

Farming system including rice cultivation in Northern Ghana

| Farming system | Principal livelihood | Annual rainfall | Altitude | Social characteristics | Area cultivated (Ha) |
|-----------------------------------|---|-----------------|----------|---|----------------------|
| Irrigation | Rice, soybean, vegetables, poultry, livestock | 900 - 1200 | | Busa, Kasim, Gatra, Dagonba etc | 0.2-2 |
| Lowland rice mixed | Rice, maize, sorghum, vegetable, poultry, livestock | 1000-1200 | | Dagonba, Mangruul | 1.50 |
| Cereals/Root crop mixed | Maize, sorghum, cassava, yam, legumes, livestock | 1000-1200 | | Dagonba, Garga, | 1.3 |
| Root and tuber crops/legume mixed | Yam, cassava, maize, legume and livestock | >1200 | | Garga, Korlomba, Nwumba & other ethnic groups | 1-4 |



Activity 1a On-farm evaluation of Nerica's

Methodology

- Farmer selection
- Selection of varieties
 - NERICA 1 (Black Colour code)
 - NERICA 2 (Red Colour Code)
 - NERICA 6 (Yellow Colour Code)
 - Local variety
- Planting, dibbling in rows (20 cm x 20 cm).
- Plot size 10 m x 10m.

Activity 1a On-farm evaluation of Nerica's

Methodology

- Two hand weeding at 2-3 weeks after sowing
- Basal fertilization. NPK-15-15-15 at 2 bags i.e. 100 kg/acre, (about 38 kg N per hectare) at 3 WAP
- Top dressing of sulphate of Ammonia (S/A) at 1 bag (50 kg)/acre (i.e. 26 kg N per hectare) at or about the stage of panicle initiation.

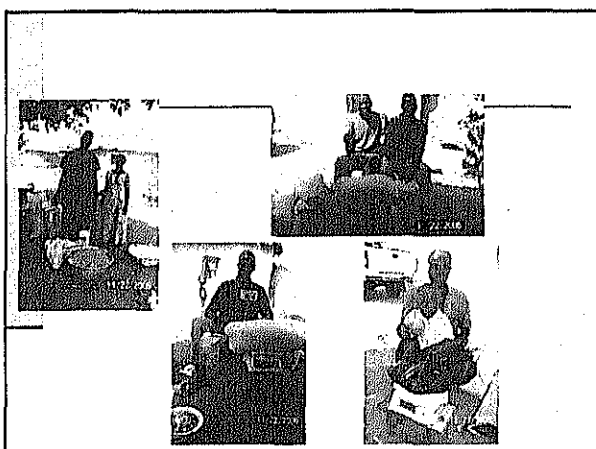


Yield of Upland Nerica's On-farm In Northern Ghana in 2005

| Variety | Paddy yield (kg/ha) at on-farm site | | | |
|----------|-------------------------------------|----------|----------|---------|
| | Nyankpala | Golnqa 1 | Golnqa 2 | Adubiyl |
| Nerica 1 | 2576 | 4962 | 3288 | 1235 |
| Nerica 4 | 2531 | 3653 | 2381 | 4156 |
| Nerica 6 | 3171 | 4955 | 3593 | 1951 |
| Average | 3166 | 4523 | 3054 | 2447 |

Yield of Upland Nerica's On-farm In Northern Ghana in 2006

| Variety | Paddy yield (kg/ha) at on-farm site | | | | Average yield (kg/ha) |
|----------|-------------------------------------|----------|----------|---------|-----------------------|
| | Nyankpala | Golnqa 1 | Golnqa 2 | Adubiyl | |
| Nerica 1 | 3577 | 2333 | 2871 | 1467 | 2562 |
| Nerica 4 | 3665 | 2890 | 2104 | 1472 | 2533 |
| Nerica 6 | 4271 | 2826 | 1544 | 1554 | 2549 |
| Average | 3838 | 2683 | 2172 | 1498 | 2548 |



Activity 2 Evaluation of 7 NERICA varieties in the Northern Savanna zone of Ghana

Objectives:

- To study the performance of NERICA varieties along the topo-sequence in the Guinea Savanna agro-ecological zone.
- To study the yield, yield components and agronomic traits of NERICA varieties.
- To multiply and obtain pure seeds for subsequent cultivation.

Materials and methods

Experimental Site:

- The experiment was conducted between June and October on the lowland and hydromorphic upland ecologies of the Savanna Agricultural Research Institute experimental fields at Nyankpala.

Experimental materials:

- The same NERICA varieties from two sources (6 from Japan and 7 from WARDA) were evaluated. A local variety, (IR 12979-24-1-1 (Digang) released in 2002 by SARI for the hydromorphic upland ecology was used as a check/control.

