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Silk and Sustainability: Integrating Sericulture in Agroforestry for Climate Resilience

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Abstract: *This review paper examines the environmental, social, and economic aspects of integrating sericulture into agroforestry. From an environmental perspective, the presence of silk-producing plants in agroforestry systems improves soil health, increases biodiversity, and enhances carbon sequestration. These benefits contribute to the overall sustainability and resilience of agricultural landscapes, mitigating the impacts of climate change. On a social and economic level, integrating sericulture into agroforestry provides opportunities for income diversification, employment generation, and improved livelihoods for rural communities. The additional income from silk production can help farmers cope with climate-related risks and uncertainties, reducing their vulnerability. The paper emphasizes the importance of adopting innovative and sustainable approaches to address the challenges posed by climate change and promote sustainable development in the agricultural sector. It highlights the need for further research, knowledge sharing, and collaborative efforts to unlock the full potential of integrating sericulture in agroforestry and pave the way for a more sustainable and resilient future. In conclusion, the integration of sericulture in agroforestry systems holds great promise for enhancing climate resilience, promoting sustainable development, and improving livelihoods. By harnessing the synergies between silk production and agroforestry practices, we can create resilient agricultural systems that benefit both the environment and rural communities. It is imperative to prioritize further research, knowledge sharing, and collaborative efforts to unlock the full potential of this integration and pave the way for a more sustainable and resilient future.*

Keywords: Silk, Sericulture, Agroforestry, Climate Resilience, Sustainable Development

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