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HEALTH, NUTRITION AND  
AGRICULTURAL DEVELOPMENT:  
A BIBLIOGRAPHY.

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## HEALTH, NUTRITION AND AGRICULTURAL DEVELOPMENT

A BIBLIOGRAPHY

An Introduction

A Note on the Sections/Series

Section I.      Agricultural Development and Health, Nutrition and Environmental Relationships

Series

- A      =      Agriculture/Agricultural Development/Rural Development
- B      =      Agricultural Development and Environment
- C      =      Agricultural Development and Nutrition
- D      =      Agricultural Development and Health

Section II.      Health of Farmers/Agricultural Workers/Agricultural Communities

- E      =      Health of Farmers/Agricultural Workers
- F      =      Health Hazards of Specific Groups of Agricultural Workers/Work
- G      =      Health of Plantation Workers/Plantation Medicine
- H      =      Farmers and Communicable Diseases including Zoonoses
- I      =      Farmers and Agrochemical Hazards
- J      =      Farmers and Cancer
- K      =      Farmers and Respiratory Diseases
- L      =      Farmers and Some Other Diseases (other than those included in H - K)
- M      =      Farming Accidents/Hazards of Mechanization
- N      =      Occupational Physiology in Agriculture (including ergonomic aspects and work capacity)
- O      =      Women and Child Workers and Health Issues

Section III.      Occupational Health and Safety

- P      =      Occupational Health/Safety/Welfare/Legislation/Issues in Agriculture
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## INTRODUCTION

The World Health Organization's Sixth Report on the world health situation (1973-1977) noted that 'throughout the world and particularly in the developing countries, the majority of the work force is engaged in Agriculture. Agricultural workers have a great many health problems, some of which are the results of work hazards. These facts are often forgotten because of the widespread misconception that occupational health is concerned mainly with industry and industrialised countries and because of the lack of adequate information about health problems in agriculture'. This paucity of research on the occupational health problems of agricultural workers is only one dimension of the problem.

The other dimension of the problem is related to the mode of agricultural development particularly in the post World-War II era, a significant feature of which has been the 'modernization' of traditional agricultural practices. This 'modernization' package has usually meant a combination of the following:

- Improvement of irrigation facilities by the construction of dams, canal systems and reservoirs;

- Introduction of high yielding varieties of seeds for food and cash crops;

- Increased use of agrochemicals - fertilisers, pesticides and herbicides;

- A genetic upgrading of livestock as well as intensive livestock farming;

- Increasing mechanisation of Agricultural practices;

- A shift from subsistence economy to a cash economy including often a shift from produce for local use to produce for the urban market and for export;

- An extension of land use by deforestation and land upgradation practices;

- A diversion of land resources for the generation of raw materials (plant based) for the concomitant industrialization.

While the overall objectives of this modernization package were to improve the gross national produce of the country, move towards greater food self sufficiency, and improve the living conditions and purchasing capacity of the rural people, the experience of this form of agricultural development, has resulted in many unintended social, economic, environmental and health related effects which are only being recognised of late. These effects include

- the dangers of pesticide use and overuse;

- the changing patterns in the environment, vector ecology and disease epidemiology especially vector-borne diseases and the arboviruses;

- the increase in disabling accidents;



the changes including often the deterioration in the quantity and quality of the local diet;

the economic marginalization of the rural poor;

the dangers of food related toxins especially the mycotoxins,

and so on.

These effects are intrinsically related to the scale in which many of these measures were promoted and to the inadequacies of the socio-cultural adaptation that such 'technology transfer' from the West, engendered. Much of this technological innovation arose in the West in response to a combination of factors - labour shortages in rural areas due to rapid urban industrial development, social control of agricultural land and so on. The same factors did not always operate in the developing country situation.

A comprehensive overview of the Health of Agricultural workers and rural agricultural communities must therefore not only include the physical, chemical, biological, mechanical and psycho-social hazards of the Agricultural environment per se but also, study it in the context of the dynamics of agricultural development and the changes in the nature and quality of the agricultural environment in recent decades.

### The Bibliography

As an ad hoc sabattical assignment at the London School of Hygiene and Tropical Medicine (1986-87) I have attempted such a preliminary review (separate report). An additional outcome of this assignment has been the evolution of a bibliography, covering the main areas in the relationships between Agricultural Development and the Health and Nutrition of agricultural workers and rural communities.

