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# Weathering the Storm: Agricultural Development, Investment, and Poverty in Africa Following the Recent Food Price Crisis

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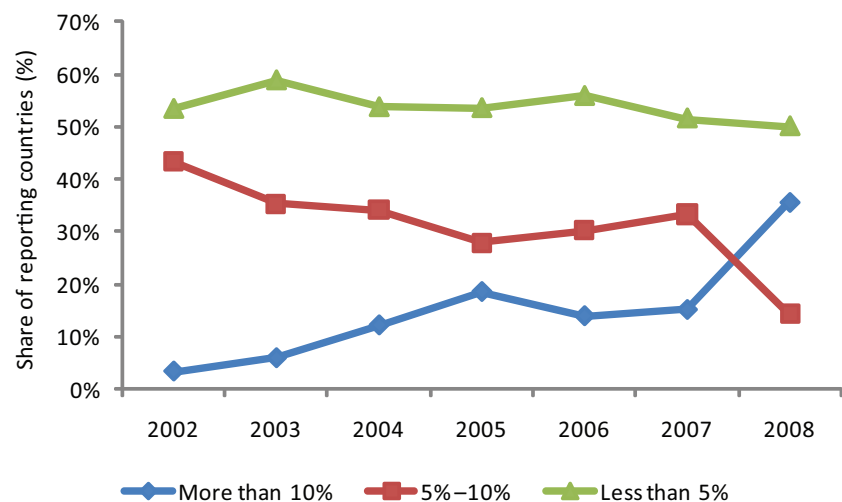








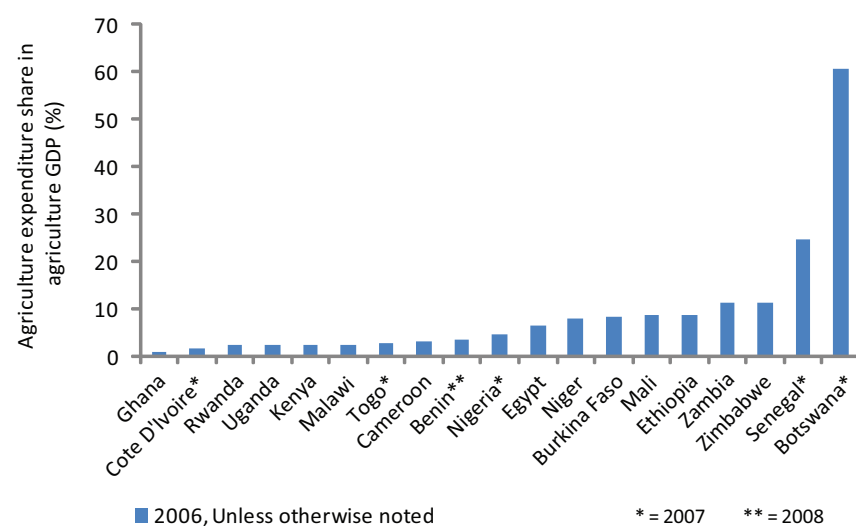
FIGURE 8—PROGRESS TOWARD 10% AGRICULTURAL EXPENDITURE SHARE



Sources: Based on ReSAKSS data collected from various national government sources and IMF 2009.

Notes: 2009 was excluded due to limited data availability.

FIGURE 9—AGRICULTURAL EXPENDITURE AS A SHARE OF AGRICULTURAL GDP, MOST RECENT YEAR REPORTED



Sources: IMF 2008; Benin, Thurlow, Diao, McCool and Simtowe 2008; Benin, Thurlow, Diao, Kalinda and Kalinda 2008.

therefore, important to the national economy. In other cases, the 10 percent of total spending may translate into a 15 percent share of agricultural GDP for countries where the agricultural sector is less important. Botswana, for example, has barely spent 5 percent of total expenditures on the sector since 1980, yet this represents more than 60 percent as a share of agricultural GDP (Table 2 and Figure 9).

The ratio of agricultural expenditures to agricultural GDP is low in Africa when compared with Asia. On aggregate, Africa spent between 5 and 7 percent as a share of agricultural GDP, while Asia spent between 8 and 10 percent. With the exception of Botswana, Zambia and Zimbabwe, African countries have spent less than 10 percent of their agricultural GDPs on agriculture in recent decades. Yet, country

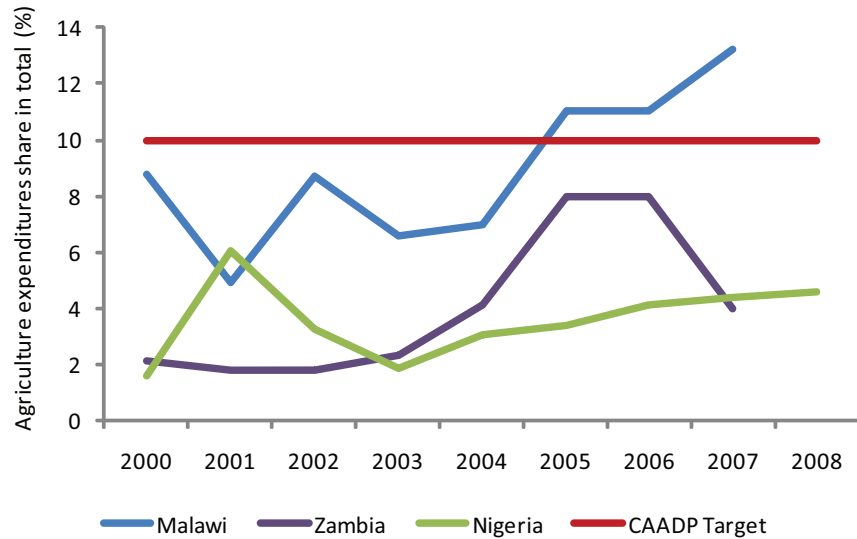
TABLE 2—LEVEL OF AGRICULTURAL EXPENDITURES AS A SHARE OF AGRICULTURAL GDP, MOST RECENT YEAR REPORTED (2006, UNLESS OTHERWISE INDICATED)

At least 10 percent	5 percent to less than 10 percent	Less than 5 percent
Botswana <sup>1</sup> Zambia Zimbabwe	Burkina Faso Egypt Ethiopia Mali Niger	Benin <sup>2</sup> Cameroon Cote d'Ivoire <sup>1</sup> Ghana Kenya Malawi Nigeria <sup>1</sup> Rwanda Togo <sup>1</sup> Uganda

Sources: IMF 2008; Benin, Thurlow, Diao, McCool and Simtowe 2008; Benin, Thurlow, Diao, Kalinda and Kalinda 2008.

Notes: 1. 2007; 2. 2008.

**FIGURE 10—AGRICULTURE EXPENDITURE SHARE IN TOTAL EXPENDITURES FOR MALAWI, ZAMBIA AND NIGERIA, 2000-2008**



Sources: ReSAKSS data collected from various national government sources, IMF 2009 and Benin et al. 2008.

level data shows that the range can be considerable. Botswana had the highest percentage in 2006 at over 60 percent while Cote d'Ivoire and Ghana spent less than 2 percent in the same year.

The inability of African countries to substantially raise the level of their agricultural investments may have serious implications for poverty reduction and food security. Recent estimates indicate that in order to achieve MDG1, the continent will need to boost agricultural spending by US\$13.6 billion (2007 dollars) annually from 2008 to 2015, with a cumulative total of US\$95.7 billion (Fan, S. et al. 2008).<sup>5</sup> This suggests that the continent will need to increase its agricultural spending by at least 20 percent per year.

### | Resource efficiency

As governments increase their budgetary allocations to agriculture, it is important to further examine the quality of this spending. How are governments allocating these funds? Are these funds coming from government sources or from donors? And is spending diverging from allocations?

To better understand the causes of poor agricultural investment ratios in Africa, three country case studies are drawn from here: Malawi, Zambia, and Nigeria.<sup>6</sup>

Agricultural spending has been increasing in all three countries since 2000, with Malawi even surpassing the CAADP 10 percent target in recent years (Figure 10).

In Malawi and Zambia, the majority of this increase in spending on agriculture has come from government sources as opposed to donors (Figure 11 and Figure 12). In Zambia, fiscal dependence on development partners for agricultural spending declined from 48 percent in 2000 to 18 percent in 2008. Likewise, in Malawi, the donor share of total government spending on agriculture declined from 41 percent in 2000 to 23 percent in 2007, with a low of 12 percent in 2006. This is a positive development for sustainability and independence from aid but there could also be a need for donors to increase their support for agriculture.

