



Republic of Malawi

Malawi Agricultural Sector Wide Approach

A prioritised and harmonised Agricultural Development Agenda: 2011-2015

Ministry of Agriculture and Food Security

P.O Box 30134, Lilongwe 3,

MALAWI

Tel: +265 (0)1 789 033

Fax: +265 (0) 1 789 218

www.moafsmw.org

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FOREWORD

The Government of Malawi agreed with its development partners to formulate the ASWAp aimed at increasing agricultural productivity, contributing to 6 percent annual growth of the agricultural sector, improving food security, diversifying food production to improve nutrition at household level, and increasing agricultural incomes of the rural people. ASWAp is, therefore, a priority investment programme in the agricultural sector for the period 2011-2015 and is based on the priority agricultural elements of the Malawi Growth and Development Strategy. It is also consistent with the Comprehensive African Agricultural Development Programme (CAADP) and the Development Assistance Strategy.

The ASWAp is a single comprehensive programme and budget framework that has a formalized process for better donor coordination and harmonization of investment and alignment of funding arrangements between Government of Malawi and donors in the agricultural sector. It promotes increased use of local procedures for programme design, implementation, financial management, planning and monitoring and evaluation.

Government will spearhead the implementation process, but stakeholders in the sector will have to compliment Government's efforts by aligning and harmonizing their programmes and activities to bring these into line with the priorities set out in the ASWAp. The alignment and harmonization process will be hard but I am confident that the commitment shown by various stakeholders during the development of the strategy will assist in ensuring its effective implementation. Furthermore, despite many challenges that may affect the implementation of the ASWAp, there is need for all individuals and institutions in the sector to play their roles to ensure meaningful engagement in farming as a business.

Lastly, I would like to thank His Excellency the State President, Ngwazi Prof. Bingu wa Mutharika for his vision, direction and commitment in transforming the agricultural sector in the country.

Professor Peter Mwanza, M.P.
Minister of Agriculture, Irrigation and Water Development

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ACRONYMS

ADD	Agricultural Development Division
ADMARC	Agricultural Development and Marketing Corporation
AI	Artificial Insemination
ARV	Antiretroviral Therapy
ASWAp	Agriculture Sector Wide Approach
AU	African Union
AWPB	Annual Work Plans and Budgets
CAADP	Comprehensive African Agriculture Development Programme
CGE model	Computable General Equilibrium model
CoC	Code of Conduct
CTC	Community Therapeutic Centers
DAS	Development Assistance Strategy
DEC	District Executive Committee
DFID	Department for International Development
EU	European Union
FAO	Food and Agricultural Organization
FISP	Farm Input Subsidy Program
GBI	Green Belt Initiative
GDP	Growth Domestic Product
GoM	Government of Malawi
HIV/AIDS	Human Immune Virus/Acquired Immuno-Deficiency Syndrome
IEC	Information, Education and Communication
IFMIS	Integrated Financial Management System
M&E	Monitoring and Evaluation
MASIP	Malawi Agriculture Sector Investment Programme
MDG	Millennium Development Goals
MDPC	Ministry of Development Planning and Cooperation
MGDS	Malawi Growth and Development Strategy
MoAFS	Ministry of Agriculture and Food Security
MoF	Ministry of Finance
MoIT	Ministry of Industry and Trade
MoIWD	Ministry of Irrigation and Water Development
MoLGRD	Ministry of Local Government and Rural Development
MoU	Memorandum of Understanding
MPRSP	Malawi Poverty Reduction Strategy Paper
NAC	National AIDS Commission
NEPAD	New Partnership for African Development
NGO	Non-Governmental Organisation
NRU	Nutrition Rehabilitation Units

NSO	National Statistical Office
ODPP	Office of the Directorate of Public Procurement
OPC	Office of the President and Cabinet
PBA	Programme Based Approach
PER	Public Expenditure Review
PIU	Programme Implementation Unit
PLHA	People living with HIV and AIDS
PPPs	Public Private Partnerships
SGR	Strategic Grain Reserve
UNDP	United Nations Development Programme
USAID	United States Agency for International Development

EXECUTIVE SUMMARY

The Agriculture Sector Wide Approach

The Government of Malawi (GoM) and its Development Partners agreed to formulate the Agriculture Sector Wide Approach (ASWAp) as a means for achieving agricultural growth and poverty reduction goals of the Malawi Growth and Development Strategy (MGDS). The MGDS has targeted agriculture as the driver of economic growth and recognizes that food security is a pre-requisite for economic growth and wealth creation. The ASWAp, therefore, offers a strategy for supporting priority activities in the agricultural sector to increase agricultural productivity and make Malawi a hunger free nation, enabling people access nutritious foods and increase the contribution of agro-processing to economic growth.

The ASWAp is unique in that it is a program led by the Malawi Government; envisages a single comprehensive programme and budget framework; has a formalized process for better donor coordination, harmonization of investment and alignment of funding arrangements between GoM and donors; promotes increased use of local procedures for programme design, implementation, financial management, planning and monitoring.

The development of the ASWAp was highly participatory and consultative involving the Central Government Ministries and Local Councils, Civil Society Organizations, Non Governmental Organizations, Development Partners, Cooperating Partners, Private Sector, Academia and the general public.

Priority Investments of ASWAp

The ASWAp identifies three focus areas, two key support services and two cross-cutting issues. The focus areas are: Food Security and Risk Management, Commercial Agriculture, Agro-processing and Market Development and Sustainable Agricultural Land and Water management. The two key support services are Technology Generation and Dissemination, and Institutional Strengthening and Capacity Building while the cross-cutting issues are HIV Prevention and AIDS Impact Mitigation and Gender Equity and Empowerment.

Priority Focus Areas of ASWAp

Food Security and Risk Management Component focuses on increasing maize productivity, reducing post-harvest losses, diversifying food production, managing risks associated with food reserves at national level. Malnutrition will be reduced by agricultural diversification that includes legumes, vegetables, fruits, small stock (Goat meat and milk), pigs, rabbits, chicken and guinea fowl meat and eggs, and fish.

Commercial Agriculture, Agro-Processing and Market Development Component will entail promoting commercial agriculture production involving smallholder farmers, agricultural diversification, agro-processing for import substitution and value addition,

developing the domestic and export markets for inputs and outputs, and finally developing more public private partnerships involving producers, buyers, input dealers, service providers, and policy makers in the value chain.

Sustainable Agriculture Land and Water Management focuses on sustainable land and water utilization. Main focal areas of the component are conservation farming, afforestation, protection of fragile land and catchment areas, and rehabilitation of degraded agricultural land. Activities on water will focus on water use efficiency and expanding the area under irrigation through the Green Belt Initiative (GBI).

Key Support Services of ASWAp

Technology Generation and Dissemination Component will aim at improving research services with a focus on result- and market-oriented research on priority technology needs in the sector. The component will also deal with technical and regulatory services needs of the stakeholders complemented with efficient farmer-led extension and training services.

Institutional Strengthening and Capacity Building Component will focus on strengthening public institutions, building capacity in public management systems and improving resource allocation for effective implementation of agricultural programs.

Cross Cutting Issues in ASWAp

HIV prevention and AIDS impact mitigation issues are mainstreamed in the ASWAp with the aim to minimize morbidity and mortality attrition, enhance resilience and household coping mechanisms and also reduce HIV infection risks and vulnerability.

Gender equity and empowerment issues are mainstreamed in the ASWAp in order to reduce gender disparities and enhance capacity of the youth, women and men to contribute to agricultural development.

Implementation Arrangements

The ASWAp will be implemented by Malawi Government through the Ministry of Agriculture and Food Security in collaboration with various stakeholders in the sector. The coordination of the Strategy will be lead by the ASWAp Secretariat. Annual work plans will be prepared by the MoAFS and the implementing agencies up to District Assembly level according to the approved activities. Monitoring and Evaluation (M&E) will be based on annual joint reviews involving all stakeholders under the ASWAp using agreed targets and indicators of performance. The total budget over a four year period (2011-2015) for the ASWAp is estimated at US\$ **2,191,678,026**. The funds will be sourced from both the Government of Malawi and Development Partners.

CHAPTER ONE

INTRODUCTION

1.1 OVERVIEW

The ASWAp is a priority investment programme in the agricultural sector for the period 2011-15 and is based on the priority agricultural elements of the Malawi Growth and Development Strategy (MGDS). It represents a consensus on how Malawi can accelerate agricultural growth and development. The ASWAp is designed to serve as a single comprehensive programme and budget framework that has a formalized process for better donor coordination and harmonization of investment and alignment of funding arrangements between Government of Malawi and donors in the agricultural sector. The ASWAp identifies key constraints of the agricultural sector and required investments within the context of national and regional strategies, policies and targets set for agricultural development and food security.

The ASWAp identifies three focus areas, two key support services and two cross-cutting issues. The focus areas are: Food Security and Risk Management, Commercial Agriculture, Agro-processing and Market Development and Sustainable Agricultural Land and Water management. The two key support services are Technology Generation and Dissemination, and Institutional Strengthening and Capacity Building. It recognizes issues of HIV Prevention and AIDS Impact Mitigation and Gender Equity and Empowerment as cross-cutting issues.

The preparation of the programme was based on key lessons learned from neighbouring countries. These lessons include: (i) sector analysis and review of the basic reference documents such as policy framework and implementation strategies for the agricultural sector, using working groups related to key sector pillars; (ii) definition of the ASWAp priority investment framework including objectives, components, results/outcomes/impacts and how these will be implemented; and (iii) defining new programmes needed to achieve the result framework of the ASWAp while taking into account on-going programmes and projects.

1.2 FEATURES OF THE ASWAP

The design and implementation arrangements for the ASWAp have the following features:

- A priority agricultural investment programme under the Ministry of Agriculture and Food Security's leadership.
- The programme is results-oriented and focused on contributing to a minimum of 6 per cent national annual economic growth, sustainable food security and sustainable natural resources management.
- Gradual harmonization and alignment of Government and donor financial support.

- A streamlined programme which will support capacity building initiatives and strengthening of institutions for effective delivery of services.
- Strong partnership arrangements between government and both traditional and new development partners¹, including farmer organizations, civil society and the private sector.
- Increased influence and involvement of beneficiaries.
- Alignment with forthcoming changes in decentralization, strengthened public private partnerships and strengthened coordination between sector line Ministries.
- Sustained and monitored mainstreaming HIV/AIDS and Gender issues.
- Strong linkage to national, regional and international policy frameworks namely MGDS, CAADP and MDGs.
- Building on successes of the past

1.3 MAIN ASSUMPTIONS OF THE ASWAP

The ASWAP is premised on the following assumptions:

- Adequate commitment to the macro-economic reform programme
- Continued political stability in the country
- Minimal or no climatic risks such as drought or floods
- Policy consistency in course of implementing the ASWAp
- Improvement in the harmonization of procedures (financial, procurement and policies etc) between Government and donors
- Adequate resources and capacity to implement the ASWAp activities
- Commitment to institutional reforms and speedy recruitment of staff to fill vacant positions in the Ministries
- Improved working conditions in the Civil Service particularly the agriculture sector to retain staff that will be trained under the program

1.4 GUIDING POLICY FRAMEWORKS

The ASWAp has been derived from medium term policy goal of the country prescribed in the MGDS II. The MGDS II and the National Agricultural Policy Framework provide the national policy context, while the Comprehensive African Agricultural Development Programme (CAADP) under the umbrella of the New Partnership for Africa's Development (NEPAD) provides the regional context of achieving sustainable agricultural growth and development when translated into actions at the national level. The Development Assistance Strategy (DAS) provides an international framework on AID harmonisation.

1.4.1 The Malawi Growth and Development Strategy

The MGDS II is the government's overarching medium term strategy (2011–2016) to attain the nation's *Vision 2020*. The main objective of the MGDS II is to continue

¹ For example, the private sector has not conventionally been treated as a development partner. In the ASWAp, a clear development role is envisaged for private firms so as to create functioning and equitable markets for both inputs and outputs.

reducing poverty through sustainable economic growth and infrastructure development. This is expected to transform the country from being a predominantly importing and consuming economy to a predominantly producing and exporting economy. The ASWAp operates with the MGDS II in the areas of agriculture, food security, water development and disaster risk reduction.

The MGDS II represents a policy shift from social consumption to sustainable economic growth and infrastructure development and places emphasis on six thematic areas. These thematic components of the MGDS II are Sustainable Economic Growth, Social Development, Social Support and Disaster Risk Management, Infrastructure Development, Improved Governance and Cross-Cutting Issues.

Furthermore, MGDS II identifies nine key priority areas of a) Agriculture and Food Security, b) Energy, Industrial Development, Mining and Tourism, c) Transport Infrastructure and Nsanje World Inland Port, d) Education Science and Technology, e) Public Health, Sanitation, Malaria and HIV/AIDS Management, e) Integrated Rural Development, f) Green Belt Irrigation and Water Development, h) Child Development, Youth Development and Empowerment, i) Climate Change, Natural Resources and Environmental Management) agriculture and food security; These nine key priority areas are expected to accelerate the attainment of the Millennium Development Goals (MDGs). Table 1 below presents areas of linkage between MGDS II and ASWAp.

Table 1: Areas of Linkage between MGDS II and ASWAp

<i>Key Priority Area</i>	<i>Goals</i>	<i>Expected-Medium Term Outcome</i>
Agriculture and Food Security	<ul style="list-style-type: none"> • Increase agriculture productivity and diversification. • Ensure sustained availability of food to all Malawians at affordable prices. 	<ul style="list-style-type: none"> • Increase smallholder farmers' output per unit area. • Increased agricultural diversification • Increased production of high value agricultural commodities for exports • Improved agricultural research, technology generation and dissemination • Increased livestock and fish production • Reduced land degradation • Food self-sufficiency • Sustained agricultural market systems • Enhanced agricultural risk management
Agro-processing	<ul style="list-style-type: none"> • To move up the value chain in key crops • To increase agro-processed products for both domestic and export markets. 	<ul style="list-style-type: none"> • Increased value addition to agricultural products • Diversified agro-processed products
Green Belt Irrigation and	<ul style="list-style-type: none"> • To increase agricultural production 	<ul style="list-style-type: none"> • Increased land under irrigation • Reduced dependence on rain-fed

<i>Key Area</i>	<i>Priority</i>	<i>Goals</i>	<i>Expected-Medium Term Outcome</i>
Water Development		and productivity through irrigation intensification.	agriculture <ul style="list-style-type: none"> • Increased agricultural production and productivity • Increased household income levels
Climate Change, Natural Resources and Environmental Management		<ul style="list-style-type: none"> • To enhance resilience to climate change risks and impacts 	<ul style="list-style-type: none"> • Improved climate change mitigation and adaptation measures
Land		<ul style="list-style-type: none"> • Ensure equitable access to land and tenure security and orderly use of land and land based resource 	<ul style="list-style-type: none"> • Improved access to land and tenure security, land planning, use and management

Source: GOM, MGDS II (2011)

1.4.2 The National Agricultural Policy

In an attempt to harmonize policies, the Government has recently reviewed the various national development strategies, agricultural strategies and agricultural-related legislation and policies and produced a National Agricultural Policy-2010-2016 (NAP). The NAP is a synthesis and summarizes the objectives of agricultural development, strategies and policies that will be pursued to achieve both stated and commonly perceived agricultural objectives. The purpose NAP is to promote agricultural productivity and sustainable management of land resources to achieve national food security, increased incomes and ensure sustainable socio-economic growth and development.

1.4.3 Other Sectoral Policies and Issues

There are several other sectoral policies and on-going reforms that will have significant bearing on the achievements of outputs and outcomes of the ASWAp. These issues include HIV and AIDS, gender, the rule of law, macro-economic management, decentralization and Aid harmonization.

HIV/AIDS and Gender: The Ministry of Agriculture and Food Security has developed a gender and HIV/AIDS policy that focuses on gender and HIV/AIDS mainstreaming; economic empowerment; community-based support; food and nutrition security; expanded HIV/AIDS communication; human resources protection and management; workplace support; and HIV/AIDS action research. The policy recognizes that women and the youth are responsible for a significant proportion of work in agriculture and the rural sector.

Decentralization: Through the decentralization programme, some central Government powers, functions and resources have been devolved to Malawians through their local authorities. The progress towards decentralization has however been slow. There remain

important unresolved issues including ineffective linkages between decentralization policy and other public policy reforms; persistent power struggles and conflicts of roles between elected members such as Members of Parliament, Councillors and Traditional Authorities; weak institutional capacity, high turn-over of key staff like accountants, economists and other specialists; ineffective participation of the local communities due to lack of information, knowledge and skills; and inadequate financial resources among others.

Macroeconomic Management: Macroeconomic stability in a stable political and economic environment is a prerequisite for sustainable economic growth and wealth creation. In the past few years, there has been substantial progress in macroeconomic management – the results of which are reflected in better use of resources, stable exchange rates, declining inflation and declining interest rates. The current macroeconomic stability through prudent fiscal management and public sector management, transparency and accountability, and reduction in corruption is likely to provide a conducive macroeconomic environment for sustainable agricultural development. It is worth noting that growth of GDP estimated at 6.7% in 2011 has been increasing and is projected to stabilize at 6.6% by 2012, the average inflation rate dropped from 16.9% in 2005 to 7.4% in 2010 and is projected at 6.9% by 2012. Commercial banks base lending rates have fallen from 25% in 2005 to 13% in 2010, (GoM Annual Economic Report, 2011).

Rule of Law: The creation of a strong legal system that safeguards the interest of both the nation and the individual is a fundamental factor for achieving sustainable economic growth and development. This, among others, is envisaged to create an enabling legal and regulatory framework that provides incentives for economic activities. In the agriculture sector, a strong legal and regulatory framework covering areas such as credit, property rights, patent rights and enforcement of contract farming and out growers' schemes, cooperatives and public/private partnerships would be instrumental in the development of the sector through private sector involvement.

1.4.4 Comprehensive African Agricultural Development Programme (CAADP)

Malawi, as a member of several regional economic groupings, has to align its development activities to be consistent with achieving the development targets set at regional level. Under the New Partnership for Africa's Development (NEPAD), Africa's Heads of State and Government have recognized the critical importance of agriculture as the cornerstone of sustained growth and poverty reduction through adoption of the Comprehensive African Agricultural Development Programme (CAADP) - a strategy to put African agriculture on the path of strong and sustained growth. The principles of CAADP include achieving a 6 percent agricultural growth and allocating at least 10 percent of budgetary resources to the agricultural sector. The Malawi ASWAp shares the principal elements and priorities of CAADP and closely mirrors its emphasis on agricultural productivity.

CAADP comprises four mutually reinforcing pillars namely (1) sustainable land and water management; (2) improved market access and integration; (3) increased food

supplies and reduced hunger; and (4) research, technology generation, dissemination and adoption which is a cross-cutting pillar supporting and reinforces the other three pillars (Figure 1).

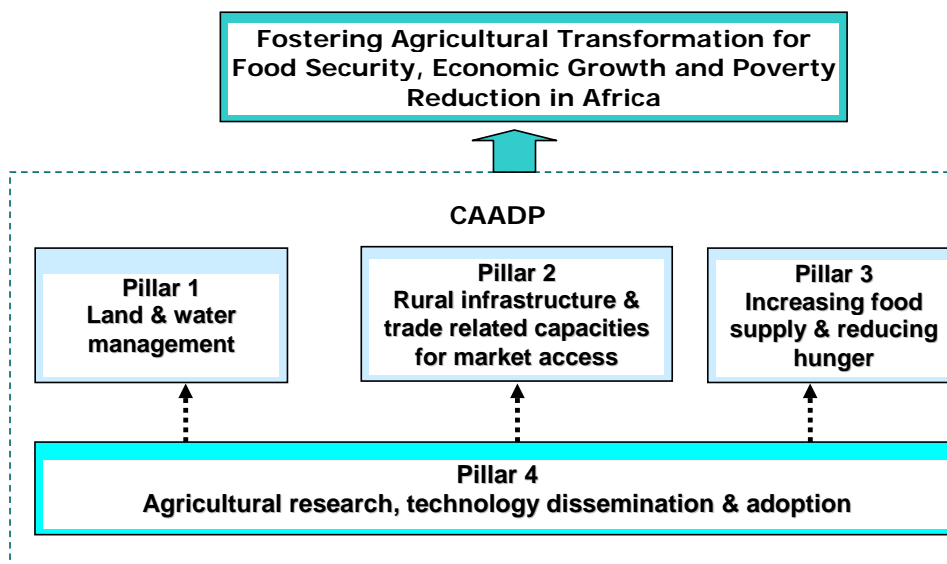


Figure 1: The Four Pillars of CAADP

1.4.5 Development Assistance Strategy

The Development Assistance Strategy (DAS) sets out the policy and strategies for increasing efficiency and effectiveness in the mobilization and utilization of Aid in achieving the development results set out in the MGDS. The DAS seeks to achieve these outcomes through the operationalisation of the norms of the Paris Declaration on Aid Effectiveness. The five norms are: (i) National ownership of the development agenda; (ii) Alignment of Development partners to the National Development Strategy and Government systems; (iii) Harmonization of Development partner’s systems and activities; (iv) Managing resources and decision-making for results; and (v) Mutual accountability for development results.

The ASWAp seeks to operationalise the DAS policy framework through the development and enforcement of the Malawi CAADP Compact. The ASWAp seeks to provide a framework to which external partners can align, by reducing the number of individual projects, increasing co-financing of larger projects, ensuring that projects support specific components and sub-components of the ASWAp and that they contribute to key output and outcome indicators identified in the results framework.

Figure 2: The four pillars of CAADP

The ASWAp is organized as follows: Chapter 1 is an introduction and presents the assumptions for successful implementation of the strategy and the guiding policy frameworks. Chapter 2 provides rationale and justification of the ASWAp. Chapter 3 summarizes the past performance of the agriculture sector. Chapter 4 presents priority investments of the ASWAP whereas Chapter 5 provides information on implementation

arrangements.

CHAPTER TWO

RATIONALE FOR THE ASWAP

2.1 JUSTIFICATION FOR THE 6 PERCENT AGRICULTURAL GROWTH TARGET

Stakeholders agree that Malawi needs substantial increases in its agricultural growth rate if it is to significantly reduce poverty and lay the foundation for any kind of structural transformation that would benefit a large portion of the population. The CAADP, which is a concept of NEPAD, had set the agricultural growth target at 6 per cent for the African continent. All African countries were tasked with finding ways to achieve this target. The ASWAP is therefore using a minimum target of 6 per cent growth in the agricultural sector as recommended by CAADP.

In general, the ASWAp will encourage broad-based agricultural growth in order to achieve the 6 per cent annual growth rate as prescribed by MGDS and CAADP with the assumption that it will be supported with an allocation of at least 10 per cent of the national budgetary resources as per the Maputo Declaration.

2.2 THE CGE MODEL PRIORITY OPTIONS FOR MALAWI

An economy-wide Computable General Equilibrium (CGE) model was developed for Malawi to define priority options for investment under the ASWAp using the various commodity scenarios in Table 2 (Benin et al., 2007). The model reveals that the maize-led strategy contributes about 28 per cent and 30 per cent to the CAADP growth and poverty reduction targets, respectively.

Table 2: Agricultural Commodities in the CGE Model

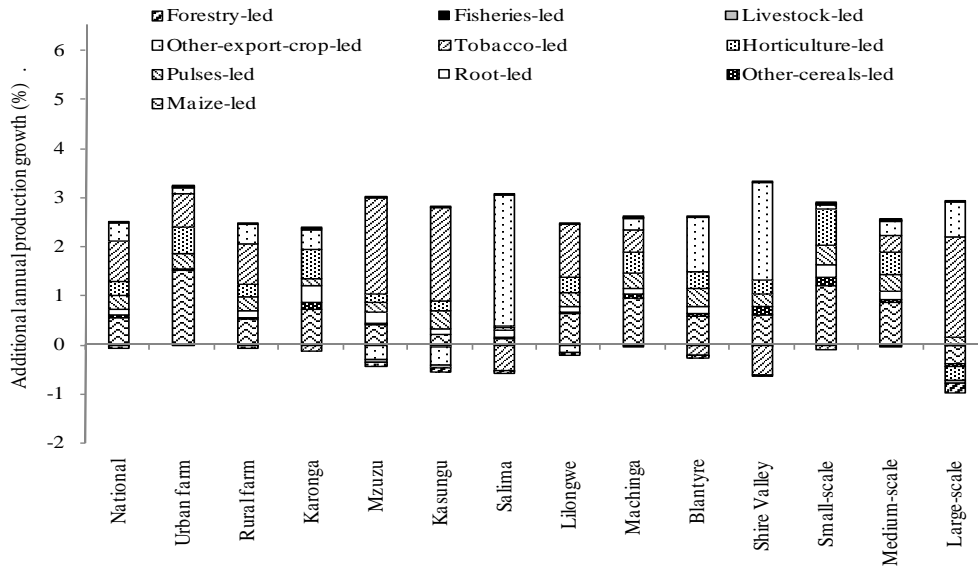
Maize-led	Other Cereals-led	Root crop-led	Pulses-led	Horticulture-led
Maize	Rice Millet Sorghum	Cassava Sweet Potatoes Irish Potatoes	beans, soybeans, pigeon peas Groundnuts	>Fruits (banana, mango, citrus, pineapple) >Vegetables (tomato, onion, garlic, shallot) >Spices (chillies, paprika) >Tree-nuts (macadamia, cashew)

Tobacco-led	Other export crop-led	Livestock-led	Fisheries-led	Forestry-led
Tobacco	Cotton Sugarcane Tea	Poultry cattle, goats, pigs	Fisheries (Capture fisheries & aquaculture)	Forestry

Source: Benin et al. (2007).

Figure 2 presents the extent to which specific agricultural commodities generate additional agricultural growth above the baseline scenario. It is apparent from the model that at national level, tobacco and maize based strategies bring the most additional agricultural growth relative to other agricultural commodities. Benin et al. (2007) concluded that achieving the 6 per cent agricultural growth is feasible, but this requires additional growth in other high value crops and not only in maize or tobacco.

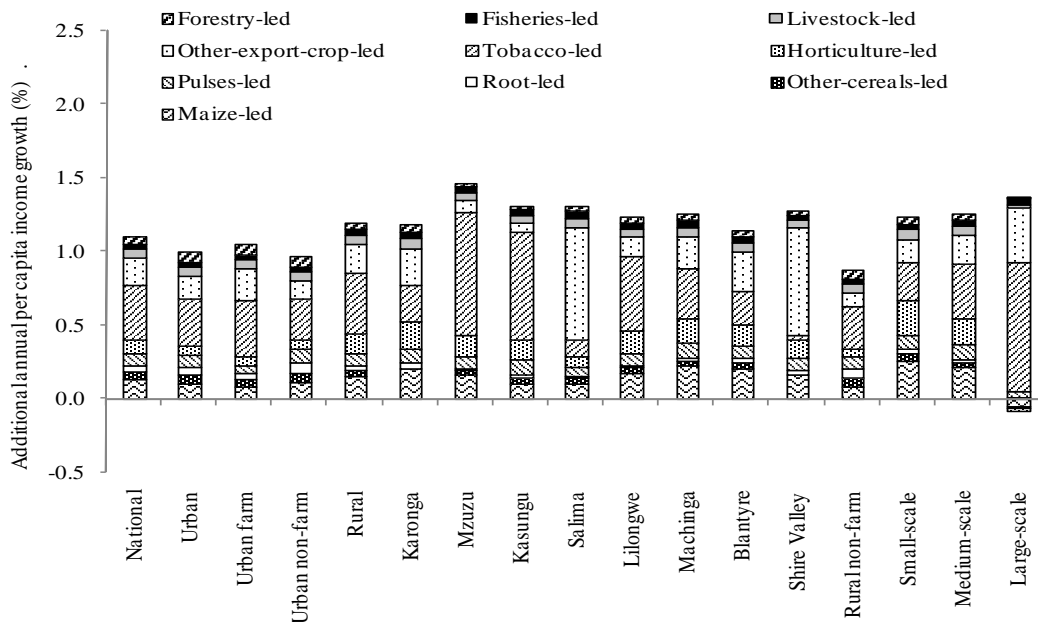
In terms of farm sizes, it is important to note that additional agricultural growth is likely to come from small-scale farmers particularly resulting from a maize-led strategy. Tobacco is likely to be the main commodity that will bring additional growth among large-scale farmers. It is important to note that ecological zones matter in the importance of commodities in agricultural growth. Maize is an important contributor to additional growth in Machinga, Lilongwe, Blantyre and Karonga ADDs. On the other hand, other export crops, particularly cotton, are the dominating commodity that will lead to additional growth in Salima and Shire Valley ADDs while tobacco dominates in Lilongwe, Mzuzu and Kasungu ADDs.



Source: Benin et al. (2007)

Figure 3: Sources of Additional Production Growth by Farm Household Groups

The results of the CGE model also reveal that incomes will be driven mainly by growth in tobacco, cotton and maize. This, however, depends on the agro-ecological zone in the country (Figure 3). For instance, tobacco will significantly contribute to incomes in Mzuzu, Kasungu and Lilongwe ADDs while other export crops (such as cotton) are important in Salima and Shire Valley ADDs.



Source: Benin et al. (2007).

Figure 4: Sources of Additional Per Capita Income by Household Groups in Malawi

However what is clear is that, in order to achieve the targeted 6 per cent agricultural growth rate, there is need to increase investments in the agricultural sector. Benin et al. (2007) noted that increasing agricultural growth to meet the 6 per cent target requires that government spending on agriculture would have to grow by 23 per cent per annum, resulting in 33 per cent of the total budget allocated to the agricultural sector by 2015. Although, no specific investment priorities were identified, Benin et al. (2007) suggest, consistent with the analysis presented in this document, that such spending should focus on key activities such as promotion of increased use of inputs (fertilizer, improved seed, pesticides, herbicides); development, dissemination and utilization of economically viable technologies and options; irrigation development; and infrastructure development.

Value addition through agro-processing is also a good option and the potential commodities for processing include tobacco, cotton, sugarcane, cassava, vegetables, fruits, chillies, paprika, coffee, tea, milk and fish.

2.3 JUSTIFICATION FOR ASWAP FOCUS AREAS

2.3.1 Improved Food Security and Nutrition

The MGDS sees food security as a prerequisite for sustainable economic growth and states that food should be available in sufficient quantities, either through domestic production or through imports, so that Malawians have access to sufficient nutritious food to lead a healthy and productive life. It is the intention of the government to move away from the experience of severe food shortages that characterised the final decade of the last millennium and the first five years of the current one to a situation of sustainable food and nutrition security.

a) Food Security

Government has been promoting maize production for food self sufficiency at household and national levels through production by both smallholder and large scale farmers. However commercial production of maize by large scale farmers declined due to poor prices of maize that led to low profitability thereby leaving maize production in the hands of smallholder farmers only. Consequently not enough maize has been produced to feed the nation annually due to input constraints faced by smallholders.

Due to the maize shortages experienced, the Government's central policy during recent years has been to promote maize production at household and national levels primarily by a targeted input subsidy programme with more than 50 per cent of the current budget of the MoAFS is allocated to the input subsidy. Targeted at small-scale farmers, it has resulted in major maize production increases from 1.2 million metric tonnes in 2004/05 up to 3.4 million metric tonnes in 2009/10. This production recorded in 2009/10 resulted into a surplus of about one million metric tonnes.

The targeted input subsidy programme needs to be continued and improved in order to achieve sustainable food security. In order to maximize the payoffs to such investments there is need to increase complementary research and extension efforts towards achieving greater efficiency in resource use. This can be accomplished by better targeting of nutrients and water availability to plants, adoption of good agricultural practices managing post-harvest losses and responding adequately to climatic variability.

In addition to maize self-sufficiency, diversification of smallholder farming systems can increase food availability, through creating economically attractive production options for drought-resistant crops such as cassava, sorghum and millet. As importantly, the evidence is clear that, once farmers reliably achieve food security, they rapidly explore other, potentially more profitable, livelihood options (both on- and off-farm). This further diversification helps reduce the vulnerability of households to unexpected shocks.

There are, however, challenges to this strategy as shown by published Malawi experimentation. Conventional rotation and intercrop systems often produced moderately reduced quantities of grain compared to monoculture maize, which could be unacceptable to risk-adverse farmers on small land holdings (even though legume grain has enriched value compared to maize grain). The notable exceptions are the long-lived legumes for which reliable on farm Malawi data show can produce the same quantity of grain as monoculture maize, and which increase the fertiliser use efficiency from 17kgs of grain from 1 kg of nitrogen to 30 kgs of grain. This indicates that shrubby legumes could transform the economic viability of fertilizer subsidy policies.

Over the past years, other strategies have been tested for coping with the risks of drought, food supply shortfalls and price variability. These pilot interventions involved weather insurance, price hedging, warehouse receipts, increasing storage capacity and agricultural credit. The application of these risk management approaches has the potential to reduce the variability of Malawi's maize supply and prices. These approaches would also strengthen Malawi's ability to participate in regional grain trade.

b) Nutrition Security

The long term goal of government is to significantly reduce the degree and severity of malnutrition in all its forms in the country i.e. chronic and acute malnutrition and micro-nutrient deficiency disorders among the men, women, boys, girls, under-five children, expectant and breast feeding mothers, and people living with HIV and affected by AIDS. The ASWAp programmes will therefore ensure that Malawians have both physical and economic access to adequate nutritious food for an active healthy life. The ASWAp will therefore address most of the critical factors which create a food and nutrition insecure situation in Malawi mainly; chronic poverty; low agricultural productivity; low food intake due to lack of economic opportunities either to produce adequate nutritious food or to exchange labour for income to purchase nutritious food; poor food utilization due to inadequate knowledge and skills about food values; food choices, dietary diversification and child feeding practices; poor nutrition education which is currently targeting women and not reaching men as decision makers at household level; inadequate knowledge,

skills and technologies for food preparation, processing and preservation; inadequate capacity of institutions to implement nutrition programs at national, district and community levels.

2.3.2 Commercial Agriculture, Agro-processing and Market Development

Agricultural commercialization aims at increasing value addition to agriculture and productivity of farmers while reorienting smallholder sub-sector towards greater commercialization and international competitiveness. The government seeks to broaden participation of smallholders in commercial crops, livestock and fish production. This will be achieved by promoting contract farming (principally of tobacco, cotton and horticultural crops), out-grower schemes (e.g. sugar, tea, horticultural crops) and farmer cooperatives. Most of the export crops are grown on commercial estates and expansion of smallholder participation will ensure that the benefits to agricultural growth trickle down to the poor.

To compete on international markets, Malawi needs to upgrade the quality of export commodities for higher unit value on international markets and to pursue niche markets (e.g. vegetables, paprika, chillies, fruits) of commodities for which it has a comparative advantage. This will require a significantly enhanced research and development programme, closely linked to emerging and changing market needs. There are opportunities for import substitution by promoting local agro-processing industries oriented towards food and feed production such as cassava starch, poultry feed, canned fruits and vegetables, fruit juices, dried fish, milk and milk products, meat and meat products, and potato crisps.

2.3.3 Sustainable Agricultural Land and Water Management

The critical natural resource inputs into the production of food and commercial crops are land and water. However, these resources are not sustainably managed resulting in land degradation, soil erosion, deforestation, diminishing water resources and declining biodiversity. Sustainable land and water management is key to sustained agricultural production.

(a) Land resources

This sub-programme mainly targets higher efficiency of soil nutrients (mainly nitrogen) and available rain water use efficiency, to maintain and increase crops and fodder productivity. This in turn would allow for sustainable cash cropping and food diversification. Actions under sustainable land management (SLM) will therefore emphasize better land husbandry at farm level, including integrated soil nutrient management relying on both organic and inorganic technologies. Adapted conservation agriculture practices will increase the soil water and nutrient buffer capacity to ensure higher productivity of rain-fed crops and mitigate the effects of weather variability and climate change. This approach will also reduce loss of agricultural land, especially in more fragile area, and protect vulnerable areas.

The ASWAp recognises that much investment in conservation agriculture has already been made in Malawi and uptake has been modest. However, the overall thrust of the ASWAp is the widespread introduction of profitable farming options to the poor. The evidence is clear that, as farmers rise out of poverty, so they diversify and are able to take the longer term decisions to protect their environment. Thus as the ASWAp starts to create a profitable basis for agriculture in Malawi, so efforts will be increased to promote sustainable farming approaches.

(b) Water resources

Malawi agriculture is dependent on rain which is currently not reliable because of climate change. In the context of increased weather variability and climatic change, increasing water use efficiency and strengthening irrigation potentials will contribute to increased revenues to farmers. However these investments are only justified for high-value crops for local and export markets.

(c) Climate Change Issues

Climate Change effects, droughts and floods, are the major climatic hazards affecting crop production and the fisheries sector and have been responsible for the declining or even drying of water bodies resulting in low fish production. The possible interventions to mitigate the effects of climate change are many and have been included in the focus areas of the ASWAp.

2.3.4 Agricultural Research and Extension Services

Public expenditure on agricultural research and extension is currently low and major investments are needed to revitalize the research and extension services increased agricultural production is to be successful. Furthermore, international and regional as well as private technology flows need to be further integrated and diffused to farmers. The ASWAp will strengthen technology generation (research) and technology dissemination (extension) services.

2.3.5 Institutional Development and Capacity Building

The successful pursuit of an Agricultural Sector Wide Approach requires strengthening of the capacities of the Ministry of Agriculture and Food Security to design and implement a coordinated investment programme. It also involves strengthening the capacities of other stakeholders in the sector such as farmer organizations, civil society and communities.

Improvement in systems and processes in programme planning, budgeting, procurement, financial management, monitoring and evaluation, and administration will encourage donors to contribute directly to a national investment plan. Furthermore training programmes targeting the resolution of critical gaps in technical skills will enhance the capacity of the Ministry to implement the agreed agenda. Institutional development and

capacity building, for state and non-state actors, are cross cutting in nature and are a pre-requisite to the success of the ASWAp.

Institutional Development and Capacity Building activities under the ASWAp will take into account the core function analysis (CFA) undertaken for MoAFS. This determines the specific roles that different players in the sector play based on their identified competences and capacities. The ASWAp will also finance capacity and institutional strengthening of farmers unions, commodity bodies, water user associations and other relevant stakeholders.

Through ASWAp focused training programmes at the universities and colleges of agriculture will be supported to enhance skills of professionals necessary to work with farmers, agricultural educators, researchers and extension staff to harness knowledge and information from various sources to create improved livelihoods for the poor. ASWAp will create an enabling environment that encourages interaction amongst all actors in the system to put knowledge into socially and economically productive use and make knowledge available through dissemination practices that promote interaction and learning by all.

CHAPTER THREE

SECTOR PERFORMANCE AND KEY CHALLENGES

3.1 SECTOR PERFORMANCE

In analyzing performance of the agricultural sector, trends in agriculture growth, food production and security, livestock production and agricultural trade performance were examined.

3.1.1 Agricultural Growth

The performance of the agriculture sector in terms of output has not been consistent. It is important to disaggregate data to get a clear perspective on changes in the agriculture sector. Between independence and the late 1970s, the estate sector (farming leasehold land) was the engine of growth, exporting tobacco, tea and sugar. The smallholder sub-sector (farming customary land) focused on food production – especially maize for national food self-sufficiency. The estate sub-sector grew at an average of 17 percent per annum over the period 1964-1977, while the smallholder sub-sector grew at an average rate of 3 percent per annum (well below the rate needed just to maintain food needs) (Conroy et al, 2007).

The bias in favour of estates at the expense of smallholders took many forms: customary land was annexed from the smallholder sub sector; smallholders were legally prevented from growing important high value crops (burley tobacco, tea and sugar were reserved for the estate sub sector); smallholder producers of export crops were paid less than the export parity price by the state marketing board with most of the resulting profits channelled into the development of the estate sub sector. The smallholder sector was relied upon to provide a marketable surplus of the staple food, maize, to feed estate and urban workers.

Nevertheless, the 1970s were characterized by substantial support by the government to the agricultural sector and consistency in policies with respect to subsidization of agricultural inputs, access to agricultural credit administered by the government through farmers' clubs, availability of produce markets, farmers' access to extension services, and increased investments in research and development. The consistent weakness was the failure to create broad-based change across the smallholder sector.

The aggregate agricultural growth during the period 1970-2005 agricultural output was 4.35 per cent per annum, much lower growth rates were registered in the 1980s and in the 2000-2005 period (Table 3). Recent figures show that agricultural output just grew by 2.16 per cent per year between 2000 and 2005, much lower than in the 1970s, when the

average annual growth rate was 5.35 per cent². The growth rates in GDP per capita and agricultural GDP per capita were generally negative during the 1980s and early 1990s, with some improvements in the late 1990s. The late 1990s actually registered higher growth rates in GDP per capita and agricultural GDP per capita than during the 1970s. The high growth rate in agricultural GDP in the 1995-1999 period is probably an anomaly and can be partly attributed to a reported (but probably overstated) estimate of the increase in production of root crops for home consumption such as cassava and sweet potatoes.³

The smallholder agricultural sub-sector had the worst growth rates, with a decline of 1.8 per cent per annum between 2000 and 2005– these were the years when financial support for farm inputs was withdrawn. From 2006 – 2009, Malawi has experienced positive agricultural growth (9.23%) largely due to the successful implementation of the Farm Input Subsidy Program and favourable weather patterns in the period.

Table 3: Percentage Growth in the Agriculture Sector's Output, 1970 - 2009

Indicator	1970-79	1980-84	1985-89	1990-94	1995-99	2000-05	2006-09
Gross Domestic Product	5.9	1	3.03	0.61	6.4	1.55	7.28
Agricultural GDP	5.35	0.36	1.28	2.15	15.06	2.16	3.63
GDP per capita	2.4	-2.08	-0.2	-2.66	3.17	-0.28	13.6
Agricultural GDP per capita	1.9	-2.7	-1.89	-1.19	11.55	0.36	4.99

Source: Chirwa et al; 2006 - 2009 Updated using data from Annual Economic reports, IMF, Resakss

3.1.2 Food Production and Food Security

Achieving national food security has been one of the major objectives of agricultural policies adopted since independence. In Malawi, national food security is mainly defined in terms of access to maize, the main staple food. Thus, even if the total food production is above the minimum food requirement, but maize supply is below the minimum food requirement, the nation is deemed to be food insecure. The nation therefore faces a food crisis if the production and supply of maize falls below the minimum required levels. Despite the fact that other food crops such as rice and cassava are alternatives to maize in some parts of the country, maize has remained the main staple food for Malawians⁴. This has not happened by chance considering that maize is a potentially highly productive crop which stores well under Malawi smallholder farmer conditions.

² As noted earlier, the impressive growth rates in the 1970s were achieved through a narrow based policy environment. The lower growth rates today reflect the drag inflicted on the economy by the increasing poverty consequent upon those earlier policies.

