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LINKS BETWEEN ILLICIT CROPS AND ENVIRONMENTAL DAMAGE,
FROM THE PERSPECTIVE OF
ALTERNATIVE DEVELOPMENT IN PERU



74th Regular Session of the Inter-American Drug Abuse Control Commission (CICAD/OAS)



LINKS BETWEEN ILLICIT CROPS AND ENVIRONMENTAL DAMAGE, FROM THE PERSPECTIVE OF ALTERNATIVE DEVELOPMENT IN PERU



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DEFORESTATION FOR COCA CULTIVATION



- Fragmentation of forests, loss of landscapes, and loss of carbon sinks.
- Loss of biodiversity and its habitat (plants, animals, fungi, protists, and monera).
- Loss of economic assets in timber and non-timber products.
- Loss of environmental services.
- Changes in land use: from forestry to other socioeconomic activities.
- Environmental vulnerability to the effects of climate change.
- **Ecosystem degradation and desertification.**







Source: Ministry of Culture, 2019.



SOIL DEGRADATION FROM COCA CULTIVATION



- Accelerated soil erosion due to torrential rains.
- ❖ Leaching of soil nutrients by rainfall and flooding.
- Soil contamination by frequent and intense use of agrochemicals (herbicides, fertilizers, insecticides, fungicides).
- Loss of organic matter from soils due to leaching and overexposure to the sun (four harvests per year).
- ❖ Soil degradation and desertification.
- ❖ Abandonment of the coca plot after the tenth year.
- Slow process of natural regeneration over several decades.











ENVIRONMENTAL CONTAMINATION DURING COCAINE PRODUCTION

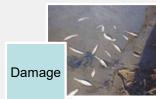


- Dumping of precursor chemicals during cocaine production: fuels, solvents, inorganic acids, highly toxic bases and salts.
- Change in the chemical reaction of water toward acidity (pH), affecting biodiversity.
- Dissolution of aquatic species' protective mucilaginous layer, leading to death.
- * Rising heavy metal levels in water due to the dissolution of inorganic acids, limiting water consumption for humans and animals.
- * Reduction of inland fisheries, limiting the population's food supply.











ENVIRONMENTAL EXPERIENCES FOR PREVENTION AND MITIGATION



Environmental education

- ☐ Raising public awareness about environmental risks.
- ☐ Training and support for community management to protect ecosystems.
- ☐ Training for the sustainable use of the environment.



Good environmental practices

- ☐ Environmental impact assessment.
- ☐ Solid waste and effluent treatment.
- Production of organic fertilizers.
- Preventive management of agrochemicals.



Agroforestry

- Agroforestry training.
- Agroforestry nurseries to produce seedlings.
- Planting and maintenance of the agroforestry system.



Reforestation

- □ Reforestation projects for the recovery of degraded ecosystems.
- ☐ Financial management.
- Executed by local governments.
- ☐ Monitoring and evaluation.



CHALLENGES AND CONSEQUENCES

Challenges

Consequences

Achieving the maximum sustainable use of primary forests.	Use of non-timber forest resources (bio-businesses, handcrafts, medicinal plants, tourism).
Achieving the best use of water with aquaculture activities.	Self-supply of fish for consumption and trade.
Greater productive diversification to ensure environmental and economic sustainability.	Improvement of agroforestry systems in harmony with forest architecture.
Environmental and quality certifications for alternative products	Assured access to domestic and export markets.
Compensation for increased reforestation and agroforestry.	Entry into the carbon credit market.

