Fertilizer Outlook and Technology Conference

Savannah, GA 11/17/10

SULFUR OUTLOOK

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<u>CON-SUL, INC.</u>

- Consulting in all commercial aspects of Sulfur
- Founded 1987 when Agrico sold to Freeport
- Entered fertilizers 1971; Sulfur -- 1981
- Do not maintain detailed global project data base
- Provide interpretative approach based on experience
- North American Quarterly Sulfur Review integrates commercial, agricultural and sulfur perspectives
- Member, The Sulphur Institute

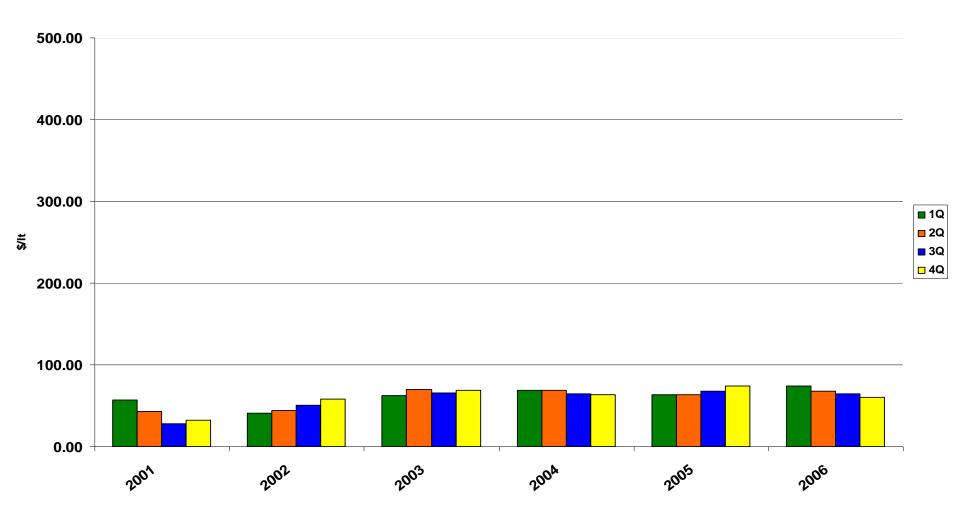


<u>OUTLINE</u>

- Why so volatile supply, demand & price?
- Global Balance Estimates 2008-2015
- US Supply/Demand Fluctuations 2008-2010
- 2011 US 1H Outlook/2H Guesstimate
- 2012 Outlook Commentary

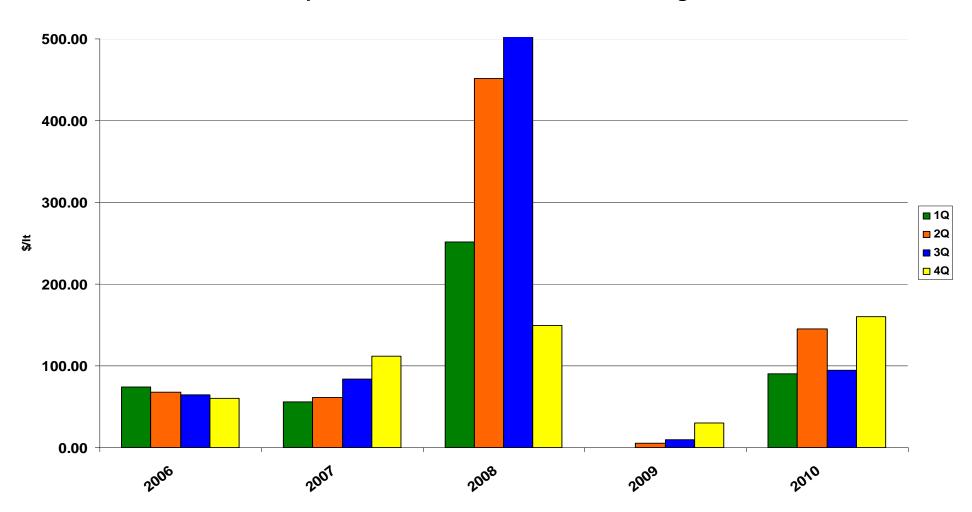
HISTORIC PRICING

Tampa/Central Florida Contract Price Average



RECENT PRICING

Tampa/Central Florida Contract Price Average



SOLID SULFUR: Going ... Going... or Coming ----?



