

NERICA DISSEMINATION IN GHANA

SITUATION OF NERICA DISSEMINATION

INTRODUCTION OF THE NERICA'S IN GHANA

Lines first introduced in 1997



PVS-r(1) (1997-1998)

PVS-r(2) (2000-2002) (WARDA:GATSBY)

PVS-e

DISSEMINATION STAGE

NRDP (Pilot Project)- 2005-2010
(UA: 2.65m)

District involved - Hohoe (V/R)
Tolon-Kumbugu (N/R)
Ejura-Sekyedumase (A/R)

GCSP/GHA/028/UNO - Savelugu Nanton, Tolon K.,
Kwaebirem, Bibiani-Anhiawso,
Wassa-Amenfi, Bia, Juabeso,
Sefwi-Wiawso

Implementation structure for NERICA Dissemination

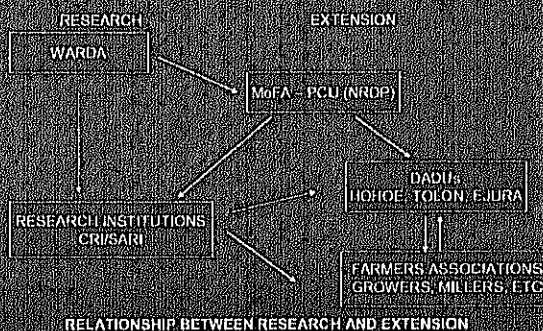
Responsible organisation for NERICA Dissemination

- Ministry of Food and Agriculture (DCS)
- West Africa Rice Development Association

Implementation organisation for NERICA Dissemination

- DADUs (Hohoe, Tolon and Ejura)
- Research Institutions (CRI, SARI)
- NGO's, Farmers Associations

Implementation structure for NERICA Dissemination Con't



VARIETY RELEASE PROCEDURE

Research undertakes multilocal/on-farm trials on the variety for at least 2 years.

Variety Release Committee invited for inspection at vegetative stage

maturity stage

Technical report prepared by researcher and should include

economic analysis study

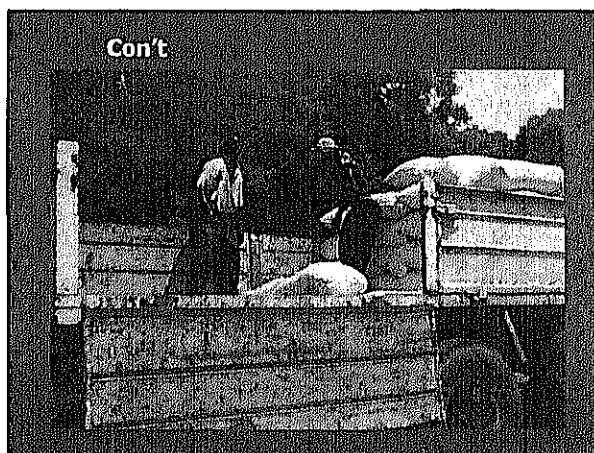
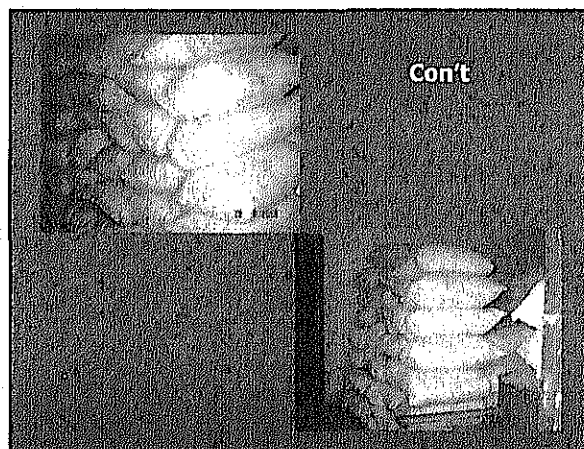
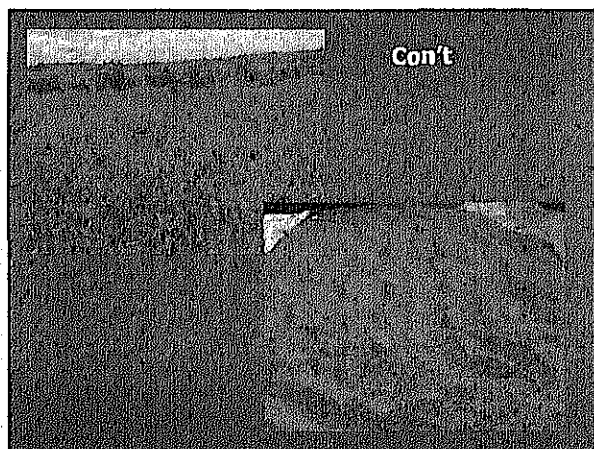
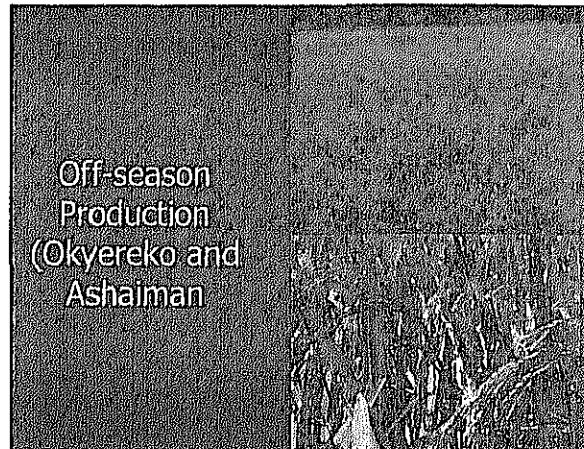
consumer analysis study

