

Poverty, Governance, and Land Grabbing In West Africa

Introduction

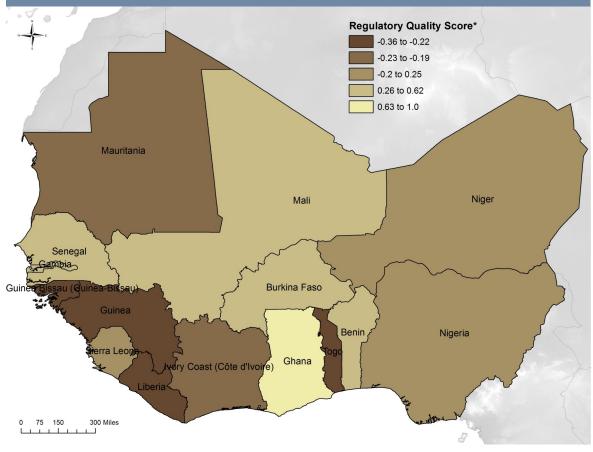
Global population growth, changing diets, and increasing demand for biofuels has increased the pressure placed on the global land and water resource base to produce sufficient food and fiber. As a result, many countries and corporations have begun investing in large swaths of arable land around the globe, as evidenced by the large increase in the number of transnational land deals, or "land grabs", brokered in the past decade. Recent studies have shown that land and water grabbing is occurring at an alarming rate in nearly every country in the world except Antarctica (Rulli et al., 2013). In addition, there is evidence that land grabs occur more frequently in countries with weak legal and political structures, and with high levels of poverty and disenfranchisement. Here, six sociopolitical determinants of vulnerability purchased worldwide, and the frequency of to land grabs are mapped for the fifteen counthese transfers spiked following the 2007-2008 than strategic investment. tries of West Africa. A final vulnerability anal- food price crisis (Rulli et al., 2013). This unysis, based on combined data from the six sep- precedented increase in land transfers has been Country arate determinants, is shown, and the implications of this result are discussed.

Area of Interest



Regulatory Quality

Background



As countries and corporations have realized

the value of land in the midst of increasing

global demand, the number of transnational

land deals has increased dramatically. Since

2005 over 47 million hectares of land were

dubbed "land grabbing" by the popular press,

and has since become a topic of great concern.

ments and corporations to meet their food and

some cases, be a violation of human rights, as

land is often acquired without prior consent of

pre-existing land users, and with no considera-

A recent World Bank report showed that these Niger

large land transactions vary greatly in their im- Nigeria

pact on local communities, and can be benefi- Senegal

rights are respected, and just compensation is **Togo**

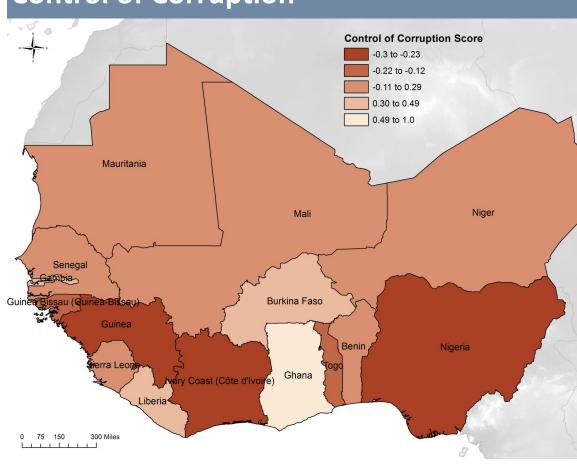
cial if decisions are democratically made, land Sierra Leone

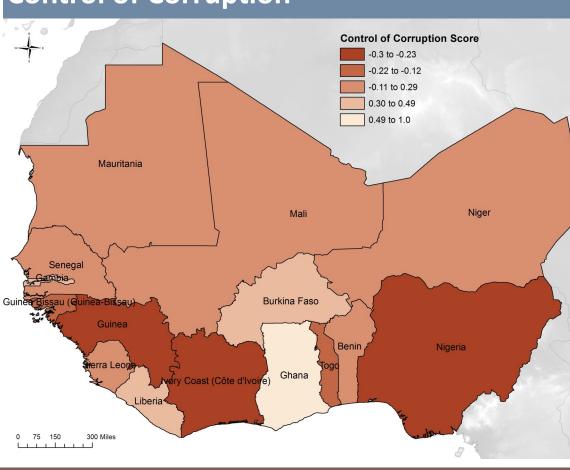
tion of the social and environmental impacts.

Often considered a way for foreign govern-

energy requirements, land grabbing can, in

Control of Corruption





provided. This is often not the case.

Although the utilization of the acquired land

of it is being used to grow crops for biofuel

fallow, and are considered to be little more

HA trans-

ferred

268,300

210,461

106,415

47,000

649,800

473,334

52,000

15,922

362,292

375,570

705,450

n/a

varies, recent data show that a large percentage

production, such as oil palm. Others parcels lie

Major Investor

Italy

n/a

United Kingdom

United Kingdom

n/a

Singapore

Singapore, Malaysia

Libya, Saudi Arabia

Saudi Arabia

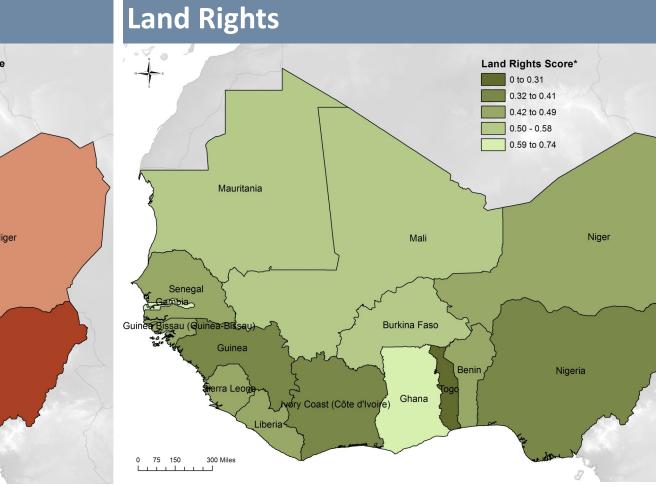
Saudi Arabia

United Kingdom

India, China

Vietnam, Portugal

n/a



Methodology

After conducting a literature review to determine which indicators might be used to predict a country's vulnerability to land grabs within their borders, a list of six relevant sociopolitical indicators were decided upon, and relevant data was collected from various sources. Data for each of the fifteen West African countries was then consolidated into tabular form and entered into ArcMap.

