

Research Article

Effects of Pesticides on Aquatic Fauna: A Literature Review

Efectos de los Plaguicidas Sobre la Fauna Acuática: Una Revisión Literaria

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Abstract

The excessive use of pesticides produced by agriculture, industry and anthropic activities generates negative effects on the environment and human beings. These chemical substances reach rivers and lakes through runoff or leaching and groundwater through infiltration. The objective of this study was to identify the effects caused by pesticides on aquatic fauna through a bibliographic review in order to provide recommendations for improvement and future surveys. The methodology used was based on a bibliographic review that subsequently allowed the information collected to be analyzed and presented in tables and arguments to propose recommendations for improvement. The main results indicate that in aquatic biota, pesticides reduce phytoplankton, cause problems in the functioning of aquatic species and in the worst case a decrease in the population. On the other hand, humans are also affected through the consumption of contaminated species. Finally, the study concludes by considering that the reduction and adequate management of pesticides can be carried out through the replacement of pesticides by the chemical substance produced by garlic, social awareness, regulatory policies that are applicable, monitoring and evaluation that allow obtaining information to subsequently generate alternatives for improvement against pesticide contamination.

Keywords: ecotoxicology, aquatic ecosystem, pollution, aquatic species, pesticide.

Resumen

El uso desmedido de plaguicida producto de la agricultura, industria y actividades antrópicas generan efectos negativos sobre el ambiente y el ser humano. Estas sustancias químicas llegan a los ríos y lagos por la escorrentía o lixiviación y a las aguas subterráneas por infiltración. El objetivo de este estudio se centró en identificar los efectos causados por los plaguicidas sobre la fauna acuática mediante revisión bibliográfica para conferir recomendaciones de mejora y prospecciones futuras. La metodología utilizada se basó en una revisión bibliográfica que posteriormente permitió analizar la información recolectada y presentarla mediante tablas y argumentos para proponer recomendaciones de mejora. Los principales resultados indican que en la biota acuática los plaguicidas disminuyen el fitoplancton, producen problemas en el funcionamiento de las especies acuáticas y en el peor de los casos una disminución en la población. Por otro lado, el ser humano también se encuentra afectado mediante el consumo de las especies contaminadas. Finalmente, el estudio concluye considerando que la reducción y adecuada gestión de plaguicidas se puede llevar a cabo mediante reemplazo de plaguicidas por la sustancia química producida por el ajo, concientización social, políticas de regulación que sean aplicables, monitoreo y evaluación

Pesticides And Fresh Water Fauna

Joacim Rocklöv



Pesticides And Fresh Water Fauna:

Unveiling the Power of Verbal Artistry: An Emotional Sojourn through **Pesticides And Fresh Water Fauna**

In some sort of inundated with monitors and the cacophony of fast conversation, the profound energy and psychological resonance of verbal art often disappear in to obscurity, eclipsed by the continuous onslaught of noise and distractions. However, nestled within the lyrical pages of **Pesticides And Fresh Water Fauna**, a fascinating work of literary splendor that impulses with organic thoughts, lies an unforgettable trip waiting to be embarked upon. Penned by a virtuoso wordsmith, this exciting opus guides viewers on a mental odyssey, softly exposing the latent potential and profound affect stuck within the complex web of language. Within the heart-wrenching expanse of the evocative analysis, we can embark upon an introspective exploration of the book is key styles, dissect its captivating publishing type, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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