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# FOREIGN LAND DEALS IN AFRICA: IMPLICATIONS FOR AGRICULTURAL TRADE

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## Abstract

This study investigates the implications of foreign land deals in Africa especially with regard to agricultural trade. It is motivated essentially by large scale foreign deals of land in Africa, Latin America, Central Asia and Southeast Asia that have been reported in recent years. One of the driving forces has been attributed to the presumed availability of land in these regions. This study employs data sourced from World Development Indicators and World Governance Indicators on key variables such as arable land per person, agricultural land as percentage of land area, net food import, regulatory quality, among others (1995-2010) on selected African countries where instances of foreign land deals have been reported. The study formulates empirical models that draw from institutional development theory, which is estimated using the Generalized Method of Moments (GMM). The study found LSFLDs to impact negatively on agricultural export in selected countries, the indexes of institutional framework used were found to be significant; likewise, agricultural land becomes highly significant with relative larger magnitude when interacted with institutional indexes. This therefore implies that as more agricultural land is acquired, agricultural export tends to dwindle and incidences of food insecurity are heightened. The preliminary investigation suggests the need for controlling the issue of massive foreign land deals through viable institutional framework, which can be engendered by building sound legal and procedural measures that will protect local rights and take into account the aspirations of local farmers and the welfare of citizenry.

*Keywords:* Agricultural exports, Food security; Institutional quality; Land deals.

*JEL Classification:* F21; R52; Q15; Q18

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## 1.0 Introduction

Africa and Latin America is said to have about 80% of world reserves of agricultural land with Angola, Democratic Republic of Congo (DRC) and Sudan among the seven countries in Africa and Latin America that account for about half of the world land reserves. This, among other factors, has made Africa the most targeted region, which has recorded more than half of the foreign land projects/deals in the world. From available data, there have been incidences of large scale acquisition of land across Africa countries. Over 2,492,684 hectares of land has been acquired in Ethiopia, Ghana, Madagascar, Mali and Sudan. This represents almost half of the arable land in United Kingdom and three times the arable land of Norway. In Sudan and Ethiopia alone, the figures on foreign land deals are about 3.9 million and 1.2 million hectares, respectively.

The implications of foreign land deals can be far-reaching; though some argue that there are opportunities of increasing capital inflows, government revenue, among others for the host countries. However, there are serious challenges that the foreign land deals may portend. For African countries especially those with difficulties in feeding their teeming population, leasing/selling agricultural lands to foreign investors who will use them to produce and export food to rich countries (in most cases their home countries to meet their own food requirements) will worsen the issue of food security. An example is the attempted South Korea Daewoo and Saudi Arabia farming investment in Madagascar and Sudan, respectively. The agricultural products produced by foreign farmers would be exported to their home countries leaving the recipient countries to lose in both ways: land resources and availability of food products in domestic economy. Another implication is the displacement of small scale farmers from their major means of survival due to their low bargaining power and inadequate knowledge. In most instances they wake up to hear of foreign land deals made by their governments without their inputs (moodie, 2011).

The major frontiers of the acquisition in farmland abroad deals are food-importing countries with land and water constraints but rich in capital, such as Gulf States. Also, Countries such as China, South Korea and India with large populations and food security concerns seeks opportunities to produce food for their teeming population abroad. The present land acquisition in Africa would further increase the incidence of food insecurity in the region. At a time when the food aid convention is being instituted for seeking aid to improve the provision of reliable amount of food supplies to developing countries, foreign land acquisition will be dwindling the potential of adequate food production in Africa. With the increasing upwards shot in food prices since 2007, falling food aid to Africa and the incessant rise in land acquisition, the incidence of hunger tends to rise in the region, which results into much hunger (IFPRI Policy Brief, 2009).

The combination of the global crises in food, energy, finance and the environment has driven a dramatic revaluation of land ownership in the past few years with Sub-Saharan Africa

recognized as the site for most speculative major land deals (Braun and Meinzen-Dick, 2011; Saturnino et al, 2011). The media and some empirical research on land deals often view foreign land acquisition to be due to need for production of food and biofuels for export to finance-rich but resource-deficient countries in the face of the recent food and energy crises. Also, a number of empirical studies attribute rise in land and farm investments worldwide over the years to be due to a number of factors ranging from growing demand for food, water and fuel; opportunities provided by the speculative market; and countries seeking to secure their own food sources to protect them against future market upswings in food price and availability (Nidhi, 2010; Braun and Meinzen-Dick, 2011). Many researchers attribute the rising interest in land deals, particularly in Africa, Asia and Latin America to be the effects of food crisis and population expansion. According to Annelies (2010), emerging literature and the media attributes main processes driving the “foreignisation of space” to production of food and biofuel for export in the aftermath of recent food and energy crises, however, the study argued that some other processes exist that drives land rush as an analytical framework that focuses on one or two processes will offer a narrow perspective to a complex problem.

One of the implications of land deals in Africa will be the displacement of local farmers from their ancestral land by turning valuable agricultural land for industrial use. This issue is a plight of Africa endowment as farmland is not only central to export income of most Africa countries (as the bulk, over 90% of Africa export goods are commodity in nature) but highly significant to rural livelihood and national food security. This is given the fact that about 75% of the world’s poor people live in rural areas (it is more than that in most African countries), and most are involved in agriculture (Cotula et al 2009). With the understanding that agriculture remains fundamental to economic growth, poverty alleviation, and environmental sustainability; the issue of foreign land acquisition would endanger the prospect of developing Africa countries especially in curbing poverty. The up-surgling food crisis, growing human and environmental pressures has culminated into high foreign interest in farmland, which generates the worries over food security (Moodie, 2011). It is this recognition that the seven *Principles for Responsible Agricultural Investments* was initiated by the World Bank, FAO, UNCTAD, and IFAD, which was backed by the 2010 G8 Summit in Ontario. This is crucial as great proportion of African population (over 70% in some countries) dwell in the rural areas where their major livelihood is in agriculture. The export of most African countries depend largely on commodity products that require land for production, especially agriculture, mining and quarrying, which will be adversely not only for livelihood but for welfare and economic development the developing Africa.

Several media reports indicate that the least land deal in terms of acreage was 5,500 hectares; many are in million hectares. This gives some concern given that the acreage of land in any country is limited in supply, which implies that any foreign acquisition reduces the available land for agricultural purpose. Furthermore, with regards to the purpose of the land deals in Table, it can be observed that majority of them are for growing food crops such as rice, maize, wheat,

sweet sorghum. Others for producing crops needed for bio-fuels, crops for feeding animals, and for investment (hedge fund). This denotes the fact that foreign land acquisition is driven by the need to meet food security and investment that will yield future returns. To this end, this study will focus on the countries in Africa that the land deals are reported.

