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## Recent and Ongoing Research

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## RECENT AND ONGOING RESEARCH

### RESEARCH PROJECTS OF CENTRE FOR NEPAL AND ASIAN STUDIES (CNAS) SUMMER 1987

D.R. Upadhyaya.

"Nepal-India and Nepal-China Relations."

The main objective of the study is to investigate new facts and verify the old ones about Nepal-India and Nepal-China relations during the period of the Panchayat polity. It will also attempt to find out cause-effect relations of political behavior between the pair of these three countries.

Badri Prasad Shrestha.

"Nepal Economy in Retrospect and Prospect."

The study will attempt answering the following questions: (1) Is the present state of affairs in Nepal due to lack of vision and perception of an appropriate policy and strategy of development or due to lack of continuity and consistency in both policy and programs? (2) How far has Nepal succeeded in making the best use of the Panchayat policy with its broad base at the grass roots level for effective popular participation or for dissemination of development-benefits to the people at the bottom of the scale?

Centre for Nepal and Asian Studies.

"Preliminary Survey of Remote Areas of Nepal."

CNAS expects to undertake a 3-year study on the strategies for the development of the remote areas in 1988. The remote areas comprise of 18 of the 75 districts in Nepal. The proposed study has the following objectives: (1) to carry out a reconnaissance of development-related problems of the remote areas; (2) to train manpower for the projected large scale study; (3) to prepare the final research proposal. The study team has completed the reconnaissance of the four sample remote districts, Darchula, Dolakha, Gorkha and Taplejung. This study is funded by International Development Research Centre.

### FOREIGN RESEARCHERS AFFILIATED WITH TRIBHUVAN UNIVERSITY 1986 - 1987

Vicanne Adams.

"Medicine and Modes of Production: An Investigation of the Socio-economic Bases of Medical Traditionalism among the Khumbu Sherpas of Nepal."

Maria Dagmar Bar.

"Effects of Income-Improving Projects Sponsored by National and International Agencies on the Situation of Rural Women in Nepal."

Objectives: (1) a survey of activities undertaken to date by international and national development agencies to improve the income of peasant farmers; and (2) empirical study of the effects of income-improving projects on the situation of rural women.

King D. Beach III.

"Hisaab Gardai (Doing Math): A Cognitive-Symbolic Study of Nepalese Children's Mathematical Reasoning at School and Work."

Objectives: (1) to contribute to an understanding of mathematical reasoning as a flexible, socially-contexted, and goal-directed activity; (2) to provide useful insights into the benefits and difficulties of choreographing ethnographic and experimental research methods; and (3) to understand the difficulties encountered by Nepalese children learning mathematics in school given their facility with mathematical reasoning at work.

Graham Emmanuel Clarke.

"Socio-cultural Factors in Himalayan Rural Development."

Objective: to study the relations between small scale rural societies and state-wide institutions of modernization and change in the highland Himalaya.

Thomas E. Fricke (University of Michigan).

"Economy, Family Change and Fertility in Nepal."

This research will focus on the implications of economic change on family relationships and kin networks; and investigate the consequences of the familial changes for reproductive behavior in the light of social and demographic theory.

Sussane von der Heide.

"Cultural Change of the Migrated Thakali Society with Special Respect to the Influence of Hinduism."

Objective: ethnological study with sociological aspects.

Stephen Lawrence Mikesell.

"The Role of the State and Market Formation in the Historical Development of Lower Caste Artisan Relations in a Nepalese Town."

Objectives: (1) to study the historical perspective extending beyond the community to break down the presupposition of an eternally existing traditionality usually attributed to caste relations; and (2) to show how these relations participated in the generation of a labor system represented in the state and market.

Dale Lee Nafziger.

"Engineering Analysis for Rural Electrification Systems in Nepal."

Objectives: (1) to allow rural electrification to become a viable and productive component of hybrid irrigation/agro-processing systems, and an instrument for greater development in the hill areas of Nepal; (2) to acquire data allowing quantification of baseline energy utilization for specific areas in rural Nepal; (3) to analyze rural electrification hardware and software alternatives, and identify constraints related to their implementation given the technical, economic, and social conditions existing in rural Nepal; and (4) to evaluate the impact of different rural electrification hardware and software alternatives upon base-line energy flow from an engineering and a socio-economic perspective.

Douglas Bryan Smith.

"Evaluating the Potential for Incorporating Socio-economic Factors into Formal Agricultural Research Activities in Nepal."

**TRIBHUVAN UNIVERSITY RESEARCH PROJECTS  
CENTRE FOR ECONOMIC DEVELOPMENT AND ADMINISTRATION (CEDA)  
APRIL - JULY, 1987**

Rajeshwar Acharya.

"Registration of Vital Statistics (RVS) in Nepal: An Overview."

