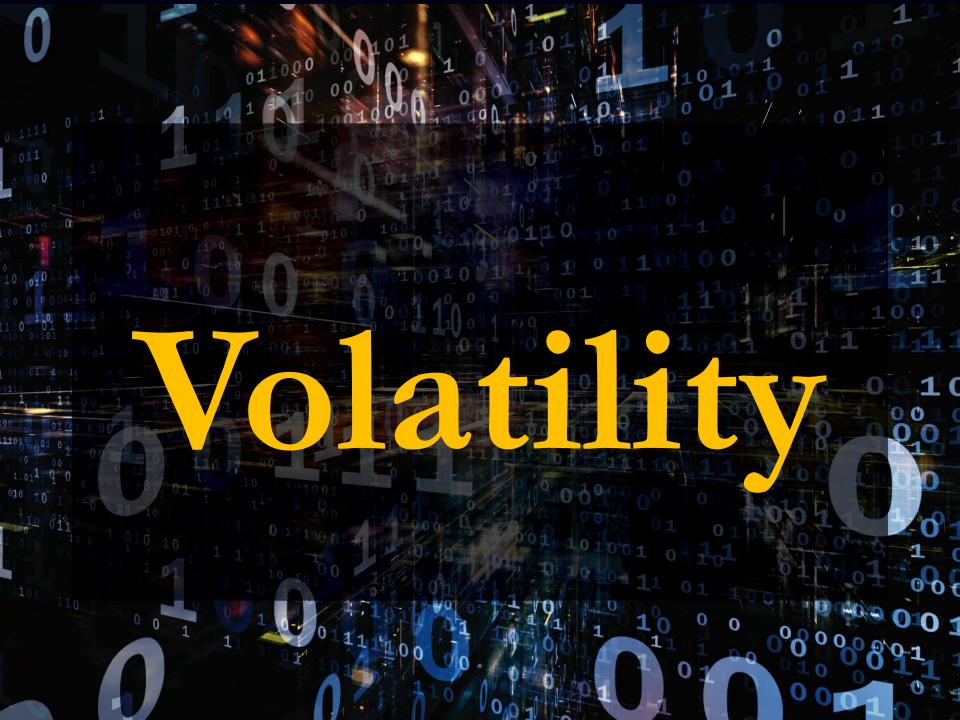




WHY DO WE HEDGE? (PROTECT)

HEDGING

"THE TRANSFER OF RISK"



VOLATILITY DEFINITION

Volatility refers to the amount

RISK or UNCERTAINTY

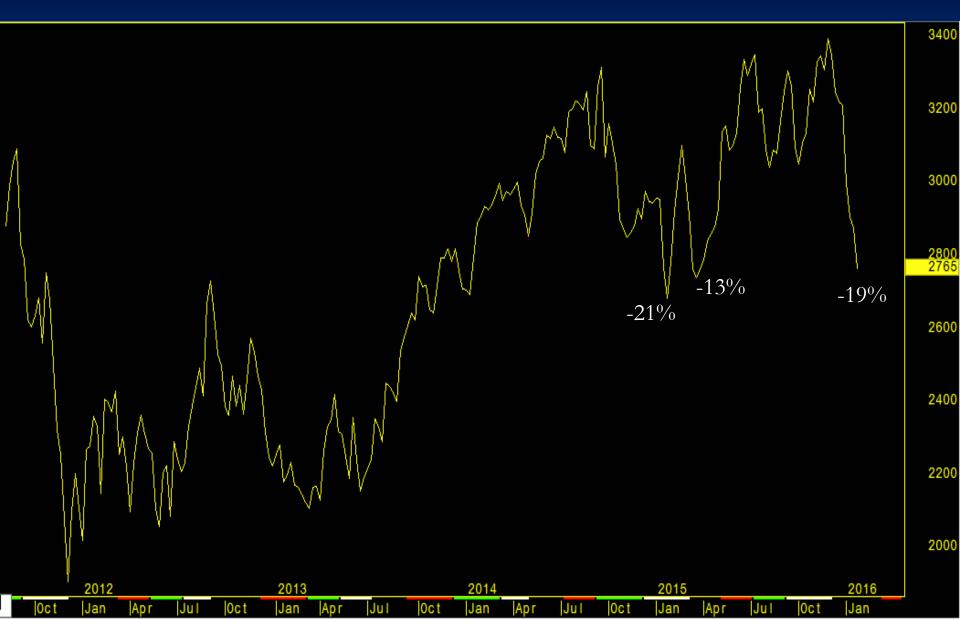
Over the changes in the values of a Product

VOLATILITY

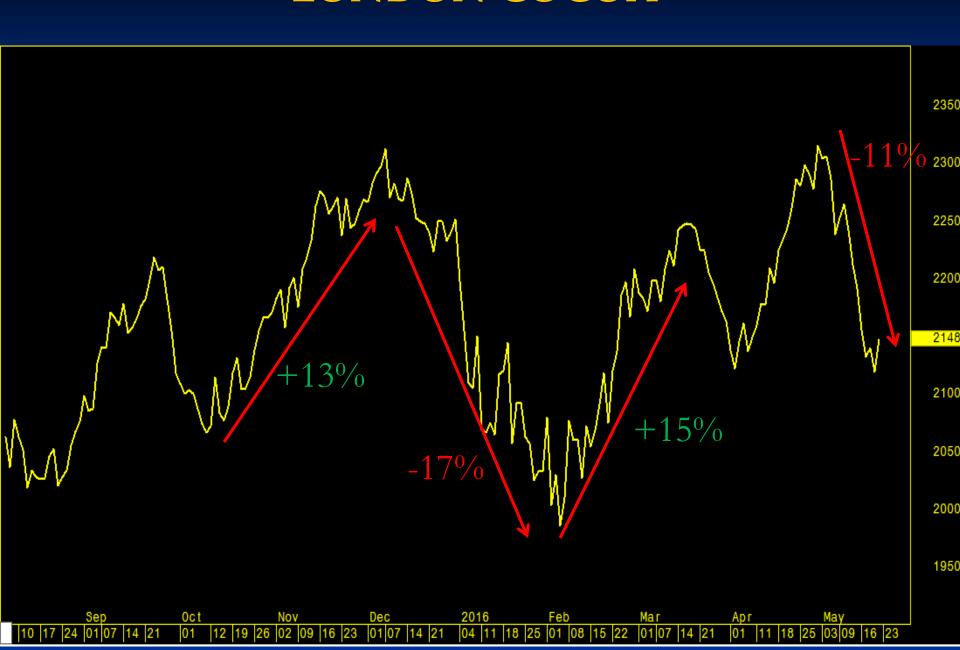
MY DEFINITION

"HEADACHES"