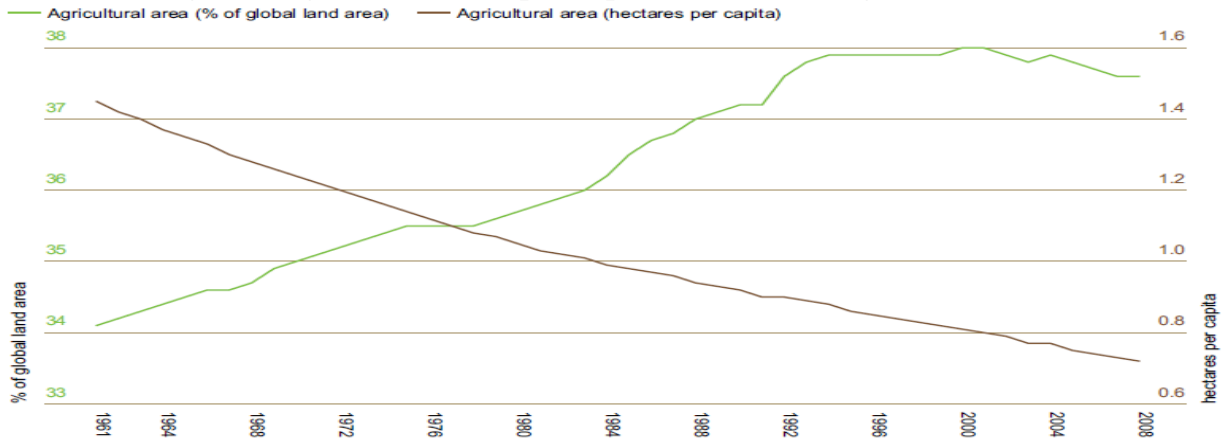
The study submits that major land deals in Africa with long duration (100 years) and acreage are made in countries known to have weak institutional quality and poor land governance. Although investors do promise employment and infrastructural development but often fail to deliver on their promises as there are no strong institutional machineries to drive it. It recommends the urgent need for recipient governments to clarify the kind of investment, how the returns from the land deals are to be distributed. The assessment of social and environmental impacts as well as transparency in decision-making and compensation of displaced land users are also recommended. This study concludes that foreign land acquisition is not utterly bad but it maintains that the recipient countries need to make adequate assessment of investment and development plans when such transactions are to be made, which can be done by setting up committee on land acquisition charged with the responsibility of consultation, implementation and compensation.

## 2.0 Background/Stylized facts

### 2.1 Land and Land Deals in Africa

The demand for land across the world has remained on the increase. The growing population among others can be blamed for this. Since the supply of land is fixed and the demand varies, then there is the issue of inadequate land to meet economic activities. For instance, Figure 1 reports that the available land for agricultural purposes around the world is consistently reducing. This implies that available land is insufficient for the growing population especially to sustain their agricultural activities. Also, Figure 1 shows that agricultural land as a percentage of global land area has been on the increase around 2000. Thereafter, it has witnessed considerable decline with some degrees of fluctuations. Modie (2011), and Oxfam International (2011), attributed this decline to the use of land for non-food production such as bio-fuels, carbon sequestration, and forest protection.

**Figure 1: Agricultural Land per Capita and as Percentage of Global Land**

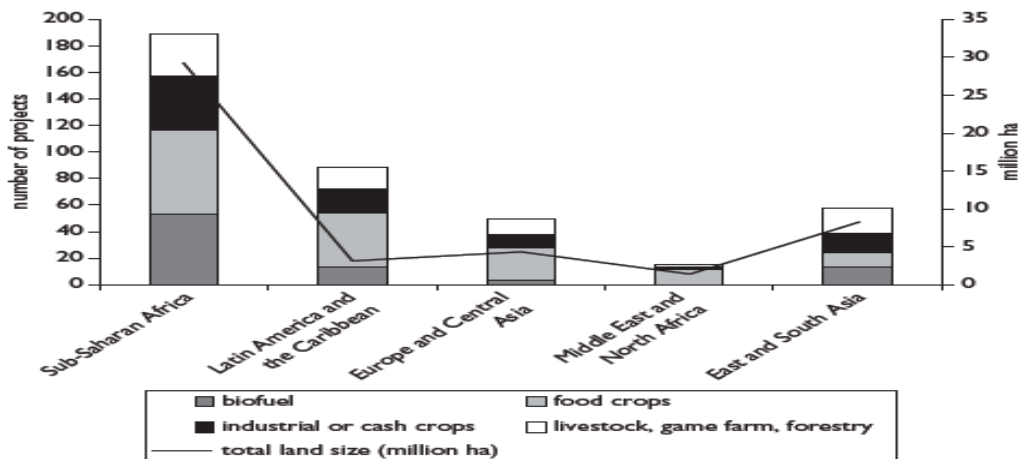


Source: Oxfam International

The consequences of unavailability of land to meet the growing demand for it, has brought about foreign land acquisitions. By this, agents demanding for land, seek out opportunities to acquire land in places outside their origin. In recent times, the issue of LSFLAs has remained central to debates among media reporters, scholars, policy-makers and urban managers. This is because of the central role of land as an economic resource and the possibility of value appreciation. These LSFLAs are acquired for diverse reasons. Based on this, Figure 2 presents the distribution of land projects and their drivers across the regions of the world.

As can be observed in Figure 2, the proportion of land deal in SSA is far higher than other regions in the world. According to Deininger et al (2011), out of 464 land projects, 203 included area information that summed up to 56.6 million hectares (ha) cutting across projects in 81 countries but 48% of the projects covered 39.7 million ha, representing about two-third of the total area in Sub-Saharan Africa (SSA). This is distantly followed by East and South Asia with 8.3 million ha.

**Figure 2: Distribution of Projects/ Land Area across Regions of the World**



Sources: Brüntrup (p.3) and Deininger et al (p.52).

To further buttress the observation from Figure 2, Anseeuw *et al* claimed that Africa is the most targeted. They observed that from the 754 land deals for which information was available, 56.2 million ha are located in Africa, 17.1 million ha in Asia and 7 million in Latin America. A stunning revelation from their data is that out of the 11 most targeted countries by foreign land investors, about 64% are African namely, Ethiopia, DR Congo, Madagascar, Mozambique, Tanzania, Sudan and Zambia.

One of the implications of these land deals is the displacement of local farmers from their ancestral land by turning valuable agricultural land for industrial purposes. Paradoxically, these industrial development and production are not targeted at the benefit of the host community, but for the needs of the countries of origin. Anseeuw *et al*, observed that of the 393 land cases where information on the destination of production from foreign land investors is available, domestic markets are of little concerns.

This issue is a plight for Africa endowment as farmland is highly significant to rural livelihood and national food security. Moodle, and Oxfam International noted that the growing human and environmental pressure accompanied by land acquisition has generated the worries over food security. The food price crisis has increased the anticipated returns on land and water resources, making farmland prices increase across the world.

A summary of the major land deals reported in some African countries are presented in Table 1. The land deals reported in Table 1 involved both private foreign firms acquiring land in Africa and those that involved governments, for the period 2006-2009.