³ World Bank (2003) notes the estimates for root crops (cassava and sweet potatoes) tend to be overstated and understate the potential food shortages

⁴ In a study of recipients of the free farm inputs in 1999/00 season, 96.4 percent reported that maize was the staple food for the household, while cassava is a staple only for 2.8 percent and rice for 0.5 percent of the sampled households (NSO, 2000)

Measured against the minimum maize requirement of 185 kilograms per capita⁵, Malawi was, in aggregate terms, self-sufficient in maize production in the 1960s and 1970s (Figure 4) when there were fewer people and larger farms. Even so, the nutrition data show that the distribution of available food was highly uneven, indicating significant household food insecurity. Maize production was heavily dependent on a blanket maize fertiliser subsidy programme. Blanket subsidies of this type were recognised as an inefficient way of helping the poor and were, therefore, targeted early on in Malawi's reform process.

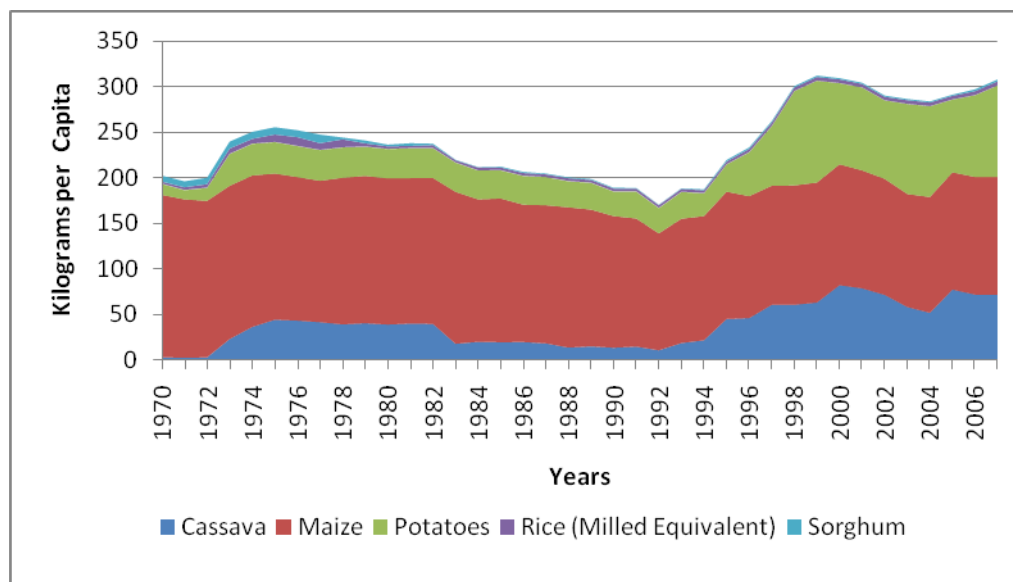
The period of economic reforms which started in the 1980s were accompanied by increased imports of maize to satisfy domestic demand⁶. While poor weather conditions, low maize productivity and high population growth were factors in causing the growth in maize imports, the major influence was the withdrawal of subsidised fertiliser. Furthermore, the smallholder credit system which delivered the subsidised seed and fertiliser to the larger smallholders was implemented with draconian penalties against those who defaulted.

The severe 1991-2 drought made it was impractical and inequitable to demand credit repayments from families on the edge of survival leading to the collapse of a state managed credit system; this was combined with the sharp rise in international fertiliser prices- a disastrous effect on household food security and national food sufficiency.

The 1996/7 supply of marketed maize (after a good growing season) fell precipitously, the village level purchase price of maize quadrupled, and there was widespread hardship amongst the majority poor section of the population. The liberalisation of markets (agreed generally as essential to Malawi's future growth) was rapidly becoming discredited amongst the public by the high consumer price of maize and by the conspicuous rents evidently being extracted by private traders. The economy was experiencing all the downside effects of liberalisation, but few of its benefits.

⁵ In fact, this excludes losses between harvest and consumption, a more valid figure allowing for such wastage is 220 kilograms.

⁶ Other food crops such as rice, cassava, sorghum and potatoes are bridging these shortages in maize production and supply and there were substantial reported increases in cassava production in the late 1990s. However, production statistics for sweet potatoes and cassava appear unreliable with these crops accounting for a small fraction of consumption.



Source: Computed using FAOSTAT data

Figure 5: Trends in Main Food Staples per Capita, 1974-2007

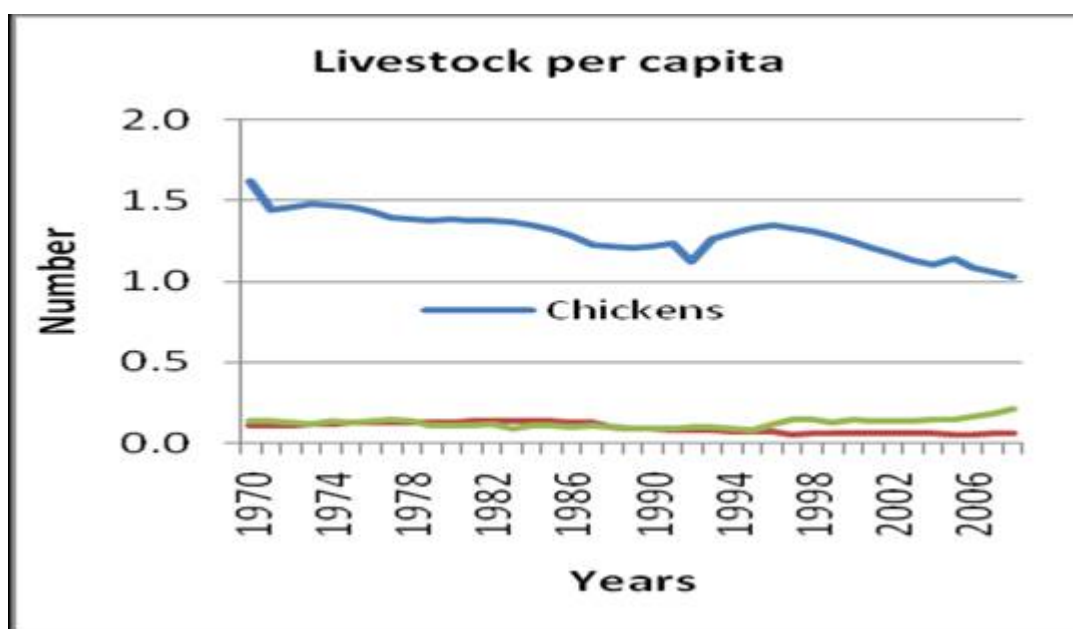
The outcomes were that per capita maize production since the early 1990s has fluctuated between 170 and 220 kilograms, with sharp declines in 1992 (67 kilograms) and in 1994 (105 kilograms) (World Bank, 2003). At household level, recent surveys indicate that the average months of food security for rural households from own production in a normal year is between 6 and 7 months. Food supplies in Malawi fluctuated between 1.6 and 1.7 kcal per capita per day from 1996-99 compared to the minimum requirement of 2.2 kcal per capita per day. The increase in food production in 1999 and 2000, and from 2005 to 2009 has been largely attributed to good weather and the implementation of the agricultural safety net programmes, including the free ‘starter pack’, the targeted input program and the input credit facilities from the Malawi Rural Finance Company and the Farm Input Subsidy Program.

There is, therefore, a critical link between food security, and maize inputs availability and the relevance of a policy focus on these key areas in addressing poverty in Malawi. The underlying fact is that unless Malawi farmers have access to improved inputs for both food production and diversification, unacceptably large numbers of the poor will be exposed to hunger. It is in recognition of this fact that the Malawi Government has added a significant emphasis to investment in agriculture as a prerequisite for economic growth and resulted in the successful implementation of the fertilizer subsidy programme FISP. Recent government support towards the smallholder sector through FISP, combined with good rains, has led to significant increases in maize production from 1.2 million metric tons in 2004/05 to 3.4 million metric tons in 2009/10.

The renewed emphasis on agricultural sector has transformed Malawi from a net importer to a net exporter of maize and allowed the majority of households to attain food security since 2005/06. It has also led to low and stable maize prices- very important in a country where the majority of households are net consumers and food accounts for over 60 per cent of household income.

3.1.3 Trends in Livestock Production

The trends in levels and growth of livestock per capita show that livestock production has been declining (Figure 5). The numbers of chickens and cattle per capita have been declining, with the average in the last past five years being lower than that recorded in the early 1970s. The per capita number of goats, however, has marginally increased. The poor performance of the livestock sector is partially a reflection of the lack of emphasis in the agricultural strategies and policies towards livestock. Another factor is the poor performance of the cropping sector- as the demands for cropping land increase, so farmers move more into traditional grazing areas and cropping displaces livestock. Thus increases in grazing livestock in Malawi will depend on improved productivity in arable agriculture. Livestock also serve as security assets especially for the poorest households; in times of crisis, animals will be sold to raise cash for food and other needs. The dairy farming sector in Malawi is just being developed, but it faces several capacity constraints including lack of financial resources to purchase cows, poor farm management, outdated machinery in some dairy processing plants, and lack of competition in milk processing.



Source: Computed using FAOSTAT data

Figure 6: Livestock Production Trends: 1970 – 2008

3.1.4 Agricultural Trade Performance

The agricultural sector contributes more than 80 per cent of foreign exchange earnings, with exports dominated by tobacco, tea and sugar (Table 4). Maize is mainly grown to meet the subsistence needs of many farming households, with only 15 per cent of total production being marketed. Tobacco is the major export crop in Malawi accounting for about 71 per cent of total exports in the 1995-99 period from 47.7 per cent in the 1970s, although its share in export dropped to 55 per cent recently due to declining prices. Tea has been traditionally the second foreign exchange earner, but its significance has been declining from 21.2 per cent in the 1970s to 8.8 per cent in the late 2000s. Sugar has

traditionally been the third most important export commodity but is now taking over from tea, thereby accounting for 11.4 per cent of export earnings in the 2000-05 period. With the liberalization of burley tobacco production and marketing, smallholder farmers now account for about 70 per cent of the total national output.

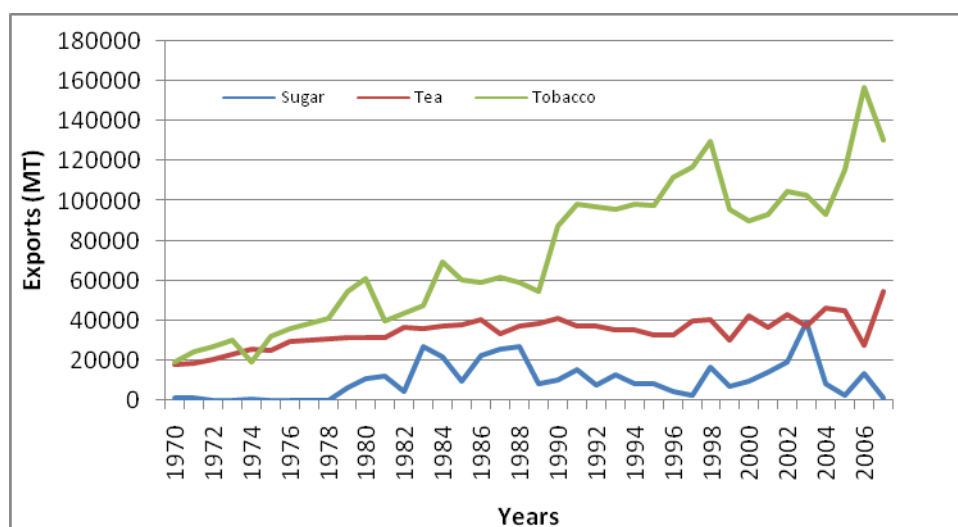
Table 4: Composition of Export Earnings by Main Commodity

Commodity	1970-79	1980-84	1985-89	1990-94	1995-99	2000-05	2006-09
Tobacco	47.7	50.4	57.7	69.9	70.5	54.6	65.06
Tea	21.2	18.2	14.4	9.7	9	8.8	6.27
Sugar	7.1	13.3	10	6.7	7	11.4	6.66
Cotton	2.9	0.7	1.2	1.1	1.7	2.1	2.32
Other (non-agric)	13.4	11.6	8.9	9.5	6.6	19.4	19.7

Source: Chirwa et al, Updated for 2006 – 2009 using data from RBM Financial and Economic Review, Annual Economic reports

Groundnuts, traditionally one of the smallholder cash crops, used to be one of the major export crops until the late 1980s when the export market collapsed between 1990 and 1999 due to a change in demand for Chalimbana groundnut. Organized markets are critical for the success of smallholder commercialization and participation in high value crop production.

Malawi's trade problems are not entirely due to trade barriers imposed by the rich nations. Importantly, it simply does not produce enough goods to trade of the right quality and the right price. The landlockedness makes Malawi one of the high cost producer in world markets due to transportation costs, despite the low earnings of its farmers.



Source: Computed Using FAOSTAT data

Figure 7: Growth in Agricultural Exports, 1971 - 2007

3.2 KEY CONSTRAINTS TO THE AGRICULTURAL SECTOR

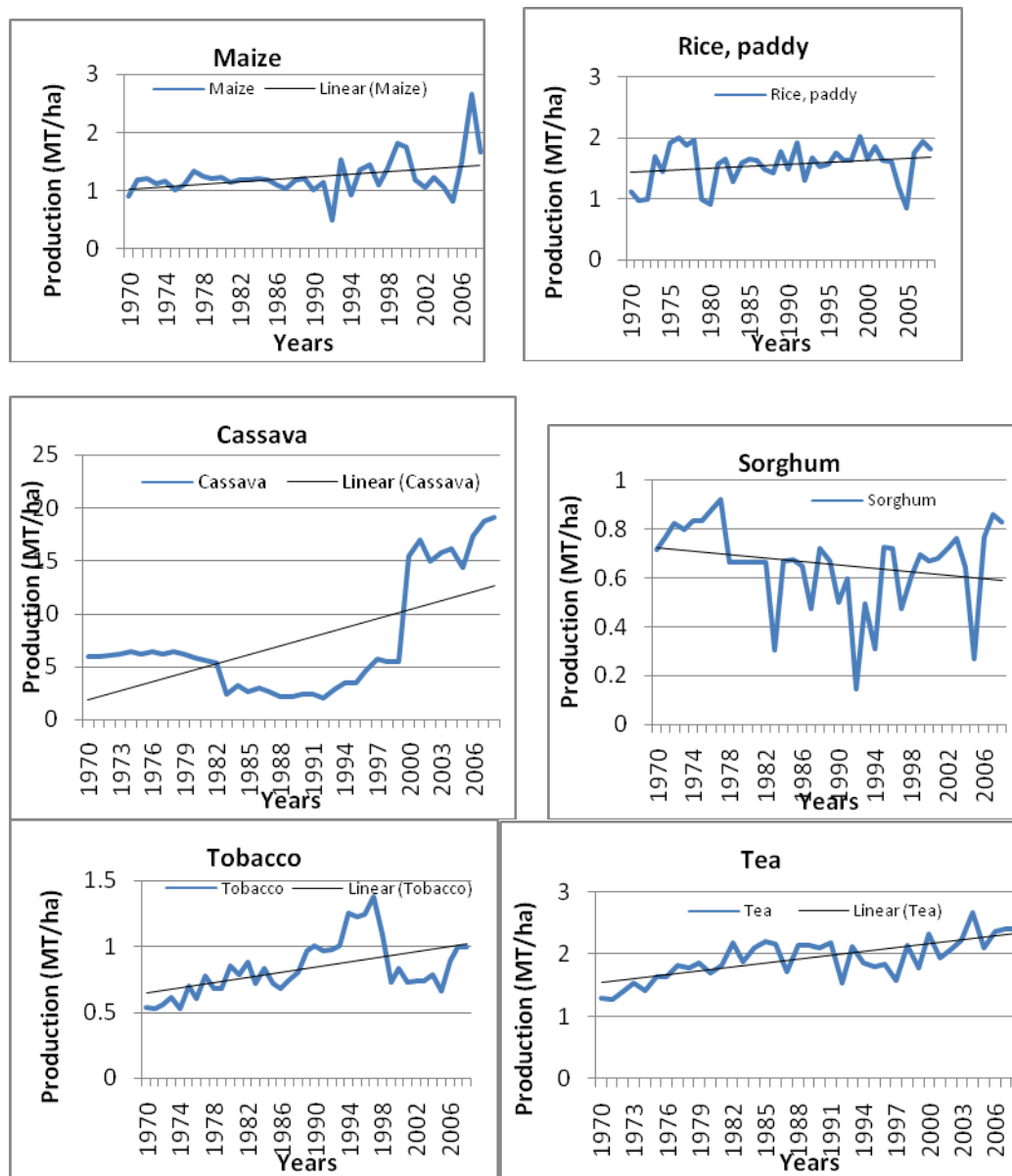
There are several key constraints in the agricultural sector. The constraints include low and stagnant yields, over dependence on rain-fed farming which increases vulnerability to weather related shocks, low level of irrigation development, and low uptake of improved farm inputs. In addition, low profitability of smallholder agriculture is influenced by weak links to markets, high transport costs, few farmer organizations, poor quality control and lack of market information.

3.2.1 Low Productivity

The poor performance of the agricultural sector in Malawi is partly attributed to the low levels and growth rates in productivity. Figure 7 presents trends in productivity of main agricultural crops in Malawi between 1970 and 2005. Productivity is narrowly defined as output per hectare of land cultivated indexed to base 1970. This shows that productivity in most of the agricultural crops increased but not sufficiently to offset the effects of population growth. The percent yield gaps range from 38 per cent to 53 per cent for cereals, and 40-75 per cent for legumes.

There have been marginal increases in maize and rice productivity, a substantial increase in cassava productivity (although there are serious reservations on the reliability of the data), and a decline in sorghum productivity. Until the early 1990s, when burley tobacco production was liberalised, tobacco farming registered steady improvements in productivity with a modest positive trend line, although there has been a reversal more recently. The period that shows declining productivity in tobacco is associated with increased involvement of smallholder farmers since the liberalization of the sector in the late 1990s. Tea is the only crop that has witnessed steady improvements in productivity

since 1970. There has, however, been declining productivity in the past six years in both maize and rice production. In fact most of the crops show negative rates of productivity growth in the 2000-05 period, with the exception of beans and tea. This period includes the famine years of the early 2000s and may not represent a long term reversal of productivity growth.



Source: Computed from FAOSTAT data

Figure 8: Productivity Trends in Main Agricultural Crops, 1970- 2006

The major contributing factor affecting productivity in the smallholder sector in Malawi, as outlined previously, is the low input use. Inadequate access to agricultural credit, output and input markets, unfavourable weather, small land holding sizes and failures in technology development and transfer further exacerbate to low productivity. Even if

farmers attempt to diversify their production, the options are very limited as the needed improved inputs (and the advice to go with them) are not readily available. Profitability based around fixed production recommendations has been eroded as prices for major inputs such as fertilizers and chemicals have increased substantially.

There are some useful exceptions. In the tea sector, smallholder farmers are inter-linked with commercial tea estates in an input-market relationship without the problem of side selling⁷. In the coffee sector, smallholder farmers through their cooperative, manage savings and credit scheme that is facilitating access to inputs. In sugar, interlinking smallholder farmers with the buyers is facilitated by the availability of a single market for sugarcane. Quite naturally, market buyers are unwilling to put up capital for farmers to buy needed inputs if they are unsure of being able to recover the debt through side selling.

Similarly, although there has been an increase in livestock in absolute terms, supply fails to meet demand. The recent trends in cattle and chicken per capita is a declining one, while for goats there is an increasing trend in per capita goat production. The livestock sector experiences problems of lack of capital to invest in herd stock and ineffective control of animal diseases. Fish production in most of Malawi's water bodies has been declining in recent years due to over exploitation, poor pre- and post-harvest handling by communities and poor enforcement of legislation and preservation of fish stocks.

3.2.2 Nature of Farming System and Adverse Climatic Conditions

The agricultural sector is heavily dependent on rain-fed cultivation. Malawi has 3 million hectares of agricultural cultivatable land, but more than 99 per cent of agricultural land remains under rain-fed cultivation. The rain-fed nature of smallholder farming makes agricultural production prone to adverse weather conditions such as drought and floods. The country has experienced a number of climate change-related hazards over the past decades, particularly increased incidence of drought, dry spells, intense rainfall with riverside and flash floods, poor distribution of rainfall, and pest and disease outbreaks. In 1970, only 0.06 per cent of cultivatable land was under irrigation, but this has marginally increased to 0.47 per cent in 2005. More recently, government and non-governmental organisations have been promoting irrigated cropping during the rainy and dry season using low cost irrigation equipment such as treadle pumps. Most of the bumper harvests in maize have been in years that Malawi had good rains.

⁷ Side selling is the practice of conducting marketing arrangements outside the pre-agreed contract.

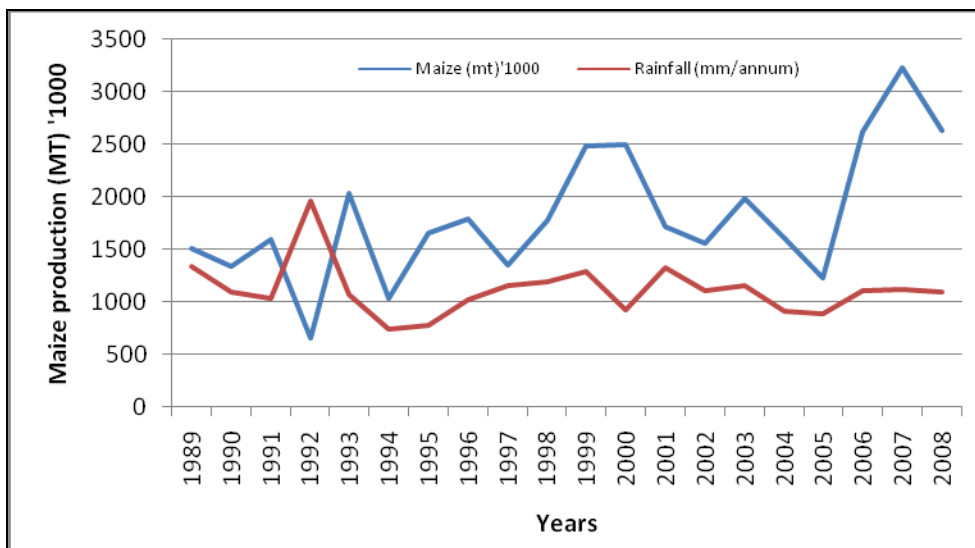
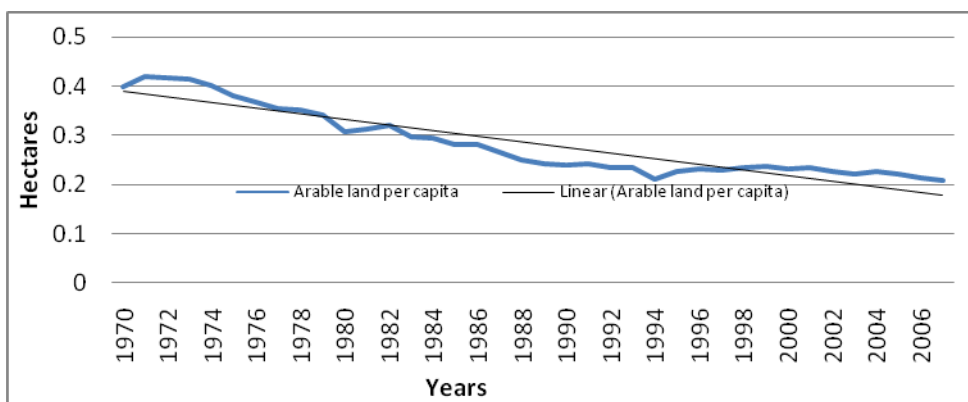


Figure 9: Rainfall and Maize Production, 1970 - 2008

3.2.3 Small Land Holding Sizes, Fragmentation and Degradation

Smallholder production is on customary land, on which rights to cultivate and transfer land is conferred by traditional chiefs. With the growing population, customary land has become more fragmented and the land holding sizes have declined. Average land size holding per household in Malawi is 1.2 hectares while the average land per capita is 0.33 hectares (GOM and World Bank, 2006). In addition, per capita land holdings are highly skewed, with the poor holding only 0.23 hectares per capita compared to the non-poor that hold 0.42 hectares per capita. The small land holding sizes are reflected in Figure 9 which shows the trends in per capita cultivatable land in Malawi. Per capita land holdings have been declining since 1970s, partly due to population growth of 3 per cent per annum. The increase in cultivated land may be due to cultivation of marginal and less productive land.



Source: Computed based on FAOSTAT data

Figure 10: Trends in per capita arable land, 1970 – 2006

The methods of cultivation on these small land holdings among smallholder farmers remain traditional and non-mechanised. Several studies in Malawi have shown a positive relationship between technology adoption (e.g. fertilizer use) and land sizes among smallholder farmers. There have been several government efforts promoting the adoption of fertilizers, hybrid varieties and modern methods of farming and the provision of price incentives through progressive market reforms. However, due to partly diminishing land holdings the supply response has remained weak. At current market prices for inputs and outputs, adoption of higher productivity technologies is simply impossible for the poor given their low purchasing power.

The absence of widespread adoption of more productive agricultural technologies has resulted in land degradation due to continuous cultivation, soil erosion, deforestation and limited technology adoption on land and water management.

3.2.4 Erosion of Agricultural Services

The liberalization of the agricultural sector witnessed the State withdrawing from direct interventions on input, output and financial markets in order to bring operational efficiency and to ensure private sector development. However, product markets and input markets for agricultural growth are still functioning imperfectly. With respect to product markets, most smallholder farmers are poorly organised and lack bargaining power over pricing of agricultural produce. Transaction costs remain high due to low traded volumes of agricultural produce and lack of agricultural financing. In the input market, access to agricultural financing is limited among smallholder farmers, particularly since the collapse of the government run smallholder credit scheme. Commercial banks and microfinance institutions consider lending to the agricultural sector as a risky investment; preferring to lend to non-farm sectors.

There has also been erosion of extension services. The supply-driven system of training of individual farmers that used to work effectively in the 1970s has been undermined by a growing farming population, collapse of the farmer club system, deaths and retirement of extension workers, inadequate training of new workers, lack of retraining of existing workers and declining resources allocated to the agricultural extension. NSO (2005) revealed that only 13 percent of agricultural households got advice from an agricultural adviser on crop and input management. The inadequate extension services have implications on the extent to which research and technology developed can be disseminated, adopted and efficiently utilized by smallholder farmers.

3.2.5 Limited Value Addition

Smallholder agriculture is associated with lack of value addition in agricultural products. There is very little agro-processing and most smallholder farmers sell raw agricultural produce without adding value. For the main cash crops, such as tobacco, groundnuts and cotton, which are mainly grown by smallholder farmers there is no value addition by smallholder farmers. However, in some cash crops such as cotton, sugar, tea and coffee smallholder farmers are linked to commercial processing facilities and some value addition takes place. For example, in the coffee sector, the cooperatives have their own

processing facilities and smallholder farmers are producing some of the final products such as Mzuzu coffee that is sold in retail markets both in Malawi and export markets. Mzuzu coffee, for example, has achieved a premium price of up to 47 percent which benefit smallholder farmers directly.

3.3 INSTITUTIONAL AND CAPACITY CHALLENGES

3.3.1 Weak and Poor coordination among implementing Institutions

Institutional structures with clear roles, responsibilities, and linkages supported by adequate resources and systems capacities are essential for the delivery of development programmes. Institutional arrangements for implementation of agricultural programmes and delivery of related services involve both state and non-state actors at central and district level. At national level, emphasis has been on the formulation and implementation of sector policies, strategies, projects and programmes and this has largely entailed a top-down approach. However, with the advent of decentralization, emphasis has shifted to state and non-state institutions at district level, which now have a greatly increased role in planning and implementation programmes and projects as well as delivery of services.

There are currently various ongoing institutional reforms within the sector that entail changing roles especially between central and district level institutions on one hand and between state and non-state actors, on the other. These include the Core Function Analysis (CFA) Initiative by the MoAFS that aims at defining roles of state and non-state actors in the planning and delivery of the ministry's remit. In the course of doing so, it will identify which functions the public sector should retain, which could be sub-contracted, and those that should be privatized. Key elements of the analysis include:

- National and local level responsibilities: This involves delineating the responsibilities of the MoAFS at central level (including the Agricultural Development Divisions) from those of the districts. An overarching principle, consistent with decentralisation policy, is that activities should be planned and implemented at the lowest possible level.
- Responsibilities outside the public sector: This comprises defining which functions can be implemented by other stakeholders. This may include implementation through sub-contracting and, indeed, one of the challenges is to identify ways to collaborate with the private sector.

At national level, key institutions in the agricultural sector comprise the Ministries of Agriculture and Food Security, Irrigation and Water Development, Trade and Industry, Local Government and Rural Development, Natural Resources, Energy, and Environment; Development Planning and Cooperation, the Office of the President and Cabinet, Department of Nutrition, HIV and AIDS, and Office of the Directorate of Public Procurement. There are however unclear roles and responsibilities, weak implementation arrangements, and rigidities amongst these stakeholders hence the need to enhance coordination mechanisms so as to maximise synergies and complementarities. The MoAFS therefore plans institutional reform across the sector in response to the results of the core function analysis to ensure improved service delivery mechanism.

The ASWAp activities will be implemented by a range of Ministries (including Ministry of Industry and Trade, Ministry of Natural Resources, Energy and Environment), Local Assemblies, as well as civil society, farmer's organizations and private sector enterprises.

3.3.2 Weak Implementation and Management Capacities

There exist weak implementation and management capacities in the agricultural sector that pose significant challenges to the implementation agricultural programmes. The implementation of programmes is also hampered by shortage of skilled staff in the sector.

(a) MoAFS Capacity

The MoAFS has seven departments: Department of Crops; Department of Animal Health and Livestock Development; Department of Agricultural Extension Services; Department of Agricultural Research Services; Department of Land Resources and Conservation; Department of Fisheries; Department of Agricultural Planning Services, and Department of Administration and Support Services. In terms of human resources, the MoAFS has a total establishment of 13,408 posts in various skill levels. Table 8 shows the number of established posts by skills and operational levels. The current establishment suggests a top heavy and administratively bloated structure. Each Head Office post supports 5 posts at ADD and district levels. Similarly, in terms of skills, there are low ratios of number of technical personnel to administrative/support personnel. For instance, at Head Office, the ratio of administrative posts to technical is 1:1.05 implying that each technical post is matched by an administrative post. Such a low ratio is also evident at the district level. At ADD level, things are somewhat better with the ratio of administrative to technical staff of 1:3.5.

There are also problems of vacant posts within the MoAFS. For example, in 2009, about 31 per cent of the establishment of the MoAFS was vacant. Most of the vacancies exist at middle and operational levels of the MoAFS structure resulting in significant shortages of operational staff such as extension workers. This has created work over-loads and tremendous strain on existing staff which compromise on the quality of delivery of programmes and services. Some of the factors that have led to staff shortages include bureaucratic bottlenecks in the application of human resource policies, guidelines and procedures coupled with less attractive remuneration packages than those available in the private sector and non-governmental organizations (NGOs). Moreover, high staff turnover and inadequate availability of trained personnel on the labour market have over the years significantly worsened the vacancy situation within the MoAFS and the public sector. In the meantime, information on capacity development needs is often anecdotal and incomplete and requests for capacity building actions remain largely unsystematic resulting in marked deficiencies in key skills within the public sector.

Table 5: Current Establishment in the Ministry of Agriculture and Food Security

Grade and Skills	Headquarters	ADD	District	Total
<i>Grade</i>				
Senior	37	13	-	50
Middle	212	291	64	567
Operational	2,139	3,072	7,580	12,791
Total	2,388	3,376	7,644	13,408
<i>Skills</i>				
Technical	1,223	2,625	4,215	8,063
Administrative and Support Services	1,165	751	3,329	5,245
Total	2,388	3,376	7,644	13,408

Source: MoAFS Human Resources Department

Weak institutional, management and operational capacities within the agriculture sector are further reinforced by inadequate or lack of operational infrastructure and equipment and ineffective policy and technical systems and procedures. Ultimately, these constraints have contributed to weak and inadequate coordination and communication mechanisms among the various actors in the sector.

(b) Non-state Actors

The principal non-state actors are the farmers themselves who are the main beneficiaries of agricultural programmes. The main problem of smallholder farmers is that they are highly unorganised with very few incorporated cooperatives and associations in existence. As a result, smallholder farmers tend to have no or very little influence on policy developments and project activities that influence their environment.

Private firms working in agriculture and agribusiness are also key stakeholders, as well as potential beneficiaries. There have been very little linkages between farmers and private firms that provide various services to the agricultural sector. For instance, contract farming exists only in a few sectors and it covers an insignificant proportion of smallholder farmers. Additionally, there are many communities and groups (as well as schools and universities) who have significant capacity to play a more substantive role in fostering agricultural change in Malawi. These groups and communities often include local leaders who are influential in advising and guiding grassroots development and members for such groups often highly motivated.

3.3.3 Past and Ongoing Support to Institutional Development and Capacity Building

Despite having substantial government and donor-funded support towards capacity in the agriculture sector, there are still capacity gaps and institutional weaknesses. The problem with most of the previous institutional development and capacity building support has been lack of coordination and weak linkages with strategic sector objectives. Some of the on-going programmes that are being implemented include:

- *Public Service Capacity Development Programme*: with the objective of improved development management and this addresses capacity constraints across government, programme and project management, public financial management, conditions of service and work ethics, policy making, and the structure of the civil service.
- *Farm Income Diversification Programme (2010 – 2014)*: within the overall objective of improved rural livelihoods, this includes activities aimed at improved capacity in trade policy.
- *Irrigation, Rural Livelihoods and Agricultural Development Project (2006 – 2011)*: seeks to strengthen institutional capacity for irrigation development and management.
- *The ASWAP-SP (2008-2013)*: whose objective is to support the ASWAp, in particular Focus Area 1, and to strengthen the capacity of MoAFS in view of implementing a SWAp.

3.4 HIV/AIDS AND GENDER CHALLENGES

3.4.1 Gender, HIV/AIDS and Household Food and Income Security

Institutionally HIV/AIDS is having devastating effects on the agriculture sector. A study in the Central Region of Malawi (Shah et al., 2002) found a significant number of households suffering from chronic illness and unable to provide labour needed for agricultural production. Resources, especially cash, which could have been used to purchase agricultural inputs are used to pay for health care and funerals- further depressing production and leading to lower levels of household income and nutrition. As food security deteriorates, malnutrition increases. Low crop yields and the burden of medical and funeral expenses forced many of the households affected by chronic illness to sell produce in distress or to borrow. Households affected by chronic illness relied more on *ganyu* labour (off-farm casual work), which reduced further productivity on their own farms resulting to oversupply of casual labour hence low wages. Profitable (but typically labour and cash intensive) crops such as tobacco are replaced by low productivity, low input cassava and sweet potatoes. Land may have to be taken out of cultivation altogether as there may not be sufficient labour to prepare and plant it, even to low labour crops.

3.4.2 Gender, HIV/AIDS and Agricultural Research and Extension Services

The MoAFS is the largest provider of agricultural research and extension services to rural farmers in Malawi. The Ministry has reported that the number of staff has been reduced due to HIV/AIDS and its capacity to provide high quality research and extension services to farmers has been reduced. Other stakeholders that provide agricultural services such as microfinance and agro-input dealers have also been affected. These constraints indirectly contribute to food insecurity at household level. The reduction in numbers of staff and service providers makes it difficult for farmers to access services. In order to address these constraints, the Ministry is emphasizing on introduction of pluralistic extension services and promotion of lead farmers.

Support services to agriculture are strongly affected as skilled and experienced staff acquires the disease. The MoAFS alone reported losing 2275 staff from illness in the period 1990-2006. The civil society and private firms working in the agricultural sector have lost significant numbers of key professionals.

3.4.3 Other Gender Issues

There is an important link between gender and HIV/AIDS as woman and girls are particularly vulnerable. They are more likely to suffer physical abuse, including sexual abuse, than boys and men. Economically, they generally have lower levels of education and have difficulty in moving away from abusive situations. Women and girls are typically less aware of their human rights and less able to claim these rights. Women, who represent 90% of carers of PLWAs, are also nearly two thirds of the population affected by HIV/AIDS. Carriers of the virus are highly subject to discrimination and gender-based violence.

Women are disadvantaged relative to men in every sphere of activity as they are poorly protected by cultural and legal norms, typically less well educated, and are less numerate and literate than their male contemporaries. In the broader agricultural context, gender inequality is widespread. Female headed households are more likely to be food insecure than male headed ones. Access to, and control over, agricultural assets (including land, labour, and cash) is problematic for many women, leaving them with poorer availability of advice, loans, and inputs. Few are active participants in household decision making, and most are overburdened by the daily labour of cultivation, drawing water, cooking, and running the household. In this unequal situation, they may be coerced or forced into unsafe sexual activity. Woman, as the main labourers on the farm as well as the major carers, find their work load increasingly impossible if a family member becomes ill. Following the death of a spouse, a widow may lose her access to land and household resources, rendering her destitute and highly vulnerable.

3.4.4 ASWAp Actions on Gender, HIV and AIDS

The implementers of the ASWAp will therefore ensure that women and the youth have access to technologies, information, financial markets, participate in decision making processes, are not overburdened with labour, have access to agricultural resources and benefits, and that additional gender focal points are established to address gender issues in all departments of the ministry and implementation partners.

Although substantial progress has been made in addressing the AIDS pandemic, the key challenges remain those of reducing high risk behaviour, providing adequate nutrition for those taking Anti-retroviral drugs (ARVs), and accessing drugs to treat opportunistic infections. The ASWAp will, therefore, endeavour to address the challenges posed by the HIV/AIDS pandemic by implementing activities that will reduce high risk behaviour, provide adequate nutrition support services to those taking Anti-retroviral drugs, and improve access to drugs to treat opportunistic infections.

CHAPTER FOUR

ASWAP PRIORITY INVESTMENTS

4.1 FOCUS AREAS AND KEY SUPPORT SERVICES

The ASWAp will implement prioritized sub-programs based on key strategic objectives while recognizing the negative impact of the HIV/AIDS pandemic, gender disparities, climate change and environmental degradation on agricultural productivity. ASWAp has three Focus Areas namely: (i) Food Security and Risk Management; (ii) Commercial Agriculture, Agro-processing and Market Development; and (iii) Sustainable Agricultural Land and Water Management as shown in Figure 10. The three Focus Areas will be strengthened by two Key Support Service areas which are cross-cutting actions namely: (i) Technology Generation and Dissemination; and (ii) Institutional Strengthening and Capacity Building. The success of the ASWAp program will depend on services provided by the research and extension systems and on the capacity of the implementing institutions. Furthermore, considering the negative impacts of the HIV/AIDS pandemic and of gender disparity on agricultural productivity, these aspects will be mainstreamed as cross-cutting issues during ASWAp implementation. The implementation of ASWAp will be evidence-based thus; collection and use of reliable statistics and expansion of the agricultural information management system will be enhanced during the implementation.

The interrelationship between ASWAp Focus Areas, Key Support Services and Cross-cutting Issues is illustrated in Figure 10 while the actual focus areas and their components are summarized in Table 6.

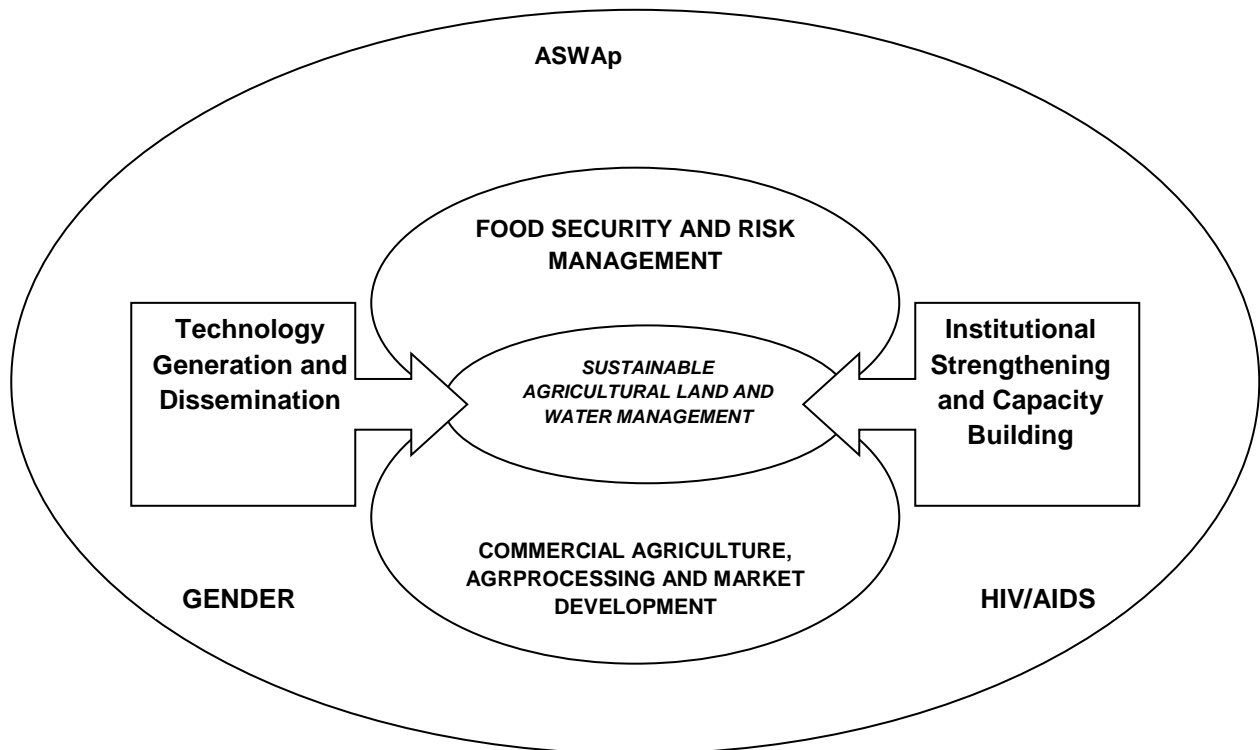


Figure 11: ASWAp Focus Areas, Support Services and Cross-cutting Issues

Table 6: ASWAp Focus Areas and Components

Focus Area	Components
1. Food Security and Risk Management	<ol style="list-style-type: none"> 1. <i>Maize self-sufficiency through increased maize productivity and reduced post harvest losses</i> 2. <i>Diversification of food production and dietary diversification for improved nutrition at household level with focus on Crops, Livestock, and Fisheries</i> 3. <i>Risk management for food stability at national level</i>
2. Commercial Agriculture, Agro-processing and Market Development	<ol style="list-style-type: none"> 1. <i>Agricultural exports of different high value commodities for increased revenue and income</i> 2. <i>Agro-processing mainly for value addition and import substitution</i> 3. <i>Market development for inputs and outputs through Public/private sector partnerships</i>
3. Sustainable Agricultural Land and Water Management	<ol style="list-style-type: none"> 1. <i>Sustainable agricultural land management</i> 2. <i>Sustainable agricultural water management and irrigation development</i>
Key Support Services	
1. Technology Generation and Dissemination	<ol style="list-style-type: none"> 1. <i>Results and market oriented research on priority technology needs and provision of technical and regulatory services</i> 2. <i>Efficient farmer-led extension and training services</i>
2. Institutional Strengthening and Capacity Building	<ol style="list-style-type: none"> 1. <i>Strengthening public management systems</i> 2. <i>Capacity building of the public and private sectors</i>
Cross-Cutting Issues	
<ol style="list-style-type: none"> 1. HIV prevention and AIDS impact mitigation 2. Gender equality and empowerment 	<ol style="list-style-type: none"> 1. <i>Mainstream gender and HIV AIDS</i>

A summary of strategic objectives, outcomes and main actions by focus area is shown in Appendix 1, while the detailed results framework including outcomes and outputs indicators and targets are shown in Appendices 3 and 4.