**TABLE 3— COMPOSITION OF AGRICULTURE SPENDING**

	Ghana (2000-2005)	Malawi (2000-2007)	Nigeria (2001-2005)	Zambia (2000-2008)
Price support				20.2
Inputs			43.5	39.7
Food security		50.5	22.0	
Livestock			2.7	3.3
Fishery		3.2		1.1
Crops, livestock, and fishery (aggregated)	23.7			
Forestry	3.5	7.3		4.1
Cocoa	62.2			
Research and extension	10.6	13.0		21.7

Sources: Benin, Thurlow, Diao, Kalinda and Kalinda 2008; Benin, Thurlow, Diao, McCool and Simtowe 2008; Mogues et al. 2008; Nijwa et al. 2008; Govereh et al. 2009.

<sup>5</sup> Excludes Zimbabwe as an outlier. Based on a sample of 30 Sub-Saharan African countries.

<sup>6</sup> Govereh, et al. 2009; Mogues et al. 2008 and Njiwa, et al. 2008.

The overwhelming trend for these countries is that they are all investing primarily in one particular program. For instance, Ghana has focused on one particular crop (cocoa), while Nigeria, Malawi, and Zambia have invested most heavily into input support (Table 3). Yet input support is a short-run distributive program, which will have short-term productivity gains but not the longer-term results that agricultural research or irrigation investments would have.<sup>7</sup> A single subsector-dominant investment strategy is unlikely to yield desirable outcomes on its own. This pattern raises concerns about the sustainability and balance of agriculture spending (Benin, Thurlow, Diao, Kalinda and Kalinda 2008; Benin, Thurlow, Diao, McCool and Simtowe 2008).

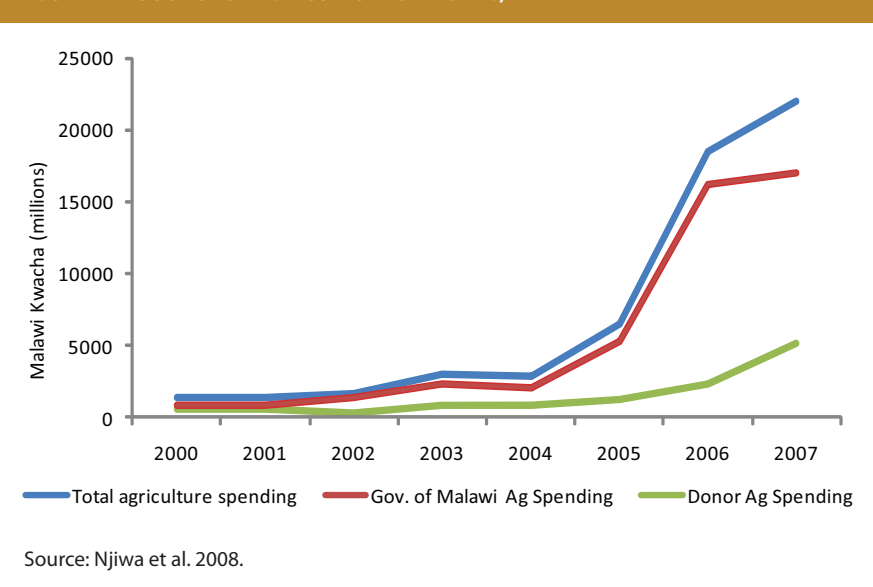
The ratio of actual spending to budgeted spending is known as the investment gap ratio, and is a measure of how efficiently resources are being used. The Public Expenditure and Financial Accountability (PEFA) best practice standard is a maximum of a 3 percent discrepancy between budgeted and actual expenditures, which is equal to a ratio of 97 percent (Mogues et al. 2008). If a country's ratio exceeds 97 percent, it suggests that the government is underusing approved funds which could be a symptom of capacity problems. If the ratio is over 100 percent, it is indicative of government overspending.

Inefficient budget execution may negatively impact policy planning, design, and implementation and can make it difficult to attain goals and expected outcomes for projects and policies. One result is that programs may have to change or end midstream if promised funding does not materialize. Extreme investment ratios also erode the credibility of a government's claim that approved projects will actually be financed.

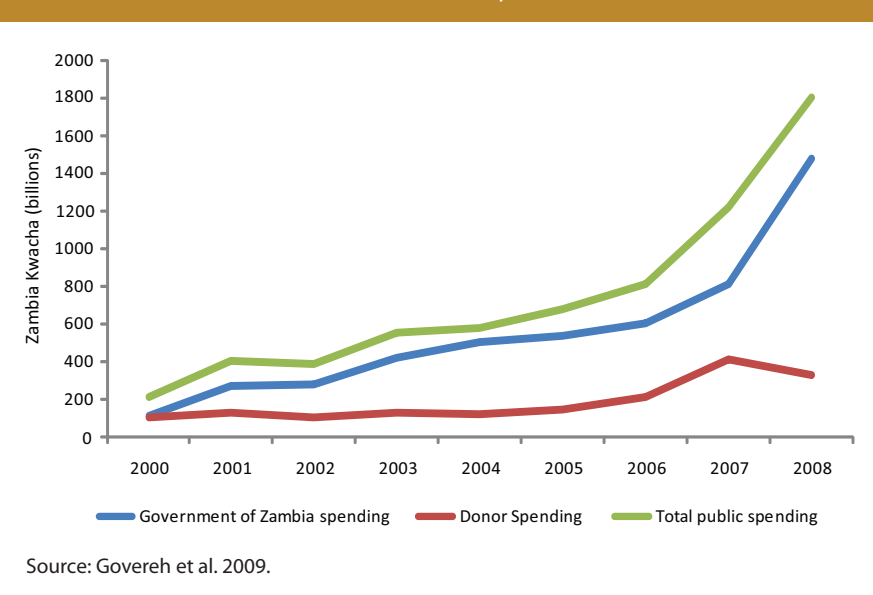
Figure 13 shows the investment gap ratios of both Nigeria and Malawi for the past several years compared to the PEFA standard ratio. From 2000 to 2004/5, both countries had poor budget execution within a range of 48 to 85 percent. This meant that up to 52 percent of budgeted resources for agriculture were not being spent. In contrast, in recent years both countries have overspent the budgeted amount.

<sup>7</sup> See for example, Thirtle et al. 2003 and Fan et al. 2004.

**FIGURE 11—SOURCE OF AGRICULTURE SPENDING, MALAWI**



**FIGURE 12—SOURCE OF AGRICULTURE SPENDING, ZAMBIA**



In both countries, the gap between budgeted agriculture spending and actual spending has largely been driven by deviations in capital outlays, rather than recurrent spending. An exception is Malawi in recent years, which has witnessed a more stable development budget but has been greatly overspending on the recurrent. The recent overspending in Malawi is largely due to overruns in the costs of the subsidy programs. Recurrent spending consists more of salaries and staff expenses, so once they are set they do not often change yearly, whereas projects can be negotiated and can change frequently, making it hard to budget the line items from year to year (which leads to budget under-execution). Another reason for poor budget execution is that budgets are formed based on the demands of constituencies, while fiscally restrained finance ministries often pare down implementation.

| *Development assistance to agriculture*

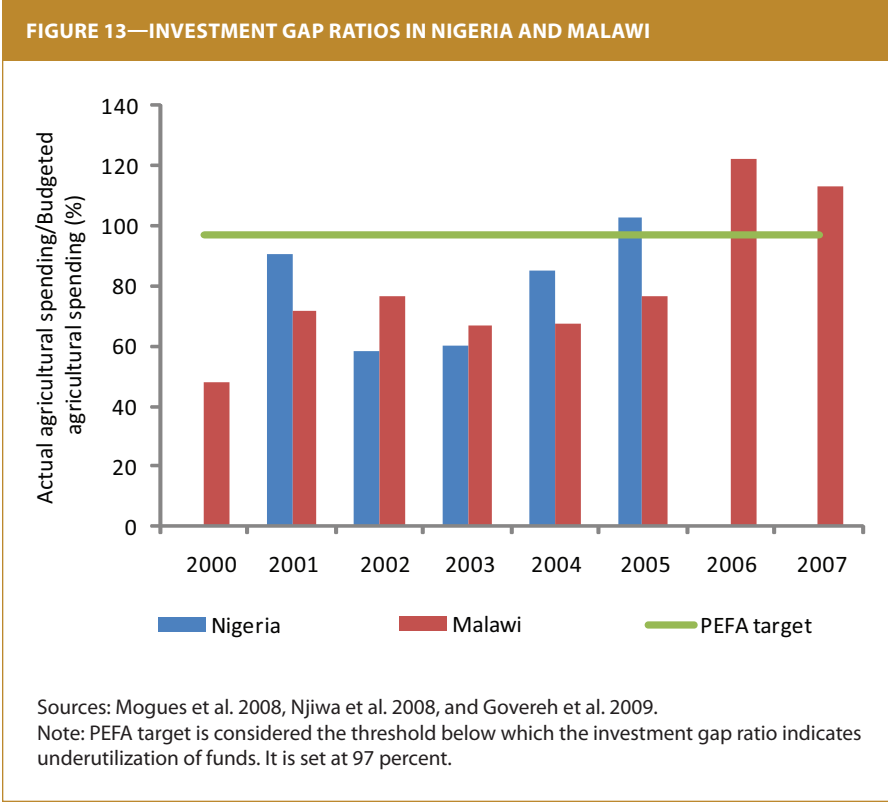
Development assistance to all developing countries has grown at an annual average rate of 5 percent from 1980 to 2006. Total aid in these developing countries grew from US\$7 billion in 1980 to US\$27 billion in 2006.