Materials and methods

Fertilization:

- 60-60-30 NPK kg/ha (30-60-30 NPK kg/ha at 24 days after germination and 30 kg N at panicle initiation stage)

Cultural Management:

- Initial spray with pre-emergence herbicide (Stomp) followed by two hand weeding at 3 and six weeks after emergence

2004 Jaicaf Results.doc

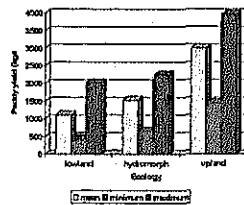
Days to maturity of Upland Nerica's along a topo-sequence in Northern Ghana

| Ecology | Variety | | | | | | | | Grand Mean |
|--------------|----------|----------|----------|----------|----------|----------|----------|-------|------------|
| | Nerica 1 | Nerica 2 | Nerica 3 | Nerica 4 | Nerica 5 | Nerica 6 | Nerica 7 | D2170 | |
| Lowland | 88 | 76 | 83 | 81 | 89 | 93 | 86 | 108 | 86 |
| Hydromorphic | 103 | 98 | 101 | 101 | 106 | 102 | 99 | 112 | 102 |
| Upland | 100 | 96 | 96 | 97 | 107 | 96 | 97 | 114 | 100 |
| Mean | 96 | 90 | 94 | 93 | 101 | 94 | 94 | 111 | |

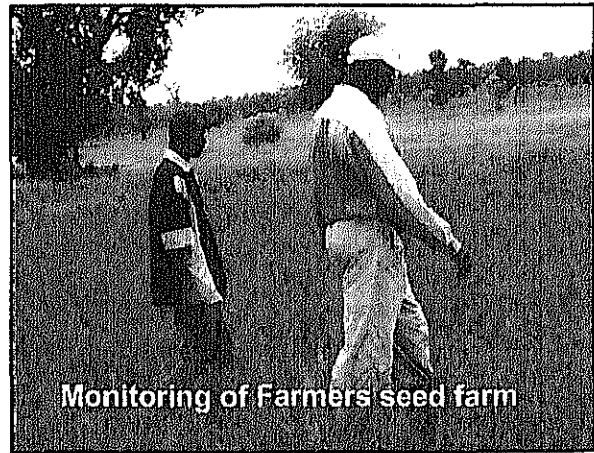
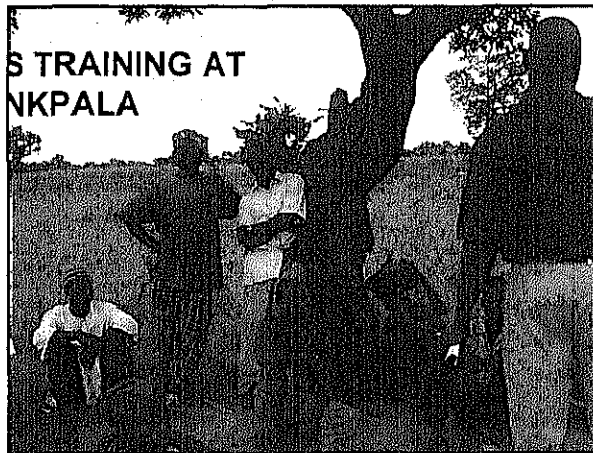
Yield of Upland Nerica's along a topo-sequence in Northern Ghana

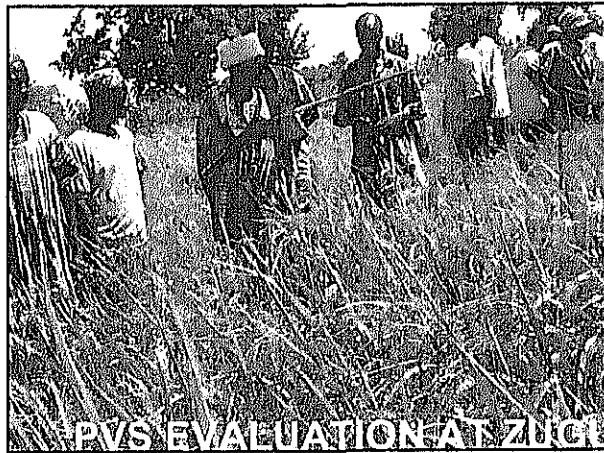
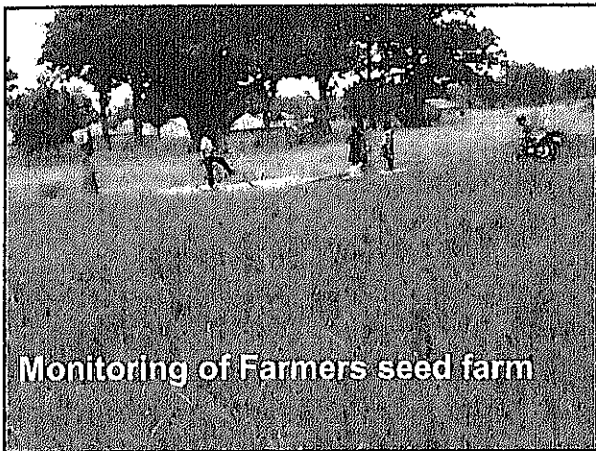
| Ecology | Variety | | | | | | | | Grand Mean |
|--------------|----------|----------|----------|----------|----------|----------|----------|-------|------------|
| | Nerica 1 | Nerica 2 | Nerica 3 | Nerica 4 | Nerica 5 | Nerica 6 | Nerica 7 | D2170 | |
| Lowland | 1103 | 1021 | 1084 | 1653 | 682 | 816 | 1460 | 3523 | 1418 |
| Hydromorphic | 1792 | 1627 | 1324 | 1291 | 1799 | 1740 | 1234 | 2794 | 1700 |
| Upland | 3092 | 2685 | 2921 | 3181 | 1916 | 3899 | 3350 | 823 | 2734 |
| Mean | 1996 | 1778 | 1778 | 2041 | 1467 | 2152 | 2015 | 2290 | 1950 |

Yield of Upland Nerica along a toposequence



Productivity of upland Nerica is highest on the upland.