**Table 1: Summary of Land Deals in Africa (2006-2009)**

Target country	Investor's country	Nature of Land Deals
Angola	Lonrho (UK)	25000 ha leased for rice. Lonrho is negotiating for a further 125,000 ha in Mali and Malawi.
Cameroun	Unknown company (China)	10,000 ha secured for rice.
Congo, DR	China (ZTE International)	2-8 million ha secured for biofuel oil palm plantation.
Congo,DR	Agriculture South Africa (South Africa)	10 million ha offered to farmers' union.
Egypt	Jenat (Saudi Arabia)	10,000 ha secured for barley, wheat, and livestock feed.
Ethiopia	Flora Ecopower (Germany)	13,000 ha secured for biofuel crops; contract farming arrangement.
Ethiopia	Sun Biofuel (UK)	Land secured for Jatropa (biofuel).
Ethiopia	India	US\$4 billion invested, including agriculture, flower growing and sugar estates.
Ethiopia	Unknown private investors (Saudi Arabia)	Land leased in exchange for US\$100 million investment.
Kenya	Qatar	40,000 ha leased for fruit and vegetable cultivation in exchange for funding US\$2.3 billion port.
Madagascar	Daewoo (South Korea)	1.3 million ha secured for maize.
Malawi	Djibouti	Unknown area of farm land leased.
Mali	Libya	100,000 ha leased for rice.
Mozambique	Skebab (Sweden)	100,000 ha secured for biofuel crops.
Mozambique	China	US\$800 million investment to expand rice production from 100,000 to 500,000 metric tons; political opposition to deal.
Nigeria	Trans4mation Agritech Ltd (UK)	10,000 ha secured.

Sudan	Egypt	Land secured to grow 2 million tons of wheat annually.
Sudan	Jordan	25000 ha secured for livestock and crops.
Sudan	Kuwait	'Giant' strategic partnership; no further information.
Sudan	Qatar	Joint holding company setup to invest in agriculture.
Sudan	Saudi Arabi (Hail Agricultural Dev. Co)	9,200-10,117 ha leased for wheat, vegetables and animal feed: 60% paid by Saudi government.
Sudan	South Korea	690,000 ha secured for wheat.
Sudan	United Arab Emirates (UAE)	378,000 ha total invested in by UAE.
Sudan	UAE (Abu Dhabi fund for development)	30,000 ha secured for corn, alfalfa, and possibly wheat, potatoes, and beans.
Sudan	Jarch capital (USA)	400,000 ha in Southern Sudan signed with local army commander.
Tanzania	CAMS Group (UK)	45,000 ha purchased for sweet sorghum.
Tanzania	Sun Biofuels (UK)	5,500 ha secured for Jatropa (biofuel).
Tanzania	Saudi Arabia	500,000 ha requested for lease.
Tanzania	China (Chongqing seed corp)	3000 ha secured for rice.
Zambia	China	2 million ha requested for Jatropa (biofuel).

**Note:** In addition to the countries in this Table, land deals have also been reported in Ghana and Sierra Leone.

**Source:** Compiled from IFPRI Policy (2009) Brief 13.

Apart from Djibouti, Egypt, Libya and South Africa that have been reported to be involved in land deal in Malawi, Mali, Sudan and Democratic Republic of Congo (DRC), respectively, all other land deals reported in Table 1 involved countries in the Middle East (Qatar, UAE, Kuwait, Saudi Arabia), Asia (Jordan, South Korea, China, India), Europe (Sweden, Germany, UK) and America (USA). As reported in the Table, the least land deal in terms of acreage was 3,000 ha; many are in million ha. This gives some concern given that the acreage of land in any country is limited in supply, which implies that any LSFLDs will reduce the available land for agricultural purpose.

In terms of the purpose of the land deals as reported, it can be observed that some of these deals are for growing food crops such as rice, maize, wheat, sweet sorghum. A sizeable fraction is proposed for producing crops needed for bio-fuels, and feeding animals. This denotes the fact that LSFLDs is driven by the need to meet food security and investment that is anticipated to yield future returns. Table 2 further portends that LSFLDs are focused on agricultural production, which represents 32.5 million ha, compared to tourism and industry that accounts for only 2.3 and 0.1 million ha.

**Table 2: Sectors Affected by Land Deals Around the World (2006-2009)**

	All Reported Deals		Reliable Data	
	Number of Deals	Hectares (millions)	Number of Deals	Hectares (millions)
Agriculture	1162	82.9	591	32.5
Forestry	78	3.1	65	2.2
Livestock only	55	0.4	34	0.2
Mining	91	3.9	51	1.6
Tourism	23	2.3	8	2.3
Industry	20	0.3	17	0.1
Conservation	2	0.3	2	0.3
No Information	237	12.8	31	3.8
Total	1668	106	799	43.1

Source: Land Matrix Data (2012).



To this end, the massive increase in land deals leaves several wondering on the implication on host communities. This is based on the fact that local markets are marginally considered in the production process of foreign land investors. Likewise, how feasible are institutions in the host country able to protect and bolster the rights/privileges of land owners. These will be examined in the subsequent sections.

## 2.2 Land and Institutions in Selected Countries

The study presents information on the countries where massive land acquisition has been reported, the 16 countries selected include: Angola, Cameroon, Democratic Republic of Congo (DRC), Egypt, Ethiopia, Ghana, Kenya, Madagascar, Malawi, Mali, Mozambique, Nigeria, Sierra Leone, Sudan, Tanzania and Zambia. As earlier noted, the countries selected are countries where the instances of LSFLDs have been reported (IFPRI and Land Portal).

Table 3: Indicators of land, food security and institutional quality in selected Countries

s/n	Country	arlandp		agrivalu		Net food export		RQ		PHR	
		1998	2008	1998	2008	1998	2008	1998	2008	2000	2008
1	Angola	0.22	0.19	13.03	6.64	-356.20	-1148.57	5.90	16.90	25.50	38.82
2	Cameroon	0.39	0.32	25.33	19.47	115.36	78.43	26.30	26.10	37.86	32.97
3	DRC	0.14	0.11	47.18	42.47	-182.54	-486.15	1.00	5.30	20.11	31.18
4	Egypt	0.04	0.04	17.11	13.22	-2474.65	-3487.00	15.60	21.30	30.11	33.57
5	Ethiopia	0.16	0.18	52.56	43.83	-105.29	-109.07	12.70	19.80	42.60	32.89
6	Ghana	0.20	0.18	40.23	29.05	357.23	471.06	47.30	55.00	67.41	67.41
7	Kenya	0.16	0.14	31.23	21.05	-196.89	-243.92	35.00	50.70	53.00	54.81
8	Madagascar	0.20	0.16	30.58	24.81	-38.19	-81.28	21.50	41.50	71.53	58.20
9	Malawi	0.23	0.21	35.58	30.11	-47.23	147.34	44.40	38.60	54.82	50.60
10	Mali	0.45	0.39	46.47	36.54	-55.12	-155.44	37.60	40.60	58.22	57.11
11	Mozambique	0.23	0.20	30.84	30.47	-157.31	-275.43	36.60	35.30	64.62	57.07
12	Nigeria	0.25	0.25	49.00	33.00	-839.68	-1964.84	18.00	29.50	45.84	37.49
13	Sierra leone	0.12	0.17	61.80	50.21	-128.15	-109.31	9.30	7.20	48.02	52.33
14	Sudan	0.50	0.48	46.35	26.25	135.26	-745.62	7.80	7.20		
15	Tanzania	0.27	0.22	33.76	29.71	-262.38	-343.14	37.10	38.20	63.43	56.93
16	Zambia	0.53	0.43	21.14	18.95	-138.71	-52.84	49.30	41.10	46.81	54.57
	<b>Average</b>	<b>0.26</b>	<b>0.23</b>	<b>36.14</b>	<b>28.49</b>	<b>-273.41</b>	<b>-531.64</b>	<b>25.34</b>	<b>30.46</b>	<b>48.66</b>	<b>48.42</b>

