Kyrgyz Republic Proposal for

Funding for Agriculture Productivity and Nutrition Improvements

under the

Global Agriculture and Food Security Program

(GAFSP)



Ministry of Agriculture and Land Improvement and Ministry of Health

March 2012

ABBREVIATIONS / ACRONYMS

AADP Agriculture Area Development Project

ADB Asian Development Bank

AISP Agriculture Investments and Support Project
ARIS Community Development Investment Agency

ATC Agricultural Training Center CARs Central Asian Republics CFF Concept on Food Security DALY disability-adjusted life years

DWRLI Department of Water Resources and Land Improvement

EU European Union

FAO Food and Agriculture Organization

I&D irrigation and drainage

IFAD International Fund for Agricultural Development

ISP irrigation service fee M&E monitoring and evaluation

MBLIF monthly benefit for low income families

MDG millennium development goal

MNT micronutrient powders

MOALI Ministry of Agriculture and Land Improvement

MOF Ministry of Finance

MOM management, operation and maintenance

MSSB monthly social security benefit
MSP Ministry of Social Protection
MTBF Medium Term Budget Framework

MTDP Medium Term Development Programme

MW minimum wage

NGOs non government organizations
OIP On Farm Irrigation Project
O&M operation and maintenance
PIU project implementation unit
RAS Rural Advisory Service

SDC Swiss Agency for Development Cooperation

SUN scaling-up nutrition

UNICEF United Nations Children Fund VHC village health committees WHO World Health Organization WFP World Food Program

WMIP Water Management Improvement Project

WUA water user association

WUASU water user association support unit

TABLE OF CONTENTS

Attachments

Attachment 1	Agriculture and Food Security Strategy - Concept of Food Security of the Kyrgyz Republic for 2009-2019
Attachment 2	Agriculture and Food Security Strategy - Medium Term Development Programme of the Kyrgyz Republic 2012-2014
Attachment 3	Investment Plan – Medium Term Budget Forecast for 2012-2014
Attachment 4	Consolidated Report of the Consultation Process
Attachment 5	Independent Peer Review

Executive Summary

Economic growth in Kyrgyzstan has fluctuated substantially while its poverty levels have declined. Agriculture, although declining in its contribution to GDP remains the back bone of the economy with irrigated agriculture key to increasing incomes, reducing poverty and improving food security.

Food insecurity is chronic, affecting over 30% of the population, with poverty and low agricultural productivity as the basic cause of poor food consumption. Undernutrition is an important public health problem with stunting, wasting, low birth weight, and vitamin and mineral deficiencies causing annual losses of \$32 million. The associated rates of infant, child and maternal mortality are amongst the highest in Central Asia.

The Government of the Kyrgyz Republic has recognized that food security, nutrition security and poverty reduction are interlinked. It is addressing this through a multi-sector approach. Its development program and investment plan highlight the importance of increasing agricultural productivity and improving the nutrition the nutrition status of women and children, and improving the quality of social protection especially for vulnerable families.

The Government's Medium Term Development Program has financing gaps in agriculture of US\$111 million, in health of US\$4.7 million and social protection of US\$10.1 million.

The proposed investment project is based on successful completed and ongoing projects that have demonstrated results and existing implementation capacity. The overall objective is to increase agricultural productivity and food security of rural households in selected areas nationwide. This will be achieved through rehabilitation and modernization of irrigation and drainage infrastructure, improved water management, increased agricultural advisory services and training, and up-scaling nutrition interventions. The overall project cost is US\$42 million. The project will be implemented over five years and is expected to reach over 100,000 households, with particular attention to women and children and vulnerable groups. The project will enable the government address major issues that were identified during and extensive dual level two-phased consultation process involving over 500 people representing government and non-government agencies, potential beneficiaries and international agencies working in the Kyrgyz Republic.

Preface

In 2010 the Government of the Kyrgyz Republic submitted a proposal for funding to the Global Agriculture and Food Security Program (GAFSP) for the rehabilitation of irrigation and drainage systems managed by water users associations. This proposal was unsuccessful in securing funding. GAFSP Steering Committee commented on several key strengths of the proposal including its cost effectiveness, well-specified and realistic indicators, and a strong monitoring and evaluation framework. The weakness identified was that the long-term viability of irrigated agriculture depends on raising productivity so that water users associations can finance off-farm capital maintenance. Moreover, full financial sustainability would require a gradual increase in water user fees.

In response to GAFSP's second call for proposals in January 2012, the Ministries of Finance, of Agriculture and Land Improvement, and of Health, decided to submit a revised proposal to GAFSP. The revised proposal addresses the comments from the GAFSP on the 2010 proposal and has been amended based on a comprehensive consultation programme, in line with the GAFSP guidelines for the proposals.

The Ministry of Agriculture and Land Improvement (MOALI) coordinated an extensive dual-level two-phase consultation process in a short period of time: 8 February to 28 March 2012. MOALI conducted the national level meetings with development partners and government agencies, civil society and government agencies, and water users associations, and contracted a local non-government organization (NGO) for consultations in all seven oblasts (regions) of the country. Phase 1 focused on identifying key problems relevant to agriculture and food security, their causes, coping measures, and other measures to address the problems. In this context the original GAFSP proposal was discussed. Phase 2 discussed the revised proposal to ascertain if Phase 1 findings had been addressed and to review the design and implementation arrangements for the investment project.

Phase 1 was instrumental in redesigning the proposal from the original focus on rehabilitation of irrigation and drainage infrastructure and institutional and capacity building for water management to include two additional components on agricultural advisory services and up-scaling of nutrition interventions. It also ensured that comments by civil society, especially vulnerable groups like women, were incorporated in the proposal. A consolidated report on the consultation process is in Attachment 4.

To further strengthen DWRLI's proposal two reviews of the proposal and consultation process were undertaken by independent external academics. Their reports are in Attachment 5.

This proposal has accordingly considered the comments of GAFSP on the 2010 proposal, the findings of the two-phase consultation process, and the comments of the two external reviews.

The proposal is in two parts. Part A describes the strategy and investment plan objectives and programmes, identifies the financing and describes the consultation process and implementation arrangements. Part 2 describes the proposed investment plan including objectives and targets, components, implementation arrangements, estimated costs, supervising entity, duration, risks and stakeholder consultations.

The preferred supervising entity is World Bank. If succeffull, preparation and appraisal can start in 2012, with the project effective in early 2013.

Part 1: Summary of Overall Agriculture and Food Security Strategy and Associated Investment Plan

1.1 Objectives and Indicators

- 1. **Background**. Since independence in August 1991, the Kyrgyz Republic has been a forerunner of reform in its transition to a market-oriented economy, especially amongst the Central Asian Republics (CARs). In these 20 years it has adopted substantial macroeconomic and sector reforms. At the same time it has experienced more economic, political, social and climatic shocks than its CAR neighbours, including the Russian crisis of 1998-99, the March 2005 "Tulip Revolution", 2007-2008 food crisis, 2007 drought, frost in 2008, the global financial crisis, establishing the first parliamentary democracy in Central Asia in 2010, ethnic violence in June 2010, and further elections in October 2011.
- 2. Currently many of the key policy, strategy, investment planning, and sector specific documents have reached their end. Such key documents include the Poverty Reduction Strategy Paper Country Development Strategy (2007-2010), Country Development Strategy 2009-2011, Joint Country Support Strategy for the Kyrgyz Republic 2007-2010, and the Agrarian Policy Concept of the Kyrgyz Republic to 2010.
- 3. The Government is now in the process of reformulating its policies, strategies and investment plans as it endeavours to move the country to a higher level of growth and development, particularly after the recent political and food security shocks. The key documents are: The Concept of Food Security of the Kyrgyz Republic for 2009-2019 (CFS), the (draft) Medium-Term Development Program (MTDP) in the Kyrgyz Republic (2012-2014), and the Medium Term Budget Framework (MTBF [2012-2014]).
- 4. **Growth and Poverty**. The Kyrgyz Republic is a small, mountainous, landlocked country with limited resources. Real GDP growth has fluctuated substantially from 6.4% (2006-2008), declining to 2.9% (2009) and -1.4% (2010) and rising again to 6.2% (2011). It is projected to average 5.6% in 2012-2014. Growth still remains heavily dependent on gold production. Despite the varying rates in economic growth, the poverty rate has declined from 39.9% in 2006 to 31.7% in 2009 but increased to 33.7% in 2010. It is predicted to drop to 28% in 2014. Poverty is higher in rural areas (39.5%) than urban areas (23.6%) and varies significantly amongst the regions. Extreme poverty declined from 9.1% in 2006 to 3.1% in 2009 but also increased in 2010 to 5.3%, with 4.2% in urban areas and 6.0% in rural areas. Similarly, the Gini coefficient declined from 0.446 in 2006 to 0.363 in 2008 only to increase to 0.371 in 2009-2010. The majority of the poor are families with children. Child poverty is substantial with 40.9% of children (0-17 years) living in poverty, including 6.5% in extreme poverty. In rural areas it is 46.3 % and urban areas 30%. Per capita GDP was US\$910 in 2009 and is expected to increase to US\$1,411 in 2014.
- 5. **Agriculture**. Agriculture growth fluctuates and its contribution to GDP continues to decline. The rate of growth averaged 1.3% in 2006-2008. In 2008 it was 0.8% due to severe frosts, recovered significantly to 7% in 2009 due to favourable climatic conditions only to decline in 2010 to -2.8% due to the domestic disturbances. Agriculture's contribution to the economy has declined from 27.1% in 2006-2008 to 20.3% in 2008-2010, and is expected to decline further to 17.1% in 2014. However, agriculture remains the backbone of the economy, employing about 40% of the population but about 65% of the rural population where poverty is more prevalent.

_

¹ This is attributed to the ethnic violence and food crisis in spring 2010, particularly in the south of the country.

- 6. Farm sizes are small. Over 300,000 smallholder farmers emerged from land privatization in the mid 1990s, resulting in an average farm size of about 3 ha.² While livestock is a major agricultural activity most of the livestock are owned by small-scale farmers. Crop yields are low and variable. Wheat production meets about 40-50% of requirements with the balance imported from Kazakhstan. Farm incomes in Kyrgyzstan are driven by irrigated agriculture, which represents 80% of the arable area. In general, income from cropping is the most important source of household income, with the ownership and sale of livestock an important additional source of security and income. The continuing growth and diversification of the small crop and livestock farmers remains a major driver of poverty reduction and improved food security.
- 7. The agriculture sector continues to experience substantial adjustments in its transition to a market-oriented economy and the external shocks of recent years. Agriculture is important for growth, poverty reduction, and food security but continues to underperform, as many farms and agro-processing facilities are not operating efficiently and many are not profitable. The issues facing agricultural development are diverse and interrelated. The social accounting matrix in the World Bank's *Country Economic Memorandum 2005*³ shows high inter-sector linkage multipliers for all agricultural products above 2.6, with the multiplier for livestock products (3.2-3.5) exceeding crop products (2.6-2.8). The input supply industry multiplier is 2.7. This highlights the interrelatedness of the issues and the need for simultaneous investment in upstream and downstream sectors to take full advantage of the multiplier effects of agricultural growth. A more holistic, integrated and coordinated approach to agriculture growth and development is necessary.
- 8. The World Bank's Agricultural Policy Update 2004⁴ presents a social mobility matrix for 662 households for 1999–2002. While the study is not recent, it clearly demonstrates the importance of agriculture in lifting those in the lowest income quintile out of poverty. The study concluded that income mobility was driven by land reform and subsequent agricultural growth. However, those who remained in the lowest quintile at the end of 2002 continued to be constrained by a low agricultural asset base that limits their potential for further agricultural growth: they derived only 35% of their income from agriculture (compared with 45% for the second, third, and fourth quintiles and 40% for the fifth quintile) and spend 47% of their cash on food. As long as nonagricultural opportunities remain limited, ensuring access to land and other agricultural assets is critical for increasing the incomes and food security of those in the lowest quintile.
- 9. **Food insecurity**.⁵ Food insecurity is chronic with poverty as the basic cause of poor food consumption. From 2008 to 2010 about 20% of the population were severely food insecure with another 13% moderately food insecure. In 2007 and 2008, consumption of potatoes, vegetables and bread products exceeded the physiological consumption norms whereas consumption of meat products, milk and dairy, eggs, sugar, vegetable oil, and fruit and berries were below the norms, varying from 73% for meat products to 37% for fruit and berries.⁶ The levels and severity of food insecurity vary both seasonally and regionally within the country. As food insecure households spend about half their budget on food, any further

2

² There are also household plots that average 0.1 ha.

³ World Bank. 2005. Kyrgyz Republic Country Economic Memorandum: Enhancing the Prospects for Growth and Trade. Washington.