In contrast to the increase in total aid to developing countries since 1980, aid to agriculture fell dramatically in the 1990s. According to the FAO, from 1990 to 1999 total lending to agriculture worldwide from external sources fell by 50 percent (FAO 2008b). In Africa as a whole, donor spending for agriculture as a share of total donor spending has seen a consistent decline from an average of 15 percent between 1980 and 1995 to 12 percent between 2000 and 2002. In 2006, the ratio had declined to about 4 percent. Total Overseas Development Assistance (ODA) for agriculture in Sub-Saharan Africa (SSA) has hovered at US\$1 billion a year since the 1990s. In comparison, the share of ODA spent on aid for emergencies has doubled and in actual dollars has more than quadrupled during the same period.

All of the SSA countries in **Table 4** spent less than 10 percent of their aid budgets on agriculture. Botswana and Nigeria spent less than 1 percent of all aid received on agriculture. Burkina Faso spent 8 percent of its total aid on agriculture. The remaining countries spent between 3 and 6 percent of their aid budgets on agriculture. Thus, agriculture has not been prominent in the agenda of many donors, perhaps because of pressure to broaden their aid agendas rather than any conscious decision.

In addition, ODA for agriculture in some countries (such as Mozambique and Tanzania) greatly overshadows the amount spent by the government itself. These contributions risk "crowding out" domestic agriculture investments by reducing the government's political incentives to increase their shares.

Africa is now facing the same type of long-term food deficit problem that India faced in the early 1960s. As a result of inadequate investment in the African agriculture sector, the continent's overall agricultural productivity has fallen since the mid-1980s, leaving it vulnerable to frequent food crises and dependent on emergency food aid and food imports. In response to these food crises, governments and donors have in the past devoted more resources to emergency

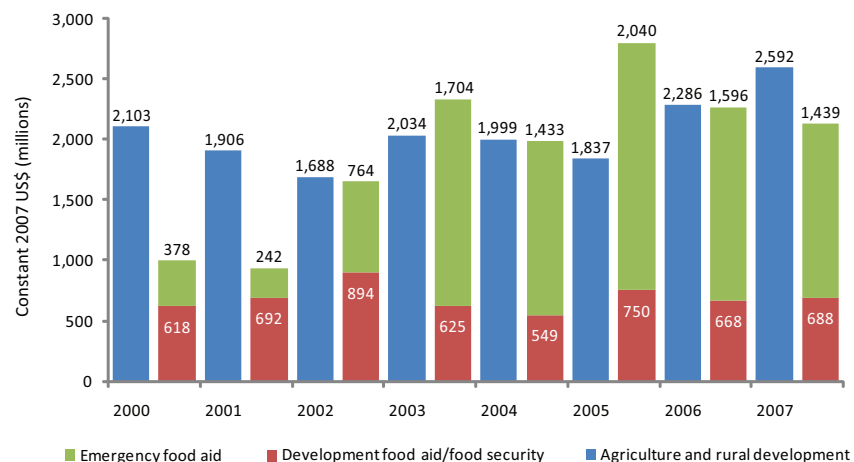


**TABLE 4—AGRICULTURAL AID TO AFRICA**

	Aid to agriculture (2007 constant dollars, million)							Agricultural aid as a percent of total aid						
	2002	2003	2004	2005	2006	2007	2008	2002	2003	2004	2005	2006	2007	2008
Botswana	0.3	0.4	0.5	0.6	0.6	8.0	..	0.5	0.6	1.0	0.8	0.8	9.0	-
Burkina Faso	22.0	35.4	33.7	35.6	44.5	58.5	7.7	3.2	4.5	4.6	4.4	5.2	2.6	0.8
Cameroon	13.1	13.5	12.6	13.7	23.1	52.7	..	1.4	1.1	0.9	1.2	3.1	1.5	-
Cote d'Ivoire	13.3	5.0	3.3	2.4	15.3	5.3	..	2.5	0.2	0.6	0.6	5.8	1.4	-
Egypt	25.1	31.1	23.0	56.2	71.5	45.4	..	1.1	1.5	1.3	2.6	4.1	2.9	-
Ethiopia	29.4	41.1	21.0	31.3	38.1	46.0	0.2	1.7	2.1	1.0	1.4	1.7	0.7	0.0
Ghana	14.4	17.9	25.5	41.1	38.7	51.1	0.0	1.2	1.5	1.9	1.6	2.1	0.8	0.0
Kenya	21.8	22.3	23.6	19.1	43.9	52.2	7.1	2.4	2.9	2.7	2.1	4.4	4.5	0.5
Malawi	10.1	21.0	14.9	38.1	26.9	47.2	..	1.4	3.5	2.1	5.7	3.6	1.5	-
Mali	31.2	23.0	41.9	40.5	31.6	63.3	6.9	4.6	2.8	5.2	4.7	3.5	2.2	0.6
Morocco	12.7	12.4	13.0	16.2	21.6	26.6	..	1.1	1.2	1.3	1.4	1.7	1.8	-
Nigeria	3.5	5.5	3.5	7.9	6.7	7.4	..	1.1	1.2	0.8	1.1	0.1	0.1	-
Togo	2.3	3.3	2.3	2.2	1.2	1.3	0.3	1.7	3.1	2.5	2.2	1.1	1.2	0.2
Tunisia	16.0	16.6	14.2	13.0	15.0	11.4	..	1.8	2.5	2.3	2.2	2.5	1.6	-
Uganda	11.7	18.7	33.4	38.1	56.6	57.0	7.2	0.8	1.5	2.4	2.4	3.9	1.1	0.4
Zambia	21.2	16.3	13.7	29.9	37.0	39.8	3.1	1.7	1.1	1.0	1.8	1.7	0.8	0.3

Source: OECD statistical portal accessed on November 5, 2009. Amounts based on gross disbursements.

**FIGURE 14—ODA COMMITMENTS TO AFRICAN AGRICULTURE BY TYPE, 2000-2007**



Source: OECD CRS 2009.

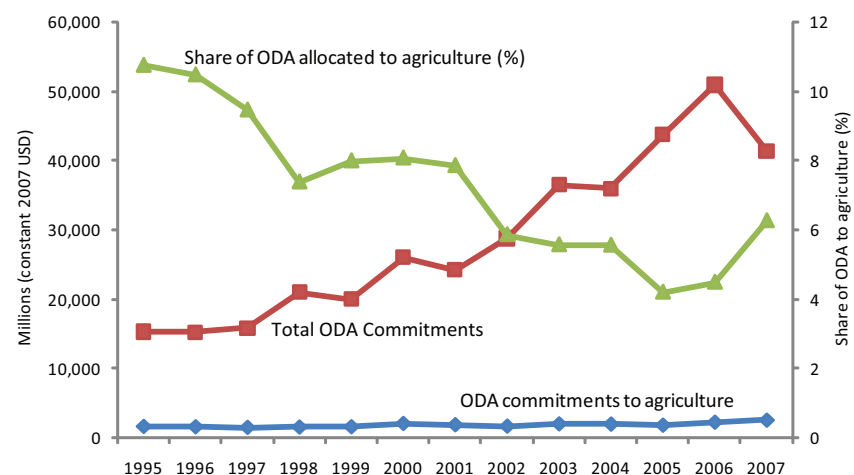
aid rather than to long-term agricultural development, which further undermines the ability of countries to generate economic and agricultural growth. Although investment to agriculture has increased in recent years, a large and increasing share still is devoted to short-term food aid interventions (**Figure 14 and Figure 15**). Consequently, poverty and hunger persist and threaten the likelihood that some of the countries will reach the MDGs.

## | Conclusion

Many African governments and their development partners are increasing the quantity of agricultural spending in response to the 2003 Maputo Declaration. Donor spending has increased slightly, but not at the same rate as government spending. While this is good for national independence, it calls for development partners to step up to their commitments and spend “10 for 10”. Without question, African governments and donors should increase their investments in the prime movers (human capital, technology, and institutional innovations) to increase farm production and accelerate agricultural growth.