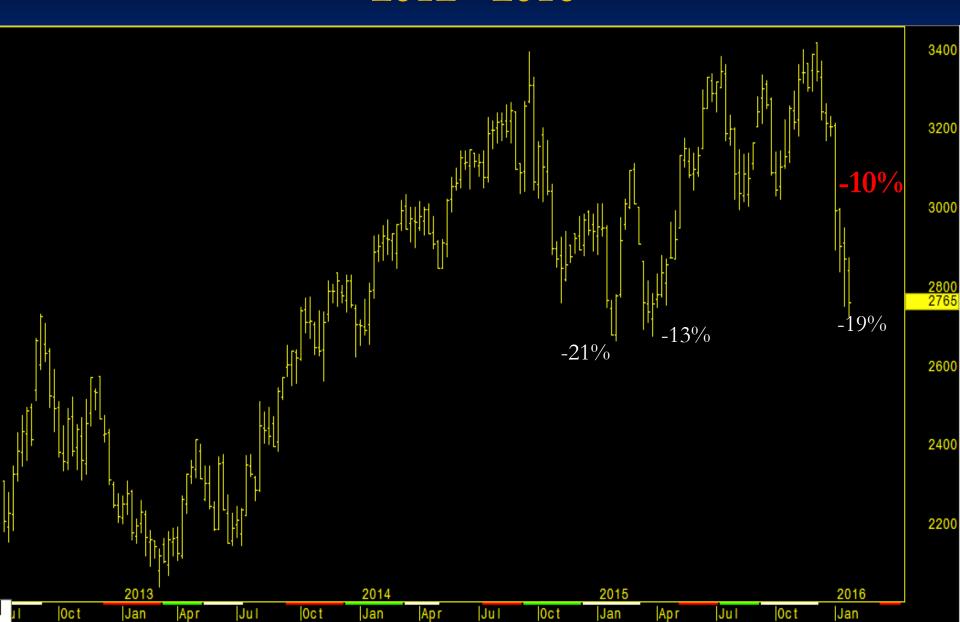
COCOA-NY 2012 - 2016



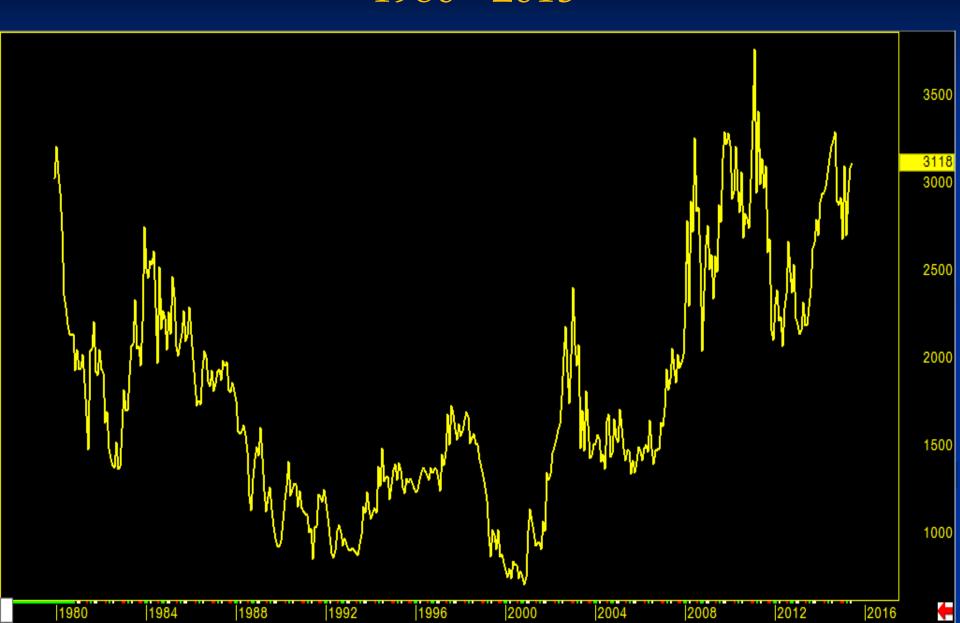
LONDON COCOA



COCOA-NY 2012 - 2016



COCOA-NY 1980 - 2015

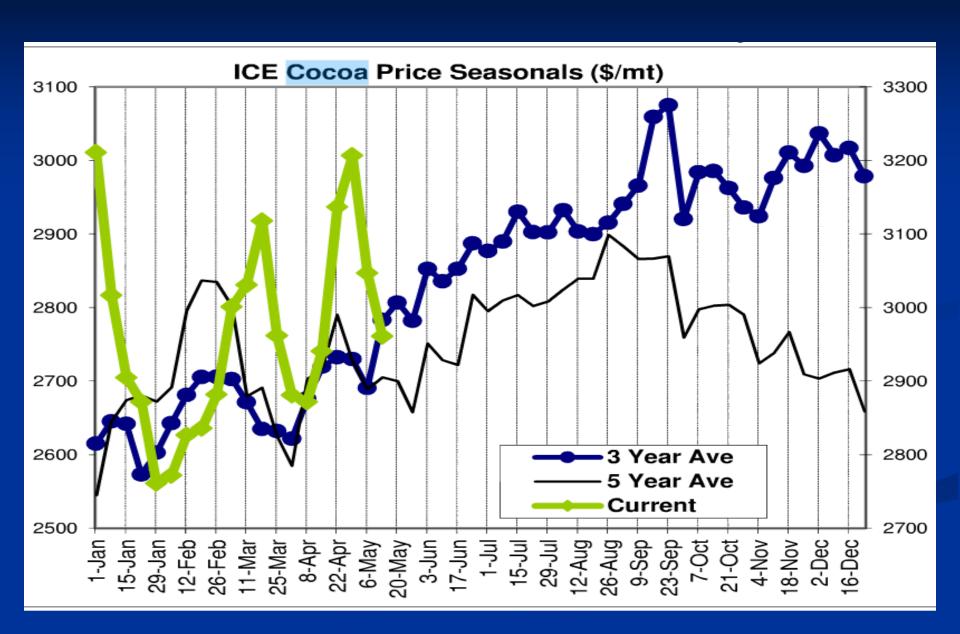


WHY IS IT VOLATILE?

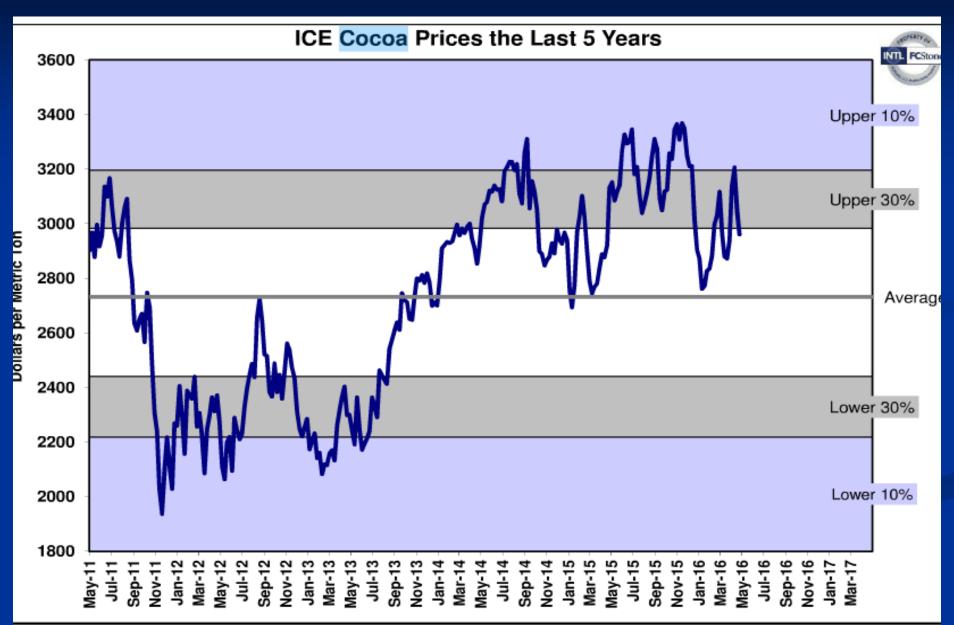
- 1) WEATHER
- 3) SUPPLY and DEMAND Concerns
- 2) MACRO ECONOMICS/ POLITICAL

