



A Quarterly Newsletter of Nepal Agricultural Research Council

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July-September 2000

NARC- Private Sector Consultation Meeting

As a part of initiatives towards developing a new NARC strategy for partnership in participatory technology development with private sectors, a National Consultation Meeting with Private Sectors was held at NARC, Khumaltar on 27 July 2000.

The meeting with the overall objectives to discuss for enhancing NARC linkages with agro-entrepreneurs and agro input-dealers was participated by about 100 research and development professionals from public and private sectors involved in Agricultural R & D; institutional heads of NARC stations, Divisions and Commodity

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NARC-ICRISAT Workshop on Chickpea IPM

A two-day workshop on "Planning Implementation of on-farm Chickpea IPM in Nepal" was organized jointly NARC and International Crops Research Institute for the Semi-Arid Tropics (ICRISAT) in Kathmandu on 6-7 September 2000.

The Workshop was participated by scientists from Nepal, India, Bangladesh and UK; representatives from Ministry of Agriculture and Cooperatives, NARC, Department of Agriculture, NGOs and farmers. At the opening Dr. William D Dar, Director General of the ICRISAT welcomed the participants and spoke about the collaborative research work on IPM of chickpea in Nepal. Mr.

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Oilseeds Varieties Released

Two oilseeds crop varieties (one Sesame and one Niger) have been officially released by Variety Release and Registration Sub-Committee under National Seed Board that met on 4 July, 2000.

SESAME

Variety: Nawalpur Khairo Til-1
Yield: 1.2 t/ha
Maturity: 85 days
Domain: Terai and inner terai (West from Siraha)

NIGER

Variety: Nawalpur Jhuse Til-1
Yield: 0.65 t/ha
Maturity: 100 days
Domain: Whole Terai and Inner Terai

The varieties are released after years of research trials at station and in farmers' field.

ISSUE HIGHLIGHTS

- NARC-Private sector Consultation meeting
- NARC-ICRISAT Workshop on Chickpea IPM
- Oilseed Crop varieties released
- Joint AICC/NARC workshop to produce Information/Extension materials
- National Winter Crops Research Workshop
- Basic Training on TV/Radio Program Production
- Soil fertility Working Group meeting
- RTCC Meeting of the Rice-Wheat Consortium
- Working Group meeting on post harvest losses in Maize
- NARC Program Budget 2057/58



Participants to the Workshop on Chickpea IPM

NARC Program Budget 2057/58(2000/001): An Analysis

Budget by heads compared with the previous year

A joint AICC/NARC workshop to produce extension information materials was held at Tribhuvan University, Kirtipur on 4-8 September 2000.

The five-day workshop was organized jointly by Agriculture Information and Communication Centre (AICC) and Nepal Agricultural Research Council (NARC) with implementation from Center for Economic Development and Administration (CEDA), TU. The program was facilitated by AREP Consultant, Dr. Paul Mundy and Mr U. Phuyal. The Workshop had the objectives to:

- Develop information materials for use by farmers, Extension, NGOs and the private sector
- Develop an improved mechanism to prepare information materials
- Train AICC and NARC staff how to develop user friendly extension materials
- Improve linkages among NARC, AICC, Ministry of Agriculture and NGOs

The Workshop was attended by 50 participants from NARC, AICC, Department of Livestock Services, Universities and NGOs. 16 Different manuscripts (in Nepali) on various agricultural topics were presented for critiques, editing, reediting, illustration and refining. Supported by editors, artists and computer operators and with the comments made by participants, the second and third drafts were presented. On the fourth day of the workshop, the materials were pre-tested in the field with farmers and final drafts were produced to be published by AICC.

The benefits of the Workshop realized were:

- The workshop mechanism was tested and refined and staff were trained in how to run it.
- The participants learned to write and edit materials in a user-friendly style and had hands-on practice in it
- It helped to increase linkages among NARC, AICC, the Ministry and NGOs.

The workshop was concluded with a special function attended by the Hon'ble Minister for Agriculture and Cooperatives Mr. Bal Deo Sharma Majgaiya. The Participants were given away certificates by the Hon'ble Minister.

A Basic Training on technique of television and Radio program production was organized by Nepal Television in association with Agricultural Information and Communication Center (AICC) from August 17-September 15, 2000 at Singha Durbar, Kathmandu.