4.1.1 Focus Area 1: Food Security and Risk Management

Under this focus area, the ASWAp will pursue three components: (i) increasing maize productivity and reducing post-harvest losses; (ii) promoting diversification of food

production for improved nutrition at household and national levels; and (iii) promoting sustainable food availability at national level by risk management.

Component 1: Increase Maize Self-sufficiency

The country will attain maize self sufficiency by increasing maize productivity and assisting targeted vulnerable smallholder farmers with agricultural inputs through the targeted Input Subsidy Programme while improving its technical efficiency. This will be implemented with further investments in technology development and dissemination while focusing on appropriate fertilizer use, the production and distribution of improved seed, the use of good agricultural practices and on-farm storage technologies for both food and seed.

Actions:

- Implement the maize input (seed and fertilizer) subsidy programme in an equitable and gender sensitive way with efficiency enhancing strategies such as:
 - Contract farming arrangements;
 - Seasonal credits for emerging farmers;
 - Minimum commodity producer prices;
 - Organic farming and use of legumes;
 - Inputs for assets programmes; and
 - Improved farmer organisation for effective bulk buying of inputs and bulk selling of outputs
- Increase attention to efficient fertilizer use under the subsidy programme through differentiation in the fertilizer formula and extension advice to farmers on how best to use the fertilizer.
- Promote good maize agricultural practices with emphasis on the following:
 - Strengthening the existing tractor hire programmes through increased availability and accessibility;
 - Strengthening the existing oxen hire programmes through increased availability and accessibility; and
 - Time of planting, seed dressing, spacing, and weeding including use of herbicides.
 - Promotion of conservation agriculture
- Develop and register new improved varieties of maize, produce and multiply breeder and basic seed, certify commercial seed and multiply improved seed through smallholder farmers as well as through established seed firms.
- Promote improved on-farm storage technologies (food and seed).
- Promote improved on-farm storage facilities through construction of cement and metallic silos for seed and grain, training of local artisans to manufacture the silos and use of improved granaries at household level.
- Strengthen migratory pests monitoring and control

Component 2: Diversification of Food Production for improved Nutrition

The ASWAp will promote agricultural diversification by increasing productivity of high nutritive value crops, livestock and fish based on the comparative advantage of each agro-ecological zone. The specific actions are outlined below.

Actions:

- a) Production diversification

Crops (legumes, tubers, horticulture)

- Promote the production of quality legumes, Irish potatoes and vegetable seed for market distribution
- Promote development of fruit nurseries for production of high quality disease free planting materials
- Promote planting of fruit trees during Tree Planting season (Each household to plant at least 20 fruit trees comprising of at least mango, citrus, pawpaw and banana)
- Promote the multiplication and distribution of cassava cuttings and sweet potato vines of improved varieties.
- Include legume seed under the input subsidy programme
- Provide advisory services on good agricultural practices (GAP) and these ought to be linked to reliable gross margin analyses, regulatory activities and monitoring visits to maintain standards and quality.
- Develop and register new varieties
- Produce and multiply breeder seed.
- Promote integrated production and protection technologies (IPPT) for the horticultural crops through extension services to groups of farmers and traders.
- Conduct staff and farmer training on food budgeting (300 kg maize /person/yr; 50kg g/nuts + 50kgs Soya beans + 50kgs beans/person/year)
- Develop mother nurseries
- Facilitate the multiplication of foundation, breeders and basic seed, and promote multiplication and distribution of improved certified legume seed varieties for inclusion in the Input subsidy programme
- Facilitate preparation of policies, legislation and regulations governing the horticultural industry to ensure adherence to the required market standards and food safety (nurseries, field production and marketing standards).

Livestock (poultry, small stock, pig)

- Introduce improved, approved and registered breeds with superior characteristics
- Promote production of improved chicken feed based on locally available materials.
- Introduce productive dairy goat breeds that give at least two liters of milk per day as compared to the local goat which gives 0.25 to 0.5 liters of milk per day.

- Improve and increase capacity of existing regional hatcheries (Mikolongwe, Bwemba and Choma) for rapid multiplication of chickens and guinea fowls.
- Introduce productive breeds in the smallholder communities to improve the size and quality of goats and pigs.
- Improve the management system for pigs and rabbits under smallholder farmers
- Improve poultry vaccination services including the production and importation of sufficient vaccine doses.
- Increase the number of chickens and guinea fowls vaccinated against Newcastle disease at smallholder level
- Manufacture and distribute mini-hatcheries to groups of smallholder farmers or individuals at village level for chicken and guinea fowl multiplication.
- Promote goat re-stocking and transfer systems (farmer to farmer pass-on programmes) for meat and milk production.
- Improve vaccination services against Swine fever to stimulate production of pigs for meat.
- Disseminate skills and knowledge in the preparation, processing and utilization of rabbit meat.
- Intensify livestock frontline staff training
- Intensify farmer and staff training programs
- Intensify livestock group formation and support
- Monitor and certify quality of poultry feeds

Fish (aquaculture)

- Promote village level fish farming schemes comprising of four hectares of water surface area benefiting about thirty smallholders per location through construction of fish ponds
- Facilitate provision of fish fingerlings, fish feed and training of fingerling producers as well as fish feed producers

b) Dietary Diversification

Dietary Adequacy

- Promote consumption of high nutritive value foods on a regular basis with emphasis on alternative staple foods and variety of foods from all food groups
- Promote the Malawi six food groups approach to food consumption
- Develop and disseminate local recipes with emphasis on the multi-mix approach.
- Conduct demonstrations on processing and utilization of foods in a diversified diet

Dietary Quality for Vulnerable Groups

- Promote consumption of enriched foods in complementary feeding programmes and maternal nutrition and among people living with HIV and affected by AIDS (PLHA) through the use of soy beans, pigeon peas, and groundnut as key ingredients.
- Conduct demonstrations on preparation of enriched porridge (phala) to communities, Nutrition Rehabilitation Units (NRU) and Community Therapeutic Centers (CTC)

Nutrition education

- Develop and distribute Information Education and Communication (IEC) materials on consumption, processing, preparation and utilization of enriched foods including local foods
- Train extension workers on prevention of micronutrient deficiencies
- Conduct multi-media campaigns on dietary diversification, consumption of Vitamin A and Iron rich foods
- Conduct consumer education on fortified foods
- Train Extension staff (TOT – training of trainers) and Households in processing, preservation, storage and utilization of food.
- Conduct joint staff and farmer training with the Ministry of Women and Child Development and Local Government and promote coordinated approaches

Capacity building for nutritional programmes

- Fill vacant positions related to nutrition programmes in the agricultural sector.
- Train nutrition officers to higher academic and professional levels (Diploma, BSc, MSc, and PhD levels)
- Conduct short courses on nutrition for extension staff
- Conduct training for farming families on nutrition.
- Conduct orientation courses for newly recruited staff on nutrition policies and programmes
- Procure the equipment and facilities necessary for frontline staff (motor vehicles, motor bikes, bicycles, computers and food preparation equipment.)
- Establish and strengthen Public Private Partnerships (PPP) on nutrition programmes.
- Develop effective lobbying and advocacy strategies in nutrition at all levels.
- Strengthen nutrition surveillance systems in the agricultural sector
- Promote fruit tree planting on the annual tree planting season (Each household to plant at least 20 fruit trees i.e. mango, citrus, avocado pear, banana, apple for nutrition purposes).
- Facilitate local production of local and indigenous vegetables seed of high nutritive value vegetables.

- Facilitate importation of high quality seed of the recommended varieties of exotic vegetables.

Component 3: Risk Management for Food Stability at national level

The ASWAp will introduce a food stabilization mechanism at national level by improving the management of markets and climatic risks that create national food gaps, mainly for maize. The ASWAp will therefore invest in programmes that will improve the management of the national and regional silos and the Strategic Grain Reserve (SGR) to reduce grain storage losses and increase storage capacity at national level.

Actions:

- Promote innovative market-based risk management schemes, such as the crop weather related insurance products, a warehouse receipt system operated by the private sector, and commodity market insurance system.
- Develop capacity for wider use of the maize call option import contracts.
- Improve the weather forecast systems for rainfall and the early warning systems for floods and droughts.
- Develop community based storage systems and facilities for food and seed (village grain banks and improved granaries).
- Improve management of the SGR to ensure adequate stocks at national level
- Increase storage capacity at national level by building more regional silos and improving the capacity of the existing silos
- Promote planting of drought tolerant crops (cassava, millet and sorghum)
- Strengthen weather forecasting capability for agriculture
- Develop a weather related insurance product for maize ie. Rainfall index based early warning system; Macro and Micro-weather insurance systems
- Employ maize supply/price hedging strategy

4.1.2 Focus Area 2: Commercial Agriculture, Agro-processing & Market Development

The ASWAp will promote high value chains for which Malawi has a comparative advantage for export, import substitution and agro-processing development. The ASWAp has three sub programmes in this area: (i) promoting agricultural exports for improved balance of trade and income, (ii) Commercial agriculture and agro-processing for import substitution and domestic market development, and (iii) development of a public/private partnership to facilitate a nationwide system of profitable markets for agricultural inputs and outputs.

Component 1: Agricultural Exports for Improved Balance of Trade and Income

The ASWAp will increase the total value of agricultural exports through the exports of tobacco, sugar, tea, cotton, coffee, macadamia, chillies, paprika, soybeans, groundnuts, vegetables and fruits by increasing volumes and unit values of these agricultural export commodities.

Outcome 1: Increased volumes of exported commodities

Actions:

- Promote contract farming, out-grower schemes and farmers' organizations (cooperatives) including women and youth agricultural clubs for specific commodities or value chains for e.g. tobacco, cotton, sugar, tea, chillies, paprika, fruit nurseries, fruit orchards, vegetables etc.
- Distribute seed, fertiliser, and chemicals vouchers through the Farm Input Subsidy Programme.
- Strengthen farmers' organizations in agri-business management skills, planning, cost-benefit analysis, accounting, input and output handling, grading and packaging and price negotiations.
- For each commodity, promote dialogue and cooperation between value chain stakeholders including farmers' organizations, traders, processors, exporters, buyers and policy makers.
- Strengthen capacity of value chain players by sub-contracting private service providers to conduct this capacity-building.
- Promote agricultural exports through market research studies, export trade fairs and buyer and seller meetings.
- Promote producers organizations for specific commodity value chain
- Promote production, distribution and utilization of improved seed, chemicals and fertilizers.

Outcome 2: Increased unit value of agricultural exports by commodity.

Actions:

- Provide improved technologies to enhance output quality and cost-effectiveness in particular quality seed for tobacco and cotton, clonal tea bushes for smallholders, improved macadamia planting material and quality fruit tree seedlings.
- Improve compliance with market standards (grading, packaging, labelling) by providing training to value-chain stakeholders.
- Promote quality through compliance with sanitary and phytosanitary standards and improving the capacity of national laboratories to conduct tests on export samples.
- Increase provision of quality certification and regulatory services to enhance output quality.
- Procure laboratory equipment for analysis of soil, pesticides efficacy, cotton fiber, lint quality, and pesticide residues in food crops

Component 2: Commercial Agriculture and Agro-processing for value addition and Import Substitution

The ASWAp will promote increased commercial production of rice, fruits and vegetables, cassava, potatoes, paprika and chillies primarily for agro-processing. This sub-programme will also promote increased commercial dairy and beef production, as well as sustainable lake fishing for import substitution.

Outcome 1: Increased volumes of high value commodities for import substitution.

Actions:

- Provide research, extension and marketing support services for irrigated and rain fed commercial crop production (choice of marketable crop, adapted varieties, crop husbandry, irrigation technique, integrated production and protection practices)
- Strengthen technical, operational and management capacities for irrigation management including establishment of water user associations (WUA)
- For dairy production, import improved heifers, promote Artificial Insemination (AI) services or live bull services and improve fodder and pasture production from local materials
- Conduct preventive vaccination against animal diseases (foot and mouth, anthrax, black leg, lumpy skin disease) for beef production
- Rehabilitate dip tank infrastructure including provision of acaricides and strengthen technical and O&M capacities of users' groups for their management;
- Promote stall feeding and local production of livestock feed based on local formulations and materials for dairy and beef production
- Encourage adoption of appropriate on/off shore fishing practices, including developing area-specific fishery management plans for Lake Malawi.
- Facilitate production of improved fingerlings, fish feed and poultry feed .
- Promote formation of milk bulking groups and cooperatives for livestock.
- Provide the essential technical services required by beef and milk producers (AI service, live bull service, feed production, veterinary services)
- Increase production of animal feed and fodder
- Promote mini dairy processing and cooling facilities

Outcome 2: Increased unit value of commodities (crops, fish and livestock).

Actions:

- Promote group and individual small-scale agro-processing particularly for cassava (starch) horticultural products (fruit juices and jam, tomato paste etc) and oilseed crops for cooking oil (e.g. groundnuts)
- Set-up and expand market information systems in key markets and for key commodities;
- Build or rehabilitate market infrastructure and collection points in strategic locations for specific commodities;
- Provide support to small and medium scale agro-processors in preparing business plans and loan applications to the commercial banking sector, market information, linkages between buyers and suppliers;

- Develop financial leverage systems for private agri-business enterprises through the provision of matching grants system;
- Provide non-financial business services and capacity strengthening to small and medium scale agro-processors and traders (e.g. business plan, market information, linkages between suppliers and buyers)
- Promote utilization of agro-processing technologies
- Establish organized meat and egg markets

Component 3: Development of public/private partnerships to facilitate a nationwide system of profitable markets for agricultural inputs and outputs

The objective is to create accelerated and broad-based growth in the agricultural sector by combining traditional farmer knowledge, private sector expertise, and government investments and programmes into a coherent and productive programme.

ASWAp will facilitate, through dialogue with the relevant private sector associations, support to partnerships to facilitate the development of a nationwide system of outlets for agricultural inputs and purchasing arrangements for outputs. This will build on existing efforts to improve market access but, in particular, go beyond the basic agro-dealer concept to one in which agro-dealers form a component part of the technology dissemination and promotion chain. Through carefully focused farmer-led field investigations, farmers will be encouraged to test for themselves (with support from development agencies – both government and private) new livelihood options and to explore the markets for these options. Thus the poor will become empowered to demand the inputs that they need and become linked effectively to a domestic or export market in which they play a full role.

The Partners will jointly:

- design, coordinate and implement on-the-ground activities that improve efficiencies in the inputs and output markets and lead to broader growth and development of the agricultural sector, and,
- offer solutions to the Government on subsidy improvements to relieve financially burdensome problems in delivery/distribution
- provide an explicit statement of impacts being targeted, to achieve the strategy

Actions:

- Develop commodity based partnerships in the value chain involving all key players i.e. producers (farmers and processors), agro-input dealers, buyers, service providers (research, extension, training, information systems, financiers, marketing infrastructure) and policy makers (for legislation, regulations and standards)
- Ensure sustainable partnerships through strong linkages and effective dialogue backed by signed Memoranda of Understanding and Codes of Conduct
- Improve transaction efficiency along the value chain for both inputs and outputs, and reduce risk so as to encourage further private sector involvement (increasing agro-dealer cover, widening the base of input suppliers, banks etc.),

- Improve the efficiency of public investment, and the collateral investments being made by the private sector, NGOs and farmers.
- Empower farmers by mobilizing them into organized units such as cooperatives, farmers clubs or associations and through contract farming or out-grower schemes and training to impart skills.
- Ensure the poor get the most profitable inputs at the right time, and in quantities that they can afford.
- Improve farmer knowledge and choice regarding new technologies (enhance agro-dealer skills, implement farmer-based trials etc) as well as being informed on output market potentials and options.
- Establish and improve on effective communication and coordination mechanisms amongst government, donors, civil society organisations, and the private sector
- Enhance public sector investments to better leverage collateral for private sector investments to achieve longer term gains
- Develop a strategy for a partnership with key private sector actors that defines the objectives that must be shared by all partners, outline the structure of the Partnership, and indicate membership characteristics
- Determine roles and responsibilities and establish the approach and operational principles

4.1.3 Focus Area 3: Sustainable Agricultural Land and Water Management

Sustainable management of natural resources will enhance the productivity of both food and cash commodities and increase sustainability of output per unit of resource, mainly land and water, while protecting the environment. This focus area has two sub-programmes that will contribute towards sustainable land and water management, weather variability and climatic change.

Component 1: Sustainable Land Management

The land management programme will promote the dissemination and adoption of sustainable land management practices on agricultural land. The component of sustainable land management is aimed at providing conducive environment for achieving food security and also whole farm profitability and needs.

Actions

- Promote the use of conservation farming technologies that build soil fertility, prevent soil erosion and conserve rain water (contour ridging, application of manure, preparation of compost, minimum tillage, agro-forestry, box ridges, tractor ploughing to break the hard hoe pan, and use of herbicides as a labour saving technology.
- Increase area under sustainable land management.
- Finance planting material (mainly seeds) and other inputs mainly related to community nurseries for agro-forestry seedlings production including fruit tree seedlings.
- Promote community based dambo and water catchment area management and the prevention of river banks degradation.

- Subsidize inputs to raise forestry and fruit tree seedlings or buying of plants from commercial nurseries for farmers and village communities for planting on fragile or degraded land areas
- Promote labour saving technologies (land ploughing using hired tractor or own tractor, herbicides for weed management and crop protection agents)
- Promote management systems and technologies that protect fragile land (river banks, dambo areas, steep slopes or hilly areas, and water catchment areas)

Component 2: Sustainable Water Management and irrigation development

The ASWAp will promote the expansion of sustainable water management by improving utilization efficiency and increasing the area under irrigation for increased high value commodity production. The high value crops considered a priority include rice, paprika, chillies, green maize, vegetables (cabbage, onion, tomato, garlic, shallot, green beans, carrots, peas), and fruits (banana, pineapple, citrus, mango, strawberry, pawpaw).

The Greenbelt Initiative

Irrigation intensification will be carried out under the broad umbrella of the Greenbelt Initiative (GBI). The overall goal for GBI is to contribute towards the attainment of sustainable economic growth and development in line with the MGDS. The Initiative aims at reducing poverty, improving livelihood and sustainable food security at both household and national level through increased production and productivity of agricultural crops, livestock and fisheries.

The initiative will make use of the abundant fresh water resources present in the country lakes which cover over 21% of the country's territorial area. The lakes include (Malawi, Chirwa, Chiuta, and Malombe), perennial rivers (Shire, Songwe, North and South Rukulu, Bua, Dwangwa, Lingadzi, Lilongwe, and Ruo) and Lagoons (Chia and Bana). These water bodies offer potential to improve food and agricultural productivity.

Actions:

- Rehabilitate existing irrigation schemes and construct new ones to expand area under irrigation from 20,000 ha to 40,000 ha at national level.
- Provide research and extension services to farmers on appropriate irrigation and crop production techniques and systems.
- Establish gender sensitive Water User Associations (WUA) and strengthen their technical and operations and management capacities for sustainable irrigation (including farmers' participation in a revolving fund) and high value commodity production and marketing.
- Establish rainwater harvesting systems in the field and off-field. These systems include the construction of new dams constructed and the rehabilitation of existing dams, as well as small scale water harvesting systems for gardening.
- Promote catchment area management and protection by WUA and community afforestation - including establishment of fruit orchards.
- Improve the technical and management capacities of WUA
- Rehabilitate existing irrigation infrastructure in research stations

- Strengthen technical capacity for irrigation management

4.1.4 Key Support Services 1: Institutional Development and Capacity Building

Institutional development and capacity building of extension services and other agricultural institutions are critical factors in creating and fostering an enabling environment for sustainable development and growth of the agricultural sector. The existence of institutional structures with clear roles, responsibilities, linkages, capacities, and skills is a very essential pre-requisite in achieving the overall goals and objectives of the ASWAp. This component is cross-cutting in nature and will implement programs to address institutional and capacity constraints in the ASWAp.

The overall objective of the institutional development and capacity building program will be to create an enabling institutional capacity of key state and non-state stakeholders for the implementation and achievement of the ASWAp objectives.

Actions:

- Strengthen and improve institutional capacity (leadership and management) of key stakeholders (across institutions) to plan, implement and monitor the programme at Central and District level.
- Improve coordination and partnership mechanisms.
- Improve capacity to manage government and donor investments in agriculture.
- Develop and strengthen policies, systems, guidelines and procedures
- Develop and improve resource capacities of key institutions (adequate funding, motor vehicles, motor cycles, bicycles, computers, and other equipment and facilities).
- Facilitate the acquisition of additional transport means (motorbikes and bicycles and limited motor cars) to ensure that all frontline staff have transport to carry out their duties.
- Recruit additional extension workers to progressively fill the existing vacancies based on the establishment as reported by the human resources office (currently at 31 per cent vacancies).
- Construct and rehabilitate offices, institutional buildings, and institutional houses of extension workers and other offices.
- Develop Gender, HIV and AIDS analysis and mainstreaming skills at all levels beginning with focal points.
- Provide short-term and long term training to members of staff according to the training succession plan to build capacity for sustainable implementation of the ASWAp.
- Provide sufficient financing for the regular maintenance of transport means for front line extension and research staff.
- Provide training including Gender, HIV/AIDS training to frontline staff for orientation, upgrading and skills development.
- Improve agriculture sector planning, implementation, M&E, investment management, governance, and nutritional surveillance

- Establish an ASWAp secretariat to coordinate the activities of the ASWAp and provide linkage within the MoAFS and amongst key stakeholders in the agricultural sector
- Develop and strengthen public management systems such as planning, budgeting, monitoring, evaluation, financial management, human resources management, procurement
- Conduct a Core Function Analysis of the MoAFS to determine how the Ministry will manage its activities under the ASWAp
- Provide training needed to improve technical and administrative systems, skills development, strengthening partnership
- Establish and strengthen public/private partnerships for specific priority commodities
- Conduct orientation courses for newly recruited staff on policies and programmes
- Provision of training to frontline staff for orientation, upgrading and skills development
- Provision of training to frontline staff for orientation, upgrading and skills development
- Fill all critical vacant posts in the MOAFS and the agricultural sector as a whole
- Recruit the appropriate human resources needed to implement programmes effectively, and set in place the need capacity development programmes to ensure that there are properly trained people for future needs.

4.1.5 Key Support Services 2: Technology Generation & Dissemination

The most plausible way for increasing agricultural production in Malawi is by increasing crop and livestock productivity. The process of technology generation, adaptation, dissemination and adoption will be enhanced towards the achievement of results identified under the key focus areas.

The ASWAp will promote demand-driven as well as market- and industry-oriented research and extension systems, while targeting the comparative advantages of each commodity and agro-ecological zone.

Actions

- Supporting and intensifying applied research and extension programmes focused on priority ASWAp targets such as interventions in the pesticide research to contain and eliminate the Large Grain Borer (LGB) and intensification of research on Genetically Modified Foods.
- Increasing the capacities of the research and extension systems to respond to farmers' technology needs of all gender categories, by generating and disseminating appropriate technologies for sustainable agricultural productivity increases.
- Strengthening result-oriented gender sensitive research and extension activities and improving the relevance and responsiveness of services that farmers need.
- Provision of technical services such as AI service for dairy cattle, dip tanks, vaccines and vaccination services for livestock, seed certification services,

- sanitary and phytosanitary services, production and certification of foundation and basic seed and vegetative planting materials, development and monitoring of quality standards, soil analysis for site specific fertilizer recommendations, pesticide residue analysis for food safety and analysis of Aflatoxins in groundnuts and other food grains.
- Develop crop varieties that are high yielding, good quality, resistant to diseases and drought tolerant
 - Develop Good Agricultural Practices (GAP) i.e. Soil fertility, fertilizer and plant population management systems and integrated pest management
 - Develop labour saving technologies
 - Develop harvest and post harvest management systems including crop storage systems
 - Improve efficiency of the use of inputs (Seed , fertilizer and chemicals) by farmers
 - Breed or introduce livestock that are highly productive in meat, milk and egg production
 - Monitor production of livestock feeds and certify their quality
 - Develop value addition technologies to promote agro-processing initiatives
 - Provide technical services required by farmers i.e.dip tank fluids, vaccines for livestock; seed certification services; sanitary and phytosanitary services; production and certification of foundation and basic seed and vegetative planting materials; development and monitoring of quality standards; soil analysis for site specific fertilizer recommendations; pesticide residue analysis for food safety and analysis of Aflatoxins in groundnuts and other food grains.
 - Disseminate technologies on Good Agricultural Practices (GAP) to increase agricultural productivity i.e. choice of varieties and seed; management of soil fertility, fertilizers and plant population, time of planting and integrated pest management
 - Provide policy and regulatory support services
 - Promote the use of model villages, green belts, clusters and farmers cooperatives in the transfer of technologies
 - Train farmers on all aspects of GAP
 - Provide technical services required by farmers i.e. Artificial Insemination service for dairy cattle; dip tank management, vaccination services for livestock; distribution of vegetative planting materials; and monitoring of quality standards.

4.1.6 Cross-cutting issues

Gender and HIV/AIDS

The ASWAp will responds to the needs of women farmers, youth and people living with and affected by HIV by adopting a gender and HIV-responsive targeting strategy. Gender and HIV and AIDS issues will be mainstreamed in the ASWAp focus areas and key support services in order to reduce the gender disparities, prevent further spread of HIV and mitigate the negative impacts of AIDS on agricultural productivity and food and nutrition security.

Gender, HIV and AIDS will be mainstreamed at work place and in agricultural programs involving communities. Gender equity in the ASWAp will be attained through targeting at least 50% women farmers in all interventions whereas gender inequalities at work place will be attained among others by ensuring that of all staff trained at various levels 30% should be women.

The ASWAp will also respond to the needs of the youth, who will increasingly take on leadership roles in the community. ASWAp will endeavor to ensure that the voices of the youth are properly articulated into the development process. The ASWAp will also target support vulnerable groups for example People Living with HIV/AIDS and households keeping the chronically ill.

The following actions will be implemented to facilitate mainstreaming of gender, HIV and AIDS

Focus area 1: Food Security Nutrition and Risk Management

1. Develop mechanism for increasing the percentage of vulnerable women, OVCs, PLHIVs, FHHs and CHHs accessing production resources ie through FISP and user friendly technologies that reduces drudgery and increase agricultural production
2. Provide food supplements and agricultural inputs to staff living with HIV at the workplace.
3. Promote small stock animal production and fish farming for women, youth and PLHIV through pass-on schemes.

Focus Area 2: Commercial Agriculture, Agro-Processing and Market Development

1. Support women, youth and PLHIV on agricultural and non-agricultural income generating projects including business organization and management
2. Promote greater involvement of women in commercial farming.
3. Scale-up services on gender, HIV and AIDS to migrant workers and traders in rural farms, estates and rural market centers
4. Advocate for gender, HIV and AIDS mainstreaming in ASWAp planning, implementation, monitoring and budgeting processes
5. Design and implement affirmative action to increase the number of women in policy and decision making positions.
6. Promote self help projects for vulnerable women, youth and PLHIV

Focus Area 3: Sustainable Agricultural Land and Water Management

Promote adoption and scale-up appropriate agro-forestry, soil and land conservation practices amongst women, youth, and PLHIV

Support Area 1: Technology generation and dissemination

1. Institutionalize gender, HIV and AIDS responsive research in agriculture and fisheries
2. Design and disseminate gender, HIV and AIDS responsive agriculture and fisheries information, education and communication materials
3. Develop and strengthen existing training curricula and courses on gender, HIV and AIDS
4. Institutionalize gender, HIV and AIDS in ASWAp and ensure M & E systems are gender, HIV and AIDS sensitive

Actions:

1. Document, disseminate and share best practices on gender, HIV, AIDS food and nutrition security and natural resource management.
2. In collaboration with other stakeholders, develop and implement capacity building programmes for staff at all levels and farmers of all gender Conduct gender, HIV and AIDS audit for key institutions and programmes and recommend mainstreaming strategies.
3. Strengthen and establish where there is need gender, HIV and AIDS focal points and workplace committees with clear terms of reference in all subsectors, departments and institutions
4. Develop and implement awareness and advocacy programmes against agricultural property grabbing including land.
5. Institute workplace interventions to reduce stigma and discrimination and mitigate the impacts of gender disparities HIV and AIDS
6. Review agricultural related policies, programmes and projects to mainstream gender, HIV and AIDS.
7. Formulate a resource mobilization strategy for the Agriculture sector gender, HIV and AIDS strategy
8. Market gender, HIV and AIDS strategy to donors and stakeholders and monitor its implementation.
9. Establish networks and partnerships with all stakeholders and partners dealing with gender, HIV and AIDS in agriculture fisheries and natural resources sector
10. Establish and operationalise Technical Working group committees on gender, HIV and AIDS, food and nutrition security at all levels.
11. Institute and update database on gender, HIV and AIDS in Agriculture, food security and natural resources
12. Review and develop the agriculture sector Gender, HIV and AIDS strategy.

An essential component of any development planning is statistics. Reliable agricultural statistics help government and donors by informing budget and aid allocation decisions and by monitoring the effectiveness in use of finances and aid. MoAFS has a National Early Warning Unit for Food Security (NEWU) which is linked to the SADC umbrella body the Regional Early Warning Unit for food Security (REWU). In line with the CAADP plan, NEWU provides early warning information for disaster preparedness and mitigation. Through crop production estimates projections and weekly agricultural commodity price data, it is possible to furnish planners, policy and decision makers with

information on expected food shortages to enable advanced planning. The food balance sheet which provides useful information on food availability, food requirements and the resultant food surplus or deficit is an important tool for guiding decision making process in terms of need for distribution of food aid. Related to the domestic food gap analysis is vulnerability assessments conducted by the Malawi Vulnerability Assessment Committee (MVAC) with support from the SADC Regional Vulnerability Assessment Committee (RVAC). The Malawi Country STAT, linked to the international FAO data base, is a rich web based data bank for food, agricultural and natural resources statistics.

The ASWAp will use agricultural statistics for planning, monitoring and evaluation, policy formulation and early warning for food security. Agricultural statistics will be an essential feature of the ASWAp implementation arrangements. The agricultural statistics which will form the basis for M&E will be linked directly to the output targets of the ASWAp. The ASWAp framework has highlighted the inadequacy of regular surveys that provide essential information regarding changes that are occurring in the agricultural sector and at household level. ASWAp proposes that surveys should be funded regularly including the Annual Production Estimates (APES) sample survey which as will be seen later in the document is a key priority area in strengthening agricultural statistics.

Priority elements in the ASWAp are:

- **Strengthening Collaboration between NSO (National Statistics Office) and MoAFS.** A strategic plan has been developed by NSO and six institutions (including MoAFS) involved in the collection, analysis and reporting of official statistics. Strengthened collaboration between MoAFS and NSO in the production of agricultural statistics will improve accuracy and timeliness of agricultural statistics, standardise and harmonise concepts and methodologies for collecting data, reconcile discrepancies observed in MoAFS and NSO agricultural statistics, and improve stakeholder and user confidence in agricultural statistics.
- **Capacity building.** The ASWAp framework requires training programmes to be targeted at critical gaps in technical skills, one of which is agricultural statistics will enhance the capacity of the ministry to implement the agreed agenda. Institutional development and capacity building are cross cutting in nature and are a pre-requisite to the success of the ASWAp. The ASWAp framework capacity building arrangement has been categorised into short, medium and long term. In line with the foregoing, investing in training in agricultural statistics will directly assist in addressing the capacity gap identified in the ASWAp.
- **Enhanced survey capacity.** Surveys will be mounted or further improved in the following areas - Agricultural Production Estimates; Post harvest losses; Agriculture Market Information Systems (AMIS); cost of production and farm management surveys; Fish Catch Assessment Survey
- **Agriculture Management Information System.** In line with ASWAp concept to improve management information systems, the ministry will develop an AGMIS. This will be linked to, and enhance the value of, the Annual Agricultural Statistical Bulletin. The bulletin is a collection of various forms of agricultural statistics into one booklet for easy reference by users.

- **Area Sampling Frame.** To improve the validity and reliability of crop estimates, the Area Sampling Frame (ASF) methodology will be tested for estimating crop area and production.

4.2 ESTIMATED BUDGET FOR THE ASWAP

4.2.1 Estimated Budget

The budget has been derived from strategies and prioritised actions of the ASWAp. Costing of the ASWAp was based on unit cost measurement. The unit costs were derived from the current levels of the cost of the activities. It is assumed that the cost of the activities will remain the same for the duration of the current ASWAp implementation period. In other ways the current cost of activities will purchase the same amount of goods and services in the delivery of future targets of the ASWAp. However, if the cost of purchase of goods and services increases then reduced targets will be achieved with the same amount of money. Table 11 below presents the financial and budget requirements for the priority inputs to be delivered under ASWAp including the recurrent costs of delivering the services. The table presents the cost breakdown by focus area and components. The total ASWAp first phase budget is at US\$ **1,678,678,026** for the implementation of prioritised sector investments from July 2011 to June 2015. It has to be highlighted however that the Greenbelt initiative demands huge investments in the first phase of ASWAp implementation due to irrigation infrastructure designs and development.

Table 7: Summary budget for ASWAp by Focus Area (2011-2015)

	Focus Area/ Component	2011/12	2012/13	2013/14	2014/15	TOTAL
1	Food security and risk management	201,092,230	212,561,560	207,660,570	210,984,090	832,298,450
1.1	Maize self-sufficiency	162,457,200	162,791,500	163,127,750	163,464,000	651,840,450
1.2	Diversification and nutrition	36,061,280	39,588,810	41,361,570	43,601,340	160,613,000
1.3	Risk Management for Sustainable food availability	2,573,750	10,181,250	3,171,250	3,918,750	19,845,000
2	Commercial agriculture and market development	33,525,250	37,593,500	39,739,250	47,978,000	158,836,000
2.1	Agricultural export for improved balance of trade and income	8,632,000	10,082,500	11,170,000	11,957,500	41,842,000
2.2	Commercial production for import substitution and domestic market development	24,528,250	25,606,000	28,089,250	35,390,500	113,614,000
2.3	Input and output market development through Private public partnership	365,000	1,905,000	480,000	630,000	3,380,000
3	Sustainable land and water management	193,613,800	225,253,600	256,945,400	286,277,200	962,090,000
3.1	Sustainable agricultural land management	6,853,800	10,629,600	14,545,400	24,991,200	57,020,000

	Focus Area/ Component	2011/12	2012/13	2013/14	2014/15	TOTAL
3.2	Sustainable agricultural water management	186,760,000	214,624,000	242,400,000	261,286,000	905,070,000
4	Key support service: Technology generation and dissemination	24,696,825	28,155,850	28,856,075	29,881,600	111,590,350
4.1	Results and market oriented research and provision of technical and regulatory services	2,278,625	2,429,350	2,972,075	2,131,800	9,811,850
4.2	Efficient farmer-led extension and training services	22,418,200	25,726,500	25,884,000	27,749,800	101,778,500
5	Key support service: Institutional strengthening and capacity building	21,063,843	19,577,748	25,368,350	32,353,285	98,363,226
5.1	Strengthening public management systems	11,639,183	10,744,288	15,956,840	23,162,325	61,502,636
5.2	Capacity building of the public and private sector	9,424,660	8,833,460	9,411,510	9,190,960	36,860,590
6	Cross cutting issue:	5,335,903	6,528,634	7,658,590	8,976,872	28,500,000
6.1	Mainstreaming of gender and HIV AIDS	5,335,903	6,528,634	7,658,590	8,976,872	28,500,000
	TOTAL	479,327,851	529,670,892	566,228,236	616,451,047	2,191,678,026

CHAPTER FIVE

IMPLEMENTATION ARRANGEMENTS

5.1 PROGRAMME COORDINATION AND MANAGEMENT

The agricultural sector performance and effectiveness have in the past been weakened by multiple, uncoordinated donor and government financial support that has resulted in lack of coherence in priorities, inconsistencies in implementation, low government ownership, low critical mass of investments in key areas and therefore low impact of agricultural investments. It has also resulted in high transaction costs on behalf of the Government and generally has contributed to weaker government institutions.

The Government of Malawi has recognized these challenges and has recently embarked on defining a Development Assistance Strategy. This strategy seeks to “domesticate” commitments taken as part of the Paris Declaration on AID effectiveness in 2005 and confirms the government’s preference for budget support or pool funding arrangements for financial support to a government programme.

The ASWAp’s medium term goals include donor harmonization and alignment of assistance to agriculture. Harmonization is defined as better coordination between donor and government policies, strategies, implementation modalities and procedures. Alignment is defined as donors aligning on Government policies, strategies, priorities and procedures. In view of the institutional complexity of the sector and the size of the challenge, a gradual approach will be adopted by initially covering a set of priority actions, aimed at achieving MGDS priority targets, within which coordination among funding partners and public and private implementers will be enhanced. This will lead to a completely harmonized approach to investment in agriculture in the form of a sector wide programme.

5.1.1 Harmonization and Alignment Process

The process of harmonization and alignment of assistance to the agricultural sector is represented in figures 11 and 12. The large box represents the whole of the agricultural sector, while the thick line represents the ASWAp, a priority programme within the agricultural sector. Some on-going discrete projects fall within the scope of the ASWAp, as defined in the results framework and related priority areas, others fall outside. In an initial phase government and donors will be able to pool their additional funding to support the whole of the ASWAp and its priority programmes, or they can choose to earmark their additional funding to support a specific programme or even sub-programme of the ASWAp.

With on-going discrete projects/programmes being terminated or extended and new funding going to the pool, or at least being earmarked within the ASWAp framework, it

is expected that the ASWAp will gradually grow to a fully harmonized and aligned programme (see Figure 12). The focus areas/programmes could also gradually evolve towards a SWAp, covering a larger scope of investments within the agricultural sector.

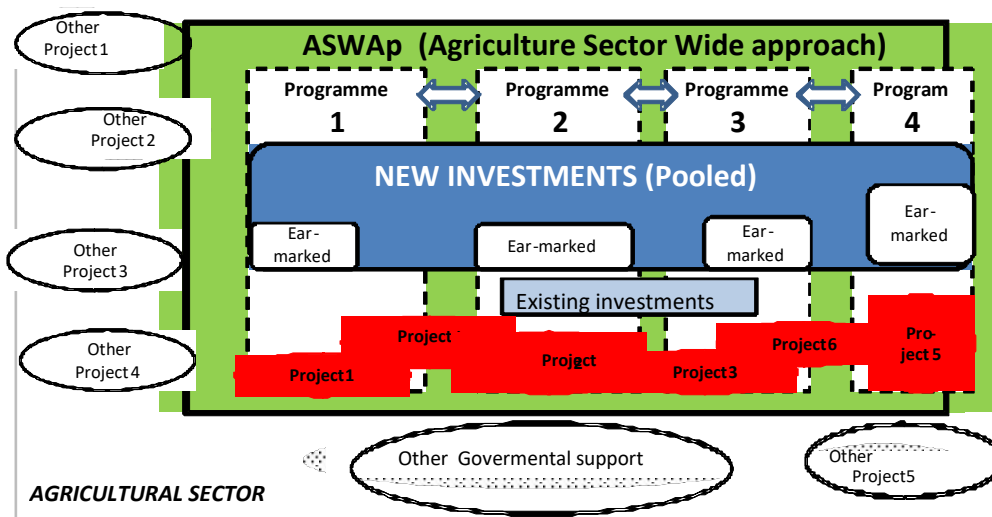


Figure 12: ASWAp (at start)

There will be need for a gradual transition from the current fragmented array of interventions towards: (i) enhanced coordination of major on-going investments and their link to future ones; (ii) a base pool funding for the programme which would allow some earmarking of funds, initially complemented by discrete funding of certain sub-programmes or specific actions outside the pool; (iii) agreement on a transition strategy for gradual harmonization between donors and government and alignment to government priorities, policies and procedures. Various government policies will also have to be harmonized so that there is policy coherence, consistency and stability. NGO discrete projects will continue to operate. Under the ASWAp, the objective will be to better coordinate and align them to ASWAp priorities.

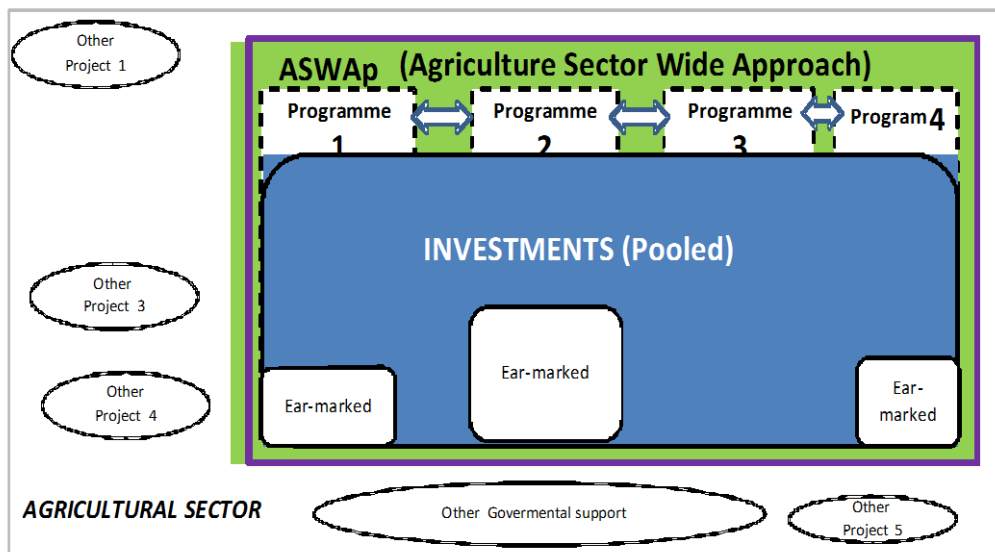


Figure 13: ASWAp (medium term)

The various steps for achieving this gradual approach to improved harmonization and alignment in the agricultural sector include:

1. Agreement on government priorities for the agricultural sector.
2. Enhancing coordination between on-going ‘projects’ and ‘new’ harmonized investments within the ASWAp framework.
3. Using government structures and planning and monitoring systems as a first choice to implement projects as compared to Project Implementation Units (PIUs).
4. Aligning with government systems and procedures regarding financial management, procurement and auditing which have to be assessed and strengthened.

Funding modalities: There are five financing modalities for the ASWAp namely: parallel funding (multiple donors for coordinated projects), discrete projects, co-funding (multiple donors for single project), pooled programmatic funding and pooled sectoral funding. Earmarked funds are provided by government (and sometimes managed by government), while discrete funds can be provided by other stakeholders and are not managed directly by government. Both operate with separate accounts outside the flow of funds mechanism for the pooled funding. Most on-going projects use discrete funding and in the short-term these on-going discrete projects will continue (Figure 12).