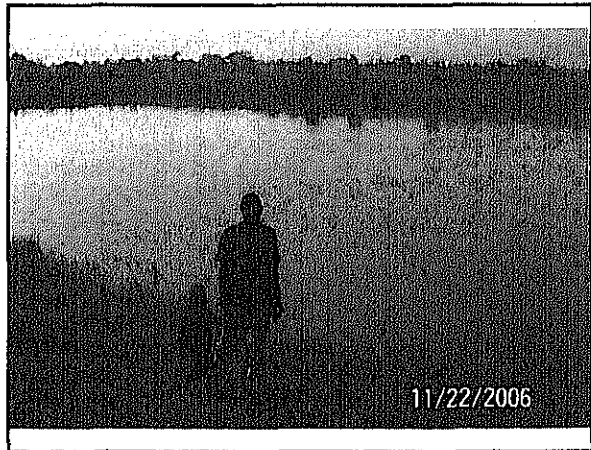
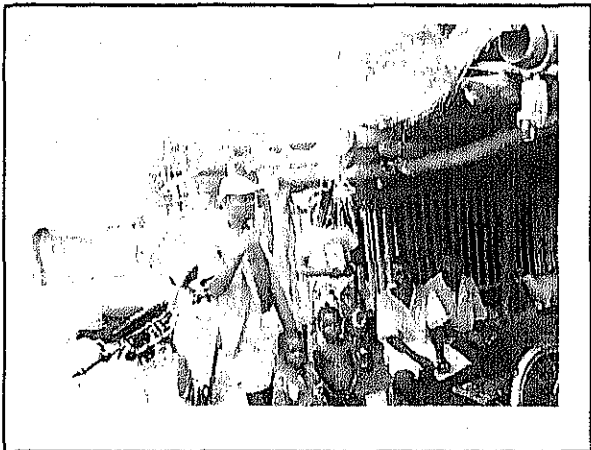
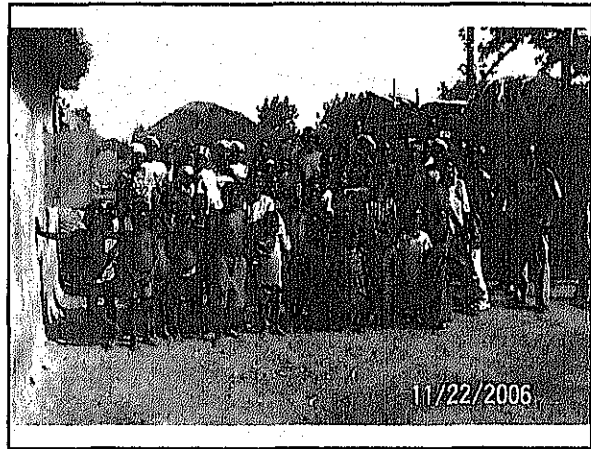


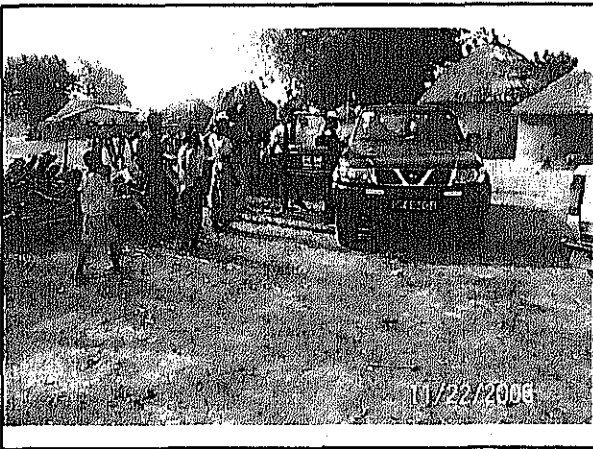
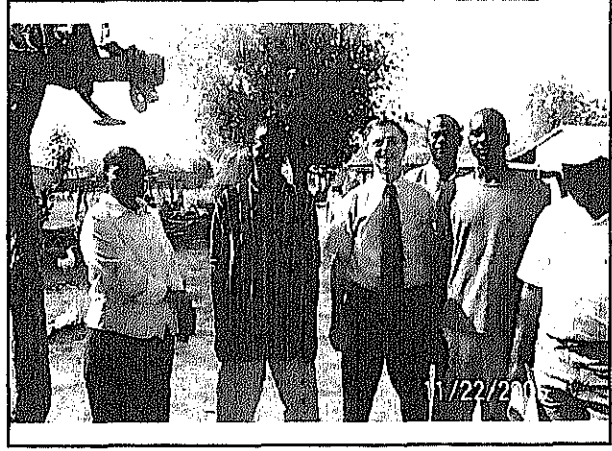
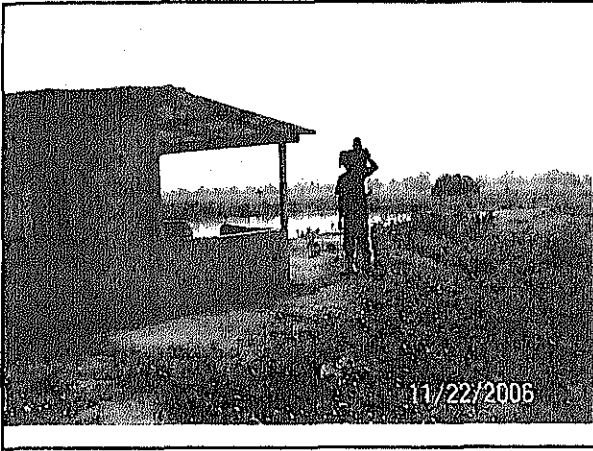
JAICAF ON FARM TRIALS AND
SOCIO-ECONOMIC STUDIES
N/R 2005-6