Hon'ble Minister of State for Agriculture and Cooperatives, Mr. Bal Deo Sharma Majgaiya was the Chief Guest at both the inaugural and concluding function of the one-month training.

The training was participated by staff from NARC, DOA, DLS and other institutions under Ministry of Agriculture and Cooperatives.

Budget Head	Budget code	Budget (Rs.000)	
		2057/58	2056/57
Staff Budget	4000	132772	115193
Operational Budget	4100	153724	116562
Administrative Budget	4200	60671	39079
Capital Budget	4300	139419	101763
Total		486586	372597

Project types and budget

Project types	No. of Projects	Operational Budget (Rs. 000)
Research	391	58659
Outreach	76	15609
Production	44	24236
Management	68	47776
Farmers training	2	1002
Others	17	6442
Total	598	153724

Donor-wise Projects and Budget

Donor	No. of Projects	Operational Budget (Rs.000)
NARC/HMG	107	14506
KR II	100	26311
AREP	298	81396
HARP	86	29553
HLFFDP	7	1958
Total	598	153724

Sector-wise Project and Budget

Sector Projects	No. of (Rs.000)	Budget	Percentage
Crop	257	49243	32.03
Horticulture	86	10529	6.85
Livestock	105	24655	16.04
Fishery	42	8977	5.84
Others	108	60320	39.24
Total	598	153724	100

Commodity-wise Projects and Budget

Commodity	No. of Projects	Budget (Rs.000)	Percentage
Rice	60	10441	6.79
Maize	27	4233	2.75
Wheat	28	5942	3.87
Root & Tubers	12	1820	1.18
Other food crops	12	1960	1.28
Multiple crops	54	17371	10.65
Oilseeds	21	2783	1.81
Grain Legumes	29	4213	2.74
Sugarcane	10	1574	1.03
Stimulants	9	863	0.56
Fibres	7	863	0.56
Spices	6	528	0.34
Vegetables	37	4858	3.16
Fruits	31	3323	2.16
Bovine	21	7297	4.75
Goat	13	2740	1.78
Sheep	4	1321	0.86
Swine	6	3729	2.43
Poultry	13	2942	1.91
Pasture and Fodder	30	4264	2.77
Other Livestock	18	2362	1.54
Fishery	42	8977	5.84
Other Commodities	16	20159	13.11
Non-commodity	92	40161	26.13
Total	598	153724	100

National Winter Crops Research Workshop

The National Winter Crops Research Workshop was held at Regional Agricultural Research Station, Parwanipur from 12-14 September 2000.

The three-day workshop was inaugurated by the Hon'ble Minister of State for Agriculture and Cooperatives, Mr. Bal Deo Sharma Majgaiya. About 150 scientists, technicians, extension workers from NARC, Department of Agriculture, HARP, CIMMYT, Agriculture Inputs Corporation and farmers participated the workshop.

In the workshop, coordinators from different winter crop research programs (Wheat, Grain Legumes, Oilseeds, Barley and sugarcane) presented reports. Other various papers on the related crop research were also presented in two divided groups followed by discussions and recommendations. The two groups were:

Group I: Varietal improvement and Plant Protection
Group II: Agronomy, Soil Science and Outreach

Synthesis of the recommendation has been presented below.

RECOMMENDATIONS

WHEAT

Technologies/Varieties for release

S.N.	Variety /Line/Acc.	Yield (kg/ha)	Days to maturity	Recommendation domain	Remarks
1.	NL 792	2724	118	Timely sown rainfed conditions for Terai, Tars and Lower valleys	Resistant to LRYR and HLB diseases, Also better in late sown irrigated condition in terai
2.	NL 769	3648	175	Mid and high hills	Resistant to yellow rust, Better for confectionary

Other Technologis

- INM-Rice-Wheat systems LAC, PAC command area, river basin of mid-hills
- 40:7.5:7.5 NPK kg/ha inorganic + 25 N kg/ha organic (Wheat) (3 t/ha) and 25:7.5:7.5 NPK kg/ha inorganic + 25 kg/ha-organic (rice) (3-4 t/ha)
- 2 kg Boron/ha Soil application in wheat for sterility management in sterility prone areas
- Optimum seeding of wheat in rainfed lowland condition for M/FW DR-Nov. 20-Dec. 5