UNCERTAINTY

COCOA SEASONALS



COCOA PRICE PERCENTILE RANGES LAST 5 YEARS



The Commodities Boom

The New Investment Vehicle

























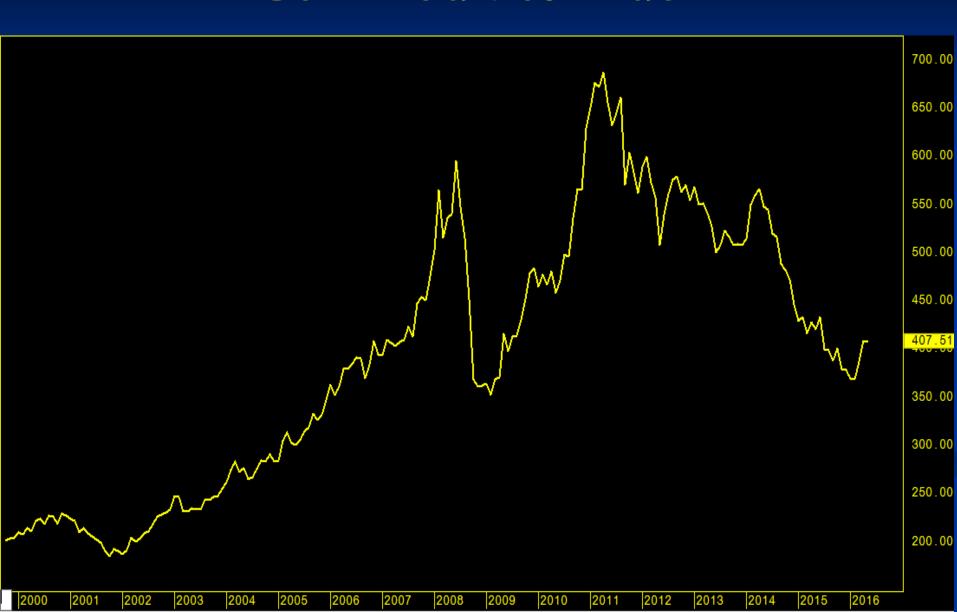


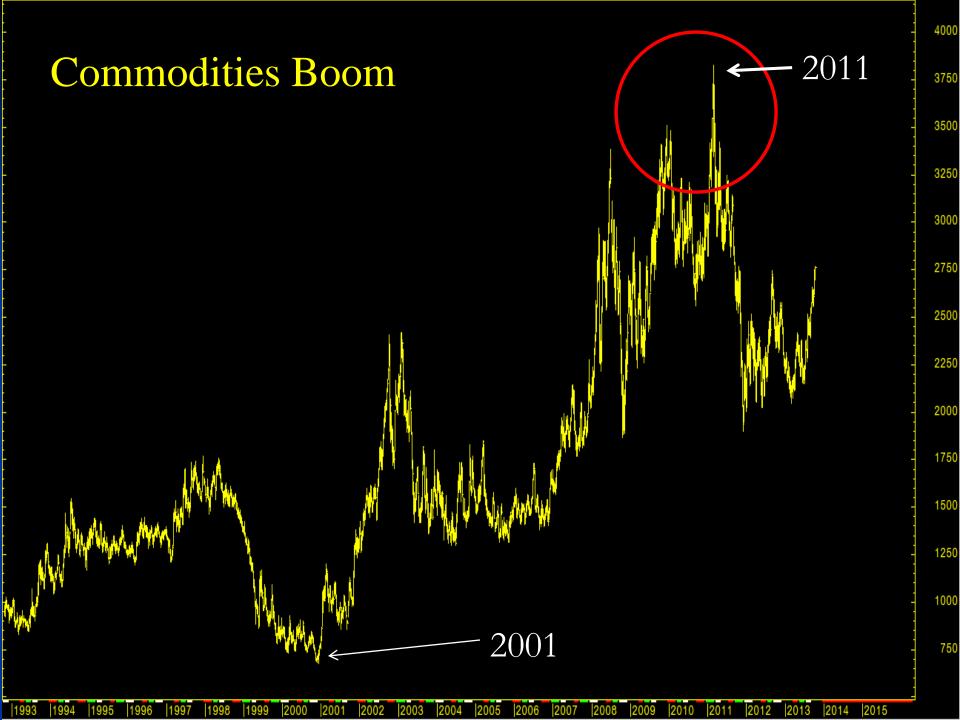


US DOLLAR



Commodities Index





PRICES

- Milk
- Fuels
- Meats
- Breads
- Cereals
- Orange Juice
- Cotton

- Equipment
- Coffee
- Edible Oils
- Mantequilla
- Metals
- Fruits

COCOA!

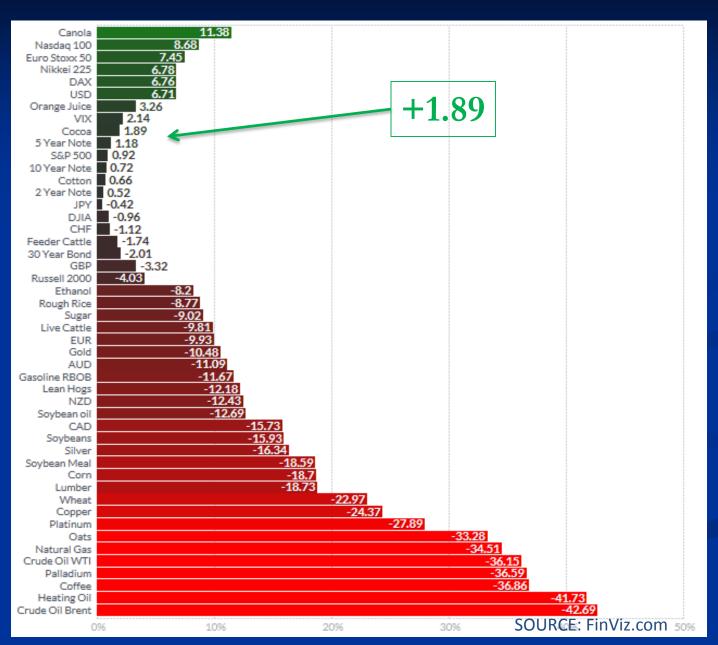


Commodities Super Cycle

12-14 years of a Bull Market 18-20 years of Dormancy

- 1970 1982 Commodities boom
- 1982 2001 Dormancy period
- 2001 2014 Commodities boom
- 2014 ? Start of Dormancy period?

Commodities in 2015



COMMODITY EXCHANGES

PRICING MECHANISMS

STOCK MARKET

A Share of a Company

COMMODITIES MARKET

A Futures Contract

The Futures Contract

The Central Pricing Mechanism for most of the world's Raw Materials

A legally binding agreement, to buy or sell a commodity sometime in the future.

Commodity Futures Markets Exchanges

1730	RICE
	1730

- Chicago 1848 CBOT
- Frankfurt 1867 Various
- New York 1872 Cotton
- London 1877 Various
- New York 1882 Coffee
- New York 1925 Cocoa
- New York 1914 Sugar

Economic Function of the Futures Markets

Price determination of the basic raw materials in the world markets.

 Used as risk transfer vehicle for the underlying Commodity

A HEDGE

Used as an Investment Alternative.

COCOA EXCHANGES

New York

\$ USD

ICE US

London

£, UK

ICE EUROPE

Chicago

€ EU

CME

The New York Cocoa Futures Contract (ICE US)

■ 10 M/T Cocoa

- Delivery:
 - March, May, July, Sept., Dec.

- Price Quotes
 - US\$ / MT

Market Hours

4:15AM — 1:30PM (New York)

Futures & Options

El London Cocoa Futures Contract (ICE Europe)

■ 10 M/T de Cacao

- Delivery:
 - March, May, July, Sept., Dec.

- Price Quotes
- £ / M/T
- Market Hours

9:30AM - 4:50PM (LONDON)

Futures & Options

The Euro Cocoa Contract (Chicago Mercantile Exchange)

■ 10 M/T Cocoa

- **Delivery:**
 - March, May, July, Sept., Dec.

