

عنوان مقاله:

Monitoring the Impacts of City Sprawling on Urban Agriculture Lands; The Case of Hamadan City, Iran

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خلاصه مقاله:

While the issue of healthy and nutritious food provision for all has become one of the major challenges of global development, urban sprawl increasingly threatening the urban and peri-urban agriculture. However, urban agriculture is one of the most efficient policy to environmental protection, urban resilience and promotion of food security, particularly for poor urban residents. Accordingly, through the analysis of satellite images, using the GIS and remote sensing tools, this paper quantifies the LUCC and urban growth that occurred between ۱۹۸۴ and ۲۰۱۴ in the Hamadan city. It also simulates future urban growth, using CA-Markov Chain Model. The results revealed that urban sprawl over the ۱۹۸۴-۲۰۱۴, led to loss of ۳۱۹۹.۵ha of orchards, irrigated and irrigated agricultural lands in Hamadan city. Our simulations suggest that this unsustainable trend will be continued up to ۲۰۲۴. This trends not only threatens urban food security but also will lead to excessive car dependence, poverty increase, loss of local jobs, more pollutions and GHG emission, and result in a decline of city livability. The policies relying on compact city approach, establishing .green belt and directing the new growth demand to satellite towns should be advocated

کلمات کلیدی:

Agriculture lands Hamedan city Land use/cover change Urban sprawl

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