Technologies/Varieties in pipeline

S.N.	Variety /Line/Acc.	Yield (kg/ha)	Days to maturity	Recommendation domain	Remarks
1.	BL 1887	3720	123	Timely sown irrigated conditions for Terai, Tars and Lower valleys	Resistant to leaf rust and helminth osporium leaf blight (HLB), Also better in rainfed late condition in terai
2.	BL 1923	3549	122	" "	" "

3.	BL 1905	2263	123	Timely sown rainfed conditions for Terai, Tars and Lower valleys	Slow rusting and resistant to HLB, Also better in irrigated late sown condition in terai
4.	BL 1981	2603	112	Timely sown irrigated conditions for Terai, Tars and Lower valleys	Resistant to leaf rust and HLB, Also better in timely sown irrigated and rainfed condition in terai
5.	BL 1813	3316	169	Mid and high hills	Resistant to yellow rust
6.	BL 1755	3061	167	" "	" "

Other Technologis

- Direct seeded rice (non-puddle) in lowland ecosystem without reducing to reduce the cost and does not reduce yield of rice and wheat
- Application of NPK at the rate of 80:40:30 Kg/ha is effective in minimization of HLB.

Recommendation for Quality

Based on the analysis of protein, Gluten, sedimentation value Baking characteristics following genotypes NL 842 (B), NL 788 (B), NL 861 (B), BL 1678 (B), NL 750, WK 823 (B), BL 1724 (B), NL 713 (T), BL 1473 (T), NL 297 (T), HI 1077 (K), PBW (K), PBW 343 (K), WH542 (K), UP 2338 (K) and CNT 1093 are better quality for bread making.

Suggestions

- National, Wheat based multidisciplinary team of Pathologist, Breeder, Agronomist, and Soil scientist for foliar blight control
- Regional multidisciplinary team of Soil scientist, Breeder, Agronomist and Pathologist, for sterility control

LENTIL

Technologies/Varieties for release

S.N.	Variety	Yield (kg/ha)	Recommendation domain	Remarks
1.	ILL 2508	1626 Terai	Rice-Lentil, Terai and Inner	BGM+Wilt tolerant
2.	ILL 4402	1612	" " "	" "

Technologies/Varieties in pipeline

1.	ILL 7163	1012	Rice-Lentil, Terai and Inner Terai	BGM+Wilt tolerant
2.	ILL 6819	1014	" "	" "
3.	LN 00136	1028	" "	" "
4.	Jutpani	1823	Inner Terai and mid hills of mid western region	

Other Technologies

- Suitable ratio of seed moisture of lentil and toria is 30:2 or 20:6 kg/ha respectively
- Per booking of lentil seed (seed priming) over right was

found better plant stand and yield enhancement in rice/lentil system in mid western Terai

Suggestions

- National multidisciplinary team for wilt, root rot, BGM, nutrient and variety

CHICKPEA

Technologies/Varieties for release

S.N.	Variety /Line/Acc.	Yield (kg/ha)	Recommendation domain	Remarks
1.	ICCX840508-36	2130	Rice-Chickpea, Terai and inner terai	BGM+Wilt Tolerant
2.	ICCX840508-21	2050	" "	" "
3.	Dhanush	1450	" "	" "

Technologies/Varieties in pipeline

1.	ICCX840508-33	1751	Rice-Chickpea, Terai and Inner Terai	" "
2.	ICCX840508-41	1793	" "	" "
3.	ICCL 87322	1872	" "	" "
4.	Avrodhi	1680	" "	" "

Suggestions

- National multidisciplinary team for wilt, root rot, BGM, nutrient and variety

Hill Crop

BARLEY

Technologies/Varieties for release

S.N.	Variety /Line/Acc.	Yield (kg/ha)	Recommendation domain	Remarks
1.	NB 1003-37/1034	3550	Mid Hills (Maize/Millet-early Barley or Maize Barley)	Feed purpose, 6 row, hulled
2.	NB 1003-37/903	3224	High Hills (Rice-Barley, Maize-Barley)	6 row hulled

Technologies/Varieties in pipeline

1.	ACC#1574	3268	Mid Hills, Maize/Millet (early)-Barley Or Maize-Barley	"
2.	B 86099-2-1-OK	3096	" "	"
3.	X Veola- 2	3434	High Hill and Mid Hill (Maize Barley)	"
4.	NB 1003-112	4100	Maize/millet-Barley, Rice-Barley)	"

Suggestions

- Multidisciplinary team of Breeder, Pathologist and Agronomist for food barley (naked) in High hills
- Market survey, variety development, facility for quality test for Malt barley (Industrial purpose)