- Price Quote
- Market Hours
 9:00AM 4:50PM (LONDON)

Futures & Options

Market Participants

Hedgers

Speculators

"Investors"

HEDGERS

- Producers
- Middlemen
- Exporters
- Importers
- Physical Brokers
- Industry
- Final Users

SPECULATORS 'Investors'

- Small Speculators
 - Self guided traders, personal accounts

HFT high Frequency /Systems / Algorithmic Traders

- Large Speculators
 - Managed Money "Guided Accounts"
 - Hedge Funds "Traditional"
 - High net worth individuals
 - Index Funds for Commodity Investors

INSTRUMENTS

INSTRUMENTS

■ 1) Futures Contract

2) Options Contract (Insurance Policy)

3) Structured Products

4) Currency Forwards

Accessing the Markets

Opening of an Account

Commission House

Specialized Broker

Account opening documentation

Initial Deposit

Margins

- Good Faith Deposit
- Risk Barometer

- Margins
 - Initial
 - Variation

Accessing the Markets

Two Account Types

1) Futures and Options Account

2) Structured Products Account

CUSTOMER



SIMPLE FUTURES ACCOUNT



STRUCTURED PRODUCTS
ACCOUNT

1) Futures Account

• No minimum financial requirement

• Quick account opening

Futures and Options only

Standardized contracts only

2) Structured Products Account

- Minimum financial requirement
 - \$1M Equity
 - \$10M Total Assets

PRODUCTS:

-Futures -Exotic Options

-Options -Currency Forward Options

-Fractions -Conditional Stops

-Futures Structures -Commodity Pricing in Euros

-Currency Forwards -Programmed Buying/Selling

-Variable Options -Currency Structures

Regulatory Agencies

N.F.A. National Futures Association

C.F.T.C.- The Commodity Futures Trading
 Commission

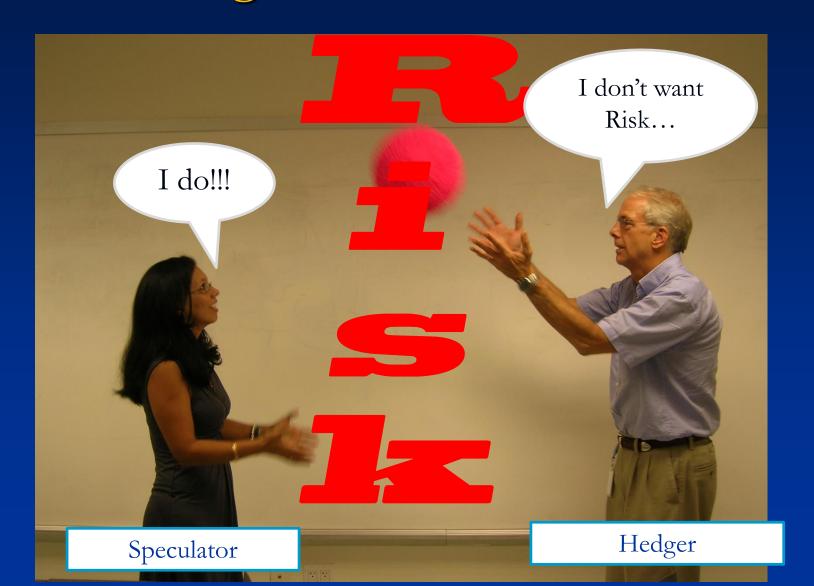
United States Congress

HEDGING

"The Transfer of Risk"

Softs						[Grains									
Name	Month	Symbol	Last	Chan	ge	High	Low	,	Name	Month	Symbol	Last	Change	High	Low		
Coffee	May 13	KCK3	135.45	35.45 +1.00		136.00	134.50		Corn	May 13	ZCK3	648-4	+1-6	648-4	641-0		
Coffee	Jul 13	KCN3	136.85	+0.75	+0.75		136.10		Corn	Jul 13	ZCN3	628-6	+0-6	628-6	621-6		
Coffee	Sep 13	KCU3	139.30	+0.65	+0.65		138.65		Corn	Sep 13	ZCU3	557-2	+0-4	558-2	552-0		
Cocoa	May 13	CCK3	2274	+31		2285	2232		Soybeans	May 13	ZSK3	1407-6	+12-6	1409-6	1389-0		
Cocoa	Jul 13	CCN3	2292	+25	+25		2257		Soybeans	Jul 13	ZSN3	1366-0	+10-0	1368-0	1350-4		
Cocoa	Sep 13	CCU3	2301	+24		2310	2267		Soybeans	Aug 13	ZSQ3	1321-2	+7-0	1322-4	1310-2		
Sugar #11	May 13	SBK3	17.92	+0.13	+0.13		17.74		Soybean Meal	May 13	ZMK3	397.5	+4.2	398.4	392.0		
Sugar #11	Jul 13	SBN3	17.74	+0.19	+0.19		17.54		Soybean Meal	Jul 13	ZMN3	393.1	+3.6	394.2	388.0		
Sugar #11	Oct 13	SBV3	18.09	+0.16	+0.16		17.90		Soybean Meal	Aug 13	ZMQ3	377.4	+1.3	379.0	375.1		
Orange Juice	May 13	OJK3	147.55	-1.55	-1.55		146.20		Soybean Oil	May 13	ZLK3	48.66	+0.48	48.71	48.00		
Orange Juice	Jul 13	OJN3	146.75	-1.55	-1.55		145.50		Soybean Oil	Jul 13	ZLN3	48.86	+0.50	48.89	48.18		
Orange Juice	Sep 13	OJU3	144.65	+4.30	+4.30		142.50		Soybean Oil	Aug 13	ZLQ3	48.87	+0.50	48.87	48.20		
Cotton #2	May 13	СТКЗ	84.12	-0.21			84.02		Wheat	May 13	ZWK3	695-0	+1-2	698-0	689-6		
Cotton #2	Jul 13	CTN3	85.81	-0.31			85.64		Wheat	Jul 13	ZWN3	699-6	+0-4	703-2	695-0		
Cotton #2	Oct 13	CTV3 84.95				84.95	84.95		Wheat	Sep 13	ZWU3	705-6	-00	709-0	701-0		
Financials						[
Name	Month Symbol Last		Change		High	Low	, –	Energies		0 1 1			Ol				
10-Year T-Note		ZNM3	132-53	-014	ige	133-17	132-51		Name	Month	Symbol		Change	High	Low		
10-Year T-Note		ZNU3	132-23			132-23	132-23		Crude Oil Brent		СВМЗ	99.91	-0.72	100.37	98.00	-	
T-Bond	-	ZBM3	147-13		+0-06				Crude Oil Brent		CBN3	99.92	-0.62	100.36	97.95		
T-Bond	Jun 13		146-20		-017		147-11		Gasoline RBOB	May 13	RBK3	2.7581	+0.0005	2.7620	2.7036		
	Sep 13				-016		146-19		Gasoline RBOB	Jun 13	RBM3	2.7596	-0.0011	2.7629	2.7069		
	Dollar Index Jun 13 Dollar Index Sep 13		82.140	-0.367			82.065		Heating Oil	May 13	HOK3	2.8052	-0.0240	2.8151	2.7712		
				-0.447		82.775 1.31540	82.235		Heating Oil	Jun 13	НОМЗ	2.8014	-0.0208	2.8117	2.7690	▼	
Euro FX	Jun 13	E6M3 E6U3	1.31470		+0.01020		1.30310		Indices								
Euro FX			1.31600		+0.01060		1.30590		Name Month		Symbol	Last	Change High		Low		
BMF US Dollar			1989.500				1987.50		DJIA	Jun 13	DJM3	14512	-0	14733	14512	<u> </u>	
BMF US Dollar	Jun 13	XDM3	1999.500			1999.500	1999.50		S&P 500 Index	Jun 13	SPM3	1559.10	+15.60	1559.50	1543.80		
Mexican Peso	May 13	M6K3	0.081475			0.082375	0.08147		BMF Bovespa In	d Apr 13	XIJ3	53690	+679	53830	53540	=	
Mexican Peso	Jun 13	М6МЗ	0.081875	+0.000	0625	0.081900	0.08097	75	DAX Index	Jun 13	DYM3	7724.5	+4.0	7729.0	7647.0		
Currencies									DJ-UBS Industri		LZM3	136.25p	unch	0.00	0.00		
Symbol Last		Chan	Change		High L		Time		Euro Stoxx 50	Jun 13	FXM3	2569.0	+5.0	2571.0	2541.0	▼	
-	.31405		+0.01064 1.3		1.30		07:32:09		Metals								
^GBPUSD 1	.53171	+0.0034	3 1.5	3281	1.52	720	07:32:09		Name	Month	Symbo	Last	Change	High	Low		
^AUDJPY 1	.01.727	+1.957	101	.792	99.5	90	07:32:09		Gold	Apr 13	GCJ3	1391.0	+30.4	1401.0	1323.0		
	.34134	+0.0049		4320	1.33		07:32:09		Gold	-		1392.5	+31.9	1402.9	1322.1		
	.92569	-0.00534		3262			07:32:09			May 13	GCK3						
	8.013	+1.246		059	95.8		07:32:09		Gold	Jun 13	GCM3	1392.9	+31.8	1404.2	1321.5		
	2.1496	-0.1298		2820	12.1		07:32:09		Palladium	Apr 13	PAJ3	675.00	+9.15	675.00	675.00		
	.21644	+0.0025			1.21371		07:32:09		Palladium	May 13	PAK3	668.50	+2.10	668.50	668.50		
	.85785	+0.0023					07:32:09		Palladium	Jun 13	PAM3	679.50	+12.50	685.60	647.50		
- EURGBP (.03/03	+0.0051	1 0.0	5000	0.85	221	07:32:09		Platinum	Apr 13	PLJ3	1434.3	+10.1	1441.3	1411.6		
									Platinum	May 13	PLK3	1424.4p	unch	0.0	0.0		
									Platinum	Jun 13	PLM3	1461.9	+37.3	1461.9	1433.7		
									Silver	Apr 13	SIJ3	23.355p	unch	0.000	0.000		
									Silver	May 13	SIK3	23.730	+0.369	23.975	22.000		
									Silver	Jun 13	SIM3	23.760	+0.385	23.975	22.085		