Release meeting is called for final inspection of the product

Variety declared released

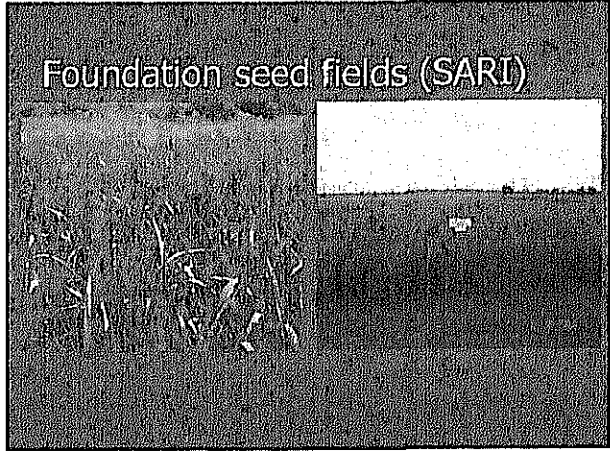
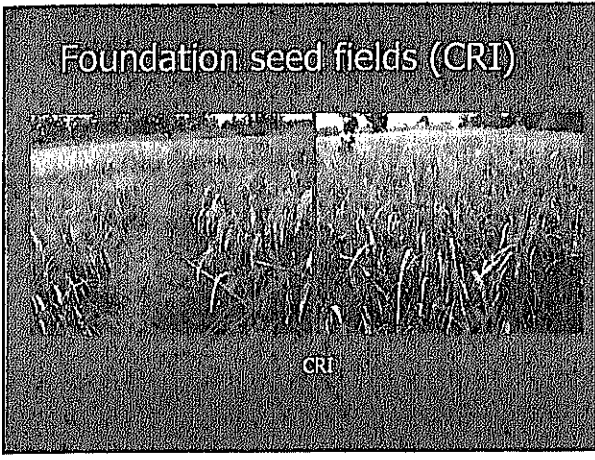
A. Technology Transfer
1. Seed Supply and Situation
 Various phases of seed production has been carried out by research and farmers organizations.

Seed availability and source	Planned	Actual
Basic Seed (from WARDA)	400kg	200kg
Savings from 2005 (Foundation)	8.0mt	6.44mt
Savings from 2005 (Certified)	-	15.57mt
Off-season multiplication-Certified (Dec. '05 – March '06)	15.0mt	12.0mt



