

عنوان مقاله:

The feasibility of ash and spruce forest plantations in the Northeast of Iran

محل انتشار:

مجله تحقيقات منابع زيست محيطي, دوره 9, شماره 1 (سال: 1400)

تعداد صفحات اصل مقاله: 13

نویسندگان:

A. Bagherzadeh - Department of Agriculture, Mashhad Branch, Islamic Azad University, Mashhad, Iran

A. Gholizadeh - Department of Agriculture, Mashhad Branch, Islamic Azad University, Mashhad, Iran

F. Alizadeh Motaghi - Department of Soil Science and Engineering, Faculty of Agriculture, University of Maragheh, Iran

خلاصه مقاله:

In the present study, the feasibility of planting ash (Fraxinus excelsior L.) and spruce (Picea abies L.) tree species was investigated for rehabilitation of the Torog Watershed in the northeast of Iran. The estimated land suitability indices ranged from YM.9a to Y1.0a, and YY.FY to F9.MA for ash and spruce plantations by parametric approach, categorized into moderately suitable (SY) in the east to not suitable (N) in the middle and western parts of the study area. The values of land indices by the AHP approach varied between ٣۵.۴۵ to ٩۴.٠٩ and ٣۴.۶γ to λ٣.٩λ for ash and spruce plantations ranging from highly suitable (S1) in the east to moderately suitable (SY) in the middle and scattered parts in the east and not suitable (N) in the north and southwest of the basin. The results showed that the most important limitations were climate, elevation, soil depth, and soil texture. The regression coefficient (RY) of land suitability indices between parametric and AHP approaches for the two spices was o.A9F and o.A9F respectively. The results of the two models revealed that the moderately suitable class SY is dominant for ash and spruce plantations in the eastern parts of the basin, while the middle and western parts of the basin were not suitable for plantation of the trees. The findings of this study may help land-use planners to rehabilitate the watershed by expanding forest plantation which .ecologically tolerates extreme conditions of the region

کلمات کلیدی:

land suitability, Ash, spruce, Zonation, GIS

لینک ثابت مقاله در پایگاه سیویلیکا:

https://civilica.com/doc/1254128