This bibliography evolved as a result of three processes initiated during the assignment:

- a) A Note outlining various aspects of the "Health and Agriculture - intersectoral relationships" was prepared in November 1986 (Appendix A) and circulated to a number of reseachers and research centres (Appendix B). They were requested to respond to the note and send suggestions of materials, that should be included and additional comments.
- b) A computer search of three data bases was undertaken in November 1986. These were Medline, ILO (CISDOC) and Commonwealth Agricultural Bureau (CAB) bases. The Librarians of International Labour Organisation (Geneva) and Food and Agriculture Organization (Rome) also provided lists of references from their data bases.
- c) A library search of key references - books, monographs and review articles was undertaken and additional cross referencing was done.

The references were put on a card index system and then reclassified into 16 subdivisions (Series A to P), to provide the tentative



framework for the present bibliography. Each series is on a data disc and can be updated from time to time.

Briefly the scope and content of the 16 series of the bibliography are as follows:

- A = This includes overviews of Agricultural and rural development particularly in developing countries, focussing on farming economics, sociology of rural change, agricultural production, peasant organisations and the 'Green Revolution'.
- B = This includes reports on the effects of Agricultural development on the environment particularly in South East Asia especially India, and in the United Kingdom highlighting the similarities and differences between developed/developing country experiences.
- C = This includes explorations of various aspects of the relationship between Agricultural Development, Food, Nutritional status and Malnutrition.
- D = This includes the broad issues related to health, consequent to agricultural development policies - Irrigation and health, changes in vector ecology and disease epidemiology, food toxins, effects of HYV's, population migration and so on.
- E = These include descriptive accounts as well as Mortality and morbidity studies of farmers and agricultural workers. Occupational health surveys from Asia, Africa, Europe and USA are also included.
- F = As a supplement to the studies included in 'E' this series includes all references that focus on specific type of agricultural activity or hazards of specific crops or 'specialist' farmers.
- G = Since Plantations have both an agricultural/industrial connotation and historically and currently operate somewhat differently from peasant agriculture, studies on health/occupational health of plantation labour have been allotted a separate section.
- H = Infectious and parasitic diseases particularly the zoonoses form the chief component of the biological hazards in the agricultural environment and are included in this section.
- I = This section deals with all aspects of chemical hazards in the agricultural environment particularly fertilizers, pesticides and herbicides.
- J = This section concentrates on the 'cancer problem' in the agricultural communities particularly related to the long term hazards of increased agrochemical use. This section supplements the previous one.
- K = Respiratory hazards form a major group of hazards and are covered in this chapter. In addition to Farmers' lung which has received much attention, a wide range of other respiratory diseases is included.



- L = This section brings together all the other disease problems not included in the Sections H - K. Skin diseases, gastro-intestinal diseases, cardiovascular disease, Endemic goitre, bites and alcoholism. Not a satisfactory grouping but each group was initially too small to be allotted a separate section.
- M = This section includes reports of studies of farming accidents and the hazards of mechanization and draws from case reports and surveys in both Asia and the Western industrial nations.
- N = This section includes a wide range of Occupational physiology studies in Agricultural work focussing on energy expenditure, work capacity and productivity and ergonomics. The effects of specific diseases on these dimensions is also included.
- O = This section brings together some aspects of the health and related problems of women workers in agriculture and child 'workers'. This focus has been inadequately researched and is gaining ground only in recent years.
- P = This section brings together a wide range of articles and reports on occupational health and safety issues in Agriculture particularly pertinent to occupational health services, welfare facilities, social security and legislation.

From a perusal of the bibliography it will become obvious that the occupational health of agricultural workers as well as the health effects of agricultural development policies are both areas of study, receiving increasing attention only since the seventies, though even the existing research effort is hardly commensurate with the magnitude of the problem or the magnitude of the population at risk.

While "Farmers' lung" has received worldwide attention since the sixties, the acute and chronic hazards of agrochemical use and the increasing incidence of occupational accidents consequent to mechanization have begun to be studied only since the seventies. Infectious and parasitic diseases particularly the zoonoses have received increasing attention in the 'Developing World' while in the 'Developed World' with its capital intensive farming, the increasing risk of cancer in agricultural communities is becoming a major focus. In all parts of the world the environmental degradation, consequent to agricultural development and expansion is being recognised as a 'crisis' situation. In Asia, particularly, the unintended economic, social and health related effects of the so called 'Green Revolution' and particularly the changing pattern of arboviral infections due to spread of irrigation and rice farming are becoming a cause of concern.

