

Abstract Details

Title: Mapping of Strip Plantations using Remote Sensing and GIS in Barwala Block, Panchkula

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Abstract: This strip plantation part of Trees outside forest (TOF) along the roads, canal, river, farm bunds which are appear as linear feature in the image. Strip plantation area could not be computed. The length of the strips was measured. This class is categorized under well stocked, under stocked trees and further under tall, short, discrete and scattered on the basis of tree attributes. These are planted along the road sides and mapped under different categories on the basis of their attributes. The present study was carried out in Barwala block of Haryana to assess the existing strip plantation. The study was conducted on 1: 10,000 scale using high resolution satellite data of CartoSat-1 for the year 2009. Onscreen digitization technique in Arc GIS was followed to demarcate the existing Trees outside Forest. TOF was 93.02 sq.km which constituted 39.56% of the study area, respectively. It was also assessed that the total length of strip plantation along canal, roads, river was 282.13 km in the block and the Populus deltoids and Eucalyptus hybrid were found the dominated tree species.

Keywords: Strip Plantations, Tree outside Forest, Remote Sensing, Cartosat-1.