World Bank. 2004. Kyrgyz Republic – Agricultural Policy Update. Washington, D.C.

⁵ Source: World Food Programme, Follow-up Emergency Food Security Assessment in the Kyrgyz Republic, August 2011.

⁶ Kyrgyz Republic. *Food Security Concept 2009-2019*.

shocks through sharp rises in food prices or general increases in the cost of agricultural inputs could continue to undermine the health and nutritional status of food insecure households.

- Undernutrition. In 2006, stunting amongst children under 5 averaged 13.5% but varied across regions from 8.3% in Jalalabad to 27.3 in Talas. Wasting averages 4% nationwide but also varies from 1% in Osh to 9.2% in Jalalabad. Both stunting and wasting are more prevalent in rural areas, in poorer households, and lower educated mothers. Low birth weight averaged 5.3% with variations from 4 to 10% regionally, and is more prevalent in rural areas and less educated mothers. In the Talas region in 2008 anaemia in children aged 6-24 months and women were 50.6% and 24.5%, respectively. In addition, about 32% of children suffered from vitamin A deficiency. Only 39.5% of the population in 2007 were reported as consuming adequate iodized salt, with school children having adequate intake but pregnant women were consuming substantially less than the requirement. Poor infant and young child feeding practices are also prevalent, reflecting a lack of access to nutritious foods and a lack of awareness amongst mothers of proper nutrition for children. Breastfeeding and complementary feeding are identified as being inadequate. Undernutrition accounts for approximately 17% of disability-adjusted life years (DALY). 8 Total undernutrition attributable DALYs is 16.6%, of which low birth weight in children under 5 at 13.4% is most significant. Malnutrition attributable deaths are significant causing an estimated 21.8 % of 1,547 under-five deaths in 2004. Severe and moderate stunting caused 50% of deaths, 25% were due to low birth weight, 16% due to vitamin A deficiency, and 9% to wasting. It is estimated that annual losses of \$32 million are due to undernutrition and micronutrient deficiency, with \$4.5 million from mortality and \$27.94 million from lost productivity. The rates of infant, child and maternal mortality are amongst the highest in Central Asia. The empowerment of women is particularly important for household nutrition outcomes, especially for children's nutrition.
- 11. The Government recognizes that achieving food security, nutrition security and poverty reduction are interlinked. These are multidimensional problems that require multidimensional responses that simultaneously address food availability, access, and consumption.
- 12. **Goal and Development Objectives**. The CFS (Attachment 1) states that 'Ensuring food security entails development and implementation of economic, organizational, and other measures, directed towards prevention of food crises and satisfaction of public needs, including socially vulnerable groups, in basic food products in accordance with food consumption norms'. The aim is 'to provide all Kyrgyz citizens with permanent access to sufficient amount of foodstuffs in all regions and households'. This is to be achieved through:
 - encouraging domestic production to satisfy domestic market demand at prices competitive with imported products by stimulating the growth of the agriculture sector as the driving force of the country's development;
 - stimulating internal and external trade of agricultural products and processed goods in accordance with market and competitive rules, including price regulation, selected import quotas, improved information and marketing systems, and export stimulation;
 - guaranteeing adequate access to basic foodstuffs to all citizens of all socio-economic groups in all regions through employment creation; and

⁷ UNICEF and World Bank, Situational Analysis: Improving economic outcomes by expanding nutrition programming in the Kyrgyz Republic, June 2011.

3

The DALYs is a measure of overall disease burden, expressed as the number of years lost due to ill-health, disability or early death.

- creating and supporting favourable macro-economic and financial conditions for the
 provision of food security to all citizens by controlling and managing agricultural
 production, monitoring the food security situation, mitigating the consequences of the
 food crises, and providing assistance and ensuring food security in cases of a serious
 disaster.
- According to the CFS, food security requires the integration of the economic and 13. social conditions linked with the development of agriculture and the industrial complex, and general sustainable socio-economic development. The key issues to be addressed include: stimulating the marketing and processing of agriculture products; improving training and extension services in food production and processing, and agriculture generally; managing the natural resources to guarantee stable food supply; developing a competitive domestic food processing industry; strengthening disease control; developing a viable seed industry; establishing a social protection system to provide vulnerable groups with minimum guaranteed income to access food; developing a balanced nutrition and food culture amongst the population; creating a macroeconomic situation to strengthen and support food security; creating a public-private insurance system; strengthening the role of the Ministry of Agriculture, Water and Processing Industry (now Ministry of Agriculture and Land Improvement [MOALI]), particularly at local level; regulating food supply; financing research for seed, production technologies, processing and storage; centralizing monitoring and reporting of food security; and establishing a state reserve and buffer stock of food supplies.
- 14. A three-phased approach is adopted with Phase 1 (2009-2010) focusing on addressing the emergency measures to overcome the reduced supply. Phase 2 (2011-2015) recognizes the importance of a more holistic approach to food security in emphasizing the development of the agriculture sector, its integration with other sectors, and increasing rural social development. This is to be achieved in an environmentally sustainable manner while securing the health of the population. Phase 3 (2015 onwards) sees the introduction and effective implementation of more modern technologies to reach an optimal level of food security and to focus food policy on safe food and good quality nutrition.
- 15. The MTDP (Attachment 2) describes substantial reforms across all sectors to 'increase living standard of the population and poverty alleviation based on economic growth, improvement of business environment and development of the efficient governance system.'
- The MTDP gives a strong focus to increasing agricultural productivity and processing. The key objectives are: (i) increasing production and quality of agricultural products; (ii) increasing crop and livestock yields; (iii) extension of irrigation systems and optimization of water use; (iv) development of the land market; (v) cooperative development; and (vi) increasing access of the rural producers to financial resources, crediting and leasing development. In processing, the key strategic areas are: (i) increasing export orientation; (ii) increasing import substitution/protection of the local producers; (iii) increasing the competitiveness of goods; (iv) stimulating increased processing of domestic raw materials to increase value added; (v) improving the investment climate to attract investment; (vi) development of investment technologies and scientific developments; and (vii) training all levels of personnel for the industry.
- 17. In the health sector the MTDP emphasis is on addressing immediate health care problems including, amongst other measures, reducing the child mortality rate, improving safe motherhood, and improving the nutrition status of women and children. Under social protection the focus is to improve the quality of social protection including measures to: develop minimum social standards and methods of costing these services; improve local level

social services to focus on the needs of vulnerable families, including better identification and delivery of services to vulnerable children; and a phased increase in government allowances.

- 18. **Investment Priorities**. Both the CFS and the MTDP are to be implemented through the annual detailed plans elaborated in the three year annual MTBFs. The MTBF's are designed to link the medium-term policy and strategy with the annual budget. The MTBF describes the programs and investment plans for the implementation of the FSC and MTDP. The MTBFs, led by the Ministry of Finance, are developed through intensive consultation with development partners and are endorsed by Parliament.
- 19. The structure of the MTBFs has varied to accommodate changes in policy, strategy, priorities and organisational reform. The key elements of the MTBF 2012-2014 are in section 3: Plan Components to Achieve the Objectives.
- 20. **Monitorable Indicators**. Table 1 shows the key indicators to monitor the implementation of the FSC, MTDP and MTBF.

Table 1 Selected Monitoring Indicators and Results Targets¹

Indicator	Base (year)	Target (year)
Food Security Concept ²		<u> </u>
Medium Term Development		
Program		
Monthly average social security check (KGS)	1,664.8 (2009)	5,551 (2014)
Nominal average wage (NAW[KGS])	6,401 (2009)	14,991.3 (2014)
Minimal subsistence level (MSL) per capita of working population per month (KGS)	3,624.9 (2009)	6,163.4 (2014)
NAW/MSL of working population (%)	170 (2009)	243.2 (2014)
Medium Term Budget Forecast		
Poverty (%)	31.7 (2009)	28 (2014)
Real GDP growth (%)	3.3 (2008-2010)	5.6 (2012-2014)
GDP per capita (\$US)	910 (2009)	1,411.4 (2014)
Monthly average salary (KGS)	6,161 (2009)	15,553 (2014)
Agriculture		
Agriculture Growth (%)	1.7 (2008-2010)	3.5(2012-2014)
Percentage of Agriculture/GDP (%)	20.3 (2008-2010)	17.2 (2012-2014)
Average annual change in crop production (%)	0.8 (2008-2010)	4.1% (2012-2014)
Average annual change in livestock production (%)	2.4 (2008-2010)	2.9 (2012-2014)
Wheat production area (000 tons)	813.3 (2010)	1,100 (2014)
Social Protection		
Average wage (AW[KGS])	7,142 (2010)	15,553 (2014)
Average benefit for pregnancy and childbirth (KGS)	1,000 (2010)	3,000 (2014)
Ratio AW/average benefit (%)	14 (2010)	19.3 (2014)
Monthly social security benefit (MSSB-KGS)	1,503(2010)	2,790 (2014)
Monthly benefit for low income families with children (MBLIF-KGS)	235.2 (2010)	374 2014)
Health		
Immunization coverage of children under 1 year (%)	96 (2010)	96 (2014)

^{1.} Where key documents have the same indicator the most recent targets are adopted.

1.2 Key Elements of the Policy Environment

21. Since independence the government has pursued a market-oriented policy environment. Major policy reforms that continue to undergo change include: the liberalization of prices, subsidies, and trade. Kyrgyzstan was the first CAR country to join the World Trade

^{2.} The FSC shows actual levels for 2005-2009, preliminary for 2010, and projections for 2011-2016 for 9 separate food products. These will also be indicators for monitoring.

Organization; privatization of farm land and property and a developing land market; a reduced government role and increased private sector delivery of services including the Rural Advisory Service (RAS) for extension services, the Kyrgyz Agricultural Market Information System, and private veterinarians to deliver public vaccination programs; increasing community based management including: transfer of ownership and management of on-farm and some off-farm irrigation systems, including maintenance and cost recovery, by water user associations and federations (71% of the system); the establishment of village level organizations for the management of social infrastructure and public water, including some community level contributions; village health committees; and more recently community groups for pasture management. These organizations have improved the management of resources and services and allowed more effective inclusion of vulnerable groups; a legal framework for the seed industry and the development of a seed association, which will also support private sector seed marketing. Kyrgyzstan is a member of the international seed organizations (UPOV, ISTA and OECD); increased fiscal and administrative decentralization; legislation and regulations to improve the business environment; substantially improved legal framework for rural finance including laws on credit unions and microfinance and the establishment of a specialized rural financial institution (Kyrgyz Agricultural Finance Corporation) in 1997, which was transformed into Aiyl Bank in 2006; establishment of the Agribusiness Marketing and Competitiveness Center to address major constraints in the supply chain and improve products and marketing for export; and ratification of international initiatives on gender equality and adoption of the Law "On state guarantees of equal rights and equal opportunities for men and women."

- 22. Since independence substantial progress has been made in establishing an appropriate legal, regulatory, and institutional environment for a market-oriented economy. However, significant internal and external events have sometimes prompted change. For example, following the food crisis in 2007-2008, the then government introduced the 2008 Food Security Law that established the Food Security Council in 2009, but also proposed greater government intervention in food markets including price and trade intervention measures and the establishment of the Kyrgyz Agriculture and Food Corporation (AFC) which, amongst other responsibilities, has the authority to buy and sell in the market. The current Government is still considering some of these proposals as evident in the MTDP and MTBF, but the debate on an appropriate food security policy is ongoing. It remains unclear to what extent these interventionist measures will be implemented and how effective they would be.
- 23. Two issues that continue to hinder progress include the Land Reallocation Fund and water pricing. The LRF is managed by local governments and was established to provide land for expansion of settlements, leasing to vulnerable groups, and allocated to eligible persons who formerly missed their claim to a land plot during the land privatization program. However, LRF land is leased to cooperatives, which partly voids the original poverty reduction objective. The price of water is set by the Parliament and remains at 3 tien/m³. This is substantially below the amount estimated for proper maintenance and repair of the system.
- 24. Following the political crisis in 2010 and the election in November 2011, there is now an urgency to move the country to a higher level of growth and development, while also implementing fiscal discipline to address the budget deficit, improve governance, ensure security and restore the confidence of the people.

1.3 Plan Components to Achieve the Objectives

25. The key water resources, agriculture, health, and social protection programs aimed to improve overall food security are set out in the MTBF 2012-2014. The MTBF is revised annually and as such provides the opportunity to revise the plan according to changing circumstances. The key elements of the MTBF are described below.

