

Jan 1989

DF: GX

Afforestation

Sustainable agriculture

No aid to countries that use > 20% of GDP for military

Food for World

Sustainable Development

Irrigation

debt for nature swap

cash crops

biodiversity

- 1) interruption of nutrient cycle for soils
- 2) ~~interruption of~~ diminution of vegetative/forest cover
- 3) increase in albedo
- 4) increase in atmospheric dust
- 5) alteration of hydrologic cycle
- 6) degradation of soil moisture holding capacity
- 7) alteration of atmospheric chemistry
- 8) starving of regional seas due to changes in runoff
 - Gulf of Mexico
 - Coral Sea

- 1) Mike Lofchie (UCLA)
- 2) Mike Sitrizigator (UCLA)
- 3) USSR (?)
- 4) Odinson (Nairobi)
- 5) Sanders (Pearlree)
- 6) Randolph Kent
- 7) Jim McCann
- 8)

Look at AID's new categories of recipients

- Most Needy
- Graduated Developing
- ETC.

Which one are contributing to GX Env. change?

GX is basically an irreversible trend resulting from the development and expansion of civilizations and the rise and fall

on time scales important to particular civilizations, cultures (decades, centuries) The process is almost an irreversible one. The goal should be to slow down rates of change (or transformation)

Q Did Net Wolman ever complete the land transformation project?

UNEP, WMO and NSF/OCD and World Bank OIES, Corp. Affiliated(?)

Recommend a Symposium supported by AID on GX and Development (or a set of Seminars at NCAR in Summer 1990) - as training vehicle for AID + Academic community + 3rd World

could discuss cx + dev., GX + devel; cx change, seasonal forecasting users ENSO, etc. seasonality



no regrets route

land clearing, forest/bush fires, cash crop preference

- arid lands
- forest lands
- wet lands
River, basin
flat lands
MT. desert

1st Focus Africa
2nd ASIA
3rd L.A.
4th Post Run

2nd year deeper case time MTHG

250K (100 2 wk seminars)

21 Seminars	
7 AID 710K x 2	20
7 Acad 5	
7 foreign 12K x 2	24
3 MOS MTHG (25K)	25
3 months Sec'y (15K)	15
Spec. Speakers	5K
1 month PhD	8K
9K wheat	

High level loopers
American
Brookline
Amherst
ment

- deforestation
 - Major Trop. Rain
 - dry Trop. forests
 - firewood gathering
 - logging
- maximization of people off land
- desertification
 - soil erosion (water/wind)
 - Trampling
 - Salinization
 - wood cutting
 - overcultivation
 - Technology (wells)
- dist. mangrove destruction
- Watershed Basin Devel.
- agric. schemes
- arid land development
- ranching schemes
- firewood collection + burning
- no family planning support
- mechanization of farming
- fertile food aid