Most of the studies have followed the orthodox 'reductionist' medical research approach of studying individual diseases and hazards and attempting to identify multiple risk factors associated with each disease or hazard. While it is advantageous, from the 'orthodox research' point of view to study problems this way - a major lacunae in this approach is that it does not reflect the complexity of the actual experiences of farmers and agricultural



communities, who in reality experience multiple problems all together.

Agricultural communities are not homogenous groups, but in reality are heterogenous, and stratified by socio-economic status, land ownership and socio-cultural factors. Different sections of the community experience health and nutrition problems to varying extents. Social processes including agricultural development policies further modify this multi-problem, disease/hazard experience through the graded social benefits and opportunities they provide to different sections. Environmental and socio-economic changes brought about by major policy shifts create new health risks and disease patterns that further complicate this mosaic of experiences in agricultural communities.

Present day research methodologies seldom address these complexities. Notwithstanding the methodological complexities of studying a mosaic of problems at the community level, a much more wholistic approach to study of the situation is urgently required. Contending with the limitations of the present epidemiological approaches there is need for tentative experimentation with new approaches to data collection and analysis.

Researchers in nutrition, in recent years particularly, have begun to focus on the broader links between nutritional status, agricultural development and social processes affecting rural life as is exemplified by some of the studies and reports included in the bibliography. By shifting the focus of the hypothesis from a study of 'disease processes' to a study of 'social processes' of which diseases or health and nutritional status are but symptoms, a deeper understanding of the problem is beginning to emerge. Such an exploration which is both multidisciplinary and intersectoral prevent Health and Nutrition from becoming trapped in a severely, disease oriented, intracellular, medical model. More of such efforts will hopefully generate a more meaningful understanding of this multi-problem social reality, thereby generating policy alternatives for its amelioration.

Another newly developing trend is the movement beyond the objective/subjective dichotomy to a more integrated view of community experience, and the evolution of a participatory, problem solving approach based in the community and arising out of a long term interaction between health and development action initiators, researchers and the farming community. Such a methodology which has been termed 'interactive' and 'participatory' is an increasing recognition of the value of 'experiential knowledge' as opposed to 'experimental knowledge' and the increasing appreciation of involving the farmer (worker) and or the community in problem solving research. Many of these trends and issues are discussed in detail in a separate overview document to which the present bibliography will form a companion volume.

However, it is hoped that this bibliography will, by itself, help to provide a 'balloonist view' of the complexity of the relationship between agricultural development, health and nutrition and support the growing interest in this important but much neglected area. Recent meetings in the Asian region have identified 'agricultural occupational health' as a first on the list of priorities for collaborative research, and have stressed that occupational health



services for agricultural workers requires further attention and efforts ( ). Similarly a comprehensive review article on the Health Effects of Agricultural production from a 'developed country' note that 'public health and the field of occupational health have been slow to develop an analysis of agricultural health hazards, and have barely noted the impact of industrialization on the nature of agricultural work itself ... The health effects of such change have been studied in urban populations, but rarely in agriculture, despite a wealth of anecdotal evidence that the impact has been profound. This paucity of research has had a particularly crippling effect on attempts to regulate agricultural practices' ( ). Significantly agricultural occupational health is being perceived gradually as a priority area in both 'developed' and 'developing countries' and will become an important area of collaborative research in the years to come.

A bibliography such as this is only the beginning of a process, and is offered to all those researchers who are interested in these areas of research, to use and to build upon and enlarge. It is hoped that this 'pilot' project will help to initiate further interest in the topic and that a more comprehensive and truly global bibliography can emerge in the future by an increasing collectivity of efforts.

It is important to clarify that the present bibliography is heavily weighted towards English language literature, which actually introduces an unacceptable bias, especially in a topic such as this, since many other language regions of the world, where relevant work has been done, get excluded. This bibliography needs to be expanded to include key articles/studies reported in other language literature as well.

In addition the degree of exploration of each sub-section is somewhat variable, a manifestation of both a time constraint as well as accessibility to relevant literature. Both these lacunae could be overcome if further definite, support for improvement of this pilot bibliography were forthcoming.

For the present however, this bibliography is released as a definitive outcome of a year of reflection, during a sabbatical assignment, and it is hoped that mechanisms will be available to reach it to all those who are interested in this area of research.



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