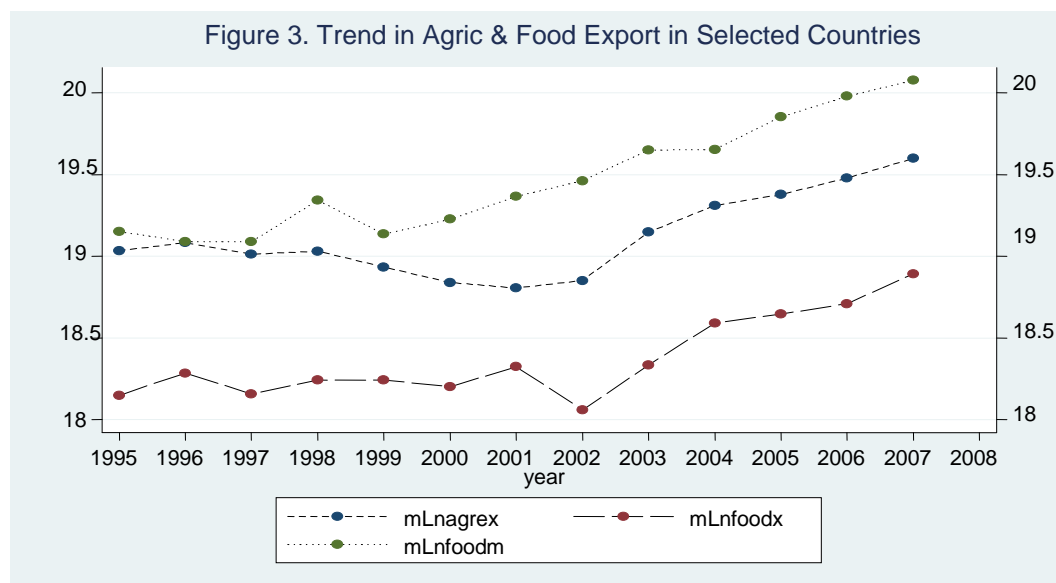
The indicator of land used is arable land ha per persons (*arlandp*) and agricultural value added as percentage of GDP (*agrivalu*) was used to reflect the relative productivity of the agricultural sector in the selected countries. Net food export, which is a proxy for food security was derived as the difference between food export and food import. Regulatory quality (RQ), which measures the ability of the government to formulate and implement sound policies and regulations. Participation and human rights (PHR), the RQ and PHR was used as a proxy for institutional quality (Kaufmann et al). The value of RQ was used as percentile -ranging from minimum of 0 (poorest institutional quality) to maximum of 100 (excellent institutional quality).

One major fact that can be inferred from the values in Table 3 is that all the countries experienced declined arable land per persons between 1998 and 2008. Likewise, agricultural value added as a percentage of GDP in all the 16 countries experienced some degrees of

reduction in their agricultural production. On the average the agricultural value added as percentage of GDP declined from 36.41% in 1998 to about 28.49% in 2008 and in some of the countries like Angola, it reduced by almost 50% as it dropped from 13.03% to as little as 6.64%.

With regards to the indicator of food security, apart from Cameroon, Ghana and Malawi, all other countries experienced negative net food export in 2008. Comparing the two periods, the average net food export worsened by decreasing from \$-273.41 million in 1998 to \$-531.64 million in 2008. Given the reduced arable land per persons accompanied by reduced net food export, there could be possible relationship between the two variables. As can also be observed in Table 3, the indicator of institutional quality had an average value of 30.46 in 2008 and some of the countries like DRC and Sudan; it was as low as 5.30 and 7.20, respectively. This reflects the level of weak institutional framework in the countries, which might have been one of the factors for the increased LSFLDs experienced by them.

In furtherance, the study examined the trends in agricultural export (*agrex*), food export (*foodx*) and food import (*foodm*) using the mean values of the 16 countries for the period 1995-2008. As shown in Figure 3, the variables had upward trends; however, agricultural and food exports exhibited some fluctuations. The crucial observation that can be made is that the food import was consistently above food export throughout the period. The trend indicates that the selected countries are increasingly becoming net food importers. This can be attributed among others to the weak institutions and growing insufficiency of land to boost the productive capacity from agricultural activities.



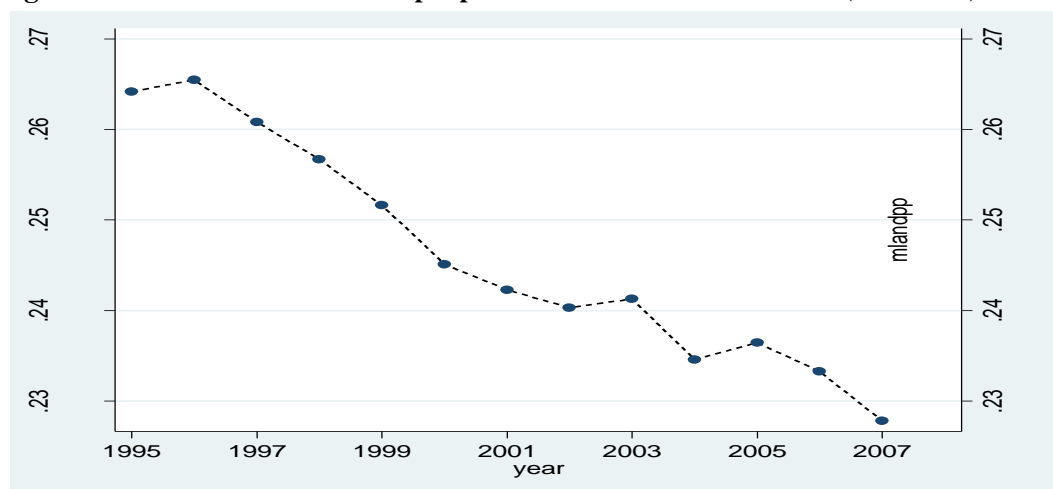
**Note:** Logarithmic transformed values were used to show the rate of change and make them more comparable.

**Source:** Authors' computation using African Development Indicators

Figure 4 is instructive as the trajectory for land available for agricultural purposes witnessed a consistent decline. The information in the graph about the plot of arable land ha per persons

indicates that the value has continuously declined over the period 1995-2008, except in 1996, 2003 and 2005. Another issue is that the value is less than 0.5 ha per persons. As can be observed from the graph, between 1995 and 2007, the value for arable land ha per persons has reduced more than 200%.

**Figure 4 Trend in Arable Land ha per persons in the Selected Countries (1995-2008)**



Source: Authors' computation using African Development Indicators

Having established the declining trend in agricultural land availability and the marginal production from agricultural activities, the study went further to examine the relative institutional qualities of these countries. We compared the institutional performance of these countries with the average values for SSA. This is intended to observe their institutional quality relative with the average value for SSA. We used four measures of institutional quality—rule of law, control of corruption, regulatory quality and government effectiveness. These variables are gathered from Kaufmann et al and their values range from -2.5 (worst/weak) to +2.5 (best/strong) institutional quality.