Objectives: (1) to assess the working of the RVS program; (2) to analyze the nature of data generated by RVS program; (3) to find out issues and problems on way to its implementation; and (4) to suggest recommendations.

Gauri Shankar Agrawal.

"Development of Inland Water-ways in Nepal: Prospect for Regional Cooperation."

Objective: to find out areas of cooperation for development of coastal shipping, inland water-ways, and inter-island sea transport within the SAARC region.

Rajendra Prasad Shrestha Abullaish and Narendra Kumar Gurung.

"Village Level Planning for Development in Nepal."

Objectives: (1) to design a methodology for the village level planning; and (2) to accelerate development process of the country.

Lok Raj Baral.

"Politico-economic Dimensions of South Asian Regional Cooperation."

Objectives: (1) to examine the political relations of Nepal with South Asian countries in order to identify the scope of complementarity and understanding; (2) to examine the role of extra-regional forces that try to precipitate tension among and between the nations of the region; (3) to examine their vital national interests enhanced by multilateral arrangements that supplement existing bilateral dealings; and (4) to examine the political implications of economic cooperation in the South Asian countries.

Bhuban B. Bajracharya and Udaya Bahadur Amatya.

"Study on Self-employment in Non-farm Sector of Nepal."

Objectives: (1) to review the government policies and programs for the promotion of self-employment in the non-farm sector; (2) to examine the extent and nature of self-employment in non-farm sector to analyze the changes in the structure of self-employment in the 1971-1981 inter census periods; and (3) to identify problems and prospects of self-employment.

B.D. Bhatta.

"An Overview of Manpower Requirement for the Implementation of Decentralization."

Objective: to assess the manpower requirement for the implementation of Decentralization Scheme in Nepal as envisaged by HMG.

Khem Bahadur Bista, Hari Dhoj Pant and Prem Sharma.

"Garment Industry in Nepal."

Objectives: (1) to find out the problems faced by the entrepreneurs of the garment industries and authorities who are concerned; and (2) to find out the prospects and constraints of the industries for both entrepreneurs as well as governments.

Ramesh Chandra Chitraker.

"A Study of the Market Feasibility of Bringing Out an Eastern Regional Edition of the Gorkhapatra."

Objectives: (1) to see the market feasibility of bringing out an Eastern Regional Edition of Gorkhapatra; (2) to estimate the cost of bringing out such publication and work out when the corporation can reach or cross the break-even point in this publication; and (3) to give recommendations regarding the aspects that would have to be taken into account and the measures that would have to be followed for bringing out such a regional edition.

Arun K. Das and Mahendra Raj Joshi.

"Pricing Policies for Basic Needs Oriented Commodities in Nepal."

Objectives: (1) to review the general pricing policies of selected basic needs oriented commodities; and (2) to analyze the general effect of present price policies in aggregated production and consumption of basic commodities in Nepal.

Binod Kumar Karmacharya.

"Nepal's Export Trade Growth with the SAARC Countries: Current State and Future Prospects."

Objective: (1) to analyze the cost effectiveness (both financial and social) of alternative policies for attaining the basic needs (foods) in the hills of Nepal.

Ram Bahadur Khadka and Rabi Sharma.

"Integrated Resource Management and Development in the Himalayan Region."

Objectives: (1) to examine the existing practices of resource management and exploitation at both local and national level in view of the policies and programmes of the local and higher bodies with Mahakali river basin as a case study; and (2) to add the potential, scope, constraints and implications of resource management and development at the regional level in the Himalayan region.

Narendra Kayastha and K.C. Kishore.

"Study of Manpower Problems in South Asia with Reference to Nepal."

Objectives: (1) to review the current situation of manpower supply and demand and its problems; (2) to assess magnitude of skilled and unskilled emigration; (3) to review the types of current training for manpower development; and (4) to suggest policy recommendations to tackle the manpower problems and to promote SAARC cooperation.

Basudev Chandra Malla and Bhupa Das Rajbhandari.

"An Evaluation of Development Activities in Kathmandu Nagar Panchayat."

Objectives: (1) to evaluate the performance of Kathmandu Nagar Panchayat in Development Activities; and (2) to find out the constraints faced by the Nagar Panchayat in formulating and implementing the plans and programmes.

Sunil Bahadur Thapa.

"Impact of Decentralization on Rural Development."

Objectives: (1) to analyze and assess the impact and effectiveness of the decentralization policy in the context of the Decentralization Act 1982, by laws 1984 and to solve the rural problems; and (2) to examine the current development programs in Surkhet District.

Madhav Bdr. Karki, Chiranjibi Upadhyaya and Pradeep Regmi.

"Improvement in the Management of Important Fodder Trees in the Terai and Mid-hill Regions of Nepal."

