ABSRACT

STORABILITY TEST OF JENGKOL (Pithecellobium lobatum) SEED
BY USING SOME STORAGE MEDIA

By:

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Jengkol (Pithecellobium lobatum) is one of MPTs that is included of Fabaceae Family. Jengkol seed is counted as recalcitrant, which is could not defend it is viability when it is stored at low temperature and humidity. The study aims were to determine the effect of storage time and storage media to storability of jengkol seed, storage media effective to maintain the jengkol seed viability, and the interaction between the storage media and the storage time to jengkol seed. The research design of factorial (3 x 4) in a completely randomized was employed as a research method. The first factor was the storage time (T) which was consisted of T₀ (without storage), T₁ (2 weeks of storage), T₂ (4 weeks of storage), and T₃ (6 weeks of storage). Second factor was storage media (M) which was consisted of M₀ (without storage media), M₁ (sawdust storage media), and M₂ (rice husk storage media). For each combination treatment was repeated 3 times. Each unit of experiments consisted of 40 seeds. The observed variables were germinated seeds in storage, the number of germinated seed, avarage day to germination and germination power. Bartlett test was used to figure out the homogenity of datas. Varians analysis was used to see if there was at least one significan treatment.
The smallest significant differences test was used as further test. The entire data were tested on 5% significant level. The results showed that storage of jengkol seed using rice husk for storage media with storage time of 6 weeks gave the best effect for maintaining the shelf life of the seeds. The most effective media to maintain the viability of jengkol seed is rice husk which can defend the jengkol seeds viability up to 6 weeks of storage.

Keywords: jengkol, germination, storage media, storage time.