- 26. In water resources the focus is on improving crop yields. The key elements include the continuation of an ongoing drainage and irrigation rehabilitation and modernization and financially sustainable management of the system with substantial development partner support. A Program for Land Reclamation and restoration of inter-farm drainage systems and structures and construction of drainage facilities is planned. As part of the Government's capital investment program construction of up to 14 irrigation projects are considered. This would provide 6,114 ha of new irrigated land.
- 27. There are three programs in the *agriculture sector*. Program 1: State agricultural policy will address key policies in food security and access of the population to basic food; the development of efficient farm structures; the development of cooperatives; strengthening legal rights to land; and the effective use and management of grazing land.
- 28. Program 2: State veterinary and sanitary control, phyto-sanitary control and promotion of agriculture includes two key subprograms: livestock and crop production. The livestock subprogram continues to implement the Strategic Plan for Veterinary Services of the Kyrgyz Republic 2008-2012, 10 which aims to redress the International Epizootic Bureau's rating of level 1 from 5. The crop production sub-program concentrates on improving the regulations for the safe handling of pesticides and agro-chemicals; increasing the availability and use of biological pest control and training of specialists; and improving the level of mechanization of agricultural processes. This will result in more high quality products, improve the quality of raw materials for processing and improve food security.
- 29. Program 3: State control of production, storage and use of seeds continues to improve seed certification and varietal improvement; improving farmers' access to improved domestic and international varieties; establishing a seed industry of international standard to produce high yielding varieties to increase domestic productivity and for export; and assessment of grains and other agricultural products to ensure high quality.¹¹
- 30. A key part of the health sector plan has been the "Manas Taalimi" sector-wide approach (SWaP) program which included support for health outcomes related to the millennium development goals (MDGs), and improving the quality of health care focusing on maternal child health, and other key areas. In addition to the SWaP an estimated \$24 million from development partners will fund improvements in health care standards, strengthening the targeted distribution of social benefits, and improvements in the health and nutrition of vulnerable groups. Some of the funds will focus on strengthening prenatal and maternity medical facilities and improving the quality of food and the role of village health committees (VHC) to carry out campaigns to improve food quality for women and children.
- 31. Of eight programs for social protection two have elements directly or indirectly supporting food security. The highest risk group 'children' are seen as receiving inadequate support. The relevant programs include: (i) marginal increases in Government benefits through increases in the minimum wage (MW), the monthly social security benefit (MSSB), and the monthly benefit for low income families with children (MBLIF). Both the MSSB and the MBLIF include small compensation for food products. The MSSB is to increase from KGS1,503 in 2010 to KGS2,790 in 2014. Similarly, the MBLIF will increase from KGS235.2

In June 2009 the MOALI approved "The program for ensuring food security of the Kyrgyz Republic for 2009-2015" which includes an implementation programme and selected indicators for the Ministry's responsibilities under "The Concept of Food Security of the Kyrgyz Republic for 2009-2019".

The strategic plan was supported by the European Community TACIS program.

The seed industry has progressed substantively under the Seed Development Project financed by the Swedish International Development Agency and currently under the World Bank's Agricultural Investments and Services Project and the Agricultural Productivity Assistance Project.

- to KGS274 in 2014 and an increase in the average benefit for pregnancy and childbirth from KGS1,000 to KGS3,000 (2014) as part of increased social security benefits for employees.
- 32. The key agencies responsible for the delivery of the planned components include MOALI for agriculture, MOH for health and MSSP for social services. The MOF will be responsible for allocating budget resources. In addition, development partners and civil society will have a monitoring function to ensure programs are directed to achieve their planned objectives.
- 33. Capacity to Implement. The FSC, MTDP and MTBF present comprehensive programs for implementation within a limited time frame. It is widely recognized that government organizations at all levels are constrained in terms of resources and capacity. The Government acknowledges in the MTDP that the existing governance structure is inadequate and government institutions are cumbersome and inflexible with superfluous functions. This hampers implementation of development plans. The MTDP proposes wide public service reforms at both the institutional and staff levels to enhance the quality, professionalism and implementation capacity of the government institutions.
- 34. **Environmental Sustainability**. The mountainous nature of the Kyrgyz Republic directly results in increased environmental vulnerability. Both lack of funding and poor conservation and sustainable use of natural resources inhibits economic development and poverty reduction. Improvements in legislation, development of a national policy on climate change, international cooperation on environmental problems to meet obligations under various global environmental conventions, programs to enhance biodiversity conservation and sustainable use of natural resources, and increased awareness and involvement of civil society in development and implementation of policies and legislation will be implemented under MTDP.
- 35. Climate Change. The Kyrgyz Republic has been adversely affected by climate change with increasing floods, severe winters, and natural disasters. Such events continue to increase the incidence of poverty and food insecurity, temporarily and in some cases permanently. Farming systems and natural resources management have to be adapted to climate change. This has to be largely addressed through rehabilitation of irrigation and drainage systems, better farming practices and inputs, and better land, pastures and water management to increase productivity, climate change adaptation, and sustainable use of natural resources.
- 36. Gender Equality. Kyrgyzstan has a strong record of the inclusion of women in decision-making both at national and community level. Measures to ensure the inclusion of women in decision-making and to ensure that policies and investments address women's needs were originally set out in the National Action Plan 2007-2010 on gender equality achievement. Kyrgyzstan has also signed and ratified various United Nations documents, joined various international initiatives, and enacted the Law 'On state guarantees of equal rights and equal opportunities for men and women' to achieve better gender equality. Gender equality will be improved during the period of the MTDP by bringing domestic legislation into agreement with international legal standards, improving institutional mechanisms for implementation of gender policy, implementing State programs to achieve gender equality, and increasing education and promotion of a gender equality culture.

1.4 Planned Composition and Level of Spending to Implement the Components

37. Table 2 shows the budget for agriculture and processing (including water resources), health, and social protection for 2012-2014. Table 3 shows actual and forecast investment revenue and expenditure and Table 4 identifies key Public Investment Program (PIP) projects.

Table 2: Budget for the Medium-Term Development Program in the Kyrgyz Republic (2012-2014)

(KGS'000/\$US'000a)

(1135 000/455 000)								
	Needs			(
Sections	Domestic	External	Total	Domestic	External	Total	Financial	
	Sources	Sources		Sources	Sources		Gap	
Development of	10,154,788/	274,857/	10,429,645/	4,698,720/	274,857/	4,973,577/	5,456,068/	
Agriculture and	207,241	5,609	212,849	95,892	5,609	101,501	111,348	
Processing								
Industry								
Health	31,193,838/	398,095/	31,591,933/	31,193,838/	165,775/	31,359,612/	232,320/	
	636,608	8,124	644,733	636,608	3,383	639,992	4,741	
Social	14,026,540/		14,026,540/	13,495,384/	36,000/	13,531,384/	495,156/	
Protection	286,256		286,256	275,416	734	276,150	10,105	
System								

a. The exchange rate is \$US1.00 = KGS 49.

Source: Medium-Term Development Program of the Kyrgyz Republic for 2012-2014, Annex 3

Table 3: Estimated Public Investment Revenues and Expenditures for State Budget and Selected Ministries 2009-2014

(KGS million)

(KGS minion)										
	2009	2010	2011	2012	2013	2014				
	(Actual)	(Actual)	(Estimated)	(Forecast)	(Forecast)	(Forecast)				
State Budget :										
Total Resources	58,791.1	68,748.3	98,970.4	94,887.8	98,848.1	103,217.7				
Total	58,579.1	68,748.3	98,970.4	99,704.2	109,053.9	119,489.9				
Expenditure:										
Current	41,450.3	56,801.3	74,787.0	82,727.4	91,570.3	103,276.5				
Capital	11,128.8	11,947.0	24,183.4	16,976.8	17,483.6	16,213.4				
External	5,656.3	8,334.7	18,323.8	12,359.6	12,006.3	8,993.3				
financed										
Domestic	5,472.5	3,612.3	5,895.6	4,617.2	5,477.3	7,220.1				
financed										
Total Gap	0.0	0.0	0.0	(4,816.4)	(10,205.8)	(16,272.2)				
Public Investment										
Program (PIP)										
State:										
Revenue	10,201.2	7,022.1	14,515.9	5,691.0	3,460.8	656				
Expenditure	5,656.3	8,334.7	18,323.8	12,359.6	12,006.3	8,993.3				
Gap	(4,544.9)	1,312.6	(3,807.9)	(6,668.6)	(8,545.5)	(8,337.3)				
MOALI:										
Revenue	345.5	243.5	827.0	253,095	41.6	0.0				
Expenditure	345.5	243.5	827.0	253,095	41.6	0.0				
Gap	0.0	0.0	0.0	0.0	0.0	0.0				
SCWRLI: ^a										
Revenue	394,348.1	342,370.4	401,806.9	667,651.5	357,395.7	193,593.5				
Expenditure	394,348.1	342,370.4	401,806.9	667,651.5	357,395.7	193,593.5				
Gap	0.0	0.0	0.0	0.0	0.0	0.0				
MOH (Public										
Health Program):										
Revenue				516.3	516.3	516.3				
Expenditure				413.1	413.1	413.1				
Gap				103.2	103.2	103.2				
Notas: a = inaludas hath		1 '		NII I	1.511					

Notes: a = includes both irrigation and drainage ongoing projects. SCWRLI has been renamed DWRLI under the MOALI

Source: Medium Term Budget Forecast 2012-2014 and Ministry of Finance

Table 4: Key Public Investment Program Projects by Selected Ministries (KGS'000)

Ministers/Duning4	20	012	20	013	2014	
Ministry/Project	Internal ^a	External	Internal ^a	External	Internal ^a	External
MoALI	34,237.8	722,968.1	10,079.8	296,729.8	0.0	0.0
Agricultural Investments and Services	5,500					
Agricultural Investments and Services		376,000.0		260,243.7		
On-Farm Irrigation 2	13,737.8		10,079.8			
On-Farm Irrigation 2		111,634.4		36,486.1		
Water Management Improvement	15,000.0					
Water Management Improvement		235,000.0				
МоН	0.0	85,540.0	0.0	26,320.0	0.0	0.0
Project "Health and social protection"		38,540.0				
Project "Health and social protection"		23,500.0		26,320.0		
Maternity and child care IV-V		23,500				
MoF	940.0	71,975.8				
Agribusiness and marketing	940					
Agribusiness and marketing		15,575.8				
Agribusiness and marketing		56,400.0				

Notes: a = cofinancing by the government.

Source: Ministry of Finance

1.5 Financing Sources and Gaps

- 38. The respective financing gaps (Table 2) under MTDP for MOALI, MOH and MSPP are \$US111.3 million, \$US4.7 million, and \$US10.1 million, respectively. Table 3 shows that while the Government's budget is expanding, primarily due to increased current expenditure, the planned investment programs for the budget in total and the relevant ministries are declining. For the period 2012-2014 the total budget gap is KGS 31,294 million (\$US652 million) of which the total investment gap is KGS23,551 million (\$US490 million) due mainly to declining external funding. Domestically financed capital investment is expected to rise. Externally funded investment in selected ministries is also declining largely due to limited pipeline investments. Table 4 illustrates this with most major ongoing projects being completed by 2013.
- 39. The Joint Economic Assessment, "*Reconciliation, Recovery and Reconstruction*", a multi-donor assessment following the ethnic violence in 2010, endorsed at the Donor Forum in July 2010, identified a financing gap of US\$70 million between 2010 and 2013, including US\$17 million only for irrigation rehabilitation for the South alone.
- 40. Major completed and on-going investments in the rehabilitation of irrigation and drainage investments have only completed about 30% of the systems. The remaining investments costs for the balance of about 750,000 ha will cost over \$200 million.

1.6 Process by which the Strategy and Investment Plan were Developed

41. The MTDP was prepared by a working group, established by the Government and headed by the Ministry of Economic Development and Trade (now the Ministry of Economy and Anti Monopoly). The working groups consisted of representatives of key Ministries, public organizations, RAS, NGOs, civil society, and development partners. The MTDP has

been revised following extensive consultations with stakeholders and is expected to be signed by the President by the end of April 2012.

- 42. The MTBF is developed annually by the MOF in consultation with Ministries and other Government agencies and development partners with final endorsement by the Parliament. MTBF 2012-2014 was approved in March 2012.
- 43. In accordance with the revised Constitution (Articles 74 and 88) all documents are required to be submitted to the Jogoshu Kenesh (the Parliament) for approval and gives civil society a significantly increased role in strengthening the democratic process.