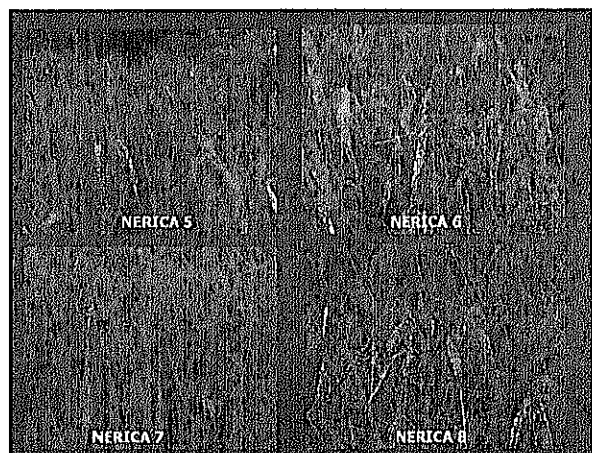
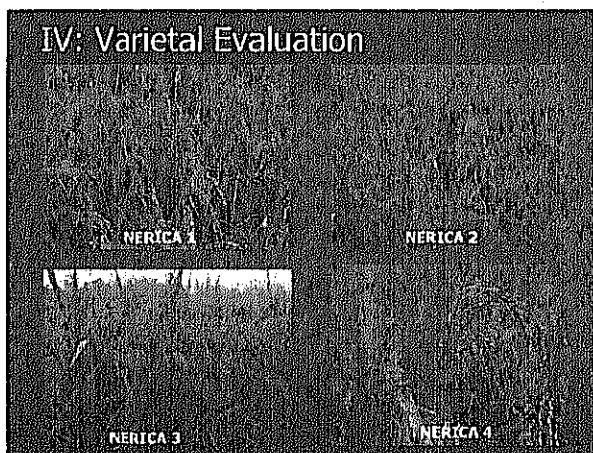
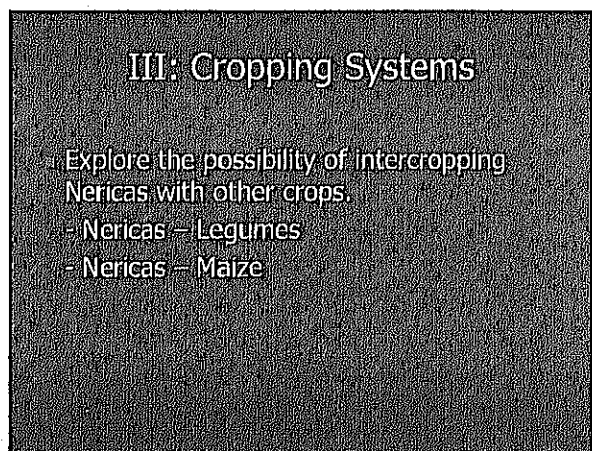
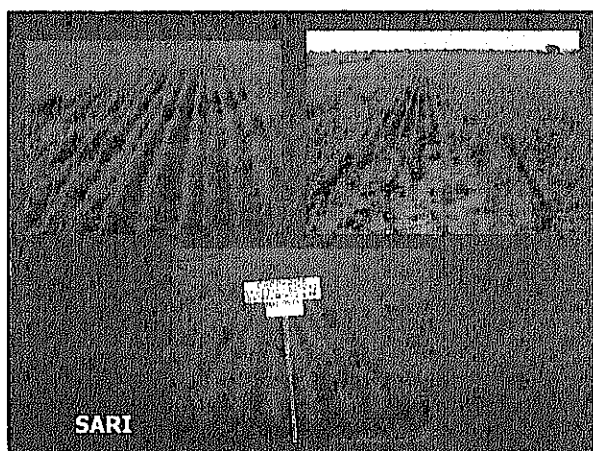
A-2 RESEARCH
I: Foundation Seed Production (2006 Main Season)

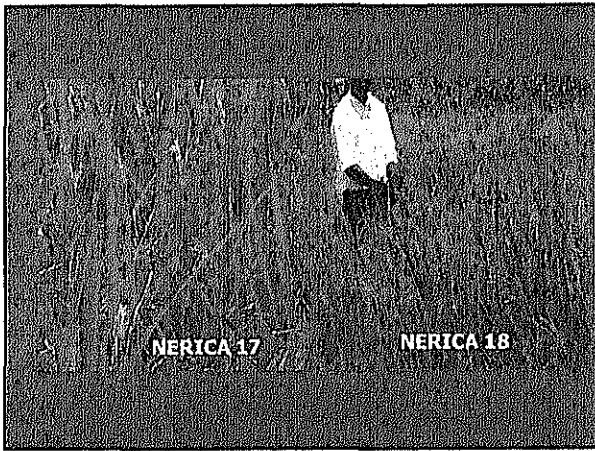
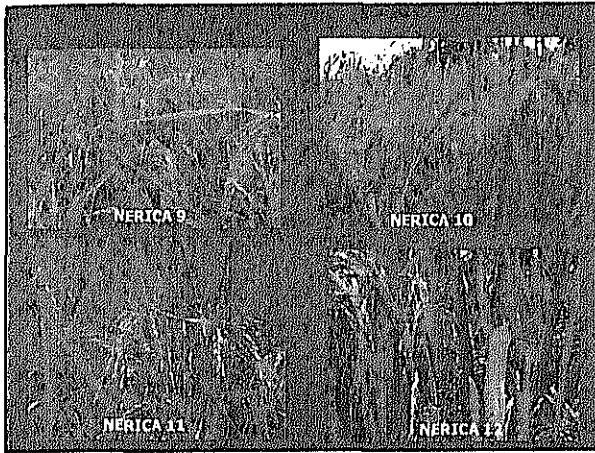
Institute	Total Hectarege	Total Output
SARI	1.6 (N1, N2)	4.0mt
CRI (Hohoe, Ejura)	3.2 (N1, N2)	8.0mt
		12.0mt



