

Key characteristics of cotton by-products market

Cotton oil contributes only 3.3% to the global consumption of the 17 key fats and oils.

About 3% of cotton oil is internationally traded. For all practical purposes, there is no world market of cotton oil. Similarly, most cotton meal is domestically consumed.

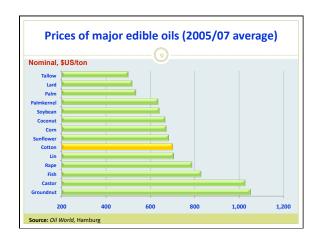
Most cotton oil is used for human consumption (some goes for soap making and other industrial uses).

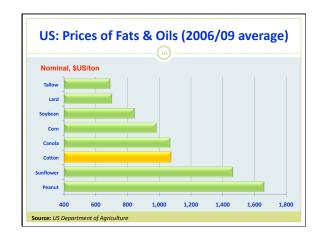
Cotton oil competes with the other (often imported) edible oils, mostly palm oil. Cotton meal competes with animal feeds.

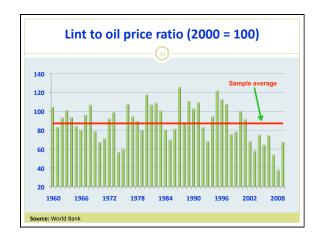
There are some health considerations (see next slide).

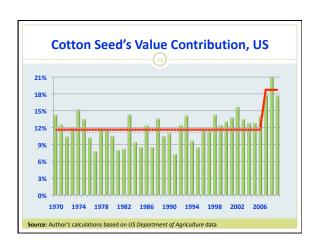
Health considerations
★ BIOTECH COTTON: There have been concerns in SSA regarding difficulties of accessing EU markets for cotton oil coming from biotech cotton varieties. If such oil reaches EU markets, then it will have to be subjected to the same rules as other commodities such as maize and soybeans. This concern, however, is of theoretical nature given that cotton oil is not traded internationally.
 \(\begin{align*} \) GOSSYPOL: Seed used directly for animal feed (i.e., dairy cows) may pose health problem if given in excess. In the US, where half of seeds are used for animal feed, the quantities are being monitored very carefully for the presence of gossypol (a toxic phenolic pigment). \(\begin{align*} \) REFINING: Poorly refined cotton oil may be a threat to human health if oil is consumed in large quantities.

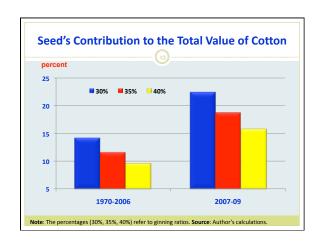
Global balance of key edible oils, 2005/07 average					
	Production (000 tons)	Exports (000 tons)	Traded share (%)	Share of global production (%)	
Palm	38,657	30,232	72.2	25.3	
Soybean	36,371	10,727	29.5	23.8	
Rapeseed	18,676	2,085	11.2	12.2	
Sunflower	10,764	4,151	38.6	7.0	
Cotton	5,003	154	3.1	3.3	
Palmkernel	4,516	2,523	55.9	3.0	
Groundnut	4,360	190	4.4	2.9	
Coconut	3,141	2,030	64.7	2.1	
Corn	2,311	795	34.4	1.5	
TOTAL	152,821	57,928	37.9	100.0	

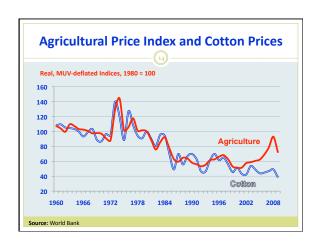




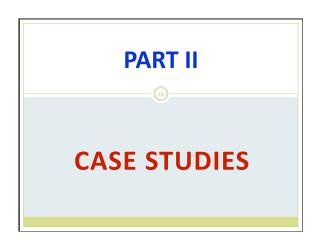


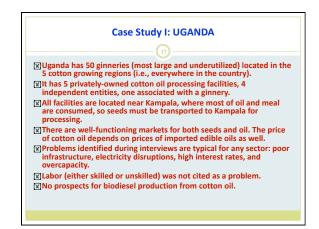


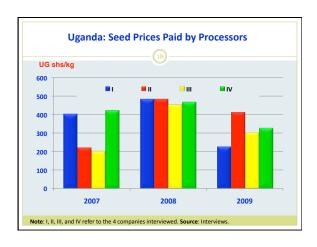


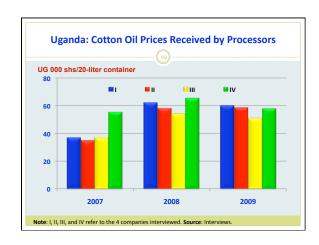


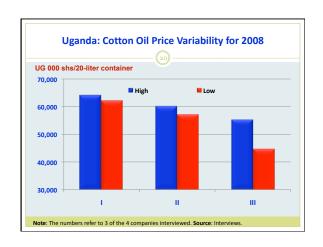
Why cotton prices did not boom? Signification of cotton production that took place in China and India, as a direct consequence of these countries' adoption of biotech cotton. During the 5-year period 2002-07, China increased its cotton output by 64 percent (from 4.9 to 8.1 million tons) while India increased its cotton output by 132 percent (from 2.3 to 5.4 million tons). Today, China and India account for more than half of global cotton production, mostly from biotech varieties. Substitutability: The boom in food prices was partly aided by growth in demand for biofuel production. The direct impact of biofuel demand is felt only by maize, sugarcane, and some edible oils, but the indirect impact is felt by almost all food crops, because of the strong substitutability both on the input side (mainly shifting of land from one crop to another) and on the output side (especially in edible oils, some of which are highly substitutable). In cotton, however, the indirect impact is every limited: cotton is not a substitute for any other commodity on the output side, and its input substitutability is limited. Subsidies: Cotton receives more subsidies than other commodities, encouraging more production than would have taken place without the support.