5.1.2 Malawi CAADP Compact

The Malawi CAADP Compact outlines the institutional, planning, budgeting, procurement, financial management, M&E and reporting arrangements related to a fully harmonized and aligned ASWAp framework. The Compact sets principles and ways of working amongst the public institutions, Development Partners, the Civil Society, Private Sector, and other actors, engaged in the agricultural and food security sectors. Furthermore, it is expected to guide the alignment of existing projects and programmes to the ASWAp framework and demands enhanced coordination in implementing prioritised sector investments. This Compact was signed by the Government of Malawi, representatives of the Development Partners, the Civil Society, Private Sector, representatives of the farmer organisations and farmers union on April 19, 2010.

It is planned that the ASWAp officially starts in the 2011/2012 financial year with some pooled funding, while allowing for earmarked and discrete funding within the ASWAp priority framework. However, all investments supporting the ASWAp priority framework will seek to coordinate programme planning, budgeting and M&E in relation to the ASWAp targets. In the meantime, government systems of procurement, financial management and accountability can be strengthened. As the Ministry of Agriculture and Food Security is implementing a fully-fledged Sector Wide Approach, it will simultaneously strengthen capacities to build trust in the system and ensure that donors join the pooled funding system.

5.1.3 Link between ASWAp and on-going programmes

The Farm Inputs Subsidy Programme (FISP) vs ASWAp - The Farm Inputs Subsidy Programme (FISP) implements Focus Area 1 (Food Security and risk management) of the ASWAp. The programme aims at increasing food security at household and national levels. Specifically, the programme aims at increasing the smallholder farmer access to improved farm inputs and adoption of improved technologies in maize production systems. Therefore, the FISP Coordination team will periodically report progress to the ASWAp secretariat.

The Greenbelt Initiative (GBI) - The Greenbelt Initiative (GBI) implements Focus Area 3 (Sustainable Agricultural Land and Water management) of the ASWAp. The overall objective for Greenbelt Initiative is to contribute towards the attainment of sustainable economic growth and development in line with the Malawi Growth and Development Strategy (MGDS). The Initiative aims at reducing poverty, improving livelihood and sustainable food security at both household and national level through increased production and productivity of agricultural crops, livestock and fisheries.

Specifically the Initiative aims at increasing production and productivity of crops, livestock and fisheries; increasing household incomes; agricultural exports and foreign exchange earnings; promoting diversification of crop and livestock enterprises; reducing rural-urban migration; and improving availability of quality water for both domestic and industrial use.

The GBI Secretariat will report progress on quarterly basis to the ASWAp secretariat. The ASWAp secretariat will report to the Principal Secretary and the Executive Management Committee for final decisions. In addition, a multi-sectoral GBI Management Body chaired by the Office of the President and Cabinet will give oversight to the implementation process and manage inter-sectoral and inter-institutional issues

5.1.4 ASWAp Organizational arrangements

The ASWAp will be delivered principally through the existing organisational structures of the public administration. This will help ensure sustainability and contribute to building capacity. In contrast, where possible, and in line with recent international commitments on development assistance, creating new and parallel implementation structures will be avoided. It is nonetheless recognized that there are new management and coordination demands to be accommodated in a programme-based approach and hence some temporary structures in the organisational arrangements are proposed. An organisation and management chart is shown in Figure 13 while the ASWAp secretariat organisation chart is shown in figure 14.

a) ASWAp Management Structure

The Ministry of Agriculture and Food Security (MoAFS) is the lead ministry for the ASWAp while other implementing and interested ministries will participate in making key decisions on the programme. At the central level, the line departments of the MoAFS and the Ministry of Irrigation and Water Development (MoWID) will have the principal responsibility for delivery of the programme. All programs/projects in the agriculture sector are under the umbrella of ASWAp framework, implement ASWAp priorities, and are required to regularly report progress to the ASWAp Secretariat. The ASWAp joint planning, monitoring and evaluation will holistically examine all sector investments. Figure 14 illustrates the management structure for implementation of the programme. As a sector investment plan, ASWAp implementation will take on board all key stakeholders. The roles and responsibilities of key stakeholders are outlined below:

Ministry of Irrigation and Water Development

The Ministry will principally be responsible for irrigation infrastructure development and rehabilitation.

Ministry of Local Government and Rural Development

The Ministry will principally be responsible for ensuring high quality, efficient, and effective implementation of ASWAp through their existing Governance Structures at all levels. The Ministry will work closely with other key stakeholders to ensure successful implementation of prioritized ASWAp interventions.

Ministry of Lands and Physical Planning

The Ministry will principally be responsible for ensuring that land issues are properly managed as the MoAFS intensifies agricultural activities.

Ministry of Natural Resources, Energy, and Environment

The Ministry will principally be responsible for ensuring that resources are used in a sustainable manner.

Ministry of Industry and Trade

The Ministry of Industry and Trade will principally be responsible for ensuring that there is a market available for the increased production. Figure 13 shows the various bodies involved in the implementation of the ASWAp.

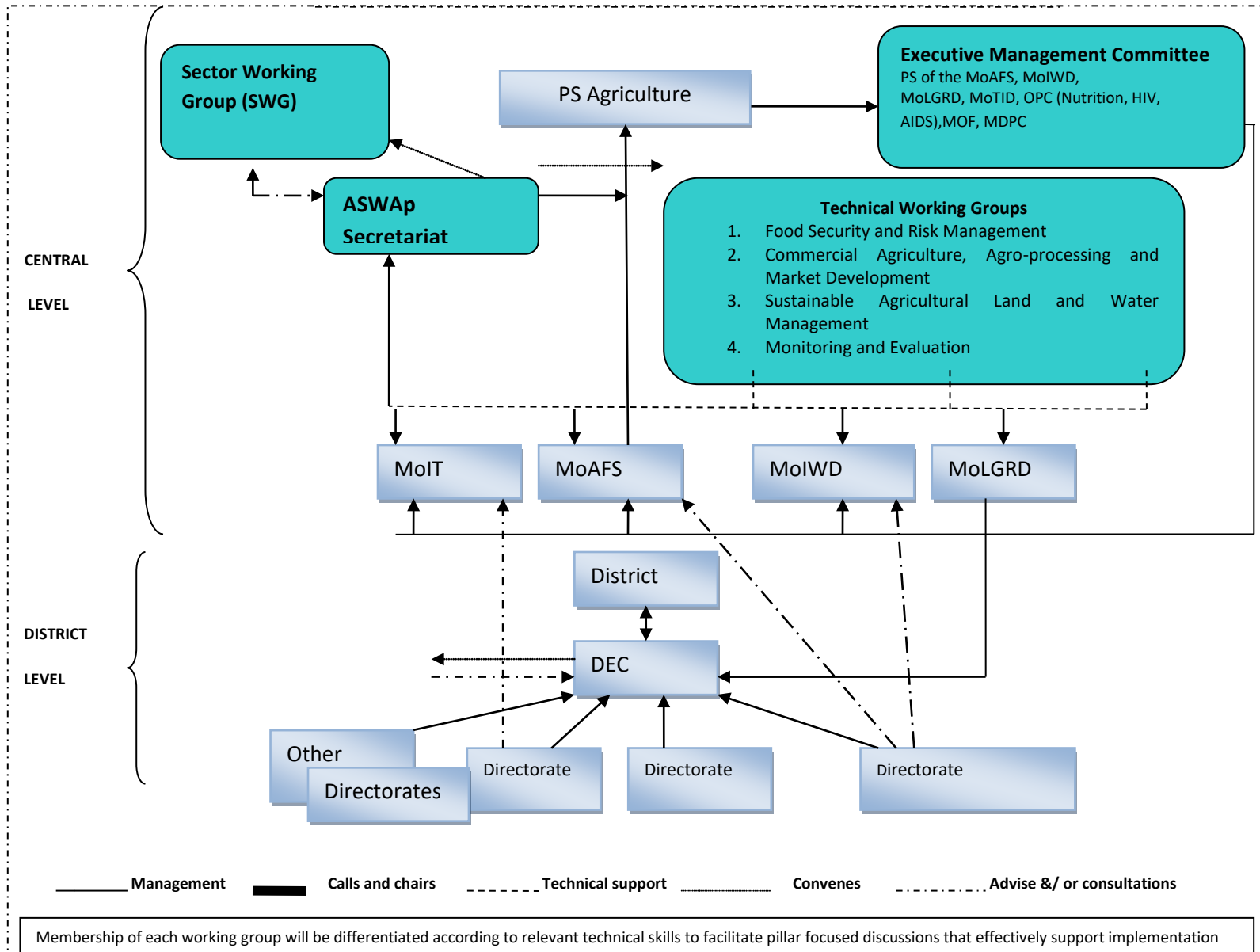


Figure 14: ASWAP Management Structure

At district level, formal responsibility for delivery rests with the District Commissioner (DC). However, in practice, this will be delegated to the Directorate for Agriculture, Natural Resources and Irrigation, and within this directorate to the District Agricultural Development Officers (DADO) and District Irrigation Officers (DIO).

The functions of the public sector structures and consultative bodies proposed for effective delivery of the ASWAp services are as follows:

Decision making will be the responsibility of an Executive Management Committee, chaired by the Principal Secretary (MoAFS), with membership from participating ministries (Irrigation & Water Development; Industry & Trade; and Local Government & Rural Development) and supporting ministries such as Development Planning & Cooperation; Finance, Gender; HIV/AIDS and Nutrition Department under the OPC.

Planning, monitoring and evaluation will be done by the District Councils, working in conjunction with the MoAFS (through the Agricultural Development Divisions) and the participating ministries;

Implementation will be principally by the District Councils with support from the Agricultural Development Divisions; and

Consultation with stakeholders (including farmers, the private sector, the development partners, civil society, non-governmental organisations and other non-state actors) will be organised by the MoAFS and the District Councils. Roles of the various structures are summarised below:

- Executive Management Committee: provides strategic direction and inter-ministerial coordination, oversees implementation of policy decisions, endorses annual workplans, and monitors progress.
- ASWAp Secretariat: consolidates work plans, liaises with development partners; convenes meetings of the Management Working Group, the Technical Working Group, Sector Working Groups, and the Executive Management Committee; ensures timely reporting; monitors adherence to the Malawi CAADP Compact; coordinates the annual progress review; and prepares proposals for the Executive Management Committee's endorsement.
- Sector Working Group: provides for dialogue between government, civil society, private sector, and development partners on financial management, planning, and monitoring & evaluation; and supports line departments in these areas.
- Technical Working Group: supports line departments on technical issues and methodologies for implementation of activities; advise the Principal Secretary, MoAFS on broad policy issues; and reflect informal feedback from stakeholders.
- District Executive Committee: reviews progress in implementation and represents stakeholders' views at district level.
- Task forces will be established to handle specific technical and management issues.

b) ASWAp Secretariat

The ASWAp Secretariat is intended to facilitate the strategic and operational processes of implementing the ASWAp. The Secretariat will be located in the Ministry of Agriculture and Food Security and the Coordinator will report directly to the Principal Secretary (PS). Terms of Reference for this secretariat are provided in Appendix 2.

The Secretariat is a lean structure comprising of three key positions (Figure 15), namely: ASWAp Coordinator supported by two deputies (one responsible for technical issues and the other management issues). The ASWAp Coordinator is responsible for ensuring that the Secretariat coordinates the work of various mechanisms and advises the PS directly. The Coordinator will also interact with development partners. The Deputy Coordinator (Technical) will be responsible for all technical operations, especially working with the three Technical Working Groups and backstopping line officers in the various departments and other implementing actors. The Deputy Coordinator (Management) will be responsible for operations and supporting initiatives for strengthening capacities for effective delivery of the ASWAp results. In addition to these three positions, there will be need to engage TAs in areas of M&E, Finance Management, Human Resources Management and Procurement which are critical in ensuring effective implementation of ASWAp activities. These will not be considered as part of the Secretariat personnel but instead work directly with respective departments and divisions as part of capacity building process. Initial support services positions may essentially include: Secretary (1) and Driver (1).

The ASWAp Secretariat is deliberately intended to be relatively small, comprising critical skills only. The skills required relate to leadership and operational responsibilities that ensure that the Secretariat plays its facilitation and backup role effectively and efficiently. The Secretariat will engage outside expertise with respect to the implementation of specific priority areas of intervention. This will be done through short term technical assistance arrangements based on demand and expressed gaps to support implementation of activities of ASWAp within the MoAFS and other participating Ministries.

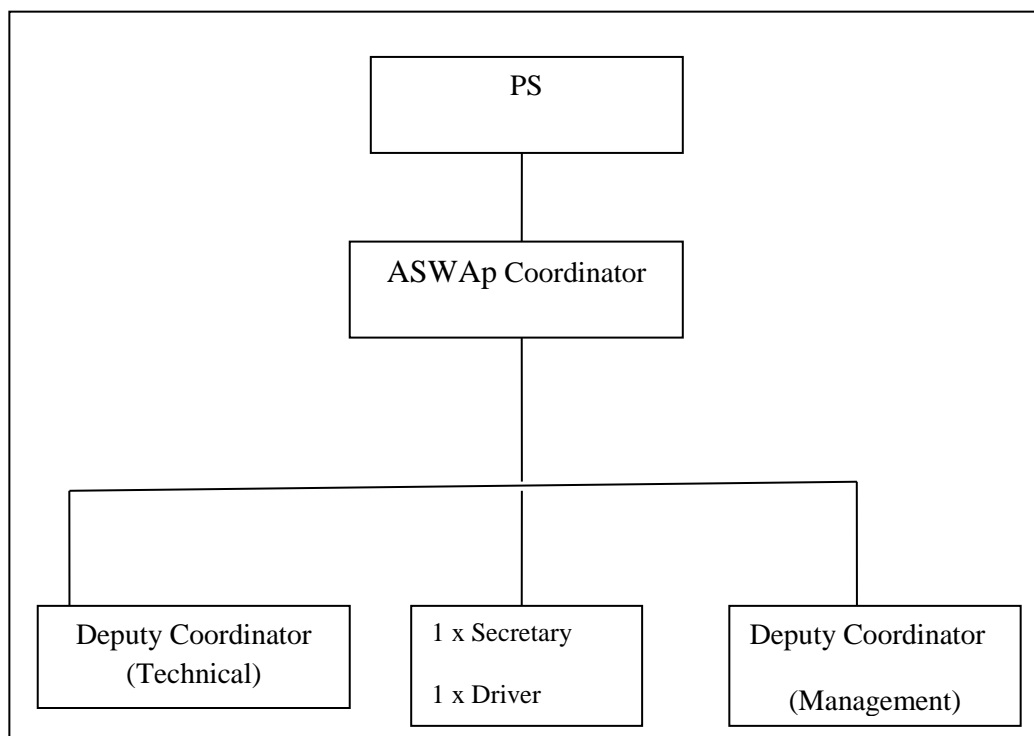


Figure 15: ASWAp Secretariat Organization Structure

5.1.5 Annual Preparation and Implementation Cycle

The ASWAp will align its planning, budgeting and monitoring cycle to the Government of Malawi's main cycle. The fiscal year goes from July to June while budget preparation extends from January to May. Budget ceilings are issued anytime between February and May before the budget goes to Parliament for approval in late June. The budget implementation report is sent at the same time as the next budget. The time line for planning, budgeting and commitments is outlined in Figure 16

The planning preparation will start at district level in January of the year preceding implementation (N-1). Districts will have until March to finalize their activities and budget based on disaggregated annual targets of selected output indicators from the results framework. The ADD will provide backstopping support to districts at least in the initial stages.

The districts will receive individual budget ceilings previously agreed by the Executive Management Committee (EMC), on proposals from the MoF. The Annual Work plan and Budget (AWPB) will be revised and sent to the District Commissioner (DC) and Agricultural Development Division (ADD) by early April. The ADD will consolidate the AWPBs from the various districts under its area and send the consolidated version to the Planning Department of the MoAFS between March April.

By Mid-May, the Planning Department will consolidate the AWPB for the Ministry of Agriculture and Food Security. The ASWAp secretariat will insert the budget elements from the other implementing ministries (MoIT, MoLGRD, MoIWD, Department of Climate Change and Meteorological Services and other key implementers) and finalize the overall AWPB for the ASWAp. This will be endorsed by the EMC before being sent to the MoF for inclusion in the budget in June.

All cost centres will receive funds according to the treasury plan and start implementing activities and spending their budget. All districts will report at least on a quarterly basis both on the use of funds and implementation of activities to the DC and the ADD. These will compile a report and submit it to Planning and the Finance departments at the Ministry Headquarters.

An annual implementation report will be prepared within 60 days of the end of the fiscal year. This report will be based on the planning for the previous year (N-1) and will explain which targets have been met, which ones have not and why. This report will form the basis for an Annual ASWAp Review (coinciding with the Partnership Forum) to be held in September that will make a performance assessment of the Ministries and the ASWAp during the previous year. The report will also contain financial and budget execution information. The Agriculture sector review should then feed into the MGDS review mechanism.

An external audit will be conducted shortly after accounts are closed in July. It is expected that this external audit will be ready by November. Based on the outcome of the Annual Review and on the Audit report, donors will make their commitments for the following year (N+1). This, along with GoM commitments and the amounts foreseen in the Mid-Term Expenditure Framework, will form the basis for calculating budget ceilings for the following fiscal year. These should be confirmed by March.

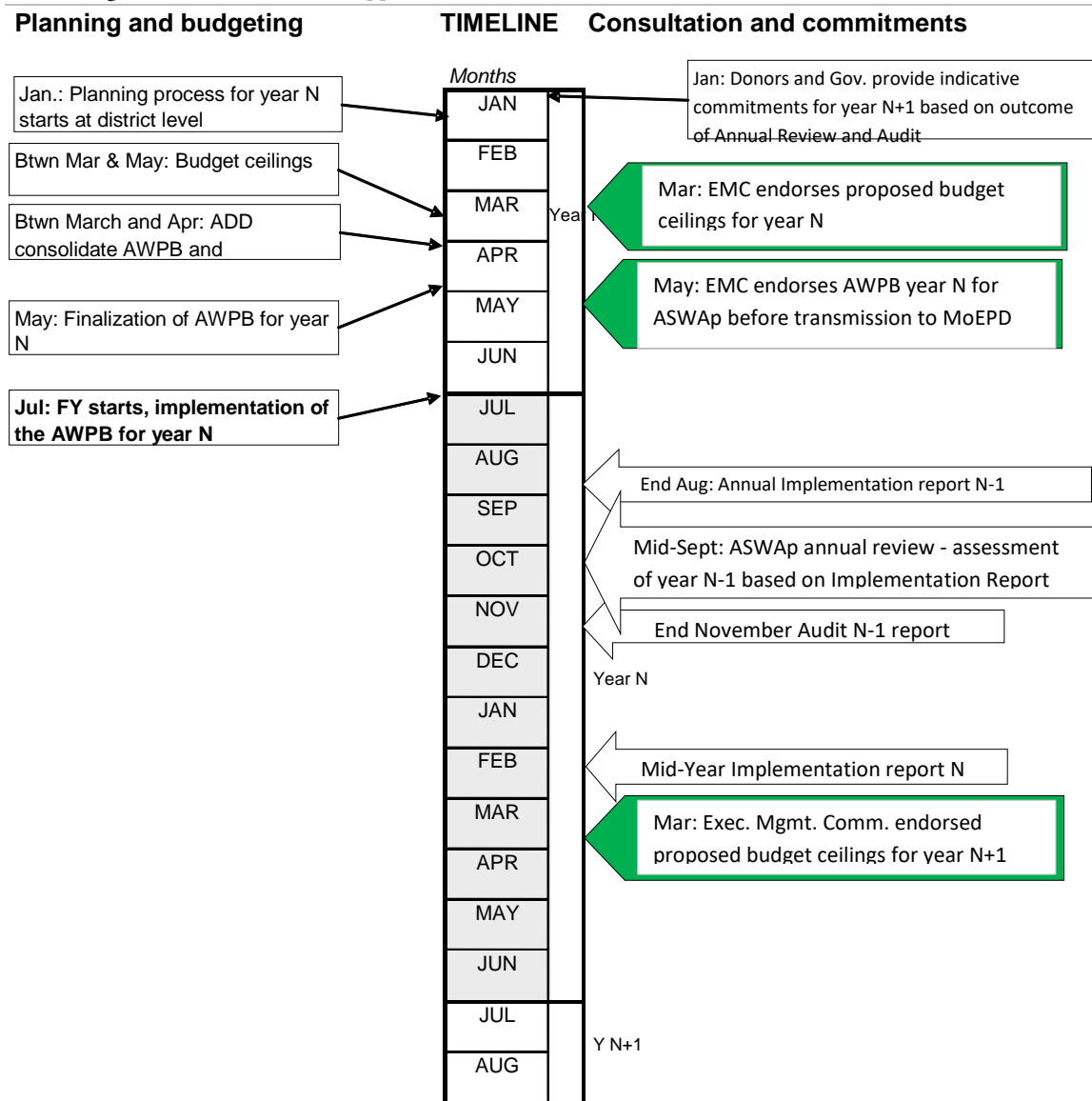


Figure 16: ASWAp timeline for Planning, Budgeting and Commitments

5.2 FUNDING AND PROCUREMENT ARRANGEMENTS

Development partners have agreed to provide harmonized support for that country's sectoral investment programme. The main objective of this harmonization effort is to shift from short term lending for many discrete development projects toward more coordinated financing of agreed investment programmes. A collateral commitment is to make greater use of government systems for project or programme management and administration.

The adoption of a sector wide approach (or SWAp) does not imply the adoption of any particular funding arrangements or financial management system. ASWAp is not a lending instrument. The government has expressed a preference for the receipt of basket or pooled funding. However, in practice it is anticipated there will be an evolutionary transition from project to programme funding. The speed of this transition will depend on the rules of different donors and evidence of the growing strength of government systems.

The pursuit of greater harmonization of funding and programming can be measured in terms of three objectives. First, as discussed above, a growing share of funding will be explicitly aligned with the Results Framework of the ASWAp investment programme. Second, a declining proportion of development partner funding is expected to be allocated to discrete projects, and a growing proportion will be allocated to ASWAp programmes in the form of pooled funding. Finally, a growing share of donor resources are expected to be declared on budget, be managed by government staff and be administered using the government's own financial management, procurement and human resource management systems. These principles are broadly outlined in the CAADP Compact and may be more specifically delineated in a Code of Conduct.

5.2.1 Transition from Projects to ASWAp Programme Support

Currently, the MoAFS directly or indirectly supervises more than 35 distinct donor projects. Only 14 of these projects were considered on budget in 2010/11. In the immediate future, the projects which are on-budget will be identified and thus within the investment portfolio of the ASWAp. Related efforts are needed for projects linked with the ASWAp but administered under the auspices of other Ministries in government.

There will remain a limited number of agricultural projects funded by development partners which are not considered on-budget because these are implemented by public or private non-governmental entities (civil society organizations, CGIAR centres, farmer unions and agri-business). While these may be considered as part of the ASWAp, insofar they contribute to the Results Framework, they will not be included in the ASWAp budget plan.

As experience is gained, efforts will be made to clarify the contributions of civil society organizations, non-governmental agencies and the private sector to the ASWAp. NGOs will be asked to submit work plans to the ASWAp Secretariat which highlight the contributions of their programming to specific components of the ASWAp. The methods for improving coordination of these investments with government programmes will be explored. Similarly, efforts will be made to categorize the contributions of the private sector to specific components of the ASWAp Results Framework.

5.2.2 Funding Modalities

The ASWAp will be implemented using various funding modalities that will be mutually agreed upon between the Government of Malawi and Collaborating Development Partners. Again, the major objective is to improve the harmonization of investment efforts in support of the agreed development programme. In principle, the objective is to shift from discrete project funding toward pooled sectoral funding in the pursuit of an agreed set of performance indicators representing major outcomes or sectoral results. In practice, funding modalities chosen will depend on the rules guiding commitments of individual development partners, the experience gained in moving from project to programme funding, and the proven strength of government systems.

In this context, it is possible to approximately characterize five types of funding modality (Table 8) though the distinctions between these classes may be subject to negotiation on a case by case basis. In any case funding modalities will be further detailed in the Memorandum of Understanding

Table 8: Summary of Main ASWAp Funding Modalities

Type	In ASWAp (on plan)	On Budget	Use of government admin systems	Government leads implementation	Use of ASWAp performance indicators
Discrete projects	Y/N	Y/N	Y/N	Y/N	Y/N
Parallel funding (multiple donors for coordinated projects)	Y	Y/N	Y/N	Y/N	Y/N
Co-funding (multiple donors for single project)	Y	Y	Y	Y	Y
Pooled programmatic funding	Y	Y	Y	Y	Y
Pooled sectoral funding	Y	Y	Y	Y	Y

Discrete Projects

Most funding for agricultural sector activities currently takes the form of discrete funding for specific agreed workplans with associated budgets. Often, the implementation of such projects is led by a Project Implementation Unit (PIU) specifically hired for the purposes of project management and administration. This PIU may or may not be under government supervision. By the end of 2011, all parties are agreed that there will be no more PIUs for projects based on contracts signed with government. With more immediate effect, it is anticipated that all new agricultural projects will highlight what components, and component activities in the ASWAp investment plan are being supported. In effect, all ASWAp related project commitments must be 'on plan'. If a discrete project is not identifiable with a component part of the national ASWAp workplan, this will not be considered a contribution to the ASWAp.

Most discretely funded projects are expected to start to use government systems for project management and implementation. They are expected to adopt ASWAp performance indicators in their logframes or results frameworks. They are expected to be identified as on-budget, with a schedule of disbursement which can be tracked in relation to national budgets.

A small number of discretely funded projects may be considered part of the ASWAp workplan, but implemented by non-governmental agencies. These would be considered 'off-budget' for the purposes of national planning. However, the adoption of ASWAp linked performance indicators would still be encouraged.

Parallel Funding

A major step toward harmonization can be made by shifting from entirely distinct project funding to the funding of closely linked workplans operating in parallel to one another. For example, there may be multiple discrete project investments in support of the expansion of small-scale irrigation in the country. In this case, the project workplans would be identified with component activities within the ASWAp investment plan, and efforts would be made to coordinate these investments through sharing of workplans, sharing of implementation support missions and the pursuit of common performance indicators. If the project is on-budget, this will be implemented by government agencies using the government's own financial management and procurement systems. However, it is again possible that a component project running in parallel with related commitments may be run by a non-government agency outside of government systems.

Co-Funding

Co-funding of project commitments represents a third step toward harmonization of commitment. This involves the commitment of multiple donors to a single, common workplan and budget. One example of this is the Agricultural Development Programme Support Project (ADP-SP) which has a single workplan and budget with complementary contributions from the World Bank, the Global Environment Facility and the Kingdom of Norway. Again, the expectation is that this project workplan would be identifiable within the overall ASWAp investment plan. In addition, these commitments are expected to be on-budget, and to make full use of government administrative and management systems. The workplan should target the pursuit of identified ASWAp performance indicators.

Pooled Programme Funding

Development partners may also agree to allocate pooled funding to programmes of the ASWAp. In this case, funding is committed to a more generic set of activities defined by government teams leading the implementation of larger components of the ASWAp. For example, several donors may jointly commit funding toward the implementation of the Farm Input Subsidy Programme. This commitment would be on-budget and would make full use of government systems. It would be implemented by the budget, and to the limits acceptable to donors it would be implemented using government financial management and procurement rules. The pooled funding commitment would be governed by a Joint Financing Agreement signed by multiple donors.

Pooled Sectoral Funding

Ultimately, some donors may agree to provide pooled funding for the overall ASWAp investment plan in a similar manner to their current programme of national budget support. In effect, this would be an earmark of a component of national budget support to the agricultural sector. This would obviously be on-budget, make full use of government systems and be subject to review using agreed ASWAp performance indicators.

Financial Arrangements for Pooled Funding

Donors will disburse their funds into the Forex account which are then transferred into the withholding account and converted into local currency. The funds thereafter will go through Treasury to the implementing agency which is the Ministry of Agriculture and Food Security (MoAFS) (Figure 17). Upon the authorisation of the MoAFS, Treasury will disburse funds directly to the district. The implementing sectors at Central level shall access their funds through the Ministry of Agriculture and Food Security. Their budgets shall be included in the MoAFS vote and will access their funds through the same Ministry on monthly/quarterly basis in accordance with their work-plans and budgets. The following steps outline the pooled funding modality Table 13):

- Collaborating partners will deposit funds in a Forex account (in USD) based at the Central Bank of Malawi (the Ministry of Finance is the signatory) on a quarterly basis and based upon an agreed disbursement plan linked to the ASWAp treasury plan;
- The funds shall be converted into Malawi Kwacha and transferred into the withholding account. The balance of the Forex account shall transit from one fiscal year to the next one.
- The implementing sectors at Central level shall access their funds through the Ministry of Agriculture and Food Security. Their budgets shall be included in the MoAFS vote.
- Districts are expected to open ASWAp operating accounts for themselves (one per district) to avoid fungibility of ASWAp resources with resources for other normal district programmes. This will ensure that there is proper use and accountability of the ASWAp resources.

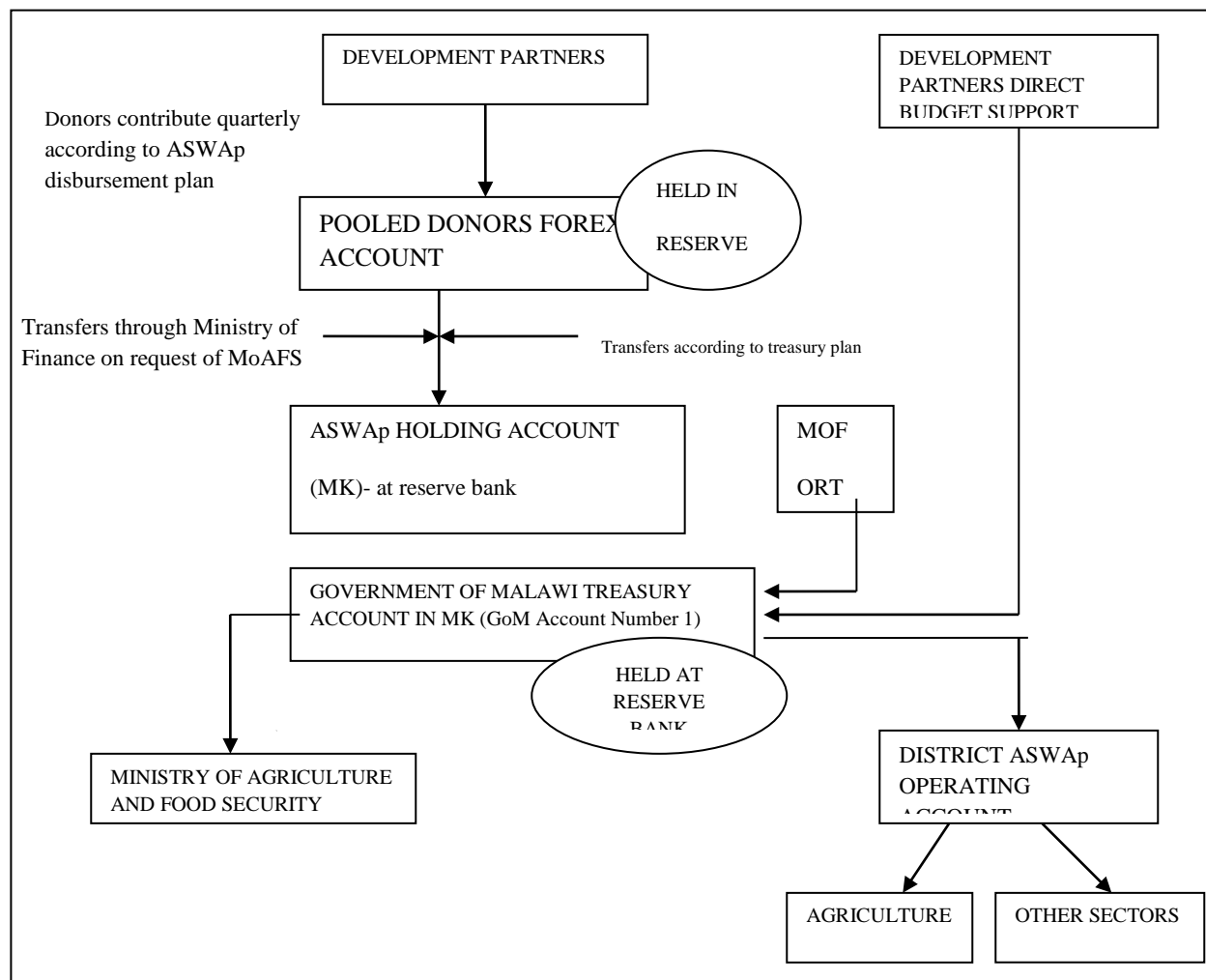


Figure 17: ASWAp Flow of Funds Mechanism

5.2.3 Annual Work-plans and Budgets (AWPB) for both Recurrent and Development Funds

The pursuit of harmonization begins with the contributions of development partners to the funding and implementation of the national investment plan. In the initial stages, these contributions may only be defined in generic terms as commitments to Focal Areas and Components of the overall ASWAp. However, for harmonization to work in practice, more detailed discussions will be needed to clarify how project and programme workplans are linked into the overall ASWAp workplan and budget.

- The ASWAp Secretariat will prepare/consolidate the AWPB that will be discussed and agreed upon with ASWAp collaborating partners, and included in the main budget document of the GoM.
- The main basis for the AWPB will be the result framework that will lay out the main actions and their corresponding targets for the year in question.

- The ASWAp Secretariat will prepare/consolidate an associated annual procurement plan which details the contributions of government and development partners to the ASWAp investment programme.
- The ASWAp Secretariat will prepare/consolidate an associated annual staff development plan which details the contributions of government and development partners to the ASWAp investment programme.
- The ASWAp Secretariat will prepare/consolidate an associated technical assistance plan which details the contributions of government and development partners to the ASWAp investment programme.
- The ASWAp Secretariat will prepare/consolidate an associated annual technical progress and performance report on the ASWAp summarizing major accomplishments and the status of achievement of key performance indicators.

5.2.4 ASWAp Financial Management

The ASWAp Financial Management will be characterized by the principles of accountability and transparency at each level of the implementation process. Achieving these objectives will require an efficient accounting system that is capable of providing management with accurate and timely expenditure reports and other financial information. In this regard, Government of Malawi and Collaborating Partners will be committed to ensure that:

- The Government Public Financial Management Act (2003) Public Audit Act (2003), Public Procurement Act (2003), the Treasury Instructions and Desk instructions guide all financial matters for the implementation of the ASWAp;
- The MoAFS and other participating partners maintain adequate financial management systems to reflect expenditure transactions and assets financed from the Programme of work. This system will ensure that the MoAFS and participating institutions produce timely, relevant and reliable financial information for planning, budgeting and implementation of the Programme of work.
- The MoAFS maintains implementation of a computerized accounting system which can produce accurate and timely financial management information using the Accounting General System called IFMIS (Integrated Financial Management Information System).
- Technical Assistants are recruited to assist the MoAFS headquarters, departments, districts, and other implementing partners to enhance the implementation of the Integrated Financial Management Information System (IFMIS) and improve management, accounting, cash management, financial accounting, audit, procurement and asset management.
- Any participating entity in the implementation of the ASWAp provides monthly financial statements. These statements will classify, analyze and report data covering income and expenditures from all sources of funding in accordance with Ministry of Finance requirements and the needs of the AWPB of the ASWAp. The ASWAp annual consolidated financial statements based on the ASWAp work programme will be submitted to the MoF.

- The ASWAp secretariat submits a mid-year Programme review Report to the Executive Management Committee which includes financial accounts of the implementation of the Programme of work by 28th February. An annual programme implementation report will be prepared by 31st August, covering the previous fiscal year. The format of this report will be agreed upon between the Government and ASWAp donors.
- The Auditor-General- carries out a mid-year Financial Audit for pooled funding programmes. For earmarked and discrete funding programmes, a private audit firm under the auspices of Auditor-General will carry out the audits. This audit will cover the first six months of each fiscal year of the government of Malawi (July-December), and an Annual Consolidated Financial Audit at the end of each fiscal year (July-June).
- The Government of Malawi ensures that its systems within the Agricultural and Food Security sector have robust levels of internal controls. This will require the establishment of internal audit function, independence of accounting functions, separation of initiation and authorization of transactions, and recording and custody of assets.

In this context it is expected that the Ministry of Finance will release the funds to all the cost centres (Ministry central level, ADD and District) upon request of the MoAFS linked to a disbursement plan, in a timely manner in accordance with the agreed disbursement plan and IFMIS procedures. Performance and expenditure reporting will be done by each cost centre in the agreed reporting formats. Accounting and financial management reports will be prepared in line with existing government procedures to be discussed and agreed with ASWAp donors.

In line with previous recommendations (2000 Public Expenditure Review report), the ASWAp shall increase funding to districts and other lower level establishments to a ratio between headquarters and districts of at least 40 percent and 60 percent respectively. However, this shall exclude funds for implementing complex programmes which are better managed centrally such as the subsidy programme and the Human Resource Development Plans.

5.2.5 District Level

At district level, ASWAp funds will be disbursed directly from Treasury to the districts. These shall be required to open an ASWAp operating account at a Commercial Bank in their respective districts. The funds shall be disbursed on monthly/quarterly basis in line with the proposed AWPB.

The District Agricultural Development Officer (DADO) will be the custodian of this account who ensures that implementation takes on board all other key stakeholders such as other public and civil society organisations. Each ASWAp implementing sub-sector shall be required to submit their plans of action for the month and payment requests to the Director of Finance (DoF) at the District level through the DADOs office.

The DoF will be responsible for compiling monthly expenditure returns for the ASWAp. The office of the DADO will therefore submit the agriculture district reports to the Ministry of Agriculture and Food Security headquarters who in turn will submit the consolidated report to the Accountant General. Copies of the national report shall also be circulated to other ASWAp implementing Ministries, donors and relevant stakeholders. In the spirit of decentralization, the ADDs shall be

responsible for providing backstopping services and policy direction in the management of ASWAp funds. In order for this role to be effectively implemented there is need to build capacity at both ADD and district levels with the provision of adequate staffing in the accounts sections at all levels..

5.2.6 Procurement

The Government of Malawi and collaborating partners will agree that the principles underpinning public procurement within the ASWAp will be: transparency, efficiency, accountability, fair opportunity to all bidders, prevention of fraud and other malpractices, and promotion of local capacity.

Government and collaborating partners recognize that current Government procurement systems, practices, procedures and staff capacity will require further development and strengthening in order to ensure proper management of procurement function in accordance with the above principles.

Prior to ASWAp initial draft, a Country Procurement Assessment Report by the World Bank concluded that:

- The Office of the Director of Public Procurement (ODPP) - a new national procurement regulatory body, established by the 2003 Public Procurement Act - is not yet fully staffed and made operational as planned.
- Standard Tender and Procurement Documents are in the process of being drafted.
- Specific documents for the Agricultural Sector will also have to be developed.
- There is a severe national shortage of trained procurement staff to which the MoAFS is no exception.
- Specialized Procurement Units (SPUs), as stipulated in the Public Procurement Act 2003, are not operational.

However, since the publication of the World Bank report, Malawi has made progress in a number of areas identified by that report. For example, the office of the ODPP has been established, staffed with qualified procurement specialists and fully operational. Furthermore, there are established procurement units in different ministries supported by procurement specialists as exemplified by the MoAFS. The Country has also intensified training of officers in procurement.

In this context, the World Bank procedures for International Competitive Bidding will only apply for the first phase of ASWAp implementation to allow Government of Malawi and MoAFS procurement systems to become fully and effectively operational. Each cost centre at national or district level will establish an internal procurement committee. Each cost centre should have at least one procurement specialist, or at least an accountant trained in procurement matters.

5.3 PLANNING, MONITORING AND EVALUATION

The ASWAp will be implemented mainly by the Ministry of Agriculture and Food Security (MoAFS) headquarters and by districts. Using and strengthening Government planning, monitoring and evaluation systems will be an essential feature of the ASWAp implementation arrangements.

This implies major changes from the present situation characterized by a fragmentation of donor and non-government support to the sector, mainly in the form of multiple independent projects. Most of

the larger projects funded by donors are implemented by the MoAFS usually through Project Implementation Units (PIUs), while some are implemented by the Ministry of Irrigation and Water Development (funded by ADB) and others by the Ministry of Local Government and Rural Development (funded by IFAD).

In moving towards a prioritized annual work plan and budget which details activities to be implemented by the districts, ADDs, and departments of the MoAFS, MoIWD and MoTPSD, NGOs, and Civil Society Organisations, there will be a need to harmonise planning, monitoring, evaluation and reporting systems and procedures. Both planning and M&E will be linked directly to the output targets of the ASWAp.

5.3.1 Results Framework

The ASWAp results framework will provide a clear picture of national priorities to be the basis for planning at all levels. It will also be the basis for monitoring and evaluating the ASWAp. The Annual Work Plan and Budget (AWPB) will be established on the basis of the results framework and be referred to the various outputs and their targets. The structure of the AWPB will follow the programmatic approach as articulated in the various focal areas and sub-programmes.

Output indicator targets will need to be disaggregated at district and ADD levels to allow activity planning and budgeting within the ASWAp framework. For the on-going projects, there is need to realign to the ASWAp framework and utilise the ASWAp M&E framework. The district AWPB will be prepared in line with the identified priorities in the ASWAp framework. The eventual ASWAp priorities shall be identified in a participatory manner during the review process.

The results of the ASWAp reviews will support existing initiatives in planning and monitoring such as the Annual Review of the MGDS implementation, the Integrated Financial Management System (IFMIS) and the OPC-led capacity assessment to be done at all levels and sectors for the common services systems and staff. The districts will prepare and submit progress reports to the ADDs based on their AWPB for onward submission to the ASWAp secretariat. Annual implementation reports will be compiled by the ASWAp secretariat based on submissions from the various ADDs. The format for these reports will be based on outputs and targets as provided for in the AWPB and the results framework. This will ensure that there is a link between the planning document (AWPB) and the monitoring reports.

5.3.2 Responsibilities

The responsibility of the Planning Department will be to propose budget ceilings for the various departments, ADDs and districts based on the budget ceiling provided by the MoF and confirmed by the Executive Management Committee. The distribution of the ceilings across cost-centres will be based on the outputs of the ASWAp programme (results framework), articulated by cost-centre wherever possible

Each Department, ADD, and district will prepare its own annual work plan (activities) and budget using a weighted criterion to identify the planned share of resources by programme. These will then be compiled by the Planning Department which will make the final adjustments to the AWPB of the Ministry of Agriculture and Food Security.

The ASWAp secretariat will then compile the proposed AWPB from the various implementing ministries and present them to the Executive Management Committee for final approval before submission to the Ministry of Finance.

5.3.3 Monitoring and Evaluation

In order to enhance M&E, the ASWAp will implement a number of surveys including the Beneficiary Impact Assessment Baseline Survey that has been implemented by MoAFS under the ADP-SP will act as the reference point. In addition, the MoAFS is implementing regular monitoring surveys. Under the ASWAp more regular agricultural surveys, including the annual Agricultural Production Estimates Sample Survey, will be funded to increase the availability of statistical data necessary for planning, policy formulation and early warning. These will be implemented in close collaboration with NSO. Most of the indicators to be tracked are provided in the Targets and Results Framework (Appendix 3). Planning Department and ASWAP secretariat will lead the process of Planning, Monitoring & Evaluation.

