

# **DELIMITATION AND K COEFFICIENT MAPPING FOR BA BICH BASIN, HAM THUAN NAM DISTRICT, BINH THUAN PROVINCE**

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## **Summary**

This paper represents the methodology and results of basin boundary delimitation and K coefficient mapping based on the combination including forest status map, field surveys point, administrative boundary map and DEM map. ArcGIS 10.3 software was applied to delineate basin boundary and using Mapinfo to establish K coefficient map for each forest plot. As a result, a K coefficient map has been established with total area of 7,891.5 ha for Ba Bich basin in My Thanh Commune, Ham Thuan Nam District and Duc Binh Commune, Tanh Linh District, Binh Thuan Province and classified 4 levels of payments for forest environmental services (PFES): high, medium, low and none. The results shows the K coefficient map is the effectiveness tool to support the calculation of the level of PES for forest owners in the basin.

**Keywords:** *Map, PFES, K coefficient, basin.*