Simply increasing agricultural spending is only part of the picture. While rural poverty reduction cannot be achieved without agricultural growth, neither is it likely to happen by simply investing in the agricultural sector alone. Setting the right priorities for public spending is equally important. Investment strategies must be unique to the specific needs of each country. Moreover, the quality of agricultural spending is also key. As the chapter has shown, while the investment gap ratio has been declining, more attention is still needed to improve program effectiveness. Based on a number of country case studies, government expenditures have focused largely on inputs—fertilizer, seeds—at the cost of investments that will have longer-term impacts on productivity, such as agriculture R&D, irrigation, and rural infrastructure. And, even more importantly, many countries need to improve the execution of their budgets, to avoid any negative impacts on policy planning, design, and implementation, and attain the development goals enshrined in the country CAADP compacts.

**FIGURE 15—ODA COMMITMENTS TO SUB-SAHARAN AFRICA: LEVEL AND SHARE TO AGRICULTURE**



Source: OECD CRS 2009. Based on ODA commitments in 2007.

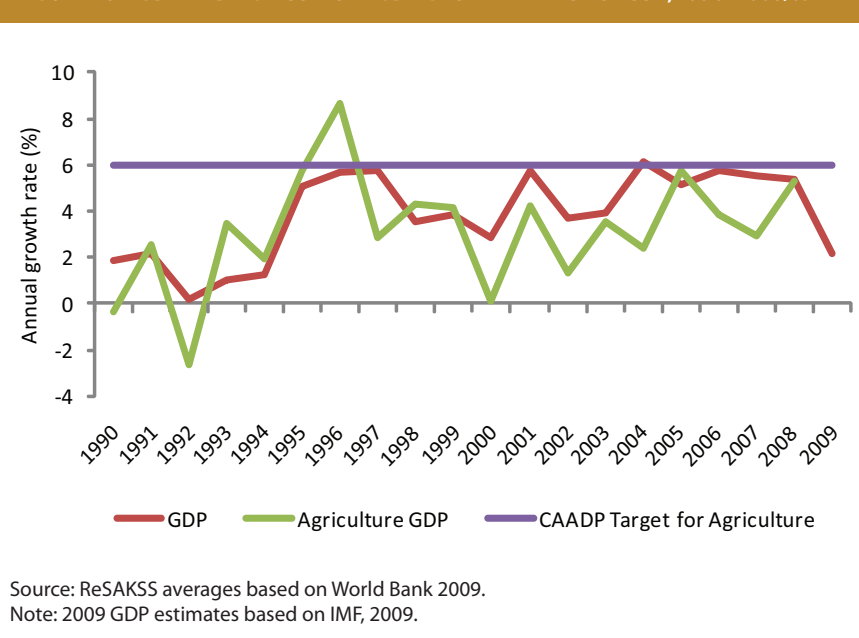
### 3. Evaluation of African agricultural sector performance

With increased commitments and resources flowing to the agricultural sector, it is expected that performance in the sector will improve. This chapter will show that in fact, agriculture’s performance has been positive and improving in recent years on the continent, although direct attribution to increased investment as the main cause is still tenuous. Yet it is still difficult to estimate the full impact of the recent food price crisis and onslaught of the financial crisis on agricultural performance. Therefore, more resources and detailed attention to the sector are still needed to overcome the potential setbacks and to achieve the CAADP targets and MDGs.

#### *Economic and agricultural performance*

Over the past two decades, annual growth rates of both agricultural and overall gross domestic product (GDP) increased at the continental level (**Figure 16**). Although agricultural performance varies within and across African countries, recent trends indicate an increase in agricultural GDP growth at the continental and regional levels. Sub-Saharan Africa’s agriculture GDP growth rate increased from an annual average of approximately 3 percent in the 1990s and 2000s to 5.3 percent in 2008 (**Table 5**). A similar trend can be observed at the regional level. All regions saw an increase in average agricultural growth rates from approximately 3 percent in the 1990s to 2008, although Southern Africa has seen the most dramatic recent

**FIGURE 16—GDP AND AGRICULTURE GDP GROWTH RATES FOR SSA, 1990–2008/09**



**TABLE 5—AGRICULTURAL PERFORMANCE, 1990–2008**

		Annual Agricultural GDP Growth (%)				
		1990-1999	2000-2005	2006	2007	2008
East Africa	Burundi	-0.4	-2.5	10.9	2.5	3.4
	Comoros	2.5	4.6	-10.3	3.0	4.5
	Congo, Dem. Rep.	2.1	-1.7	2.5	3.0	3.0
	Eritrea	10.1	5.4	8.8	1.3	-2.0
	Ethiopia	2.8	5.1	10.9	9.4	7.7
	Kenya	2.1	3.0	4.4	2.3	3.0
	Madagascar	1.9	1.8	2.1	2.2	2.8
	Rwanda	3.3	5.1	11.0	-3.0	11.1
	Sudan	4.8	1.8	4.4	3.1	4.0
	Tanzania	3.5	4.8	3.8	4.0	10.6
Uganda	3.7	2.9	0.9	-0.3	9.1	
Southern Africa	Angola	-1.3	13.8	9.8	21.6	27.3
	Botswana	-0.7	-1.1	-0.4	1.8	2.0
	Lesotho	1.5	-4.7	14.9	-8.6	-0.6
	Malawi	9.7	-1.5	11.9	5.9	5.2
	Mozambique	4.6	4.3	10.9	6.6	7.0
	Namibia	4.8	3.7	-0.7	-1.4	41.0
	South Africa	0.8	2.1	-7.9	0.9	1.0
	Swaziland	0.5	1.2	-2.2	2.7	2.8
	Zambia	5.1	1.0	2.2	7.2	3.3
	Zimbabwe	4.9	-6.2	-2.0	-6.3	-13.5
West Africa	Benin	5.3	4.9	5.6	4.2	3.8
	Burkina Faso	6.0	6.0	2.7	-4.3	4.6
	Cameroon	4.3	3.8	3.0	3.9	4.2
	Cape Verde	1.2	0.9	3.7	5.2	4.2
	Central African Republic	3.1	1.5	3.1	3.3	2.6
	Chad	5.6	3.3	3.2	0.1	0.1
	Congo, Rep.	0.3	6.1	8.2	-1.7	5.0
	Cote d'Ivoire	3.0	2.7	1.3	1.8	3.1
	Equatorial Guinea	6.1	2.1	3.7	10.0	-1.3
	Gabon	1.7	1.6	2.1	5.3	4.8
	Gambia, The	3.3	4.7	1.0	2.0	4.6
	Ghana	2.9	3.3	1.2	0.2	5.4
	Guinea	4.5	3.6	4.2	5.0	3.9
	Guinea-Bissau	3.9	3.9	5.5	7.0	3.2
	Mali	2.9	3.0	5.7	2.4	10.0
	Mauritania	0.8	-2.8	11.7	1.9	3.8
	Niger	3.3	3.2	8.1	4.0	8.6
Nigeria	3.6	13.7	7.4	7.4	-0.3	
Senegal	1.8	2.5	-7.5	-5.3	12.7	
Sierra Leone	-3.4	8.3	4.3	5.7	5.9	
Togo	3.8	1.6	-3.5	5.8	1.5	
<b>East Africa</b>	3.4	2.3	4.4	3.6	4.8	
<b>Southern Africa</b>	2.9	1.3	3.5	3.0	7.1	
<b>West Africa</b>	3.0	3.7	3.6	3.0	4.3	
<b>SSA</b>	3.1	2.9	3.8	2.9	5.3	

Sources: ReSAKSS calculations based on World Bank 2009; United Nations 2009b.