5.4 INSTITUTIONAL STRENGTHENING AND CAPACITY BUILDING

5.4.1 Approach to Capacity Building

The ASWAp is a prioritised results-oriented framework under the Ministry of Agriculture and Food Security's leadership that calls for a gradual harmonization and alignment of Government and donor financial support. It has strong linkages to national, regional and international policy frameworks particularly the MGDS, CAADP and MDGs. The programme builds on successes of the past and supports capacity building initiatives and strengthening of institutions for effective delivery of services. It therefore represents a significant change in conducting business in the agriculture sector as implementation and management of resources including donor support will utilise the existing government structures. This demands that staff will need immediate orientation and regular subsequent training on their responsibilities and tasks. This will be based on two main principles namely support oriented to meeting skill needs for effective delivery of the ASWAp and utilizing as much as possible credible local education and training providers for both short and long term courses. This is in part to ensure capability as staff retires, but also because vacancy rates in the civil service are high (estimated at 40 per cent across government). These needs will be addressed through postgraduate training at Master and Doctorate levels and through training and education leading to undergraduate degrees, diplomas and certificates. However, in the case of skill needs for which training is not available in Malawi, the services of regional as well as international institutions will be used.

5.4.2 Professional⁸ and Administrative Skills

The capacity assessment of the needs of the common services and of the agriculture, health, education and irrigation sectors have been done to promote systematisation and ensure that support to capacity strengthening can be directed to agreed priority areas.

⁸ 'Professional skills' include planning, monitoring & evaluation, and management.

It is recognised, however, that there will be immediate skill needs for delivery of the ASWAp. Thus, once systems have been redesigned, all professional and administrative staff involved in delivery of the ASWAp will be offered short orientation programmes. The content of these programmes will vary and be specific to the skill area concerned. There will thus be separate programmes on each professional skill (planning, monitoring & evaluation, and management) and on each administrative skill (financial management, procurement, and human resources management).

The capacity building programmes will be short, medium, and long term duration dependent of the nature of capacity gap identified.

5.4.3 Technical Skills

A similar approach will be adopted in building capacity in technical skills with training offered for orientation and subsequent retraining. It will also be offered for short, medium, and longer term capacity building through examined courses at diploma, certificate, undergraduate, masters and exceptionally, doctorate levels. The identification of training needs will be through training and capacity needs analysis to be conducted at the onset and during the implementation of the ASWAp.

5.4.4 Selection of Trainees and Allocation of Funding for Training

Channelling funding for training to priority needs is essential. In particular, there is strong competition to obtain scholarships for postgraduate degrees, particularly for courses offered outside Malawi within the public sector. This is mainly due to insufficient resources hence need for an objective criterion for selection of trainees.

ASWAp orientation training and retraining: It is envisaged that all professional, administrative and technical staff at central level in the MoAFS, participating ministries and at the district level will be eligible for orientation training and subsequent yearly retraining in Malawi. As a result, no selection criteria are required.

Other types of training (i.e. postgraduate, undergraduate, certificate and diploma): It is proposed that criteria be established to allocate funding between the various ministries at central district levels. In order to link training funds to size of institutions, it is recommended that funds be allocated separately to postgraduate training at masters and doctorate levels internationally and nationally. Furthermore, an additional allocation for diplomas and certificates will be made on the basis of priority programme areas while the allocation of funding between ministries and districts would be made on the basis of approved programmes. It would in practice create a pool of funding for each ministry and district to be allocated between competing users. In order to best direct use of the funds and avoid unduly subjective judgement, it is recommended that preference for Doctorate and Masters degrees (both local and foreign) and diplomas should be given to departments with: (i) the highest average age of graduate level staff, (ii) the lowest ratio of staff with higher degrees (Masters and Doctorate) to total graduate establishment; and (iii) those which have the highest multi-annual budget allocations under the ASWAp.

5.4.5 Systems Design

The shift to a programme approach will require major changes to ways of working. This will be reflected in work planning, monitoring & evaluation, public financial management, procurement and

human resources management. Major changes are expected in the first two areas with some adjustments to system design in the others.

Systems will need to be designed and installed before ASWAp implementation can progress and in addition, support to system operation will be needed for a period thereafter. Provision for technical assistance to systems design and operation has therefore been made in the budget.

System redesign will prospectively be based on the systems review recommendations as part of the support by the Office of the President and Cabinet in capacity assessment. If the recommendations are not in line with the priorities of MoAFS to govern ASWAp implementation, then a new systems assessment will be instituted.

5.5 INAUGURATION OF THE ASWAP

The ASWAp implementation is scheduled to commence in the 2011/12 financial year which is the first year of the 4 year implementation period (2011/12- 2014/15). A small proportion of activities (less than 20%) outlined in the ASWAp are non-traditional to the Ministry and partners. For example, risk management component which encompasses weather insurance, village banks, market friendly buffer system management, and warehouse receipt systems among others. The larger proportion constitutes on-going activities being implemented by various departments and institutions and have been wholesomely taken on board for continuity purposes. However, targets for such activities are up-scaled in line with the aspirations of the ASWAp.

The on-going activities that have been fully integrated into the ASWAp (like the fertilizer subsidy program, seed multiplications, community seed-banks, model villages, livestock multiplication and vaccinations, soil fertility conservation and small-scale irrigation systems) may, where necessary, be modified in terms of the implementation procedures as per the ASWAp requirements. In this respect it is recommended that work-plans and expenditure plans should clearly highlight activities and the resource requirement during the entire four year period until the agricultural/sector is completely ASWAp focused (after first phase in 2014/15).

For activities, programs and projects that presently address issues outside the ASWAp, the implementing departments and institutions are strongly encouraged to start discussions with financiers towards aligning those to the vision and aspirations of the ASWAp. Where realignment may not be possible, the implementers should move towards winding up implementation of those programs/projects/activities as soon as possible. The aspiration of the Ministry is to ensure that all activities in the agricultural sector are fully aligned to the ASWAp and that the amount of resources spent outside the framework is considerably minimized or wiped out all together by the end of the ASWAp first phase in 2014/15. For non-traditional priorities, like the risk management (weather insurance, village banks, and call option contracts) there is need for the ASWAp Secretariat to facilitate preparation of implementation proposals and action plans with the key sub-sectors/departments for submission to relevant donors.

The ASWAp Secretariat shall also be required to work closely with the Finance Department of the Ministry in monitoring the flow of resources to ASWAp targeted activities. It is strongly advisable that the Ministry should liaise with Treasury to clearly indicate ASWAp resources in any funding disbursements to the Ministry just like was the case during implementation of the Pro-Poor Expenditures (PPEs). It should be noted that the same case is being done with funds for the Health

Sector SWAp. Implementing departments shall be encouraged to keep separate track of implementation of ASWAp areas within their mandates as well as the management of funds. For discretely funded priority areas (mainly being implemented through NGOs, Civil Society, Private Sector) the Secretariat shall be required to take note of those and monitor progress with the relevant implementers. The monitoring should include: the ASWAp focused implementation work plans, resources flow/disbursement reports, and implementation progress reports highlighting the level of linkages/participation of target beneficiaries and impact assessment reports on areas being implemented under ASWAp. Likewise, the DADO will be required to take note of discretely funded priority areas, coordinate and monitor progress with the relevant implementers.

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APPENDICES

Appendix 1: Strategic Objectives, Outcomes and Actions

Strategic Objective	Field Outcome Indicator	Action
Focus Area 1. FOOD SECURITY AND RISK MANAGEMENT		
1.1 Maize self sufficiency		
a. Increase maize productivity	Average maize yield increased from 1.8 to 3.0MT/ha	<ul style="list-style-type: none"> • Implement the input subsidy program (seed and fertilizer)
		<ul style="list-style-type: none"> • Increase attention to efficient fertilizer and seed use in subsidy program
		<ul style="list-style-type: none"> • Promote good agricultural practices including establishment of model villages, Clusters and Green belts
		<ul style="list-style-type: none"> • Develop and register new improved varieties and multiply breeders seed and basic seed
		<ul style="list-style-type: none"> • Increase distribution of improved maize seed
		<ul style="list-style-type: none"> • Strengthen migratory pests monitoring and control
b. Decrease on-farm post harvest losses	Post harvest losses reduced from 25% to 12%	<ul style="list-style-type: none"> • Promote improved on-farm storage technologies and facilities (granaries/silos, Larger grain borer control) for both food and seed maize
	Reduced number of harmful agrochemicals on the market	<ul style="list-style-type: none"> • Monitor the type and quantity of agrochemicals sold
1.2 Promote diversification of food production and dietary diversification for improved nutrition at household level		
1.2.1 Increase food productivity		
a. Increase productivity of pulses (beans, soy bean, pigeon peas, cow peas) and ground nuts	Average productivity increased from 0.5 to 1.0MT/ha	<ul style="list-style-type: none"> • Facilitate multiplication (breeders & basic seed) and distribution of improved legume seed varieties and be included in the Input subsidy programme • Conduct staff and farmer training • Promote GAP (Develop new varieties, conduct seed quality control, promote community seed banks, popularize improved technologies)
b. Increase productivity of horticultural crops namely Fruits (mango, citrus, banana, plantain, pineapple, pawpaw, avocado pear) and vegetables (tomato, carrot, pumpkin, Amaranthus, kangange, moringa)	Average productivity for horticultural crops increased	<ul style="list-style-type: none"> • Improve existing systems for distribution of high quality vegetable seeds and fruit tree seedlings • Facilitate development of fruit nurseries through the establishment of mother fruit orchards for supply of quality scion of recommended varieties. • Conduct staff and farmer training • Facilitate preparation of policies, legislation and regulations governing the horticultural industry to ensure adherence to

Strategic Objective	Field Outcome Indicator	Action
		the required market standards and food safety (nurseries, field production and marketing standards).
		<ul style="list-style-type: none"> • Promote adoption of Integrated Production and protection (IPP) technologies for horticultural crops
c. Increase productivity of cassava, sweet and yellow potato and Irish potato in relevant areas	Average yield increased for cassava from 20 to 25MT/ha, sweet potato from 13 to 20MT/ha	<ul style="list-style-type: none"> • Facilitate multiplication and distribution of disease free improved planting material of cassava and sweet potato • Conduct staff and farmer training • Develop mother nurseries
d. Increase household (HH) poultry meat and egg productivity	>Egg production increased from 2,291 to 4,685MT per year >Poultry mortality reduced from 60 to 20%	<ul style="list-style-type: none"> • Improve provision of vaccines/vaccination services for poultry diseases • Promote increased production of high quality feed including development of local feed formulations • Monitor and certify quality of poultry feeds
	>Poultry meat production increased. >Chicken population increased from 44 million to 120 million at national level >Guinea fowl population increased from 900,000 birds to 2,000,000 at national level	<ul style="list-style-type: none"> • Increase capacity of regional hatcheries and number of mini-hatcheries for chickens including Black Australop • Intensify livestock group formation and support • Intensify livestock frontline staff training
e. Increase small stock productivity (goat)	>Goat herd size increased from 3 million to 5.4million >Goat milk productivity increased from 0.25liters/goat to 1.5liters /goat/lactation >Pig herd size increased from 1million to 2million pigs per year. >Rabbit herd size increased from 600,000 to 1.2million rabbits per year	<ul style="list-style-type: none"> • Promote goat re-stocking and farmer-to-farmer transfer (pass-on) systems for meat and milk production • Intensify farmer and staff training programs • Intensify vaccination campaigns
Livestock Production	Recommended stocking rates adhered to	<ul style="list-style-type: none"> • Monitor livestock and fish stock levels • Introduce improved, approved and registered exotic breeds with superior characteristics • Promote production of improved chicken feed based on locally available materials. • Introduce productive dairy goat breeds that give at least two liters of milk per day as compared to the local goat which gives 0.25 to 0.5 liters of milk per day. • Improve and increase capacity of existing regional hatcheries (Mikolongwe, Bwemba and Choma) for rapid multiplication of chickens and guinea fowls. • Introduce productive breeds in the smallholder communities to improve the size and quality of goats and pigs.

Strategic Objective	Field Outcome Indicator	Action
		<ul style="list-style-type: none"> • Improve the management system for pigs and rabbits under smallholder farmers • Improve poultry vaccination services including the production and importation of sufficient vaccine doses. • Increase the number of chickens and guinea fowls vaccinated against New Castle disease at smallholder level • Manufacture and distribute mini-hatcheries to groups of smallholder farmers or individuals at village level for chicken and guinea fowl multiplication. • Promote goat re-stocking and transfer systems (farmer to farmer pass-on programmes) for meat and milk production. • Improve vaccination services against Swine fever to stimulate production of pigs for meat. • Disseminate skills and knowledge in the preparation, processing and utilization of rabbit meat.
Fish Production	Extinction of indigenous fish species controlled	<ul style="list-style-type: none"> • Monitor the type and number of exotic fish species introduced • Promote village level fish farming schemes comprising of four hectares of water surface area benefiting about thirty smallholders per location through construction of fish ponds • Facilitate provision of fish fingerlings, fish feed and training of fingerling producers as well as fish feed producers
1.2.2 Promote consumption and utilization of diversified high nutritive value foods at HH level		
a) Promote dietary adequacy	Proportion of h/h consuming diversified diet and micronutrient rich foods (with Vit A and Iron) increased and measured by HDDS (H/h Dietary Diversity Score)	<ul style="list-style-type: none"> • Develop standardized messages covering production to utilization • Conduct demonstrations on processing and utilization of a diversified diet. • Develop local recipes with emphasis on the multi-mix approach • Conduct regular dietary monitoring and assessments • Promote the six food groups approach and generate baseline data for post-promotion evaluation (in year 3) •
b) Improve quality of diets for the most	Number of vulnerable people accessing quality	<ul style="list-style-type: none"> • Promote consumption of enriched foods with soy beans,

Strategic Objective	Field Outcome Indicator	Action
vulnerable groups	diets increased	g/nuts, beans, p/peas, c/peas) in complementary feeding programmes, maternal nutrition and PLHIV <ul style="list-style-type: none"> • Conduct demonstrations on preparation of enriched phala in both communities and at NRU and CTC sites
c) Intensify nutrition education	Number of households accessing nutrition education increased	<ul style="list-style-type: none"> • Develop and promote IEC materials on consumption, processing, preparation and utilization of enriched foods • Train extension workers on prevention of micronutrient deficiencies • Conduct multi-media campaigns on dietary diversification, consumption of Vit A and Iron rich foods • Conduct consumer education on fortified foods • Conduct staff and farmer training in food budgeting (300 kg maize /person/yr; 50kg g/nuts + 50kgs Soyabeans + 50kgs beans/person/year) • Train Extension staff (TOT) and Hh in processing, preservation, storage and utilization. • Conduct joint staff and farmer training with the Ministry of Women and Child Development and Local Government and promote coordinated approaches
1.3 Risk management for sustainable food availability at national level		
a. Improve risk management systems and mechanisms for food stability at national level	National food gap avoided (MT)	<ul style="list-style-type: none"> • Improve management of the Strategic Grain Reserve (SGR)
		<ul style="list-style-type: none"> • Increase storage capacity at national level
		<ul style="list-style-type: none"> • Promote village grain bank schemes including improved granaries and mini silos
	Increased number of functioning market- based risk management mechanisms employed	<ul style="list-style-type: none"> • Establish a warehouse receipt system • Employ maize supply/price hedging strategy
		<ul style="list-style-type: none"> • Strengthen the framework and capacity for maize call options import contracts
		<ul style="list-style-type: none"> • Establish a commodity market insurance system
	Number of weather related risk management mechanisms employed	<ul style="list-style-type: none"> • Develop a weather related insurance product for maize i.e. Rainfall index based early warning system; Macro and Micro-weather insurance systems
		<ul style="list-style-type: none"> • Strengthen weather forecasting capability for agriculture
	Technology adoption	<ul style="list-style-type: none"> • Encourage planting of drought resistant crops
Focus Area II. COMMERCIAL AGRICULTURE, AGRO-PROCESSING and MARKET DEVELOPMENT		

Strategic Objective	Field Outcome Indicator	Action
II.I Agricultural exports for improved balance of trade and income		
Increase total value of agricultural exports by commodity	Increased exports of tobacco (125,000 to 185,000MT), tea (44,000 to 60,000MT), cotton (20,000 to 50,000MT), sugar (110,000 to 150,000MT), coffee, macadamia, Birds eye chillies, paprika, groundnuts, soybeans	<ul style="list-style-type: none"> Promote contract farming, out-grower schemes, farmer associations and cooperatives by commodity
		<ul style="list-style-type: none"> Promote producers organizations for specific commodity value chain
		<ul style="list-style-type: none"> Strengthen managerial and technical capacity of producer organizations
		<ul style="list-style-type: none"> Promote partnerships, dialogue and cooperation between chain stakeholders Strengthen capacity of value chain players
		<ul style="list-style-type: none"> Promote production, distribution and utilization of improved seed, chemicals and fertilizers.
		<ul style="list-style-type: none"> Promote agricultural exports (through market research studies, export trade fairs, buyer/trader meetings etc.)
	Increased unit value of agricultural exports from US\$580 million to US\$800 million by commodity based on constant prices	<ul style="list-style-type: none"> Improve compliance to market standards (grading, packaging, labeling, volumes demanded, timing of exports, delivery requirements etc.)
		<ul style="list-style-type: none"> Promote quality through compliance to sanitary and phytosanitary standards, varieties, and grading
		<ul style="list-style-type: none"> Provide technical services support to enhance output quality including quality certification and regulatory services and border post produce inspections
		<ul style="list-style-type: none"> Procure laboratory equipment for analysis of soil, pesticides efficacy, cotton fiber, lint quality, and pesticide residues in food crops
		<ul style="list-style-type: none"> Consider input subsidy for tobacco seed & fertilizer, cotton seed & chemicals and legume seed
11.2 Commercial production and agro-processing for import substitution and domestic market development		
a. Increase volume of high-value commodities for agro-processing and import substitution	Increased volume of high value crops under irrigation and rain-fed conditions i.e. rice, fruits (pineapple, mango, oranges, banana,), vegetables (tomato, green beans, onion), potato, cassava,).	<ul style="list-style-type: none"> Rehabilitate existing irrigation schemes and systems and develop new ones
		<ul style="list-style-type: none"> Strengthen technical and Operational & Management capacities for irrigation management including establishment of WUA when required
		<ul style="list-style-type: none"> Provide research, extension and marketing services for irrigation systems users

Strategic Objective	Field Outcome Indicator	Action
	Increased milk production & processing from 30,000 to 61,000MT	<ul style="list-style-type: none"> • Provide research, extension and marketing services for irrigation systems users. • Import dairy cattle animals and upscale multiplication of dairy animals • Increase production of animal feed and fodder • Promote mini dairy processing and cooling facilities
	Dairy animal mortality reduced from 20% to 5%	<ul style="list-style-type: none"> • Provide preventive cattle vaccination services (foot and mouth, anthrax, black leg diseases) for beef and milk production (Intensify disease control programmes)
		<ul style="list-style-type: none"> • Provide the essential technical services required by beef and milk producers (AI service, live bull service, feed production, veterinary services)
		<ul style="list-style-type: none"> • Rehabilitate dip-tank infrastructure and strengthen technical and O & M capacities for their management
	Increased beef herd size from 850,000 to 1,250,000	<ul style="list-style-type: none"> • Promote formation of MBG/cooperatives for livestock • Develop local feed formulations and train people on production of the feeds • Promote stall feeding systems
	Increased red meat production & processing from 44,779 to 91,569MT	<ul style="list-style-type: none"> • Establish rural mini abattoirs • Establish organized meat and egg markets
	Increased white meat production & processing from 69,097 to 141,396MT	
	Increased fish catch landing (capture fisheries) from 45,000 to 60,000MT per year	<ul style="list-style-type: none"> • Encourage adoption of appropriate on/off shore fishing practices
b. Increase unit value of commodities (financial and non financial services)	Increased fish productivity in fish ponds (aquaculture) from 700kg to 2,000kg/ha	<ul style="list-style-type: none"> • Develop area-specific fishery management plans
		<ul style="list-style-type: none"> • Promote improved fingerlings and fish feed production
	Increased unit value of commodities through agro-processing	<ul style="list-style-type: none"> • Promote group and individual small scale agro-processing (e.g. fruit, potato, cassava, dry beans green beans; tomato fish; milk & beef) • Promote utilization of agro-processing technologies • Set up and expand market information systems
	Producer/consumer price differential reduced in key markets and for key commodities	<ul style="list-style-type: none"> • Promote group and individual small scale agro-processing for reduced spatial and temporal variability of prices
		<ul style="list-style-type: none"> • Build or rehabilitate market infrastructure in relevant places for specific commodities
	Increased access to credit by small and medium scale agro processors and traders	<ul style="list-style-type: none"> • Provide financial leverage systems for private agro-business enterprise development (e.g. matching grants)
		<ul style="list-style-type: none"> • Provide non-financial business services and capacity

Strategic Objective	Field Outcome Indicator	Action
		strengthening to small and medium scale agro-processors and traders (e.g. business plan, market information, linkages between suppliers and buyers)
	Improved water quality	<ul style="list-style-type: none"> • Reduce disposal of effluent and other materials into water bodies
<ul style="list-style-type: none"> • II.3 Public/private partnerships in Input and output market development 		
a) Improve the public/private partnerships for broader growth of the agriculture sector	Efficiencies in the Input and output markets improved	<ul style="list-style-type: none"> • Develop a strategy for partnerships between the public sector and private sector actors with well defined objectives, structures, membership characteristics, roles, responsibilities, operational principles and agreed code of conduct
	Linkages for public/private sector investments strengthened	<ul style="list-style-type: none"> • Establish and improve on effective communication and coordination mechanisms amongst government, donors, civil society organisations, and the private sector
		<ul style="list-style-type: none"> • Enhance public sector investment to better leverage collateral investments by the private sector to achieve longer term gains
		<ul style="list-style-type: none"> • Improve efficiency of public investments and collateral investments made by the private sector, farmers and NGOs
		<ul style="list-style-type: none"> • Improve transaction efficiency along the value chain for inputs and outputs
		<ul style="list-style-type: none"> • Improve farmer knowledge and choice regarding new technologies
Focus Area III SUSTAINABLE AGRICULTURAL LAND AND WATER MANAGEMENT		
III.1 Sustainable agricultural land management	Agricultural area (ha) under sustainable management (SLM) increased from 100,000 to 250,000ha	<ul style="list-style-type: none"> • Promote conservation farming (use of best technologies that build and sustain soil fertility, prevent soil erosion, conserve soil moisture, promote efficient utilization of rain or irrigation water)
		<ul style="list-style-type: none"> • Promote labour saving technologies (land ploughing using hired tractor or own tractor, herbicides for weed management and crop protection agents)
		<ul style="list-style-type: none"> • Promote management systems and technologies that protect fragile land (river banks, dambo areas, steep slopes or hilly areas, and water catchment areas) • promote community based dambo management systems
		<ul style="list-style-type: none"> • Subsidize inputs to raise forestry and fruit tree seedlings or buying of plants from commercial nurseries for farmers and village communities for planting on fragile or degraded land areas
III.2 Sustainable agricultural water management and irrigation development	Area under sustainable irrigation (ha) increased from 72,000 to 300,000ha	<ul style="list-style-type: none"> • Rehabilitate existing irrigation schemes and systems • Develop new irrigation schemes with appropriate systems

Strategic Objective	Field Outcome Indicator	Action
		<ul style="list-style-type: none"> Strengthen technical capacity for irrigation management Promote establishment of water users associations Improve the technical & management capacities of WUA Rehabilitate existing irrigation infrastructure in research stations
		<ul style="list-style-type: none"> Establish rainwater harvesting systems (dams, box ridges)
		<ul style="list-style-type: none"> Promote effective management of water catchment areas (afforestation, fruit orchard establishment, grass cover, etc)
		<ul style="list-style-type: none"> Re-stock rural irrigation dams and rivers with fish
	Improved water flow rate	<ul style="list-style-type: none"> Monitor the quantity of water abstracted
III.3 Sustainable management of the effects of climate change		
a) Mitigate the effects of drought and floods		<ul style="list-style-type: none"> Improve early warning systems for droughts and floods as well as disease and insect pest outbreaks (Army worm, Red locusts, aphids)
		<ul style="list-style-type: none"> Develop rain water harvesting and storage systems
		<ul style="list-style-type: none"> Construct irrigation dams to ensure availability of water
b) Adopt appropriate technologies to combat drought		<ul style="list-style-type: none"> Promote growing of drought tolerant crops and management practices
		<ul style="list-style-type: none"> Encourage planting of forest trees and fruit trees in fragile land areas
		<ul style="list-style-type: none"> Promote growing of Jatropha trees for production of bio-diesel to reduce air pollution
		<ul style="list-style-type: none"> Develop strategies for drought preparedness and accurate crop estimates
		<ul style="list-style-type: none"> Protect fish breeding locations in lakes and rivers that are being degraded by droughts and floods
		<ul style="list-style-type: none"> Support soil conservation initiatives and rehabilitation of degraded agricultural land
		<ul style="list-style-type: none">
KEY SUPPORT SERVICE 1: Institutional Strengthening and Capacity Building		
a) Institutional strengthening and development	Number of institutions and systems developed and strengthened	<ul style="list-style-type: none"> Strengthen and improve institutional leadership and management capacities and skills of key stakeholders to plan, coordinate, implement and monitor the ASWAp programme as well as managing government and donor investments Improve agriculture sector planning, implementation, M&E, investment management, governance, and nutritional surveillance

Strategic Objective	Field Outcome Indicator	Action
		<ul style="list-style-type: none"> • Conduct a Core Function Analysis of the MoAFS to determine how the Ministry will manage its activities under the ASWAp
		<ul style="list-style-type: none"> • Establish an ASWAp secretariat to coordinate the activities of the ASWAp and provide linkage within the MoAFS and amongst key stakeholders in the agricultural sector
		<ul style="list-style-type: none"> • Develop and strengthen public management systems
		<ul style="list-style-type: none"> • Establish and strengthen public/private partnerships for specific priority commodities
	Training for improved academic and professional knowledge and skills of existing agricultural staff in all departments achieved	<ul style="list-style-type: none"> • Provide training needed to improve technical and administrative systems, skills development, strengthening partnership
		<ul style="list-style-type: none"> • Conduct orientation courses for newly recruited staff on policies and programmes
		<ul style="list-style-type: none"> • Provision of training to frontline staff for orientation, upgrading and skills development
		<ul style="list-style-type: none"> • Provide short and long term courses on the various priority programmes of the ASWAp at certificate, diploma, B Sc, and PhD levels
b) Capacity building	Adequate human resources in place to improve staffing at all levels to effectively implement the ASWAp programmes	<ul style="list-style-type: none"> • Fill all critical vacant posts (currently estimated at 45% in the MOAFS) in the MOAFS and the agricultural sector as a whole • Recruit the appropriate human resources needed to implement programmes effectively • Recruit additional extension workers to progressively fill the establishment based on the human resources figure (currently at 45 per cent vacancies).
	Improved resource allocation (equipment, facilities and finances)	<ul style="list-style-type: none"> • Procure adequate equipment and facilities (motor cars, motor bikes, computers, bicycles, laboratory equipment, office furniture and equipment) for front line staff • Provide adequate finances to meet operational costs and maintenance of vehicles and equipment
		<ul style="list-style-type: none"> • Develop and improve resource capacities of key institutions for front line agricultural staff

Strategic Objective	Field Outcome Indicator	Action
KEY SUPPORT SERVICE 11: Technology Development and Dissemination		
a) Conducting results and market oriented research on priority technology needs and provision of technical and regulatory services	Increased agricultural productivity as a result of technology adoption and utilization	<ul style="list-style-type: none"> • Develop crop varieties that are high yielding, good quality, resistant to diseases and drought tolerant
		<ul style="list-style-type: none"> • Develop Good Agricultural Practices (GAP) i.e. Soil fertility, fertilizer and plant population management systems and integrated pest management
		<ul style="list-style-type: none"> • Develop labour saving technologies
		<ul style="list-style-type: none"> • Develop harvest and post harvest management systems including crop storage systems
		<ul style="list-style-type: none"> • Improve efficiency of the use of inputs (Seed , fertilizer and chemicals) by farmers
		<ul style="list-style-type: none"> • Breed or introduce livestock that are highly productive in meat, milk and egg production
		<ul style="list-style-type: none"> • Monitor production of livestock feeds and certify their quality
		<ul style="list-style-type: none"> • Provide technical services required by farmers i.e.dip tank fluids, vaccines for livestock; seed certification services; sanitary and phytosanitary services; production and certification of foundation and basic seed and vegetative planting materials; development and monitoring of quality standards; soil analysis for site specific fertilizer recommendations; pesticide residue analysis for food safety and analysis of Aflatoxins in groundnuts and other food grains.
		<ul style="list-style-type: none"> • Develop value addition technologies to promote agro-processing initiatives
b) Provision of efficient farmer-led extension and training services	Increased agricultural productivity due to efficient delivery of extension services	<ul style="list-style-type: none"> • Disseminate technologies on Good Agricultural Practices (GAP) to increase agricultural productivity i.e. choice of varieties and seed; management of soil fertility, fertilizers and plant population, time of planting and integrated pest management
		<ul style="list-style-type: none"> • Provide policy and regulatory support services
		<ul style="list-style-type: none"> • Promote the use of model villages, green belts, clusters and farmers cooperatives in the transfer of technologies
		<ul style="list-style-type: none"> • Train farmers on all aspects of GAP
		<ul style="list-style-type: none"> • Provide technical services required by farmers i.e. AI service for dairy cattle; dip tank management, vaccination services

Strategic Objective	Field Outcome Indicator	Action
		for livestock; distribution of vegetative planting materials; and monitoring of quality standards;
CROSS CUTTING ISSUES: Gender Disparities, HIV and AIDS Pandemic		
Gender equity and empowerment and HIV and AIDS impact mitigation	Agricultural productivity increased by recognizing gender roles and responsibilities and mitigating the impact of HIV and AIDS	<ul style="list-style-type: none"> • Mainstream HIV and AIDS and Gender strategy in the ASWAp • Establish Gender, HIV and AIDS focal points to act as catalysts to coordinate and address Gender, HIV and AIDS mainstreaming activities in all institutions implementing the ASWAp
		<ul style="list-style-type: none"> • Train members of the focal points to increase their knowledge in Gender, HIV and AIDS analysis and capacity enhancement
		<ul style="list-style-type: none"> • Mobilize and empower community groups and train them to equip them with skills in Gender, HIV and AIDS analysis
		<ul style="list-style-type: none"> • Establish and build partnerships with other organizations and networks involved in Gender, HIV and AIDS issues to build coalitions that facilitate advocacy, capacity building and sharing of experiences
		<ul style="list-style-type: none"> • Operationalize the MoAFS policy and strategy on Gender, HIV and AIDS mainstreaming in the agricultural sector
	Increased and improved agricultural labour	<ul style="list-style-type: none"> • Identify roles and concerns of men, women, boys, girls, and consider division of labour.
	Improved food security and income security at household level	<ul style="list-style-type: none"> • Empower vulnerable groups to have access to agricultural inputs, benefits and opportunities.
	Improved HIV and AIDS impact mitigation intervention for service providers and farmers	<ul style="list-style-type: none"> • Scale up interventions for nutritional support, education and agro-based income generation
	Improved access to treatment , care, food and nutritional support to people living with HIV leading to improved research and extension services	<ul style="list-style-type: none"> • Provide access to medical treatment, care, food and nutritional support to mitigate the health and nutritional impact of HIV and AIDS
	Enhanced decision making process in the agricultural sector	<ul style="list-style-type: none"> • promote participation of vulnerable groups in decision making, policy formulation and implementation processes
	Prevention of HIV and AIDS and behavior change enhanced	<ul style="list-style-type: none"> • Scale up education on HIV and AIDS and ensure that ASWAp activities do not promote HIV infection and transmission amongst participating members
	Community empowerment	<ul style="list-style-type: none"> • Increase capacity of staff and farmers to mainstream HIV, AIDS and Gender issues in ASWAp interventions

APPENDIX 2: ASWAP Result Indicators

Component	Sub-component	Indicator	Unit of measure	Baseline (2010-11)	Target 2011-12	Target 2012-13	Target 2013-14	Target 2014-15
<i>Food security and risk management</i>	Maize self-sufficiency through increased maize productivity and reduced post harvest losses	Average maize yield increased from 1.8 to 3.0 mt/ha by 2015	Metric / ha	1.8	2.0	2.3	2.6	3.0
		Post harvest losses reduced from 25% to 13% by 2015	Percentage	25	20	18	15	12
		Estimated total soil loss	Tonnes/ha/year	20	18	15	14	13.
	Diversification of food production and dietary diversification for improved nutrition at household level with focus on crops, livestock and fisheries	Proportion of farm families consuming dietary diversification	Percentage	15%	25%	35%	45%	55%
		Number of food crops grown by households increased from one to at least 3 by 2015.	Food crops grown	1	2	3	3	3
	Risk Management for Sustainable food stability at national level	National food gap for energy foods reduced to zero by 2015	Percentage	0	0	0	0	0
<i>Commercial Agriculture, Agro-processing and Market Development</i>	Agricultural Exports for improved balance of trade and income	Total value of agricultural exports increased from \$580 million to \$800 million by 2015	Million US\$	580	650	700	750	800
	Commercial production and agro-processing for import substitution and domestic market development	As above						
		Household agricultural incomes increased from US\$280 per annum to US\$550 per annum by 2015	US \$	280	300	350	500	550
		Access to credit by small and medium scale agro processors and traders increased from 20% to 60% by 2015	Percentage	20	30	40	50	60
	Public/Private partnerships in input and output market development	As above						

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Component	Sub-component	Indicator	Unit of measure	Baseline (2010-11)	Target 2011-12	Target 2012-13	Target 2013-14	Target 2014-15
	Improve the public/private partnerships for broader growth of the agriculture	As above						
<i>Sustainable Agricultural Land and Water Management</i>	Sustainable Agricultural Land Management /.	Agricultural area (ha) under sustainable land management (SLM) increased from 72,000 ha to 220,000 ha by 2014	Hectares	72,000	120,000	150,000	180,000	220,000
	Sustainable Agricultural Water Management and Irrigation Development through the Greenbelt Initiative	Area under sustainable irrigation increased from 72,000 to 280,000ha by 2015	Hectares	72,000	140,000	180,000	240,000	280,000
	Sustainable Management of the effects of climate	As above						
Key Support Services:								
<i>Technology Generation and Dissemination</i>	Results and Market oriented research on priority technology needs and provision of technical and regulatory services	Rate of adoption of priority technologies increased from 40% to 60% by 2015	Percentage	40%	45%	50%	55%	60%
	Efficient Farmer-Led Extension and Training Services	As above						
<i>Institutional Strengthening and Capacity Building</i>	Strengthening Public Management Systems	Staff Vacancy rate reduced from 31% to 12% by 2015	Percentage	31	26	22	18	12
	Capacity Building of the Public and Private Sectors	A comprehensive capacity building program in place by 2015		0	1	1	1	1
Cross-Cutting Issues:								
<i>HIV Prevention and AIDS Impact Mitigation</i>	HIV related morbidity and mortality attrition minimized	Proportion of staff accessing supplementary feeding at workplace increased from 3.4% to 7% by 2015.	Percentage of staff	3.4%	3.5%	4.5%	6%	7%
		Average farmer working hours	Working hours	5 hrs	5 hrs	5 hrs	5 hrs	5 hrs

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Component	Sub-component	Indicator	Unit of measure	Baseline (2010-11)	Target 2011-12	Target 2012-13	Target 2013-14	Target 2014-15
		per day to be maintained at 5 hrs per farmer per day						
	Enhanced resilience and household coping mechanisms	As above						
	HIV infected risks and vulnerabilities reduced	As above						
<i>Gender Equality and Empowerment</i>	Gender disparities reduced	Proportion of vulnerable groups (men, women, girls, boys, orphans, widow(er)s, etc. accessing agricultural inputs through the FISP increased from 47% to 50% by 2015.	Percentage	47	50	50	50	50
		Proportion of vulnerable people involved in decision making, policy formulation and implementation processes increased from 30% to 45% by 2015.	Percentage	30	33	35	40	45
	Enhanced capacity of youth, women and men	As above						

Appendix 3: Detailed Results Framework

Strategic Objective	Final outcome indicator	Status 2010/11	Target 2014/15	Action	Resp. Inst.	Priority	Output indicator	Status 2010/11	Target 2011/12	Target 2012/13	Target 2013/14	Target 2014/15
Focus Area 1: Food Security and Risk Management												
Component 1.1: Maize self-sufficiency												
a. Increase maize productivity	Average maize yield (MT/ha) increased	1.8	3.0	Implement the input (maize seed + fertilizer) subsidy programme	DAPS/ DCP	H	Number of farmers receiving vouchers for fertilizer subsidy	1,500,000	1,600,000	1,600,000	1,600,000	1,600,000
						H	Number of farmers receiving vouchers for maize seed subsidy		1,600,000	1,600,000	1,600,000	1,600,000
					DAPS/ DCP	H	Recurrent cost for Input subsidy programme		1	1	1	1
				Promote good agricultural practices (GAP)	DAES	M	Number of farmer groups involved in improved seed multiplication	80	100	120	140	160
				Train staff in seed multiplication	DCP	M	Number of staff trained		300	400	500	600
				Train farmers in seed multiplication	DCP	M	Number of farmers trained		1,000	2,000	3,000	4,000
b. Decrease on farm pre and post harvest losses	% of post-harvest losses	25%	13%	Fabricate and distribute metallic silos	DCP	H	Number of silos fabricated and distributed	660	680	810	975	1,175
				Train local artisans in metallic silos fabrication		H	Number of artisans trained		280	270	270	270

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Strategic Objective	Final outcome indicator	Status 2010/11	Target 2014/15	Action	Resp. Inst.	Prio rity	Output indicator	Status 2010/11	Target 2011/12	Target 2012/13	Target 2013/14	Target 2014/15
				Construct cement silos for seeds	DCP	H	No. of cement silos constructed	86	100	170	215	250
				Strengthen migratory pests monitoring and control	DCP	H	No. of hectares monitored and controlled	30,000	1,704,050	1,703,000	1,703,500	1,704,000
					DCP	H	Number of staff trained		300	400	500	600
					DCP	H	Number of farmers trained		1,000	2,000	3,000	4,000
Component 1.2: Diversification of food production and dietary diversification for improved nutrition at household level with focus on Crops, Livestock, and Fisheries												
Increase legumes and pulses productivity	Groundnut (MT/ha) productivity increased	0.5 mt	1mt	Promote Input subsidy for legume seeds	DAPS/ DCP	H	Number of farmers receiving voucher for legume seeds subsidy		1,600,000	1,600,000	1,600,000	1,600,000
	Beans productivity	0.4 mt	1mt	Promote legumes community seed banks	DCP/DARS	H	No of community legumes seed banks established	35	50	100	150	200
	Soy beans	0.8 mt	1mt	Promote new varieties and good agricultural practices for legumes	DCP/DAES	H	No.of related technical messages developed	2	2	2	2	2
	Pigeon peas	0.5 mt	1mt	Increase distribution of improved pulse seed	DCP	H	Quantities of basic pulse seed produced (MT)	-	300	300	300	300
					DCP	H	Number of farmer groups involved in pulse seed multiplication	10	10	20	30	40

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Strategic Objective	Final outcome indicator	Status 2010/11	Target 2014/15	Action	Resp. Inst.	Priority	Output indicator	Status 2010/11	Target 2011/12	Target 2012/13	Target 2013/14	Target 2014/15
Increase hh horticultural crops productivity	Average plantain yield increased (mt/ha)	22	25	Promote dissemination of improved technologies in horticulture	DCP	H	Number of staff being trained in horticulture technologies		350	450	550	600
	Leafy vegetables (MT/ha)	15	20	Create enabling policy and regulatory environment for Horticulture	DCP	M	Number of policies		-	1	-	-
	Pineapple (mt/ha)	24	30		DCP/DAES	M	Number of fruit trees propagated through community or public nurseries	5,000,000	6,000,000	8,000,000	10,000,000	12,000,000
	Monetary Value of horticulture crops produce (million US\$)	30	42		DCP/ DAES	M	No. of backyard gardens promoted	-	500	600	700	800
	Prevalence Banana Bunchy Top (%)	90	10	Sensitize farmers on the presence of the disease and its control measures	DCP	H	Number of sensitization meetings		40	240	-	-
				Develop and disseminate messages on the impact of banana bunchy top disease	DCP	M	Number of posters developed and disseminated		800,000	800,000		-
				Demonstrate corrective community action	DCP	L	Number of demonstrations		80	200	-	-
					DCP	M	Number of mats destroyed		6,000	7,000	8,000	10,000

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Strategic Objective	Final outcome indicator	Status 2010/11	Target 2014/15	Action	Resp. Inst.	Priority	Output indicator	Status 2010/11	Target 2011/12	Target 2012/13	Target 2013/14	Target 2014/15
				Propagate banana suckers using split corm method and distribute to affected farmers	DCP	M	Number of suckers propagated and distributed		4,000	5,000	8,000	10,000
Increase root and tubers crops productivity in relevant areas	Average cassava yield increased (MT/ha)	8	15	Multiplication and distribution of cassava and sweet potato improved planting materials	DCP	M	Quantities of cassava improved planting material (bundles) distributed	314,178	325,000	335,000	345,000	355,000
	Average sweet potato yield increased (MT/ha)	3	8		DCP	M	Quantities of sweet potato improved planting material (bags) distributed	157,089	162,000	168,000	172,000	178,000
Increase HH poultry meat and egg productivity	Number of chickens produced at national level increased	44 million	120 million	Provide vaccines / vaccination services against Newcastle disease	DAHLD	H	Number of NCD vaccine doses procured ('000)	10,000	22,000	66,000	105,000	150,000
	Poultry mortality (%)	60%	20%	Multiplying and de-worming of guinea fowls	DAHLD	M	No. of poultry groups supported	-	56	56	56	56
	National flock of guinea fowls increased (million)	0.9	2		DAHLD	M	No. of guinea fowls de-wormed and vaccinated	-	1,100,000	1,350,000	1,650,000	2,000,000
	Egg production (MT/year)	2,291	4,685	Increase availability of well trained livestock extension workers	DAHLD	L	Number of AVOs trained	300	200	250	250	500

