



REPORT ON THE SUITABILITY FOR PLANTING EUCALYPTUS

INTRODUCTION

The Eucalyptus species reviewed for this report (E. Urophylla, E. Urograndis and E. Grandis) have as one of their principal characteristics their hardiness and extreme adaptability, which allows them to grow in very diverse environmental conditions. However the goal of the project is the production of timber suitable for torrefication and similar applications, with the necessary dimensions for processing which result in effective harvests. These requirements fit perfectly for plantations established in the Eastern region of Pará, possessing characteristic climatic, rainfall, soil, among other similarities that show total suitability for plantation projects based in Margem Esquerda do Igarape Arauai acquired in the municipality of Capitão Poço state of Pará.

CHARACTERISTICS REQUIRED FOR THE PLANTING OF EUCALYPTUS

For the perfect development of a Eucalyptus plantation, exploring the geological and soil characteristics are essential, and the environment must have annual rainfall varying from 1,245 to 2,500 mm, a dry period of three to five months should coincide with a period of lower temperatures. The average Annual temperature should be 22C, but remember that periods of heat favour the growth of Eucalyptus as it is an essential part of its lifecycle.

Researchers have found that the Eucalyptus seedlings grow best in daytime temperatures of 27C to 36C and night temperatures of 22C to 31C, which are characteristics similar to those found in eastern Pará, in the municipality of Capitão Poço. The ideal soil for growing Eucalyptus shall be of the clayey-sandy type, with deep strata, permeable and with reasonable capacity of water retention. Fertility parameters should have a median or higher indication of fertility above 50% and a pH greater than or equal to 5.5.

ENVIRONMENTAL FEATURES OF THE 208 HA FARM LOCATED IN CAPITÃO POÇO IN THE STATE OF PARA

The farm Fazenda Boa Sorte has soil of the sandy-clay type, a humid tropical climate (Köppen Classification) with temperatures ranging from 25C to 27C and having maxima of 34C, with a minimum of 21C, and having pluviometric index of 2.200 to 2.500mm. Its predominance in soils having sandy clay provide good permeability and pH around 5.7.

CONCLUSION

The Margem Esquerda do Igarape Arauai the municipality has the characteristics of Capitão Poço ideal for the maximum exploitation of specie E. Urophylla, E. Urograndis and E. Grandis, fitting perfectly the environmental characteristics. We would predict that a six year growing cycle at the planting density of 1,600 trees per Ha should produce in excess of 170 Metric Tonnes per Ha of processable timber.


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