1.7 Implementation Arrangements and Capacity to Implement

- 44. Implementation of both the FSC and MTDP will be based on annual work plans and budget allocations expressed in the three year annual MTBF. The Food Security Council is responsible for overseeing the implementation, monitoring and assessment of the FSC. The monitoring and assessment is to be carried out by a team of specialists reporting directly to the Chair of the Food Security Council. The level of food security is to be based on monitoring indicators approved in March 2009 by the Government. These indicators and their targets for 2012-2014 are appended to the FSC at Attachment 1. The assessment of food security will continue on a quarterly basis at both national and regional levels. Measures and corrective action will be taken in the annual action plan following the comprehensive assessment at the end of each year. The Food and Agriculture Organization (FAO), World Food Program (WFP) and European Union (EU) are jointly supporting the Government to strengthen the national food security information system. The support commenced in November 2011 and will be for three years.
- 45. The Prime Minister' Office is responsible for the coordination of all stakeholders in implementing the annual plans for delivering the expected objectives and results of the MTDP. The annual implementation plan agreed with all the stakeholders, with its system of indicators, will be an integral component of monitoring and evaluating the progress in promoting economic and social priorities as specified for 2012-2014 under MTDP. The indicators will be both quantitative and qualitative, monitor activities/projects, goals and objectives, national indicators, including MDGs, and the effectiveness of MTDP as a basis for change.
- 46. Responsibility for the formulation and monitoring of the MTBF rests with the Ministry of Finance (MOF) in association with the line ministries and agencies responsible for their respective budgets.
- 47. The Government has introduced the compulsory involvement of civil society and Public Advisory Councils in the formulation of strategies and legal and regulatory documents and monitoring and evaluation. This is to be incorporated into the regulations of government institutions to enhance the transparency and effectiveness of government's decisions. Moreover, in future, government decisions will be provided regularly to the public with the use of institutional web sites. Civil society will continue to be actively involved in the assessments and monitoring of the FSC and MTDP.
- 48. Capacity has been addressed in section 1.3: Plan Components to Achieve the Objectives, paragraph 33.
- 49. The priorities of the government's program are summarized in Table 5.

Table 5: Elements of Program of Food Security

- 11/2-0 0 1 - 1-1-1-1-1 0 1 - 1 - 1 - 1 - 1 -							
Elements	Main actors	Government					
		support					
	Farmers	Capacity building					
Earl production	WUAs	Capacity building					
Food production	Government	Water supply					
	Cooperatives	Capacity building					
Earl stames	Private sector	Storage					
Food storage	Government	Price regulation					
Dragogging/Montrating	Private sector	Credit					
Processing/Marketing	Government	Capacity building					
C	Government	Regulation					
Consumption	Households	Public awareness					

Part 2: Specific Proposal for GAFSP Financing

- 50. The FSC, MTDP and MTBF reflect the political will to move to an integrated approach to address food security. Implementation of the FSC is in phase 2 (2011-2015) and emphasizes that food security, while heavily dependent on agriculture, requires inter-sectoral development.
- 51. In moving to the Proposal, it is recognized that not all the elements of the strategies and investment plans can be implemented simultaneously, given the normal over ambition expressed in these documents, the available budget resources, development partner resources, and overall capacity in the public and private sectors and civil society. However, this does not inhibit the government from implementing a multi-sector approach to address poverty, nutrition and food security. The design of the investment project is based on the following principles:
 - a. a multi-sector approach, comprising the agriculture, health and nutrition sectors focusing on interrelations which are a key part of the government's mandate;
 - b. incorporate the key issues and priorities identified during the comprehensive consultation process;
 - c. minimize the introduction of new interventions and focus on interventions that have been tested, have succeeded, are cost effective, sustainable, and implementable by government;
 - d. communities should drive the demand for specific activities of each intervention to be implemented in their locality, primarily through various existing organized groups; and
 - e. civil society and development partners should play a key role in implementation through existing project activities and monitoring implementation through their participation in key stakeholder groups.
- 52. The proposal aims to take an area development approach that is more holistic, integrated, and coordinated. The approach is holistic in taking a multi-sector approach to addressing key constraints, integrated in terms of unifying interventions in specific geographic areas, and coordinated in terms of partnerships with other projects and where necessary outsourcing to effective local service providers. The proposal will address short-term investment needs in rehabilitating and modernizing irrigation and drainage infrastructure and improving water management, but also longer-term needs through the provision of advisory services and up-scaling nutrition interventions. The design and implementation arrangements will be sufficiently flexible to allow changes to meet changing circumstances in implementation. The organizational relationships and cooperation of agencies and development partners will be key to its success.

2.1 Specific Objectives and Targeted Results

- 53. **Specific Objectives**. The overall project development objective is to increase agricultural productivity and food security of rural households in selected areas nationwide. This is to be achieved through an improvement in irrigation service delivery through rehabilitation of drainage and irrigation infrastructure at on-farm level; improved water management by WUAs and farmers; increased agricultural advisory services and training; and up-scaling of key nutrition interventions. The project will also enhance appropriate capacities of various stakeholders to support the integrated and multi-sector approach inherent in the project.
- 54. **Targeted results/beneficiaries**. It is expected that as a result of this program 86,342 ha of on-farm I&D systems are rehabilitated and managed in an efficient and effective

manner by 48 WUAs serving a total of 86,342 ha and about 100,000 smallholder farms and farming families, comprising about 450,000 people, with more than half irrigating less than one ha of land, and including 20% female-headed households. About 50% of smallholder farmers and farming families, including women will benefit from advisory service and training, including owners of household plots who are mostly women. Families and particularly women and children will benefit specifically from nutrition interventions. Vulnerable groups are expected to benefit from advisory services, nutrition interventions and social protection. Additional beneficiaries will be their farming households and rural agricultural labourers for whom both demand for labour and wages are expected to increase as farm-level productivity increases, as well as the rural and urban poor who are net food buyers, as both relative food price decreases and price fluctuations are flattened.

- 55. **Links with sector strategy and investment plan**. The objective fits with the FSC and MTDP in taking a multi-sector approach to food security by including agricultural development and nutrition interventions.
- 56. **Key performance indicators**. Following the successful evaluation method applied under the World Bank financed Second On-Farm Irrigation Project (OIP-2) and adapted for the agricultural advisory service and nutrition interventions, the following indicators will be used to measure performance:
 - (1) Water distribution to farmers within 80 percent of the rehabilitated irrigation systems closely matches the crops' irrigation water requirements;
 - (2) Collection rates by WUAs at least 90 percent of total assessed fees (based on updated annual O&M plans) from the third agricultural season after completion of rehabilitation works;
 - (3) Evidence, in at least 80 percent of WUAs, of well-informed water users satisfied with the performance of the WUA management;
 - (4) At least 80 percent of WUAs judged to be representative, transparent, and accountable to their members;
 - (5) Service fees set at rates (based on maintenance needs as identified through asset management plans) sufficient to sustain the rehabilitated irrigation systems;
 - (6) Evidence, for the WUA as a whole and tail-end farmers in particular, of increased agricultural productivity in at least 90 percent of OIP-2 schemes from the third agricultural season after completion of rehabilitation works;
 - (7) Increased crop and/or livestock diversification;
 - (8) Increased participation by water users in development of a national strategy for the irrigation sector;
 - (9) Increased average crop and livestock yeilds
 - (10) Increased nutritional status of targeted households;
 - (11) Reduced incidence of nutrition related health conditions; and

2.2 Activities to be Financed

57. **Overall project structure**. The project will have five components (i) rehabilitation and modernization of physical irrigation and drainage (I&D) infrastructure, (ii) institutional development and capacity building; (iii) agricultural advisory services; (iv) nutrition interventions and social protection; and (iii) project management. The project will be implemented nationwide in selected locations.

58. The activities to be financed are based on completed and ongoing projects that clearly shown success, progressive developments, are cost effective, and sustainable. The program would need a relatively short period for preparation and funds can absorbed quickly.

2.2.1 Irrigated Agriculture

- 59. **Development and organisation of irrigated agriculture**. The Department of Water Resources and Land Improvement (DWRLI)¹² of the MOALI is the government agency responsible for management, operation and maintenance of the river system and structures and the off-farm¹³ component of the government-owned irrigation systems. Water users, through Water Users Associations (WUAs) manage the non-government and the on-farm irrigation systems. The DWRLI organizational structure is largely based on the country's administrative structure, with seven Oblvodkhoz and 43 Raivodkhoz offices located in each of the Oblasts (regions) and Raions (districts). DWRLI has about 5,200 staff, including 3,000 operations staff, with some being temporary staff employed during the irrigation season.
- 60. **Development Partner Projects**. Since independence in 1990, there have been a number of projects targeted at the irrigation sector. Table 6 summarizes the systems and areas rehabilitated under these projects, and identifies separate off-farm and on-farm rehabilitation. A significant amount of work remains to be done, with approximately 89% of all off-farm systems covering 56% of the total command area and 85% of all independent/on-farm systems covering 69% of the total command area remaining to be rehabilitated.
- 61. The World Bank funded projects have been the primary focus for I&D rehabilitation and institutional development and have substantially improved many aspects of both.
- 62. The On-Farm Irrigation Project (OIP-1) was approved in May 2002 and closed in May 2008. A second phase commenced with the approval of the Second On-Farm Irrigation Project (OIP-2) in 2007. OIP-2 was originally planned for completion in June 2013 but has been extended, with Additional Financing of US\$15 million approved in 2011, to December 2015. The project development objective for OIP-2 is to improve irrigation service delivery on a sustainable basis in order to contribute to increased agricultural productivity among irrigation farmers. The project was designed to build on the achievements of OIP-1 by expanding the rehabilitation program to cover a further 51,000 ha managed by some 29 WUAs and strengthening WUAs and the management, operation and maintenance at the onfarm level, particularly in relation to the maintenance work carried out and service delivered. Additional Finance has enabled a further 18 WUA systems totalling some 35,000 ha to be rehabilitated together with continued support for WUA development and strengthening.

¹² In 2010 the DWRLI was renamed the State Committee on Water Resources and Land Improvement (SCWRLI) and included responsibility not only for irrigation and drainage but also water supply. In February 2012,

15

SCWRLI was again renamed DWRLI and again became solely responsible for the irrigation and drainage.

The off-farm system comprises the headworks and main (conveyance) canal up to the delivery point to the onfarm systems. On-farm systems generally comprise tertiary and quaternary systems delivering water to farmers' fields. Larger on-farm systems may also include secondary canals.

Table 6: Summary of areas rehabilitated to date and remaining to be rehabilitated

	Implementation	Off-Farn	n Systems	Independent/On- Farm Systems		
Project	Period	Number of Systems	Command Area (ha)	Number of Systems	Command Area (ha)	
Irrigation Rehabilitation Project (IRP) (WB)	1998-2006	20	251,300	-	-	
Agricultural Area Development Project (AADP) (ADB)	1999-2009	-	-	20	51,215	
First On-Farm Irrigation Project (OIP-1) (WB)	2003-2008	-	-	63	121,436	
Water Management Irrigation Project (WMIP) (WB)	2006-2011	20	85,000	-	-	
Second On-Farm Irrigation Project (OIP-2) (WB)	2007-2013	-	-	30	70,036	
OIP-2 Additional Finance (WB)	2012-2015	-	-	18	34,800	
WUA Support Project (USAID)	2004-2010			28 partially	42,000 partially	
Total irrigated I&D systems/a	rea rehabilitated	40	336,300	159	319.487	
Total number of I&D syste area in the Kyrgyz Republ	_	370	765,000	734 ^a	1,020,90 0	
Estimated I&D systems/a to be rehabilitated	330	428,700	612	701.413		
Percentage of total remain rehabilitated	89%	56%	85%	69%		

a = This figure is approximate, comprising 260 community managed I&D systems serving 304,000 ha, and a further 477 WUA on-farm systems serving 732,570 ha.

63. WUAs, Supports Units, Councils and Federations. In 1997 a Resolution was passed by the Prime Minister allowing the establishment of WUAs. This Resolution allowed for the formation of WUAs, but also the legal transfer of the physical on-farm irrigation and drainage works to WUAs. In March 2002, the Resolution was upgraded to a law. Since 2002 the Government has actively promoted the establishment of WUAs, with the support of OIP-1 and OIP-2. By December 2011, 478 WUAs had been legally registered serving an area of some 737,100, or 71% of the total irrigated area with over 22,500 members. (Table 7). The most significant impact of the formation of WUAs is that WUA management is now accepted and recognized by all farmers as the legitimate authority for water management and system maintenance at the on-farm level.

Table 7: Number of registered WUAs in the Kyrgyz Republic as of December 2011

№	Oblast Name	Total Irrigated Area (ha)	Number of registered WUAs	Area Covered by WUA (ha)
1	Batken	57,240	32	47,504
2	Jalalabad	125,587	68	97,520
3	Issyk-Kul	154,987	62	107,800
4	Naryn	119,836	48	68,200
5	Osh	129,606	92	99,300
6	Talas	112,976	70	98,300
7	Chui	320,225	106	218,006
	Total	1,020,457	478	737,100

Source: Central WUA Support and Regulatory Unit, DWRLI.

