Appendix 4 CPHP projects with relevance to Northern Province livelihoods

Management of insect pests, rodents, moulds (diseases), termites

_	Purpose	Ouputs	Potential relevance	Project lead institution	End date	DFID Project No
Improveme	nt in the storage and marketing qua	lity of Legumes (Phase II)				
-	To contribute to development and promotion of environmentally sustainable and safe post-harvest pest control methods and procedures.	Validation and promotion of recommended methods for protecting pulses during on-farm storage in different socio-economic circumstances. Development of advisory materials, identifying and supporting appropriate uptake pathways. Guidelines for best practice for trader pest management will be produced.	Cowpeas are an important crop in Northern Province and farmers have repeatedly mentioned insect pests attacking them during storage. Some traditional control practices exist but the project may have other more appropriate methods.	Natural Resources Institute	30/06/02	R7442
Understand	ling the mechanisms of bio-activity	in botanically derived materials used	d to protect stored grain in farm lev	el storage systems		
	To provide farmer with evidence that their locally available plant materials can be used effectively to prevent insect infestations of their stores.	Options for small-scale farm use of locally available plant materials against storage pests identified. The variation in plant materials and their bio-active constituents must be taken into acc- ount with respect to climate, geo- graphy, method of application, pest species and cultural practices	Depending on similarity of plant species, may be some very relevant information, or at least methodologies available in the Northern Province	Natural Resources Institute	31/03/02	R7373
Impact of re	odents on rural households in Moza	umbique and the development of sus	tainable control strategies			
	To develop sustainable control strategies that can be cost-effectively implemented and maintained by rural communities suffering from rodent pests.	Investigate the impact of rodent pests on rural livelihoods in Zambezia Province, Mozambique. Develop a sustainable community-run rodent control strategy.	Rodents have been highlighted as a huge storage problem by farmers in Northern Province. However, rodents are not typically eaten as in Mozam- bique. Thus trapping to increase protein availability in the diet may not be so appropriate for this area. Use of rodenticides is widespread.	Natural Resources Institute	31/03/02	R7372

Put	rpose	Ouputs	Potential relevance	Project lead institution	End date	DFID Project No
Grain storage pe	est management using inert dust	ts				
sus pes tow con orga iner	develop environmentally tainable and safe post-harvest it control methods by working ards the replacement of iventional synthetic anophosphate insecticides with t dusts for use in small- and dium-scale storage.	Methods for treating grain with inert dusts to provide protection against insect pests in storage developed. Methods for treating storage structures with liquid suspensions of inert dusts developed.		Natural Resources Institute	31/07/00	R7034

Risk warning to farmers of Larger Grain Borer infestation and reduced pesticide treatment in farm maize stores

Mud-based s	To develop a method so that extension services can give an early warning to farmers when there is a high risk of LGB migration into stores	Relationship between LGB trap catch and likelihood of storage attack defined, and presented as a usable risk warning method. Develop limited pesticide treatment methods for maize grain stored in bulk. Develop risk analysis method for cassava. TN vs LGB.	Interpretation of LGB trap catch data, as regards risk of store infestation. Information about optimum pesticide treatment against storage pests.	Natural Resources Institute	31/10/02	R6684 & R7486
	To address constraints to household food security and income generation in Ghana, relating to high storage losses and diminishing supplies of traditional materials for store construction. To make suggestions for dealing with the alarming trend in phosphine fumigation among small-scale farmers.	1) Anti-termite treatments have been identified and tested 2) Mud silos found not to be fit for fumigation and should be strongly discouraged	Termite control, fumigation not suitable for traditional structures	Natural Resources Institute	31/07/99	R6052

Good storage management principles training (hygiene, drying, store maintenance, grain protection)

Rapid screening of maize and sorghum for varietal resistance to post-harvest insect pests

To achieve a more rapid resistance	To speed up development of improved	This technique could be used by South	Natural Resources	30/06/01	R7430
screening method for maize and	maize and sorghum varieties.	African breeding institutes.	Institute		
sorghum					

