

## EFFICIENCY OF SEED PRODUCTION AND CONE SIZE OF *ABIES NUMIDICA* DE LANNOY IN PLANTATION

M. ILLOUL-HACHI<sup>1</sup> A. DERRIDJ<sup>2</sup> & B.FADY<sup>3</sup>

<sup>1,2</sup>Département d'Agronomie, U.M. Mammeri de Tizi-Ozou, Algérie

<sup>3</sup>Institute National de Recherche Agronomique, URFM d'Avignon, France

### ABSTRACT

Total seed number /cone, proportion of filled seeds/cone, cone size (diameter, length) and weight are used to evaluate the seed production of *Abies numidica*.

Total number of seeds/cone ranged between 572 - 98 (2000), 410 - 223 (2001) and 459 -251 (2002). The filled seed rate varying between 70 -194 (2000), 72 - 205 (2001) and 58, 18 -233 (2002). The number of reproductive equivalent N (27.56) is the highest in 2000 and the production is high but the proportion of filled seed is the lowest. The SEF (47, 37) is highest in 2002.

Seed production is variable between years and trees, the production is continuous on 03 years or there is an alternation in years or the production is limited to 2000.

Cone length, cone weight and total seed /cone and weight of filled seed are significantly correlated. The diameter of cone is significantly correlated with the rate of filled seed

**KEYWORDS:** Cone, Efficiency, Seed Production, Year, Tree