SUGARCANE

Technologies/Varieties for release

S.N.	Variety /Line/Acc.	Yield (kg/ha)	Recommendation domain	Remarks
1.	BO 128	92	Terai (Irrigated, Rainfed, Lowland)	
2.	CoSe 92423	95	Terai, Irrigated	Medium to late
3.	CoSe 92430	81	Terai, Irrigated and upland rainfed	"

Other Technologists

- 90 cm row spacing in spring/autumn planting obtained higher yield against 75 cm row spacing
- Autumn planting is good for higher yield and sucrose content
- Jitpur-2 should not be encouraged due to susceptibility to red-rot

Technologies/Varieties in pipeline

S.N.	Variety /Line/Acc.	Yield (kg/ha)	Recommendation domain	Remarks
1.	CoSe 95422	81	Terai, Irrigated	Early
2.	BO 130	75	"	"
3.	CoS 89218	70	"	"
4.	CoP 93812	80	"	Medium-late

Other Technologists

- Perforated jet and furrow irrigation method suitable for water scarce area
- Light irrigation at 7 and 10 days interval during summer season for maximum cane and juice quality
- Trichogramma chilois @50000/ha six times at weekly interval from 45 DAP+light earthing up to control borer and other insect

Suggestions

- Regional (Kapilvastu, Nawalparasi, Dhanusha) laboratory facility for Jaggery production (variety testing)

OILSEED CROPS

Technologies/Varieties for release

S.N.	Variety /Line/Acc.	Yield (kg/ha)	Recommendation domain	Remarks
Toria				
1.	M 27	1100	Central terai	
2.	PT 30	1150	"	
3.	Surkhet Tori	722	Surkhet valley	Early

Mustard

S.N.	Variety /Line/Acc.	Yield (kg/ha)	Recommendation domain	Remarks
1.	Vardan	500	Terai	Bold seeded, tolerant to <i>Alternaria</i>

Technologies/Varieties in pipeline

Toria

1.	ICT-8257	855	Mid-hill (Rainfed)
2.	ICT-9137	811	Terai (Rainfed)

Suggestions

- Regional (Surkhet, Nepalgunj, Chitwan, Sarlahi) multidisciplinary team of Soil scientist, Pathologis, Entomologist, Breeder and Agronomist for against the low yield due to nutrient, disease,, insect, lack of pollinator and variety

Sarson

S.N.	Variety /Line/Acc.	Yield (kg/ha)	Recommendation domain	Remarks
1.	ECS-9138-1	500	Central terai (Rainfed)	
2.	ECS9108	500		

Mustard

1.	ICJ-96126	831	Central terai	Bold seeded, tolerant to <i>Alternaria</i>
2.	Pusa Barani	700	Terai	"

Other Technologis

- Bees as pollinator for better yield of Toria
- 20 t/ha OM+60:40:20 NPK kg/ha increased Toria Yield against farmers practice

General Recommendations

- More thrust on rainfed farming in terai specially in Mid/Far west and in river basin and lower elevation on mid-hills
- Production of hybrid seeds for irrigated areas (MOU with private agencies)
- Fallow land utilization/water harvesting
- Industrial crops in different regions (Tea, Cardamom, Beetle nut, Jute in Eastern Dev Region; Sugarcane Oilseed, Citrus, Tobacco in Central Dev. Region; Coffee, Ginger, Citrus, Sunflower, Bee, Silk and Mushroom in Western Region; Ginger, Sunflower, Marcela, Safron mentha, Beans in Mid and Far Western Dev. Region
- Multidisciplinary approach, Permanent technical panel, Norms for Collaborative research
- NARC should be strengthened with seed processing facilities and seed should sold from the center and station properly packed and tagged
- Seed multiplication program to sufficient for OR site should be implemented
- Training, Extension workshop for dissemination of technology
- Large scale front line testing at OR site should be done for seed source and demonstration effect

Soil Fertility Working Group Meeting

In order to better focus the activities of Hill Maize Research Project HMRP within the broad theme of soil fertility, the working group meeting on soil fertility in maize based systems in the hills of Nepal was organized by NARC and CIMMYT at Lumle on 16-18 August 2000.