FORMED (SOLID) SULFUR EXPORTS/IMPORTS

GULF COAST	<u>2008</u>	<u>2009</u>	<u>2010e</u>
EXPORTS	360MT	1,478MT	600MT
IMPORTS	100MT	0	400MT

<u>OUTLINE</u>

- Why so volatile supply, demand & price?
- Global Balance Estimates 2008-2015
- US Supply/Demand Fluctuations 2008-2010
- 2011 US 1H Outlook/2H Guesstimate
- Conclusions

VOLATILITY LIMITED ACCESSIBLE STORAGE

GONE: Alberta "Foothills Blocks"
Saudi Arabian Blocks
Galveston Block (1MMT)
Kazakh and Russian Blocks Declining

S & D NO LONGER SOLVED BY HUGE, EASILY ACCESSIBLE, CANADIAN INVENTORY

In early 1980s North America had close to 25 million tons of sulfur in easily accessible Blocks.

12million remain, 9 million not accessible

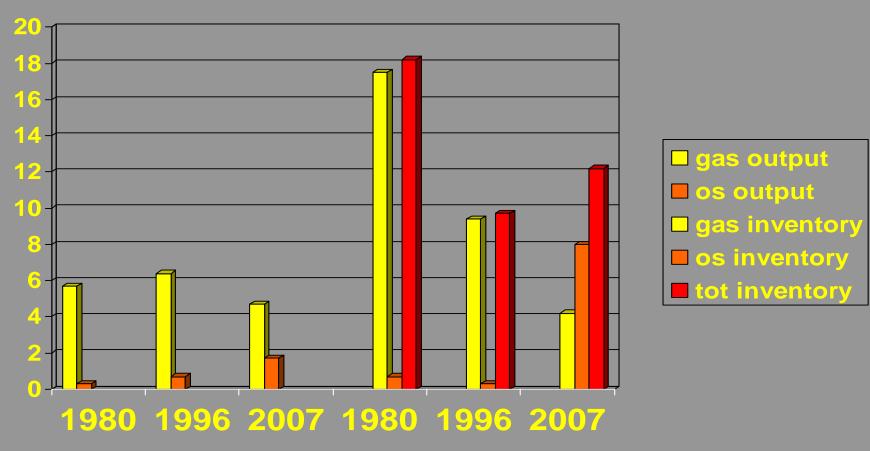
9MMT -- A LACK OF LOGISTICS

Photo Toronto Globe and Mail and Edward Burtynsky

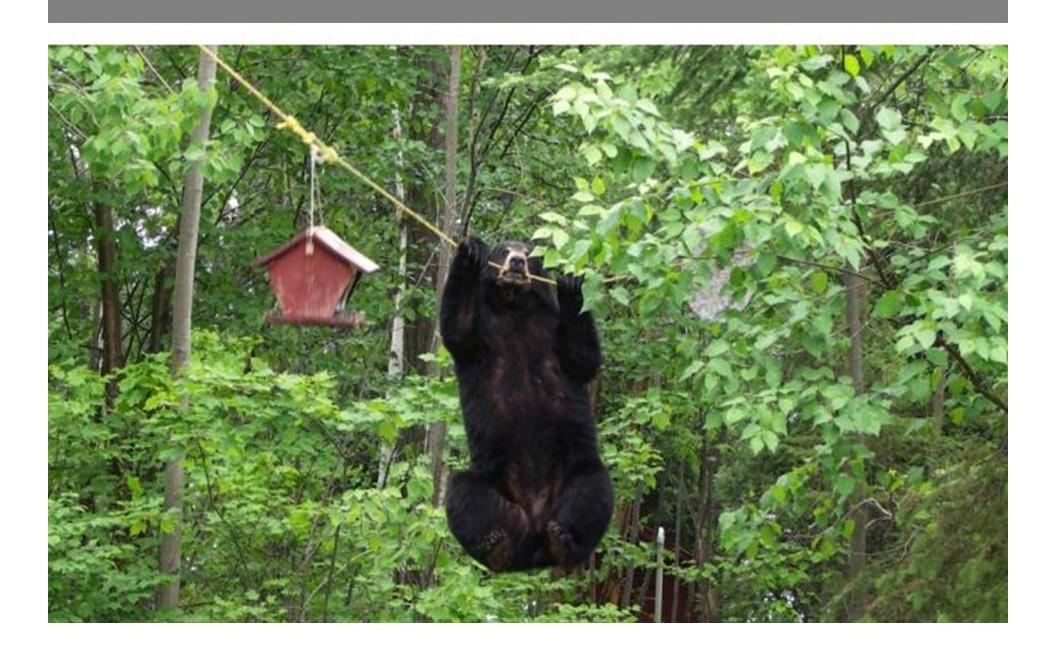


GAS/OIL SAND – SULFUR OUTPUT/INVENTORY

MILLION METRIC TONS



POOR INFRASTRUCTURE



VOLATILITY (cont.) INSUFFICIENT INFRASTRUCTURE

 Russia/Kazakh volume to Black Sea down 10-20% in Winter

- Oil Sand output can not be formed on-site.
 Very little sold at Vancouver
- Additional rail shipments limited by truck/bridge/rail infrastructure, demand stability

VOLATILITY (cont.) SURGES IN CANADA-US TRANSPORT

- 30 day round trip from Central Canada to US users,
 2.4 million tons/year shipments (200,000 tons per month), means 100,000T are always "in-transit"
- When users shut down suddenly, 100,000+T is not unloaded on arrival. Rail yards fill up.
- Refineries must still get rid of sulfur or curtail
- Prices collapse, exports surge and sulfur to landfills

VOLATILITY (cont.) ERRATIC DEMAND

- US phosphate fertilizer producers gave no warning of in January 2001 and 2008-9 shutdowns
- Chinese buyers repeatedly shift purchases from Vancouver, Arab Gulf and US Gulf to lower price
- The change in this October's USDA Outlook roiled the fertilizer industry. Their frequent corrections harm agribusiness
- You may recall the surge in DAP and Sulfur following China's unexpected October '09 purchase of DAP 15

VOLATILITY (cont.) A CRITICAL RAW MATERIAL

- For phosphate fertilizers -- FOOD
- For ammonium sulfate -- FOOD
- For sulfur fertilizers FOOD
- For innumerable chemicals -- hi value products
- For rubber making essential industry
- For refinery operations essential industry
- For metals leaching capital intensive industry