Table 4 presents, among others, the measures of rule of law (RL) and the control of corruption showing the average value for the entire SSA and the 16 sampled countries. RL reflects the extent to which economic agents (inclusive of household land owners and foreign land investors) have confidence in and abide by the rules of society. This includes the quality of contract enforcement, property rights protection and the effectiveness of the legal systems. While the control of corruption reveals the extent to which public power is exercised for private gain and the extent of elitist capture of the state for private interests. As reflected in table 4, the lower these scores, the easier it is for foreign investors to relent in their responsibilities since they are able to influence community leaders and public officers with private gains.

**Table 4: Institutional Quality in the Selected Countries and SSA Average**

	1996	1998	2000	2002	2004	2006	2008	2010
<b>Rule of Law (RL)</b>								
<i>Angola</i>	-1.60	-1.57	-1.62	-1.46	-1.34	-1.25	-1.28	-1.24
<i>Cameroun</i>	-1.44	-1.15	-1.16	-1.16	-1.14	-1.01	-0.99	-1.04
<i>DRC</i>	-1.95	-2.11	-2.01	-1.87	-1.82	-1.79	-1.68	-1.61
<i>Egypt</i>	0.08	-0.06	-0.03	-0.02	0.05	-0.15	-0.09	-0.11
<i>Ethiopia</i>	-0.84	-0.72	-0.82	-0.79	-0.69	-0.56	-0.60	-0.76
<i>Ghana</i>	-0.32	-0.44	-0.03	-0.11	-0.24	-0.02	-0.10	-0.07
<i>Kenya</i>	-0.98	-1.11	-0.96	-1.00	-0.89	-0.89	-0.98	-1.01
<i>Madagascar</i>	-0.63	-0.69	-0.32	-0.23	-0.14	-0.41	-0.46	-0.84
<i>Malawi</i>	-0.41	-0.56	-0.57	-0.66	-0.42	-0.53	-0.29	-0.14
<i>Mali</i>	-0.50	-0.51	-0.47	-0.38	-0.28	-0.40	-0.35	-0.46
<i>Mozambique</i>	-0.83	-0.91	-0.81	-0.75	-0.75	-0.70	-0.66	-0.50
<i>Nigeria</i>	-1.19	-1.30	-1.14	-1.45	-1.5	-1.14	-1.12	-1.21
<i>Sierra Leone</i>	-1.49	-1.18	-1.38	-1.33	-1.1	-1.16	-1.03	-0.94
<i>Sudan</i>	-1.60	-1.57	-1.46	-1.24	-1.52	-1.35	-1.50	-1.32
<i>Tanzania</i>	-0.21	-0.37	-0.42	-0.46	-0.4	-0.46	-0.28	-0.51
<i>Zambia</i>	-0.63	-0.58	-0.55	-0.49	-0.58	-0.63	-0.50	-0.49
<b>Average of 16 SSA</b>	<b>-0.91</b>	<b>-0.93</b>	<b>-0.86</b>	<b>-0.84</b>	<b>-0.8</b>	<b>-0.78</b>	<b>-0.74</b>	<b>-0.77</b>
	<b>-0.75</b>	<b>-0.73</b>	<b>-0.72</b>	<b>-0.71</b>	<b>-0.77</b>	<b>-0.73</b>	<b>-0.74</b>	<b>-0.74</b>
<b>Control of corruption (CC)</b>								
<i>Angola</i>	-1.16	-1.39	-1.55	-1.21	-1.31	-1.19	-1.22	-1.33
<i>Cameroun</i>	-1.16	-1.22	-1.03	-1.10	-1.08	-1.03	-0.90	-0.98
<i>DRC</i>	-2.06	-1.81	-1.71	-1.53	-1.44	-1.51	-1.31	-1.38
<i>Egypt</i>	-0.07	-0.28	-0.40	-0.33	-0.46	-0.52	-0.67	-0.56
<i>Ethiopia</i>	-1.16	-0.55	-0.45	-0.50	-0.72	-0.65	-0.66	-0.70
<i>Ghana</i>	-0.22	-0.31	-0.16	-0.32	-0.27	-0.03	-0.06	0.09
<i>Kenya</i>	-1.03	-1.13	-1.00	-1.02	-0.87	-0.89	-1.01	-0.91
<i>Madagascar</i>	0.20	-0.42	-0.05	0.13	-0.12	-0.25	-0.10	-0.27
<i>Malawi</i>	-0.22	-0.36	-0.37	-0.97	-0.76	-0.73	-0.59	-0.42
<i>Mali</i>	-0.44	-0.62	-0.64	-0.38	-0.37	-0.44	-0.47	-0.68
<i>Mozambique</i>	-0.36	-0.71	-0.68	-0.72	-0.74	-0.66	-0.55	-0.40
<i>Nigeria</i>	-1.16	-1.17	-1.25	-1.47	-1.36	-1.19	-0.92	-0.99
<i>Sierra Leone</i>	-0.78	-0.94	-0.93	-0.80	-0.88	-1.12	-1.07	-0.76
<i>Sudan</i>	-1.28	-1.00	-0.93	-1.02	-1.31	-1.17	-1.49	-1.33
<i>Tanzania</i>	-1.03	-1.12	-1.11	-1.01	-0.67	-0.40	-0.51	-0.49
<i>Zambia</i>	-1.03	-0.92	-0.94	-0.98	-0.86	-0.74	-0.48	-0.57
<b>Average of 16 SSA</b>	<b>-0.81</b>	<b>-0.87</b>	<b>-0.83</b>	<b>-0.83</b>	<b>-0.83</b>	<b>-0.78</b>	<b>-0.75</b>	<b>-0.73</b>
	<b>-0.59</b>	<b>-0.63</b>	<b>-0.58</b>	<b>-0.59</b>	<b>-0.67</b>	<b>-0.64</b>	<b>-0.62</b>	<b>-0.60</b>

**Source:** Authors' compilation/computation using Data from World Governance Indicator (2011).

From the Table, SSA countries performed poorly, considering that the RL score ranged from 0.71 to -0.77. Similarly, the sampled countries performed even worse as they had a lower score ranging from -0.77 to 0.93. During the period, some countries had score as low as -2.11 and 2.01.

Considering that the countries had negative scores for most of the period apart from Egypt that had positive scores in both 1996 and 2004, it will be rational to conclude that these countries legal system are not efficient to foster the protection of private properties and ensure qualitative contract terms especially in the case of foreign land acquisition. Likewise, the extent of

corruption and elitist capture still remain high based on the SSA control of corruption ranging from -0.59 to -0.67. The average value for the sampled countries is also disheartening as it remains in lower pedestal to SSA. This becomes an issue as households and landowners suffer by the dispossession of their ancestral lands to foreign investors, with poor benefits, because of corrupt practices from public officers and traditional leaders. Jacques (2010) observe that land acquisitions in Africa are cascaded with corruption due to the weakness of the government to enforce proper contractual agreement. This is the case in most parts of Africa where the government and other public officers engage in land contracts with foreigners with the intention of self actualisation. The Shonga case in Nigeria is an evident to this. Cotulla (2011); Aabo and Kring (2012) emphasized the height of lack of transparency in the land deal processes in most African countries. This will foster corrupt practices and elitist capture.