The specific objectives of the meeting were:

- To better define the researchable problems related to soil fertility in maize based systems in the hills and develop a viable research program to address these problems.
- To review past and on-going research results related to soil fertility in the hills, to ensure that HMRP's research builds on past results and avoids repeating work that has already been done.
- For HMRP scientists to meet others actively involved in this area of research so as to avoid duplication in efforts and engender collaboration.
- To review and agree upon research approaches/methodologies.
- To identify research "gaps", agree upon priority research projects to be implemented and develop a strategy for implementing soil fertility related research and extension with support under HMRP.

In the meeting, different invited technical papers on existing problems, previous research results from within Nepal and Africa, and issues of disseminating soil fertility recommendations were presented followed by group discussions. Based on the information in the invited papers and from the ideas developed in small group discussions, the meeting made various recommendations about research for HMRP; dissemination of soil fertility technologies; policies; collaboration in soil fertility research and dissemination; new tools in the research process etc.

(Details of the recommendations and the presented papers can be found in publication from NARC and CIMMYT)

Talk Programs Held at NARC

- "Organization of SEED Production in India" by Dr. Rajendra Kumar, Senior Scientist, In-Charge, Central Seed Testing Laboratory, Division of Seed Science and Technology, IARI, New Delhi, India. On 29 September, 2000.
- "Options for Primary Cultivation in Small Farms" by Prof. Rafiqul Islam Sarker, Professor of Farm Power & Machinery, BAU, Mymensingh, Bangladesh. On 25 August 2000.
- "Natural Resource Management and Cropping System Research in ICAR" by Dr. P.C. Bhatia, Asst. Director General (Agronomy), ICAR and Dr. R.L. Yadava, Project Director, Directorate for Cropping System Research, Modipuram, Meerut, India. On 18 July 2000.

Working Group Meeting on Post-harvest Losses in Maize

Post-harvest loss of maize has been identified in recent RRA surveys as one of the major concerns of farmers in the hills of Nepal. With the exception of limited areas usually in valley bottoms, maize is grown during the summer months in the hills and is harvested before the end of the monsoon rains. Under these conditions, it is difficult for farmers to dry the harvested maize to a safe level therefore the crop is usually predisposed to losses from insects and diseases. Developing and disseminating recommendations to reduce post harvest losses has been selected as a priority area within the Hill Maize Research Project (HMRP). Both globally and within Nepal there has been substantial research on controlling post-harvest losses of maize.

With the view to build upon existing information and establish a strategy for addressing the post-harvest problem within the HMRP and National Maize Research Program, the Working Group meeting was organized by the HMRP (NARC/CIMMYT/SDC) at Khumaltar on 25-27 September 2000.

The purpose of this working group meeting was to build upon existing information and establish a strategy for addressing the post-harvest problem within the HMRP and the National Maize Research Program.

Annual Review and Planning Meeting on Potato Research

Annual Review and Planning Meeting of the Potato Research Program was held at Khumaltar on 21-22 August 2000.

In the meeting potato research and extension works accomplished were reviewed through presentation from respective project leaders. Presentations of other different working papers and discussions were also held for new strategies on potato research and extension in Nepal.

The meeting was participated by researchers and extension workers on potato from NARC and Department of Agriculture. Oscar A. Hidalgo, Project leader of CIP/

The specific objectives of the meeting were:

- To review past and on-going research related to post-harvest losses of maize.
- To define priority areas for research that will address problems of post-harvest losses.
- To review new research approaches and methodologies.
- To develop a strategy for implementing research directed towards reducing post-harvest losses and extending promising technologies.
- Develop a plan for improving the dissemination of existing post-harvest technologies.

Participants came from NARC, the DOA and CIMMYT. Dr. David Bergvinson, maize entomologist CIMMYT Mexico, who has extensive experience in research related to post-harvest insects participated in the meeting to provide his global perspective to the deliberations and to share results from CIMMYT's post-harvest research program.

In the program eleven different invited papers were presented followed by small group discussions and a final plenary discussion. Various recommendations with regards to research directed towards controlling post-harvest losses made at the conclusion.

SDC also participated the meeting. The meeting was inaugurated with a function chaired by Dhruva Joshy, Executive Director, NARC.

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Dhruva Joshy, Executive Director of NARC, giving the keynote address said an integrated approach by the relevant public sector research and extension agencies, NGOs, and private sector needs to be considered for moving towards commercialization of chickpea and other legumes cultivation. Dr. P.C. Stevenson, NRI, UK also spoke at the moment.