Hedging your price risk... ...is shifting it to someone who wants it



Economic Relationship

Processor
(Buys Physical Cocoa)

Producer/ Exporter
(Sells Physical Cocoa)

Short Physical (has to buy Cocoa)

Long Physical (has Cocoa to sell)

BUYS Cocoa Futures

SELLS Cocoa Futures

....More stability in the cash flows of your operations!

Scenario 1: Market Drops

<u>Processor</u> (Buys Physical Cocoa) Producer/ Exporter
(Sells Physical Cocoa)

Processor is losing money in Futures position BUT making money in physical purchases Producer is selling cocoa cheaper in the physical market BUT making money in their futures position



Scenario 2: Market Rallies

Processor
(Buys Physical Cocoa)

Producer/ Exporter
(Sells Physical Cocoa)

Processor is losing money by purchasing physical Cocoa at a higher price BUT making money in their futures position Producer is making money in physical Cocoa BUT losing money in his futures position



Basic Elements of Hedging

- No ownership Change
- Added flexibility in changing market conditions
- Futures markets maintain a positive correlation with the physical

LONG HEDGE

■ May 24 Price Sept Cocoa futures = £ 2.150

Processor (buyer) foresees need for 100 M/t July & August **Hopes to pay** \oint 2.150

HEDGE

Buy 20 July futures @ £ 2.150

August 1st Price Sept. Futures = £ 3.000Increase cost of £170.000,00

Hedge supplemented the £170.000,00

Futures Account

Market at **£3.000**



Futures Account

SHORT HEDGE Producer

May 24

Price Dec. Cocoa futures = US\$ 2.950

Cocoa Producer needs to secure 100 M/t of production

HEDGE

Sell 10 December futures (a) \$2.950

October 30th

Price December Futures = \$2.100

■ Income loss of \$180,000.00

Hedge supplemented the \$180.000.00

Futures Account

Futures Account





Commodity Options "Insurance Policies"



INTL-FCStone®

"INSURANCE PRODUCTS" OPTIONS

- Convey the Right to BUY or SELL for
- A Specific Futures and Commodity Product
- For a pre-determined time frame
- For a pre-determined price

"AN INSURANCE POLICY"

OPTIONS "INSURANCE PRODUCTS"

TWO TYPES

CALLS = The Right to Buy

Price Rise Insurance

&

PUTS = The Right to Sell

Price Drop Insurance

PURCHASING Price Rise Insurance "CALLS"

CALLS = Acquires right to buy

- Acquires the right,
- but not the obligation
- to purchase a specific futures contract
- at a specified price
- within a specified time

BUYER SCENARIO Price Rise Insurance

- Supply & Demand Concerns
- Possible weather concerns in Ivory Coast
- With only 2 months fixed
- Concerned with further drought fears
- Would like to protect without actually buying more Cocoa



Cocoa Producer

Cocoa unsold

Protect against falling prices with PUT Options

"Price Drop insurance"

"Price Drop Insurance" PUT OPTIONS



OPTIONALITY "Being Creative"

"Variable Sales"

"Variable Purchases"

"Covered Purchases"

"Variable Sales"

"Variable Sales" Concept

- Market in a downward trend
- Producer does not sell in hopes of higher prices
- Producer looking for a strategy that can provide a minimum floor on prices in case of further price drops
- but with an Upside potential in case of a Rally in market prices

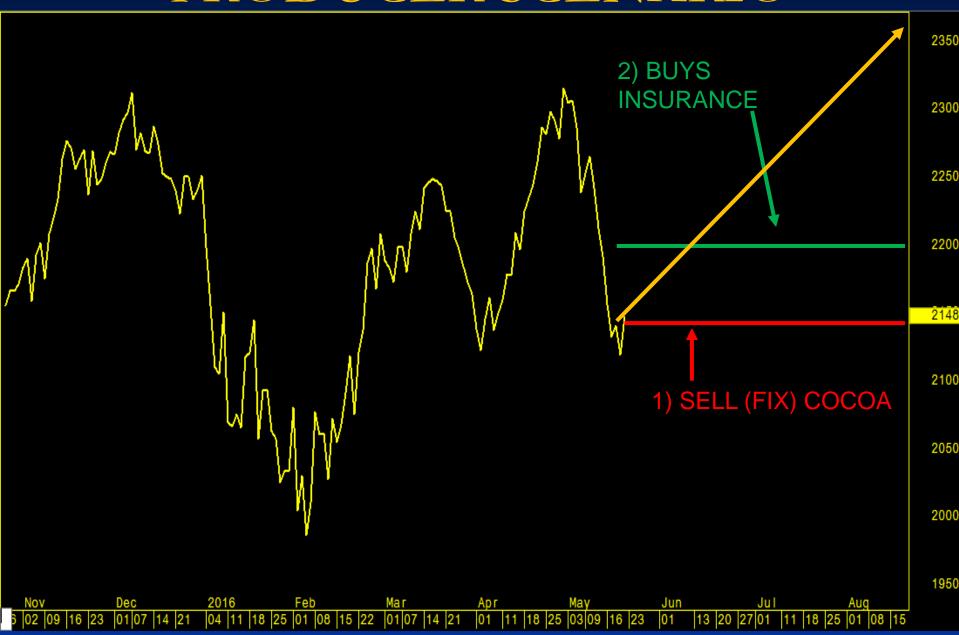
PRODUCER SCENARIO Price Rise Insurance

Sell Cocoa (FIX-The-Price)

Buy Price Rise Insurance in case of a drought in order to increase the effective selling price.

