

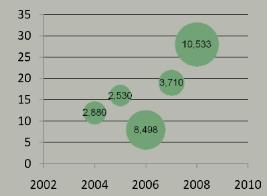
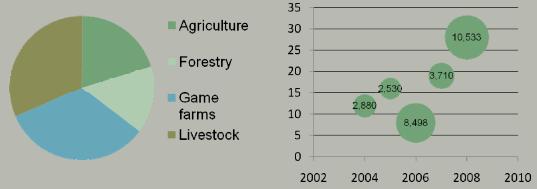
Drivers of Investment in Large-Scale Farming: Evidence and Implications

Derek Byerlee
World Bank

Large-Scale Land Acquisitions, 2004-08 One African Country

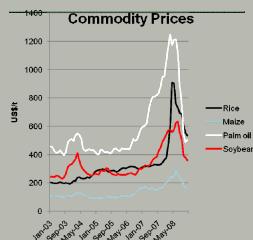
DISTRIBUTION OF APPLICATIONS NUMBER FOR AGRICULTURE (AND AVERAGE HECTARES)

Total of 2.5 M Ha

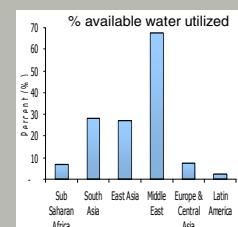
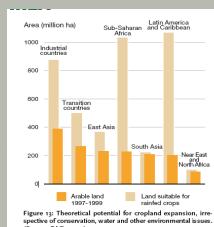


What are Major Drivers: Demand Side

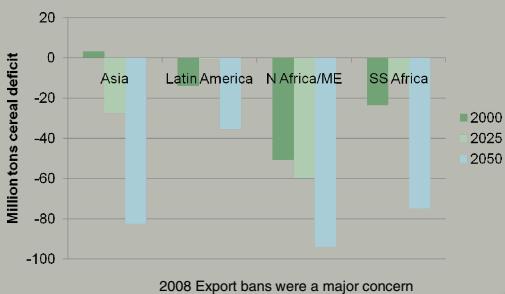
- Food security
FDI by food importing countries with Yuans & Dinars to invest
- The scramble for biofuels
Domestic and exports
- Domestic investors
- Expectations of payments for avoided deforestation?
- Speculation?



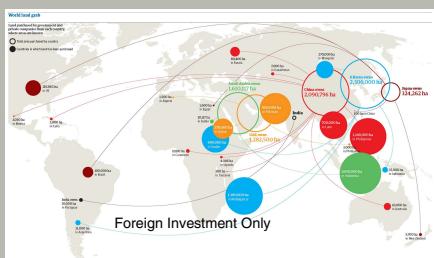
Potential land and water available for expansion of farming



Projected Cereal Imports IFPRI Baseline

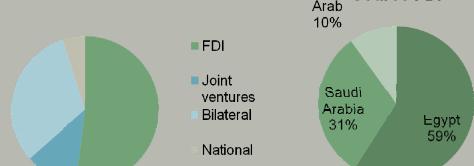


GRAIN's Land Grab Map



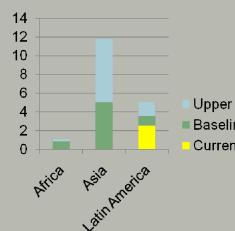
Land Allocation, Sudan

1 million ha, 1998-2002

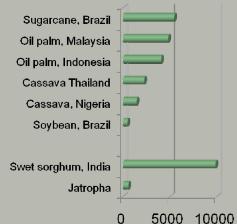


Projections of Biofuels in the Tropics

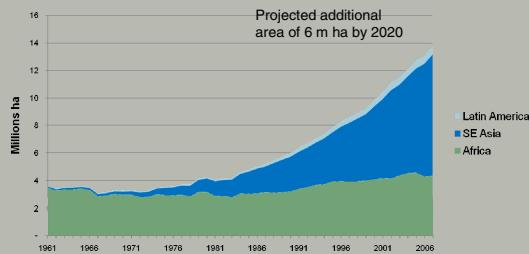
Land for biofuels, 2030 (M ha)



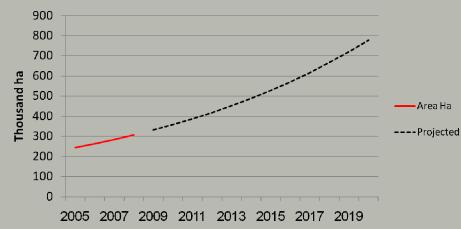
Biofuel yield (litres/ha)



Biofuels will Drive Further Rapid Expansion of Oil Palm in SE Asia



Expansion for Oil Palm for Biodiesel, Colombia



But Why Large Scale?

