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FIELD TRIALS NETWORK – PIRINOBLE PROJECT (www.pirinoble.eu)

Work Package A: Ecology of valuable broadleaved species: adaptation of 12 vegetative materials to a range of sites in Eastern Catalonia

Sant Martí de Llèmena (Girona) – March 2010

J. COELLO, M. PIQUÉ, Sustainable Forest Management Unit, CTFC, 2010

Field trial aim: To study the adaptation of different valuable broadleaved species at various sites of Eastern Catalonia.

Experimental design: Randomized block design, 12 treatments (each species); 6 trees per treatment, 3 repetitions. Total: 72 trees (all experimental). This field trial is integrated into a network of 8 similar plantations.

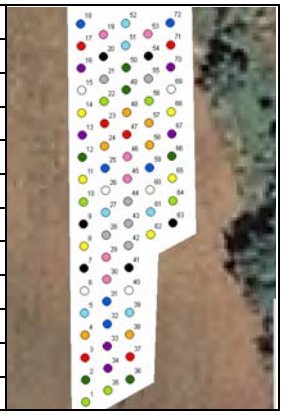
Total area: 0.1 ha

Field trial at planting time

Field trial location in Catalonia

Vegetative materials

Field maple (*Acer campestre*) Macizo pirenaico (pale blue)
Sycamore maple (*Acer pseudoplatanus*) Prepirineo E-576-09 (pale green)
Hackberry (*Celtis australis*) Sistema ibérico (grey)
Wild cherry (*Prunus avium*) Macizo pirenaico (orange)
Narrow-leaved ash (*Fraxinus angustifolia*) Valle del Ebro (white)
Ash (*Fraxinus excelsior*) Macizo pirenaico (pink)
Hybrid walnut (*Juglans x intermedia*) MJ-209xRa (red)
Common walnut (*Juglans regia*) Clon Po-6 (IRTA) (purple)
Common walnut (*Juglans regia*) Clon SB-13 (IRTA) (yellow)
Pear tree (*Pyrus communis*) Sistema ibérico (dark blue)
Service tree (*Sorbus domestica*) Sistema ibérico (dark green)
Wild service tree (*Sorbus torminalis*) Sistema ibérico (black)



Site features

UTM coordinates (N31)	Altitude	Temperatures: coldest month / annual / warmest month	Annual precipitation
474 495; 4 652 200	206 m	6.5 / 14.2 / 22.9 ºC	888 mm

Soil type	Previous land use
Loamy texture / pH 7.34 / O.M.: 2.12%; Conductivity: 0.062 dS/m (non limiting) / N: 0.174% / C: 1.24% / Insufficient elements: Ca (9.10 meq/100gr)	Abandoned arable field

Plantation techniques and tending operations

Soil preparation	Sub-soiling 30 cm depth, manual hole digging
Planting scheme	3.5 x 3.5 m
Plantation techniques	Plastic mulching (1 m^2), tree shelter (60 cm)