"Variable Sales"

PRODUCER SCENARIO



PRODUCER ACCOUNT

Sells Cocoa

2.150

Fixed Price

■ INS. Cost

<u>50</u>

100_ Day Price Ins. at 2.200

Selling Price

2.100

Variable Price

Price Move to

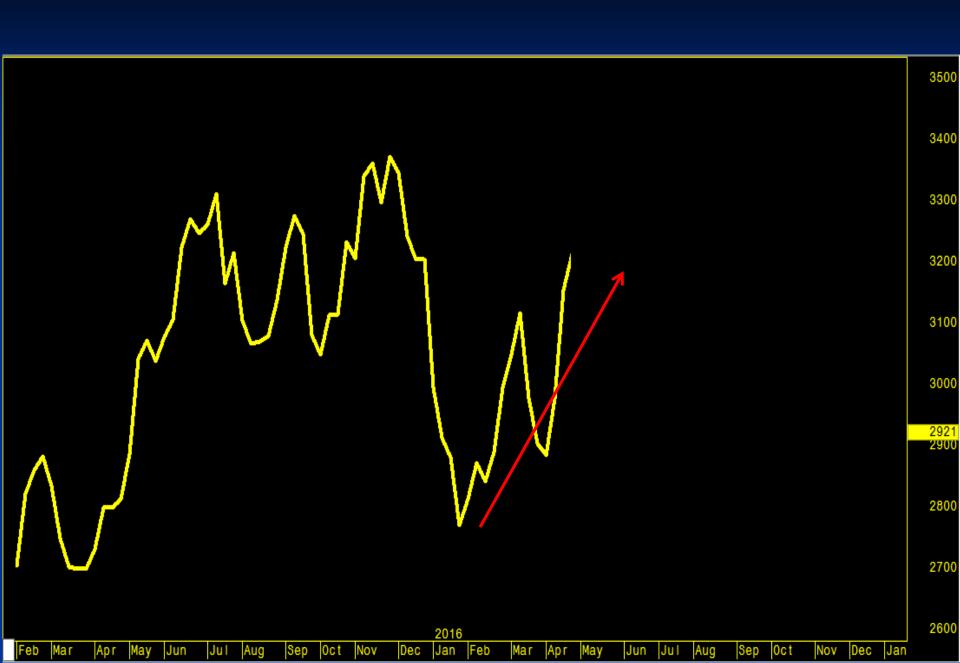
→ 3.000

Option Generates + 800

■ Final Effective Selling Price 2.900

"Variable Purchases"

"Covered Purchases"



Variable Purchases Concept

Bullish Market

Processor does not buy in hopes of lower prices

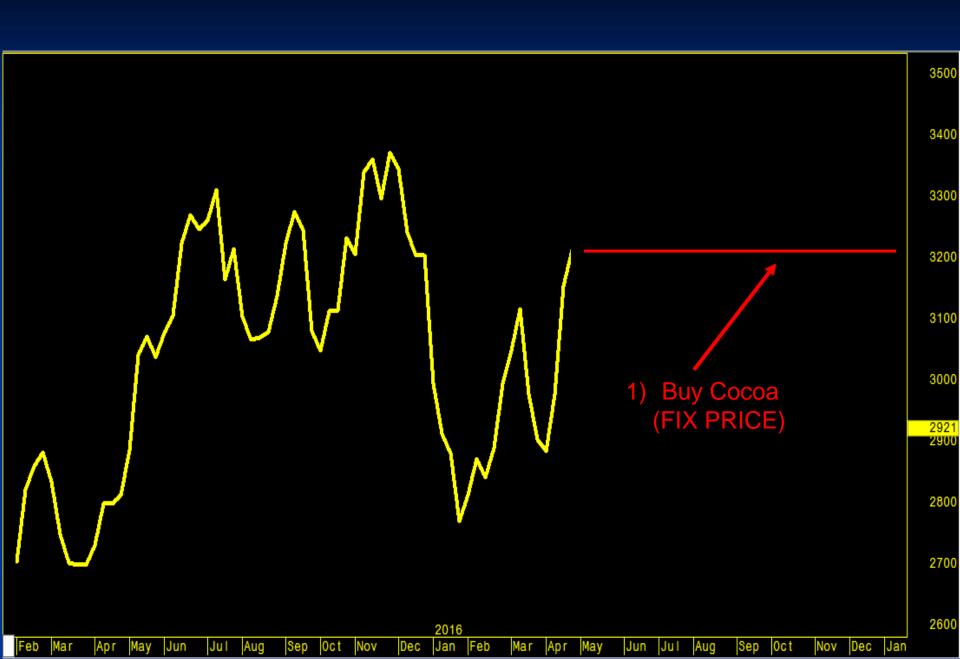
 Customer looking for a strategy that can provide a lock on prices in case of a market rally

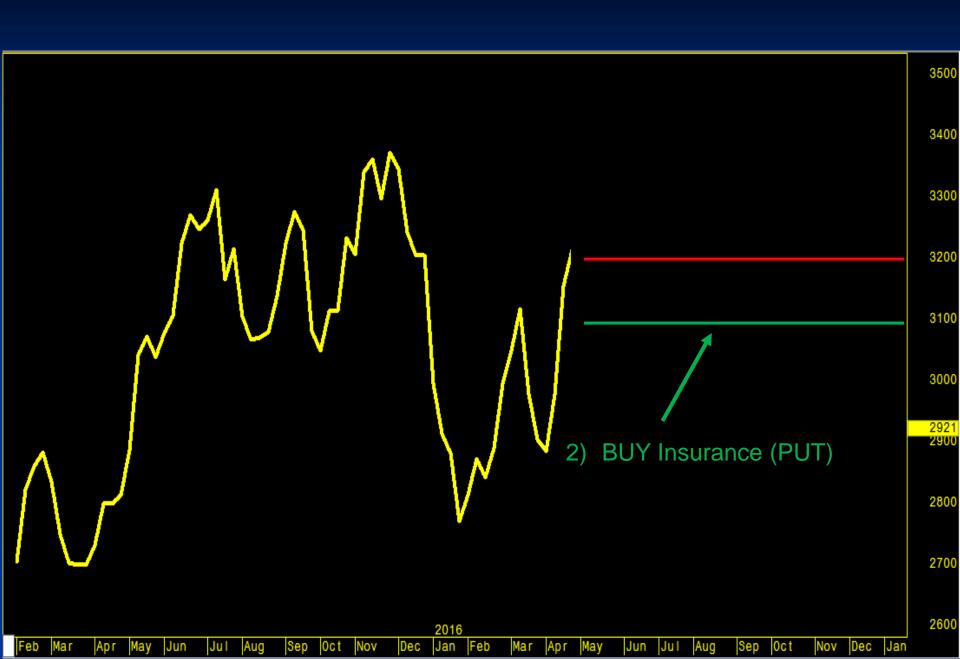
but with downside potential in case of a drop in market prices

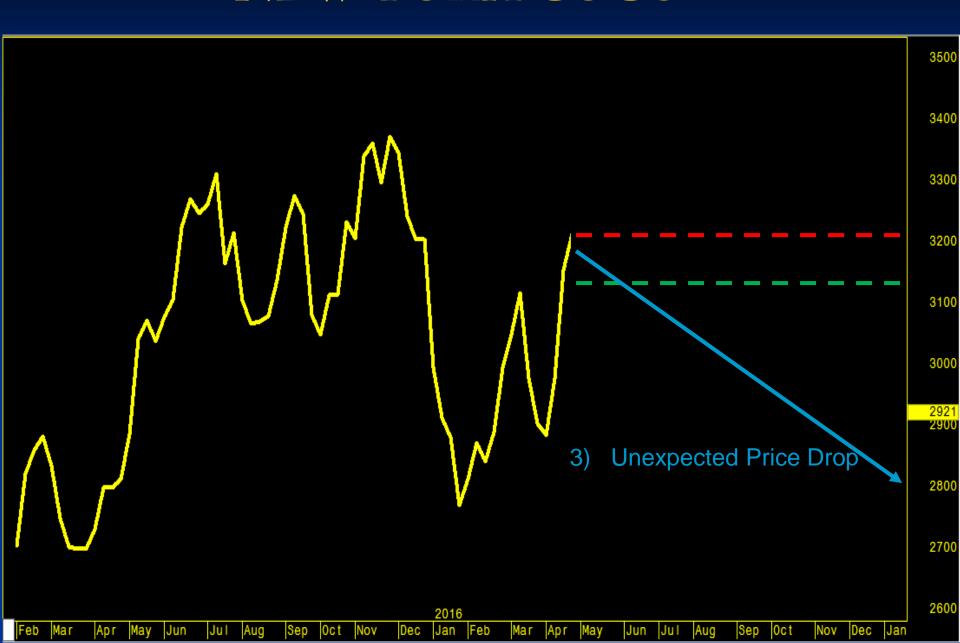
STRATEGY

■ FIX COCOA PRICES (BUY)