WHEN SULPHUR IS NEEDED USERS PAY ALMOST ANY PRICE

GLOBAL OUTLOOK

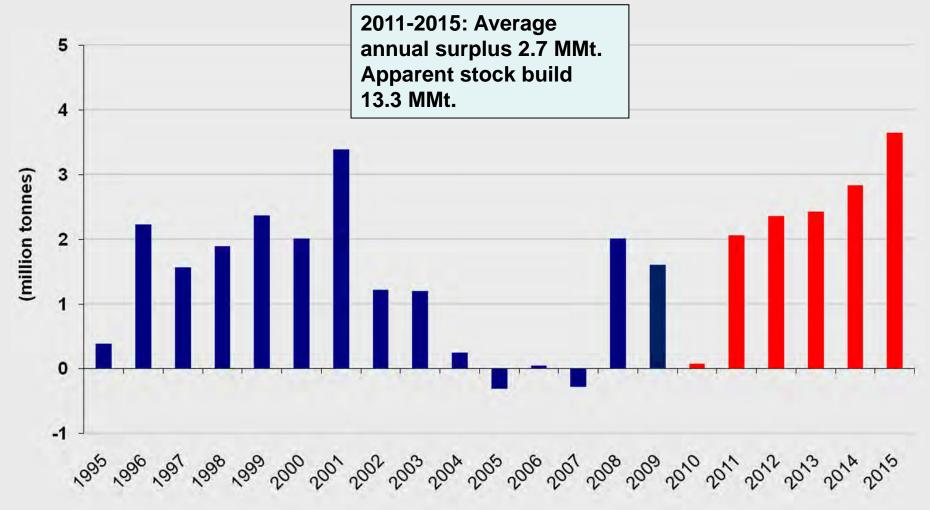
NO ONE REALLY KNOWS

Mid-East and Caspian continue slipping

US Refineries and gas lower

 Canadian sour gas down Oil Sands reconfiguration

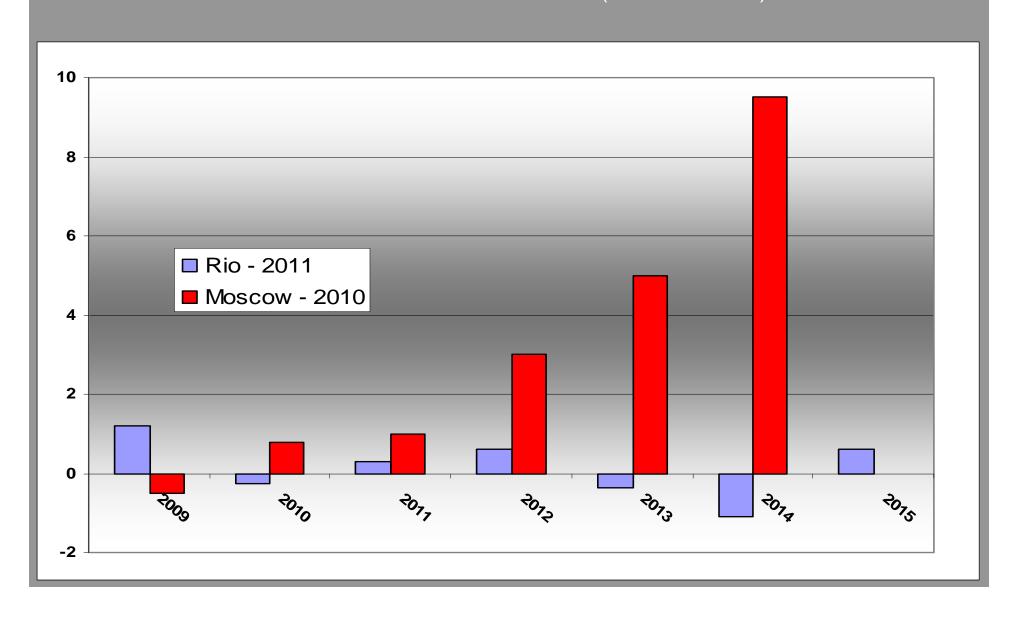
The Sulphur Market Balance, 1995-2015



WORLD SULPHUR BALANCE

IFA PIT Meetings

Source: Fertecon Research Centre (Million Tonnes)