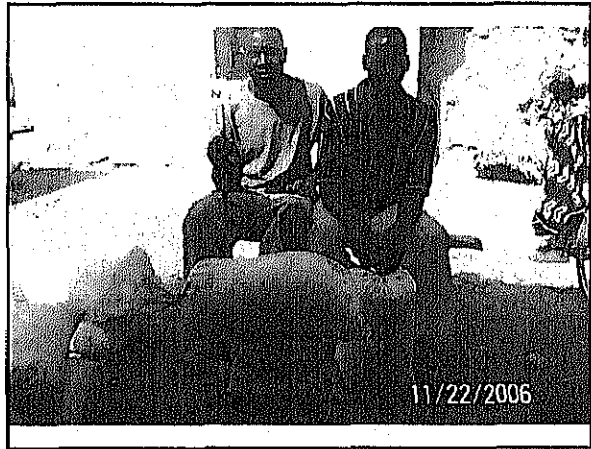
FARMER'S EXPERIENCES

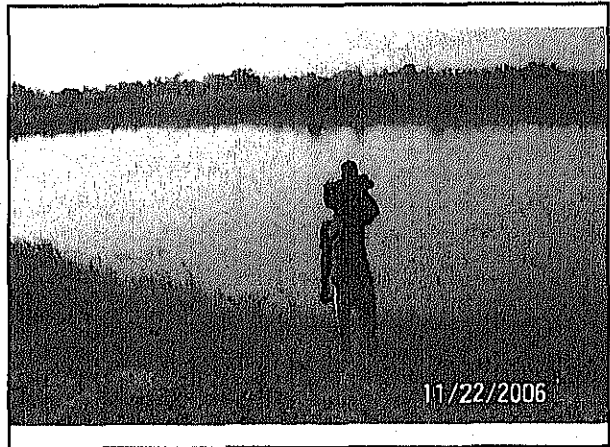
YAMALI SHAIBU(43)

GOLINGA NORTHERN REGION GHANA









CLOSING REMARKS (JAICAF)

Closing Remarks

Dr. Chukichi KANEDA
Technical Advisor, JAICAF

Ladies and gentlemen,

At the closing of the 3-day Seminar on NERICA Dissemination in Africa 2006, let me appreciate your participation to this seminar from different countries and organizations, and your discussions to better understand NERICA, to commonly own information, and to strengthen international relationship for promoting dissemination of NERICA, as it is the object of this seminar.

However, I feel it my regret that the speed of compilation of knowledge and information, especially raw data, which should be collected in the fields of NERICA cultivation, is quite slow. Reports from countries are mostly just stories without data to be used for further advancement of technologies of cultivating and processing NERICA. Yield data without analysis of yield components, or without detailed information on growing conditions can be said as just numerals obtained by trial and error. From those numerals, we cannot induce useful information for improving the level of yields. By checking yield components, we can find what are the weak points of the tested variety under that growing condition. Number of tillers were too small ? Or number of grains per panicle should be higher ? Or percentage of filled grains should be increased ? etc. And then, we can think out what kind of countermeasures should be taken, in order to improve the weak points ? Such kind of effort must be necessary, if you wish to contribute to food security of your country, or to the welfare of your people. In this meaning, the presentations by Dr. Sokei and Mr. Tsuboi are very good material for studying the know-how, stated above. I sincerely hope that we can bring more informative data when we come together to this seminar next time.

