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Kenderes et al. (2008)

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Kenderes Kata

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Összefoglalás:

Thirty years of gap dynamics in a central european beech forest reserve

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Summary

Investigation of gap characteristics and tree regeneration patterns is central for our understanding of forest dynamics. By integrating aerial photograph analyses and ground surveys, we provide a study of long-term canopy gap dynamics and tree regeneration patterns in a Hungarian beech forest reserve. We found (1) that in spite of the overall increase of gap area during the investigated 30-years (from 2.5 to 7.7 per cent), total gap area and average gap size (40-93 m²) were remarkably similar to those found in other temperate and tropical forests, (2) if the fate of individual gaps was followed, two to three times more intensive canopy dynamics (gap creation, closure and expansion) could be recognized than simple change of gap area indicated, and (3) average seedling density was considered to be sufficient for natural regeneration. However, it was apparent that recent increased deer browsing had prevented establishment of younger trees of 1-2 m in height, as taller saplings were recorded only in old gaps. Our results not only provide useful information on forest dynamics but can also contribute to understanding the potential roles that small forest reserves can play in providing essential reference data for nature-based forest management of this forest type.

élőhely: gyertyános-tölgyesek, bükkösök

erdődinamika, lékdinamika, szukcesszió

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Megjegyzések:

Thirty years of gap dynamics in a central european beech forest reserve

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Tartalom címszavakban

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The gap characteristics in the four study years

Processes of canopy dynamics
Regeneration
Discussion
Canopy dynamics
Regeneration
Practical implications
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References
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