- 64. Under OIP-1 a comprehensive network of WUA Support Units (WUASUs) was established at the central, oblast and raion level, and under OIP-2 these WUASUs have been fully integrated into the DWRLI. A key on-going role of these WUASUs is to provide support to enable WUAs to build sustainable management, operation and maintenance (MOM) procedures. A key part of this capacity building is improving water management and system maintenance.
- 65. Under OIP-2 the WUASUs have continued to assist in the formation of WUAs, though the majority of the WUA formation had been completed under OIP-1. With WUAs now functioning, the task of the WUASUs is to strengthen the MOM functions of the WUAs, and improve water users knowledge and skills in water management and crop production.
- 66. To address the issue of cost recovery, asset management plans will only be prepared to help in the identification of maintenance needs (the largest budget item for WUAs) which will then be incorporated with the management and operation costs to establish the required service fee level. WUA management will then submit the proposed service fee to the General or Representative Assembly for approval. As a transparent and accountable process, and evidence of the cost of not maintaining the I&D system, this approach will enable WUA management to justify raising the service fee to a level to sustain the system over time. This is a long term process gradually increasing cost recovery.
- 67. The OIP-2 and WMIP also provide demonstrations on field productivity. There are several other initiatives to support on-farm and in-field water management in Kyrgyzstan, including Food and Agriculture Organization (FAO) and programmes supported by the Swiss and German governments. OIP-2 has linked with all these initiatives and is promoting a program to improve water management by WUAs and water users through the WUASUs.
- 68. OIP-2 is on schedule to meet its development objective and will complete all rehabilitation works by project closing, with 16 schemes completed and a further 14 under construction. The total command area rehabilitated has increased from a planned 51,000 ha to 70,036 ha. Under the Additional Finance surveys have been carried out for 28 schemes.
- 69. Further institutional development during OIP-1 and OIP-2 included the formation of Water Councils, Federations of WUAs, and the National Union of WUAs. In 2004 WUAs in some canal command areas grouped together to form a Water Council, a grouping of key stakeholders which included WUAs, the Ayil Okmotu (village government) and the Raivodkhoz. As of 31 December 2011, 40 Water Councils had been formed serving an area of some 258,600 ha. In other areas WUAs chose to form Federations of WUAs, a grouping of WUAs managing off-farm irrigation and drainage infrastructure. As of 31 December 2011,

- 25 Federations of WUAs serving a command area of 184,020 ha had been formed and legally established and are in the process of taking over the management responsibilities of some off-farm infrastructure. These Federations comprise between 2-8 members and cover command areas of between 2,200 ha to 20,000 ha.
- 70. A National Union of WUAs was formed in October 2005 and legally registered in March 2006. Currently 200 WUAs are members of the National Union, each paying a KGS 2/ha membership fee. The National Union established a secretariat and obtained funds from agencies such as the World Bank, USAID, JICA and the Swiss government to enable it to publish a quarterly newsletter "WUA Messenger", equip an office, purchase some technical equipment and publish manuals and brochures on a range of topics including budget preparation, project cycle management and water management. In 2011, a number of regional meetings were organised with WUAs, and in March 2012 the National Union organised a 2-day conference, the Second Republican Water Users Association Conference. The conference was attended by politicians, WUA managers and members, DWRLI staff, including WUASU personnel and the OIP-2 project staff. A total of 216 participants attended the conference.
- 71. The establishment of a National Union of WUAs represents an important stage in the development of WUAs. The manner in which it was formed is encouraging in that it emerged from amongst the WUAs and was not part of an "imposed" component of a project. It appears to be a natural progression of increasing confidence by the irrigation farming community in their own capabilities for management and control of their water-related environment, and is set to be a key influence on the development agenda for water users in the country.
- 72. **Selection of WUAs for I&D rehabilitation**. Both OIPs have established and refined a ranking system for selection of WUAs for I&D rehabilitation. Seven milestones were used, with WUAs achieving milestone 4 being eligible to enter into the planning and design process for rehabilitation. Among the 454 registered WUAs,305 had achieved milestone 4 by the end of OIP-1, with the ISFs paid in accordance with a properly prepared operation and maintenance (O&M) plan. A total of 78 WUAs entered the rehabilitation planning and design process, of which rehabilitation was completed for 63 WUAs serving a command area of 121,436 ha. Availability of funds, rather than the availability of eligible WUAs funds, was the limiting factor. Under OIP-2 the criteria for selecting WUAs for rehabilitation was reviewed and updated, with the new criteria having higher expectations than under OIP-1. The updated selection criteria include an assessment of: (i) the condition of off-farm infrastructure; (ii) the ISF collection rate; (iii) the WUA annual budget, in comparison with the average for the oblast; (iv) the expenditure on maintenance of the I&D system; and (v) the size of the irrigation command area.
- 73. **Service fee recovery.** Since 1990, due to the shortage of adequate finance, there have been significant difficulties at both the off-farm and on-farm levels with regard to lack of maintenance and the consequent deterioration of the I&D systems. These difficulties continue today, though there has been some alleviation at the on-farm level with the formation of WUAs and the gradual increase in service fees and increased funding of maintenance work.
- 74. With increasing pressure on the government's budget, recovery of service fees from water users is an essential component of the funding required for sustainable management, operation and maintenance (MOM) of the I&D systems. The WUAs have an impressive record with recovery of the ISF by the DWRLI increasing from 71% of the assessed amount in 2001 to close to or over 100% in 2011, ¹⁴ Debts for previous periods of under-payment have been repaid. In 2002 the debt to the DWRLI was KGS 64 million and by December

¹⁴Repayments over 100 percent are made to cover repayments for under-payment in previous years.

2007 had been reduced to KGS 8.96 million.¹⁵ At the same time the form of payment has been changing. In 2002 only 19 % of the ISF was paid in cash, with the remainder being paid in kind (crops or labour). By 2010 the amount being paid in cash had increased to 53%.

- 75. The government's ISF rate has remained mostly static, while the average ISF set by the WUAs has been increasing as WUAs seek to increase the funds available to them for MOM. In 2001 the average fee set was US\$0.06/m³ (with a range over the seven oblasts from 0.96¹⁶ to 3.72 tyin/m³). In 2010, the average fee set was 6.65. tyin/m³ (ranging from 2.8 to 9.28 tyin/m³). As the WUA's O&M costs are relatively static, the major beneficiary from these increased fees is system maintenance.
- 76. The ISF makes an important contribution to the MOM costs of the DWRLI, contributing between 8-13% to the DWRLI budget. The total sum contributed has increased from around KGS 400,000 in 2001 to around KGS 1 million over the period 2004-2010 (Table 8). However, per unit area the ISF amount paid is low, in the region of US\$1.50/ha. Since 2001 the DWRLI budget has increased markedly year-on-year (except 2005). Under WMIP, the DWRLI is reforming and modernizing its management systems. One of the key areas of reform is to change its accounting and performance assessment systems from raions to individual irrigation systems. This will significantly increase transparency and accountability by enabling water users (through their WUAs) to see how much is being collected and spent on their individual systems, and hold the DWRLI to account for this income and expenditure. Through this individual system performance assessment process the water users will be able to assess the level of service they are receiving, and will have a basis for discussing the service fee and service provided. From the DWRLI's perspective it should serve to help convince water users of the need to increase the ISF as the off-farm system maintenance needs are identified and the production cost impact of inadequate maintenance are highlighted.

Table 8: Contribution of the ISF to DWRLI costs, 2000-2010

Item		Year									
item	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
DWRLI annual expenditure (000 US\$)	3,629.24	3,979.08	5,585.66	6,070.82	7,477.72	6,193.50	7,282.08	9,447.11	10,664.86	12,010.53	13,391.19
Increase in annual expenditure (%)	-	10%	40%	9%	23%	-17%	18%	30%	13%	13%	11%
Income from water users (ISF, 000 US\$)	n/a	408.26	543.17	825.45	1,071.08	932.05	1,135.51	1,169.68	1,096.83	999.23	254.21 ¹
Income from ISF as percentage of total											
DWRLI income ²	-	9%	9%	12%	13%	13%	13%	11%	9%	8%	2%
Average income per unit area (US\$/ha)	-	0.53	0.71	1.08	1.40	1.22	1.48	1.53	1.43	1.31	0.33

Notes:

1. ISF income to 1st September 2010 only

2. Income from ISF not included in SCWRLI annual expenditure figure. ISF percentage calcualted as percentage of SCWRLI expenditure and ISF income

3. Total irrigated area managed by SCWRLI taken as 765,000 ha

Source: DWRLI records and OIP Annual Reports

- 77. Data from recent studies under OIP-2 of farm budgets and farm incomes for different sized landholdings in different oblasts show that increasing the ISF to sustainable MOM levels would raise its share of the net farm income from between 0.3-5% to between 3-20% without rehabilitation and 0.2-4% to between 2-13% with rehabilitation. These figures show that there is room for increasing the ISF from current low levels, given that irrigation is central to crop production and systems need to be maintained if they are to deliver irrigation water to farmers' fields.
- 78. From the data provided by these studies it is important to note the regional differences, with Issyk-Kul and Naryn being areas with particular difficulties in relation to net incomes and ability to pay the ISF. These factors are heavily influenced by the climatic conditions in these regions.

¹⁵2007 Annual Report and Quarter IV, 2007 Progress Report, OIP.

¹⁶ The lower fee levels are for Naryn where agriculture is problematic due to climatic and topographic conditions

2.2.2 Agricultural Advisory Services

- 79. Agricultural advisory services are currently provided by RAS, the Training and Extension System Center, and smaller private entities. RAS is the largest provider and its establishment and development was substantially supported by the World Bank, International Fund for Agricultural Development (IFAD) and the Swiss Agency for Development Cooperation (SDC). RAS is country wide following its decentralization in 2001 and the registration of Oblast RAS units as autonomous public foundations in 2005/2006. With its decentralization the Agricultural Training Center (ATC) was established to provide technical support and training to the Oblast level RAS entities. In addition, in 2005-2006 an Association of Regional Rural Advisory Services was established at the national level.
- 80. A key project demonstrating the benefits of an integrated approach and the coordination and cooperation of various donors and agencies, including agricultural advisory services was the Agriculture Area Development Project (AADP) funded by the Asian Development Bank (ADB). AADP was approved in December 1999 and closed in June 2009. The project had 4 components that included legal aspects of land privatization arrangements, advisory services and training, credit, rehabilitation of drainage and irrigation infrastructure, development of agribusiness and domestic and export market links. The key results include:
 - rehabilitation of about 51,215 ha of irrigation and drainage infrastructure, with the World Bank OIP-1 providing the support for WUA development and water management. A clear demonstration of development partner cooperation;
 - training of 14,700 farmers, about 45% of farmers in the WUAs whose I&D systems were rehabilitated, through competitive contracting and performance based payment of two extension agencies resulting in:
 - o a substantial increase in yields with yields of trained farmers exceeding the average yields of all farmers across seven crops by an average 62% ranging from 33% for potatoes and 176% for onions;
 - o significant change in cropping patterns and concentration on crops reflecting farmers freedom in crop selection, a shift towards animal feed crops, and the influence of prices and market trends:
 - an increase in farm incomes per hectare from KGS 725 to KGS 8,170 (1999 prices);
 and
 - an overall economic rate of return of 18.3% compared to 13% at approval.
- 81. Currently, most projects delivering advisory services are doing so through contracting of such services with varying independent demand driven roles of farmers. For example, the World Bank funded Agriculture Investments and Services Project (ASIP) is providing funding on a declining basis for the contracting of extension services directly by community-level Farmers *Koshuuns* (Unions). The *Koshuuns* will define their needs, contract services, monitor and pay for the services. In addition to farm management practices, agronomic and technical advice, integrated crop and livestock management, AISP is supporting integrated pest management and soil fertility management largely though demonstration and farmer field schools. Pasture management extension services will also be provided with the Community Development and Investment Agency (ARIS) responsible for channeling extension grants to the eligible communities and/or community institutions. Under WMIP has supported the establishment of four demonstrations by RAS to demonstrate improved cultivation and irrigation practices to WUASU and farmers. About four demonstration plots per Oblast are planned which will also provide opportunities for other extension services in

¹⁷ ADB June 2011. KGZ: Agriculture Area Development Project: Project Completion Report. Manila.

crop and livestock husbandry. Other development partners including FAO, SDC and GIZ are also supporting advisory services.