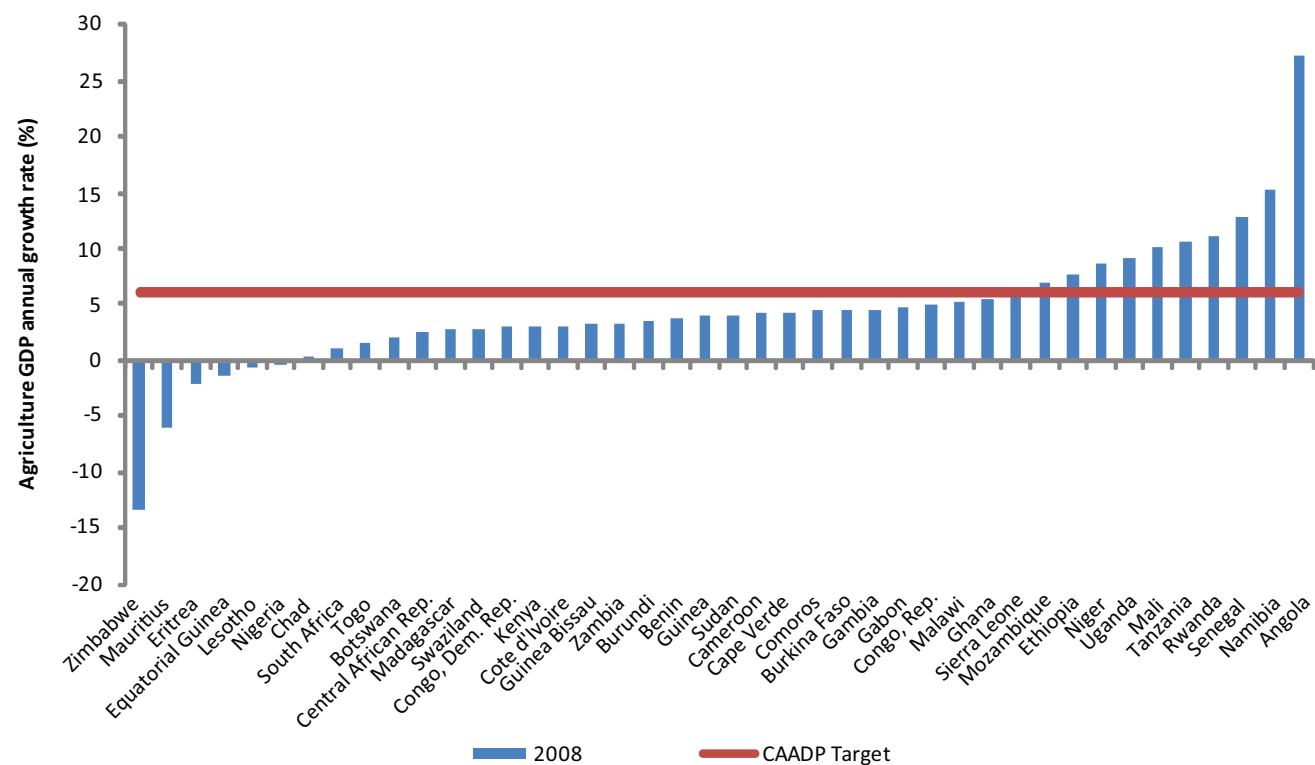
**TABLE 6—ECONOMIC PERFORMANCE, 1990–2009**

		Annual GDP Growth (%)					
		1990-1999	2000-2005	2006	2007	2008	2009
East Africa	Burundi	-1.4	1.7	5.1	3.6	4.5	3.2
	Comoros	1.6	2.5	1.2	0.5	1.0	1.0
	Congo, Dem. Rep.	-5.5	2.5	5.6	6.3	6.2	2.7
	Eritrea	8.1	0.0	-1.0	1.3	2.0	0.3
	Ethiopia	2.7	6.5	10.9	11.1	11.3	7.5
	Kenya	2.2	3.1	6.4	7.0	3.6	2.5
	Madagascar	1.6	3.0	5.0	6.2	6.9	-0.4
	Rwanda	2.1	6.7	7.3	7.9	11.2	5.3
	Sudan	4.4	6.4	11.3	10.2	8.3	4.0
	Tanzania	3.1	6.4	6.7	7.1	7.5	5.0
Uganda	6.9	6.1	10.8	8.6	9.5	7.0	
Southern Africa	Angola	1.0	9.3	18.6	20.3	14.8	0.2
	Botswana	6.1	5.7	3.0	4.2	-1.0	-10.3
	Lesotho	3.9	3.1	8.1	5.1	3.9	-1.0
	Malawi	4.1	1.1	8.2	8.6	9.7	5.9
	Mozambique	5.6	7.4	8.7	7.0	6.5	4.3
	Namibia	4.1	4.8	7.1	4.1	2.7	-0.7
	South Africa	1.4	3.9	5.3	5.1	3.1	-2.2
	Swaziland	3.7	3.6	2.9	3.5	2.5	0.4
	Zambia	0.4	4.6	6.2	6.2	6.0	4.5
	Zimbabwe	2.6	-5.8	..	..	..	3.7
West Africa	Benin	4.5	4.2	3.8	4.6	5.1	3.8
	Burkina Faso	5.1	5.4	5.5	3.6	4.5	3.5
	Cameroon	0.4	3.8	3.2	3.5	3.9	1.6
	Cape Verde	5.2	4.5	10.8	6.9	6.0	3.5
	Central African Republic	1.3	-0.4	4.0	4.2	2.8	2.4
	Chad	2.2	12.6	0.2	0.2	-0.4	1.6
	Congo, Rep.	0.8	4.9	6.2	-1.6	5.6	7.4
	Cote d'Ivoire	2.6	-0.6	0.7	1.7	2.2	3.7
	Equatorial Guinea	20.2	26.1	1.3	21.4	11.3	-5.4
	Gabon	2.5	1.1	1.2	5.6	2.1	-1.0
	Gambia, The	3.1	4.5	6.5	6.3	5.9	3.6
	Ghana	4.3	4.8	6.4	6.1	6.2	4.5
	Guinea	4.3	3.0	2.2	1.5	8.4	0.0
	Guinea-Bissau	2.0	-0.8	3.5	0.6	2.7	1.9
	Mali	3.6	5.9	5.3	2.8	5.0	4.1
	Mauritania	2.6	3.7	11.7	1.9	..	2.3
	Niger	1.9	3.3	5.8	3.3	9.5	1.0
Nigeria	3.1	6.1	6.2	6.4	5.3	2.9	
Senegal	2.7	4.5	2.4	4.7	2.5	1.5	
Sierra Leone	-4.2	12.3	7.3	6.8	5.1	4.0	
Togo	2.6	1.7	3.9	1.9	1.1	2.4	
<b>East Africa</b>	2.2	3.4	7.0	7.2	7.0	3.2	
<b>Southern Africa</b>	2.5	3.8	7.1	7.0	5.7	0.9	
<b>West Africa</b>	3.3	5.3	4.7	4.4	4.7	2.3	
<b>SSA</b>	3.0	4.6	5.7	5.5	5.4	2.2	

 Source: ReSAKSS calculations based on World Bank 2009.  
 Note: GDP growth rates for 2009 are estimates from IMF 2009.



FIGURE 17—2008 AFRICAN AGRICULTURE GDP GROWTH RATES AND THE CAADP 6% TARGET



Source: World Bank 2009; United Nations 2009b.  
 Note: GDP growth rates for 2009 are estimates from IMF World Economic Outlook 2009.

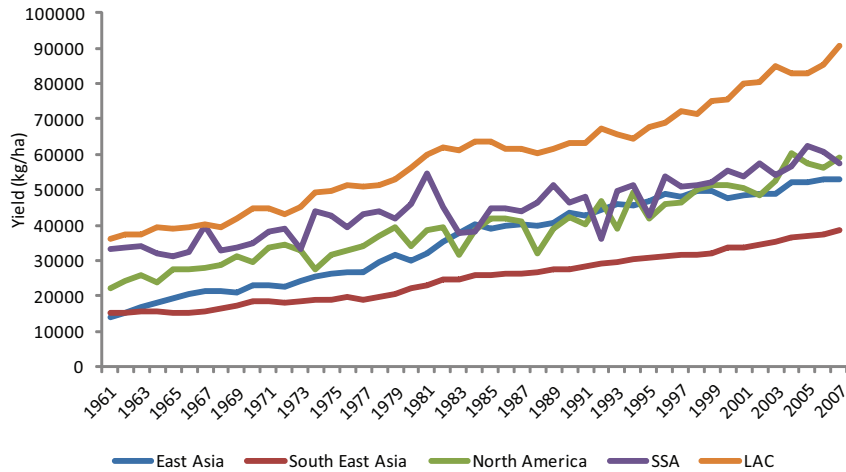
increase with an estimated rate of 7.1 percent. Despite these trends, it is still not possible to know what the impact on agricultural growth rates for 2009 will be from the food crisis of late 2007 and early 2008 and subsequent global recession.

These regional and sub-continental figures mask the diverse agricultural performance that exists across countries in Africa. **Figure 17** shows that in 2008, ten countries met the CAADP 6 percent agricultural growth target: Angola, Ethiopia, Mali, Mozambique, Namibia, Niger, Rwanda, Senegal, Tanzania and Uganda. Nineteen other countries attained moderate agricultural GDP growth rates

of between 3 and 6 percent in 2008. In the same year, eight countries experienced low or negative growth in their agriculture sectors.

