GHANA

A. LIST OF NEW PROJECTS

Code	Project	Start	End
GH-1	Food Security and Rice Producers Organization Project		
GH-2	Special Programme for Food Security in Ghana		
GH-3	Project for Promotion of Farmers' Patricipation in Irrigation Management (FAPIM)		
GH-4	The Study on the Promotion of Domestic Rice in the Republic of Ghana		
GH-5	Improvement of Drought Tolerance of Rice through Within-Species Gene Transfer		
GH-6	NERICA Rice Dissemination Project		
GH-7	Inland Valleys Rice Development Project		
GH-8	Small Scale Irrigation Development Project		
GH-9	Small Farms Irrigation Project		
GH-10	Rice Sector Support Project		
GH-11	Ghana Rice Inter-professional Body		
GH-12	Rice Seed Production		
GH-13	Project for Sustainable Development of Rain-fed Lowland Rice Production		
GH-14	Development of low-input rice cultivation system in wetland in Africa		
GH15	**Development of Rice Varieties with Enhanced Nitrogen-Use Efficiency and Salt Tolerance (NUE-EST-AATF)**	**2010**	**2015**
GH16	**Improving Yield, Quality and Adaptability of Upland and Rain fed Lowland Rice Varieties in Ghana to Reduce Dependency on Imported Rice (CRI-AGRA)**	**2011**	**2014**
GH17	**GCSP/GHA/028/UNO – Dissemination of Improved Rice Production Systems with Emphasis on Nerica to Reduce Food Deficit and Improve Farmers Income in Ghana (UN-FAO/UNIDO-JAPAN GOV'T)**	**2004**	**2006**
GH18	**Expanded Rice Programme**	**2008**	**On**
GH19	**Kpong Irrigation Project**		
GH20	**An Emergency Initiative to Boost Rice Production (USAID – SARI)**	**2008**	**2010**
GH21	**Improving Organic Matter content of soil for increased yield of NERICA**	**2006**	**2011**

B. UPDATED SIEM

GHANA	Policy / institutional	Infrastructure	Human resource capacity	Provision / support	Information / knowledge	Unclassified
Seed	GH18-1; GH20-1		GH15-1;GH16-2; GH18-1	GH6-2; GH12 **GH13-2-1;GH15-3,4;GH16-3; GH17-1; GH18-1; GH20-1*	GH5; GH10-7; GH14-3;GH15-1,2; GH16-1; GH18-1	
Fertilizer	GH18-2; GH20-2			GH6-2: [+]*GH13-2-1; GH20-2*	GH20-2; GH21-1,2	
Irrigation / water management		GH2-1; GH7-1; GH8-4; GH9-4; GH10-1: a*GH3-1,2*	GH3-3;			
On-farm technology dissemination	GH4; GH18-3		GH2-2,3; GH6-1,3; GH10-3; GH13-3; GH16-2; GH18-3; GH20-3	GH8-2, GH9-2;GH15-4; GH16-1,2,3; GH17-1,3; GH18-3	GH2-2,3; GH4;; GH6-1; GH7-4; GH10-3, 6; GH13-1-2,3; GH13-3,4; GH14-1,2,4, [b]*GH13-3,d GH-5-1; GH16-2; GH18-3;GH19-1; GH20-2;GH21-1,2*	
Mechanization			GH17-3; GH18-2	[e]*GH15-2*, GH6-2; GH18-2; GH19-3		
Quality improvement	GH4; GH18-6	*fGH7-3; GH18-5,6; GH19-3*	GH6-3; GH10-3; GH16-2	*fGH7-2,3*	GH4; GH10-3; GH15-2	
Access to market	GH4; GH18-5	GH18-5	GH11-1	GH19-3	GH4; GH11-3; *gGH13-2-4;*	
Access to credit	GH10-4; GH17-2		GH17-2	GH7-2; GH10-4; GH18-4 ;GH19-2		
Overall policy tools	GH1-1,2,4; GH4; GH11-2; GH13-2-3		GH1-3; GH9-3; GH10-2; GH10-5; GH11-1; GH19-4	GH1-5;	GH4; GH13-1-1;	
Unclassified		GH19-5	GH1-6,7, GH7-3; GH8-3; [h]*GH9-3*	GH8-1,5; GH9-1,5;		
Out	GH6-4; GH7-5; GH8-5; GH9-5; GH13-3-1					

C. NEEDS SIEM

	Policy / Institutional	Infrastructure	Human Resource Capacity
Seed - breeding - multiplication - distribution			
Fertilizer - production / importation - distribution			
Irrigation / water **Management**		**	
On-farm technology transfer - Research and extension			
Mechanization			
Quality improvement - Processing / Storage		**	
Access to market - Promotion of local produce / branding			
Access to credit			
Overall policy tools			

