

Study on bean combine:2. Improvement tests of proto-type
of bean combine with application in the field.

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Abstract

This proto-type of bean combine was belong to a track type with 13 HP of engine. This machine size is 360 cm in length, 150 cm, in width, and 170 cm in height.

The working efficiency of machine was about 10 hours per hectare by one worker. It was more suitable to harvest for soybean and adzuki bean because it could be separated the seeds into the bag and stems will be fallen down on the ground. The loss of seed was 2-4% and damage was 0.5-0.8%. The efficiency of the machine was affected by water content of bean, different kinds of bean and climatic factors. It suggested that the best harvesting time was from 10 a.m. to 5 p.m..