The quality of policies formulated by the government and the implementation of same for the promotion of private sector development was examined using the sampled countries. In cases where there is poor regulatory quality, the issues of unfair dealings come to be because there are no adequate institutions to regulate excesses of economic agents when dealing with related parties. From the Table 5, the value of the regulatory quality for SSA was negative in all he period. Similar reflection is observed from the values of the individual countries. Most of the countries had negative values for most of the period. This signifies that in these countries, there are poor policies to promote efficient private sector development.

The issue of land grabbing and the attendant severe consequences on the household and community cannot be resolved without sound regulatory qualities. In some cases, where lands are taken over for exploitation, land degradation and pollution become paramount and with poor regulatory qualities as observed from the Table, the communities suffer. Some of these consequences include pollution of the water accessible to the communities, air pollution bringing about organic mutations and the likes. However, the government responsiveness becomes cardinal.

**Table 5 Institutional Quality in the Selected Countries and SSA Average**

	1996	1998	2000	2002	2004	2006	2008	2010
<b>Regulatory Quality (RQ)</b>								
<i>Angola</i>	-1.45	-1.72	-1.82	-1.48	-1.25	-1.14	-1.06	-1.05
<i>Cameroun</i>	-1.13	-0.64	-0.60	-0.89	-0.66	-0.86	-0.83	-0.72
<i>DRC</i>	-1.83	-2.41	-2.11	-1.51	-1.59	-1.32	-1.30	-1.60
<i>Egypt</i>	0.01	-0.34	-0.35	-0.50	-0.49	-0.42	-0.18	-0.18
<i>Ethiopia</i>	-1.34	-1.18	-1.16	-1.23	-0.96	-0.95	-0.83	-0.88
<i>Ghana</i>	-0.38	-0.24	-0.09	-0.46	-0.34	-0.06	-0.02	0.09
<i>Kenya</i>	-0.37	-0.34	-0.30	-0.20	-0.28	-0.26	-0.24	-0.13
<i>Madagascar</i>	-1.05	-0.82	-0.46	-0.28	-0.32	-0.19	-0.32	-0.59
<i>Malawi</i>	-0.29	-0.23	-0.22	-0.47	-0.51	-0.45	-0.48	-0.57
<i>Mali</i>	-0.48	-0.24	-0.12	-0.44	-0.45	-0.41	-0.40	-0.47
<i>Mozambique</i>	-0.54	-0.29	-0.17	-0.30	-0.46	-0.52	-0.47	-0.37
<i>Nigeria</i>	-0.83	-0.93	-0.75	-1.26	-1.34	-0.91	-0.78	-0.78
<i>Sierra Leone</i>	-1.61	-1.33	-1.39	-1.27	-1.00	-1.17	-0.97	-0.72
<i>Sudan</i>	-1.37	-1.36	-1.44	-1.29	-1.17	-1.21	-1.47	-1.36
<i>Tanzania</i>	-0.42	-0.41	-0.25	-0.56	-0.45	-0.31	-0.50	-0.41
<i>Zambia</i>	-0.42	-0.12	-0.27	-0.62	-0.53	-0.65	-0.45	-0.49

<i>Average of 16</i>	<b>-0.84</b>	<b>-0.79</b>	<b>-0.72</b>	<b>-0.80</b>	<b>-0.74</b>	<b>-0.68</b>	<b>-0.64</b>	<b>-0.64</b>
SSA	<b>-0.75</b>	<b>-0.71</b>	<b>-0.67</b>	<b>-0.68</b>	<b>-0.74</b>	<b>-0.73</b>	<b>-0.74</b>	<b>-0.71</b>
<b>Government Effectiveness (GE)</b>								
<i>Angola</i>	-0.84	-1.36	-1.46	-1.25	-1.34	-1.43	-1.07	-1.12
<i>Cameroun</i>	-1.00	-0.74	-0.67	-0.82	-0.73	-0.92	-0.79	-0.89
<i>DRC</i>	-1.69	-1.97	-1.96	-1.74	-1.47	-1.66	-1.68	-1.72
<i>Egypt</i>	-0.15	-0.17	-0.21	-0.41	-0.26	-0.61	-0.44	-0.43
<i>Ethiopia</i>	-1.28	-0.94	-0.91	-0.93	-0.71	-0.59	-0.41	-0.35
<i>Ghana</i>	-0.11	-0.14	0.02	-0.20	-0.27	-0.01	0.04	-0.01
<i>Kenya</i>	-0.34	-0.49	-0.54	-0.70	-0.59	-0.62	-0.56	-0.54
<i>Madagascar</i>	-0.58	-0.83	-0.64	-0.47	-0.44	-0.57	-0.63	-0.82
<i>Malawi</i>	-0.51	-0.31	-0.38	-0.69	-0.70	-0.75	-0.51	-0.40
<i>Mali</i>	-1.21	-1.05	-0.87	-0.63	-0.66	-0.77	-0.90	-0.88
<i>Mozambique</i>	-0.14	-0.39	-0.43	-0.44	-0.56	-0.59	-0.44	-0.47
<i>Nigeria</i>	-0.98	-1.12	-0.94	-0.99	-0.80	-0.88	-0.98	-1.20
<i>Sierra Leone</i>	-1.47	-1.46	-1.46	-1.51	-1.12	-1.18	-1.17	-1.19
<i>Sudan</i>	-1.12	-1.22	-1.19	-1.13	-1.23	-1.14	-1.28	-1.37
<i>Tanzania</i>	-0.73	-0.42	-0.42	-0.35	-0.37	-0.44	-0.48	-0.50
<i>Zambia</i>	-1.06	-0.86	-0.86	-0.83	-0.77	-0.78	-0.74	-0.80
<i>Average of 16</i>	<b>-0.82</b>	<b>-0.84</b>	<b>-0.81</b>	<b>-0.82</b>	<b>-0.75</b>	<b>-0.81</b>	<b>-0.75</b>	<b>-0.79</b>
SSA	<b>-0.72</b>	<b>-0.69</b>	<b>-0.69</b>	<b>-0.68</b>	<b>-0.72</b>	<b>-0.77</b>	<b>-0.75</b>	<b>-0.77</b>

**Source:** Authors' compilation/computation using Data from World Governance Indicator (2011).

This study underpins that in situations where the government are responsive to the ordeals of the citizens, the adverse consequences of land grab will be marginal. This is based on the fact that in cases where foreign investors are not able to meet up with their agreements, the government is supposed to take adequate measures to ensure the attainment of such agreement. However, in cases where they are easily influenced, foreign investors will find their way through.

The data in Table 5 reveals the extent of government responsiveness by using government effectiveness as a measure. Government effectiveness reflects the quality of public officers, the quality of policy formulation and implementation, and the credibility of the government's commitment to such policies. It includes the independence of the government and the extent they can easily be influenced. As seen in the table 5, the SSA countries records negative values; this suggests that the governments in these countries will be easily influenced and when policies are developed, the political will to ensure the adherence to such policies will be lacking. Therefore, this signifies the intense extent of land grab in these countries.