Improved storage structures

	Purpose	Ouputs	Potential relevance	Project lead institution	End date	DFID Project No
Improved d	lesign of indigenous grain stores - ir	ncluding minimizing the use of hard	lwood			
	To develop & promote effective & sustainable grain management systems	Demonstration stores built and farmer opinions surveyed in Buhera and Mutoko Districts, Zimbabwe. Video and manual training course for agricultural extension on improved store construction developed.	Store construction techniques with reduced use of wood. Plastic pipe legs filled with cement are termite- proof. Are these materials readily available in Northern Province? The cost? The life span?	Natural Resources Institute	30/09/99	R6685
Knowled	lge/Information					
Innovative	uptake pathways for CPH program	me outputs				
	To investigate the potential for the CPHP to link into an existing indig- enous organisation & learn about traditional information uptake pathways & discover whether they are suitable for promoting the uptake of CPH research outputs.	Independent knowledge about the operations of the Zunde ramambo system, and the feasibility of incorporating CPHP research outputs into this system.	Investigation of traditional social welfare systems in South Africa may reveal similar community-based organisations which might be suitable for promoting the uptake of CPH research outputs.	Natural Resources Institute	30/03/00	A0904
Sustainable	e retailing of post-harvest technolog	y to the poor; alternative institution	al mechanisms for developing and t	transfering technolog	зy	
	Explore the potential of	Knowledge about institutional	This information could be highly	Intermediate	31/12/02	R7551

Explore the potential of	Knowledge about institutional	This information could be highly	Intermediate	31/12/02	R7551
commercialising the process of	mechanisms for developing and	relevant to the delivery of CPHP	Technology		
technology development and delivery	delivering the required technologies.	outputs developed in other countries	Consultants		
by building institutional linkages		to Northern Province communities.			
between user level and the					
technology/manufacturer/supplier					
level.					

Processing

Purpose	Ouputs	Potential relevance	Project lead institution	End date	DFID Project No
Increasing the utilization of sorgh	um- and millet-based foods in Tanza	ania			
To identify constraints to utilization of sorghum an to investigate the potenti extending their use within semi-arid and informal fo	d millets, and operations, consumer pref al for and trade links between ru n the producers and urban cons	ferences operated, small grains dehuller ural sumers in of possible uting chain to let quality. der	ly Natural Resources Institute	31/08/99	R6640
Raising rural family incomes throu	ugh improved peanut butter processi	ng			
To increase the potential income of rural groundnu through sale of peanut be improved quality.	It farmers peanut butter processing t	technology, ermined and bod safety elines for eurs so that crop in the Northern Province, used almost exclusively for home con- sumption. There may be potential for processing and market sales using similar techniques to those identified	Technology Centre or d in	30/09/02	R7419
Marketing and processing of baml	bara groundnuts (W.Africa)				
To develop and introduce technology, which will all times of bambara ground significantly reduced.	ow cooking for reducing bambara grou	undnut crop in the Northern Province, & ar rveys will be technologies which reduce cooking e potential time and fuel use might have uptake ana, Africa in Currently very little is marketed.	ny Institute	30/03/02	R7581

Facilitating the effective production and marketing of processed food products by small-scale producers in Zimbabwe.

To identify constraints that face small-scale producers and processors of horticultural products, and to suggest ways of overcoming these	Solutions to some of the constraints and uptake pathways reflecting the dual roles of the public and private sectors.	May have direct relevance to Northern Province farmers.	University of Reading	31/12/02	R7485
constraints.	Sectors.				

Purp	pose	Ouputs	Potential relevance	Project lead institution	End date	DFID Project No
To er produ sunflo	d cake from small-scale process nable peri-urban livestock ucers to make best use of ower oilcake in feeds for poultry small ruminants.	sing operations for inclusion in rational value Knowledge about the nutritional value of the oilseed products and their potential as feeding stuffs determined by feeding trials at experimental station and small-farm level.	Poultry and small ruminants are kept by the majority of households in the Northern Province. However, oilseed	•	o n 30/11/01	R7524

Horticultural issues

Drying methods for fruit and vegetables

Pollution and health problems in horticultural production in Harare: the need for improved quality assurance systems.

To improve food quality production consumer chain.	Pathways identified and guidelines proposed for an improved food quality production consumer chain, and reduced contamination of the resource base and produce. Enhanced access of small holder producers to markets and increased consumer confidence.	In the few areas where horticultural crops are being grown intensively in the Northern Province, the guidelines developed by the project might be relevant.	Wye College	28/02/03	R7519
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Improving quality assurance systems for fresh fruits and vegetables produced by peri-urban resource-poor farmers in Zimbabwe