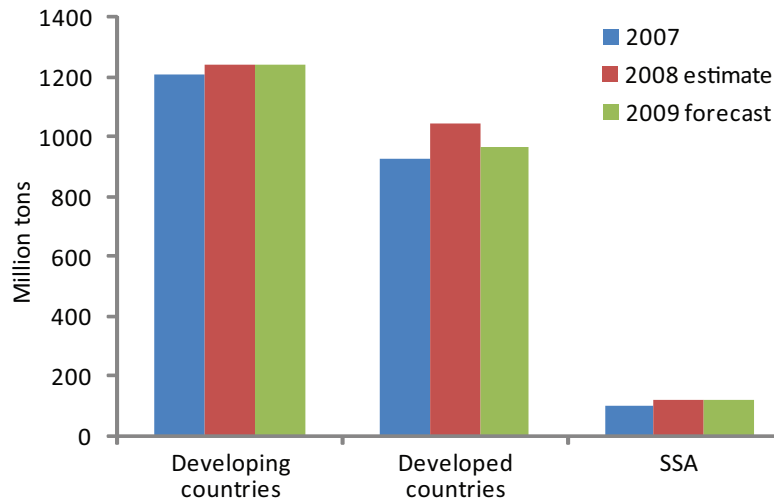
From 2005 to 2008, GDP growth in SSA was generally high at an average rate of 5.4 percent per year. With the exception of 2009, average GDP growth rates have been increasing, from 3.0 percent in the 1990s and 4.6 percent in the first half of the 2000s, to 5.5 percent by 2007 (**Table 6**). However, with the international economic slowdown, growth projections are less optimistic and “low economic growth is likely to have negative second-round effects for investment and productivity, with

FIGURE 18—CEREAL YIELDS OF WORLD REGIONS, 1960-2007



Source: FAO 2009c.

FIGURE 19—CEREAL PRODUCTION IN DEVELOPING AND DEVELOPED COUNTRIES AND SSA, 2007-2009



Source: FAO 2009e.

direct ramifications for food prices and food security” (von Braun 2008b). GDP growth rates declined slightly to 5.4 percent in 2008 and are projected to decline to 2.2 percent in 2009, which would mark the first time GDP has grown that slowly since 1994.

A similar trend is echoed at the regional level. East and Central Africa and Southern Africa both witnessed an increase in their average annual GDP growth rates from the 1990s to the early 2000s, and then from the early 2000s to 2006 and 2007 (Table 6). West Africa also experienced an increase in regional average annual GDP growth from the 1990s to the early 2000s, but this increase did not continue into recent years. All regions are predicted to see a drastic decline in GDP growth in 2009 to levels experienced in the 1990s due to the food and financial crises. Southern Africa is expected to witness the most significant decline to a GDP growth rate of 0.9 percent for 2009, down from 5.7 percent in 2008.

### | *Agricultural production and productivity*

Future growth in African agriculture will largely depend on the continent’s ability to increase agricultural production and productivity. Higher agricultural production on the continent can improve food security and dampen the effects of high international food prices on domestic markets. Due to increasingly limited land resources, however, increasing production is largely dependent on increasing agricultural productivity. Cereal yields in SSA have improved over time, but are still below what is needed to feed a growing population (Figure 18). Using a region-wide multi-market model, a recent study at IFPRI projects that doubling the productivity of food staples in Africa by 2015 has the potential to raise average GDP growth to 5.5 percent per annum, lift over 70 million people out of poverty, and turn Africa from a food-deficit region to a surplus region with 20 to 40 percent lower food prices (Diao, Fan, Headey, Johnson, Nin-Pratt and Yu 2008).

The recent food price crisis is a potential opportunity that could promote a supply response in agriculture. Indeed, as a result of higher food prices (Chapter 2), world

cereal output actually increased by 7 percent between 2007 and 2008 (FAO 2009b). This supply response was concentrated mostly in the developed countries, however, and among developing countries, in Brazil, China, and India (FAO 2009e). Yet even in SSA, FAO projections indicate that cereal production increased by 14 percent from 2007 to 2008 (Figure 19). Within SSA, this increase was concentrated in Southern and West Africa, with minimal supply response occurring in East and Central Africa (Figure 20). However, SSA has such a low level of output compared to other world regions, this increase still does not put it at the same production level as the world's major cereal producers.

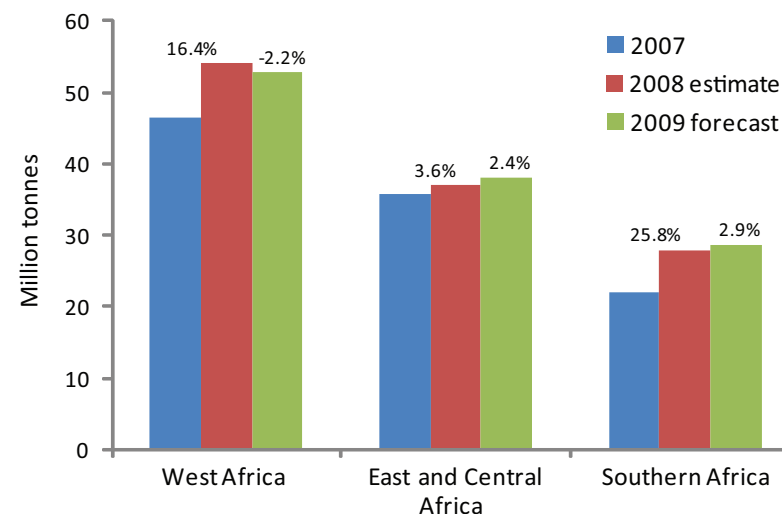
Although global cereal output is projected to decline for 2009 as a result of falling world food prices, SSA cereal output is projected to increase by 0.4 percent (FAO 2009e). This may be due in part to a lag of high food price transmission from the international markets to the domestic markets in many African countries (see Chapter 5). Cereal production is projected to continue increasing, albeit at a slower rate, in Southern and East and Central Africa in 2009. In West Africa, production is predicted to decline in 2009 by approximately 2 percent.

## | *Agricultural trade*

Increasing agricultural production and productivity will not instigate growth and poverty reduction if farmers do not also have access to domestic, regional, and international markets for trade. Access to markets is still severely limited in SSA due to high transportation and market transaction costs.

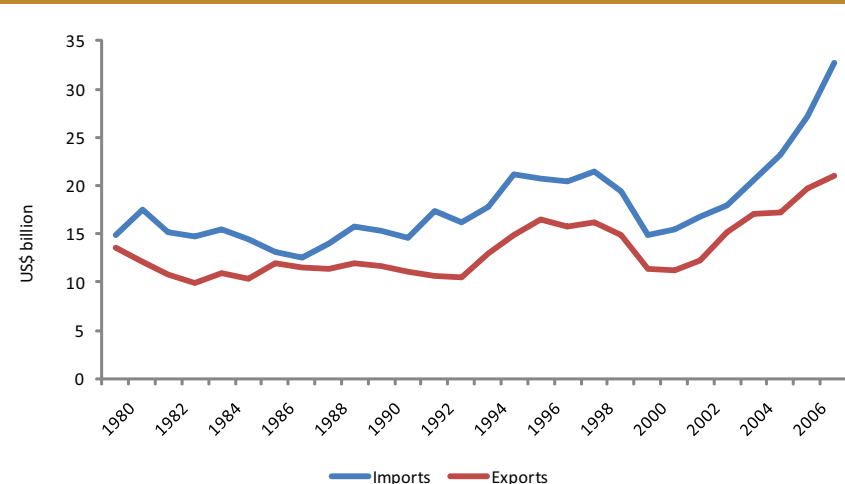
SSA has been a net food importer since the 1980s (Figure 21). In 2007, the value of the region's trade deficit started to increase as a result of higher food prices.

FIGURE 20—CEREAL PRODUCTION IN AFRICA REGIONS, 2007–2009



Source: FAO 2009b.

FIGURE 21—AGRICULTURAL IMPORTS AND EXPORTS IN SSA, 1980–2007



Source: FAO 2009c.

## | *Conclusion*

Starting in the early 1990s, the continent has witnessed rising agricultural and overall growth rates. However, despite recent increases in agriculture GDP growth rates in the different regions of Africa and the high diversity of Africa's agro-ecological conditions for a wide range of agricultural production, only one of the three regions covered in this report (Southern Africa) has achieved the 6 percent agricultural growth target set by CAADP.

Generating higher agricultural growth, particularly in the smallholder sector, would increase rural incomes and food supplies and stimulate broad-based economic growth through linkages with the non-agricultural sector. Agricultural growth, accompanied by growth in non-agriculture, can have a high impact on poverty reduction. There is a critical need to accelerate agricultural productivity if African agriculture is going to continue performing the way it has in recent years.

