

Las semillas de *Alnus glutinosa* (L.) Gaertn: estudios sobre mejora de los procesos germinativos.

ABSTRACT

We have conducted studies in common alder seeds (*Alnus glutinosa* (L.) Gaertn.) with pretreatment stratification in wet and cold medium (5° C), cold water and gibberellins, which interrelate with different photoperiods and temperatures on seed lots from three points of the Iberian Peninsula (Salamanca, La Rioja and Avila).

The tetrazolium test was made to observe the percentage of viable seeds, however, this test has not proven effective for these seeds. So that viability, dormancy, seed activity and germination rate were calculated through germination results obtained. The results obtained highlight the germination percentages of the populations of La Rioja and Alba de Tormes, with 82 and 53% respectively. Good results are obtained both at 22 ° C with constant light and with the light photoperiod and temperature (25 ° C 12h light and 12 hours dark 20 ° C). Note the role of gibberellic acid (2 mg / l) improving the germination, especially at 22 ° C with constant light, and cold (5°C) for 20 days to get the best results. Also takes into account survival plantlets greenhouse during the experiment, the pretreatment with 5°C during 20 days reached a 100% in the photoperiod.

Key words: alder, germination, viability, dormancy, giberellic acid, stratification.