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Strategic Objective	Final outcome indicator	Status 2010/11	Target 2014/15	Action	Resp. Inst.	Prio rity	Output indicator	Status 2010/11	Target 2011/12	Target 2012/13	Target 2013/14	Target 2014/15
				Increase provision of veterinary services for poultry	DAHLD	L	Undertake refresher courses for Aides on poultry production and marketing	-	200	200	200	200
				Establish mini hatcheries	DAHLD	L	No. of mini hatcheries established	-	8	7	7	6
				Improve poultry feed quality	DAHLD	L	Number of farmers receiving information on adapted poultry feed training	4,000	400	1,320	1,616	744
					DAHLD	L	Number of mini feed mills established	-	1	3	3	4
Increase small stock productivity (goat)	Increased goat herd size (million)	3	5.4	Promote goat re-stocking and pass-on programmes	DAHLD	M	Number of farmer groups assisted with breeder goats	150	200	200	200	200
					DAHLD	M	Number of goats de-wormed	3,000,000	3,500,000	4,200,000	4,200,000	5,400,000
				Training of farmers in goat management	DAHLD	L	No of farmers groups trained	-	100	150	250	500
				Introduce drug-box services	DAHLD	M	No. of groups supported	-	58	116	232	464
	Increased goat milk production (L/day)	0.25	1.5	Promote keeping of improved dairy goat breeds	DAHLD	M	No. of organized groups participated in pass-on-programme	5	10	20	35	35

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Strategic Objective	Final outcome indicator	Status 2010/11	Target 2014/15	Action	Resp. Inst.	Priority	Output indicator	Status 2010/11	Target 2011/12	Target 2012/13	Target 2013/14	Target 2014/15
	Increased rabbit herd size (million)	0.6	1.2	Promote rabbit re-stocking and pass-on programmes	DAHLD	L	Number of groups supported with rabbit breeds	-	30	30	30	30
Increase hh dairy production	Increased cow milk prod. (MT)	30,000	60,000	Import dairy animals	DAHLD	H	No of dairy animals	24,760	1,000	1,200	1,400	1,700
				Intensify cross breeding programmes	DAHLD	H	No of dairy animals	24,760	2,500	8,000	11,000	4,500
				Increase animal feed/fodder production and conservation	DAHLD	M	Silage tonnage achieved	180,000	18,000	60,000	80,000	35,000
				Intensify disease control programmes, vaccination and dipping	DAHLD	H	No of dairy animals de-wormed	24,760	30,000	35,000	45,000	50,000
				TB testing	DAHLD	M	No of dairy animals tested	24,760	25,000	30,000	35,000	40,000
				Mastitis control	DAHLD	M	No of dairy animals treated	24,760	10,000	10,000	15,000	15,000
Increase hh pig productivity	Increased pork production (MT)	25,033	51,190	Source genetically superior breeding stock	DAHLD	H	No of pigs sourced	5,652	800	1,000	1,300	1,500
				Intensity on-farm feed production	DAHLD	L	No of farmers trained	2,200	2,500	3,000	4,000	5,000
	Reduced pig mortality (%)	70	30	De-worming and vaccination of pigs against swine fever	DAHLD	H	No of healthy pigs	928,952	1,000,000	1,400,000	1,700,000	2,000,000

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Strategic Objective	Final outcome indicator	Status 2010/11	Target 2014/15	Action	Resp. Inst.	Prio rity	Output indicator	Status 2010/11	Target 2011/12	Target 2012/13	Target 2013/14	Target 2014/15
Increased aquaculture productivity	Increased pond aquaculture production (Kg/ha)	700	2,000	Encourage adoption of appropriate technologies on off-shore fishing practices	FISHERIES DEPT	M	No. of village fish farming schemes established, training and materials included	1	1	1	1	1
				Promote improved fingerlings and fish feed production at smallholder level	FISHERIES DEPT	M	Number of fish ponds constructed	400	250	300	300	350
					FISHERIES DEPT	L	Number of fingerlings and fish feed producers trained	50	100	150	180	250
					FISHERIES DEPT	L	Number of feed formulae developed	2	2	2	2	2
				Restocking of dams in rural areas	FISHERIES DEPT	M	Number of dams restocked	20	30	60	60	65
				Promote Integrated Agriculture Aquaculture production	FISHERIES DEPT		No. of farmers practicing IAA	800	1100	1400	1800	1800
Nutrition improved	Proportion of farm families consuming dietary diversification	15%	55%	Develop and disseminate guidelines related to food processing, storage, utilization	DAES/ OPC	M	Guidelines and standardized messages developed and disseminated	-	3	3	3	3
	Number of food crops grown by Hh	1	3	Develop and disseminate IEC materials on same	DAES/ OPC	M	IEC materials developed and disseminated via promotion campaigns	-	3	4	5	6

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Strategic Objective	Final outcome indicator	Status 2010/11	Target 2014/15	Action	Resp. Inst.	Prio rity	Output indicator	Status 2010/11	Target 2011/12	Target 2012/13	Target 2013/14	Target 2014/15
				Train Extension staff (TOT) and households	DAES/ OPC	M	No. farmers trained use of equipment and some recipes	-	160,000	160,000	160,000	160,000
					DAES/ OPC	M	No. extension staff groups trained (AEDOs)	-	100	100	100	100
				Conduct trainings for service providers	DAES/ OPC	M	Number of training sessions conducted	-	1	1	2	2
				Develop and disseminate recipes that use indigenous food to diversify diets	DAES/ OPC	M	No. of recipes technologies developed and disseminated	-	1	1	2	2
				Conduct consumer education on fortified foods	DAES/ OPC	L	Consumer education sessions conducted		1	2	2	1
				Conduct dietary monitoring and assessment	DAES/ OPC	M	Monitoring and assessments conducted	-	4	4	4	4
Component 1.3. Sustainable food availability at national level												
Risk management for food stability	Avoid national energy food gap	0	0	Improve management of the SGR & reduce storage losses	DAPS	H	Qty of grain stored in SGR (mt) Unit cost of storage US\$/MT	60,000	70,000	80,000	90,000	100,000
				Establish a warehouse receipt system	DAPS	H	Volume of maize stored under the warehouse receipt system (MT)	-	10,000	20,000	30,000	40,000

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Strategic Objective	Final outcome indicator	Status 2010/11	Target 2014/15	Action	Resp. Inst.	Prio rity	Output indicator	Status 2010/11	Target 2011/12	Target 2012/13	Target 2013/14	Target 2014/15
				Promote village grain bank schemes	DAES	M	Number of village bank schemes operated	24	25	30	40	45
				Establish a maize market insurance system	PS	M	Premium paid for insurance	-	-	1	-	-
				Strengthen weather forecasting capability for agriculture	CAETS/ MET	M	Strong weather stations in all EPAs, districts and ADDs	-	50	75	100	125
				Carry monitoring programmes on fisheries resources	FISHERIES DEPT		No of monitoring surveys	2	1	1	1	1
							No. of data sets produced	2	1	1	1	1
				Carry out enforcement programmes	FISHERIES DEPT		No of patrols conducted	32	80	80	80	80
				Develop area-specific fishery management plans	FISHERIES DEPT		No. of management plan approved	3	3	1	1	1
				Encourage establishment of village fish farming schemes	FISHERIES DEPT		No. of village fish farming schemes established	1	1	1	0	1
							No of fish ponds constructed	400	300	750	150	250
Focus Area 2: Commercial Agriculture and market development												
Component 2.1. Agricultural export for improved balance of trade and income												
Increase total value of agricultural exports	Volume of exports (million US\$)	580	800	Promote contract farming and producers' organizations	DCP/ DAPS	M	Number of FO engaging in contract farming for cash crops	27	15	30	40	75

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Strategic Objective	Final outcome indicator	Status 2010/11	Target 2014/15	Action	Resp. Inst.	Priority	Output indicator	Status 2010/11	Target 2011/12	Target 2012/13	Target 2013/14	Target 2014/15
	Increased export of Cotton	20,000	40,000	Train Prod. Org. members in agribusiness skills	DAPS	M	Number of FO members trained in agribusiness skills (management, accounting, quality control)	-	5,000	5,000	5,000	5,000
	Increased export of Sugar (MT)	111,000	150,000	Strengthen managerial and technical capacity of producer organizations.	DAPS	L	Number of FO members trained in quality control: post harvest grading/handling techniques	-	5,000	5,000	5,000	5,000
	Increased export of Tobacco (MT)	125,000	185,000	Promote dialogue between value chain stakeholders	DAPS	M	Number of value chain coordination mechanisms set-up	-	2	4	6	7
	Increased export of Tea (MT)	44,000	60,000	Strengthen capacity of value chain players	DAPS	M	Number of value chain stakeholders trained on value chain development, by commodity	100	150	150	150	150
					MoTI	M	Number of new agri-food export contracts facilitated by MEPC	-	2	15	25	35
				Promote exports through market research studies export fair	DAPS	M	Number of commodity strategies developed	-	2	2	2	2

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Strategic Objective	Final outcome indicator	Status 2010/11	Target 2014/15	Action	Resp. Inst.	Prio rity	Output indicator	Status 2010/11	Target 2011/12	Target 2012/13	Target 2013/14	Target 2014/15
					DAPS	M	Number of export trade studies/ analysis, by commodity	-	5	5	5	5
Increased unit value of agricultural export ('000 MK/MT) by commodity	Increased unit value of tobacco	-	-	Improve compliance to market standards (grading, packaging)	DAPS/DAES	M	Number of value chain players trained in commodity handling, processing storage	-	50	50	100	100
	Increased unit value of cotton	-	-	Increase quality certification and regulatory services	DARS/ DAHLD	M	Number of product accreditation (PA) quality assurance (QA) and certification services (CS)	5	5	5	5	5
					MOTI/BOS	M	Number of quality assurance certificates issued	-	5,000	5,000	5,000	5,000
				Provide technical support to enhance output quality (seed)	ARET	M	Quantity of improved tobacco certified seed distributed (Kg)	-	200	300	400	500
					TRF	M	Area replanted with clonal tea bushes (ha)	-	25	25	25	25
					Cotton Companies	H	Quantities of improved cotton seed (MT)	2,000	2,500	3,000	3,500	4,000

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Strategic Objective	Final outcome indicator	Status 2010/11	Target 2014/15	Action	Resp. Inst.	Prio rity	Output indicator	Status 2010/11	Target 2011/12	Target 2012/13	Target 2013/14	Target 2014/15
				Promote mechanization	DCP	H	No. of ha under tractor hire scheme	2,090	10,000	10,000	10,000	10,000
					DCP	M	No of ha under oxenisation	1,110	16,615	16,615	16,615	16,615
					DCP	M	No. of hand planks distributed	1,200	12,000	35,000	50,000	60,000
				Promote labour saving technology	DCP	L	Number of sprayer		200	200	200	200
					DCP	L	Number of hactare under herbicides application		2000	2000	2000	2000
				Conduct review meeting on farm mechanisation and oxenisation efficiency in agriculture	DCP	L	Number of review meetings		4	4	4	4
Component 2.2. Commercial production and agro-processing for import substitution and domestic market development												
Increase volume of high-value commodities for agro-processing	Increased milk production and processing (MT)	30,047	61,443	Provide dairy inputs and services	DAHLD	H	Number of high productive dairy heifers for demonstration and dissemination		1,250	1,250	1,250	1,250
					DAHLD	H	Number of diary farmers trained in fodder production	1,440	2,000	2,500	3,000	4,000

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Strategic Objective	Final outcome indicator	Status 2010/11	Target 2014/15	Action	Resp. Inst.	Priority	Output indicator	Status 2010/11	Target 2011/12	Target 2012/13	Target 2013/14	Target 2014/15
					DAHLD	H	Number of farmers receiving advice on dairy husbandry	3,000	4,000	5,000	6,500	8,500
					DAHLD	M	Number of min dairy processors/cooling facilities provided on pilot basis to selected MBG	6	1	2	2	1
	Increased beef herd size (million)	0.85	1.25	Rehabilitate dip-tank infrastructure and strengthen technical and O&M capacities for their management	DAHLD	H	Number of cattle treated against ticks	400,000	450,000	500,000	550,000	600,000
					DAHLD	H	Number of dip tanks rehabilitated	100	100	100	100	400
					DAHLD	M	Number of dip-tank users management groups established and trained	100	100	100	100	400
				Conduct preventive vaccination (foot and mouth, anthrax, black leg) for beef production	DAHLD	H	Number of animals vaccinated against FMD	185,000	190,000	200,000	210,000	215,000
					DAHLD	H	No of animals vaccinated against Black leg	200,000	250,000	300,000	350,000	400,000

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Strategic Objective	Final outcome indicator	Status 2010/11	Target 2014/15	Action	Resp. Inst.	Priority	Output indicator	Status 2010/11	Target 2011/12	Target 2012/13	Target 2013/14	Target 2014/15
					DAHLD	H	Number of animals vaccinated against LSD	200,000	250,000	300,000	350,000	400,000
				Intensify MBGs/Cooperatives	DAHLD	L	No of MBGs	150	15	40	64	28
	Increased red meat production and processing (MT)	44,779	91,569	Promote stall feeding	DAHLD	M	No of animals.	500	300	300	400	600
				Establish organized markets	DAHLD	M	No of markets	12	1	4	5	4
	Increased white meat production, processing	69,097	141,296	Train local broiler and pig feed formulation	DAHLD	M	No of farmers	4,000	450	1,300	1,700	750
	Increased egg prod. (MT)	2,291	4,685	promote local feed production and formulation	DAHLD	M	No of farmers	2,500	250	850	1,100	500
	Increased collection and quality of hides	218,435	446,678	Enhance information on hides and skin trade	DAHLD	M	No of technical messages	8	25	25	25	25
	Increased collection and quality of skins	1,847,012	3,776,955	Establish rural/mini abattoirs	DAHLD	M	No of rural abattoirs	8	6	4	6	4

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Strategic Objective	Final outcome indicator	Status 2010/11	Target 2014/15	Action	Resp. Inst.	Prio rity	Output indicator	Status 2010/11	Target 2011/12	Target 2012/13	Target 2013/14	Target 2014/15
	Increased fish catch landing (MT)	45,000	60,000	Encourage adoption of appropriate on/off-shore fishing practices	FISHERIES DEPT	M	Number of fishermen receiving info about appropriate fishing practice	150	250	250	250	250
					FISHERIES DEPT	M	Number of off-shore fishing technology	1	2	2	2	2
					FISHERIES DEPT	M	Number of fishers receiving information and training about off-shore fishing	200	500	500	700	900
				Develop area-specific fishery management plans	FISHERIES DEPT	M	Number of management plan approved	3	3	4	4	4
				Promote adoption of sanitarian standards and hygiene for fish and fish products	FISHERIES DEPT		No of fish handling and processing facilities constructed	9	9	9	5	3
							No of processors and fishers trained	150	250	300	350	400
				Promote improved fingerlings and fish feed production at smallholder level	FISHERIES DEPT		No of feed formulations produced	2	2	1	1	1
							No of fingerlings produced	2400000	2800000	2800000	3000000	4000000

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Strategic Objective	Final outcome indicator	Status 2010/11	Target 2014/15	Action	Resp. Inst.	Priority	Output indicator	Status 2010/11	Target 2011/12	Target 2012/13	Target 2013/14	Target 2014/15
							No. of hatcheries operational	5	5	5	5	5
							Number of certified feed and fingerling producers	20	30	35	40	45
				Encourage adoption of appropriate technologies on off-shore fishing	FISHERIES DEPT		No of offshore fishing technologies adopted	1	2	1	0	1
Increased unit value of commodities (financial & non-financial support services)	Household agricultural income (USD/year)	280	600	Promote group and individual small scale agro-processing (e.g. horticulture, cassava, potato, pulses)	DCP	L	Number of cassava and sweet potato processing groups set up	60	70	80	90	100
	Increased red meat production and processing (MT)	44,779	91,569	Promote stall feeding	DAHLD	M	No of animals.	500	300	300	400	600
				Establish organized markets	DAHLD	M	No of markets	12	1	4	5	4
	Increased white meat production, processing	69,097	141,296	Train local broiler and pig feed formulation	DAHLD	M	No of farmers	4,000	450	1,300	1,700	750
	Increased egg prod. (MT)	2,291	4,685	promote local feed production and formulation	DAHLD	M	No of farmers	2,500	250	850	1,100	500

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Strategic Objective	Final outcome indicator	Status 2010/11	Target 2014/15	Action	Resp. Inst.	Prio rity	Output indicator	Status 2010/11	Target 2011/12	Target 2012/13	Target 2013/14	Target 2014/15
	Increased collection and quality of hides	218,435	446,678	Enhance information on hides and skin trade	DAHLD	M	No of technical messages	8	25	25	25	25
	Increased collection and quality of skins	1,847,012	3,776,955	Establish rural/mini abattoirs	DAHLD	M	No of rural abattoirs	8	6	4	6	4
	Increased fish catch landing (MT)	45,000	60,000	Encourage adoption of appropriate on/off-shore fishing practices	FISHERIES DEPT	M	Number of fishermen receiving info about appropriate fishing practice	150	250	250	250	250
					FISHERIES DEPT	M	Number of off-shore fishing technology	1	2	2	2	2
					FISHERIES DEPT	M	Number of fishers receiving information and training about off-shore fishing	200	500	500	700	900
				Develop area-specific fishery management plans	FISHERIES DEPT	M	Number of management plan approved	3	3	4	4	4
					DCP	L	Number of cassava and sweet potato processing equipment distributed	15	50	95	130	150

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Strategic Objective	Final outcome indicator	Status 2010/11	Target 2014/15	Action	Resp. Inst.	Priority	Output indicator	Status 2010/11	Target 2011/12	Target 2012/13	Target 2013/14	Target 2014/15
				Disseminate information on small scale crop processing	DCP	M	Number of farmers receiving information about transformation technologies for root crops	610,000	5,000	5,000	10,000	10,000
Component 2.3 Input and output market development through Private public partnership												
	Reduced spatial and temporal variability of prices			Expand market information system		M	Number of MIS bulletin	45	50	50	50	50
						M	Number of radio programmes prepared on MIS	-	5	5	5	5
				Built and rehabilitate market infrastructure		H	Number of wholesale markets built	-	5	5	5	5
						H	Number of new collection points built	90	25	25	25	25
						H	Number of retail markets rehabilitated	-	10	10	10	10
	Access to credit by small and medium scale agro-processors and traders	20%	60%	Financial leverage systems for private agro business development (Matching grants)		M	Number of systems developed and tested	-	-	1	-	-

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Strategic Objective	Final outcome indicator	Status 2010/11	Target 2014/15	Action	Resp. Inst.	Prio rity	Output indicator	Status 2010/11	Target 2011/12	Target 2012/13	Target 2013/14	Target 2014/15
				Provide non financial business services and capacity strengthening to small and medium scale agro-processors		M	Number of agro-processors trained	-	5	5	10	20
						M	Number of medium agroproducers trained	-	2	10	20	40
Focus Area 3: Sustainable Land and Water Management												
Component 3.1: Sustainable agricultural land management												
Increase area under sustainable land management	Agricultural area (ha) under SLM increased	100,000	250,000	Promote technologies that maintain soil fertility and water management	DLRC	H	No of groups receiving CA advice and planting material	5,400	280	560	1,120	1,240
	Estimated total soil loss (MT/ha/year)	20	13		DLRC	H	No of hectares under conservation agriculture	47,526	10,000	17,500	25,000	77,500
					DLRC	H	No of hectares under agro-forestry	49,858	10,000	15,000	20,000	25,000
				Promote community-based dambo management	DLRC	L	Number of dambos (10ha) with agreement for sustainable land use	-	27	54	81	108
				Prevent river banks degradation	DLRC	L	Length of streams/river bank protected for sustainable land use (km)	3,264	350	350	350	350

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Strategic Objective	Final outcome indicator	Status 2010/11	Target 2014/15	Action	Resp. Inst.	Priority	Output indicator	Status 2010/11	Target 2011/12	Target 2012/13	Target 2013/14	Target 2014/15
Component 3.2: Sustainable agricultural water management												
Increase area (ha) under sustainable irrigation through GBI	Area under sustainable irrigation (ha) increased	90,563	200,000	Rehabilitate existing irrigation schemes and construct new ones through the Greenbelt Initiative	DOI	H	Number of hectares under rehabilitated irrigation schemes	29,000	1,000	1,000	1,000	1,000
				Strengthen technical capacity for irrigation management	DOI	H	Number farmer groups receiving advice about irrigation techniques	1,000	130	140	150	160
	No of farmers growing irrigated crops	660,000	740,000	Develop new irrigation schemes with appropriate systems	DOI	H	Number of hectares under new irrigation schemes	2,000	20,000	23,000	26,000	28,000
				Establish rainwater harvesting systems (dams, box ridges)	DOI	H	Number of dams constructed	10	3	3	3	3
					DOI	H	Number of dams rehabilitated	15	5	5	5	5
				Promote water users associations	DOI	M	Number of Water Users Associations formed	11	60	100	100	150
					DOI	M	Number of WUA trained in technical and managerial capacities	60	65	70	75	80
				Stocking of dams in rural areas and irrigation schemes	FISHERIES DEPT		Number of dams stocked	4	6	10	14	18
4. Key support service: Technology generation and dissemination												

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Strategic Objective	Final outcome indicator	Status 2010/11	Target 2014/15	Action	Resp. Inst.	Priority	Output indicator	Status 2010/11	Target 2011/12	Target 2012/13	Target 2013/14	Target 2014/15
Component 4.1: Results and market oriented research on priority technology needs and provision of technical and regulatory services												
Increase maize productivity				Develop improved varieties	DARS	H	Number of improved varieties released	6	2	2	1	1
				Multiply breeder seed	DARS	H	Quantities of breeder seed multiplied (Kg)	5,000	5,000	6,000	7,000	8,000
				Increase distribution of improved maize seed	DARS	H	Quantities of maize basic seed produced (MT)	5	10	15	20	25
					DARS	H	Quantities of commercial improved seed certified (MT)	500	1,000	1,500	2,000	2,500
Decrease on farm pre and post harvest losses				Identify integrated post harvest technologies	DARS	H	No of new post harvest technologies identified and approved	3	3	4	4	5
Increase legumes and pulses productivity				Develop new pulses varieties	DARS	H	No. of new pulses varieties released	12	-	3	5	1
				Multiply breeder and basic pulse seed	DARS	H	Quantities of breeder pulses seed produced (MT)	600	7	9	9	9
					DARS	H	Qty of certified commercial pulses seed (MT)	60	75	90	105	120
				Conduct pulses seed quality control	DARS		Number of hectares inspected	1,000	700	800	1,000	1,000

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Strategic Objective	Final outcome indicator	Status 2010/11	Target 2014/15	Action	Resp. Inst.	Priority	Output indicator	Status 2010/11	Target 2011/12	Target 2012/13	Target 2013/14	Target 2014/15
Increase HH horticultural crops productivity				Develop improved horticultural technologies	DARS	M	Number of technical messages released related to horticulture	-	2	3	4	5
					DARS	M	Number of horticulture technologies released	10	11	12	13	14
					DARS	M	Number of farmers groups involved in horticulture seed multiplication	-	8	9	10	11
					DARS	M	Horticulture estimation methodology produced and distributed		-	-	1	-
Increase root and tubers crops productivity				Develop mother nurseries (vegetative multiplication)	DARS	L	Area under mother nurseries (ha)	15	20	30	40	50
					DARS	L	Construct/rehabilitate tissue culture laboratory	2	2	-	1	-
Increased unit value of agricultural export ('000 MK/MT) by commodity				Improve compliance to market standards (grading, packaging)	DARS	M	Number of SPS laboratories set up	-	1	2	3	1

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Strategic Objective	Final outcome indicator	Status 2010/11	Target 2014/15	Action	Resp. Inst.	Prio rity	Output indicator	Status 2010/11	Target 2011/12	Target 2012/13	Target 2013/14	Target 2014/15
					DARS	M	Number of import permits and export licenses issued	4,000	4,000	5,000	6,000	7,000
					DARS	M	Number of technicians/inspectors trained in SPS	-	10	20	30	40
				Enhance border posts-produce inspections	DARS	M	Number of border posts infrastructure provided	-	1	2	2	-
Increase volume of high-value commodities for agro-processing				Develop local dairy feed formulation	DARS	L	Number of local feed formulae developed	2	-	1	-	1
				Develop local poultry feed formulae	DARS	L	Number of poultry feed technologies released	2	-	1	1	-
				Develop and adapt agro-processing technologies	DARS	H	Number of root crop agro-processing technologies released	2	-	1	-	1
Increase area (ha) under sustainable land management (SLM)				Develop soil fertility and water conservation technologies	DARS	H	Number of Soil and water conservation technologies developed	-	4	4	4	4

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Strategic Objective	Final outcome indicator	Status 2010/11	Target 2014/15	Action	Resp. Inst.	Priority	Output indicator	Status 2010/11	Target 2011/12	Target 2012/13	Target 2013/14	Target 2014/15
Increase area (ha) under sustainable irrigation				Rehabilitate existing irrigation infrastructure in research stations	DARS	H	Number of infrastructure rehabilitated	-	4	2	3	-
				Encourage adoption of appropriate fish farming technologies	FISHERIES DEPT		No of fish farming technologies adopted	3	2	2	2	2
				Promote exploratory surveys for under exploited fish stocks	FISHERIES DEPT		Tonnage of fish from off shore	7000	15000	20000	22000	25000
Component 4.2: Efficient farmer-led extension and training services												
Increase maize productivity	Rate of adoption of priority technologies increased	40%	70%	Promote good agricultural practices (GAP)	DAES	H	Number of farmers receiving advice on maize varieties and GAP	600,000	990,000	1,177,500	1,290,000	1,440,000
Decrease on farm pre and post harvest losses				Promote improved on-farm storage technologies (food, seed)	DAES	H	Number of farmers receiving training and tools on storage technologies (physical, chemical)	600,000	990,000	1,177,500	1,290,000	1,440,000
				Disseminate messages on post harvest handling	DAES	L	Number of messages on post harvesting	4	4	5	5	6

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Strategic Objective	Final outcome indicator	Status 2010/11	Target 2014/15	Action	Resp. Inst.	Priority	Output indicator	Status 2010/11	Target 2011/12	Target 2012/13	Target 2013/14	Target 2014/15
Increase legumes and pulses productivity				Promote new varieties and good agricultural practices for legumes	DAES	H	No. of farmers receiving advice on legumes GAP (incl. indigenous vegetables)	600,000	700,000	800,000	900,000	1,000,000
Increase HH horticultural crops productivity				Promote dissemination of improved technologies in horticulture	DAES	M	Number of farmers being trained in horticulture techniques	-	5,000	5,000	5,000	5,000
Increase volume of high-value commodities for agro-processing				Provide research, extension and marketing services for irrigation systems users	DAES	M	Number of farmer groups receiving advice on irrigation production and marketing of rice/horticulture	1,000	1,200	1,400	1,600	1,800
					DAES	M	Quantities of improved rice seed multiplied(MT)	300	400	500	650	850
Increased unit value of commodities (financial & non-financial support services)				Increase knowledge and skills in agro-processing technologies	DAES	H	Number of extension staff trained in agro-processing technologies and equipment for activities	30	300	250	100	100
					DAES	M	Number of farmer groups trained in agro-processing	70	100	150	100	24

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Strategic Objective	Final outcome indicator	Status 2010/11	Target 2014/15	Action	Resp. Inst.	Prio rity	Output indicator	Status 2010/11	Target 2011/12	Target 2012/13	Target 2013/14	Target 2014/15
					DAES	M	Facilitate procurement of agro-processing machinery	70	100	150	100	25
5. Key support service: Institutional strengthening and Capacity building												
Component 5.1: Strengthening public management systems												
Strengthen mobility in the ministry and districts				Undertake Procurement services	DFA	H	Number of motor vehicles procured	68	40	40	40	40
					DFA	H	Number of motor cycles procured	300	100	100	100	100
Improve infrastructure quantity and quality				Rehabilitation of soil and seed laboratories at Chitedze	DARS/ DFA	M	Number of laboratories rehabilitated	-		1	1	1
				Rehabilitate staff houses	DFA	M	Number staff houses and offices rehabilitated		30	30	30	30
				Construct staff houses	DFA	M	Number of offices rehabilitated		30	30	30	30
				Upgrade institutional training infrastructure	DFA	M	Number of training centres upgraded	2	3	3	3	3
				Rehabilitation of district agriculture offices	DFA	M	Number staff houses and offices constructed		1	1	1	1

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Strategic Objective	Final outcome indicator	Status 2010/11	Target 2014/15	Action	Resp. Inst.	Prio rity	Output indicator	Status 2010/11	Target 2011/12	Target 2012/13	Target 2013/14	Target 2014/15
				Rehabilitation of buildings for weather observation stations	DFA	M	Number of buildings rehabilitated	-	2	2	2	2
Improve equipment quantity and quality				Procure assorted office equipment	DFA	M	Assorted equipment procured		25	25	25	25
				Procure Laboratory Research equipment	DFA	M	Laboratory Research equipment procured	-		1	-	1
				Procure Weather stations Equipment and spare parts	DFA	M	Weather stations Equipment and spare parts procured	-	100	100	50	50
				Procure Farm inputs and equipments for Land Conservation and crop Experimentation	DFA	M	Farm inputs procured	-	1	-	-	-
Improved monitoring of agricultural programs and interventions		Not done		Develop and implement monitoring and reporting systems of ASWAp interventions	DAPS		Number of monitoring reports prepared and submitted timely		4	4	4	4
		Done quarterly		Conduct ASWAp reviews			Review report		4	4	4	4
		Done quarterly and annually		Production of the agricultural statistical bulletins	DAPS	M	Number of issues of statistical bulletins		5	5	5	5

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Strategic Objective	Final outcome indicator	Status 2010/11	Target 2014/15	Action	Resp. Inst.	Priority	Output indicator	Status 2010/11	Target 2011/12	Target 2012/13	Target 2013/14	Target 2014/15
		Done quarterly		Policy review and Preparation of development programmes under ASWAp	DAPS		Number of development programmes developed		4	4	4	4
Improved planning of agricultural programs and interventions		Done annually		Preparation of budgets and annual work plans for the Ministry	DAPS		Approved annual budget		1	1	1	1
		Done quarterly		expenditure tracking assessment	DAPS		Number expenditure tracking reports		4	4	4	4
Strengthen routine administrative, financial and human resource management functions		Done quarterly		Provide adequately for office services	DFA		Number of procurement reports		4	4	4	4
		Done quarterly		Keeping and maintaining financial records	DFA		Number financial management reports		4	4	4	4
		Done quarterly		Keeping and maintaining human resource records	DFA		Number human resource management reports		4	4	4	4
Reliable Network					ICT							
				Rehabilitate and extend the current GWAN network infrastructure - Hdqrs	ICT		No of GWAN network points linked to main switch	79	291	350	350	350

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Strategic Objective	Final outcome indicator	Status 2010/11	Target 2014/15	Action	Resp. Inst.	Prio rity	Output indicator	Status 2010/11	Target 2011/12	Target 2012/13	Target 2013/14	Target 2014/15
				Rehabilitate and extend the current LAN infrastructure in ADDs	ICT		No of intranet, internet and Email services users	135	280	325	725	725
				Provide LAN infrastructure in Salima and Shire Valley ADDs	ICT			0	0	140	390	725
Internet and Email Services using VPN technology	Increased access to and reduced costs of internet and email services			Connect all Adds to Ministry Hdqrs.	ICT		No of intranet, internet and Email services users extended	0	0	56	127	0
				Provide Video conferencing services	ICT		A state of the art ICT, digitisation and Video Conferencing equipment	0	0	1	1	5
				Provide secure internet and email facilities	ICT		No of computers installed with Anti-Virus	87	142	150	725	725
	Updated www.moafsmw.org website			Acquire Website Development consultancy services to redesign the current website	ICT		No of users accessing the website	0	0	50	1250	5000
	Effective network points			Procure network infrastructure accessories	DFA/Procurement		Number of users	87	142	150	725	725
	State of the art ICT equipment			Procure ICT equipment	DFA/Procurement		No of ADDs connected to VPN	0	0	3	4	2

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Strategic Objective	Final outcome indicator	Status 2010/11	Target 2014/15	Action	Resp. Inst.	Priority	Output indicator	Status 2010/11	Target 2011/12	Target 2012/13	Target 2013/14	Target 2014/15
Digitisation of manual records	Manual documents turned into electronic records			Identify and classify important records	ICT/National Archives		No of institutions	0	0	2	5	7
Agriculture Cadastral Management Information System (AGRICAMIS)	A geographically and integrated Agriculture Management Information System (AGMIS)			Collect data and conduct feasibility studies for AGRICAMIS, AGMIS and AMIS	ICT		No of visits	0	0	3	0	0
				Analyse data and produce feasibility study report	ICT		No of reports	0	0	2	0	0
				Design and develop AGRICAMIS, AGMIS and AMIS	ICT			0	0	2	0	0
				Acquire AGRICAMIS, AGMIS and AMIS consultancy services	ICT		No of consultancies	0	0	0	2	0
				Install AGRICAMIS, AGMIS and AMIS	ICT		No of ADDs	0	0	0	3	6
				Link AGRICAMIS and AGMIS regional and international bodies	ICT		No of organisations accessing AGRICAMIS	0	0	0	1	2
HRMIS and IFMIS Rollout in ADDs	A timely updated HR database and production of payroll and financial documents			Install HRMIS and IFMIS	ICT		No of ADDs using HRMIS and IFMIS	0	0	0	2	7

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Strategic Objective	Final outcome indicator	Status 2010/11	Target 2014/15	Action	Resp. Inst.	Priority	Output indicator	Status 2010/11	Target 2011/12	Target 2012/13	Target 2013/14	Target 2014/15
Transport Information Management System Rollout in ADDs	Trucking of institutional vehicles			Install Transport Management Information System	ICT		No of ADDs using Transport Management Information System	0	0	0	2	7
Asset Management Information System (AMIS)	An automated Ledger of the Ministry's assets			Install Asset Management Information System (AMIS)	ICT		No of records computerised	0	0	0	1250	7000
				Upgrade institutional infrastructure	FISHERIES DEPT		No of centres upgraded	7	1	1	1	1
							No of laboratory facilities developed	5	0	1	0	0
				Procure lab, enforcement and research equipment	FISHERIES DEPT		Assorted equipment procured					
							No of research vessels and accessories procured	1	0	0	1	0
							No of patrol boats procured	2	1	1	7	2
Component 5.2: Capacity building of the public and private sector												
Strengthening institutional capacity				Collaborate continuously with partners	DAES/ OPC	L	Number of technical meetings conducted	-	4	4	4	4

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Strategic Objective	Final outcome indicator	Status 2010/11	Target 2014/15	Action	Resp. Inst.	Prio rity	Output indicator	Status 2010/11	Target 2011/12	Target 2012/13	Target 2013/14	Target 2014/15
				Conduct stakeholder meetings with government sectors, NGO, Bilateral and multilateral partners and the private sector	DAES/ OPC	L	Number of stakeholder meetings, annual and bi-annual, and consultative for establishment of a business coalition for nutrition	-	4	4	4	4
				Coordinate creation of gender, nutrition, HIV and AIDS officers positions in ASWAp line ministries and departments	DAES/ OPC	L	Departments with gender, HIV/AIDS and nutrition offices positions	3	10	10	15	20
				Institutionalize farmer-led extension services	DAES/ OPC	M	Number of male and female staff trained on developed concept	-	1,000	1,000	1,000	1,000
				Revise agriculture extension policy	DAES/ OPC	L	Policy revised to include private extension service provision	-	1	1	1	1
				Formulate strategies in response to farmer demand	DAES/ OPC	L	Number of strategies developed	1	3	3	3	3
				Strengthen stakeholder panels	DAES/ OPC	L	Number of stakeholder panels oriented	84	100	100	50	50

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Strategic Objective	Final outcome indicator	Status 2010/11	Target 2014/15	Action	Resp. Inst.	Priority	Output indicator	Status 2010/11	Target 2011/12	Target 2012/13	Target 2013/14	Target 2014/15
				Capacity assessment studies for agricultural institutions in Malawi	DAPS	M	Number of Institutions		1	1		
Improve capacity of staff in the ministry	Staff vacancy rate (%) reduced	31%	12%	Recruit technical experts	CHRM	M	Number of consultants hired	-	2	2	2	2
				Recruit staff	CHRM	M	Number of staff recruited	-	200	200	250	250
	Capacity building programme in place	N	Y	Carry out sector wide capacity building assessment		M	Report		1			
				Implement institutional reform programme		M	Number of meetings			1	1	1
				Conduct orientation of newly recruited staff in policies and programs	CHRM	L	Number of orientation sessions conducted	-	200	200	250	250
				Implement long term training programme international	CHRM	H	Number of staff trained	-	50	50	50	50
				Implement long term training programme national	CHRM	H	Number of staff trained	-	50	50	50	50
				Implement short training programme	CHRM	H	Number of staff trained		500	500	500	500
				Conduct short term training for subject matter specialists	CHRM	H	Number of workshops conducted		15	15	15	15

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Strategic Objective	Final outcome indicator	Status 2010/11	Target 2014/15	Action	Resp. Inst.	Prio rity	Output indicator	Status 2010/11	Target 2011/12	Target 2012/13	Target 2013/14	Target 2014/15
Increased capacity of ICT knowledge and skills in the ministry	Increased number of staff effectively performing their duties			Conduct ICT sensitisation workshops for ICT officers	ICT		No of meetings	0	0	3	0	0
				Conduct short term training for ICT specialists	ICT		No of ICT workshops conducted	0	14	14	14	14
				Conduct basic ICT training for support staff	ICT		No of ICT workshops conducted	0	0	0	3	0
				Attend professional short term courses	ICT		No of officers	0	0	0	4	4
				Attend professional long term courses	ICT		No of officers	0	0	1	3	4
				Attend project management courses	ICT		No of officers	0	0	2	2	1
	M&E, HR, planning and financial management systems functioning			Conduct preparatory baselines	DAPS	H	Number of baseline		1		1	
				Agriculture statistical systems development		H	Number of statistical Reports		4	4	4	4
				Carryout cost benefit analyses		H	Number of reports		1	1	1	1

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Strategic Objective	Final outcome indicator	Status 2010/11	Target 2014/15	Action	Resp. Inst.	Priority	Output indicator	Status 2010/11	Target 2011/12	Target 2012/13	Target 2013/14	Target 2014/15
				Carryout Core Function analysis and capacity assessments		H	Number of reports		2	2	2	2
				Studies on adoption and qualitative feedback on activities	DAPS	L	Number of studies		3	3	3	3
				International technical assistance on: Planning & Budgeting	CHRM	L	Number of TAs in place		12	12	12	12
				National technical assistance on: Planning and Budgeting	CHRM	L	Number of TAs in place		12	12	12	12
				International technical assistance on: M&E	CHRM	M	Number of TAs in place		12	12	12	12
				National technical assistance on: M&E	CHRM	L	Number of TAs in place		12	12	12	12
				International technical assistance on: Financial Management	CHRM	L	Number of TAs in place		12	12	12	12

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Strategic Objective	Final outcome indicator	Status 2010/11	Target 2014/15	Action	Resp. Inst.	Prio rity	Output indicator	Status 2010/11	Target 2011/12	Target 2012/13	Target 2013/14	Target 2014/15
				National technical assistance on: Financial management	CHRM	L	Number of TAs in place		12	12	12	12
				International technical assistance on:HRM	CHRM	L	Number of TAs in place		12	12	12	12
				National technical assistance on: HRM	CHRM	L	Number of TAs in place		12	12	12	12
				Carry out strategic environmental assessment		L	Number of reports		1			1
				Recruit and train technical staff	FISHERIES DEPT		No of frontline staff trained	150	50	50	50	50
				Conduct short term training for public and private sector	FISHERIES DEPT		No of training workshops	40	15	15	15	15
				Enhance community outreach programmes	FISHERIES DEPT		No of outreach programmes	112	150	175	188	210
6. Cross cutting issues												
Component 6.1: Mainstreaming of gender and HIV/AIDS												
HIV related morbidity and mortality minimized	Proportion of staff accessing supplementary feeding at workplace	3.4%	7.0%	Increase capacity of staff and farmer to mainstream gender, HIV and AIDS in ASWAP interventions	DAES/ OPC	H	Number of staff trained	963	1,200	1,600	2,000	2,400

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Strategic Objective	Final outcome indicator	Status 2010/11	Target 2014/15	Action	Resp. Inst.	Prio rity	Output indicator	Status 2010/11	Target 2011/12	Target 2012/13	Target 2013/14	Target 2014/15
				Promote accountability to gender, HIV and AIDS mainstreaming among ASWAp implementers	DAES/ OPC	M	Policies reviewed		1	2	2	2
	Reduced staff attrition			Sensitise staff on HIV and AIDS	DAES/ OPC	M	Number of sessions conducted		200	200	200	200
Gender disparities reduced	% of vulnerable groups (incl. women, youth, elderly) accessing FISP	47%	50%	Generate and disseminate knowledge on gender, HIV and AIDS in the agricultural sector	DAES/ OPC	M	Number of action research studies conducted	-	3	3	3	4
	% of vulnerable people involved in decision making	30%	50%	Develop and implement visibility strategy for gender, HIV and AIDS mainstreaming	DAES/ OPC	L	Visibility strategy developed	-	1	1	1	1
				Establish focal points for gender and HIV/AIDS	DAES/ OPC	L	Number of focal points established	-	2	-	-	-
					DAES/ OPC	L	Number of farmer groups trained	963	500	550	650	700

APPENDIX 4: DETAILED BUDGET (US\$)

Strategic Objective	Final outcome indicator	Action	Resp. Inst.	Output indicator	Unit cost (\$US)	Budget 2011/12	Budget 2012/13	Budget 2013/14	Budget 2014/15	TOTAL
Focus Area 1: Food Security and Risk Management										
Component 1.1: Maize self-sufficiency										
a. Increase maize productivity	Average maize yield (MT/ha) increased	Implement the input (maize seed + fertilizer) subsidy programme	DAPS/ DCP	Number of farmers receiving vouchers for fertilizer subsidy	50	80,000,000	80,000,000	80,000,000	80,000,000	320,000,000
				Number of farmers receiving vouchers for maize seed subsidy	25	40,000,000	40,000,000	40,000,000	40,000,000	160,000,000
			DAPS/ DCP	Recurrent cost for Input subsidy programme	35,000,000	35,000,000	35,000,000	35,000,000	35,000,000	140,000,000
		Promote good agricultural practices (GAP)	DAES	Number of farmer groups involved in improved seed multiplication	100	10,000	12,000	14,000	16,000	52,000
		Train staff in seed multiplication	DCP	Number of staff trained	500	150,000	200,000	250,000	300,000	900,000
		Train farmers in seed multiplication	DCP	Number of farmers trained	100	100,000	200,000	300,000	400,000	1,000,000
b. Decrease on farm pre and post harvest losses	% of post-harvest losses	Fabricate and distribute mettalic silos	DCP	Number of silos fabricated and distributed	100	68,000	81,000	97,500	117,500	364,000
		Train local artisans in metallic silos fabrication		Number of artisans trained	100	28,000	27,000	27,000	27,000	109,000
		Construct cement silos for seeds	DCP	No. of cement silos constructed	350	35,000	59,500	75,250	87,500	257,250