2.2.3 Health, Nutrition and Social Protection

- 82. To date, undernutrition has been addressed largely through health programs. Several programs have been undertaken or are ongoing which have:
 - 1. improved breastfeeding and complementary feeding behavior as well as improved legislation to implement the World Health Organization's (WHO) international code for breast milk substitutes;
 - 2. established a bi-annual distribution of high-dose vitamin capsules for children 6-59 months, reaching 95% of children;
 - 3. piloted the distribution of micronutrient powders (MNPs) to enhance complementary feeding in Talas, which proved successful iand has been expanded to all oblasts with support from Swiss Red Cross (Naryn), UNICEF (Osh and Jalal Abad), and Soros Foundation (Batken, Chui and Issy Kul);
 - 4. established VHCs to increase community outreach and work with the national health system to improve health in their own villages;
 - 5. improved the curriculum and training of medical workers on nutrition requirements for children, adolescents, and adults; and
 - 6. increased food fortification, particularly the fortification of salt with iodine and wheat flour with iron, folic acid and other B vitamins being guided by the Food Fortification Working Group under the Ministry of Health. Food fortification was initially supported by ADB (two projects) and subsequently by UNICEF, World Bank and the Global Alliance for Improved Nutrition (GAIN) providing technical support. Fortification requires a multisectoral effort to be effective.
- 83. Scaling up nutrition interventions will reduce undernutrition, productivity, and mortality. Estimates for an increased coverage of 20% indicate reductions in low birth weight of up to 7.4%, stunting by 3.6%, iodine deficiency disorders by 3.3%, maternal anemia by 26% and childhood anemia by 4.2%. An estimated 122 deaths a year could be averted for children
- 84. Kyrgyzstan was recently accepted as the first CAR into the global Scaling-Up Nutrition (SUN) Movement, which encourages a multi-sector approach to food security. The SUN Framework recommends two complementary approaches to reducing under-nutrition. One is the adoption of direct nutrition-specific interventions that focus on pregnant women and children aged less than two years. Interventions that are known to be effective such as the promotion of good nutritional practices, micronutrients (vitamins and minerals), and complementary feeding are recommended. Two is to adopt a broader multi-sectoral nutrition-sensitive approach to address the determinants of under-nutrition. This includes: promoting agriculture and food security to improve the availability, access and consumption of nutritious foods; improving social protection; and ensuring access to health care (including maternal and child health care, water and sanitation, immunization and family planning). This multi-sector nutrition-sensitive approach requires nutrition objectives in all sector policies so any negative consequences on nutrition can be identified and reduced.
- 85. The two social protection programs available that address poverty, vulnerable/low income groups, and food access are the MSSB and the MBLIF. Both programs, which are financially insignificant compared to need and coverage, are expected to increase over the forthcoming years. Recently the World Bank in response to the food crisis provided \$5 million to top up the MBLIF to compensate for the loss in purchasing power for 360,000 people from socially vulnerable groups. The European Union has continued the top up, added a vitamin A supplement program to more than 1 million children aged 6-59 months and to

nursing mothers, and supported the promotion of flour fortification, subsidizing the price for targeted vulnerable groups.

Project component 1: Rehabilitation and modernization of I&D infrastructure.

- This component will focus on the rehabilitation and modernization of I&D systems on 86,342 ha managed by 48 WUAs and WUA Federations. Works to be carried out include the rehabilitation of irrigation canals, the cleaning of drains and storage reservoirs of sediment, and the rehabilitation/construction of outlets and other hydraulic structures. WUAs will be required to repay 25% of the costs relating to their I&D system, agreed upon by at least two thirds of the membership. This stipulation has worked well under OIP-1 and OIP-2 as it requires the WUA to consult with its members and gain full commitment to the rehabilitation and subsequent processes for fee recovery and sustainability. It is the starting point to develop the water users' sense of ownership of both the process and the physical works and serves to restrain the costs, focus improvements on priority works, enhance quality and minimise opportunities for misappropriation of funds. As the proposal is for grant funding, the 25% repayment will be repaid to a WUA Support Fund managed by DWRLI for other investments in WUA infrastructure and equipment in the future. This Support Fund has already been established under OIP-2 following discussions between the World Bank and government. Rehabilitation work will be carried out through the same engineering staff structure as under OIP-2. This structure consists of an Oblast Reconstruction Team headed by a chief engineer, supported by two regional engineers, one based in Osh for the Southern oblasts (provinces). and another one in Bishkek for the Northern oblasts. Regular technical supervision by the World Bank has shown that this system yields good results, with high quality rehabilitation works and designs which are in line with the requests of the WUAs.
- 87. It is proposed to have two design teams, one in the south and one in the north. Supervision will be directly conducted by field supervisors under the control of regional engineers and chief engineer.
- The average rehabilitation and modernization cost per hectare is estimated at US\$ 302 88. including about 10% for design and supervision and some costs to address critical off-farm infrastructure but excluding price and physical contingencies. This per hectare cost is derived from recent construction contracts under OIP-2 and hence reflects recent unit prices of construction works. Although this provides a sound basis for component cost estimation, actual costs will vary widely, depending on technical needs, farmers priorities and willingness to repay their share, and, eventually, economic viability. The average per hectare cost does not imply a target of a ceiling. Total estimated component cost for the rehabilitation and modernization of the targeted 86,342 ha would thus be US\$ 26.13 million. In case there would be a shortage of funds, the list of registered and pre-selected WUAs already prepared by the PIU of OIP-2 would facilitate any required reduction of funds by selecting all those WUAs already ranked according to priority for which funds would be sufficient. In case more funds would be available, any additional I&D scheme could be easily chosen from the extended list of registered WUAs available with the PIU of OIP-2. Incoming new requests for I&D rehabilitation/modernization submitted by registered WUAs to the PIU would be subjected to screening, and would enter the list depending on their score and subsequently on their respective ranking.

89. **Reasons for choice**

• **Development need**: I&D rehabilitation and modernization has proved in the past under OIP-1 and OIP-2 to be the basic condition and driving force of rural development. Due to existing albeit dilapidated I&D infrastructure, there is a physical

base for water delivery (in the form of canals and hydraulic structures) coupled with experience in water management and irrigation amongst the already functioning WUA management and irrigation farmers. It is proposed under this project to rehabilitate and modernize both the physical and human/social assets leading to more secure and increased crop production and subsequently improve the income of irrigation farmers and the wider rural community.¹⁸

- **Food security**: Increased crop production contributes to improved food availability in rural areas which leads to better access to food at lower costs for the poor.
- Country need and Government priority: Irrigation is fundamental to crop production in Kyrgyzstan. As outlined earlier a large number of I&D systems still require rehabilitation and modernization and the Implementation Completion and Results Report for OIP-1 has shown that the economic rate of return (ERR) was of the order of 20%. For AADP at completion it was 18.3%. Estimated ERRs for OIP-2 is 23% and 22% for the Additional Finance for OIP-2, including a financial rate of return to farmers of 19%. Thus rehabilitation and institutional development provides a significant economic and social benefit to Government, as well as to the immediate beneficiaries.
- Consultations. Rehabilitation of I*D was one of the main concerns of farmers in Phase 1. There was unanimous support for the I&D component as improved access to irrigation water would enable farmers to increase sown areas, increase yields and hence increase incomes. Access to other inputs and credit were considered useless if access to irrigation water was not reliable.
- 90. **Project component 2: Capacity building in water management**. Under OIP-1, Support Units at Central, Oblast, and Raion level were established. They received international technical assistance to be trained in the principles and practices of WUA formation and development, on-farm management, and O&M. The WUASUs then assisted in the formation and registering of WUAs throughout the country, and followed by training in WUA governance and system MOM. To assist in the MOM of the system, technical credit was provided to enable the WUAs to purchase office furniture, computers, printer, vehicles, portable measuring devices, and communication equipment.
- 91. For those WUAs which received funds for rehabilitation under OIP-2 project design teams have been established at Oblast level to work in close consultation with WUA management to determine the rehabilitation needs of each I&D system. Designs were prepared, checked by WUA Management and then tenders issued for construction, with the WUA Management appointing a sub-committee to assist the project in construction supervision.
- 92. The same approach will be followed under the proposed project, strengthening the WUASUs whenever and wherever required and extending technical and financial support to them during the execution of the project. This will include supporting the PIU, WUASUs and WUAs beyond the closing date of OIP-2 (December 2015) until the end of the proposed project in 2018. This support will mainly comprise incremental costs for project activities

_

¹⁸ Various studies have shown that the multiplier effect in the wider community of successful irrigation development can be up to 2-3 times the direct impact amongst irrigation farmers.

¹⁹ The ICRR states that this is a conservative figure as the yield increases were measured for one year only while full benefits would materialize after several years, and other substantial benefits were not incorporated in the calculations. Other benefits included savings of water which could be used downstream, changes in cropping patterns, the benefits of institutional strengthening and social benefits including a reduction in conflicts over water and time spent irrigating.

which are beyond the scope of their regular WUA support, since their base costs are funded by the Government.

- 93. This component will comprise all measures to continue and strengthen the existing process of building the capacity of WUA management and water users to MOM their irrigation and drainage systems. Given that OIP-1 and OIP-2 have done much of the initial work of WUA formation and initial training this project will focus on adding value through strengthening WUA management and water users' capabilities in specific areas, including water management and system maintenance. The work will build on the on-going OIP-2 work on water management and asset management by extending the reach of the training and capacity building, not only to WUAs undergoing rehabilitation but also to WUAs which will not benefit from rehabilitation work but would benefit from improved water and asset management practices. In addition, building on the good experience with the demonstration plots under WMIP further effort will be put into supporting agricultural extension, making use of RAS growing capability in this field. The component will also work with DWRLI to strengthen their capacity to provide adequate water.
- 94. The main tasks to be accomplished under this component thus include: (i) further strengthening and training of WUASUs, WUA Management and water users; (ii) improving system operation to achieve more efficient and productive water use; (iii) improving maintenance management (through adoption of asset management procedures) to ensure that maintenance needs are identified and adequately financed, (iv) providing technical credit to WUAs to provide the facilities required for effective operation and management, (v) expanding environmental monitoring, analysis, and action, (vi) collaborating with agroservices providers, and (vii) supporting WUA related organizations, including water councils, federations, and the National Union of WUAs.
- 95. In order to achieve women's economic empowerment including their participation in decision making OIP-2 will conduct a study in 2012-13 to better understand the current role of women in the irrigated agricultural sector in Kyrgyzstan. The study will also make recommendations and will prepare training material and other programmes to enhance the involvement and engagement of women in the sector. The project will build on and extend this work to a wider number of farming communities.
- 96. Building on the evident interest of WUAs to engage in Water Councils, Federations and the National Union it is proposed that in a new initiative the project support the WUAs in moves to strengthen their standing in the country and engage with local and national government in policy and strategy formulation. It is proposed that a short study is carried out to determine how this might be achieved, but initial thinking is that it would involve strengthening the National Union of WUAs and providing opportunities to form regional WUA Councils under the National Union.
- 97. Implementation of this component will require a limited amount of local and international consulting services, goods, mainly to re-equip the WUA SUs, and to provide office and field equipment and machinery to WUAs, and operational funds for WUA strengthening and training.

98. **Reasons for choice**

• **Development need**: Development of WUAs enhances ownership and participatory decision making. WUA members, both men and women, benefit significantly from the interventions under this component. This leads to increased motivation and engagement of the rural population in determining their own development needs. Greater involvement with local and national government in policy and strategy formulation will ensure more relevant policies and strategies in the sector.

- **Food security**: Improved MOM is essential for making the best use of the rehabilitated and modernized I&D infrastructure. Physical rehabilitation alone is not sufficient, it needs to be combined with institutional development leading to engagement and participation by the beneficiaries if the full benefits of increased production and enhanced livelihoods are to be achieved.
- Country need and Government priority: Considering the limited financial resources available to the Government, more efficient and effective use of the water resource by empowered local communities (e.g. WUAs) who care for and manage their assets frees Government to focus on other important rural development issues, such as the construction of roads, local processing facilities or marketing.
- Consultations. Participants in Phase 1 identified problems with on-farm irrigation systems and ownership of WUAs and their operations (low technical capacity, cooperation with farmers etc). In Phase 2 participants underlined the importance of strengthening WUAs capacity, ownership, monitoring and evaluation of WUA performance and transparency. Participants also identified the need for farmer training in effective use of irrigation water, agricultural techniques, storage, and price formation etc.
- 99. **Project Component 3: Agricultural Advisory Services**. The provision of agricultural services through various projects has clearly demonstrated the benefits to farmers in terms of increased yields, improved cropping practices and better farm and livestock management. This component will ensure the provision of advisory services either by leveraging existing projects in the targeted locations or financing providers to deliver appropriate services. As far as possible the provision of services will be demand driven so where possible either *Kuushens* or other community groups will identify their needs and in some cases will directly contract the services.
- 100. Initially a survey in each location will be undertaken to identify potential groups such as WUAs, household plot owners, small livestock owners without farms, and other potential groups that would benefit from the provision of advisory services, demonstrations and training. Following the survey and the establishment of need and the identification of currently available providers, mechanisms for financing and monitoring the delivery of the services will be agreed with the community groups. Where services have to be financed this will be done on a competitive basis and all payments will be performance based determined by the evaluation by participants following selected training and demonstrations.
- 101. While the services required will be determined by the community groups it is expected farmers would be trained in farm planning and management, agronomy, crop production, farm diversification, livestock husbandry, water resources management, soil protection, IPM, marketing, contracting, processing etc. The service can be provided through training, demonstrations, and advice. Where feasible training of trainers will be undertaken. Participants in training and demonstrations will be appropriately tested and awarded with a certificate on completing the training and passing the test.