U.S. SULFUR -- Conflicts

 THE US MARKET IS NEVER LONG, but CAN OVERFLOW, or be REALLY SHORT

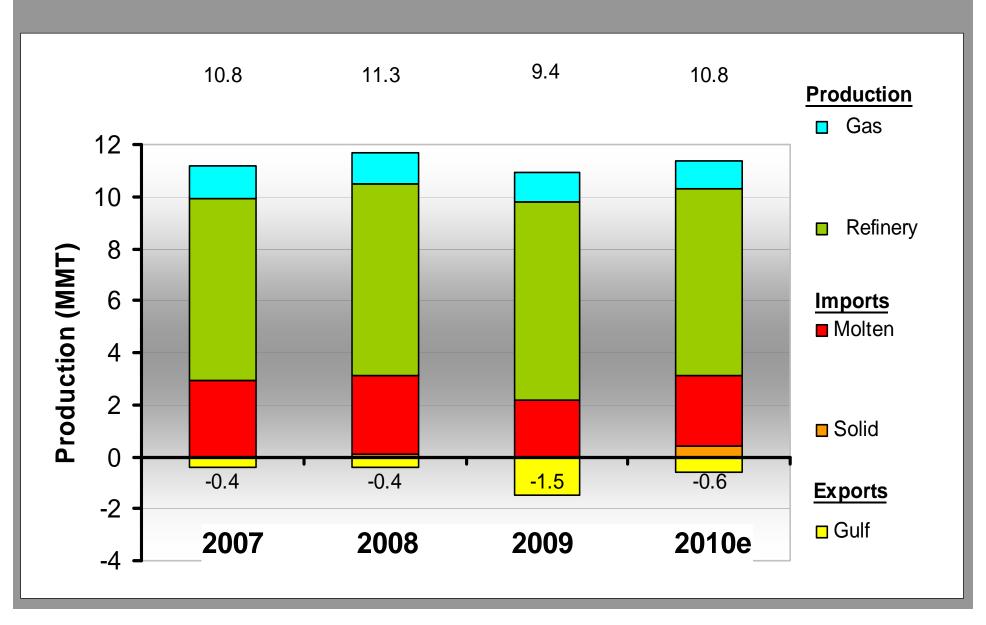
Supply

- Sour feedstocks, Refinery and Coker runs
- Expansions, Logistics, Imports, Inventory
- Demand
 - Exports, Fertilizer, Economy, Inventory



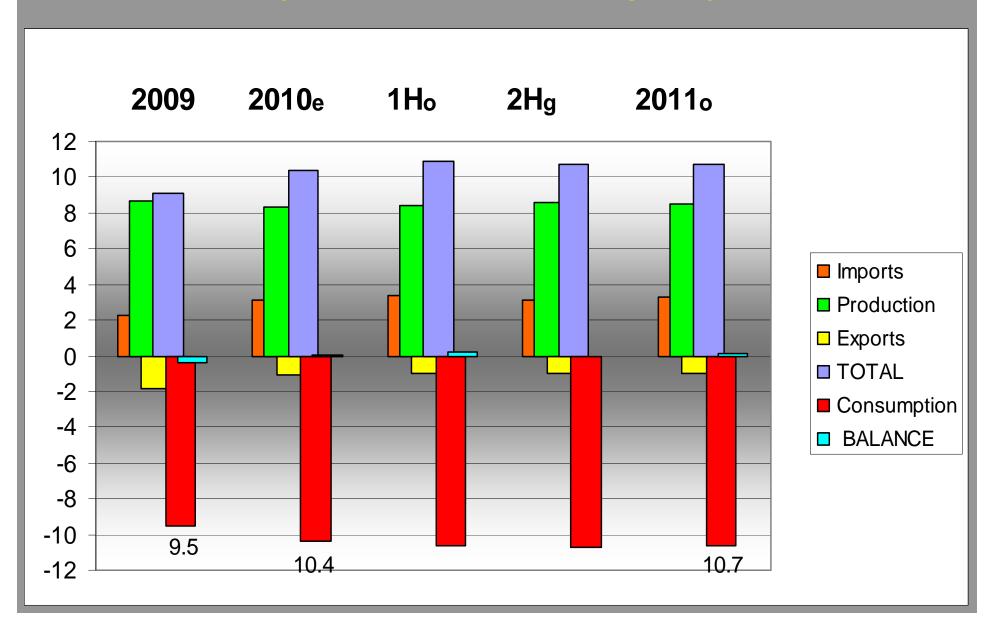
US SULFUR SUPPLY

(without West Coast exports)



