

**Table A. Impact assessments and impact assessment reports of the Plant Sciences Research Programme (reports completed since the last annual report in 2004 are shown in red)**

Title and Authors	Type†	Institutions	Assessment Methods
<b>PARTICIPATORY CROP IMPROVEMENT</b>			
<b><u>Eastern India</u></b>			
<b>Impact of new upland rice varieties in Eastern India: Evidence from whole village surveys. (2005)</b> A Mottram Stand alone report (pdf file of presentation submitted to LTS)	<i>External, Ex-post</i>	CAZS-NR non-project staff member.	Mapping. Focus group discussions (FGDs). Interviews with key informants.
<b>Participatory crop improvement in Eastern India: An impact assessment. (2004)</b> DS Virk, VA Bourai, A Choudhary, M Misra & JR Witcombe PSP Annual Report for 2003.	<i>Mixed, Ex-post</i>	Sri Guru Ram Rai College, Dehradun, India. CAZS.	Field survey of 159 farmers in 2002. Report of sub-sample of 36 farmers from 150 surveyed in 2004. Financial analysis
<b>Participatory crop improvement in Eastern India: A preliminary impact assessment. (2002)</b> <b>VA Bourai, A Choudhary &amp; M Misra</b> Stand-alone report commissioned by PSP (2002). Published in 2003 PSP Annual Report (adapted and summarised by CAZS-NR).	<i>External, Ex-post</i>	Sri Guru Ram Rai College, Dehradun, India.	Field survey of 159 farmers in 2002. Financial analysis.
<b><u>Nepal</u></b>			
<b>Delivering impacts from participatory crop improvement projects in Nepal. (2004)</b> KD Joshi, S Biggs, KP Devkota & S Gyawali. PSP Annual Report for 2003.	<i>Mixed, Ex-post</i>	Dr Stephen Biggs, ICIMOD. CAZS. LI-BIRD.	Examines institutional impacts by actor-oriented analysis.

†Impact assessment done by external, independent institution or consultant (External), by project scientists (Project) or by both (Mixed).

Title and Authors	Type	Institutions	Assessment Methods
<b>Participatory crop improvement in the low-altitude regions of Nepal.</b> Impact assessment working document 6.2 October 2004 JR Witcombe, KD Joshi, S Gyawali, K Devkota and A Subedi Stand-alone report CAZS and LI-BIRD.  Earlier version published as: <b>An impact assessment of participatory crop improvement in the low-altitude regions of Nepal. (2003)</b> JR Witcombe, KD Joshi, S Gyawali & A Subedi PSP Annual Report for 2002	<i>Project,</i> <i>Ex-post</i>	LI-BIRD. CAZS-NR	Over 3000 households in 34 villages in Chitwan and Nawalparasi. Interviews with key actors from other organisations. In-depth interviews. Compilation of seed distribution.
<b>An evaluation of participatory crop improvement in Nepal. (1998)</b> Matthew Lining A final report by DTZ Pieda Consulting for DFID	<i>External,</i> <i>Ex-post/</i> <i>Ex-ante</i>	External DTZ assessment.	
<b>Adoption of main season rice in Chitwan and Nawalparasi Districts of Nepal from 2001 to 2002.</b> KP Devkota, S Gyawali, A Subedi, JAD Witcombe & KD Joshi CAZS-NR Discussion Paper No. 6 (2005).	<i>Internal,</i> <i>Ex-post</i>	LI-BIRD CAZS-NR	Over 2500 households in 60 villages in Chitwan and Nawalparasi.
<b>Evolution and spread of socially responsible technical and institutional changes in a rice innovation system in Nepal</b> KD Joshi, S Biggs, D Gauchan, KP Devkota, CK Devkotat, PK Shrestha & BR Sthapit (2005).	<i>Mixed</i> <i>Ex-post</i>	CAZS-NR LI-BIRD DADO IPGRIAPO	Review of relevant documents, brainstorming with key people and authors, review of draft by independent actors
<b>Adoption and spread of rice varieties in Sarlahi and Kailali districts identified by Participatory Crop Improvement project and bred by Client Oriented Breeding.</b> KB Rawal, VR Bhatta, GR Joshi & U. Singh (2006)	<i>External,</i> <i>Ex-post</i>	SUPPORT Foundation	Household surveys and focus group discussions in selected villages of the Sarlahi and Kailali districts. Total number of households sampled was 390 in Sarlahi and 405 in Kailali.