102. Reasons for Choice.

• **Development need.** The rehabilitation of I&D systems and water management support ensures the supply and better distribution of water and its management. While it does improve yields from less water logging and more regular supply of water the provision of advisory services has been shown to substantially boost yields of farmers even more to provide increased production. Increased yields in

- crop and livestock production are essential. Currently, while advisory services are available they are not always easily accessible by all farmers.
- Food Security. Kyrgyzstan needs increased supplies of essential crop and livestock products to meet the increasing domestic demand and for food security. Coupled with this increasing supply is the need to ensure food is of sufficient quality and nutrient value. Extension coupled with I&D rehabilitation, improved water management, and nutrition interventions provides a comprehensive approach to redressing the food security concerns.
- Country need and Government Priority. The Government is concerned about food security and is in the process of introducing various measures of protection and re-entering the market itself. While this is currently a substantial problem it is imperative farmers yields are substantially increased to at least average expected yields and not remain at minimum levels. Substantial increases in yields and overall production are necessary for the Government to minimize its direct involvement in food supplies.
- Consultations. Participants in Phase 1 emphasised a consistently a lack of knowledge and the need for training. Farmer field schools were specifically identified because farmers could continue to exchange knowledge after the completion of the project. The inclusion of this component was highly appreciated by the Phase 2 participants and emphasised in addition to theoretical training, demonstrations through farmer field schools would provide sustainable access to knowledge. The training should also attract young farmers, be adjusted to the local situation and needs, and groups be homogenous with similar interests and the same level of knowledge.
- 103. **Project Component 4: Upscaling Nutrition Interventions** The purpose of this component is to improve the nutrition levels of beneficiaries especially women and children through both short-term actions to address the more vulnerable women and children immediately at risk and longer-term actions to provide more sustainable solutions to malnutrition and undernutrition. There are five key areas of intervention.
- 104. **Supplemental feeding**. Pregnant women will be provided daily supplements of vitamins and minerals to meet their substantially increased nutritional requirements and micronutrient powders will be provided as complementary feeding for children 6 to 24 months of age to increase their vitamin and mineral intake that is not available from eating flour products.
- 105. **Nutrition education program**. Behaviour changes will be pursued through education programs at the community level. These programs will be aimed at mothers, adolescent girls and pregnant women and include early initiation of breast-feeding; exclusive breastfeeding until six months of age; breastfeeding from 6 to 24 months with timely and appropriate complementary feeding; and education on water sanitation and hygiene and treatment of diarrhea and malnutrition. A community-wide sensitization to make men as well as women aware of the importance of maternal nutrition and improved maternal and child feeding practices will be completed early in the project.
- 106. **Social Protection**. Through the initial consultations with communities people will be made aware of the requirements for accessing social protection via the government's MSSB and MBLIF payments. During implementation the project will ensure that all eligible beneficiaries are accessing these payments as this will provide some small income.
- 107. **Dietary diversification.** A program to work on household plots, commonly cultivated by women, to improve dietary intake by increasing the production and adequate consumption

of micro-nutrient rich foods including both plant and animal products. Income and some asset accumulation by women will be generated through the sale of surplus food products which will also increase the availability and diversity of food for other people in the community. These activities can be closely linked with component 3 to set up demonstrations, provide technical advice and facilitate the availability of seeds, fertilizer, and animals.

108. **Inter-sectoral Coordination**. Health, nutrition and agriculture are interlinked and have bidirectional effects. Initial steps will be undertaken to address the different views, available resources and capacity of government agencies. Technical assistance will be provided to work with multi-agency working groups to facilitate the preparation of food security, nutrition and sector strategies to ensure the linkages and effects of health, nutrition and agriculture are properly incorporated. This will include policy, strategies and implementation plans to ensure better programming, budget allocation and effective actions are taken. A clearly defined monitoring and feedback process will be developed.

109. Reasons for choice.

- **Development need**. Increasing undernutrition has both short term and long term effects that reduce immediate and long term productivity and infant and maternal mortality. Evidence exists in Kyrgyzstan of successful programs in up-scaling cost effective interventions.
- **Food security**. Food security issues have generally been addressed primarily through agriculture development. It is well recognised that a broader multisectoral approach is essential if food and nutrition insecurity are to be more effectively addressed.
- Country need and government priority. Not to take a broader approach to food security, upscale nutrition interventions, develop longer terms community leele education and household plot cultivation will ultimately result in additional health and medical costs, lost productivity of mature workers, and in some cases reduced educational achievement.
- Consultations. Through the work of the VHC, participants in Phase 1 were very aware of nutrition related diseases and the need for proper nutrition. Phase 2 participants greeted the inclusion of this component and suggested special attention to pregnant women and poor families, the need to learn about preventative measure against nutrition related diseases, the use of TV and radio media, and the inclusion of trainings on nutrition in component 3 and demonstrations on fruit and berry processing.
- 110. **Project Component 5: Project Management**. This component will provide the technical assistance, capacity building and day-to-day management, including administration, coordination of the project, procurement, financial management and monitoring and evaluation in line with the procedures of the World Bank. In order to aim at cost-effectiveness, as much as possible, use will be made of qualified existing staff within the PIU for OIP-2, with the core team comprising a project manager, one engineer based in Bishkek, two regional engineers, an M&E Team with two specialists, a financial manager, a procurement specialist, institutional specialist and policy/strategy specialist. If funding is approved project preparation will identify appropriate staffing for all components.
- 111. Various teams of consultants (individuals and local companies) for water management studies and training, asset management studies and training, monitoring and evaluation surveys, environmental and financial audits, legal assistance aimed at WUA development, food security, nutrition and policy/strategy specialists will be hired as needed, mainly on short-term input.

112. Reasons for choice:

- Country need and Government priority: The country still lacks a sufficient number of qualified professionals able to manage on behalf of the Government such a relatively large and multi-sectoral project. The existing OIP-2 project management structure has evolved over time (since the beginning of OIP-1 in 2002), and is now considered to be efficient and effective. It is in the interest of the Government to continue in the proposed project with a model of management (viz. a "healthy" mix of local/international consultants and local companies) proven in the past, and achieve economic project results through continuity of staff employed and methods applied.
- For the Government to begin to effectively address food security it is essential that it commences a more coordinated, integrated and multi-sectoral approach to addressing food security. While agriculture is fundamental to addressing food supply it is also important to be cognizant of the nutrition qualities and for the population to be made aware. The current project is taking initial steps in this regard by building on accepted activities and approaches that have worked within individual projects, PIUs and agencies to coordinate these activities in a more efficient and effective manner.

2.3 Implementation arrangements.

113. **Selection of locations**. The project will build on the successful OIP-1 and OIP-2 models in which WUAs have been selected for inclusion in the project according to agreed selection criteria. There are 104 possible WUAs identified covering a command area of some 177,000 ha. Following consultations with the Raion (District) WUASU, this number was reduced to 68 WUAs with a total command area of some 130,000 ha. Currently 48 WUAs have been ranked according to priority and proposed to be included for funding. At December 2011 there were 97 WUAs (Table 9)requesting support to rehabilitate their I&D systems which substantially exceeds the administrative, technical and financial means of OIP-2 by a factor of 3.5.

Table 9: WUAs asking for support to rehabilitate their I&D systems

№	Oblast	WUAs	Command Area (ha)
1	Batken	10	15,606
2	Jalalabad	15	22,971
3	Issyk-Kul	17	29,996
4	Naryn	17	27,612
5	Osh	12	20,725
6	Talas	14	34,139
7	Chui	12	33,216
	Total Country-wide	97	184,265

Source: Written requests by WUAs submitted to Support Units, forwarded to OIP-2 Project Implementation Unit (PIU)

- 114. The WUAs will provide the initial target for the agricultural advisory services and nutrition intervention components. Both components will be aimed at WUA members but will be extended appropriately to include household plot owners, vulnerable groups, and VHCs to identify women, children and vulnerable groups.
- 115. The MOALI will be the executing agency for the Project. As the secretariat to the Food Security Council MOALI is well placed to provide the essential coordination role of various stakeholders in the multi-sector approach being adopted. The Minister or delegated deputy Minister will chair a working group comprising representatives of the Ministries of

Finance, Economy and Anti Monopoly, Health, Social Development, participating donors, participating private sector enterprises, and civil society. The working group will meet on a regular basis and at least quarterly to monitor progress and provide guidance on crucial policy and strategy issues. The working group will report to the Food Security Council on a quarterly basis. International and national technical assistance support will be provided to the working group principally to assist with the multi-sectoral nature of the Project requiring strong coordination arrangements with various agencies and development partner cooperation. This structure wil be further discussed and agreed during preparation.

- 116. The implementation of component activities, especially components 3 and 4 will require close cooperation between development partners, NGOs and other agencies providing assistance in the target areas. The project will seek the cooperation of others to provide assistance in their respective activities and only where there is a gap between the needs and the availability of assistance will the project finance the necessary activities and services.
- 117. **M&E Framework**. For components 1 and 2, the proposed project will build on the M&E practices developed under OIP-1 and OIP-2. These practices combined the work of the project M&E Specialist and the WUA Regulatory Authority, enabling monitoring and evaluation of both the project and the WUAs. Monitoring and evaluation for components 1 and 2 requires the identification of outcomes arising from the following main processes (including those system tools recently introduced under OIP-2):
 - Rehabilitation of some 44 WUA-managed I&D systems and subsequent benefits arising from the rehabilitation works, including levels of irrigation service fee recovery to ensure that systems are sustainable;
 - Introduction of revised system maintenance identification, planning, and costing procedures using asset management procedures, leading to WUAs setting higher levels of ISFs to ensure that systems are sustainable; and
 - Introduction of revised water management procedures leading to improved efficiency, productivity, and equity of water use.
- Organization of M&E. As with OIP-2, the M&E team will coordinate and collate the 118 monitoring information generated by management and operational staff on the physical performance and progress of the project, from which the results-based monitoring information will largely be drawn. The M&E team will also be responsible for overseeing the development and implementation of survey instruments associated with the project, covering internal performance monitoring, WUA performance monitoring, WUA monitoring surveys, and special studies, as well as the management and coordination of all monitoring and evaluation activities. The M&E team will liaise closely with the PIU project engineers and the Central WUA Support and Regulatory Unit on the planning and implementation of project activities. The internal monitoring activities will be similar to those carried out under OIP-2, and will involve the rationalization, coordination, and compilation of summaries and further analysis of the progress reporting carried out by the coordinators of each project component and the Central WUA Support Unit. Where appropriate the M&E team will be assisted by external consultants, for example for impact studies. The M&E processes and procedures will benefit from recommendations and updated procedures derived from a recent (December 2011) study carried out by an international M&E consultant.
- 119. Data collection, analysis, und use of information. The data for M&E will be drawn from internal project documents and records, secondary data sources where available, and from custom-designed surveys and studies, using both interviews and participatory techniques as appropriate. The main instruments will include:
 - Internal monitoring by WUAs;

- WUA Annual Report and Annual Survey;
- Annual water users survey; and
- Baseline surveys and impact evaluation.
- 120. Internal monitoring by WUAs. A further task under the project is to develop the performance monitoring and evaluation capabilities of WUA management in order that they can provide better feedback for water users on system performance. This program is allied to the water and asset management programs as part of the pathway to raising the irrigation service fees and strengthening the sustainability of the I&D systems. This work will primarily be carried out under the direction of the WUA Regulatory Authority working with WUA management through the WUA Support Units. It is intended that this process, if followed properly, will enable the WUA management to: (i) identify areas where performance can be improved, and (ii) pick up on and arrest in good time any decline in performance.
- 121. WUA Annual Report and Annual Survey. Under the law, WUAs must submit an Annual Report to the Regulatory Authority. Experience with OIP-1 and OIP-2 has shown that WUAs take this requirement seriously, and as a consequence the WUA Regulatory Authority has a valuable database dating back to 2006. Under OIP-2 this data is being used to (i) identify the better performing WUAs which can be used as examples for training of other WUAs, and (ii) identify the less well-performing WUAs where further strengthening and support is required by the WUA Support Units. This work will continue under the proposed project, with special attention being given to WUAs where systems have been rehabilitated by the project.
- 122. Annual Water Users Survey. An annual survey will be carried out of water users and farmers to ascertain their awareness of WUA affairs and satisfaction with the services provided by the WUA. This survey questionnaire will be designed by the M&E team and procedures will be developed for randomized sampling of water users within a WUA. The survey will be administered by the WUA Support Unit staff.
- 123. Baseline Surveys and Impact Evaluation. Prior to any agreement to carry out rehabilitation work of an identified WUA-managed system, the project will prepare a Submission Form for IDA that details the current situation (annual water abstraction, cropping patterns, crop yields, etc.) and the works to be carried out. In the light of experience with the analysis of 13 completed sub-projects under OIP-1, more careful and detailed studies have been carried out under OIP-2 to establish the variation of water distribution, cropping patterns and yields within the WUA command area before and after rehabilitation. These updated practices will be continued under this project.
- 124. The impact study which will be conducted at the end of the project will make use of the baseline studies detailed above, together with household surveys and interviews with key stakeholders to establish project impact and surveys in control WUAs which have not been so closely involved with the project's activities (i.e. not rehabilitated). Experience gained from the final impact survey carried out under OIP-1, and that to be carried out under OIP-2 based on recommendations made following the recent study by an international M&E specialist will be used to refine the project's impact survey.
- 125. Capacity for Monitoring and Evaluation. There is currently good capacity in M&E within OIP-2, which will transfer through to the proposed project. IDA review missions have regularly reported on the consistent high quality of project monitoring and reporting, which has included checking of scheme feasibility (through the IDA forms discussed above), preparation of quarterly and annual reports, liaison with the DWRLI's WUA Support Unit, tracking of project costs and progress, etc. It is anticipated that these high standards will be sustained under this project. However, the capacity for monitoring and evaluation within the

WUAs is under-developed at present and, as discussed above, will be strengthened during the project.