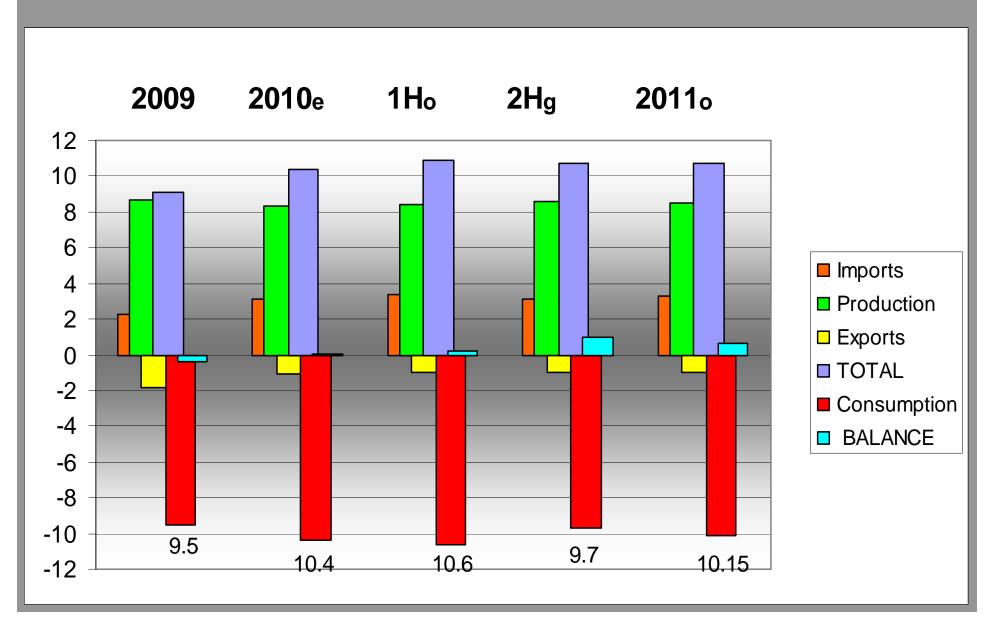
US SULFUR OUTLOOK -- 2011

(without West Coast exports)



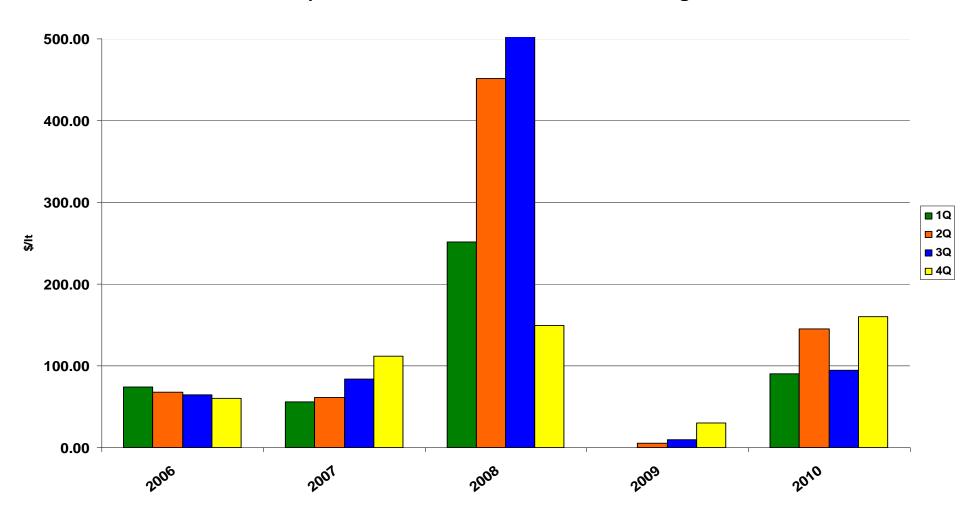
US SULPHUR OUTLOOK -- 2011 B

(without West Coast exports)



<u>PRICING</u>

Tampa/Central Florida Contract Price Average



OIL SANDS CRITICAL SOURCE of ENERGY and SULFUR

2009 Alberta 1,650,000T***

US <u>1,270,000T</u> 2,920,000

2015-18* Alberta 2,450,000T

US 3,000,000T 5,450,000

2020-25** Alberta 3,220,000T

US <u>4,000,000T</u> 7,220,000

^{*} CSI estimate. Requires new project construction

^{**} Unlikely in 2020; *** NB: 2009 gas derived output in Alberta was 3.9MMT



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THANK YOU

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