Expected Output - Certified Seeds (2006)

District	No. of Farmers	Hectareage	Output (mt)
Ejura	23	12	30.0
Hohoe	37	19.6	49.0
Tolon	105	42	105.0
Total	165	73.6	184.0





B. PRODUCTION SUPPORT
I: Formation of Farmer Groups

District	No. of FGs		No. of Farmers		Gender Distribution	
	Actual	Planned	Actual	M	F	
• Ejura	68	1300	683	352	201	
• Hohoe	57	1200	573	288	315	
• Tolon	83	1300	830	605	265	
Total	195	3800	1950	1175	781	

II: Hectareage Coverage

District	Hectareage (Ha)	
	Planned	Actual
• Ejura	200	100
• Hohoe	200	100
• Tolon	400	200
Total	800	400



III: Demonstrations

District	No. of Demos Planned	Actual Demos No.	Remark
Ejura	10	10	Minor Season (ongoing)
Hohoe	12	10	
Tolon	10	-	
Total	32	20	Minor Season (ongoing) Delayed (Minor Season)

IV: Feeder Road Improvement

District	Planned Coverage (km)	Remarks
Ejura	90	<ul style="list-style-type: none"> Letter to Ministry IAE drafted, Approved by Bank Request to OER made Initial Joint Identification DFR/DADU/DA ongoing Draft Contract Agreements in preparation to be forwarded for no objection (MoFA/Bank)
Hohoe	90	
Tolon	90	
Total	270	

C. CAPACITY BUILDING

I: Procurement of Goods and Services

Types of Goods and Services	Status
Vehicles (1 Wagon, 1 4x4 Pickup)	Contract signed
Motocycles (9 Units)	Contract signed
Computer + Accessories (8PCs, 2 Laptops)	Contract signed
Office Equipment	Contract signed
Agricultural Equipment	Awaiting approval of draft bid document

II: Farmer Training

Form of Training/Type	No. Involved
➤ Seed Growers*	165 Farmers
➤ Grain Producers*	2000 Farmers
➤ Field Days	1560 Farmers
➤ Awareness Campaigns (fora)	4000 Farmers

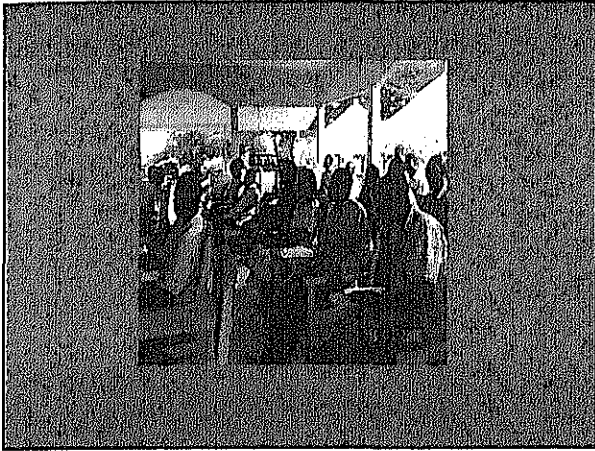
* Weekly attendance of FTS

Farmer Training



III: Technical Training for AEAs

Training Type	No. of Participants
• Technical Training in Upland Rice Production and Postharvest Technologies (2-phased training)	91 AEAs/DDOs/RDOs
• Group Formation Training	32 AEAs
• M&E Design, Reporting and use of Manuals	32 AEAs



Estimated area (ha) potentially suitable for Upland rice (incl. NERICAs)

Agric Land Area - 13,628,179ha (57.1%)

Area Under Cultivation(2005) - 7,194,900ha (30.2%)

Total Area Under Irrigation- 11,000ha (0.05%)

Area Under Inland Waters- 1,100,000ha (4.6%)

Others (Forest Reserves etc.)- 9,125,721ha (38.3%)

ECOTYPES AND RICE PRODUCTION (IN GHANA)

Type	Current Percentages(%)	Available Potential (ha)
Irrigated Pdn. Systems	10	-
Inland Valley/Lowlands	82	2.8m
Upland ecologies	8	>2.8m

MAJOR CULTIVATION AREAS

The major cultivating areas include Hohoe in the Volta region, Tolon/Kumbugu in the Northern region and Ejura Sekyedumase in the Ashanti region.

