

LIBERIA)
CARD GM5 Presentation
Progress of NRDS Implementation

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1. Overview of Rice Sector

Rice Sector:

- Rice is the primary staple food of most of Liberia's 3.5 million people.
- Annual per capita consumption of rice in Liberia is estimated to be 133kg, one of the highest in Africa.
- In 2010, rice was cultivated over a land area of 251,230 Ha, with an average yield of 1.1 t/ Ha.
- The total domestic rice produced was estimated to be about 296,090 metric tons.
- The total consumption of rice is over 400,000 MT making the demand for rice higher than the domestic production.
- The challenges in the sector are enormous: Low yield, post harvest losses, moving to lowland ecologies, inputs and outputs markets, etc.

Progress and Status of NRDS Implementation

- **NRDS Status:** After the Launching of the NRDS on the 24th of April 2012 by the Minister of Agriculture the following activities were under taken;
- Working week 1 was held to identified Gap area and priority area on the SIEM Matrix identified.
- 12 priority areas were identified along the following key areas:
 - Variety improvement
 - Seed production capacities
 - Human and Institutional capacities
 - Irrigation
 - Expansion of low land under cultivation
 - Productivity enhancement
 - Information dissemination and adoption
 - Postharvest technologies
 - Access to credit along the value chain
 - Creating the enabling policy environment for increased rice production

Progress and Status of NRDS Implementation

The Second working week was conducted from January 14-18th 2013 to develop concept notes on the intervention topics created in working week one April 23-27 2012;

At the conclusion of Working Week II 5 concept notes were developed;

1. Enhancement of Post-harvest Technology;
2. Development of Irrigation to Improve Rice Production;
3. Improved Seed Production and Distribution;
4. Facilitation of Access to Financial Services for Rice Value Chain Stakeholders
5. Enhance Extension and Technical Advisory Services.

The three priority area are the following;

1. Enhancement of Post-harvest Technology;
2. Development of Irrigation to Improve Rice Production;
3. Improved Seed Production and Distribution.

Success story of NRDS

- Dissemination of the LNRDS information;
- Building synergies between the NRDS and other on going initiatives in the rice sector;
- Successful establishment of the NRDS taskforce;
- Successful completion of Working Week 1 that lead lead to identification priority areas in the rice sector;
- Successful completion of the working week II that lead to the development of concept paper on related intervention;

Other initiatives

- The following ongoing initiatives are linked to rice production and productivity for which the NRDS process tries to build synergies:
 - Agricultural Sector Rehabilitation Project (ASRP);
 - The Smallholder Agricultural Productivity Enhancement and Commercialization Project (SAPEC);
 - West Africa Agricultural Productivity Programme (WAAPP);

critical challenges in NRDS Implementation

- Financial, Human and institution requirements to move to the lowland ecologies;
- Speeding up the dissemination of improved and better variety of seed rice;
- Drastically putting in place measures to reduce post harvest losses;
- Creating the appropriate policy environment to promote rice production.

Way forward

- Preparation of promotion materials to demonstrate the relevance of the concept notes with regard to CAADP/LASIP and government priorities;
- Developing Concept Notes into full-blown project proposals;
- Lobbying for funding;
- Achievement of the Maputo Declaration target (10% of national budget devoted to agriculture – currently below 5%);
- Continued donor commitment to support agriculture programmes/projects.

Thanks

ANNEXES

- Food Crop Production Estimate;
- Rice Production based on Area and Yield in 2008/09 and 2018 Targets in Future by production system;
- No of Researchers, Technicians and Extension Workers in Future;
- Priorities of Liberia's rice sector;
- Abbreviations;
- List of Priority Interventions & Its Alignment of In-Country CAADP Framework;
- List of Champions and Organizations

Food crops production

Crop (k MT)	2008	2009	2010	2011	2012	% Growth ('12 / '08)
Rice	279,000	293,000	296,000	290,650	306,200	306,200/279,000%
Maize	N/A	N/A	N/A	N/A	N/A	0%
Cassava	496,290	495,300	493,000	489,270	N/A	0/496,290%
Wheat	N/A	N/A	N/A	N/A	N/A	%
Other food crops	N/A	N/A	N/A	N/A	N/A	%
						%

Rice Production based on Area and Yield in 2008/09 and 2018 Targets in Future by production system

Year	Upland			Lowland Rain-fed			Irrigated Lowland			Total Production	Milled Equivalent (MT)	Demand Milled (MT)
	Area (Ha)	Yield (MT/Ha)	Production (MT)	Area (Ha)	Yield (MT/Ha)	Production (MT)	Area (Ha)	Yield (MT/Ha)	Production (MT)			
2008	190,000	0.90	160,000	18,000	1.2	23,000	2,000	1.8	4,000	200,000	128,000	462,417
2009	190,000	0.90	171,000	20,000	1.2	24,000	2,000	2.0	4,000	199,000	129,350	465,500
2010	190,000	0.95	180,500	22,000	1.5	33,000	5,000	2.1	10,500	224,000	145,600	475,276
2011	190,000	0.95	180,500	24,000	2.0	48,000	6,000	2.5	15,000	243,500	158,275	485,256
2012	190,000	1.20	228,000	26,000	2.2	57,200	7,000	3.0	21,000	306,200	199,030	495,447
2013	190,000	1.50	285,000	27,000	2.5	67,500	8,000	3.5	28,000	380,500	247,325	505,851
2018	190,000	2.00	380,000	64,500	3.5	225,750	45,500	6.0	273,000	878,750	571,188	561,244
Growth '12/'08	1	1.3	1.42	1.4	1.8	2.4	3.5	1.6	5.25	1.5	1.5	1.0

