

Assessment on Postharvest Losses along Supply Chain and Effect of Different Storage Conditions on Grain and Seed Quality of Sesame (*Sesamum indicum* L.)

Background

Sesame seeds can be year-round produced in Myanmar. It is an economically important not only for edible oil but also for export seeds. Postharvest loss (PHL) is increasingly recognized as part of an integrated approach to realizing agriculture's full potential to meet the world's increasing food and energy needs.

Objectives

1. To determine farmers perception and knowledge about postharvest handling practices of sesame
2. To examine the extent of postharvest losses of sesame along supply chain in different growing seasons
3. To investigate the effect of different types of packaging materials, storage environments and storage period on the grain and seed quality of sesame



Team Members

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Achievement (August 2016 to May 2017)

- Survey for postharvest practices of participants along supply chain was conducted in Pwintphyu in September 2016 and in Pakokku in January 2017.
- Postharvest losses assessment was done in Pwintphyu in July 2016 and in Pakokku in December 2016.
- Storage experiment in laboratory was finished in May 2017.

Plan of research activities

Assessment of the sesame farmers' practice and perception on postharvest technology (2016 August and 2017 January)

Assessment on postharvest losses in sesame (2016 July to 2017 August)

Effect of different packaging materials and storage conditions on grain and seed qualities of sesame (2016 July- 2017 March)

Expected output

The study will provide information about the farmers' handling practices and their perception on postharvest technology of sesame and the extent of postharvest losses of sesame along supply chain in different seasons.

The suitable packaging materials, storage duration and environment will be pointed out to reduce quantity and quality losses of

Expected outcome

At the end of each research, papers will be published as PhD thesis, domestic or international papers. The results will be used to get the good quality seed at the farmers' farm and to share the postharvest losses information of sesame in Myanmar.