I have another question. That is related to PVS, in which farmers are expected to contribute for decision in which breeding lines are to be selected as varieties. But, for me it seems that, at present, rice scientists and technicians are doing nothing, just watching process of selection by farmers. I dare say like this, because I have never heard of, or seen, any data added in the process, or the results of farmers' selection. It is already nearly ten years since PVS started, and for the first time, a small pamphlet

of the passport data for NERICA 1 to 8 was published. Perhaps, the number of copies published may be limited, because even Mr. Tsuboi did not know this pamphlet. What about for other varieties ? If not official passport data, shouldn't we have data describing characteristics of NERICA 9 to 18 ? Different countries can report results of observing characteristics of those varieties, and then, we may realize the different reactions of varieties under different growing conditions. That kind of information will be quite useful to understand characteristics of NERICA varieties. In this point, I expect the African Rice Center to exhibit the leadership, upon its own endeavor to work properly.

In discussions, some participants expressed their anxious feeling about growing upland rice under irrigated conditions. Not a few people consider that upland rice should not be grown in water. They are not correct. Rice is quite different from ordinary upland crops such as maize and sorghum. Our cultivated rice originated not from wild rice growing in forests or mountainsides, but ancestral wild species growing in marshy lands. Present upland rice varieties can be said to have evolved to be more adapted to dry conditions than lowland rice varieties. But they perform better when they are grown in wetlands, if not flooded for very long time. Therefore, seed multiplication of upland rice varieties in irrigated field is quite reasonable and more profitable than in the upland conditions. Please examine the data of NERICA trial conducted in Ghana in 2004. As I told you in my comments on the first day, you can check the data from the website of JAICAF. And you had better try it by yourself, and see how it will come out.

In the discussion of this morning on the future dissemination of NERICA, the chair, Dr. Ikeda, proposed to pick-up constraints and difficulties related to NERICA. The first concern mentioned was about the reliability to seed source of NERICA varieties, characteristics of which are expressed differently depending on countries. This is a serious issue and WARDA breeders need to explore the situation with best of their ability. Other traits discussed were threshability, ability for weed suppression, and grain quality.

In the last session, on Collaboration with International Organizations for NERICA Dissemination, we would like to express our thanks to each of speakers from ARI, FARA and FAO.

CLOSING REMARKS (WARDA)

Closing Ceremony

Lawrence Narteh
ROCARIZ Coordinator
WARDA Headquarters

JICAWARDA Joint Seminar on NERICA Dissemination
GIMPA, Accra,
8th Dec, 2006

Objectives

- Evaluation of NERICA dissemination trends
- Share experiences across countries
- Evaluate the challenges
- Agree on the way forward

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Participation

- Benin
- Burkina Faso
- Gambia
- Ghana
- Guinea
- Kenya
- Malawi

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Participation (contd)

- Mali
- Madagascar
- Sierra Leone
- Nigeria
- Tanzania
- Senegal
- Uganda
- WARDA/JICA Scientists

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Methodology

- PVS
- Complementary Technologies
Seeding depth, fertilization, basic parameters (JICA)
- Basic measurable parameters (Dr Tsuboi).
- International Cooperation (ARI...)

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Major Thrusts

- Trends on seed availability improving
- PVS is necessary but not sufficient
- Different countries are at different levels of appreciation of the varieties

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Examples

- Guinea
 - NERICA3>NERICA 4>NERICA1
- Kenya
 - NERICA 10 and NERICA 11
- Madagascar
 - NERICA 17 and NERICA 18
- Ghana
 - Tox 3373 and IDSA 85

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Examples

Uganda:

- 17bn U Sh= US\$ 9m
- NERICA 10, 14,15,16, 18 and grain colour
- WAB 1159-2-12-11-6-9-1-2 and Diopis
 - Challenge to Entomologists
- Partnerships
- Weed control and drought
- RYMV

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Examples

- Sierra Leone and Nigeria
 - Comforting zone
- Sierra Leone want lowland NERICAs

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Examples

- Senegal
 - Water use efficiency
- Tanzania
 - Upland/ Lowland challenge (where to concentrate)

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Examples

- Complementary Technologies
 - Seeding depth data available
 - Fertilization rates and effects available
 - Biology/meiosis, etc presented

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Constraints Noted

- Kenya
 - Cold stress
 - Striga sp. as weed
 - Fertility
 - Acceptability of NERICA 10 and 11

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Constraints (contd)

- Malawi
 - Termites
 - Drought
 - Pest/diseases
 - Fe toxicity
 - Weeds

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Constraints

- Gambia
 - Threshing
- Burkina
Financing

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Challenges

- Benin/Kenya:
 - Involvement of the Private Sector
 - Open pollinated vrs. hybrids?
- Burkina
 - Consumer Preferences?

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Challenges

- WARDA
- Seed purity vrs. factors affecting segregation (awns)
- Training
- Varietal release mechanisms
- Marketing
- Seed vis-a vis the Asian Green Revolution
- Lowland rice ecologies

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Future Perspectives

- ARI Baseline studies? When data available
- Gender Sensitivity
- Seed training Programmes should discuss PVS vrs. varietal release
- NERICA Book for Children
(Other languages: Swahili, Spanish, Hausa etc)

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Future Perspectives

- HIV/AIDS?
- Seed systems:
Private sector vrs. CBSS

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Some Announcements

- CCER
- EPMR
- CORAF Network on Seed and Post-Harvest
- Analytical Framework for Seed Systems
- West Africa Regional Seed Industry Alliance
- Bill Gates Foundation/Rockefeller on Seed?