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Strategic Objective	Final outcome indicator	Action	Resp. Inst.	Output indicator	Unit cost (\$US)	Budget 2011/12	Budget 2012/13	Budget 2013/14	Budget 2014/15	TOTAL
		Strengthen migratory pests monitoring and control	DCP	No. of hectares monitored and controlled	4	6,816,200	6,812,000	6,814,000	6,816,000	27,258,200
			DCP	Number of staff trained	500	150,000	200,000	250,000	300,000	900,000
			DCP	Number of farmers trained	100	100,000	200,000	300,000	400,000	1,000,000
Sub-total Component 1.1						162,457,200	162,791,500	163,127,750	163,464,000	651,840,450
Component 1.2: Diversification of food production and dietary diversification for improved nutrition at household level with focus on Crops, Livestock, and Fisheries										
Increase legumes and pulses productivity	Groundnut (MT/ha) productivity increased	Promote Input subsidy for legume seeds	DAPS/ DCP	Number of farmers receiving voucher for legume seeds subsidy	12	19,200,000	19,200,000	19,200,000	19,200,000	76,800,000
	Beans productivity	Promote legumes community seed banks	DCP/DARS	No of community legumes seed banks established	500	25,000	50,000	75,000	100,000	250,000
	Soy beans	Promote new varieties and good agricultural practices for legumes	DCP/DAES	No.of related technical messages developed	800	1,600	1,600	1,600	1,600	6,400
	Pigeon peas	Increase distribution of improved pulse seed	DCP	Quantities of basic pulse seed produced (MT)	10,000	3,000,000	3,000,000	3,000,000	3,000,000	12,000,000
			DCP	Number of farmer groups involved in pulse seed multiplication	500	5,000	10,000	15,000	20,000	50,000

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Strategic Objective	Final outcome indicator	Action	Resp. Inst.	Output indicator	Unit cost (\$US)	Budget 2011/12	Budget 2012/13	Budget 2013/14	Budget 2014/15	TOTAL
Increase hh horticultural crops productivity	Average plantain yield increased (mt/ha)	Promote dissemination of improved technologies in horticulture	DCP	Number of staff being trained in horticulture technologies	200	70,000	90,000	110,000	120,000	390,000
	Leafy vegetables (MT/ha)	Create enabling policy and regulatory environment for Horticulture	DCP	Number of policies	30,000	-	30,000	-	-	30,000
	Pineapple (mt/ha)		DCP/DAES	Number of fruit trees propagated through community or public nurseries	0.1	600,000	800,000	1,000,000	1,200,000	3,600,000
	Monetary Value of horticulture crops produce (million US\$)		DCP/ DAES	No. of backyard gardens promoted	60	30,000	36,000	42,000	48,000	156,000
	Prevalence Banana Bunchy Top (%)	Sensitize farmers on the presence of the disease and its control measures	DCP	Number of sensitization meetings	200	8,000	48,000	-	-	56,000
		Develop and disseminate messages on the impact of banana bunchy top disease	DCP	Number of posters developed and disseminated	1	800,000	800,000	-	-	1,600,000
		Demonstrate corrective community action	DCP	Number of demonstrations	300	24,000	60,000	-	-	84,000
			DCP	Number of mats destroyed	50	300,000	350,000	400,000	500,000	1,550,000

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Strategic Objective	Final outcome indicator	Action	Resp. Inst.	Output indicator	Unit cost (\$US)	Budget 2011/12	Budget 2012/13	Budget 2013/14	Budget 2014/15	TOTAL
		Propagate banana suckers using split corm method and distribute to affected farmers	DCP	Number of suckers propagated and distributed	10	40,000	50,000	80,000	100,000	270,000
Increase root and tubers crops productivity in relevant areas	Average cassava yield increased (MT/ha)	Multiplication and distribution of cassava and sweet potato improved planting materials	DCP	Quantities of cassava improved planting material (bundles) distributed	0	97,500	100,500	103,500	106,500	408,000
	Average sweet potato yield increased (MT/ha)		DCP	Quantities of sweet potato improved planting material (bags) distributed	0	48,600	50,400	51,600	53,400	204,000
Increase HH poultry meat and egg productivity	Number of chickens produced at national level increased	Provide vaccines / vaccination services against Newcastle disease	DAHLD	Number of NCD vaccine doses procured ('000)	2	44,000	132,000	210,000	300,000	686,000
	Poultry mortality (%)	Multiplying and de-worming of guinea fowls	DAHLD	No. of poultry groups supported	300	16,800	16,800	16,800	16,800	67,200
	National flock of guinea fowls increased (million)		DAHLD	No. of guinea fowls de-wormed and vaccinated	0	16,500	20,250	24,750	30,000	91,500
	Egg production (MT/year)	Increase availability of well trained livestock extension workers	DAHLD	Number of AVOs trained	120	24,000	30,000	30,000	60,000	144,000

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Strategic Objective	Final outcome indicator	Action	Resp. Inst.	Output indicator	Unit cost (\$US)	Budget 2011/12	Budget 2012/13	Budget 2013/14	Budget 2014/15	TOTAL
		Increase provision of veterinary services for poultry	DAHLD	Undertake refresher courses for Aides on poultry production and marketing	120	24,000	24,000	24,000	24,000	96,000
		Establish mini hatcheries	DAHLD	No. of mini hatcheries established	25,000	200,000	175,000	175,000	150,000	700,000
		Improve poultry feed quality	DAHLD	Number of farmers receiving information on adapted poultry feed training	150	60,000	198,000	242,400	111,600	612,000
			DAHLD	Number of mini feed mills established	7,200	7,200	21,600	21,600	28,800	79,200
Increase small stock productivity (goat)	Increased goat herd size (million)	Promote goat re-stocking and pass-on programmes	DAHLD	Number of farmer groups assisted with breeder goats	1,450	290,000	290,000	290,000	290,000	1,160,000
			DAHLD	Number of goats de-wormed	0	1,050,000	1,260,000	1,260,000	1,620,000	5,190,000
		Training of farmers in goat management	DAHLD	No of farmers groups trained	100	10,000	15,000	25,000	50,000	100,000
		Introduce drug-box services	DAHLD	No. of groups supported	10	580	1,160	2,320	4,640	8,700
	Increased goat milk production (L/day)	Promote keeping of improved dairy goat breeds	DAHLD	No. of organized groups participated in pass-on-programme	12,000	120,000	240,000	420,000	420,000	1,200,000

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Strategic Objective	Final outcome indicator	Action	Resp. Inst.	Output indicator	Unit cost (\$US)	Budget 2011/12	Budget 2012/13	Budget 2013/14	Budget 2014/15	TOTAL
	Increased rabbit herd size (million)	Promote rabbit re-stocking and pass-on programmes	DAHLD	Number of groups supported with rabbit breeds	200	6,000	6,000	6,000	6,000	24,000
Increase hh dairy production	Increased cow milk prod. (MT)	Import dairy animals	DAHLD	No of dairy animals	2,200	2,200,000	2,640,000	3,080,000	3,740,000	11,660,000
		Intensify cross breeding programmes	DAHLD	No of dairy animals	5	12,500	40,000	55,000	22,500	130,000
		Increase animal feed/fodder production and conservation	DAHLD	Silage tonnage achieved	5	90,000	300,000	400,000	175,000	965,000
		Intensify disease control programmes, vaccination and dipping	DAHLD	No of dairy animals de-wormed	10	300,000	350,000	450,000	500,000	1,600,000
		TB testing	DAHLD	No of dairy animals tested	2	50,000	60,000	70,000	80,000	260,000
		Mastitis control	DAHLD	No of dairy animals treated	2	20,000	20,000	30,000	30,000	100,000
Increase hh pig productivity	Increased pork production (MT)	Source genetically superior breeding stock	DAHLD	No of pigs sourced	950	760,000	950,000	1,235,000	1,425,000	4,370,000
		Intensity on-farm feed production	DAHLD	No of farmers trained	10	25,000	30,000	40,000	50,000	145,000
	Reduced pig mortality (%)	De-worming and vaccination of pigs against swine fever	DAHLD	No of healthy pigs	2	2,000,000	2,800,000	3,400,000	4,000,000	12,200,000

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Strategic Objective	Final outcome indicator	Action	Resp. Inst.	Output indicator	Unit cost (\$US)	Budget 2011/12	Budget 2012/13	Budget 2013/14	Budget 2014/15	TOTAL
Increased aquaculture productivity	Increased pond aquaculture production (Kg/ha)	Encourage adoption of appropriate technologies on off-shore fishing practices	FISHERIES DEPT	No. of village fish farming schemes established, training and materials included	10,000	10,000	10,000	10,000	10,000	40,000
		Promote improved fingerlings and fish feed production at smallholder level	FISHERIES DEPT	Number of fish ponds constructed	2,500	625,000	750,000	750,000	875,000	3,000,000
			FISHERIES DEPT	Number of fingerlings and fish feed producers trained	750	75,000	112,500	135,000	187,500	510,000
			FISHERIES DEPT	Number of feed formulae developed	10,000	20,000	20,000	20,000	20,000	80,000
		Restocking of dams in rural areas	FISHERIES DEPT	Number of dams restocked	10,000	300,000	600,000	600,000	650,000	2,150,000
		Promote Integrated Agriculture Aquaculture production	FISHERIES DEPT	No. of farmers practicing IAA	1,000	1,100,000	1,400,000	1,800,000	1,800,000	6,100,000
Nutrition improved	Proportion of farm families consuming dietary diversification	Develop and disseminate guidelines related to food processing, storage, utilization	DAES/ OPC	Guidelines and standardized messages developed and disseminated	20,000	60,000	60,000	60,000	60,000	240,000
	Number of food crops grown by Hh	Develop and disseminate IEC materials on same	DAES/ OPC	IEC materials developed and disseminated via promotion campaigns	30,000	90,000	120,000	150,000	180,000	540,000

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Strategic Objective	Final outcome indicator	Action	Resp. Inst.	Output indicator	Unit cost (\$US)	Budget 2011/12	Budget 2012/13	Budget 2013/14	Budget 2014/15	TOTAL
		Train Extension staff (TOT) and households	DAES/ OPC	No. farmers trained use of equipment and some recipes	10	1,600,000	1,600,000	1,600,000	1,600,000	6,400,000
			DAES/ OPC	No. extension staff groups trained (AEDOs)	5,000	500,000	500,000	500,000	500,000	2,000,000
		Conduct trainings for service providers	DAES/ OPC	Number of training sessions conducted	15,000	15,000	15,000	30,000	30,000	90,000
		Develop and disseminate recipes that use indigenous food to diversify diets	DAES/ OPC	No. of recipes technologies developed and disseminated	15,000	15,000	15,000	30,000	30,000	90,000
		Conduct consumer education on fortified foods	DAES/ OPC	Consumer education sessions conducted	15,000	15,000	30,000	30,000	15,000	90,000
		Conduct dietary monitoring and assessment	DAES/ OPC	Monitoring and assessments conducted	15,000	60,000	60,000	60,000	60,000	240,000
Sub-total Component 1.2						36,061,280	39,588,810	41,361,570	43,601,340	160,613,000
Component 1.3. Sustainable food availability at national level										
Risk management for food stability	Avoid national energy food gap	Improve management of the SGR & reduce storage losses	DAPS	Qty of grain stored in SGR (mt) Unit cost of storage US\$/MT	15	1,050,000	1,200,000	1,350,000	1,500,000	5,100,000
		Establish a warehouse receipt system	DAPS	Volume of maize stored under the warehouse receipt system (MT)	20	200,000	400,000	600,000	800,000	2,000,000

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Strategic Objective	Final outcome indicator	Action	Resp. Inst.	Output indicator	Unit cost (\$US)	Budget 2011/12	Budget 2012/13	Budget 2013/14	Budget 2014/15	TOTAL
		Promote village grain bank schemes	DAES	Number of village bank schemes operated	2,500	62,500	75,000	100,000	112,500	350,000
		Establish a maize market insurance system	PS	Premium paid for insurance	6,000,000	-	6,000,000	-	-	6,000,000
		Strengthen weather forecasting capability for agriculture	CAETS/ MET	Strong weather stations in all EPAs, districts and ADDs	5,000	250,000	375,000	500,000	625,000	1,750,000
		Carry monitoring programmes on fisheries resources	FISHERIES DEPT	No of monitoring surveys	3,750	3,750	3,750	3,750	3,750	15,000
				No. of data sets produced		-	-	-	-	-
		Carry out enforcement programmes	FISHERIES DEPT	No of patrols conducted	3,000	240,000	240,000	240,000	240,000	960,000
		Develop area-specific fishery management plans	FISHERIES DEPT	No. of management plan approved	2,500	7,500	2,500	2,500	2,500	15,000
		Encourage establishment of village fish farming schemes	FISHERIES DEPT	No. of village fish farming schemes established	10,000	10,000	10,000	-	10,000	30,000
				No of fish ponds constructed	2,500	750,000	1,875,000	375,000	625,000	3,625,000
Sub-total Component 1.3						2,573,750	10,181,250	3,171,250	3,918,750	19,845,000
Total Focus Area 1						201,092,230	212,561,560	207,660,570	210,984,090	832,298,450
Focus Area 2: Commercial Agriculture and market development										
Component 2.1. Agricultural export for improved balance of trade and income										

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Strategic Objective	Final outcome indicator	Action	Resp. Inst.	Output indicator	Unit cost (\$US)	Budget 2011/12	Budget 2012/13	Budget 2013/14	Budget 2014/15	TOTAL
Increase total value of agricultural exports	Volume of exports (million US\$)	Promote contract farming and producers' organizations	DCP/ DAPS	Number of FO engaging in contract farming for cash crops	2,000	30,000	60,000	80,000	150,000	320,000
	Increased export of Cotton	Train Prod. Org. members in agribusiness skills	DAPS	Number of FO members trained in agribusiness skills (management, accounting, quality control)	150	750,000	750,000	750,000	750,000	3,000,000
	Increased export of Sugar (MT)	Strengthen managerial and technical capacity of producer organizations.	DAPS	Number of FO members trained in quality control: post harvest grading/handling techniques	100	500,000	500,000	500,000	500,000	2,000,000
	Increased export of Tobacco (MT)	Promote dialogue between value chain stakeholders	DAPS	Number of value chain coordination mechanisms set-up	50,000	100,000	200,000	300,000	350,000	950,000
	Increased export of Tea (MT)	Strengthen capacity of value chain players	DAPS	Number of value chain stakeholders trained on value chain development, by commodity	500	75,000	75,000	75,000	75,000	300,000
			MoTI	Number of new agri-food export contracts facilitated by MEPC	1,000	2,000	15,000	25,000	35,000	77,000

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Strategic Objective	Final outcome indicator	Action	Resp. Inst.	Output indicator	Unit cost (\$US)	Budget 2011/12	Budget 2012/13	Budget 2013/14	Budget 2014/15	TOTAL
		Promote exports through market research studies export fair	DAPS	Number of commodity strategies developed	50,000	100,000	100,000	100,000	100,000	400,000
			DAPS	Number of export trade studies/ analysis, by commodity	50,000	250,000	250,000	250,000	250,000	1,000,000
Increased unit value of agricultural export ('000 MK/MT) by commodity	Increased unit value of tobacco	Improve compliance to market standards (grading, packaging)	DAPS/DAES	Number of value chain players trained in commodity handling, processing storage	1,000	50,000	50,000	100,000	100,000	300,000
	Increased unit value of cotton	Increase quality certification and regulatory services	DARS/ DAHLD	Number of product accreditation (PA) quality assurance (QA) and certification services (CS)	10,000	50,000	50,000	50,000	50,000	200,000
			MOTI/BOS	Number of quality assurance certificates issued	75	375,000	375,000	375,000	375,000	1,500,000
		Provide technical support to enhance output quality (seed)	ARET	Quantity of improved tobacco certified seed distributed (Kg)	200	40,000	60,000	80,000	100,000	280,000
			TRF	Area replanted with clonal tea bushes (ha)	2,500	62,500	62,500	62,500	62,500	250,000

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Strategic Objective	Final outcome indicator	Action	Resp. Inst.	Output indicator	Unit cost (\$US)	Budget 2011/12	Budget 2012/13	Budget 2013/14	Budget 2014/15	TOTAL
			Cotton Companies	Quantities of improved cotton seed (MT)	275	687,500	825,000	962,500	1,100,000	3,575,000
		Promote mechanisation	DCP	No. of ha under tractor hire scheme	250	2,500,000	2,500,000	2,500,000	2,500,000	10,000,000
			DCP	No of ha under oxenisation	130	2,160,000	2,160,000	2,160,000	2,160,000	8,640,000
			DCP	No. of hand planks distributed	50	600,000	1,750,000	2,500,000	3,000,000	7,850,000
		Promote labour saving technology	DCP	Number of sprayer	100	20,000	20,000	20,000	20,000	80,000
			DCP	Number of hactare under herbicides application	100	200,000	200,000	200,000	200,000	800,000
		Conduct review meeting on farm mechanisation and oxenisation efficiency in agriculture	DCP	Number of review meetings	20000	80,000	80,000	80,000	80,000	320,000
Sub-total Component 2.1						8,632,000	10,082,500	11,170,000	11,957,500	41,842,000
Component 2.2. Commercial production and agro-processing for import substitution and domestic market development										
Increase volume of high-value commodities for agro-processing	Increased milk production and processing (MT)	Provide dairy inputs and services	DAHLD	Number of high productive dairy heifers for demonstration and dissemination	2,200	2,750,000	2,750,000	2,750,000	2,750,000	11,000,000

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Strategic Objective	Final outcome indicator	Action	Resp. Inst.	Output indicator	Unit cost (\$US)	Budget 2011/12	Budget 2012/13	Budget 2013/14	Budget 2014/15	TOTAL
			DAHLD	Number of diary farmers trained in fodder production	100	200,000	250,000	300,000	400,000	1,150,000
			DAHLD	Number of farmers receiving advice on dairy husbandry	100	400,000	500,000	650,000	850,000	2,400,000
			DAHLD	Number of min dairy processors/cooling facilities provided on pilot basis to selected MBG	65,000	65,000	130,000	130,000	65,000	390,000
	Increased beef herd size (million)	Rehabilitate dip-tank infrastructure and strengthen technical and O&M capacities for their management	DAHLD	Number of cattle treated against ticks	2	900,000	1,000,000	1,100,000	1,200,000	4,200,000
			DAHLD	Number of dip tanks rehabilitated	3,570	357,000	357,000	357,000	1,428,000	2,499,000
			DAHLD	Number of dip-tank users management groups established and trained	1,700	170,000	170,000	170,000	680,000	1,190,000
		Conduct preventive vaccination (foot and mouth, anthrax, black leg) for beef production	DAHLD	Number of animals vaccinated against FMD	2	380,000	400,000	420,000	430,000	1,630,000

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Strategic Objective	Final outcome indicator	Action	Resp. Inst.	Output indicator	Unit cost (\$US)	Budget 2011/12	Budget 2012/13	Budget 2013/14	Budget 2014/15	TOTAL
			DAHLD	No of animals vaccinated against Black leg	2	500,000	600,000	700,000	800,000	2,600,000
			DAHLD	Number of animals vaccinated against LSD	2	500,000	600,000	700,000	800,000	2,600,000
		Intensify MBGs/Cooperatives	DAHLD	No of MBGs	2,500	37,500	100,000	160,000	70,000	367,500
	Increased red meat production and processing (MT)	Promote stall feeding	DAHLD	No of animals.	2,200	660,000	660,000	880,000	1,320,000	3,520,000
		Establish organized markets	DAHLD	No of markets	15,000	15,000	60,000	75,000	60,000	210,000
	Increased white meat production, processing	Train local broiler and pig feed formulation	DAHLD	No of farmers	150	67,500	195,000	255,000	112,500	630,000
	Increased egg prod. (MT)	promote local feed production and formulation	DAHLD	No of farmers	150	37,500	127,500	165,000	75,000	405,000
	Increased collection and quality of hides	Enhance information on hides and skin trade	DAHLD	No of technical messages	1,000	25,000	25,000	25,000	25,000	100,000
	Increased collection and quality of skins	Establish rural/mini abattoirs	DAHLD	No of rural abattoirs	50,000	300,000	200,000	300,000	200,000	1,000,000

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Strategic Objective	Final outcome indicator	Action	Resp. Inst.	Output indicator	Unit cost (\$US)	Budget 2011/12	Budget 2012/13	Budget 2013/14	Budget 2014/15	TOTAL
	Increased fish catch landing (MT)	Encourage adoption of appropriate on/off-shore fishing practices	FISHERIES DEPT	Number of fishermen receiving info about appropriate fishing practice	150	37,500	37,500	37,500	37,500	150,000
			FISHERIES DEPT	Number of off-shore fishing technology	50,000	100,000	100,000	100,000	100,000	400,000
			FISHERIES DEPT	Number of fishers receiving information and training about off-shore fishing	300	150,000	150,000	210,000	270,000	780,000
		Develop area-specific fishery management plans	FISHERIES DEPT	Number of management plan approved	50,000	150,000	200,000	200,000	200,000	750,000
		Promote adoption of sanitarian standards and hygiene for fish and fish products	FISHERIES DEPT	No of fish handling and processing facilities constructed	75,000	675,000	675,000	375,000	225,000	1,950,000
				No of processors and fishers trained	150	37,500	45,000	52,500	60,000	195,000
		Promote improved fingerlings and fish feed production at smallholder level	FISHERIES DEPT	No of feed formulations produced	10,000	20,000	10,000	10,000	10,000	50,000
				No of fingerlings produced	5	14,000,000	14,000,000	15,000,000	20,000,000	63,000,000

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Strategic Objective	Final outcome indicator	Action	Resp. Inst.	Output indicator	Unit cost (\$US)	Budget 2011/12	Budget 2012/13	Budget 2013/14	Budget 2014/15	TOTAL
				No. of hatcheries operational	1,750	8,750	8,750	8,750	8,750	35,000
				Number of certified feed and fingerling producers	750	22,500	26,250	30,000	33,750	112,500
		Encourage adoption of appropriate technologies on off-shore fishing	FISHERIES DEPT	No of offshore fishing technologies adopted	50,000	100,000	50,000	-	50,000	200,000
Increased unit value of commodities (financial & non-financial support services)	Household agricultural income (USD/year)	Promote group and individual small scale agro-processing (e.g. horticulture, cassava, potato, pulses)	DCP	Number of cassava and sweet potato processing groups set up	500	35,000	40,000	45,000	50,000	170,000
	Increased red meat production and processing (MT)	Promote stall feeding	DAHLD	No of animals.	2,200	660,000	660,000	880,000	1,320,000	3,520,000
		Establish organized markets	DAHLD	No of markets	15,000	15,000	60,000	75,000	60,000	210,000
	Increased white meat production, processing	Train local broiler and pig feed formulation	DAHLD	No of farmers	150	67,500	195,000	255,000	112,500	630,000
	Increased egg prod. (MT)	promote local feed production and formulation	DAHLD	No of farmers	150	37,500	127,500	165,000	75,000	405,000
	Increased collection and quality of hides	Enhance information on hides and skin trade	DAHLD	No of technical messages	1,000	25,000	25,000	25,000	25,000	100,000

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Strategic Objective	Final outcome indicator	Action	Resp. Inst.	Output indicator	Unit cost (\$US)	Budget 2011/12	Budget 2012/13	Budget 2013/14	Budget 2014/15	TOTAL
	Increased collection and quality of skins	Establish rural/mini abattoirs	DAHLD	No of rural abattoirs	50,000	300,000	200,000	300,000	200,000	1,000,000
	Increased fish catch landing (MT)	Encourage adoption of appropriate on/off-shore fishing practices	FISHERIES DEPT	Number of fishermen receiving info about appropriate fishing practice	150	37,500	37,500	37,500	37,500	150,000
			FISHERIES DEPT	Number of off-shore fishing technology	50,000	100,000	100,000	100,000	100,000	400,000
			FISHERIES DEPT	Number of fishers receiving information and training about off-shore fishing	300	150,000	150,000	210,000	270,000	780,000
		Develop area-specific fishery management plans	FISHERIES DEPT	Number of management plan approved	50,000	150,000	200,000	200,000	200,000	750,000
			DCP	Number of cassava and sweet potato processing equipment distributed	2,500	110,000	209,000	286,000	330,000	935,000
		Dessiminate information on small scale crop processing	DCP	Number of farmers receiving information about transformation technologies for root crops	35	175,000	175,000	350,000	350,000	1,050,000
Sub total Component 2.2						24,528,250	25,606,000	28,089,250	35,390,500	113,614,000

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Strategic Objective	Final outcome indicator	Action	Resp. Inst.	Output indicator	Unit cost (\$US)	Budget 2011/12	Budget 2012/13	Budget 2013/14	Budget 2014/15	TOTAL
Component 2.3 Input and output market development through Private public partnership										
	Reduced spatial and temporal variability of prices	Expand market information system		Number of MIS bulletin	1,000	50,000	50,000	50,000	50,000	200,000
				Number of radio programmes prepared on MIS	1,000	5,000	5,000	5,000	5,000	20,000
		Built and rehabilitate market infrastructure		Number of wholesale markets built	20,000	100,000	100,000	100,000	100,000	400,000
				Number of new collection points built	1,000	25,000	25,000	25,000	25,000	100,000
				Number of retail markets rehabilitated	15,000	150,000	150,000	150,000	150,000	600,000
	Access to credit by small and medium scale agro-processors and traders	Financial leverage systems for private agro business development (Matching grants)		Number of systems developed and tested	1,500,000	-	1,500,000	-	-	1,500,000

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Strategic Objective	Final outcome indicator	Action	Resp. Inst.	Output indicator	Unit cost (\$US)	Budget 2011/12	Budget 2012/13	Budget 2013/14	Budget 2014/15	TOTAL
		Provide non financial business services and capacity strengthening to small and medium scale agro-processors		Number of agro-processors trained	5,000	25,000	25,000	50,000	100,000	200,000
				Number of medium agroproducers trained	5,000	10,000	50,000	100,000	200,000	360,000
Sub-total Component 2.3						365,000	1,905,000	480,000	630,000	3,380,000
Sub-total Focus Area 2						33,525,250	37,593,500	39,739,250	47,978,000	158,836,000
Focus Area 3: Sustainable Land and Water Management										
Component 3.1: Sustainable agricultural land management										
Increase area under sustainable land management	Agricultural area (ha) under SLM increased	Promote technologies that maintain soil fertility and water management	DLRC	No of groups receiving CA advice and planting material	500	140,000	280,000	560,000	620,000	1,600,000
	Estimated total soil loss (MT/ha/year)		DLRC	No of hectares under conservation agriculture	150	1,500,000	2,625,000	3,750,000	11,625,000	19,500,000
			DLRC	No of hectares under agro-forestry	500	5,000,000	7,500,000	10,000,000	12,500,000	35,000,000
		Promote community-based dambo management	DLRC	Number of dambos (10ha) with agreement for sustainable land use	400	10,800	21,600	32,400	43,200	108,000

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Strategic Objective	Final outcome indicator	Action	Resp. Inst.	Output indicator	Unit cost (\$US)	Budget 2011/12	Budget 2012/13	Budget 2013/14	Budget 2014/15	TOTAL
		Prevent river banks degradation	DLRC	Length of streams/river bank protected for sustainable land use (km)	580	203,000	203,000	203,000	203,000	812,000
Sub-total component 3.1						6,853,800	10,629,600	14,545,400	24,991,200	57,020,000
Component 3.2: Sustainable agricultural water management										
Increase area (ha) under sustainable irrigation through GBI	Area under sustainable irrigation (ha) increased	Rehabilitate existing irrigation schemes and construct new ones through the Greenbelt Initiative	DOI	Number of hectares under rehabilitated irrigation schemes	3,000	3,000,000	3,000,000	3,000,000	3,000,000	12,000,000
		Strengthen technical capacity for irrigation management	DOI	Number farmer groups receiving advice about irrigation techniques	4,000	520,000	560,000	600,000	640,000	2,320,000
	No of farmers growing irrigated crops	Develop new irrigation schemes with appropriate systems	DOI	Number of hectares under new irrigation schemes	9,000	90,000,000	90,000,000	90,000,000	90,000,000	360,000,000
		Establish rainwater harvesting systems (dams, box ridges)	DOI	Number of dams constructed	280,000	840,000	840,000	840,000	840,000	3,360,000
			DOI	Number of dams rehabilitated	150,000	750,000	750,000	750,000	750,000	3,000,000
		Promote water users associations	DOI	Number of Water Users Associations formed	2,200	132,000	220,000	220,000	330,000	902,000

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Strategic Objective	Final outcome indicator	Action	Resp. Inst.	Output indicator	Unit cost (\$US)	Budget 2011/12	Budget 2012/13	Budget 2013/14	Budget 2014/15	TOTAL
			DOI	Number of WUA trained in technical and managerial capacities	7,200	468,000	504,000	540,000	576,000	2,088,000
		Stocking of dams in rural areas and irrigation schemes	FISHERIES DEPT	Number of dams stocked	175,000	1,050,000	1,750,000	2,450,000	3,150,000	8,400,000
Sub-total component 3.2						186,760,000	214,624,000	242,400,000	261,286,000	905,070,000
Sub-total Focus Area 3						193,613,800	225,253,600	256,945,400	286,277,200	962,090,000
4. Key support service: Technology generation and dissemination										
Component 4.1: Results and market oriented research on priority technology needs and provision of technical and regulatory services										
Increase maize productivity		Develop improved varieties	DARS	Number of improved varieties released	10,000	20,000	20,000	10,000	10,000	60,000
		Multiply breeder seed	DARS	Quantities of breeder seed multiplied (Kg)	10	50,000	60,000	70,000	80,000	260,000
		Increase distribution of improved maize seed	DARS	Quantities of maize basic seed produced (MT)	5,000	50,000	75,000	100,000	125,000	350,000
			DARS	Quantities of commercial improved seed certified (MT)	50	50,000	75,000	100,000	125,000	350,000
Decrease on farm pre and post harvest losses		Identify integrated post harvest technologies	DARS	No of new post harvest technologies identified and approved	20,000	60,000	80,000	80,000	100,000	320,000

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Strategic Objective	Final outcome indicator	Action	Resp. Inst.	Output indicator	Unit cost (\$US)	Budget 2011/12	Budget 2012/13	Budget 2013/14	Budget 2014/15	TOTAL
Increase legumes and pulses productivity		Develop new pulses varieties	DARS	No. of new pulses varieties released	8,000	-	24,000	40,000	8,000	72,000
		Multiply breeder and basic pulse seed	DARS	Quantities of breeder pulses seed produced (MT)	5,000	35,000	45,000	45,000	45,000	170,000
			DARS	Qty of certified commercial pulses seed (MT)	75	5,625	6,750	7,875	9,000	29,250
		Conduct pulses seed quality control	DARS	Number of hectares inspected	50	35,000	40,000	50,000	50,000	175,000
Increase HH horticultural crops productivity		Develop improved horticultural technologies	DARS	Number of technical messages released related to horticulture	800	1,600	2,400	3,200	4,000	11,200
			DARS	Number of horticulture technologies released	8,000	88,000	96,000	104,000	112,000	400,000
			DARS	Number of farmers groups involved in horticulture seed multiplication	300	2,400	2,700	3,000	3,300	11,400
			DARS	Horticulture estimation methodology produced and distributed	15,000	-	-	15,000	-	15,000

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Strategic Objective	Final outcome indicator	Action	Resp. Inst.	Output indicator	Unit cost (\$US)	Budget 2011/12	Budget 2012/13	Budget 2013/14	Budget 2014/15	TOTAL
Increase root and tubers crops productivity		Develop mother nurseries (vegetative multiplication)	DARS	Area under mother nurseries (ha)	650	13,000	19,500	26,000	32,500	91,000
			DARS	Construct/rehabilitate tissue culture laboratory	200,000	400,000	-	200,000	-	600,000
Increased unit value of agricultural export ('000 MK/MT) by commodity		Improve compliance to market standards (grading, packaging)	DARS	Number of SPS laboratories set up	75,000	75,000	150,000	225,000	75,000	525,000
			DARS	Number of import permits and export licenses issued	25	100,000	125,000	150,000	175,000	550,000
			DARS	Number of technicians/inspectors trained in SPS	1,000	10,000	20,000	30,000	40,000	100,000
		Enhance border posts-produce inspections	DARS	Number of border posts infrastructure provided	200,000	200,000	400,000	400,000	-	1,000,000
Increase volume of high-value commodities for agro-processing		Develop local dairy feed formulation	DARS	Number of local feed formulae developed	40,000	-	40,000	-	40,000	80,000
		Develop local poultry feed formulae	DARS	Number of poultry feed technologies released	50,000	-	50,000	50,000	-	100,000

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Strategic Objective	Final outcome indicator	Action	Resp. Inst.	Output indicator	Unit cost (\$US)	Budget 2011/12	Budget 2012/13	Budget 2013/14	Budget 2014/15	TOTAL
		Develop and adapt agro-processing technologies	DARS	Number of root crop agro-processing technologies released	15,000	-	15,000	-	15,000	30,000
Increase area (ha) under sustainable land management (SLM)		Develop soil fertility and water conservation technologies	DARS	Number of Soil and water conservation technologies developed	20,000	80,000	80,000	80,000	80,000	320,000
Increase area (ha) under sustainable irrigation		Rehabilitate existing irrigation infrastructure in research stations	DARS	Number of infrastructure rehabilitated	100,000	400,000	200,000	300,000	-	900,000
		Encourage adoption of appropriate fish farming technologies	FISHERIES DEPT	No of fish farming technologies adopted	1,500	3,000	3,000	3,000	3,000	12,000
		Promote exploratory surveys for under exploited fish stocks	FISHERIES DEPT	Tonnage of fish from off shore	40	600,000	800,000	880,000	1,000,000	3,280,000
Sub-total 4.1						2,278,625	2,429,350	2,972,075	2,131,800	9,811,850
Component 4.2: Efficient farmer-led extension and training services										
Increase maize productivity	Rate of adoption of priority technologies increased	Promote good agricultural practices (GAP)	DAES	Number of farmers receiving advice on maize varieties and GAP	5	4,950,000	5,887,500	6,450,000	7,200,000	24,487,500

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Strategic Objective	Final outcome indicator	Action	Resp. Inst.	Output indicator	Unit cost (\$US)	Budget 2011/12	Budget 2012/13	Budget 2013/14	Budget 2014/15	TOTAL
Decrease on farm pre and post harvest losses		Promote improved on-farm storage technologies (food, seed)	DAES	Number of farmers receiving training and tools on storage technologies (physical, chemical)	8	7,920,000	9,420,000	10,320,000	11,520,000	39,180,000
		Disseminate messages on post harvest handling	DAES	Number of messages on post harvesting	800	3,200	4,000	4,000	4,800	16,000
Increase legumes and pulses productivity		Promote new varieties and good agricultural practices for legumes	DAES	No. of farmers receiving advice on legumes GAP (incl. indigenous vegetables)	7	4,900,000	5,600,000	6,300,000	7,000,000	23,800,000
Increase HH horticultural crops productivity		Promote dissemination of improved technologies in horticulture	DAES	Number of farmers being trained in horticulture techniques	25	125,000	125,000	125,000	125,000	500,000
Increase volume of high-value commodities for agro-processing		Provide research, extension and marketing services for irrigation systems users	DAES	Number of farmer groups receiving advice on irrigation production and marketing of rice/horticulture	100	120,000	140,000	160,000	180,000	600,000
			DAES	Quantities of improved rice seed multiplied(MT)	500	200,000	250,000	325,000	425,000	1,200,000

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Strategic Objective	Final outcome indicator	Action	Resp. Inst.	Output indicator	Unit cost (\$US)	Budget 2011/12	Budget 2012/13	Budget 2013/14	Budget 2014/15	TOTAL
Increased unit value of commodities (financial & non-financial support services)		Increase knowledge and skills in agro-processing technologies	DAES	Number of extension staff trained in agro-processing technologies and equipment for activities	10,000	3,000,000	2,500,000	1,000,000	1,000,000	7,500,000
			DAES	Number of farmer groups trained in agro-processing	5,000	500,000	750,000	500,000	120,000	1,870,000
			DAES	Facilitate procurement of agro-processing machinery	7,000	700,000	1,050,000	700,000	175,000	2,625,000
Sub-total 4.2						22,418,200	25,726,500	25,884,000	27,749,800	101,778,500
Sub-total Key Support Service Research						24,696,825	28,155,850	28,856,075	29,881,600	111,590,350
5. Key support service: Institutional strengthening and Capacity building										
Component 5.1: Strengthening public management systems										
Strengthen mobility in the ministry and districts		Undertake Procurement services	DFA	Number of motor vehicles procured	70,000	2,800,000	2,800,000	2,800,000	2,800,000	11,200,000
			DFA	Number of motor cycles procured	7,000	700,000	700,000	700,000	700,000	2,800,000
Improve infrastructure quantity and quality		Rehabilitation of soil and seed laboratories at Chitedze	DARS/ DFA	Number of laboratories rehabilitated	65,000	-	65,000	65,000	65,000	195,000

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Strategic Objective	Final outcome indicator	Action	Resp. Inst.	Output indicator	Unit cost (\$US)	Budget 2011/12	Budget 2012/13	Budget 2013/14	Budget 2014/15	TOTAL
		Rehabilitate staff houses	DFA	Number staff houses and offices rehabilitated	30,000	900,000	900,000	900,000	900,000	3,600,000
		Construct staff houses	DFA	Number of offices rehabilitated	50,000	1,500,000	1,500,000	1,500,000	1,500,000	6,000,000
		Upgrade institutional training infrastructure	DFA	Number of training centres upgraded	155,000	465,000	465,000	465,000	465,000	1,860,000
		Rehabilitation of district agriculture offices	DFA	Number staff houses and offices constructed	150,000	150,000	150,000	150,000	150,000	600,000
		Rehabilitation of buildings for weather observation stations	DFA	Number of buildings rehabilitated	10,000	20,000	20,000	20,000	20,000	80,000
Improve equipment quantity and quality		Procure assorted office equipment	DFA	Assorted equipment procured	20,000	500,000	500,000	500,000	500,000	2,000,000
		Procure Laboratory Research equipment	DFA	Laboratory Research equipment procured	300,000	-	300,000	-	300,000	600,000
		Procure Weather stations Equipment and spare parts	DFA	Weather stations Equipment and spare parts procured	7,000	700,000	700,000	350,000	350,000	2,100,000

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Strategic Objective	Final outcome indicator	Action	Resp. Inst.	Output indicator	Unit cost (\$US)	Budget 2011/12	Budget 2012/13	Budget 2013/14	Budget 2014/15	TOTAL
		Procure Farm inputs and equipments for Land Conservation and crop Experimentation	DFA	Farm inputs procured	200,000	200,000	-	-	-	200,000
Improved monitoring of agricultural programs and interventions		Develop and implement monitoring and reporting systems of ASWAp interventions	DAPS	Number of monitoring reports prepared and submitted timely	181,818	354,107	244,212	727,273	800,000	2,125,592
		Conduct ASWAp reviews		Review report	84,848	0	0	339,394	373,333	712,727
		Production of the agricultural statistical bulletins	DAPS	Number of issues of statistical bulletins	30,303	0	0	151,515	166,667	318,182
		Policy review and Preparation of development programmes under ASWAp	DAPS	Number of development programmes developed	37,879	77,181	53,228	151,515	166,667	448,591
Improved planning of agricultural programs and interventions		Preparation of budgets and annual work plans for the Ministry	DAPS	Approved annual budget	151,515	128,475	88,603	151,515	166,667	535,260
		expenditure tracking assessment	DAPS	Number expenditure tracking reports	22,727	79,091	54,545	90,909	100,000	324,545

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Strategic Objective	Final outcome indicator	Action	Resp. Inst.	Output indicator	Unit cost (\$US)	Budget 2011/12	Budget 2012/13	Budget 2013/14	Budget 2014/15	TOTAL
Strengthen routine administrative, financial and human resource management functions		Provide adequately for office services	DFA	Number of procurement reports	757,576	2,180,771	1,503,980	3,030,303	3,333,333	10,048,387
		Keeping and maintaining financial records	DFA	Number financial management reports	151,515	425,442	293,408	606,061	666,667	1,991,577
		Keeping and maintaining human resource records	DFA	Number human resource management reports	151,515	338,867	233,701	606,061	666,667	1,845,295
Reliable Network			ICT							
		Rehabilitate and extend the current GWAN network infrastructure - Hdqrs	ICT	No of GWAN network points linked to main switch	20	5,820.00	7,000	7,000	7,000	26,820
		Rehabilitate and extend the current LAN infrastructure in ADDs	ICT	No of intranet, internet and Email services users	10	2,800.00	3,250	7,250	7,250	20,550
		Provide LAN infrastructure in Salima and Shire Valley ADDs	ICT		10	-	1,400	3,900	7,250	12,550
Internet and Email Services using VPN technology	Increased access to and reduced costs of internet and email services	Connect all Addis to Ministry Hdqrs.	ICT	No of intranet, internet and Email services users extended	210	-	11,760	26,670	-	38,430

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Strategic Objective	Final outcome indicator	Action	Resp. Inst.	Output indicator	Unit cost (\$US)	Budget 2011/12	Budget 2012/13	Budget 2013/14	Budget 2014/15	TOTAL
		Provide Video conferencing services	ICT	A state of the art ICT, digitisation and Video Conferencing equipment	10,500	-	10,500	10,500	52,500	73,500
		Provide secure internet and email facilities	ICT	No of computers installed with Anti-Virus	10	1,420.00	1,500	7,250	7,250	17,420
	Updated www.moafsmw.org website	Acquire Website Development consultancy services to redesign the current website	ICT	No of users accessing the website	10	-	500	12,500	50,000	63,000
	Effective network points	Procure network infrastructure accessories	DFA/Procurement	Number of users	5	710.00	750.00	3,625.00	3,625.00	8,710
	State of the art ICT equipment	Procure ICT equipment	DFA/Procurement	No of ADDs connected to VPN	1275	-	3,825.00	5,100.00	2,550.00	11,475
Digitisation of manual records	Manual documents turned into electronic records	Identify and classify important records	ICT/National Archives	No of institutions	4200	-	8,400.00	21,000.00	29,400.00	58,800
Agriculture Cadastral Management Information System (AGRICAMIS)	A geographically and integrated Agriculture Management Information System (AGMIS)	Collect data and conduct feasibility studies for AGRICAMIS, AGMIS and AMIS	ICT	No of visits	3,575	-	10,725	-	-	10,725
		Analyse data and produce feasibility study report	ICT	No of reports	-	-	-	-	-	-

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Strategic Objective	Final outcome indicator	Action	Resp. Inst.	Output indicator	Unit cost (\$US)	Budget 2011/12	Budget 2012/13	Budget 2013/14	Budget 2014/15	TOTAL
		Design and develop AGRICAMIS, AGMIS and AMIS	ICT		-	-	-	-	-	-
		Acquire AGRICAMIS, AGMIS and AMIS consultancy services	ICT	No of consultancies		-	-	-	-	-
		Install AGRICAMIS, AGMIS and AMIS	ICT	No of ADDs		-	-	-	-	-
		Link AGRICAMIS and AGMIS regional and international bodies	ICT	No of organisations accessing AGRICAMIS	8,000	-	-	8,000	16,000	24,000
HRMIS and IFMIS Rollout in ADDs	A timely updated HR database and production of payroll and financial documents	Install HRMIS and IFMIS	ICT	No of ADDs using HRMIS and IFMIS	20,000	-	-	40,000	140,000	180,000
Transport Information Management System Rollout in ADDs	Trucking of institutional vehicles	Install Transport Management Information System	ICT	No of ADDs using Transport Management Information System	5,000	-	-	10,000	35,000	45,000
Asset Management Informamtion System (AMIS)	An automated Ledger of the Ministry's assets	Install Asset Management Informamtion System (AMIS)	ICT	No of records computerised	1,200	-	-	1,500,000	8,400,000	9,900,000
		Upgrade institutional infrastructure	FISHERIES DEPT	No of centres upgraded	4,500	4,500.00	4,500.00	4,500.00	4,500.00	18,000
				No of laboratoy facilities developed	3,500	-	3,500.00	-	-	3,500

