EUCALYPTUS VIMINALIS

INTA

CIRN

CENTRO DE INVESTIGACIÓN
DE RECURSOS NATURALES

EUCALYPTUS VIMINALIS

The National Institute of Agricultural Technology (INTA) owns a Genetic Breeding Program for Eucalyptus viminalis (E. viminalis). This genetically improved seed has been marketed since 2019 by INTEA S.A. (Agricultural Technology Innovations S.A.).

The first provenance and progeny trials of E. viminalis were planted in 1971 by INTA at two sites, in the north of Buenos Aires Province. These trials included 22 Australian origins, covering most of the natural distribution area of E. viminalis as well as 19 open-pollinated (OP) families of selected trees within Argentine territory. These trials provided the first promising data for the application of this species, with some origins showing good performance, which would later be used in the breeding program. Given its excellent growth rates, adequate resistance to frost and high-quality wood for its use in cellulose and fiberboards, E. viminalis is presented as an alternative for planting in the Pampas region.

In 1995, INTA introduced new seed lots for its breeding program. These new trials included 148 OP families from thirteen Australian origins and local selections of E. viminalis. From 1998 to 2000, seven provenance and progeny trials were installed in different environments of the Province of Buenos Aires, from Hurlingham (located to the north) to Coronel Pringles and Guaminí, situated 500 km further to the south. The variables evaluated were survival, height, diameter, stem straightness, bark thickness and wood density (indirectly through Pilodyn penetration), taking into account growth and form variables for selection. INTA currently has a Seed Production Area (SPA) and a Seedling Seed Orchard (SSO).

APS (Seed Production Area) 218 B: from a seed stand implanted with bulk material from Warburton (Australia), which had good performance in different trials installed in the 70s by INTA, a phenotypic selection of volume and form was conducted and 46 specimens were chosen.
Location: Castelar, Province of Buenos Aires.
Altitude: 10 meters above sea level – Precipitation: 1200 mm/year

HSP 457 B: this progeny seed orchard was registered at the National Institute of Seeds (INASE) in 2019 and it is formed of genetic selection, using survival and growth as variables. It is made up of 266 genotypes from an original population of 1288 individuals that are part of 56 families, with thirteen Australian and two Argentinean origins. The estimated genetic gain for growth is 15.5% and 32.2% for survival.

SALES

INTEA S.A. produces and commercializes the improved seed of INTA's Genetic Breeding Program in its different products:
Bulk of pure pelleted seeds
Bulk of pure seeds
Bulk of concentrated seeds
Bulk of seeds with paraphysis
Bulk of selected families

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