Objectives: (1) to generate quantitative information about the present status of fodder tree cultivation; (2) to evolve a proper regeneration method of fodder trees for quicker and better tree growth; (3) to educate the farmers on the merits of better management of fodder trees; and (4) to extend an appropriate technology of fodder tree cultivation in the farmers.

**RESEARCH CONDUCTED AT THE  
CENTRE FOR EDUCATIONAL INNOVATION AND DEVELOPMENT (CERID)  
APRIL - JULY, 1987**

"Non-formal Education and Rural Development: Survey of Current Status and Planned Programs."

Objectives: (1) to identify various government and non-government agencies who have placed non-formal education as an important component in their rural development programmes; (2) to make a detailed record of non-formal education activities/programmes undertaken by different agencies in various parts of the country; (3) to make an enquiry into the allocation of budget and manpower in the non-formal education sector as a part of the total rural development programme; and (4) to identify programmes that are planned to be undertaken by different agencies.

"Development of Instructional Materials for Teaching Astronomy and Geology at Secondary Schools."

Objectives: (1) to study the difficulties and problems in the instruction of astronomy and geology courses in the schools of Nepal; and (2) to design and develop instructional materials and methods of their incorporation in the teaching process.

"Standardized Achievement Tests Construction."

Objectives: (1) to develop and standardize achievement tests in selected school subjects such as English; (2) to identify, on the basis of a study of curricula and text books, areas of assessment in mathematics and English at the secondary level; (3) to prepare item banks for these subjects; and (4) to design and try out the tests for finalizing them for eventual standardization.

"Instructional Improvement in Primary Schools (Third Phase)."

Objective: to improve the quality of teaching in schools. This three year project was initiated by CERID in collaboration with International Development Research Center (IDRC), Canada, 1982.

"Non-formal Education and Rural Income Generation for Chepang Youth and Women."

Objectives: (1) to raise awareness level of the target group in health, nutrition, sanitation and social welfare through non-formal education; and (2) to help them in income generation activities as suited to the local environment and resourcefulness of the target groups.

"Effectiveness of Primary Education."

Objective: to evaluate the effectiveness of primary education (grade 1-5) in Nepal.

"Promotion of Girl's Education in the Context of Universalization of Primary Education."

Objective: to make a survey of the status of girl's education in Nepal in the context of universalization of primary education. This evaluative study is being undertaken by CERID in collaboration with the Ministry of Education and Culture/HMG, Nepal.

"Evaluation of UNICEF-Supported EAFEP/EGWN Project in Nepal."

Objectives: (1) to examine the policies, plans and programs related to the EGWN Project activities and the processes involved in them; (2) to study the implementation scheme and processes as adopted for conducting the programme; (3) to determine their respective effectiveness; (4) to assess the impact of the programme in general, and (5) to make recommendations for possible improvement in the EGWN programme.

**RESEARCH PROJECTS CONDUCTED AT THE  
CENTRE FOR NEPAL AND ASIAN STUDIES (CNAS), KIRTIPUR  
APRIL - JULY, 1987**

Dor Bahadur Bista.

"A Cultural and Historical Study of the Byas Valley and Holung Region."

Objectives: (1) to judge and assess the currents of cultural and historical contacts of the two regions with adjoining areas in the vicinity; (2) to assess and describe at length the art, architecture and objects of other cultural and historical interest found in them; (3) to make a survey of the prevailing cultural practices, to analyze the problems and state of heritage preservation; and to review the social and economic conditions of the people relating to their cultural growth across centuries, and (4) to search, decipher, analyze and prepare copies or facsimiles of all historical and cultural documents.

J.P. Cross.

"A Comparative Analysis of Words Used in Turner's Dictionary of Modern Nepali."

Objective: to evaluate the changes of Nepali words in use 50-60 years ago and today, both meanings and spellings, with a view to allowing scholars, linguists, examiners etc. to be aware of such changes in case they influence their work.

Dilli R. Dahal, Chaitanya Mishra and Shyam Bhurtel.

"International Migration in the South Asian Region."

Objectives: (1) to document international migration within the region; (2) to study and analyze such migration systems and (3) to carry out an impact analysis of international migration on Nepal, including those in the various regions of the country.



Bharat Sharma.

"The Patterns of Voting Trends in the National Panchayat Election."

Objectives: (1) to assess the basis of voting in the forthcoming National Panchayat election, particularly those associated with national interest and public policy making issues; (2) to forecast legislative trends in the National Panchayat, particularly those on national issues; (3) to study and test institutional development which is now taking place and forecast trends which will continue for the next years; (4) to study the most distinctive products of behavioral mood of the participants who vote, participate in political process in other ways, or express certain attitudes or beliefs and (5) to study the correlation between the pattern of voting and group affiliation so as to arrive at a deeper understanding of the nature of "Competitive Politics" emerging in the National Panchayat.

G.P. Acharya.