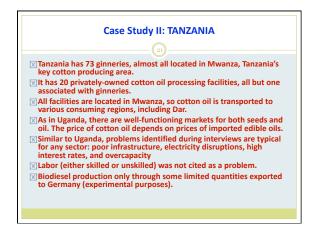


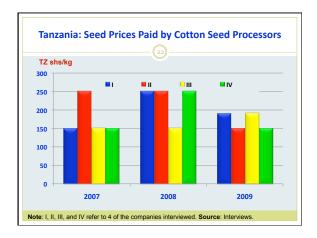


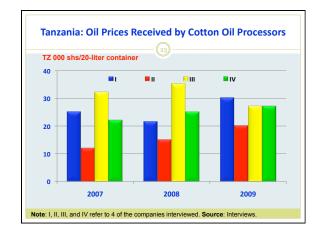


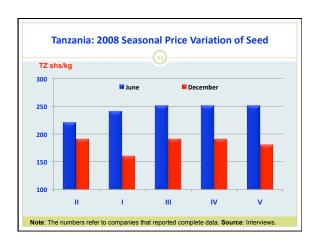


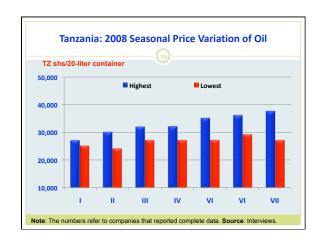


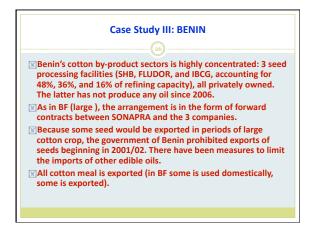


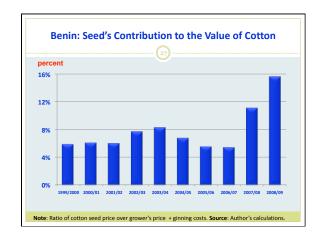


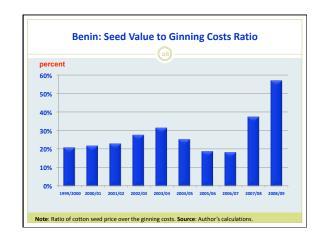


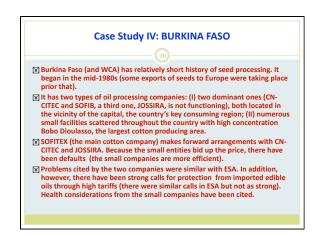




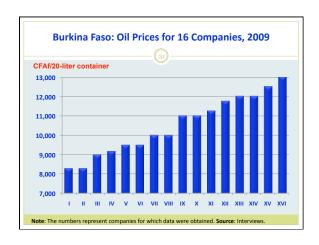


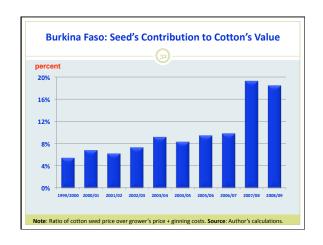




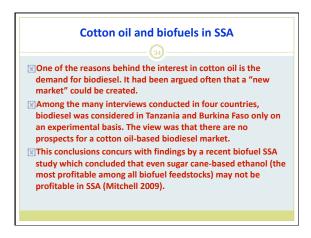












Summary and tentative conclusions (35) (36) (37) (38) (38) (39) (39) (30) (

Policy recommendations TRADE POLICIES (I): Because cotton oil is competing with other edible oils, there have been numerous calls for imposing import restrictions to competing oils. Policy makes should resist such calls (in addition to cotton producers consumers matter!) TRADE POLICIES (II): Often imported oils are treated differently (crude oils are import duty-free while refined oils are subjected to high tariffs), thus creating corruption (all oil is "imported in crude form"). REFORMS: Whenever reform efforts are undertaken, they should also consider both cotton and cotton by-products. RESEARCH: Research efforts should concentrate on developing cotton varieties with high oil content. Currently, the world average is 15%. Anecdotal evidence indicates that researchers in Brazil may be able to increase such content to 25% without jeopardizing other characteristics.

Acknowledgements



This presentation summarizes key findings of the paper entitled "Markets for Cotton By-Products: Global Trends and Implications for African Cotton Producers" to be published soon by the World Bank. The results of the county studies are based on findings from field visits by Kathryn Vasilaky and Laoura Maratou (Uganda, May 2009), Kathryn Vasilaky (Taraznia, June 2009), and Noureni Zanfongnon (Benin, June 2009 and Burkina Faso, July 2009).

The paper is a follow up study to an earlier World Bank multi-country cotton study entitled Organization and Performance of Cotton Sectors in Africa: Learning from Experience, edited by David Tschirley, Colin Poulton, and Patrick Labaste. The report can be downloaded from http://www.coton-acp.org/docs/study/Organization and Performance of Cotton Sectors in SSA 9780821377703.pdf Most of the country studies have been posted at

The project was funded by the World Bank and the following trust funds: Belgian Poverty Reduction Program, Bank-Netherland Partnership/Commodity Risk Management Group, the Swiss Secretariat for Economic Affairs, and the EU's All ACP program.