- ④ Déjà vu--“plantation crops”—sugarcane, oil palm, jatropha?
 - Well established reasons to favor large scale (plus outgrowers)
- ④ New technologies and management tools
 - ICT, precision agriculture, remote control (Agadi Farms)
- ④ Global farming by Wall St
 - e.g., Altima -IFC venture
- ④ From ‘small is beautiful’ to ‘bigger is better’ thinking
 - Some academics, governments

So What if it is Large Scale?

A MAJOR OPPORTUNITY

- ④ Opening of land abundant and remote regions
- ④ Export development
- ④ New industries-- biofuels
- ④ Employment generation
- ④ Technology transfer

WITH SIGNIFICANT RISKS

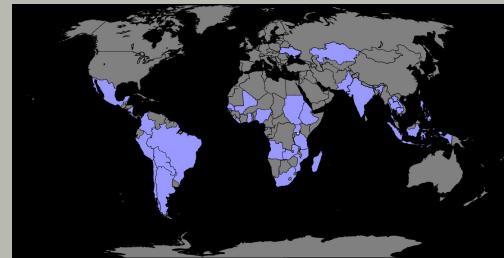
- ④ Lack of attention to existing land users
- ④ Undermining of governance
- ④ Short-term interests
- ④ Negative environmental externalities

WB-IIED-FAO Study to Address Four Key Questions

1. What is really happening on the ground?
 - Quantification and characterization of investment projects.
2. Is the policy, legal and institutional environment adequate?
 - Diagnosis of gaps and capacities
3. Are these sound investments?
 - Financial and economic analysis of projects
4. What about social and environmental impacts?
 - Analysis of positive and negative impacts

The Countries Selected (30)

(based on activity level, region, nature of land markets)



Two Phases

Phase I

- National (or state)
- Inventory of projects and policy review
- Being piloted in eight countries

Phase II

- Field based for a subsample of projects and countries
- Project specific financial, economic, social and environmental assessments

1. The Project Inventory

A country-specific database:

- Of investments and proposals involving land acquisition (> 500 - 5000 ha)
 - Ha, crops/enterprises, type of investor, outgrowers?
- Status of investment
 - Pipeline, approved, under implementation

Uses a variety of sources: investment promotion agency, ministries of land, NGOs and other key informants

Geo-referenced to facilitate economic, social and environmental impact analyses

2. The Policy Review

A diagnostic tool based on the land governance toolkit

- To identify adequacy of policies, legal frameworks and institutional capacities
- Based on 42 indicators to assess:
 - the processes through which land is made available
 - the processes through which investments are selected
 - the requirements to carry out and publicize social and environmental impact assessments
 - the institutional capacity to implement these policies

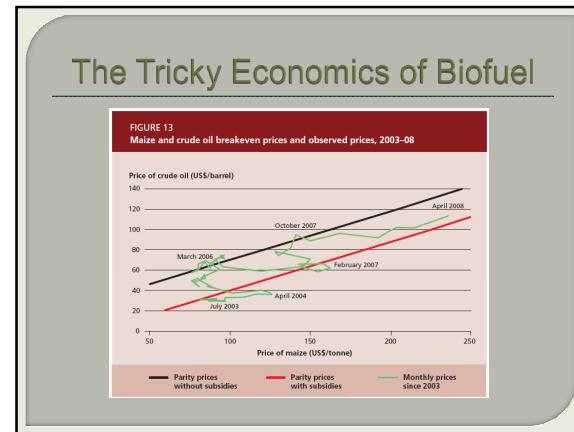
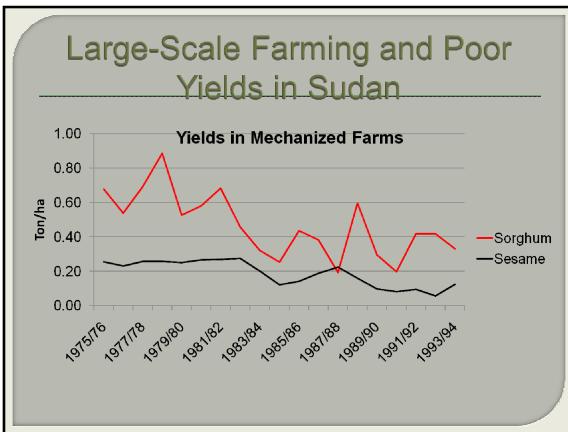
3. Financial and Economic Analysis