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8th Dec. 2006

Thank you list

- Presenters
- Farmers
- Chairmen and co Chairmen
- Administrative group
- Food, room services, drivers
- Interpreters
- JICA (Tokyo and Accra)
- JAICAF/WRDA/ARI

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8th Dec. 2006

Going home

- Drivers/pilots will have patience to drive well and be united with family
- Take a rest when you think it necessary

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Conclusion

- There is more to come:
- Let everybody get the NERICA feeling
- On this note: Wish you God's Speed.....

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GIMPA, Accra,
8th Dec. 2006

Closure

- JAICAF/JICA/WARDA Joint seminar on NERICA Dissemination in Africa officially closed.

Accra: 8th December, 2006

JICA/WARDA Joint Seminar on NERICA Dissemination
GIMPA, Accra,
8th Dec. 2006

PARTICIPANTS' LIST

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(GUESTS)

| | NAME | COUNTRY OF | ORGANISATION | TITLE |
|----|-------------------------------|------------|--|--|
| 1 | Mr. Emmanuel Tetteh-Blo | Ghana | Ghana Rice Inter-professional Body (GRIB) | Coordinator |
| 2 | Mr. Edouard K. Tapsoba | Ghana | Food and Agriculture Organization (FAO) | FAO representative to Ghana |
| 3 | Dr. Brahim Kebe | Ghana | Food and Agriculture Organization (FAO) | Crop Production and Protection Officer, FAO Sub-Regional Office for West |
| 4 | Ms. Boipelo Fraude | Ghana | Forum For Agricultural Research In Africa | Associate Resource Person-Research |
| 5 | Mr. Naohiko Omata | Ghana | United Nations Development Programme (UNDP) | Resource Mobilization & Private Sector |
| 6 | Ms. Yasuko Kusakari | Ghana | United Nations Development Programme (UNDP) | Rural Development |
| 7 | Ms. Marie-Aude EVEN | Ghana | Food Security and Rice Producers Organization Project (FSRPOP), France | Coordinator |
| 8 | Dr. Mehmood Ul Hassan | Ghana | International Water Management Institute | Head, IWMI West Africa |
| 9 | Ms. Yukiko Oda | Ghana | Embassy of Japan, Ghana | Economic Advisor |
| 10 | Mr. Taffesse Birbanu | Ghana | Ethiopian Embassy, Ghana | - |
| 11 | Mr. Michael Abu-Sakara Foster | Ghana | SASAKAWA Africa Association | - |
| 12 | Dr. K.G. Ofori-Budu | Ghana | University of Ghana | Senior Research Officer in KADE |

[JAICAF SEMINAR on DEC 6]

| | NAME | COUNTRY OF | ORGANISATION | TITLE |
|----|-----------------------------|------------|--|--|
| 1 | Dr. Gylele Nurah | Ghana | Ministry of Food and Agriculture | Chief Director |
| 2 | Mr. Manu Addae | Ghana | Ministry of Food and Agriculture | Assistant Director, Directorate of Crop Services |
| 3 | Mr. Richard Twumashi-Ankrah | Ghana | Ministry of Food and Agriculture | Assistant Director, Directorate of Crop Services/ Project Coordinator, NERICA Rice Dissemination Project |
| 4 | Mr. Albert Swatson | Ghana | Ghana Irrigation Development Authority (GIDA) | Head of Rice Unit, Agronomist |
| 5 | Mr. Bana- Akutey Akpeme | Ghana | Ghana Irrigation Development Authority (GIDA) | Assistant Chief Technical Officer |
| 6 | Ms. Faustina Annobil | Ghana | Okyereko Irrigation Project | Farmer-presenter on southern Ghana |
| 7 | Dr. Hans Adu-Dapaah | Ghana | Crops Research Institute (CRI) | Chief Research Scientist |
| 8 | Dr. Kofi Dartey | Ghana | Crops Research Institute (CRI) | Breeding Scientist |
| 9 | Mr. Felix W.K. Gakpleazi | Ghana | Crops Research Institute (CRI) | Supervisor |
| 10 | Mr. Bari Modibo | Ghana | | Farmer-presenter on central Ghana, Bibiani, Western Region |
| 11 | Dr. A. B. Salifu | Ghana | Savanna Agricultural Research Institute (SARI) | Director |
| 12 | Dr. Wilson Dooobe | Ghana | Savanna Agricultural Research Institute (SARI) | Rice Research section Coordinator |
| 13 | Mr. Inusaa I. Y. Baba | Ghana | Savanna Agricultural Research Institute (SARI) | Research Scientist, Irrigation |
| 14 | Mr. Yamali Shaibu | Ghana | | Farmer-presenter on northern Ghana, Northern Region |
| 15 | Mr. Adongo Sylvester | Ghana | Ministry of Food and Agriculture | Regional Director, Northern Region |
| 16 | Mr. Iddris Mustapha | Ghana | Ministry of Food and Agriculture | Extension Agent, Tamale District |
| 17 | Dr. Chris Gordon | Ghana | University of Ghana | Professor, Department of Zoology/Volta Basin Research Project |
| 18 | Dr. Ahmed Addo | Ghana | Kwame Nkrumah University of Science and Technology (KNUST) | Lecturer |
| 19 | Mr. Al-Hajji Baba Majeed | Ghana | JAICAF Project in Northern Region | Coordinator |
| 20 | Dr. F.O. Anno-Nyako | Ghana | CSIR Secretariat | Technical Specialist |
| 21 | Mr. Yasumasa Maeda | Japan | Ministry of Agriculture, Forestry and Fisheries of Japan | Assistant Director, International Cooperation Division |
| 22 | Dr. Tsutomu Takane | Japan | Institute of Developing Economies, Japan | Assistant Director, African Studies |
| 23 | Dr. Katsushige Nakasone | Japan | Tokyo University of Agriculture | Research Assistant, Department of International Agricultural Development |
| 24 | Mr. Masahiro Yoneyama | Japan | JAICAF | Director, Second Operations |
| 25 | Mr. Katsuyuki Yamamoto | Japan | JAICAF | Assistant Director, Second Operations Department |