Title and Authors	Type	Institutions	Assessment Methods
<b>Bangladesh</b>			
<b>Short duration rice varieties for the High Barind Tract of Bangladesh: the initial impact of varieties from client oriented breeding and selection in Nepal. (2004)</b> KD Joshi, A Musa, C Johansen, D Harris, KP Devkota, S Gyawali & JR Witcombe Stand alone report. Summary in Annual Report for 2004.	<i>Project, Ex-post</i>	LI-BIRD PROVA. CAZS-NR	Field surveys
<b>Assessment of the Adoption and Spread of Short Duration Rice Varieties in High Barind Tract of Bangladesh (2005)</b> DB Pandit. Stand-alone report	<i>External, Ex-post</i>	Bangladesh Agricultural Research Institute	Surveys in 8 villages in HBT.
<b>India</b>			
<b>Institutionalisation of the outputs of a participatory crop improvement project in Gujarat, India. (2004)</b> A Mondal In PSP Annual Report for 2003.	<i>Project, Ex-post</i>	ASA.	Summary of institutional uptake written by lead actor.
<b>Highly client-oriented breeding: The impact of two upland rice varieties in eastern India. (2005).</b> DS Virk, VA Bourai, A Choudhary, M Misra, A. Mottram & JR Witcombe.	<i>Project, Ex-post</i>	CAZS-NR Sri Guru Ram Rai College, Dehradun, India. GVT-East	2002- semi-structured survey of ca. 15% of the 1000 households receiving seed from the GVT. March 2004 - survey of several hundred households. October 2004 - maps and group discussions.
<b>Ghana</b>			
<b>Testing drought-tolerant plant types of upland rice in Ghana using participatory methods. (2004)</b> PQ Craufurd, A Opoku-Apau, IK Bimpong, PT Dorward & KA Marfo Compilation of Annual Report for 1999 and 2003 Final Technical Report submitted to LTS.	<i>Project, Ex-post</i>	Univ. Reading. CRI, Kumasi, Ghana. SARI, Tamale, Ghana.	Adoption studies by project staff as a project component from a survey of 2500 farmers.

Title and Authors	Type	Institutions	Assessment Methods
<b>Impact of rice participatory varietal selection (PVS) programme in Ghana. (2005)</b> BMOS Agro-consultants Ltd Stand alone report	<i>External Ex-post</i>	BMOS Agro-Consults Ltd. Uni Ghana	Survey of 125 PVS and 125 non-PVS farmers for Hohoe area; 125 PVS farmers for Tolon-Kumbungu area and 20 male and 30 female PVS farmers for Akpafu-Todzi area.
<b>REPLACING FALLOWS AFTER RICE</b>			
<b>Rainfed rabi cropping in rice fallows – Chickpea in Eastern India. (2004)</b> Centre for Arid Zone Studies, Catholic Relief Services & Gramin Vikas Trust Development Brief.	<i>Project Ex-ante</i>	CAZS-NR. GVT. CRS.	Synthesis of results from field trials.
<b>Rainfed rabi cropping in rice fallows of Nepal – Summary of impacts. (2004)</b> D Harris, N Khanal, KD Joshi & JVDK Kumar Rao PSP Annual Report for 2003.	<i>Project, Ex-post</i>	CAZS-NR. FORWARD. ICRISAT.	Questionnaire completed by nearly 400 households.
<b>Impact Assessment Study for the DFID-funded Project R7540 ‘Promotion of chickpea following rainfed rice in the Barind area of Bangladesh’. (2003)</b> AK Saha Stand-alone consultants report of 2002 Summarised in Annual Report for 2002.	<i>External, Ex-post</i>	Agricultural Research and Rural Development, Dhaka, Bangladesh.	Field surveys on adoption and impact using stratified sample on 80 farming households. Economic analysis of returns to new crops.
<b>Socioeconomic constraints and opportunities in rainfed rabi cropping in rice fallow areas of India. (2002)</b> PK Joshi, PS BIRTHAL & VA BOURAI Stand-alone report	<i>External, Ex-ante</i>	National Centre for Agricultural Economics and Policy Research, New Delhi.	Survey of over 300 farmers in 5 states of eastern India.
<b>Socioeconomic constraints and opportunities in rainfed rabi cropping in rice fallow areas in Nepal. (2002)</b> VA BOURAI, KD JOSHI & N KHANAL Stand alone report	<i>Mixed, Ex-ante</i>	Sri Guru Ram Rai College, Dehradun, India. CAZS.	About 150 farmers surveyed in 4 eastern districts of Nepal.

Title and Authors	Type	Institutions	Assessment Methods
<b>Spatial distribution and quantification of rice-fallows in South Asia – potential for legumes. (2001)</b> GV Subbarao, JVDK Kumar Rao, J Kumar, C Johansen, UK Deb, I Ahmed, MV Krishna Rao, L Venkataratnam, KR Hebbar, MVRs Sai & D Harris Published by ICRISAT	<i>Project, Ex-ante</i>	ICRISAT. National Remote Sensing Agency (NRSA).	Remote sensing, database interrogation and ground truthing.
<b>MARKER-ASSISTED SELECTION IN PEARL MILLET</b> <b>Marker-assisted selection for downy mildew resistance and drought tolerance in pearl millet. (2004)</b> CT Hash, RS Yadav, A Sharma, FR Bidinger, KM Devos, MD Gale, CJ Howarth, S Chandra, GP Cavan, R Serraj, PS Kumar, WA Breese & JR Witcombe Annual Report for 2003.	<i>Project, Ex-ante</i>	ICRISAT. JIC. CAZS-NR. IGER. HAU. TNAU.	Field surveys Government data
<b>TRANSGENICS</b> <b>Broadly based resistance to nematodes in the rice and potato crops of subsistence farmers. (2001)</b> P-L Amoussou, J Ashurst, J Bridge, J Green, M Jones, M Koyama, JW Snape & HJ Atkinson	<i>Project, Ex-ante</i>	JIC. CABI. WARDA. Univ. Leeds	Literature review of production losses from nematodes in developing countries.