If a financial analysis is available

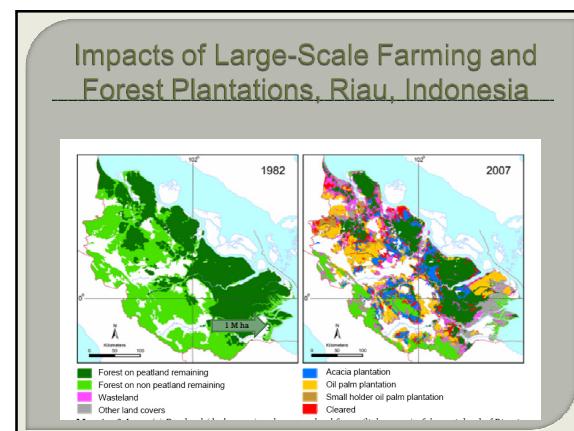
- "Tire check" the yield and other technical parameters
- Realism of price assumptions (2008?)

Economic analysis

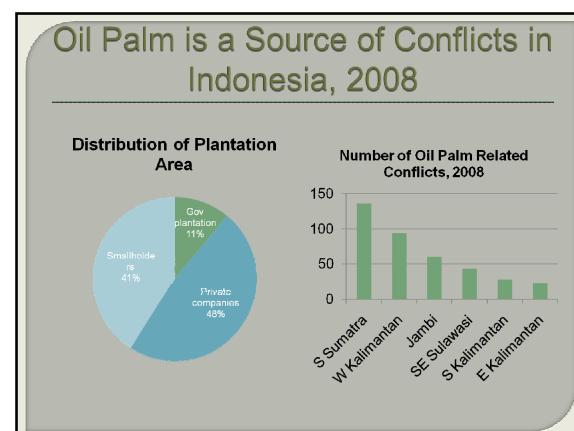
- Particular focus on opportunity cost of land in existing uses
 - Often use zero cost of land!
- Take account of large incentive/subsidies provided by government
 - Biofuel mandates, infrastructure,



- ### 3. Environmental Assessment
- ④ For a subset of investment proposals, the study will examine
 - Safeguards in place
 - What environmental considerations were taken into account
 - Features of the project design to mitigate environmental impacts
 - ④ Review of actual/potential indirect effects
 - Land expansion elsewhere due to prices, lack of regulations
 - ④ Use of geo-referenced data



- ### 4. Social Impacts
- ④ Analysis of the macro context
 - Existing social, political and historic situation
 - Key land and natural resource tenure issues related to disadvantaged groups
 - ④ Analysis of specific investments
 - Process of consultation
 - Social impact assessment process
 - Compensation mechanisms and arrangements with local communities
 - Benefit sharing



Worst Case Scenarios!

- ④ “Land tenure disputes have led to conflict, injury, intimidation, arrests, torture and even death”
 - CIFOR review, Indonesia, 2008
- ④ “Various studies indicate that in many cases the expansion of palm cultivation has been conducted with serious human rights violations, including forced displacement, massacres, threats, land confiscation and murders”
 - Social impact analysis, Colombia, 2008

The Product

- ④ Empirical
 - Some in-depth country studies
 - Global data, trends and drivers
 - Overall assessment of benefits and risks
- ④ Policy guidance
 - Good practice guidelines and examples
- ④ Timetable
 - Phase I—March/April
 - Phase II—May-Aug
 - Synthesis—Sept-Dec

Conclusions and Implications

- ④ New wave of large scale land acquisitions with new drivers and actors
- ④ Major new opportunity but significant risks for land governance
 - The ‘natural resources curse’?
- ④ Additional research is needed
 - Better evidence of what is happening on the ground
 - Holistic view of costs and benefits
 - Understanding of the renewed interest in large-scale farming
- ④ Priority to build land governance capacity to manage the risks
 - Adequate policies and regulations
 - Capacity to process, implement and monitor