[JAICAF/WARDA/JICA SEMINAR on DEC 8-9]

| | NAME | COUNTRY OF | ORGANISATION | TITLE |
|----|------------------------|--------------|--|--|
| 1 | Dr. Ryoichi IKEDA | Benin | WARDA (Headquarters) | JICA expert (Seed multiplication) |
| 2 | Dr. Yoshimi SOKEI | Benin | WARDA (Headquarters) | JICA expert (Agronomy) |
| 3 | Dr. Inussa AKINTAYO | Benin | WARDA (Headquarters) | Coordinator, African Rice Initiative |
| 4 | Dr. Lawrence NARTEH | Benin | WARDA (Headquarters) | Coordinator, RICARIZ |
| 5 | Mr. Antonin ALAVO | Benin | Ministry of Agriculture, Livestock Farming and Fisheries | Coordinator of Agricultural Development Assistance Program |
| 6 | Mr. Paul ASSIGBE | Benin | Ministry of Agriculture, Livestock Farming and Fisheries | NERICA Project National Coordinator |
| 7 | Mr. Cyraique AKAKPO | Benin | Ministry of Agriculture, Livestock Farming and Fisheries | Rice Program |
| 8 | Mr. Desire AGOUNDOTE | Benin | Ministry of Agriculture, Livestock Farming and Fisheries | |
| 9 | Mr. Narcisse DJEGUI | Benin | National Institute of Agricultural Research of Benin (INRAB) | Director General |
| 10 | Mr. Mellon B. GLELE | Benin | National Institute of Agricultural Research of Benin (INRAB) | Researcher |
| 11 | Mr. Kokou AHOUANTON | Benin | National Institute of Agricultural Research of Benin (INRAB) | Agricultural Engineer, Rice Program |
| 12 | Dr. Youssouf DEMBELE | Burkina Faso | Institut de l'Environnement et Recherches Agricoles (INERA) | Chef du Programme Riz INERA |
| 13 | Dr. Dona DAKOUO | Burkina Faso | Institut de l'Environnement et Recherches Agricoles (INERA) | Coordinateur du Projet INERA/WARDA pour NERICA |
| 14 | Mr. Noriyuki NISHIYAMA | Burkina Faso | JICA expert | |
| 15 | Mr. Youssouf OUATTARA | Burkina Faso | Ministere de l'Agriculture, de l'Hydraulique et des Ressources Halieutiques, la Direction Generale des Productions Vegetales | Coordinateur du Projet Riz Pluvial |

