063 - SEED LONGEVITY CHART TO PREDICT STORAGE OF MAIZE SEEDS. **C. Andreoli** * (EMBRAPA - CNPMS, Sete Lagoas, MG).

RESUMO - Equations for predicting seed longevity in storage have been improved and simplified, which it is given by the model $V_t = V_i - t_{gb}.p$, so that they are more accurate over a wide range of storage environments. This modified equation has been incorporated into a seed viability chart for maize (*Zea mays* L.) which may be used to predict percentage viability of any seed lot in any opened storage condition. From data of five maize seed lots stored in Sete Lagoas, MG, Brazil, the value of the storage condition (s) was calculated. This value (s = 121 days) which was calculated from t_{gb} = 0,00826, corresponds to the time taken in days for the germination of a maize seed lot to fall to certain value during the aging test at 42°C and 100%RH. Based on this data, a longevity chart was made, which illustrates the relationship between the initial germination and storage condition over time. To use the chart, place the value of Vi, determined by a single standard germination test involving 400 seeds, on the left of vertical axis (scale a) and EP value on the right (scale b). Place the ruler on this scale and move until find the value of s (scale c). Finally, connecting this value with the initial quality (germination test) and drawing a line, the viability of a seed lot over a period of time would be predicted at temperature and RH conditions variable in Sete Lagoas, MG. Application of the seed viability chart to short-term seed storage for seed production and long-term seed storage for genetic conservation will be discussed.

Palavras-chave: vigor, storage, viability equation, aging

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064 - DETERMINAÇÕES PRELIMINARES DA QUALIDADE DE SEMENTES DE ARROZ DURANTE O BENEFICIAMENTO. **W.B. Peres** *; **D.M. Moraes** (UFPEL, Pelotas, RS); **F.F. Caldeira; R. Cichota** (UFPEL - EAg, Pelotas, RS).

RESUMO - Os objetivos da presente pesquisa foram o de determinar os efeitos das etapas do beneficiamento sobre a qualidade de sementes de arroz. A qualidade foi avaliada através do teste de germinação, primeira contagem da germinação e da condutividade elétrica (três e 24 horas), após passarem pela máquina de ar e peneiras e pelo conjunto de máquina de ar e peneiras mais cilindro separador. Os resultados obtidos mostraram que a passagem das sementes através das máquinas de beneficiamento tiveram melhor qualidade em relação a testemunha. No entanto, não foram observadas diferenças de qualidade entre as sementes que passaram apenas na máquina de ar e peneiras e naquelas que passaram no conjunto máquina de ar e peneiras mais cilindro separador

Palavras-chave: qualidade, seleção, arroz

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