Key

	Needs urgent attention
	Moderate attention
	Substantial Progress

D. SIEM WHICH HIGHLIGHTS THE GAPS

GHANA	Policy/ institutional	Infrastructure	Human resource capacity	Provision / support	Information knowledge/Research	Unclassified
Seed	RS-1	RS-1	RS-1		RS-1	
Fertilizer	RS-2		RS-2		RS-2	
Irrigation / water management	RS-4	RS-4	RS-4		RS-4	
On-farm technology dissemination		RS-6	RS-6	RS-6	RS-6	
Mechanization	RS-5	RS-5	RS-5	RS-5	RS-5	
Quality improvement		RS-3	RS-3	RS-3	RS-3	
Access to market		RS-3	RS-3		RS-3	
Access to credit	RS-7		RS-7		RS-7	
Overall policy tools	RS-7*		RS-7			
Unclassified						
Out						

***Community Mobilization, FBO's and Credit Management, RS-1=Seed System, RS-2=Fertilizer Marketing & Dist, RS-3=Post-Harvest & Marketing, RS-4= Irrigation & Water Control, RS-5=Equipment Access & Maintenance, RS6= R&D, RS7= Community Mobilization, FBO'**

E. SIEM WHICH HIGHLIGHTS THE PRIORITY CELLS

GHANA	Policy / institutional	Infrastructure	Human resource capacity	Provision / support	Information knowledge/Research	Unclassified
Seed						
Fertilizer						
Irrigation / water management						
On-farm technology dissemination						
Mechanization						
Quality improvement						
Access to market						
Access to credit						
Overall policy tools						
Unclassified						

***Community Mobilization, FBO's and Credit Management, RS-1=Seed System, RS-2=Fertilizer Marketing & Dist, RS-3=Post-Harvest & Marketing, RS-4= Irrigation & Water Control, RS-5=Equipment Access & Maintenance, RS6= R&D, RS7= Community Mobilization, FBO's**

F. LIST OF PROJECT TITLES WITH POTENTIAL SOURCE OF FUNDING

***HUMAN RESOURCE DEVELOPMENT FOR SEED PRODUCTION AND DISTRIBUTION* (Donor/GoG)**

- Training of all stakeholders in the industry (5 breeders (3MPhil, 2PhD), 3 seed technologists - MPhil, 30 research technicians, 9 regional seed grower associations, 2,500 extension/development staff, 50 GSID staff, 20 GGLDB staff, 100 input dealers) in seed production, storage and promotion.

INFRASTRUCTURAL DEVELOPMENT TO IMPROVE RICE SEED QUALITY (Donor/GoG)

- Establish an efficient seed storage system across the rice growing regions and district
- Rehabilitate 3 existing seed cold storage facilities across the country
- Rehabilitate and upgrade 6 existing seed storage facilities
- Construct 3 new rice seed processing and storage facilities

DEVELOPMENT OF LOWLANDS/INLAND VALLEYS WITH WATER CONTROL STRUCTURES FOR RICE CULTIVATION
(Donor/GoG)

Design appropriate water control systems in characterized inland valleys and lowlands for enhanced water management for rice cultivation

- Identify suitable characterized valleys/lowlands for development
- Survey environment to determine appropriate water control structures
- Design water control structures
- Negotiate for usufruct and tenancy arrangement for selected valleys/lowlands
- Develop valleys with appropriate water control structures (dykes, bonds, wells etc.
    - Develop 50,000ha (Phase 1) of lowlands and inland valleys

SUPPORT FOR THE DISSEMINATION OF IMPROVED RICE TECHNOLOGIES
(Donor/GoG)

- Provision of logistics (equipment for research, extension/development workers) - 1000
  -Laboratory equipment
  -Soil testing equipment
  - Motorbikes
  - Moisture Meters
  - GPS
  - Germination Trays

SUPPORT FOR THE MECHANIZATION OF RICE PRODUCTION
(Donor/GoG)

- Facilitate the provision of equipment (tractors -1000, earth moving machines -10, power tillers - 500, planters - 50, reapers - 100 and combine harvesters - 50, threshers -100, land levelers - 50 etc)

ESTABLISHMENT OF MECHANIZATION SERVICE CENTRES
(Donor/GoG)

- Promote the establishment of mechanization service centres and leasing schemes with adequate backup of spare parts
- Strengthen and expand existing mechanization service centres
- Support the establishment of additional 100 mechanization service centres in major rice growing districts

SUPPORT FOR RICE QUALITY IMPROVEMENT
(Donor/GoG)

- Provision of appropriate machinery (50 standard mills, 1-2 ton parboiling equipment, packaging equipment) at x additional processing centres
- Provision of other equipment accessories (moisture meters, scales, fork lift, etc).

INFRASTRUCTURAL DEVELOPMENT FOR RICE QUALITY IMPROVEMENT
(Donor/GoG)

- Establishment of rice processing centres
- Renovation of existing grain silos
- Provide10 additional storage facilities in the major rice producing and consuming areas