126. **Monitoring for components 3 and 4.** Several approaches are required to monitor and evaluate the activities, outputs and outcome associated with components 3 and 4. An initial needs assessment survey will help establish a baseline on the identified indicators in Section 2.3. This will also provide a basis for subsequent surveys and impact evaluation. Following the initial baseline survey it is proposed to conduct two surveys during the course of implementation. The first at about 2 years, the second at 4 years and the impact evaluation would be conducted in the final or subsequent year. In addition, beneficiaries will be required to evaluate certain project activities such as the provision of advisory services as this will assist in the performance based payment of service providers. Given the complicated nature of the monitoring and evaluation for these components international and national technical assistance will be required.

2.4 AMOUNT OF FINANCING REQUESTED

- 127. The total estimated cost for the project is US\$42.00 million, comprising US\$ 26.0 million for physical I&D works, US\$3.8 million for water management capacity building, US\$2.5 million for agricultural advisory services, US\$3.8 million for upscaling nutrition interventions, and US\$2.00 million for project management, and US\$3.8 million for contingencies. The cost estimates for the physical work are based on current ongoing costs for physical works under OIP-2, with contracts for rehabilitation of 51,000 ha having a total contract price of US\$ 14 million (average US\$ 274/ha). Additionally, on average US\$ 28 per hectare are required for design and supervision resulting in total I&D rehabilitation and modernization costs of US\$ 302 per hectare. Considering an average irrigated area of 1,700 ha per WUA, this translates into US\$ 525,000 per WUA. Cost estimates for water management capacity building are derived from estimates for similar OIP-2 works updated using current costs. Project management costs are also derived from current OIP-2 costs for the Project Implementation Unit. An overview of all component costs is shown in Table 10.
- 128. All components are essential to the success of the project, but can be adjusted to match the project financing available. Benefitting WUAs and WUA Federations will be selected according to their position on the list of registered WUAs eligible for funding according to the funds available. If funds were limited, the number of benefitting WUAs would be reduced, whereby the elimination of two WUAs would correspond to an average cost reduction of approximately US\$ one million. In other words: for an amount of US\$ 15 million, some 28-30 WUAs would benefit from the project; for an amount of US\$ 20 million, this number would increase to 40 WUAs; and for the proposed US\$ 26.68 million, all proposed 48 WUAs could benefit from I&D rehabilitation/modernization. These costs are indications which would have to be reviewed during preparation and appraisal of the detailed project design.
- 129. Similarly, for components 3 and 4 the cost estimates are generally based on costs associated with previous projects. However, given the nature of up-scaling, particularly nutrition interventions, it is necessary to add some additional contingencies to ensure sufficient funds will be available. However, if funds are limited the cost reduction would affect the number of locations selected with all components then being not available to those locations. Components 1 and 2 would not proceed in any location without components 3 and 4 and vice versa.

Table 10: Project Costs by Component

Project Component and Activities/Items	Estimated Cost (US\$ million)
Component 1: Rehabilitation and Modernization of I&D Infrastructure	•
1.1 Rehabilitation and modernization: 86,342 ha @ US\$ 274 / ha	23.6
1.2 Design of I&D systems	0.5
1.3 Oblast rehabilitation teams including vehicles and equipment	1.0
1.4 Supervision of construction works	0.8
1.5 Others (digital mapping and environmental management)	0.1
Sub-total component 1	26.0
Component 2: Capacity Building in Water Management	
2.1 Funding for incremental activities of WUA Support Units (WSUs)	1.5
2.2 WUA training and promotion	0.3
2.3 Equipment for O&M of WUAs' I&D schemes	2.0
Sub-total component 2	3.8
Component 3: Agricultural Advisory Services	
Funding to extension providers	2.5
Sub-total component 3	2.5
Component 4: Up-scaling Nutrition Interventions and Social Protection	
Supplemental feeding for pregnant women and children	1.5
Nutrition education program	0.5
Social protection (no funding required)	
Dietary diversification	1.0
Inter-sectoral coordination	0.8
Sub-total component 4	3.8
Component 5: Project Management	
5% of total of component 1 and 2 (US\$ 29.8 million)	1.5
7.5% of total of component 3 and 4 (US\$6.3 million)	0.5
Sub-total component 5	2.0
Project base costs	38.1
+ 10% contingencies	3.8
Estimated total project costs	42.0

2.5 Preferred Supervising Entity

130. It is requested that the supervising entity for all project components be the World Bank. Throughout the implementation of OIP-1 and OIP-2, and also in the ongoing WMIP, the World Bank has built up a comprehensive understanding of the I&D sector in the Kyrgyz Republic, and of the particular issues facing implementation of I&D projects. During the last decade, the World Bank has significantly contributed to the development of WUAs and their integration into the Country's legal system. The World Bank was instrumental in the issuance of the Water Law as well as in the development of the necessary by-laws. The project would be prepared and supervised according to World Bank procedures, in line with the social and environmental safeguards, and according to the fiduciary procedures required by the World

Bank. The World Bank also has had experience through several projects that have included agricultural advisory services both in supporting the development of RAS as well as contracting service providers and also in selected nutrition interventions through health and social protection projects. The World Bank undertake preparation quickly and implement efficiently.

2.6 TIME FRAME OF THE PROPOSED SUPPORT

131. The project is expected to have a 5-year duration, with preparation and appraisal over the summer of 2012, and commencing in early 2013 with completion in 2018.

2.7 RISKS AND RISK MANAGEMENT

- 132. **Agency Coordination**. A key risk is that the required coordination and cooperation necessary for the success of this multi-sectoral approach is not forthcoming because of budget, institutional and capacity constraints. The proposed project management and implementation arrangements with the overall coordination by the MOALI, the establishment of a working group comprising diverse stakeholders, and the technical assistance are designed to improve overall cooperation and coordination between agencies and development partners. There has been evidence of cooperation between MOH and MOALI in the implementation of the World Bank funded Avian Influenza project and the project will consider such lessons during detailed design.
- 133. Climate change. Climate change effects are already being experience in Kyrgyzstan with various unexpected climate events. This can add stress to agricultural systems resulting in higher prices for food and hence affecting the nutrition of the poor. Stress on natural water resources from climate change may cause farmers to adopt farming practices that are harmful to their own health and to the health of consumers. Irrigation is important in reducing climate change effects and equally important will be sustainable agricultural and nutrition practices which the project aims to achieve. More detailed analysis will become available as a result of several studies currently being undertaken.
- 134. **Funds for O&M**. For components 1 and 2, as experienced under OIP-2, the main risk is that Government does not provide sufficient funds for adequate O&M of higher-order infrastructure (e.g. off-farm conveyance canals) to supplement ISF collected from the water users. Other risks concern the time of construction and the quality of construction works, such as hydraulic structures or canal lining.
- The Government's record in providing adequate MOM budget for the I&D sector is weak, hence the emphasis under OIP-2 of increasing the ISF contribution from water users towards O&M of off-farm systems. This is also addressed in the selection criteria by selecting I&D systems in a reasonable condition, and excluding any systems where the off-farm systems are in a poor state. As carried out under WMIP, accounting procedures will be put in place under the project in order to be able to identify O&M needs and expenditure on a system-by-system basis, thus enabling water users to see the actual need and expenditure. Under OIP-2 service fees have been increasing, on both rehabilitated and non-rehabilitated systems, with water users seeking to sustain and improve the level of service delivery. Special attention will be given under the project to supervision and contract management in order to ensure timely completion of the works during the short time when construction is feasible, and not to obstruct field preparation and plant growth. The oblast-based rehabilitation teams (three staff in each of the seven oblasts) under the supervision of the two regional engineers, have played a crucial role in quality control of design and construction under OIP-2. They will continue to carry out their mandate under the proposed project as well. Furthermore, the Government will keep track of the budget allocation to WUA Support Units and discuss incremental funding for the Support Units if required.

For components 3 and 4, the risks relate to effective community mobilization, capacity of the agriculture advisory services to meet demand and quality of service, and ensuring the sustainability of the nutrition interventions. There are many organized groups already in rural areas such as the WUAs, the VHC etc. that provide an initial focus for project activities. It is expected that there are adequate agriculture advisory service providers to meet the expected demand. If not, it is preferable to ensure the quality of the service provided is not affected by expanding the coverage to broadly or too rapidly. Ensuring the sustainability of the nutrition interventions, particularly the supplemental feeding programmes requires continuous funding or support by government. However, the introduction of the diet diversification program is aimed at providing a more sustainable program to address nutrition deficiencies. The consultation process in the rural areas identified several implementation type risks that can be addressed at detailed design. The participant identified the following risks for each component. Component 1: lack of awareness of the program on start-up by all stakeholders; on-farm equipment is not recorded as an asset of the village administration; low quality equipment is procured; rehabilitation activities are in place during the farming season; lack of funds for maintenance of the rehabilitated irrigation systems; soil degradation around irrigation canals after rehabilitation works; water trays and irrigation water do not meet the requirements for delivering the certain volume of water; no roads to the irrigation canals; and concrete trays are located on farmers' plots, where they have already planted crops. Component 2: lack of clear criteria for selection of WUAs for participation in the project; lack of information on the component activities; because of lack of incentives in keeping a job in WUAs the trained staff members may quit; WUAs staff is computer illiterate; lack of feedback from WUAs; and no female representatives in WUA Council. Component 3: trainings are provided during the farming season when farmers are busy; poor farmers including women are not involved; manuals are not understandable for ordinary farmers; only theory is provided but not practice; trainings are provided in Russian language. Component 4: selection of beneficiaries is not transparent; if any products are provided through the project, they are of low quality; and lack of trainings on nutrition. Component 5: inefficient utilization of the project resources; and lack of clear mechanism for control of project resource utilization.

2.8 CONSULTATION WITH LOCAL STAKEHOLDERS AND DEVELOPMENT PARTNERS

137. A comprehensive consultation process was undertaken in two phase from 8 February to 28 March 2012. The details of this process are reported in Attachment 6. In summary, the process was in two phases. Both phases involved government agencies, development partners, civil societies, and communities. Phase 1 focussed on the issues and measures to address food security in Kyrgyzstan, reviewing the original proposal submitted by the government to GASFP in 2010, against these issues and needs, and identifying essential components for the proposal under preparation. Of significant importance in Phase 1 was the Raion level consultation in 5 Oblasts. These clearly identified community level understanding of food security issues, agricultural problem, training needs, water user association support and gender issues related to food security. Based on the phase 1 consultations the project design incorporated the components of agriculture advisory services and upscaling of nutrition interventions and social protection.

138. Phase 2 of the consultations took the new project design to all stakeholders, including repeat workshops in the raions with the participants from Phase 1, to seek their comments on whether the design addressed their issues and concerns voiced in phase 1, possible issues and risks in implementing the project, and to seek their support and endorsement for submission to GAFSP.

139. In addition, extensive consultation with all stakeholders involved in the implementation of OIP-2 has been continuous. The common assessment of needs for the rehabilitation and modernization of I&D together with Raion authorities and members of eligible WUAs ensures that the proposed project is demand driven and requested by irrigation farmers in need of assistance. This consultation was reinforced during the Second Republic Conference of WUAs on 1-2 March 2012. The meeting endorsed the proposal to be submitted to GAFSP.