Buy Price Drop Insurance (PUTS) in case of a
 drop in prices in order to reduce cost of inventory







FUTURES ACCOUNT

Fix Cocoa

\$3,200

- Option Price
- 60 (75 DAYS PROTECTION @ \$3,100)
- Variable Price
- \$3,260

Price Drops to \$2,800

- Option Generates \$300

■ Final Price

\$2,960 (11%)

Price Risk Management

EMPOWERMENT

Sustainability

(We need PRM)

- Having a Price
- Managing the Price

"Knowledge is Power and Power is Knowledge"
Francis Bacon 1597



STRUCTURED PRODUCTS

Structured Products

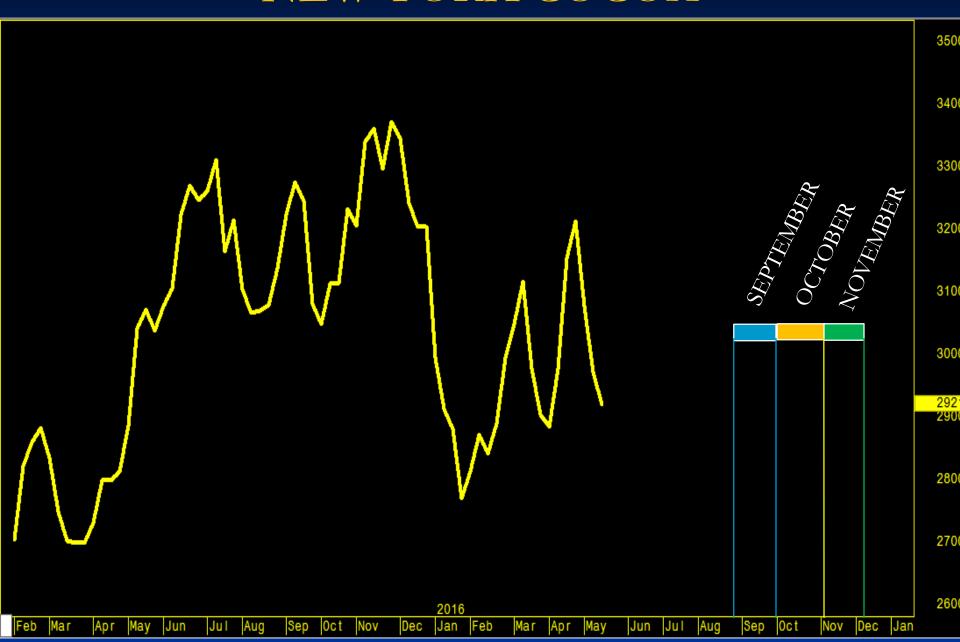
- Custom tailored Buying and Selling programs
- * Assist in the Short, Medium and Long term price management
- Helps reduce the uncertainty over market prices and «Guessing»
- * Assist in budget planning and control
- Can provide an additional marketing tool
- Provides more attractive pricing

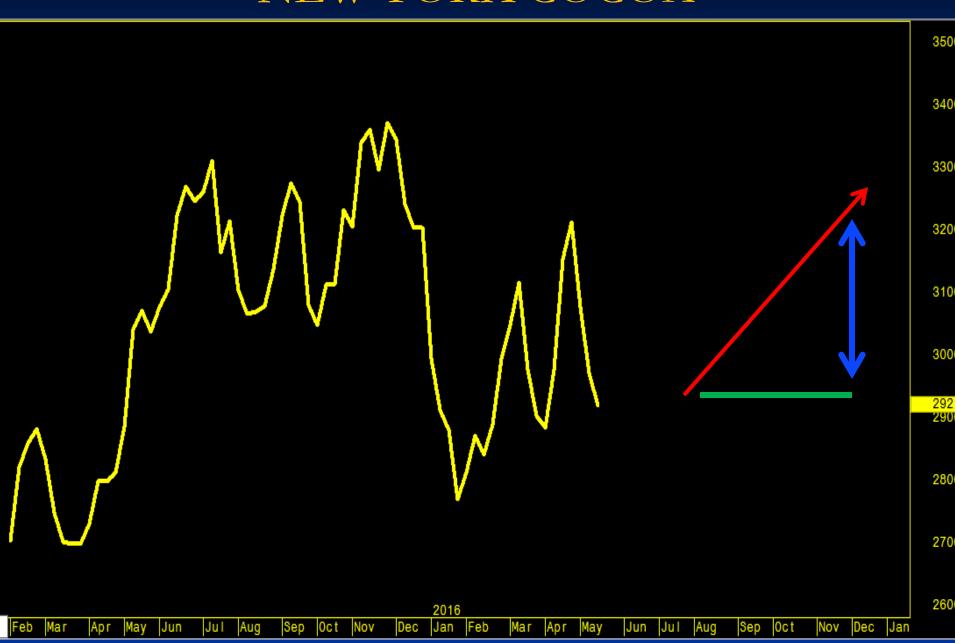
AVERAGES

"ASIAN SWAPS"

Cocoa Processor/Producer needs to secure pricing for the entire pricing period of September, October and November New York with today's pricing.

"We need an average of the entire month"



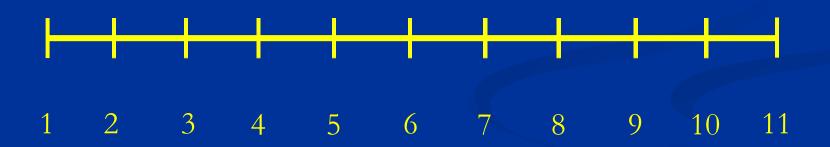


STRUCTURED PRODUCTS

"PROGRAMMED SALES"

TIME HORIZON

WEEKLY SALES ACCUMULATIONS



Ladder Program Sales

NEW YORK Cocoa @ 2.940

START: May 27th, 2016

■ ENDS: August 5th, 2016

Period: 11 Weeks

• First Level:

Second Level:

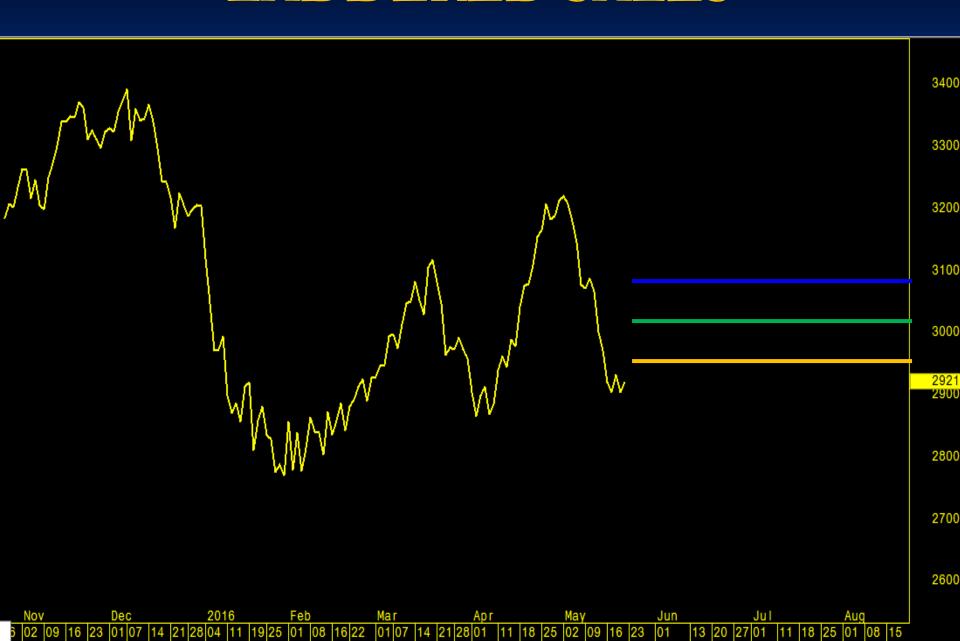
Third Level:

\$3.000

\$2.940

\$3.060

LADDERED SALES



Programmed Sales With Min Floor and Max Ceilings

London Cocoa @ 2.120

■ START: May 25th, 2016

■ END: Nov 30th, 2016

■ PERIOD: 28 Weeks

• MIN PRICE: 2.120

• MAX PRICE: 2.240 **X2**

WEEKLY STRIPS "Conditional Stops"

Minimum Weekly Price "Weekly Insurance"

September London Cocoa: 2.140

15 Weeks

■ Minimum Floor Price 2.100

■ Cost 30 M/T

September London Cocoa Weekly Strips



HEDGING FRACTIONS

FRACTIONAL HEDGING

<u>BUYS</u>	SALES 1
6 Tons	4 Tons
3 Tons	2 Tons
14 Tons	25 Tons

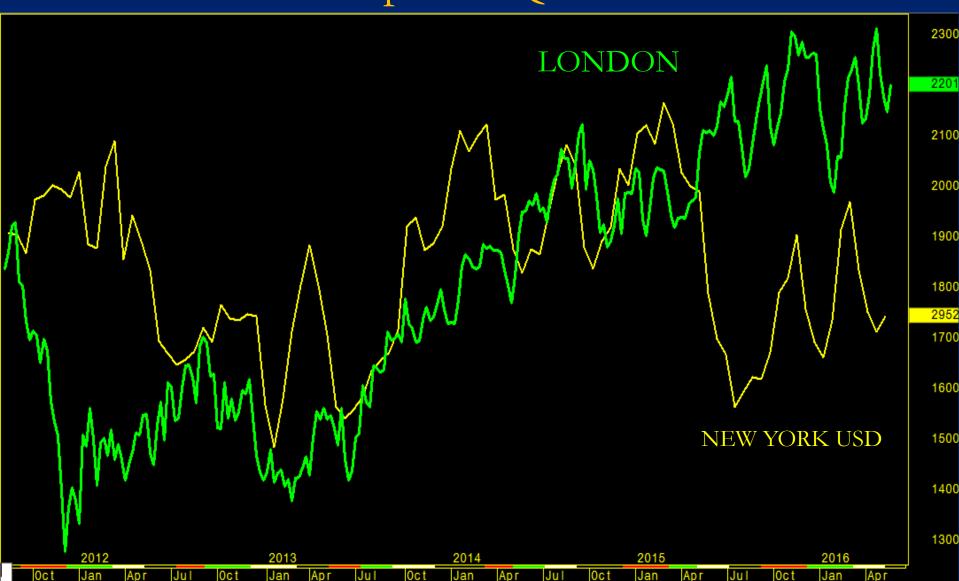
Standardized Contract = 10 M/T

CURRENCIES



Highest Volatility of the past 30 years

COCOA IN LOCAL CURRENCIES "Compos & Quantos"



Euro



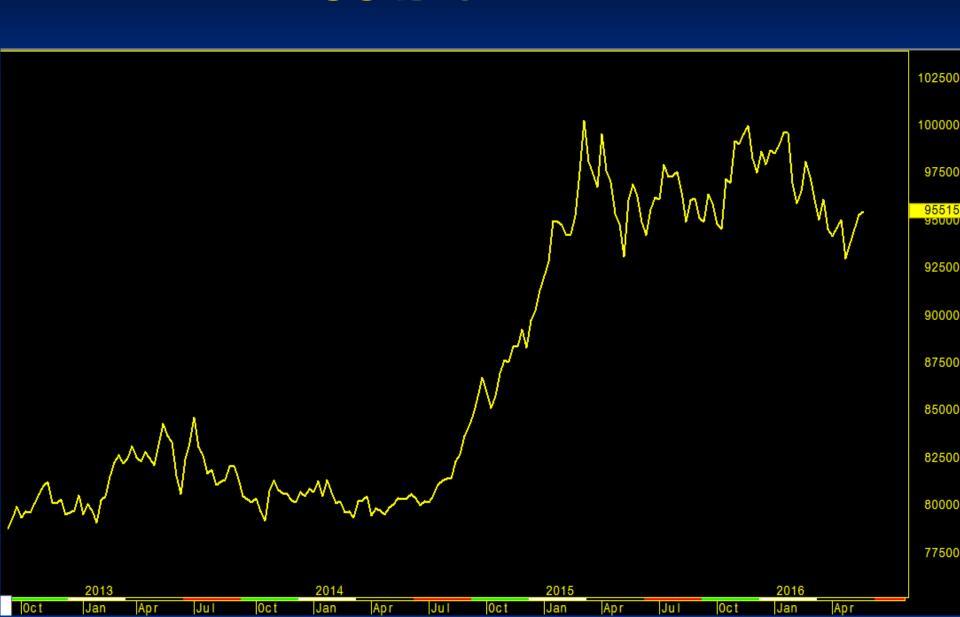
British Pound



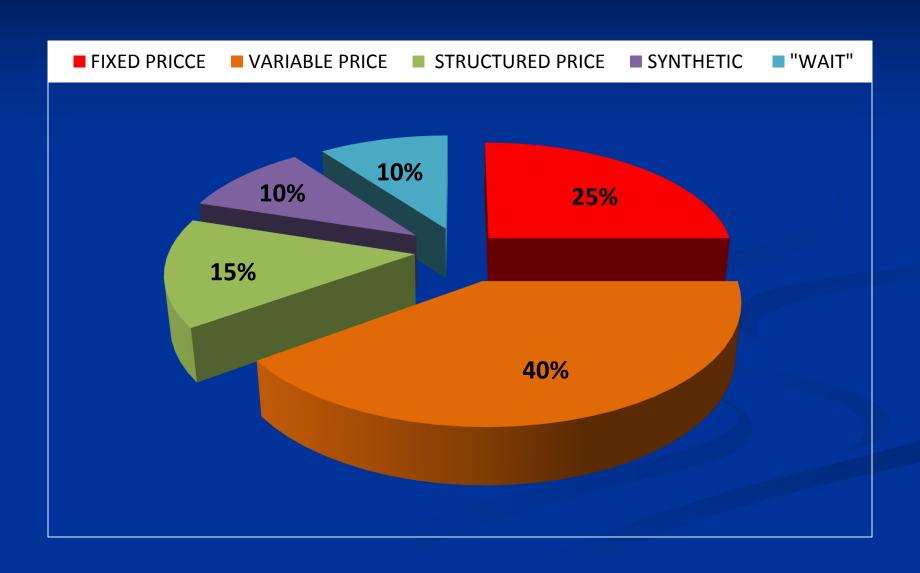
Brazilian Real



US DOLLAR



HEDGE BLEND WHEEL







ALBERT SCALLA

Sr. Vice President

INTL FCStone Financial Inc. – FCM Division

Albert.Scalla@IFCS.com

+1-305-925-4847

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