

Impact on Paddy Cultivation and Policy Recommendations

Impact on Paddy Cultivation – Key Points

- Paddy cultivation in Pannala DSD is declining due to rapid land use and land cover (LULC) changes.
- Major causes include:
 - Urbanization
 - Industrial expansion
 - Deforestation
 - Climate variability
- If these trends continue, paddy lands will further decline by 2030 and 2040.
- Consequences include:
 - Threats to food security
 - Loss of farmer livelihoods
 - Reduced agricultural productivity

Need for Public Awareness – Key Points

- Many communities are unaware of the long-term damage caused by converting agricultural land.
- Awareness programs should include:
 - Educational campaigns via websites and social media
 - School and community-based awareness sessions
 - Promotion of sustainable land use practices
- Informed citizens are more likely to support policies that protect paddy lands.

Policy Recommendations – Key Points

- Implement strict land zoning laws to protect paddy cultivation areas.
- Provide incentives for farmers practicing sustainable agriculture.
- Enforce penalties for illegal land conversion from agriculture to non-agricultural uses.
- Use GIS and remote sensing to:
 - Monitor land use changes
 - Identify vulnerable areas
 - Support planning and decision-making
- Promote collaboration between:
 - Farmers
 - Local authorities
 - National policymakers
 - Environmental organizations