With respect to agricultural trade, SSA has been a net food importer for decades. The widening food supply-demand gap and rising food import bills have caused serious setbacks, especially in domestic food production, foreign exchange earnings, and in labor force required in agriculture. It has also eroded the competitiveness of domestically produced agricultural goods in comparison with low-priced imported goods, leading to reduction in agricultural activities in the continent.

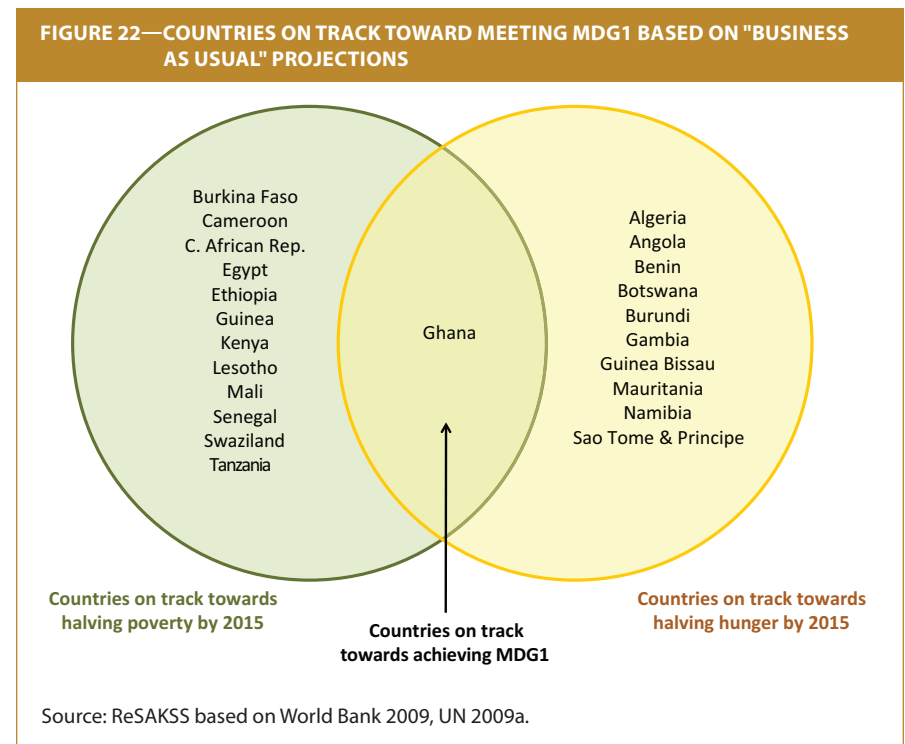
Nevertheless, recent years have witnessed dramatic attention on African agriculture because of its immediate and long-term implications for Africa's development. Since the majority of Africans are living in rural areas and engage in subsistence agriculture, which will long remain the main source of their livelihoods, it is pertinent that a renewed interest in agriculture should be the main vehicle of reducing poverty in the continent. Therefore, as many African governments strengthen the focus and implementation of the CAADP strategy through their current CAADP compacts, the strategy for connecting agriculture to poverty reduction needs to be better articulated and operationalized.

## 4. Progress toward meeting MDG1 in Africa

The continent as a whole is not on track toward achieving the first MDG of halving hunger and poverty by 2015. According to ReSAKSS estimates, which project current hunger and poverty rates based on a “business as usual” scenario, the current child malnutrition rate stands at 29.3 percent for Sub-Saharan Africa (Table 7).<sup>8</sup> This rate is an increase from the last measured rate of 27.0 percent in 2008, and is likely to be an overly optimistic estimate since it does not take into account the crises of the past year. According to the United Nations (UN), the decline in hunger in Sub-Saharan Africa since 1990 reversed in 2008, largely due to the increase in food prices (UN 2009a).

Likewise, ReSAKSS estimates of poverty indicate that the continent as a whole is not on track toward halving poverty by 2015 (Table 8). The continent’s estimated poverty rate for 2009 stands at 38.6 percent, which is 9 percentage points above where the continent should be in 2009 to be on track toward meeting the 2015 target. Since this figure is based on a “business as usual” scenario, it does not allow for the effects of sudden shocks, such as the global economic crisis, which has likely increased poverty drastically. According to the UN, the number of people living in extreme poverty worldwide in 2009 is expected to be 55 million to 90 million more than anticipated before the current economic crisis, a large share of whom—approximately 16 million— are in SSA (UN 2009a).

This SSA continental picture masks the varied performance by regions and countries toward meeting the MDG1 targets. Figure 22 indicates that several countries are on track to achieve either the hunger or the poverty target of MDG1,



<sup>8</sup> ReSAKSS estimates for poverty rates are calculated using data from World Bank 2009 and the United Nations 2009a. ReSAKSS calculates the average annual rate of change between years for which data is available and uses this rate to project what the current rate would be assuming this rate of change stayed the same. This projection is referred to as a “business as usual” scenario.

**TABLE 7—CHILD MALNUTRITION RATES (WEIGHT FOR AGE) AND 2009 MDG1 BENCHMARKS**

	Year	Most recent malnutrition rates	ReSAKSS estimated rate for 2009	2009 Benchmark	On track to halve hunger by 2015?
Algeria	2006	3.7	.5	5.8	yes
Angola	2001	30.5	20.1	27.8	yes
Benin	2006	22.6	202.6	20.6	yes
Botswana	2000	12.5	2.2	14.9	yes
Burkina Faso	2006	37.4	38.5	19.6	no
Burundi	2005	39.2	34.5	35.3	yes
Central African Republic	2006	28.5	38.2	16.6	no
Cameroon	2004	19.3	20.4	8.2	no
Chad	2004	36.7	35.2	25.4	no
Comoros	2004	24.9	27.4	11.2	no
Congo, D.R.	2007	31.4	30.9	22.1	no
Congo, R.	2005	14.4	14.7	8.2	no
Cote d'Ivoire	2006	20.2	19.3	15.5	no
Djibouti	2006	28.9	30.0	14.2	no
Egypt	2008	7.5	7.4	6.4	no
Eritrea	2002	39.6	38.5	25.7	no
Ethiopia	2005	38.4	35.6	30.4	no
Gambia, The	2006	20.3	18.5	18.5	yes
Ghana	2008	13.9	13.0	18.7	yes
Guinea	2005	25.8	27.5	12.0	no
Guinea Bissau	2006	19.4	16.0	21.3	yes
Kenya	2003	19.9	18.5	14.3	no
Lesotho	2005	16.6	17.9	9.7	no
Liberia	2007	23.8	23.2	18.2	no
Madagascar	2004	41.9	43.1	24.0	no
Malawi	2006	20.5	19.1	17.5	no
Mali	2006	31.7	29.2	27.9	no
Mauritania	2007	29.8	27.6	30.2	yes
Morocco	2004	10.2	10.7	5.5	no
Mozambique	2003	23.7	21.2	18.0	no
Namibia	2007	17.5	16.3	17.0	yes
Niger	2006	44.4	44.8	26.3	no
Nigeria	2003	28.7	25.5	22.1	no
Rwanda	2005	22.5	20.4	18.7	no
Sao Tome and Principe	2006	9.2	7.4	11.8	yes
Senegal	2005	17.3	16.0	13.8	no
Sierra Leone	2005	30.4	33.0	12.9	no
Somalia	2006	35.6	41.5	2.7	no
South Africa	2003	11.5	13.3	4.8	no
Sudan	2006	31.0	30.2	21.8	no
Tanzania	2005	21.8	19.6	18.5	no
Togo	2006	26.0	28.1	9.2	no
Uganda	2006	20.4	19.0	17.2	no
Zambia	2007	19.3	18.7	15.3	no
Zimbabwe	2006	14.0	17.0	9.4	no
SSA	2008	27.0	29.3	19.9	no

Source: World Bank 2009, UN 2009a.

Note: Current rates are ReSAKSS forecasts based on "business as usual".