In the workshop, various papers were presented followed by discussion and conclusion.

Mahindra Tractor Krishi Mela to be Held

An Agricultural Exhibition sponsored by Mahindra & Mahindra Co. Ltd. (Tractor Division) is taking place at Inrua, Sunsari from 14-21 October 2000. The Objectives of the Exhibition is to:

- Create/direct interaction between farmers and manufacturers
- Educate people from agriculture belt about the various latest technologies and techniques on agricultural development and research
- Provide knowledge about financial and technical help from the Government
- Make various latest products available in the rural area on affordable range
- Launch the products in the Mela

Nepal Agricultural Research Council (NARC) is also taking part in the Exhibition.

Brief News

SAARC Technical Committee in Agriculture (SAARC-TCA) meeting was held in Kathmandu on 4-5 July 2000.

• GIS open discussion was held at Soil Science Division, Khumaltar on 7 July, 2000.

• MOAC-NARC-NTV signed MoU on 13 July 2000 for continuation of the Daily Agricultural Program on NTV.

• Permaculture Workshop was held in Kathmandu on 4 September. Similarly, Permaculture Workshop held at Nepalgunj. Mr. B.M.S. Basnet and Ms. Shanti Bhattarai participated the workshop and presented papers.

ICRISAT Director General visited NARC

The Director General of International Crops Research Institute for the Semi-Arid Tropics (ICRISAT), Dr. William D. Dar visited NARC on 5 September 2000.

During the visit the Director General had interaction with NARC scientist, observed the Exhibit Room and also viewed video Documentary show about NARC.

TRAINING WORKSHOP/SEMINARS, STUDY & TOURS

(July - September 2000)

S.N.	Name	Position/Faculty	Subject	Duration	Country
<u>SEMINAR/WORKSHOP</u>					
1.	Mr. Dhruva Joshy	Executive Director	Workshop for Farm Level impact on Productivity of Rice-Wheat System	25-27 Sept.	India
2.	Mr D. S. Pathik	Director, Crop	Workshop for Farm Level impact on Productivity of Rice-Wheat System	25-27 Sept.	India
3.	Dr. Chandra Bahadur Karki	S-3/Patho.	First Asian onference on Plant Pathology	25-28 August.	China
4.	Mr. Ram Bahadur Maskey	S-3/Soil.	MSEC Planning Workshop	5-7 July	Thailand
5.	Mr. Naresh Singh Thakur	S-3/Socio-Eco.	MSEC Planning Workshop	5-7 July	Thailand
6.	Mr. Mahendra Jung Thapa	S-3/Food Tech.	Utilization of Natural Production in Developing Countries Trends and Needs	10-14 July	Jamica
7.	Mr. Mahesh Man Palikhe	S-3/Agron.	International Crop Science Conference	14-25 August	Germany
8.	Mr. Ram Baran Yadav	T-6/Agron.	International Crop Science Conference	14-25 August	Germany
9.	Dr. Madhav Joshi	S-3/Agron.	Impact of Agricultural Practices on Environmental Sustainability	6-13 Sept.	Japan
<u>OBSERVATION TOUR</u>					
10.	Mr. Krishna Chandra Upreti	T-5	Study Visit to India	19 June-1 July	India
11.	Mr. Hari Bahadur K.C.	T-5	Study Visit to India	19 June-1 July	India
12.	Mr. Duryodhan Chaudhary	T-5	Study Visit to India	19 June-1 July	India
13.	Mr. Ashok Mudvari	S-3/Agron.	All India Wheat Meeting	27-30 August	India
14.	Mr. Babu Ram Thapa	S-3/Agron.	All India Wheat Meeting	27-30 August	India
15.	Mr. Sanjaya Kumar Gami	S-3/Soil	All India Wheat Meeting	27-30 August	India
<u>TRAINING</u>					
16.	Mr. Nuche Lal Tamrakar	S-3/Livestock	Feeding Management Nutritional requirement of Goats (Stallfed)	7-12 August	India
17.	Mr. Krishna Adhikari	S-3/Agron.	Advance Maize Improvement Course	14 August-15 Sept.	Mexico
18.	Mr. Raj Man Mulmi	T-6/Fish	CIRG	16-30 August	India
17.	Ms. Renuka Shrestha	S-3/Agron.	Lantil and Lathyrus	16 August-30 Sept.	Australia
18.	Mrs. Jinu Shrestha	T-5/Engg.	Agri-Engineering	21 August- 10 months	Netherland
17.	Mr. Laxman Singh Karki	S-3/Pathol.	Advanced Course on Wheat Pathology Genetics and Breeding for resistance	25-28 August	
18.	Gopal Prasad Shivakoti	S-3/Ento.	Integrated Pest Management	18-20 Sept.	Pakistan
<u>STUDY</u>					
19.	Hari Kumar Prasai	T-6/Agron.	M.Sc.Ag. in Biotechnology	2 August-2yrs.	India
20.	Manoj Kumar Thakur	T-6/Agron.	M.Sc.Ag. in Development Communication	3 August-2yrs.	India
21.	Mrs. Nirmala Pandey	T-6/Livestock	M.Sc.Ag. in Livestock	20 August-2yrs.	India
22.	Mr. Krishna Bahadur Thapa	T-6/Soil	M.Sc.Ag. in Soil Science	24 August-2yrs.	India
23.	Mr. Bishnu Das Joshy	T-6/Soil	M.Sc.Ag. in Soil Science	25 August-2yrs.	India
24.	Mr. Dol Prasad Dhakal	T-6/Pathol.	M.Sc.Ag. in Pathology	20 August-13 months.	UK
25.	Ghana Shyam Malla	T-6/Agron.	M.Sc.Ag. in Environmental Science	6 Sept-2yrs.	India
26.	Mr. Niranjana Prasad Adhikari	S-3/Agron.	PhD. Study	6 Sept-2 yrs.	India
27.	Bharatendu Mishra	S-3/Agron.	PhD. Study	6 Sept-2yrs.	India
28.	Umashankar Sah	S-3/Agron.	M.Sc.Ag.	17 Sept- 2yrs.	India
29.	Devendra Gauchan	S-3/Socio-Eco.	PhD. Study	6 Sept- 2yrs.	UK
30.	Uma Sankar Pandey	T-6/Agron	B.Sc. Ag.	15 June-4 yrs.	Nepal
31.	Ram Dayal Yadav	T-6/Soil	B.Sc. Ag.	15 June-4 yrs.	Nepal

