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Silveira F*

Department of Crop Science, National Agriculture and Food Research Organization, Tsukuba 305-8518, Japan

Introduction

The financial sector should work with commercially oriented farmers and entrepreneurs to strike the necessary financial deals that are required for increasingly commercialized farming. Enabling smallholder farmers' access to credit is part of the policies and strategies to improve the productivity of farmers. Commercial banks should be available to farmers at lower interest rates, and co-operatives and microcredit institutions should serve as intermediaries between formal banks and smallholder farmers. Microfinance institutions should offer a basic credit facility for both low-cost and motorized equipment, and mechanization should include crop protection tools and irrigation tools [1]. Ethiopia could continue to use animal traction alone or in combination with engine power by making significant innovations in the implements and by improving the oxen's body condition. The progressive farmers in the hills are in search of appropriate agricultural tools and machinery, but they fail to get into the local markets. Experience shows that for small farmers, the pathways for mechanization technology, especially tractor adoption, are between two-wheel tractors and four-wheel tractors [2]. Ethiopia's government has a lot to learn from Asian and African experiences, as well as from its own experience. In Ghana, promoting affordable, smaller tractors suitable for local soil and farming conditions is a key part of the agricultural development strategy. In Thailand, 2WTs have been increasingly adopted, substituting for the use of draft animals, while 4WTs are dominant in India and Nepal. Strategically selecting appropriate technologies and practices from other rice-producing countries in Africa and Asia and adapting them to Ethiopian conditions. Policymakers need clear options backed by evidence [3]. Research reports recommended that strategizing the training and outreach activities of NRRTC is essential to strengthening the capacity of all value chain actors and members of the national rice mechanization system. The most important details in this text are the structures of landholding, incentives and support measures for mechanization, preferential treatment on capital machinery importation, and multiple value-added taxes on imported raw materials. Land consolidation is the most important policy instrument, and legislation on land leasing, contract farming, and land banking are suggested options for promoting the mechanization and commercialization of agriculture [4]. Tax and subsidy rationalization is needed to promote the use of farm machinery without distorting the market. An immediate work plan is needed for the development of strategies and action plans for the implementation of the new Agriculture rudimentary tools or types of equipment, as well as traditional animal-drawn implements. Draft power is so important for primary tillage that 93% of households rely on livestock, primarily oxen [7]. Rice harvesting is done manually using a serrated sickle for cutting the standing crop and a further 20 man-hours/ha for collection and piling [8]. Farmers are responsible for most of the pre-milling operations, with 78.8% of the farmers selling unprocessed rice. Processors and assemblers are also in small towns and are stored in their homes, mill houses, or small storage rooms using 50 to 100 kg plastic bags. The major challenges and constraints to this low level of rice mechanization are fragmented farm holdings, poor marketing channels, a lack of awareness of pre-harvest management and utilization, a scarcity of pre-and post-Harvest technologies, lack of finance and a lack of hiring service providers, an inte(n)81 567.36 527.71 Tm[() TJETB1tion o5ETB0.93333 0 0 1 5-6(d) T3(m