**TABLE 8—POVERTY RATES BY COUNTRY AND 2009 MDG1 BENCHMARKS**

	Year	Most recent poverty rates	ReSAKSS estimated rate for 2009	2009 MDG Benchmark	On track to halve hunger by 2015?
Algeria			..	4.2	..
Angola	2000	54.3	..	..	..
Benin	2003	47.3	35.3	14.5	no
Botswana			..	19.3	..
Burkina Faso	2003	56.5	46.7	48.2	yes
Burundi	2006	81.3	80.7	52.5	no
Cameroon	2001	32.8	2.9	45.8	yes
Cape Verde	2001	20.6	..	..	..
Central African Republic	2003	62.4	50.2	55.1	yes
Chad	2003	61.9	..	..	yes
Comoros	2004	46.1	..	..	..
Congo, Dem. Rep.	2006	59.2	..	..	..
Congo, Rep.	2005	54.1	..	..	..
Cote d'Ivoire	1998	24.1	27.6	9.9	no
Djibouti	2002	18.8	35.1	3.0	no
Egypt, Arab Rep.	2000	2.0	1.8	1.8	yes
Ethiopia	2005	39.0	30.4	44.2	yes
Gabon	2005	4.8	..	..	..
Gambia, The*	2003	61.3	59.8	40.0	no
Ghana	2006	30.0	25.5	33.6	yes
Guinea	2003	70.1	58.9	58.6	yes
Guinea-Bissau	2002	48.8	53.6	25.2	no
Kenya	1997	19.6	13.9	25.6	yes
Lesotho	2003	43.4	35.6	37.4	yes
Liberia	2007	84.0	..	..	..
Madagascar	2001	76.3	66.2	45.7	no
Malawi	2004	73.9	66.2	59.1	no
Mali	2006	51.4	42.7	60.6	yes
Mauritania	2000	21.2	38.0	32.3	no
Morocco	2001	6.2	2.5	1.5	no
Mozambique	2003	74.7	68.1	55.2	no
Niger	2005	65.9	63.8	45.8	no
Nigeria	2004	64.4	93.7	27.9	no
Rwanda*	2000	60.3	72.0	29.3	no
Senegal	2001	44.2	25.3	27.2	yes
Sierra Leone	2003	53.4	49.1	38.9	no
South Africa	2001	10.7	28.6	14.6	no
Swaziland	2001	62.8	41.7	56.9	yes
Tanzania*	2001	35.7	33.4	42.5	yes
Togo	2006	38.7	..	..	..
Tunisia	2000	2.6	8.2	3.7	no
Uganda	1999	60.5	45.8	45.2	no
Zambia	1996	62.1	64.9	38.9	no
Zimbabwe*	1996	34.9	58.6	14.9	no
SSA	2004	41.1	38.6	29.0	no

Source: World Bank 2009.

Note: 2009 poverty rates are ReSAKSS projections based on "business as usual" scenarios. 2009 benchmark rates are the rate the country would have to be at in 2009 in order to be on track to halving their poverty rate by 2015. Poverty rates refer to the international "\$1/day" line (now measured at \$1.25/day) unless otherwise indicated (marked with asterisk). In cases where international poverty rates were unavailable, national poverty rates were used instead.

with thirteen on track to halve poverty by 2015 and eleven on track to meet the hunger goal. However, only one country – Ghana – is on track to halving both components of MDG1.

## | *Increasing agricultural growth for poverty reduction*

ReSAKSS helped to facilitate a number of country studies in Africa which provide evidence in support of the argument that increasing agricultural growth to achieve the CAADP 6 percent agricultural growth target can have significant beneficial effects on poverty, food security, and overall economic growth, even for countries already on track to meet the first MDG of halving poverty by 2015.

**Table 9** briefly displays the results of the ReSAKSS country studies. Most countries will need to increase agricultural growth beyond 6 percent in order to halve poverty by 2015. The annual growth rate of agricultural expenditures required to merely achieve a 6 percent annual agricultural growth rate is quite significant. Therefore, most of these countries will need to dramatically increase their investment allocations to agriculture if they plan to achieve the CAADP growth rate or MDG goals. The studies also find that focusing on staple crops, especially cereals, and some export crops, can have a much higher effect on both growth and poverty reduction.

### ▷ MALAWI, RWANDA, AND ZAMBIA

Three countries in the Common Market for Eastern and Southern Africa (COMESA) region —Malawi, Rwanda and Zambia—serve as good examples of the significant benefits that achieving the CAADP target agricultural growth rate can bring even when these do not translate into poverty reduction in line with MDG1.

For example, achieving the 6 percent target will substantially reduce the number of people living below the poverty line by 2015. In Zambia, national poverty would fall from 68 to 52 percent by 2015, while in Malawi it would fall from 47 to 35 percent. Even more impressive poverty reduction would occur in

**TABLE 9—RESULTS OF CAADP AND MDG SCENARIOS**

Country	On track to halve poverty by 2015?	Will CAADP 6% Ag growth put country on track to halve poverty by 2015?	Annual agricultural growth rate required to halve poverty by 2015	Annual growth rate of public agricultural spending to achieve CAADP 6% agriculture growth	
				Optimistic estimate	Conservative estimate
Rwanda	No	No	9.0%	15.2%	30.3%
Mozambique	No	Yes	6.0%		
Malawi	No	No	6.9%	19.3%	26.3%
Zambia	No	No	9.2%	7.2%	26.5%
Uganda	Yes	N/A but will lead to higher poverty reduction and reverse trend of increasing absolute number of people in poverty.	Current average is 2.7%	25.3%	30.0%
Ghana	Yes	N/A but will put Ghana on track to middle-income country status.	Current average is 4.2%		

Sources: Benin, Thurlow, Diao, Kalinda and Kalinda 2008; Benin, Thurlow, Diao, Kebba and Owfondo 2008; Benin, Thurlow, Diao, McCool and Simtowe 2008; Breisinger et al. 2008; Diao, Fan, Kanyarukiga and Yu 2008.

Rwanda—from 59 percent to 42 percent in 2015. This is feasible if the countries realize reasonably ambitious improvements in crop yields and subsector growth.

This is true even though all three countries will fall short of achieving the MDG1 target of halving poverty by 2015 and will actually witness an increase in the absolute number of poor people. In all three cases, the 6 percent agricultural growth target is also insufficient to elicit the scale of poverty reduction necessary to meet MDG1. To do so, the sector would need to grow by approximately 9 percent per year in Rwanda and Zambia and by 6.9 percent per year in Malawi.

### ▷ MOZAMBIQUE

Like Rwanda, Malawi, and Zambia, Mozambique's current growth path does not put it on track to achieve MDG1. However, achieving the CAADP 6 percent agricultural growth rate target will allow Mozambique to reach the MDG1 goal of halving poverty by 2015. Reaching this target is feasible as Mozambique already has strong agricultural performance and therefore will require less additional growth in crop production. In fact, with the right investments, Mozambique could surpass the CAADP target and reach an average agricultural growth rate of 6.6 percent during 2006–2015. This would increase overall GDP growth from 6.3 to 7.0 percent per year, reduce national poverty to 32.6 percent by 2015, and lift an additional 1 million people above the poverty line by 2015. Under the CAADP scenario, Mozambique would meet MDG1 sometime in 2014.

### ▷ GHANA AND UGANDA

Ghana is already on track to achieving MDG1, even though it is not currently achieving the CAADP target of 6 percent annual agricultural growth. Achieving an accelerated agricultural growth of 6 percent per year would have a significant impact on poverty reduction in Ghana and Uganda. In Uganda, the poverty rate will be halved sometime before 2015; however, due to an increasing population, there will actually be a larger absolute number of people in poverty. Accelerating agricultural growth would reverse this trend and lift an additional 2.9 million Ugandans above the poverty line. In Ghana, 6 percent agricultural growth would

put the country on track to becoming a middle-income country by 2015 and would also reduce the number of people in poverty. Therefore, even for countries set to meet MDG1, CAADP can further facilitate income growth and poverty reduction.

## *| What impact will the recent food crisis have on poverty and hunger reduction?*

Based on recent performance in the agricultural sector and resource commitments, it is clear that progress has been made. However, has it been enough to enable countries to move closer to the CAADP targets and MDG1, especially in the current international economic context?

The recent food price crisis may have set back earlier progress toward poverty and hunger reduction in SSA. High and volatile food prices threaten the nutrition and food security of the poor because they erode their already limited purchasing power (von Braun 2008a). The proportion of undernourished people in Sub-Saharan Africa increased by 1 percent in 2007 due to the increased food prices. This is a change from the periods of 1995–97 and 2003–05 in which the proportion of undernourished people decreased by 4 percent and only marginally increased, respectively (FAO 2008b). Most farmers in Africa are net buyers of food who, in the face of such high food prices, must shift their spending away from education and healthcare, or even sanitation and heating, toward food, which they must consume at a lower quality and quantity. In other countries, the poor have had to make major shifts in their livelihood strategies. For example, in Mauritania, goat herders have been forced to sell their livestock for money to buy food, resulting in both a livestock glut in the market (and thus unusually low prices) and also an erosion in families' livelihoods, as their main source of sustenance is gone (Faiola 2008).

The financial crisis may have exacerbated this situation for many poor people by shrinking employment and lowering real wages. This further reduces the amount of income available to spend on food, resulting in worsening malnutrition. At the same time, funding for social protection and food aid programs, which protect many of the most vulnerable from slipping into starvation, are limited due

