Other cultivation areas are Bibiani-Anhwaso, Wassa Amenfi West, Bia, Juabeso, Sefwi-Wiawso, Kwabibirem, Savelugu Nanton, etc.

NERICA cultivation areas

Time course change of cultivation area of NERICA

Line/Variety	Year		
	2004	2005	2006
N1 Foundation seed	-	0.94ha	-
N2 Foundation seed	-	0.94ha	-
N1 Certified seed	-	5,175ha	40.0
N2 Certified seed	-	5,175ha	33.6
N1 Grains	-	-	170ha
N2 Grains	-	-	170ha

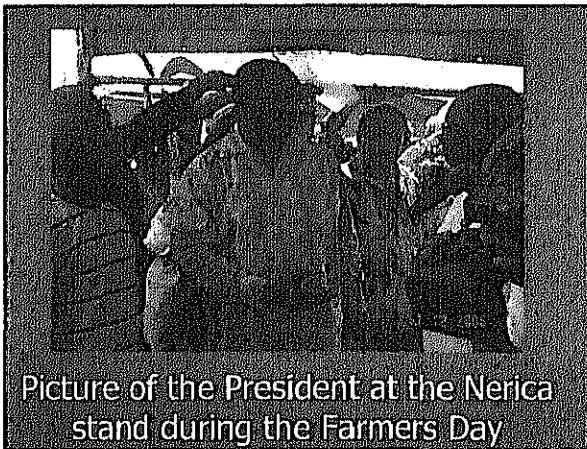
NERICA cultivation areas con't

- Total quantity of foundation seed averaging 4.6mt covered an area of 1.88ha for the year 2005.
- The certified seed production covered a total area of 10.35ha (25.57mt).
- A land area of 340ha is being used for grain production this year(2006) by 850 farmers.

MEDIA PROMOTION OF NERICAS

This year is the first time that the Nericas have been cultivated on a relatively larger scale

First time, it has been exhibited at the National Farmers' Day



Picture of the President at the Nerica stand during the Farmers Day

Over the 5years, we have targeted 15,000 farm household (12,000ha annually)

Aggressive promotion on radio, TV and print media to start earnestly

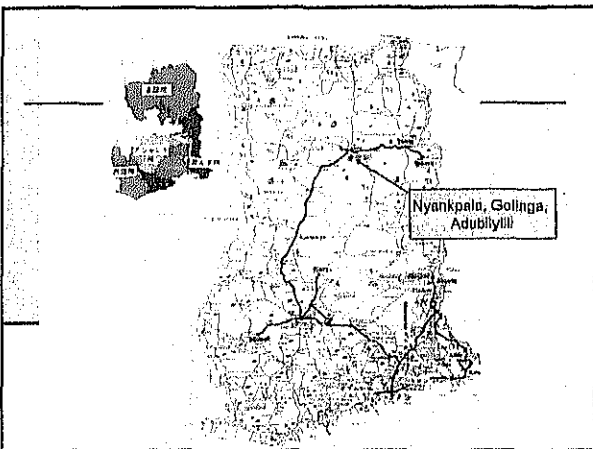


Extension of Technologies for Sustainable Food Production in Northern Ghana

Wilson Dogbe (SARI), Inusah Baba (SARI) and C. Kaneda (JAICAF, Japan)

Processes up to 2006 Trials

- The project started in 2004 with the fund from MAFF, Japan, to find advanced farmers and conduct trials on NERICA
- Socio-economic survey was conducted in Northern Region in 2004
- Out of 100 farmers surveyed in 2004, 5 were selected for growing 3 NERICA varieties in 2005 & 2006 (Locations are shown in the following map)
- In year 1, seven NERICA varieties were tested under 2 ecologies (hydromorphic and lowland) and in year 3 the same 7 NERICA varieties were tested under 3 ecologies (upland, hydromorphic and lowland)
- We have also been involved since 2005 in the ARI NERICA dissemination project.



Activity 1 Survey of rice based farming systems in the northern savanna agro ecological zones of Ghana

Objectives:

- Identify the major farming systems in the Northern Savanna agro-ecological zone
- Find farmers with advanced agricultural operations involving rice farming
- Implement with identified farmers on-farm trials on NERICA

Activity 1a Survey of rice based farming systems in the northern savanna agro ecological zones of Ghana

Methodology

- Selected major rice growing districts in Northern region
- Administered questionnaires to 100 farmers
- Follow up visit to short listed farmers by a combined JAICAF and SARI team

Farming system

The predominant farming system is a crop livestock system. Crop farming constitutes the dominant land use form. Almost all households keep some number of small ruminants and poultry in the free range.