To identify the nature and extent of food safety risks associated with horticultural production and marketing in peri-urban areas, to prioritise food safety constraints and develop strategies to minimise food safety risks.	Strategies developed to improve food safety, reduce health risks faced by consumers and develop market opportunities to improve incomes of resource-poor farmers.	Some farmers in Northern Province are growing chillies and other products for export markets. Improved quality assurance would help improve their market opportunities and incomes.	Natural Resources Institute	31/12/02	R7528
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Purpose	Ouputs	Potential relevance	Project lead institution	End date	DFID Project No
Opportunities and constraints in the subs of peri-urban vegetable growers through			meroon and Uganda.	Improving	the livelihoods
To investigate how important vegetables are for subsistence a income generation and how they marketed in and around major ci	are exotic vegetables within farming	ł	Natural Resources Institute	15/11/02	R6964 & 7487

Credit/ financial

Small holder credit: roles of farmers, government and private sector

	The development and promotion of efficient and effective marketing and credit systems	Analysis of the cotton sector credit programmes in Uganda and Zimbabwe. Analysis of potential application of similar input schemes to other sectors. Proposed ways in which small holder access to purchases inputs might be improved.	Lack of funds has been ranked as a high priority problem by farmers in Northern Province, lessons learnt from this project might help those developing proposals for small holder credit schemes.	Natural Resources Institute	R7197
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Maximising incomes from sweet potato production as a contribution to rural livelihoods

constraints.

To maximise economic returns for poor farmers through the development and validation of appropriate storage and handling innovations that enable farmers to have choice over how they manage their sweet potato harvest in order to optimise incomes.		In the few areas where farmers do grow sweet potato in the Northern Province and use it for trade with maize, long-term storage practices may enable them to prolong this trading advantage.	Natural Resources Institute	R7498
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Marketing

Purpo	ose	Ouputs	Potential relevance	Project lead institution	End date	DFID Project No
Improving smallho	lder access to maize marketin	ng opportunities in sub-Saharan Afi	rica			
To iden interver access areas c reducin sales o assemt efficien co-ordi	ntify socio-economic intions that improve market is for maize producers in remote of SSA by raising prices & ing uncertainty through improved opportunities. To investigate bly of marketed surpluses, more in transport utilisation, better ination between traders & rs, new market arrangements.	Maize market liberalisation has resulted		Wye College	31/07/99	R7147

Access to market opportunities in Ghana's off-road communities

To assess the scale & nature of community access problems for women & men in off-road areas, and to identify strategies for developing more effective market integration and market opportunities.	Restricted access is a serious underlying constraint to livelihood improvement, particularly for women. The project identified a selection of strategies which can be tested elsewhere in a variety of policy, institutional, cultural and environmental	Strategies identified may have potential for some of the more remote communities in Northern Province.	University of Durham	31/05/99	R7149
	contexts.				

	Purpose	Ouputs	Potential relevance	Project lead institution	End date	DFID Project No
Overcoming	<i>informational constraints: improve</i> To develop mechanisms to increase	<i>ing horticultural marketing and tech</i> New knowledge about marketing	hnical information flows to small-he The recommendations to address the	o lders Wye College	15/01/00	R7151
	market awareness and market orientation of targeted farmers and traders.	systems and informational imperfections in Ghana, Tanzania and Zimbabwe, and recommendations concerning initiatives from within the public and private sectors, respectively, to overcome marketing imperfections.	problems may well be very relevant to South Africa. E.g. training to build human capital - business principles should be integrated into school	, ,		

Methodologies

situation.

Identifying characteristics which influence consumer acceptance of new sorghum varieties

To identify measurable traits which influence consumer acceptance of sorghum in Zimbabwe, to feed into breeding programmes.	Sensory qualities of sorghum varieties identified and quantified. Rapid and simple physical and chemical methods for monitoring sorghum quality determined.	If similar traits were found to influence consumer acceptance of sorghum in South Africa, this information could be shared with sorghum breeders. The methodology used to identify (un) acceptable traits could be used for similar activities in South Africa.	Natural Resources Institute	13/12/99	R7523
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Analysing Changing Gender Relations for Monitoring and Evaluation in the Renewable Natural Resources Sector

1 0 11	Methods for analysing changing gender roles developed and tested.	Practical methods which could be adapted for specific situations.	Overseas Development Group	30/05/99	R7039
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Purpose	Ouputs	Potential relevance	Project lead institution	End date	DFID Project No
incorporating the needs of resource- poor groups for different commodities,	Identification of poor peoples' social and environmental criteria through field research. Dissemination of fieldwork findings and analysis of opportunities and challenges for adopting ethical criteria with private companies, NGOs and trade unions.	Communities in the Northern Province provide labour on tea estates. There may be potential for using criteria developed in the project to address and enhance ethical performance.	Natural Resources Institute	01/06/98	R7168 & R7468

Development of tools for ethical trading of horticulture exports by resource poor groups - Phase 1