The Germination of Hot water treated and Untreated Verano Stylo Seeds Stored at Different Periods and Conditions

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Abstract

The Verano Stylo seeds, untreated and treated by hot water (80 °C, 10 min) were stored in paper and plastic bags under room temperature at Khon Kaen Animal Nutrition Research Centre (During Apr. 1986-Apr. 1988) to determine their storage life. Germination and moisture content of the seeds were measured every 3 months during the storage period. The results showed that treated seeds gave about 7-8 fold increases in germination. The treated seeds after air drying retained high germination (60 %) for 15 months when stored in paper bags. The germination was extended to 21 months when stored in plastic bags. At the end of storage period, the germination of treated seeds stored in paper and plastic bags were reduced to 24 and 55 % respectively, due to increasing of seed moisture content during the wet season.

For the untreated seeds stored in either paper or plastic bags, the germination were low (average 8 %). However, the seeds did not lose their quality with high percentage of seed viability and low level of seed moisture content throughout the storage period.

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