| | | | | |
|----|-------------------------------------|--------------|---|---|
| 16 | Mr. Emmanuel SIAMBO | Burkina Faso | Ministère de l'Agriculture, de l'Hydraulique et des Ressources Halieutiques, Direction de la Vulgarisation et Recherche Développement | Ingenieur Agronome |
| 17 | Mr Youssouf TRAORE | Burkina Faso | Ministère de l'Agriculture, de l'Hydraulique et des Ressources Halieutiques, Direction des Etudes et de la Planification | Charge d'Etude |
| 18 | Mr. Joseph N. OUEDAOGO | Burkina Faso | Ministère de l'Agriculture, de l'Hydraulique et des Ressources Halieutiques, la Direction Générale des Productions Vegetales | Chef du Projet de Developpement du Secteur semenciel |
| 19 | Mr. Hiroshi Murakami | Ghana | JICA Ghana Office | Resident Representative |
| 20 | Mr. Masato Kumagai | Ghana | JICA Ghana Office | Deputy Resident Representative |
| 21 | Dr. Katsuya Kuje | Ghana | JICA Ghana Office | Assistant Resident Representative |
| 22 | Mr. Masakatsu Okumoto | Ghana | JICA Ghana Office | Assistant Resident Representative |
| 23 | Ms. Akiko Tatsuta | Ghana | JICA Ghana Office | Project Formulation Advisor (Agriculture) |
| 24 | Mr. Konian Samson | Ghana | JICA Ghana Office | Program Officer (Agriculture) |
| 25 | Ms. Aya Shimada | Ghana | JICA Ghana Office | Intern |
| 26 | Mr. Aboubacar CAMARA | Guinea | Bureau Central des Etudes et de la Planification Agricole(BCEPA), Ministère de l'Agriculture et de l'Elevage | Charge d'Etude Division Sulvi Evaluation |
| 27 | Mr. Famol BEAVOGUI | Guinea | Centre de Recherche Agronomique de Bordo - Institut de Recherche Agronomique de Guinée | Scientific Coordinator |
| 28 | Dr. Takashi NANYA | Guinea | JICA expert | |
| 29 | Mr. Aty CONDE | Guinea | Service National de la Promotion Rurale et de la Vulgarisation (SNPRV) | Director Genegal |
| 30 | Dr. Sidafa CONDE | Guinea | Service National de la Promotion Rurale et de la Vulgarisation (SNPRV) | Chef de Division Recherche et Developpement |
| 31 | Mr. El Mody Sidy DIALLO | Guinea | Service National de la Promotion Rurale et de la Vulgarisation (SNPRV) | Coordinateur National of SG 2001 Guinée |
| 32 | Dr. Chukichi Kaneda | Japan | JAICAF | Technical Advisor |
| 33 | Mr. Makoto KITANAKA | Japan | JICA Headquarters | Group Director of Africa, Rural Development Dept. |
| 34 | Mr. Mitsutaka UCHIJIMA | Japan | JICA Headquarters | Project Management Officer, Central and West Africa Team, Rural Development Dept. |
| 35 | Dr. Daigo MAKIHARA | Kenya | AICAD | JICA expert |
| 36 | Mr. Patrick WAKHU | Kenya | AICAD | Assistant Research and Development Director |
| 37 | Mr. Jiddah CHOKE | Kenya | JICA Kenya Office | Agriculture and Rural Development Consultant |
| 38 | Mr. Washington KOUKO | Kenya | Kenya Agriculture Research Institute (KARI) | Director |
| 39 | Mr. Pierre Randrianarivony BASOLOFO | Madagascar | FOFIFA (Centre National de la Recherche Appliquée au Developpement Rural) | Researcher of Rice Research Department |
| 40 | Mr. Vincent MKANDAWIRE | Malawi | JICA Malawi Office | Aid Coordinator (Agriculture sector) |
| 41 | Mr. Wiseman Anyelwiska KANYIKA | Malawi | Lifumu Rice Research Station | Assistant Chief |
| 42 | Mr. C.J.J. Imani | Malawi | Lifumu Rice Research Station | Researcher In Rice Breeding |
| 43 | Mr. J. Masangwa | Malawi | Lifumu Rice Research Station | Plant Pathologist |
| 44 | Dr. Yacouba DOUMBIA | Mali | Centre Régional de Recherche Agronomique Sikasso, Institut D'Economie Rurale (CRRASikasso) Institut D'Economie Rurale (IER) | ARI Coordinator |
| 45 | Mr. Fousseeyni Cisse | Mali | Centre Régional de Recherche Agronomique Sikasso, Institut D'Economie Rurale (CRRASikasso) Institut D'Economie Rurale (IER) | Breeder |
| 46 | Mr. Issa Enafoghe | Nigeria | Federal Agricultural Coordination Unit | |
| 47 | Mr. Mark Nwoye | Nigeria | National Cereals Research Institute | |
| 48 | Dr. Karim Traore | Senegal | WARDA (Saint Louis) | Breeder |
| 49 | Mr. Mohamed s. MANSARAY | Sierra Leone | Rokupr Rice Reserch Station | Chief |
| 50 | Dr. Junichi YAMAGUCHI | Sierra Leone | The agriculture development project in Kambia | JICA consultant |
| 51 | Dr. Jeremiah HAKI | Tanzania | Ministry of Agriculture Food Security and Cooperatives | Director of Research and Training |
| 52 | Mr. Ansumana GIBBA | The Gambia | National Agricultural Research Institute (NARI) | Head of rice component in Cereal |
| 53 | Mr. Hiromichi KANO | Uganda | JICA Uganda Office | |
| 54 | Mr. Tatsushi TSUBOI | Uganda | Namulonge Agricultural and Animal Research Institute (NAARI) | Advisor in NERICA Adoption Technology (JICA Expert) |
| 55 | Dr. George BIGIRWA | Uganda | Namulonge Agricultural and Animal Research Institute (NAARI) | Head, Cereal Programme |
| 56 | Mr. Dennis OCHOLA | Uganda | Namulonge Agricultural and Animal Research Institute (NAARI) | Research Assistant |
| 57 | Mr. Charles SEMBATYA | Uganda | SASAKAWA-GLOBAL 2000 | Program Specialist |