"Long Term Manure and Fertilizer Response on Rice-Wheat Rotation."

Objective: to study the long-term effect of inorganic fertilizer, organic manure and combination of both crop yield and soil properties in rice wheat rotation, 1986.

**RESEARCH PROJECTS OF THE NATIONAL WHEAT DEVELOPMENT PROGRAMME  
BHAIRAHAWA AGRICULTURE FARM, SIDDHARTHANAGAR,  
APRIL - JULY, 1987**

H.P. Chaudhary.

"Effect of Different Agrochemicals on Wheat Yield."

Objectives: (1) to study the effect and response of some agrochemicals on wheat crop yield, and 2) suspected soil problems 1986.

P.L. Karn, H.P. Bimb, J.K. Shrestha and L.S. Karki.

"International Diseases Trap Nursery."

"Helminthosporium Screening Nursery."

"Nepal Diseases Screening Nursery."

Objectives: (1) to identify the diseases resistant wheat strains for strengthening the breeding programme; (2) to determine the virulence spectrum of pathogen population in different region of the country; and (3) to assist in mapping the movement and geographical spread of different wheat disease, 1986.

R.M. Pathak and C.P. Kohar.

"Estimate of Losses Due to Pink Borer (*Sesamia inferens*) Under Late Sown Condition of Wheat."

Objective: to find out the losses in yield due to attack of pink borer under late sown condition of wheat 1985.

R.M. Pathak and C.P. Kohar.

"National Rice Stem Borer Nursery."

Objectives: (1) to identify the resistance cultivances; and (2) to assess the damage done by the insects and use the Resistance Genotype in breeding programme, 1986.

T.P. Pokhrel, K.N. Adhikari Bhatta, D.K. Rijal and B.R. Thapa.

"Wheat Breeding Stalls of NWDP Bhairahawa."

Objective: to identify superior wheat varieties for the Tarai as well as tars and lower valleys below 3000 feet under irrigated conditions, 1987.

T.P. Pokhrel, K.N. Adhikari Bhatta, D.K. Rijal and B.R. Thapa.

"International Spring Wheat Yield Nursery (ISWYN)."

Objective: to identify superior wheat varieties under different agroclimatic conditions, 1987.

K.R. Regmi and T.P. Tiwari.

"Studies on Exploiting Yield Potentials of Wheat Varieties Under Different Fertility and Plant Densities."

Objective: to find out the yield potentials of wheat varieties under test, 1986.

K.R. Regmi, R.C. Munan Karmi, N.P. Rajbhandari, S.P. Shrivastava Bhatta and G.P. Acharya.

"Long-Term Fertility Trial on Rice-Rice-Wheat Rotation."

Objective: to study the effects of organic as well as inorganic fertilizers on crop yields and soil properties on rice-rice-wheat rotation.

M.L. Shaha and Majahar Husen Kalem.

"Study on the Economics of Different Tillage Practices on Wheat."

Objective: to find out the effective and economic methods of land preparation for wheat production, 1986.

M.L. Shaha and Majahar Husen Kalem.

"Effect of Levels of Seed Rate and Fertilizer in Relation to Spacing on Plant Population."

Objectives: (1) to find out optimum seed rate with respect to plant population; (2) to study the effect of spacing on plant population; and (3) to explore the effect of level of nutrients on plant population, 1986.

S.K. Shrestha.

"Effect of Seeding Dates and Varieties on Wheat Yield in Terai."

Objectives: (1) to determine the response of wheat varieties to a wide range of seeding dates; (2) to find out the optimum date of seeding for each varieties; and (3) to identify varieties suitable for late sown condition in the Tarai, 1986.

J.K. Shrestha and H.P. Bimb.

"Comparative Study between Embryo and Field Infection of Loose Smut of Wheat."

Objective: to conform the relationship between embryo and field infection in a susceptible wheat variety, 1986.

L.P. Shrivastava.

"Studies on Compatibility and Efficacy of 2,4-D and Isoproturan Mixture for Comprehensible Weed Control in Wheat."

Objective: to find most economical combination and compatibility of 2,4-D and Isoproturan for the weed control of wheat field, 1986.

T.P. Tiwari.

"Comparative Performance of Different Mulching Materials and Moisture Conservation Methods on Wheat Crop Under Rainfed Condition."

Objective: to study the possibility of moisture conservation for the better use of moisture at wheat crop growth period using different mulching materials, 1986.

B.R. Thapa and R.P. Shrestha.

"Comparative Performance of Inter-Cropping Vis-a-vis Mixed Cropping of Linseed, Lentil and Mustard with Wheat under Rainfed Condition."

Objectives: (1) to assess the usability and feasibility of different inter-crops and mixtures with wheat; and (2) to identify the most economic combination of wheat based inter-cropping vis-a-vis mixed cropping, 1986.