

(b) Conduct studies of high-input and low-input agriculture to compare their productivity and sustainability. The research should be conducted under various environmental and sociological settings;

(c) Support research on mechanization that would optimize human labour and animal power and hand-held and animal-drawn equipment that can be easily operated and maintained. The development of farm technologies should take into account farmers' available resources and the role of animals to farming households and the ecology.

(c) Human resource development

142. National Governments, with the support of multilateral and bilateral development agencies and scientific organizations, should develop curricula for agricultural, forestry and fishing (CANZ) colleges and training institutions that would integrate ecology into agricultural, forestry and fishing science. Interdisciplinary programmes in agricultural, forestry and fishing ecology are essential to the training of a new generation of agricultural forestry and fishing scientists and field-level extension agents.

(d) Capacity-building

143. National Governments should:

(a) Create the institutional and legal mechanisms to give effective land tenure to farmers [who demonstrate they are conserving and utilizing resources properly] (USA)/ farmers with a view to conserving and utilizing resources properly (EC)/ to forest harvesting and fishing rights to those who are working towards sustainable management of resources (CANZ). The absence of legislation indicating land and fishing rights has been an obstacle in taking action against land degradation in many farming communities in developing countries;

Alternate (b) Strengthen rural institutions that would enhance sustainability through locally managed credit systems and technical assistance, small facilities for producing inputs, appropriate equipment and small-scale processing units, and marketing and distribution systems; (CANZ)

(b) Strengthen farmer institutions that would enhance locally managed credit systems, small facilities for producing agricultural inputs, small-scale processing units (EC) and agricultural equipment, and marketing and distribution (EC) systems;

(c) Establish mechanisms to increase women and indigenous groups' [farmers'] (CANZ) access to agricultural, forestry and fishing training, credit (CANZ) and use of improved appropriate [farming] (CANZ) technology for ensuring food security.]