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Research Programs; key officials of MOAC, NARC, DOA and DLS.

The meeting after presentation and discussions on various issues concluded with some recommendations.

ISSUES AND RECOMMENDATIONS

- Develop confidence, mutual trust among public- private sectors
- Make inventory of technologies, activities
- Identify research needs
- Research Prioritization
- Change in perceptions, public and private sector thinking
- Develop database of private sectors institutions, their roles, activities and technology
- Identify policy and legal needs private and public Research and Development
- Develop regular mechanism for regular dialogue, meeting (from initial planning stage)
- Develop areas for collaboration e.g. hybrid seeds, poultry technology
- Make aware and communicate NARC research outcomes
- Make aware NARC strength, limitations
- Increase information flow between and among public and private sectors
- Roles of public sector extension (DOA/DLS) should be highlighted

RTCC Meeting of the Rice-Wheat Consortium

The ninth meeting of the Regional Technical Coordination Committee (RTCC) of the Rice-Wheat Consortium for the Indo-Gangetic Plains was held in Kathmandu from September 29th to October 1st, 2000.

The Executive Director of NARC, Dhruva Joshy, inaugurated the two day meeting and chaired the first session.

This committee is a forum composed of partners from the four national programs in South Asia that grow rice-wheat and includes Bangladesh, India, Nepal and Pakistan. Other members include several International centers including CIMMYT (convening center), IRRI, ICRISAT, CIP and IWMI. There are also a number of advanced institutions including Cornell University, IACR Rothamsted, CABI International, IAC Wageningen and others.

The Consortium is funded through a number of donors including the World

Bank, the Dutch, ADB, IFAD, DFID, ACIAR and others. The goal of the consortium is to provide a forum for exchange of ideas and research results related to improving the sustainability and production of the rice-wheat systems of the Indo-Gangetic Plains and mid-himalayan hills.

The consortium was recently awarded the prize of the best partnership within the Consultative Group on International Agricultural Research. This is the reward for many years of good collaboration between the various members. All can be proud to have contributed to this prestigious recognition.

The meeting was very successful and covered many topics. This information will be summarized into a logframe type document that will be used to obtain future funding support for its members. The Director Crops, Mr. Pathik and three site coordinators represented Nepal in this meeting.



Participants to the RTCC Meeting

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