From the foregoing, this study has been able to prove that institutional quality matter in the extent of foreign land grab in Africa. As the Tables reveal, the countries with the most issue of foreign land acquisition have low institutional qualities.

### 3.0 Data and methodology

To further buttress the ongoing analysis, the study adopt an empirically investigation of the impact of large scale land acquisition on agricultural export in selected Africa countries where cases of LSFLD have been reported. The study selects 16 countries in Africa where the issue of foreign land deals have been reported. It analyzed the availability of land to agricultural

production using the period 1995-2010. This is to establish the extent of land rush in these countries during the periods of media report (2006-2009) as reported in Table 2.1. Given the role of governance and institutions in this discourse, the study also brought to bear the data on institutional quality including: property rights and rule based government, voice and accountability, strength of legal rights, rule of law, regulatory quality, government effectiveness and property and human rights.

The econometric analysis used panel data on the 16 countries for the period 1995-2008 to estimate the formulated model drawing from institutional development theories. The choice of the period was informed by data availability while cases of LSFLDs informed the choice of the 16 countries that cut across Central, East, North, Southern and West Africa.

The generalised method of moments (GMM) estimator was used due to the short panel structure as well as ability to handle the challenge of endogeneity as institutions may not be exogenous (Acemoglu and Johnson; Meon and Sekkat; Osabuohien). In addition, the availability of land for agricultural production was interacted with indicators of institutional quality with a view to establishing whether or not both variables have joint significant influence on agricultural export and food security. Details on the econometric model as well as the results from GMM are in the Appendix because of the need to be concise.

Table 8: Data sources and measurement

Variable	Description	Source	measurement
agrexp	Agricultural export	Datamarket of Iceland (World Bank)	Constant US dollar
agval	Agricultural value added (percentage of GDP)	World Development Indicators	Constant US dollar
aglnd	Agricultural land (percent of arable land)	World Development Indicators	Constant US dollar
exchr	Exchange rate	World Development Indicators	Rates
<i>Citizen Rights</i>			
slr	Strength of legal rights	Datamarket of Iceland (World Bank)	Number
phr	Property and human rights	Datamarket of Iceland (World Bank)	Number
prrbg	Property rights and rule based government	Datamarket of Iceland (World Bank)	Number
<i>Political rights and participation</i>			
va	Voice and accountability	World Governance Indicators	Unit
rl	Rule of law	World Governance Indicators	Unit
Effective governance			
rq	Regulatory quality	World Governance Indicators	Unit
ge	Government effectiveness	World Governance Indicators	Unit

#### 4.1 Econometric model

The econometric model is based on the fact that Large Scale Foreign Land Acquisitions-LSFLAs may not have a direct measure in terms of its influence on agricultural export and food security. The study adopts the new institutional economics (NIE) theory and the Laporta et al

(1999) theories of institutional development. Thus, we used a rather indirect proxy with the understanding that the occurrence of large scale foreign land acquisitions (LSFLAs) will reduce the domestic land availability for agricultural production, which may affect agricultural export and food security. The dependent variable is agricultural export as reported in African Development Indicators (ADI).

The model for the study is:

$$Y = \alpha_{it} + \beta Agval_{it} + \phi Aglnd_{it} + \psi Exchr_{it} + \delta inst_{it} + \varepsilon_{it}$$

Since institutions may be endogenous in nature and may cause the problem of endogeneity in the model. Therefore, equation (1) can be rewritten as:

$$Y = \alpha_{it} + \infty Y_{it}^* + \beta Agval_{it} + \phi Aglnd_{it} + \psi Exchr_{it} + \delta inst_{it} + \varepsilon_{it}$$

Our measures of institutional quality were grouped into three as indicated in table 8 above. Indexes capturing different categories of the institutional variables were obtained which include Citizen Rights (*crg*) generated from strength of legal rights, participation and human rights, and property rights and rule based government. Also, political rights and participation index (*prp*) was generated from voice and accountability, and rule of law while effective governance index (*gvn*) was generated from regulatory quality and government effectiveness.

Also, additional variables were generated which shows the interactions between institutional qualities (*crg*, *prp*, *gvn*) and agricultural land as percentage of land area (*aglnd*). The interaction between the indicators of institutional qualities and agricultural land (*crg\_aglnd*, *prp\_aglnd* & *gvn\_aglnd*) was generated with a view to capture the effect when relating the institutional qualities with the agricultural land as well as the coefficient of consequent influence on the dependent variables.

The models to be estimated with the inclusion of the interacting variables are as specified below:

$$Y = \alpha_{it} + \infty Y_{it}^* + \beta Agval_{it} + \phi Aglnd_{it} + \psi Exchr_{it} + \delta inst_{it} + \theta crg\_aglnd_{it} + \varepsilon_{it}$$

$$Y = \alpha_{it} + \infty Y_{it}^* + \beta Agval_{it} + \phi Aglnd_{it} + \psi Exchr_{it} + \delta inst_{it} + \lambda prp\_aglnd_{it} + \varepsilon_{it}$$

$$Y = \alpha_{it} + \infty Y_{it}^* + \beta Agval_{it} + \phi Aglnd_{it} + \psi Exchr_{it} + \delta inst_{it} + \Theta gvn\_aglnd_{it} + \varepsilon_{it}$$

Hypothetically, when the coefficient of *crg\_aglnd*, *prp\_aglnd* & *gvn\_aglnd* is positive, it could be said that institutional quality will promote agricultural land capacity to enhance agricultural export and food security. In that case, better institutional quality would be deemed as complementing the agricultural land to boost agricultural export and food security. The converse would imply that institutional quality is poor accelerator of agricultural land in promoting export and food security.



## 4.2 Econometric Analysis

The econometric results presented in this sub-section were mainly made to further buttress the analysis from our descriptive stylized statistics. Thus, the results are presented in the Appendix while the major issues and implications are briefly summarised herein. The results in Table A1.1 were obtained using the indicators of institutions obtained from the data market of Iceland; their categorized indexes interacted with agricultural land. In Table A1.1, columns A, B and C represent agricultural export equation using the indicators of institutions from citizen rights, In the same manner, columns D, E and F in table A2.1 are the equations with agricultural export controlling for the indicators of institutions from political rights and participation while columns G, H and I in table A3.1 shows the agricultural export equation with institution indicators of effective governance.

As can be seen from the results, the test statistics for the evaluation of the model, namely: AR(1), AR(2), Sargan and Wald indicate that the model was efficient and the estimate can be reliable. Prior to this estimation based on system GMM, a preliminary analysis was done using the Ordinary Least Squares (OLS), Fixed Effects (FE) and Random Effects (RE). However, this study focused on GMM estimates with a view to handle the possible challenge of endogeneity.