No of Researchers, Technicians and Extension Workers in Future

Year	Agricultural Researchers with MA or PhD			Agriculture Technicians			Extension Workers		
	Total	Specialists with PhD	Specialists with MA	Total	Specialists with PhD	Specialists with MA	Total	Specialists (part time)	Specialists (full time)
2008	2	0	2	0	0	0	0	0	0
2009	5	1	4	6	1	5	10	5	5
2010	5	1	4	6	1	5	10	5	5
2011	7	1	6	6	1	5	10	5	5
2012	7	1	6	6	1	5	10	5	5
2013	10	2	8	6	1	5	15	5	10
2014	10	2	8	6	1	5	15	5	10
2015	10	2	8	6	1	5	15	5	10
2016	10	2	8	6	1	5	15	5	10
2017	12	2	10	6	1	5	15	5	10
2018	12	2	10	6	1	5	15	5	10
Total	90	16	74	60	10	50	130	50	80

Priorities of Liberia's rice sector (cells shown in red)

	Policy / Institutional	Infrastructure	Human resources capacity	Provision / Support	Information / Knowledge
Seed	Lib-1(6), Lib-5(1)	Lib-4(1)	Lib-3(6), Lib-3(2), Lib-4(1), Lib-5(2)	Lib-4(1), Lib-5(3)	Lib-3(1), Lib-3(3)
Fertilizer			Lib-3(2)		
Irrigation / Water management	Lib-5(1)	Lib-1(1), Lib-4(1)	Lib-3(2)		
On farm technology dissemination (E)	Lib-1(5)		Lib-1(1), Lib-3(2), Lib-4(1)	Lib-1(3), Lib-3(1), Lib-4(1), Lib-5(3)	Lib-1(2), Lib-3(3)
Mechanization			Lib-4(3)	Lib-1(3), Lib-4(1)	Lib-3(1)
Quality improvement			Lib-3(2)	Lib-3(1)	
Access to market		Lib-1(4), Lib-3(1), Lib-4(2)	Lib-4(2)		Lib-4(2)
Access to Finance			Lib-4(3)		
Overall policy tools	Lib-5(1)				

List of Abbreviations

Abbreviation	Full Name
LNRDS.....	Liberia National Rice Development Strategy
CARD.....	Collation of Africa Rive Development
CAADP.....	Comprehensive African Agriculture Development Program
LASIP.....	Liberia Agriculture Sector investment Program
RSTWG	Rice Sector Working Group
GOL.....	Government of Liberia
MDG	Millennium Development Goal
MOA.....	Ministry of Agriculture
PRS.....	Poverty Reduction Strategy
FAPS	Food and Agriculture Policy strategy
CARI.....	Central Agriculture Research Program
ASRP.....	Agriculture Sector investment Program
USAID.....	United States Agency for international Development
FAO	Food and Agriculture Organization
FARA	Forum for Africa Research association
IRRI.....	International Rice Research institute
WARDA.....	West African Rice Development Association
CFSNS	Comprehensive Food Security and. Nutrition Survey,
WB.....	World Bank

List of Priority Interventions & Its Alignment of In-Country CAADP Framework

Sl. No	CAADP intervention Topic	Intervention Element	Subsector
1.	Enabling infrastructure for rice varietal improvement, seed multiplication and seed distribution in Liberia	Infrastructure	Seed
2.	Building capacity of purity, multiplication and production of rice seeds through training of farmers, farmer/community based organizations and private seed producers	Human resource capacity	
3.	Strengthening the technical and human capacities in research, production and multiplication of seed rice		
4.	Rehabilitation of existing irrigation facilities in lowland rice production areas	Infrastructure	Irrigation/ Water Management
5.	Expansion of area under rice cultivation in Liberia by constructing new irrigation structures in lowlands		
6.	Increasing rice productivity through training of farmers and local administration authorities on integrated water management/conservation and water use techniques	Human Resource Capacity	
7.	Strengthening human capacity in water resource management in lowland rice producing areas in Liberia		

List of Priority Interventions & Its Alignment of In-Country CAADP Framework ctno

Sl. No	CAADP intervention Topic	Intervention Element	Subsector
8.	Enabling dissemination of on-farm technologies of rice production and processing by strengthening the human capacity of advisory services in Liberia	Human Resource Capacity	On-farm technology dissemination
9.	Enhancing the infrastructure capacity in post harvest handling, processing and value addition of rice in Liberia	Infrastructure	Quality Improvement
10.	Enabling environment for rural agricultural financial services to improve access to finance for farmers, farmer based organizations, processors, agro-dealers, traders along the rice value chain	Policy/ Institutional Support	Access to Finance
11.	Improved implementation and compliance of rural finance schemes and access by cooperative development agency (rice)		
12.	Capacity building of institutional support and policy formulations for increased efficiency of rice value chain	Human Resource Capacity	Overall policy tools

List of Champions

Name	Job Title	Organisation
Dr Kamal Bucharatherai	Livelihood Coordinator	CRS
Eugene P. S. Gibson	Program Officer AGRHA	AGRHA
Enamul Haque	Ag. Coordinator BRAC	BRAC
Laveto Akoi-Forkpa	program ManagerACDI / VOKA (ACF)	ACDI VOCA
Stephen M. zazay	senior Rice analyst	Ministry of Commerce
Philip S. Tamba	Technical Manager	ODAFARA
Franklin King	specialist Urban Agriculture/	GAA
James Dolo	Rice researcher	CARI
James T More	Deputy Minister for Tech. Services	Special Asst.
Harry Wonyene	Director	Ministry of Agriculture-

Action Taken to Materialize: Day 5 Participants List

Participating Organization to the Day 5 meeting
USAID
AfDB
WORLD BANK
FAO
CRS
ODAFARA
GREENSTAR
BRANCO