This data was then used to create a choropleth map for each of the six indicators, in which the Lastly, land acquisition information from an color of each country is indicative of its value for the indicator being mapped. For each map, dark colors indicate high vulnerability, while lighter colors indicate lower vulnerability. Finally, the value for each of the six indicators were combined in the following way:

Reg Qual + Cont Corr + Land Rts +

The output of this equation was then used to make a final map of the overall vulnerability o each country to land grabs. As with all other

NR Prot + Rule Law - Pov = Vulnerability

Land Grabs = 25,000 hectares **Vulnerability** Mauritania Coast (Côte d'Ivoire

Vulnerability to Land Grabs and Area of Land Actually Purchased

maps, dark colors indicate high vulnerability, and light colors indicate low vulnerability.

online database was used to create a dot density map showing the total number of hectares transferred in large scale land purchases in the past five years. When displayed together with the vulnerability map, this allows for the visualization of the relationship between vulnerability, as measured by the six sociopolitical and economic variables, and the actual prevalence of land grabbing.

References



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Jacobs, S. (2009). Gender and land reforms: Comparative perspectives. Geography Lastarria-Cornhiel, S. (1997). Impact of privatization on gender and property

rights in Africa. World Development, 25(8), 1317-1333 Owusu, G.A. (2008). Gender, land tenure dynamics and livelihood: A comparison of the Central and Volta Regions of Ghana using logistical regression analysis. Studies in Gender and Development in Africa. 1(2008), 34-57. Cotula, L., Vermeulen, S., Leonard, R. and Keeley, J. (2009). Land Grab or Devel-

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(World Bank, Washington, DC, 2008).

Basemap: ESRI World Shaded Relief; Country Outlines: www.geodan.nl

Regulatory Quality, Control of Corruption, and Rule of Law Scores: The World

Land Rights and Access Score: International Fund for Agricultural Development Natural Resource Protection: Columbia University, Natural Resource Management

Poverty Level: The World Bank Land Acquisitions: GRAIN

Photos: People - fotopedia.com; Beef - flickr.com; Biofuels - fotopedia.com

Cartographer: Elliot Hohn **Instructor:** Brandon Olsen

Date: May 1, 2013

Projected Coordinate System: Transverse Mercator (Mauritania 1999 UTM



Increasing pressure on agricultural land base and rising food prices due to:



Frowing Population

With a population expected to reach 9 billion by mid-century, global food production will have to increase by at least 70 percent in order to meet the growing demand (World Bank, 2008).

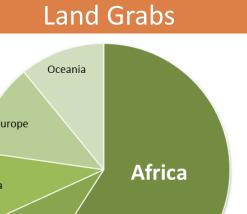


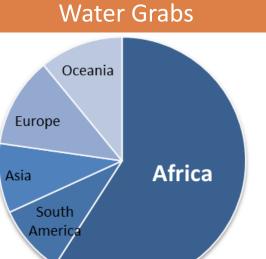
As the growing population becomes wealthier, the consumption of animal protein increases. In general, the production of animal protein requires more land per calorie than production of plant-based protein.



Increasing Demand for Biofuels

The increase in global demand for biofuels has led to large-scale conversion of land to production of biomass for biofuels. This demand is not expected to decrease anytime soon.





(Adapted from Rulli et al., 2013)

Discussion

Benin

Ghana

Burkina Faso

Guinea-Bissou

Ivory Coast

Mauritania

proximity to transportation infrastructure, among a host of others, must be considered. This project isolated one small subset of these high. factors, related to governance, in an attempt to Indeed, a number of recent studies have conassess whether or not there exists any noticea- cluded that countries must take political and ble relationship to a country's vulnerability to legal steps toward securing land rights for land grabs.

In reality, this relationship is extremely complex, and would require enormous amounts of data in order to show any meaningful, statistically significant correlations.

In addition, one cannot assume, ex ante, that

Numerous factors are involved in determining all large-scale land acquisitions lead to negawhether or not a country is attractive to large- tive outcomes. Like any other such situation, scale investment in land. Biophysical factors there are inevitable tradeoffs involved, resultsuch as soil quality and annual rainfall, as well ing in both winners and losers. In addition, be-Rulli, M.C., Saviori, A., D'Odorico, P. (2013). Global Land and Water Grabbing. as factors that affect access to markets, such as cause of the highly unbalanced power dynamic World Bank, World Development Report 2008: Agriculture for Development between smallholder farmers and large investors, the potential for exploitation is often very

> smallholder farmers, particularly females, in order to protect their lives and livelihoods (Cotula et al., 2009; Rulli et al., 2013). As agricultural land becomes more valuable, and therefore more attractive to investors, the need to do so will become even more important.

Rule of Law Rule of Law Score* -0.56 to -0.34 -0.33 to 0.17 0.55 to 1.0 0 75 150 300 Miles

Natural Resource Protection

7601 to 83.8