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Strategic Objective	Final outcome indicator	Action	Resp. Inst.	Output indicator	Unit cost (\$US)	Budget 2011/12	Budget 2012/13	Budget 2013/14	Budget 2014/15	TOTAL
		Procure lab, enforcement and research equipment	FISHERIES DEPT	Assorted equipment procured	8,605	-	-	-	-	-
				No of research vessels and accessories procured	250,000	-	-	250,000.00	-	250,000
				No of patrol boats procured	105,000	105,000.00	105,000.00	735,000.00	210,000.00	1,155,000
Sub-total 5.1						11,639,183	10,744,288	15,956,840	23,162,325	61,502,636
Component 5.2: Capacity building of the public and private sector										
Strengthening institutional capacity		Collaborate continuously with partners	DAES/ OPC	Number of technical meetings conducted	500	2,000	2,000	2,000	2,000	8,000
		Conduct stakeholder meetings with government sectors, NGO, Bilateral and multilateral partners and the private sector	DAES/ OPC	Number of stakeholder meetings, annual and bi-annual, and consultative for establishment of a business coalition for nutrition	15,000	60,000	60,000	60,000	60,000	240,000

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Strategic Objective	Final outcome indicator	Action	Resp. Inst.	Output indicator	Unit cost (\$US)	Budget 2011/12	Budget 2012/13	Budget 2013/14	Budget 2014/15	TOTAL
		Coordinate creation of gender, nutrition, HIV and AIDS officers positions in ASWAp line ministries and departments	DAES/ OPC	Departments with gender, HIV/AIDS and nutrition offices positions	1,000	10,000	10,000	15,000	20,000	55,000
		Institutionalize farmer-led extension services	DAES/ OPC	Number of male and female staff trained on developed concept	500	500,000	500,000	500,000	500,000	2,000,000
		Revise agriculture extension policy	DAES/ OPC	Policy revised to include private extension service provision	20,000	20,000	20,000	20,000	20,000	80,000
		Formulate strategies in response to farmer demand	DAES/ OPC	Number of strategies developed	20,000	60,000	60,000	60,000	60,000	240,000
		Strengthen stakeholder panels	DAES/ OPC	Number of stakeholder panels oriented	250	25,000	25,000	12,500	12,500	75,000
		Capacity assessment studies for agricultural institutions in Malawi	DAPS	Number of Institutions	100,000	100,000	-	-	-	100,000
Improve capacity of staff in the ministry	Staff vacancy rate (%) reduced	Recruit technical experts	CHRM	Number of consultants hired	50,000	100,000	100,000	100,000	100,000	400,000
		Recruit staff	CHRM	Number of staff recruited	50	10,000	10,000	12,500	12,500	45,000

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Strategic Objective	Final outcome indicator	Action	Resp. Inst.	Output indicator	Unit cost (\$US)	Budget 2011/12	Budget 2012/13	Budget 2013/14	Budget 2014/15	TOTAL
	Capacity building programme in place	Carry out sector wide capacity building assessment		Report	100,000	100,000	-	-	-	100,000
		Implement institutional reform programme		Number of meetings	300,000	-	300,000	300,000	300,000	900,000
		Conduct orientation of newly recruited staff in policies and programs	CHRM	Number of orientation sessions conducted	100	20,000	20,000	25,000	25,000	90,000
		Implement long term training programme international	CHRM	Number of staff trained	15,000	750,000	750,000	750,000	750,000	3,000,000
		Implement long term training programme national	CHRM	Number of staff trained	10,000	500,000	500,000	500,000	500,000	2,000,000
		Implement short training programme	CHRM	Number of staff trained	2,000	1,000,000	1,000,000	1,000,000	1,000,000	4,000,000
		Conduct short term training for subject matter specialists	CHRM	Number of workshops conducted	2,000	30,000	30,000	30,000	30,000	120,000
Increased capacity of ICT knowledge and skills in the ministry	Increased number of staff effectively performing their duties	Conduct ICT sensitisation workshops for ICT officers	ICT	No of meetings	3,350	-	10,050	-	-	10,050
		Conduct short term training for ICT specialists	ICT	No of ICT workshops conducted	2,865	40,110	40,110	40,110	40,110	160,440

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Strategic Objective	Final outcome indicator	Action	Resp. Inst.	Output indicator	Unit cost (\$US)	Budget 2011/12	Budget 2012/13	Budget 2013/14	Budget 2014/15	TOTAL
		Conduct basic ICT training for support staff	ICT	No of ICT workshops conducted	3,350	-	-	10,050	-	10,050
		Attend professional short term courses	ICT	No of officers	10,200	-	-	40,800	40,800	81,600
		Attend professional long term courses	ICT	No of officers	10,500	-	10,500	31,500	42,000	84,000
		Attend project management courses	ICT	No of officers	3,500	-	7,000	7,000	3,500	17,500
	M&E, HR, planning and financial management systems functioning	Conduct preparatory baselines	DAPS	Number of baseline	500,000	500,000	-	500,000	-	1,000,000
		Agriculture statistical systems development		Number of statistical Reports	375,000	1,500,000	1,500,000	1,500,000	1,500,000	6,000,000
		Carryout cost benefit analyses		Number of reports	600,000	600,000	600,000	600,000	600,000	2,400,000
		Carryout Core Function analysis and capacity assessments		Number of reports	600,000	1,200,000	1,200,000	1,200,000	1,200,000	4,800,000
		Studies on adoption and qualitative feedback on activities	DAPS	Number of studies	50,000	150,000	150,000	150,000	150,000	600,000

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Strategic Objective	Final outcome indicator	Action	Resp. Inst.	Output indicator	Unit cost (\$US)	Budget 2011/12	Budget 2012/13	Budget 2013/14	Budget 2014/15	TOTAL
		International technical assistance on: Planning & Budgeting	CHRM	Number of TAs in place	25,000	300,000	300,000	300,000	300,000	1,200,000
		National technical assistance on: Planning and Budgeting	CHRM	Number of TAs in place	10,000	120,000	120,000	120,000	120,000	480,000
		International technical assistance on: M&E	CHRM	Number of TAs in place	25,000	300,000	300,000	300,000	300,000	1,200,000
		National technical assistance on: M&E	CHRM	Number of TAs in place	10,000	120,000	120,000	120,000	120,000	480,000
		International technical assistance on: Financial Management	CHRM	Number of TAs in place	25,000	300,000	300,000	300,000	300,000	1,200,000
		National technical assistance on: Financial management	CHRM	Number of TAs in place	10,000	120,000	120,000	120,000	120,000	480,000
		International technical assistance on: HRM	CHRM	Number of TAs in place	25,000	300,000	300,000	300,000	300,000	1,200,000
		National technical assistance on: HRM	CHRM	Number of TAs in place	10,000	120,000	120,000	120,000	120,000	480,000

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Strategic Objective	Final outcome indicator	Action	Resp. Inst.	Output indicator	Unit cost (\$US)	Budget 2011/12	Budget 2012/13	Budget 2013/14	Budget 2014/15	TOTAL
		Carry out strategic environmental assessment		Number of reports	250,000	250,000	-	-	250,000	500,000
		Recruit and train technical staff	FISHERIES DEPT	No of frontline staff trained	475	23,750	23,750	23,750	23,750	95,000
		Conduct short term training for public and private sector	FISHERIES DEPT	No of training workshops	420	6,300	6,300	6,300	6,300	25,200
		Enhance community outreach programmes	FISHERIES DEPT	No of outreach programmes	1,250	187,500	218,750	235,000	262,500	903,750
Sub-total 5.2						9,424,660	8,833,460	9,411,510	9,190,960	36,860,590
Sub-total Institutional strengthening and capacity building						21,063,843	19,577,748	25,368,350	32,353,285	98,363,226
6. Cross cutting issues										
Component 6.1: Mainstreaming of gender and HIV/AIDS										
HIV related morbidity and mortality minimized	Proportion of staff accessing supplementary feeding at workplace	Increase capacity of staff and farmer to mainstream gender, HIV and AIDS in ASWAP interventions	DAES/ OPC	Number of staff trained	2,511	3,013,216	4,017,621	5,022,026	6,026,432	18,079,295
		Promote accountability to gender, HIV and AIDS mainstreaming among ASWAp implementers	DAES/ OPC	Policies reviewed	251,101	251,101	502,203	502,203	502,203	1,757,709

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Strategic Objective	Final outcome indicator	Action	Resp. Inst.	Output indicator	Unit cost (\$US)	Budget 2011/12	Budget 2012/13	Budget 2013/14	Budget 2014/15	TOTAL
	Reduced staff attrition	Sensitise staff on HIV and AIDS	DAES/ OPC	Number of sessions conducted	1,256	251,101	251,101	251,101	251,101	1,004,405
Gender disparities reduced	% of vulnerable groups (incl. women, youth, elderly) accessing FISP	Generate and disseminate knowledge on gender, HIV and AIDS in the agricultural sector	DAES/ OPC	Number of action research studies conducted	251,101	753,304	753,304	753,304	1,004,405	3,264,317
	% of vulnerable people involved in decision making	Develop and implement visibility strategy for gender, HIV and AIDS mainstreaming	DAES/ OPC	Visibility strategy developed	313,877	313,877	313,877	313,877	313,877	1,255,507
		Establish focal points for gender and HIV/AIDS	DAES/ OPC	Number of focal points established	62,775	125,551	-	-	-	125,551
			DAES/ OPC	Number of farmer groups trained	1,256	627,753	690,529	816,079	878,855	3,013,216
Sub-total Cross-cutting issues: Mainstreaming gender and HIV/AIDS						5,335,903	6,528,634	7,658,590	8,976,872	28,500,000
GRAND TOTAL									USD	2,191,678,026

APPENDIX 5: RESOURCE GAP ANALYSIS IN US\$

Focus Area/Component		2011-12				2012-13			
		Required Resources	Available Local Resources	Available Donor Resources	Gap	Required Resources	Available Local Resources	Available Donor Resources	Gap
1	Food security and risk management								
1.1	Maize self-sufficiency	162,457,200	138,434,202	21,522,000	2,500,998	162,791,500	126,217,638	19,222,000	17,351,862
1.2	Diversification and nutrition	36,061,280	2,480,506	23,630,000	9,950,774	39,588,810	2,261,606	20,150,000	17,177,204
1.3	Risk Management for Sustainable food availability	2,573,750	251,894	4,055,000	-1,733,144	10,181,250	229,665	3,635,000	6,316,585
2	Commercial agriculture and market development								
2.1	Agricultural export for improved balance of trade and income	8,632,000	3,637	11,103,000	-2,474,637	10,082,500	3,316	8,363,000	1,716,184
2.2	Commercial production for import substitution and domestic market development	24,528,250	2,121,624	1,362,500	21,044,126	25,606,000	7,232,443	973,000	17,400,557
2.3	Input and output market development through Private public partnership	365,000	16,763,613	12,310,000	-28,708,613	1,905,000	9,456,730	10,240,000	-17,791,730
3	Sustainable land and water management								
3.1	Sustainable agricultural land management	6,853,800	741,472	23,967,000	-17,854,672	10,629,600	676,038	20,687,000	-10,733,438
3.2	Sustainable agricultural water management	186,760,000	6,972,190	16,920,000	162,387,810	214,624,000	12,095,521	10,310,000	192,218,479
4	Technology generation and dissemination								
4.1	Results and market oriented research and provision of technical and regulatory services	2,278,625	4,068,484	1,725,000	-3,514,859	2,429,350	3,709,447	2,225,000	-3,505,097
4.2	Efficient farmer-led extension and training services	22,418,200	3,953,157	1,610,000	16,855,043	25,726,500	4,147,476	2,910,000	18,669,024

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Focus Area/Component		2011-12				2012-13			
		Required Resources	Available Local Resources	Available Donor Resources	Gap	Required Resources	Available Local Resources	Available Donor Resources	Gap
5	Institutional strengthening and capacity building								
5.1	Strengthening public management systems	11,639,183	1,860,446	5,842,500	3,936,237	10,744,288	1,696,265	4,400,000	4,648,023
5.2	Capacity building of the public and private sector	9,424,660	555,605	7,930,000	939,055	8,833,460	506,574	3,360,000	4,966,886
6	Cross cutting issue								
6.1	Mainstreaming of gender and HIV AIDS	5,335,903	538,624	1,930,000	2,867,279	6,528,634	491,092	1,930,000	4,107,543
	Grand Total	479,327,851	155,619,758	133,907,000	166,675,396	529,670,892	168,723,811	108,405,000	252,542,081

Focus Area/Component		2013-14				2014-15			
		Required Resources	Available Local Resources	Available Donor Resources	Gap	Required Resources	Available Local Resources	Available Donor Resources	Gap
1	Food security and risk management								
1.1	Maize self-sufficiency	163,127,750	126,839,802	18,422,000	17,865,948	163,464,000	107,813,832	1,152,000	54,498,168
1.2	Diversification and nutrition	41,361,570	2,272,754	20,150,000	18,938,816	43,601,340	1,931,841	5,980,000	35,689,499
1.3	Risk Management for Sustainable food availability	3,171,250	230,797	3,495,000	-554,547	3,918,750	196,177	250,000	3,472,573
2	Commercial agriculture and market development								
2.1	Agricultural export for improved balance of trade and income	11,170,000	3,333	2,700,000	8,466,667	11,957,500	2,833	130,000	11,824,667
2.2	Commercial production for import substitution and domestic market development	28,089,250	5,090,418	973,000	22,025,832	35,390,500	5,054,128	843,000	29,493,372
2.3	Input and output market development through Private public partnership	480,000	7,597,200	11,630,000	-18,747,200	630,000	7,547,593	10,450,000	-17,367,593

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Focus Area/Component		2013-14				2014-15			
		Required Resources	Available Local Resources	Available Donor Resources	Gap	Required Resources	Available Local Resources	Available Donor Resources	Gap
3	Sustainable land and water management								
3.1	Sustainable agricultural land management	14,545,400	679,371	20,337,000	-6,470,971	24,991,200	577,465	5,566,000	18,847,735
3.2	Sustainable agricultural water management	242,400,000	11,819,980	6,170,000	224,410,020	261,286,000	10,235,862	1,169,000	249,881,138
4	Technology generation and dissemination								
4.1	Results and market oriented research and provision of technical and regulatory services	2,972,075	3,727,732	1,600,000	-2,355,657	2,131,800	3,168,572	600,000	-1,636,772
4.2	Efficient farmer-led extension and training services	25,884,000	4,436,009	4,010,000	17,437,991	27,749,800	4,626,365	5,590,000	17,533,435
5	Institutional strengthening and capacity building								
5.1	Strengthening public management systems	15,956,840	1,704,627	4,400,000	9,852,214	23,162,325	1,448,933	552,000	21,161,392
5.2	Capacity building of the public and private sector	9,411,510	509,071	2,070,000	6,832,439	9,190,960	432,710	872,000	7,886,250
6	Cross cutting issue								
6.1	Mainstreaming of gender and HIV AIDS	7,658,590	493,512	1,930,000	5,235,078	8,976,872	419,485	1,460,000	7,097,387
	Grand Total	566,228,236	165,404,606	97,887,000	302,936,629	616,451,047	143,455,797	34,614,000	438,381,250
	Total Available Resources		1,008,016,973						
	<i>Local Available</i>		<i>633,203,973</i>						
	<i>Donor Available</i>		<i>374,813,000</i>						
	Total Required Resources		2,191,678,026						
	Gap		1,183,661,054						

APPENDIX 6: SUMMARY OF DEVELOPMENT PARTNERS COMMITMENTS TO ASWAP (IN US\$)

Focal Area	Component	Development Partner	Code	2012/13	2012/13	2013/14	2014/15		
1. Food Security and Risk Management	1.1 Maize Self Sufficiency	WB	IRLADP	1 800 000	-	-	-		
		IFAD	IRLARD	340 000	-	-	-		
		IFAD	SAPP	-	200 000	700 000	1 100 000		
		WB	ADP-SP	4 000 000	4 000 000	4 000 000	-		
		DFID	FISP-DFID	8 000 000	8 000 000	8 000 000	-		
		USAID	WALA	2 100 000	2 100 000	2 100 000	-		
		USAID	SAKSS	200 000	200 000	200 000	-		
		EU	FS	1 130 000	1 130 000	-	-		
		EU	FIDP	320 000	-	-	-		
		IRISH AID	TROC IA	13 000	13 000	13 000	13 000		
		IRISH AID	CWW IA	39 000	39 000	39 000	39 000		
		NORWAY	FISP-RNE	2 500 000	2 500 000	2 500 000	-		
		NORWAY	ADP-SPN	1 080 000	1 040 000	870 000	-		
					Sub-total	21 522 000	19 222 000	18 422 000	1 152 000
			1.2 Diversification (Food production and Dietary)		MSID	46 000	350 000	350 000	-
					RSTIP	650 000	650 000	650 000	-
					ROHM	460 000	460 000	460 000	-
					LDSP	300 000	300 000	300 000	-
					DFID	DFID-Dairy	400 000	400 000	400 000
		USAID		WALA	2 000 000	2 000 000	2 000 000	-	
		USAID		NUT	1 500 000	1 500 000	1 500 000	-	
		EU		DCI-FOOD	479 000	-	-	-	
		EU		FOOD	3 680 000	-	-	-	
		EU		FS	2 830 000	5 280 000	5 280 000	-	
		EU	FISP-IA	2 830 000	2 830 000	2 830 000	-		
		IRISH AID	FISP-IA	2 940 000	2 100 000	2 100 000	2 100 000		

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Focal Area	Component	Development Partner	Code	2012/13	2012/13	2013/14	2014/15
		IRISH AID	ICRISAT-IA	840 000	840 000	840 000	840 000
		IRISH AID	CIP-IA	1 200 000	1 200 000	1 200 000	1 200 000
		IRISH AID	CU-IA	840 000	840 000	840 000	840 000
		IRISH AID	FAIR-IA	220 000	220 000	220 000	220 000
		IRISH AID	TROC IA	170 000	170 000	170 000	170 000
		IRISH AID	GOAL-IA	90 000	90 000	90 000	90 000
		IRISH AID	CWW IA	520 000	520 000	520 000	520 000
		FAO	FAO-UNJP	985 000	-	-	-
		FAO	FAO-TCP/MLW/3302	250 000	-	-	-
		DFID	DFID-Dairy	400 000	400 000	400 000	-
			Sub-total	23 630 000	20 150 000	20 150 000	5 980 000
	1.3 Risk Management for food stability	WB	ADP-SP	500 000	500 000	500 000	-
		DFID	DFID-MVAC	200 000	200 000	200 000	-
		USAID	NUT	700 000	700 000	700 000	-
		USAID	MLI	200 000	-	-	-
		USAID	FEWSNET	170 000	170 000	170 000	170 000
		EU	FOOD	130 000	130 000	-	-
		EU	ACP	220 000	-	-	-
		EU	FS- Innovative Instruments	1 595 000	1 595 000	1 595 000	-
		NORWAY	ADP-SPN	60 000	60 000	50 000	-
		IRISH AID	TROC-IA	80 000	80 000	80 000	80 000
		DFID	DFID-MVAC	200 000	200 000	200 000	-
			Sub-total	4 055 000	3 635 000	3 495 000	250 000
	Pillar 1 Total			49 207 000	43 007 000	42 067 000	7 382 000
2. Commercial agriculture and market development	2.1 Agricultural export for improved balance of trade and income	EU	DCI	1 890 000	-	-	-
		EU	DCI Sucre	2 610 000	2 610 000	1 740 000	-
		EU	AMSP (2011-13)	1 603 000	1 603 000	-	-
		EU	FIDP	160 000	-	-	-

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Focal Area	Component	Development Partner	Code	2012/13	2012/13	2013/14	2014/15
		NORWAY	CASN	2 690 000	2 690 000	-	-
		NORWAY	MLBP	2 020 000	1 330 000	830 000	-
		IRISH AID	ICRAF-IA	130 000	130 000	130 000	130 000
			<i>Sub-total</i>	<i>11 103 000</i>	<i>8 363 000</i>	<i>2 700 000</i>	<i>130 000</i>
	2.2 Commercial production for import substitution and domestic market development	JICA	OVOP	800 000	800 000	800 000	800 000
			AFSP	130 000	130 000	130 000	-
		USAID	KULERA	130 000	-	-	-
		USAID	UILTCB	100 000	-	-	-
		EU	FIDP	159 500	-	-	-
		IRISH AID	CIP-IA	30 000	30 000	30 000	30 000
		IRISH AID	CU-IA	13 000	13 000	13 000	13 000
			<i>Sub-total</i>	<i>1 362 500</i>	<i>973 000</i>	<i>973 000</i>	<i>843 000</i>
	2.3 Input and output market development through Private public partnership	USAID	WALA	500 000	500 000	500 000	-
		USAID	MLI	900 000	-	-	-
		USAID	KULERA	130 000	-	-	-
		USAID	MOBILISE	180 000	-	-	-
		USAID	INVC	9 000 000	9 000 000	9 000 000	9 000 000
			RSTIP	10 000	10 000	10 000	-
			ROHM	10 000	10 000	10 000	-
			LDSP	10 000	10 000	10 000	-
		EU	DCI	290 000	-	-	-
		UNDP	PSDP	-	600 000	1 200 000	1 400 000
		AfDB	AISP	1 280 000	110 000	900 000	50 000
			<i>Sub-total</i>	<i>12 310 000</i>	<i>10 240 000</i>	<i>11 630 000</i>	<i>10 450 000</i>
	Pillar 2 Total			24 775 500	19 576 000	15 303 000	11 423 000

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Focal Area	Component	Development Partner	Code	2012/13	2012/13	2013/14	2014/15
3. Sustainable land and water management	3.1 Sustainable agricultural land management	WB	ADP-SP	2 000 000	2 000 000	2 000 000	-
		WB	CRRLD	900 000	900 000	900 000	-
		JICA	SLMP (4years)	1 100 000	600 000	400 000	-
		IRISH AID	SLMP	900 000	900 000	900 000	900 000
		JICA	COVAMS	300 000	-	-	-
			AFSP	520 000	520 000	520 000	-
			PCASCP	170 000	170 000	170 000	-
		USAID	WALA	600 000	1 000 000	1 000 000	-
		USAID	KULERA	590 000	-	-	-
		EU	FIDP	320 000	-	-	-
		NORWAY	ADP-SPN	920 000	880 000	730 000	-
		IRISH AID	ICRAF-IA	520 000	520 000	520 000	520 000
		IRISH AID	NASFAM-IA	170 000	170 000	170 000	170 000
		IRISH AID	FAIR-IA	30 000	30 000	30 000	30 000
		IRISH AID	TROC-IA	80 000	80 000	80 000	80 000
		IRISH AID	GOAL-IA	50 000	50 000	50 000	50 000
		UNDP	SLM	600 000	600 000	600 000	-
		FAO	FAO-ECU: CA	120 000	-	-	-
		DFID	DFID-Conser Agric	1 167 000	1 167 000	1 167 000	-
			AFSP	140 000	140 000	140 000	-
			PCASCP	40 000	40 000	40 000	-
	CC	4 800 000	4 800 000	4 800 000	-		
USAID	KULERA	600 000	-	-	-		
USAID	MOBILISE	250 000	-	-	-		
USAID	INVC	1 500 000	1 500 000	1 500 000	1 500 000		
USAID	GCC-TBD	2 000 000	2 000 000	2 000 000	2 000 000		
NORWAY	MACC	1 300 000	2 300 000	2 300 000	-		
IRISH AID	ICRAF-IA	140 000	140 000	140 000	140 000		
IRISH AID	NASFAM-IA	40 000	40 000	40 000	40 000		
IRISH AID	FAIR-IA	30 000	30 000	30 000	30 000		

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Focal Area	Component	Development Partner	Code	2012/13	2012/13	2013/14	2014/15
		IRISH AID	TROC-IA	10 000	10 000	10 000	10 000
		IRISH AID	CWW-IA	30 000	30 000	30 000	30 000
		UNDP	PEI	200 000	-	-	-
		UNDP	CCP - AAP	1 800 000	-	-	-
		AfDB	AISP	30 000	70 000	70 000	66 000
			Sub-total	23 967 000	20 687 000	20 337 000	5 566 000
	3.2 Sustainable agricultural water management	WB	IRLADP	2 350 000	-	-	-
		IFAD	IRLARD	400 000	-	-	-
		JICA	DMSIS	1 120 000	1 120 000	1 120 000	500 000
			LDSP	260 000	260 000	260 000	-
		USAID	WALA	1 000 000	1 000 000	1 000 000	-
		USAID	KUKERA	670 000	-	-	-
		USAID	MOBILISE	260 000	-	-	-
		EU	FOOD	170 000	-	-	-
		EU	RIDP	2 900 000	2 900 000	2 900 000	-
		IRISH AID	CU-IA	260 000	260 000	260 000	260 000
		IRISH AID	TROC-IA	80 000	80 000	80 000	80 000
		IRISH AID	GOAL-IA	120 000	120 000	120 000	120 000
		IRISH AID	CWW-IA	30 000	30 000	30 000	30 000
		AfDB	AISP	7 300 000	4 540 000	400 000	179 000
			Sub-total	16 920 000	10 310 000	6 170 000	1 169 000
	Pillar 3 Total			40 887 000	30 997 000	26 507 000	6 735 000
4. Technology generation and dissemination	4.1 Results and market oriented research and provision of technical and regulatory services	USAID	WALA	1 000 000	1 000 000	1 000 000	-
		EU	AMSP (2011-13)	725 000	725 000	-	-
		IFAD	SAPP	-	500 000	600 000	600 000
			Sub-total	1 725 000	2 225 000	1 600 000	600 000

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Focal Area	Component	Development Partner	Code	2012/13	2012/13	2013/14	2014/15
	4.2 Efficient farmer-led extension and training services	WB	IRLADP	700 000	-	-	-
		IFAD	IRLARD	100 000	-	-	-
		IFAD	SAPP	-	2 100 000	3 200 000	5 100 000
			AFSP	200 000	200 000	200 000	-
			PCASCP	120 000	120 000	120 000	-
		IRISH AID	ICRAF-IA	200 000	200 000	200 000	200 000
		IRISH AID	NASFAM-IA	120 000	120 000	120 000	120 000
		IRISH AID	FAIR-IA	50 000	50 000	50 000	50 000
		IRISH AID	TROC-IA	40 000	40 000	40 000	40 000
		IRISH AID	GOAL-IA	80 000	80 000	80 000	80 000
			<i>Sub-total</i>	1 610 000	2 910 000	4 010 000	5 590 000
	Pillar 4 Total			3 335 000	5 135 000	5 610 000	6 190 000
5. Institutional strengthening and capacity building	5.1 Strengthening public management systems	WB	ADP-SP	2 700 000	2 700 000	2 700 000	-
		IFAD	IRLARD	370 000	-	-	-
		IFAD	SAPP	-	100 000	100 000	100 000
		USAID	NUT	500 000	500 000	500 000	-
		USAID	UILTCB	300 000	-	-	-
		USAID	SAKSS	650 000	650 000	650 000	-
		EU	FIDP	652 500	-	-	-
		EU	FOOD	220 000	-	-	-
		IRISH AID	FAIR-IA	50 000	50 000	50 000	50 000
		AfDB	AISP	400 000	400 000	400 000	402 000
			<i>Sub-total</i>	5 842 500	4 400 000	4 400 000	552 000
	5.2 Capacity building of the public and private sector	WB	ADP-SP	100 000	100 000	100 000	-
		WB	CBRLD	1 930 000	-	-	-
		WB	IRLADP	2 150 000	-	-	-

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Focal Area	Component	Development Partner	Code	2012/13	2012/13	2013/14	2014/15
			RSTIP	50 000	50 000	50 000	-
			LSDP	400 000	400 000	400 000	-
			MSID	130 000	130 000	130 000	-
		USAID	AES-HED	250 000	-	-	-
		USAID	UILTCB	100 000	-	-	-
		IRISH AID	CIP-IA	50 000	50 000	50 000	50 000
		IRISH AID	CU-IA	400 000	400 000	400 000	400 000
		IRISH AID	ICRISAT-IA	80 000	60 000	60 000	60 000
		FAO	FAO-GDCP/MLW/001/FLA	1 500 000	1 300 000	600 000	-
		FAO	FAO-SIDA	210 000	210 000	-	-
		UNDP	CDPSM	50 000	50 000	50 000	50 000
		AfDB	AISP	530 000	610 000	230 000	312 000
			Sub-total	7 930 000	3 360 000	2 070 000	872 000
	Pillar 5 Total			13 772 500	7 760 000	6 470 000	1 424 000
6. Cross cutting issue	6.1 Mainstreaming of gender and HIV AIDS	WB	ADP-SP	200 000	200 000	200 000	-
			LDSP	270 000	270 000	270 000	-
		IRISH AID	CU-IA	270 000	270 000	270 000	270 000
		IRISH AID	GOAL-IA	210 000	210 000	210 000	210 000
		IRISH AID	FAIR-IA	40 000	40 000	40 000	40 000
		IRISH AID	TROC-IA	40 000	40 000	40 000	40 000
		IRISH AID	GOAL-IA	50 000	50 000	50 000	50 000
		IRISH AID	GOAL	200 000	200 000	200 000	200 000
		USAID	Gender	250 000	250 000	250 000	250 000
		IRISH AID	TROC-IA	400 000	400 000	400 000	400 000
	Pillar 6 Total		Sub-total	1 930 000	1 930 000	1 930 000	1 460 000
	Grand Total Donor Commitments to ASWAP			133 907 000	108 405 000	97 887 000	34 614 000

LEGEND FOR THE DONOR COMMITMENTS TO ASWAP

World Bank

ADP-SP	Agricultural Development Programme Support Programme (Agriculture)
IRLADP	Irrigation, Rural Livelihoods and Agricultural Development Project (Agriculture)
CRRLD	Community Based Rural Lands Development Project (implemented by Ministry of Lands)

JICA

FAITF	Farmer Artificial Insemination Technician Foster Project (Agriculture)
OVOP	One Village, One Product (Industry and Trade)
SLMPP	Sustainable Land Management Promotion Project (Agriculture)
CoVAMS	Community Vitalization and Afforestation in the Middle Shire(Natural Resources)
DMSIS	Development of Medium Scale Irrigation Projects (Irrigation and Water Development)
ISAHE	Irrigation Sector Aid Harmonization Expert (Irrigation and Water Development)

Embassy of Japan

FCP	Forest Conservation Project (Natural Resources)
PICNDCC	Programme for the improvement of capabilities to cope with Natural Disasters caused by climate change

DFID

FISP-DFID	Farm Inputs Subsidy Support (Agriculture)
WI	Weather Insurance (Finance)
CC	Climate change

USAID (all funding tentative allocations for FY11to FY12)

WALA	Wellness and Agriculture for Life Advancement
MLI	Market Linkage Initiative
SAKSS	Strategic Analysis and Knowledge Programme
NUT	Nutrition miscellaneous
MDDA	Malawi Dairy Development Alliance
FEWSNET	Famine Early Warning System Network
KULERA	
UILTBC	
MOBILIZE	
HED	

European Union

FS	Food Security Programme
FIDP	Farm Income Diversification Programme
DCI-Food	
FOOD	Food Security and Food

ONG-PVD	Co-financing with NGOs
ACP	Agricultural Commodities Programme (co-financed with NGOs)
DCI	DCI Sucre Sugar
STABEX	STABEX
RIDP	Rural Infrastructure Development Programme
IFMSL	Improved Forest Management for Sustainable Livelihoods.
CBTPD	Capacity Development for trade and private sector development

Kingdom of Norway

ADP-SPN	Agricultural Development Programme Support Project (Norwegian Support). (Agriculture)
CASN	Commercial Agriculture Support for NASFAM (NASFAM)
MLBP	Malawi Lakes Basin Project
SLP	Sustainable Livelihoods Project (FAO)
MACC	Management for Adaptation to Climate Change (Total Land Care)

Irish Aid

1. The projects as per above acronyms denote the following:
 - a. FISP: This is support towards the seeds as part of the Government's Farm Inputs Subsidy Programme. Irish Aid plans to provide particular support to the legumes certified seeds.
(Agriculture)
 - b. ICRISAT: Implementing a project called 'Malawi Seed Industry Development' (MSID)
(Agriculture)
 - c. CIP Potato: International Potato Centre (with DARS) implementing a programme on 'Revitalizing Seed and Table Irish Potato Production in Malawi through Capacity Strengthening, Technology Development and Public-Private Partnerships' (Agriculture)
 - d. CIP OFSP: International Potato Centre implementing a programme 'Rooting Out Hunger in Malawi with Nutritious Orange Fleshed Sweet Potato' (Agriculture)
 - e. CU: Concern Universal implementing 'Local Development Support Programme' (LDSP)
(Local Government)
 - f. ICRAF: World Agroforestry Centre implementing 'Agroforestry Food Security Programme'(AFSP) (Agriculture)
 - g. NASFAM: Implementing a project 'Promoting Conservation Agriculture and Sustainable Crop Production Practices in Smallholder Farming Systems' (Agriculture)
 - h. CWW: Concern Worldwide implementing 'Programme for Attainment of Rights to Sustainable Livelihoods' – PARL(MAPS)
 - i. TROC: Trocaire implementing a project on 'Governance and Human Rights (MAPS)
 - j. FAIR: Self Help Africa/Harvest help combined into FAIR implementing a 'Rural Development Programme' (MAPS)
 - k. GOAL: Goal Malawi implementing a programme on 'Mainstreaming DRR/Livelihoods' (MAPS)

APPENDIX 7: COMPOSITION AND FUNCTIONS OF ASWAP RELATED BODIES

CENTRAL LEVEL				
Body	Composition	Functions	Meetings	Reports to
Executive Management Committee (EMC)	<ul style="list-style-type: none"> • <u>Chaired</u> by the PS of Agriculture • PS MoWID • PS Dept. of Nutrition, HIV & AIDS • PS MoTPSD • PS MoLGRD • PS MoF • PS MoDPC • MoLNRE (co-opted as needed) • OPC Public Sector Reform (co-opted) 	<ul style="list-style-type: none"> • Provides strategic direction for the ASWAp • Leads inter-Ministerial coordination. • Oversees development and implementation of policy decisions under ASWAp • Endorses Annual Work Plan (AWPB) • Monitors progress. 	Twice yearly	Cabinet sub-committee on agriculture
ASWAp Secretariat	<ul style="list-style-type: none"> • ASWAp Coordinator • Deputy Coordinator (Technical) • Deputy Coordinator (Administration) 	<ul style="list-style-type: none"> • Consolidates AWPBs for endorsement by the EMC. • Convenes and minutes meetings of Working Groups, the Partnership Forum and the Executive Management Committee. • Ensures timely reporting by participating implementation agencies and consolidates Annual Implementation Reports (AIRs) and possibly quarterly reports. • Liaises with donors and monitors adherence to the provisions of the MoU & the CoC • Convenes and prepares for the Annual Review Process. 	Works continuously	PS Agriculture
Sector Working Group	<ul style="list-style-type: none"> • <u>Chaired</u> by the PS, MoAFS • PS of participating Ministries • Reps of Development Partners • Reps. of NGOs • Reps. of the private sector • Reps of Farmers' organisations • Reps. of Districts (possibly one from the Northern Region, one from the Central Region and one from the Southern Region) • Reps. of relevant education institutions 	<ul style="list-style-type: none"> • Receives reports and reviews progress in the implementation of ASWAp in general and of each AWPB • Presents stakeholders' views to the EMC on ASWAp strategy and actions. • Provides forum for dialogue between for government and development partners on financial management, procurement, planning, budgeting, monitoring and evaluation. • Supports line departments in financial management, procurement, planning, budgeting, monitoring and evaluation. • Seeks to reflect informal feedback from donors on these areas. 	Once yearly (coinciding with the ARP)	Advisory
Technical Working Groups	<p>Food Security</p> <ul style="list-style-type: none"> • <u>Chaired</u> by a Director, MoAFS • 1 rep. of the MoIWD • 1 rep. of the MoLGRD • 2 reps. of NGOs • 1/2 reps. of Development Partners • 2 reps. of farmers' organisations 	<ul style="list-style-type: none"> • Supports line departments on technical issues and methodologies for the implementation of ASWAp activities within the relevant focus area (Food Security). • Advises the PS Agriculture on broad policy issues related to the activities within the relevant focus area. <p>Seek to reflect informal feedback from stakeholders on the relevant focus area.</p>	Quarterly (or more frequently on demand)	Advisory

CENTRAL LEVEL				
Body	Composition	Functions	Meetings	Reports to
	<ul style="list-style-type: none"> • 1 rep. of the private sector • 1 rep. of the districts 			
	<p>Commercial agriculture and market development</p> <ul style="list-style-type: none"> • Co-chair-MoITD and MoAFS • MCCCCI • CISANET • FUM • Ministry of Finance and Development Planning • Academia Representative 	<ul style="list-style-type: none"> • Supports line departments on technical issues and methodologies for the implementation of ASWAp activities within the relevant focus area (Commercial agriculture and market development) • Advises the PS Agriculture on broad policy issues related to activities within the relevant focus area. • Seeks to reflect informal feedback from stakeholders on the relevant focus area 	Quarterly (or more frequently on demand)	Advisory
	<p>Sustainable Natural Resource Management and Mitigation of Climate Change Effects</p> <ul style="list-style-type: none"> • <u>Co-chaired by</u> a Director MoAFS and the MoIWD • 1 rep. of the MoAFS • 1 rep. of the MoLGRD • 1 rep. of the MoNREE • 2 reps. of NGOs working in SLM • 1/2 reps. of Development Partners working on SLM • 2 reps. of farmers' organisations • 1 rep. of the districts 	<ul style="list-style-type: none"> • Supports line departments on technical issues and methodologies for the implementation of ASWAp activities within the relevant focus area (Sustainable Natural Resource Management and Mitigation of Climate Change Effects) • Advises the PS Agriculture on broad policy issues related to activities within the relevant focus area. • Seeks to reflect informal feedback from stakeholders on the relevant focus area. 	Quarterly (or more frequently on demand)	Advisory
	<p>Monitoring and Evaluation</p> <ul style="list-style-type: none"> • Chaired by Director of Agricultural Planning Services • Directors of Planning in participating Ministries/Departments (Water & Irrigation, MoITD, Ministry of Finance and Development Planning, OPC-HIV/AIDS • DCAFS- Chair • FUM • CISANET • MCCI • Academia (Principal- Bunda College) 	<ul style="list-style-type: none"> • Supports line departments on M&E methodologies for the successful implementation of ASWAp • Advises the PS Agriculture on M&E issues of the ASWAp. • Seeks to reflect informal feedback from stakeholders on M&E. 	Quarterly (or more frequently on demand)	Advisory

APPENDIX 8: TERMS OF REFERENCES FOR THE ASWAp SECRETARIAT AND KEY STAFF POSITIONS

The ASWAp will require the following:

- (a) Good communication between the different elements of the organizational structure;
- (b) Submission of work plans and reports on time and, as necessary, their consolidation prior to transmission for decision; and
- (c) That the Partnership Forum and the Management and Technical Working Groups are convened and minutes prepared on their deliberations
- (d) That development partners have a contact point for day-to-day communication with the ASWAp on technical, administrative and management matters, and on financing.

6.1 The TORs of the ASWAp Secretariat are as follows:

- a) Receive and consolidate annual work plans and budgets prior to their submission to the Executive Management Committee for endorsement;
- b) Ensure timely reporting by various departments of the MoAFS, other participating ministries and districts;
- c) Draft the Annual Implementation Report for endorsement by the Executive Management Committee;
- d) Prepare other documentation as required for annual progress reviews;
- e) Convene, draft agenda for, and minute meetings of the Executive Management Committee, the Management and Technical Working Groups, and the Partnership Forum;
- f) Prepare proposals and position papers as required for endorsement by the Executive Management Committee or the Permanent Secretary, MoAFS as appropriate;
- g) Monitor the development partners' compliance with the Code of Conduct and Memorandum of Understanding on the ASWAp; and
- h) Liaise with the development partners, responding to requests for information and arranging *ad hoc* meetings outside the cycle of meetings for the various bodies and structures responsible for ASWAp delivery.

6.2 Summary Job Descriptions for Key Staff

6.2.1 Head of Secretariat (ASWAp Coordinator)

He or she will be responsible for the work of the Secretariat and report to the PS directly or through the CAETS or DAPS.

Responsibilities

Key responsibilities shall include:

1. Review and consolidation of ASWAp annual work plans and budgets prior to their submission to the Executive Management Committee for endorsement;
2. Coordination of the preparation and submission of the draft Annual Implementation Report for endorsement by the Executive Management Committee;

3. Preparation of relevant documentation as required for annual progress reviews;
4. Serve as Secretary for the meetings of the Executive Management Committee and Partnership Forum;
5. Preparation of proposals and position papers as required for endorsement by the Executive Management Committee or the Principle Secretary, MoAFS as appropriate;
6. Monitoring the development partners' compliance with the Code of Conduct and Memorandum of Understanding on the ASWAp; and
7. Liaising with the development partners, responding to requests for information and arranging *ad hoc* meetings outside the cycle of meetings for the various bodies and structures responsible for ASWAp delivery.
8. Linking with various stakeholders at national and international level involved in ASWAp activities
9. Providing leadership and supervision to staff under the Secretariat
10. Undertaking any other responsibilities as may be assigned by the PS or the Executive Management Committee

6.2.2 Deputy Coordinator (Technical)

Under the general leadership of the ASWAp Coordinator he or she shall be responsible for the management operations of the ASWAp. Specific responsibilities shall include:

1. Preparation and consolidation of reports of Technical Working Groups
2. Advising Directors and technical staff on matters of implementation of the ASWAp
3. Monitoring implementation of technical work plans and programmes by various key stakeholders
4. Identification and facilitation of capacity building needs for effective implementation of approved programmes
5. Facilitation of development and or review of technical systems, policies and guidelines
6. Serve as a Secretary of Technical Working Groups
7. Undertake any other duties that may be assigned by the ASWAp Coordinator as appropriate.

6.2.3 Deputy Coordinator (Management)

Under the general leadership of the ASWAp Coordinator he or she shall be responsible for the technical operations of the ASWAp. Specific responsibilities shall include:

1. Development and review of annual programmes and budgets for the Secretariat
2. Preparation and consolidation of reports of the Management Working Group
3. Coordination and facilitation of development and review of management systems (finance, procurement, ICT, HR etc) relevant to effective implementation of ASWAp
4. Facilitation of leadership and management development needs assessment among key stakeholders in liaison with Heads of divisions and departments.
5. Supervision of ASWAp support staff
6. Serve as a Secretary of the Management Working Group
7. Undertake any other duties that may be assigned by the ASWAp Coordinator as appropriate.