Examination of the explanatory variables shows that the lagged values agricultural export with different indicators of institution and indexes had the expected positive signs. However, the past value of agricultural export was statistically significant at 5% in explaining the current agricultural export. The implication of this is that what happens to agricultural export in the year has significant influence in the following year. Results from table A1.1 where the performance of agricultural export under the institutional indicators of citizen rights was observed show that all measures of institution were significant except strength of legal rights (*slr*). An index of *slr*, *phr* and *prrg* was generated in order to obtain a strong measure of citizen right (*crg*) which was found to be highly significant. Likewise the indicator of institutional framework (*crg*) becomes highly significant with expected when interacted with agricultural land. With regards to agricultural land, the values had expected signs in columns A, B, C, D, E, F, G, H, I. It was statistically significant in all the equations but the coefficients became relatively larger with interaction variables

The implication of the above is that agriculture land is essential in promoting agricultural export but the extent to which it becomes very useful lies in the nature of institutional quality of the country. This finding becomes interesting when it is viewed from the lens that most LSFLDs investors usually target countries that do not have strong institutions. In the selected African countries context, the need for strengthening institutional framework cannot be over emphasised. Though there was no direct LSFLDs case study using agricultural land as proxy, one could find some empirical evidence to suggest stronger institutional framework as panacea to managing land resources from the standpoint of the issue of LSFLDs. Thus, institutions matter.

Likewise, results as readily available in table A2.1 and A3.1 where institutional framework capturing political rights and participation, and effective governance respectively reveal similar trend as discussed above. In table A2.1, though the indicator of voice and accountability was not significant and negative but the index (of *va* and *rl*) was significant and become highly significant when interacted with the proxy for LSFLD (agricultural land). Also in table A2.1, though the index of *rq* and *ge* was not significant but became highly significant when interacted with agricultural land. As observed in table A1.1, the coefficient of agricultural land becomes relatively larger with interaction variables. The findings from our estimation results have important implication for agricultural trade in developing Africa countries, most especially in the selected countries where LSFLDs were reported; as more arable agricultural land is acquired or grabbed by foreign investors or government, the volume of agricultural produce and exports dwindle which will ultimately widen the incidence of food insecurity, exacerbate poverty trap and culminates into foreign exchange losses.

Other explanatory variables especially per capita income had the expected positive sign and significant level. Similar observation can be made for exchange rate. Agricultural value added was mainly significant for agricultural export, indicating that increase in the value of agricultural production will improve agricultural export.

## 5.0 Conclusion

The study, which was basically motivated by large scale foreign land deals (LSFLDs), made effort to explore the possible implications of LSFLDs in Africa with respect to agricultural export and food security. This was done by providing some empirical evidences on the 16 selected African countries where there has been instances of LSFLDs.

The study concludes that most of the selected countries experienced considerable decline in arable land per persons. Similarly, it was found that most of the selected countries are net food importers indicating threat to food security, which has worsened between 1998 and 2008. The study established that reduction in arable land ha per persons was accompanied by increased net food importation indicating possible association between arable land ha per person and net food import. It was also found that the indicator of institutional quality in the selected countries was rather weak, which was relatively lower than the SSA average. Thus, the study confirms that most investors of LSFLDs mainly target countries that do not have strong institutional quality.

In the same manner, the empirical investigation from the study found the interaction variables (*crg\*aglng*, *prp\*aglng* and *gvn\*aglng*) to exert a highly significant variation on agricultural export. This implies that availability of agricultural land has an important implication for agricultural export of the host country. In cases, where land are acquired to service the teeming population of home country of foreign investors or government; the host country is left vulnerable to incidence of food insecurity, as majority of rural dwellers in Africa rely on subsistence farming for livelihood. In the same manner, the host country losses foreign exchange

accruable from agricultural export, farmer's income falls, food inflations rises, which will ultimately expands the threshold of poverty.

The study concludes by recommending the need for strengthening institutional framework especially the promotion of reliable legal and procedural mechanism in order to protect local rights and take into cognisance the aspirations of citizens. It also calls for assessment of social and environmental impacts as well as transparency in decision-making whenever there are transactions involving land deals. Thus, the study calls for case study to further provide empirical evidence on impact assessment on samples of land deals in Africa. This will help to examine the negotiation process and possible impact such deals will have on the immediate host community.

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## APPENDIX

Table A1.1		Agricultural export (citizen rights)		
VARIABLES	(A) lagrexp	(B) lagrexp	(C) lagrexp	
L.lagrexp	0.845*** (0.0371)	0.755*** (0.0539)	0.729*** (0.0675)	
agval	0.0113** (0.00498)	0.00799* (0.00471)	0.00805* (0.00467)	
aglnd	-0.00605*** (0.00199)	-0.00750*** (0.00198)	-0.216*** (0.0523)	
lgdpc	0.328*** (0.117)	0.208* (0.111)	0.228** (0.111)	
exchr	-5.38e-05 (4.64e-05)	-0.000161*** (5.80e-05)	-0.000125** (5.51e-05)	
slr	0.0187 (0.0267)			
phr	0.00718** (0.00327)			
prrbg	0.208** (0.0855)			
crg		0.456*** (0.101)		
crg_aglnd			0.0110*** (0.00266)	
Constant	0.129 (0.887)	-4.882*** (1.294)	4.030*** (1.550)	
Observations	212	212	212	
Number of id	16	16	16	

Standard errors in parentheses  
 \*\*\* p<0.01, \*\* p<0.05, \* p<0.1

Table A2.1 Agricultural export (political rights and participation)

VARIABLES	(E) lagexp	(F) lagexp	(G) Lagexp
L.lagexp	0.871*** (0.0456)	0.890*** (0.0492)	0.879*** (0.0435)
agval	0.0144* (0.00774)	0.0175** (0.00833)	0.0203* (0.0115)
aglnd	-0.000484 (0.00102)	0.000499 (0.000917)	-0.0813*** (0.0212)
lgdpc	0.275 (0.194)	0.354* (0.210)	0.459* (0.272)
exchr	-3.72e-05 (5.31e-05)	-1.51e-05 (5.49e-05)	-2.07e-05 (4.83e-05)
va	-0.0145 (0.0656)		
rl	0.236** (0.117)		
prp		0.117* (0.0606)	
prp_aglnd			0.00423*** (0.00112)
Constant	0.753 (2.129)	-2.665* (1.384)	-0.919 (2.531)
Observations	167	167	167
Number of id	16	16	16

Standard errors in parentheses  
\*\*\* p<0.01, \*\* p<0.05, \* p<0.1

Table A3.1 Agricultural export (effective governance)

VARIABLES	(H) lagexp	(I) lagexp	(J) lagexp
L.lagexp	0.869*** (0.0474)	0.902*** (0.0518)	0.902*** (0.0473)
agval	0.0171** (0.00724)	0.0193** (0.00840)	0.0255** (0.0110)
aglnd	-0.00223 (0.00168)	-0.00144 (0.00188)	-0.0717*** (0.0164)
lgdpc	0.284 (0.196)	0.369 (0.231)	0.551** (0.260)
exchr	-2.90e-05 (5.00e-05)	1.28e-05 (5.08e-05)	3.39e-05 (5.29e-05)
rq	0.192** (0.0846)		
ge	0.174 (0.153)		
gvn		0.113 (0.0708)	
gvn_aglnd			0.00363*** (0.000822)
Constant	0.811 (2.250)	-2.926** (1.397)	-2.063 (2.600)
Observations	167	167	167
Number of id	16	16	16

Standard errors in parentheses  
 \*\*\* p<0.01, \*\* p<0.05, \* p<0.1