

Discussion Points for the Integration of SO2 Activities in the Shire River Basin

Prepared by the MEMP Technical Advisor

Monitoring the Impact of Nature Policy Initiatives

1. Collaborative management initiatives in the Phirilongwe/Liwonde/Cape McClear area with the Departments of Land Resources and Conservation, Forestry and Parks and Wildlife.
2. Integrated watershed management and small scale irrigation development with the Departments of Irrigation, Land Resources and Conservation, Ministry of Water potentially in the Rivi Rivi, Lisungwe or Lisanjali catchments.

Activities

1. Summary of NATURE policy initiatives
2. Model Forest Design short term consultancy
3. Integrated watershed management consultancy

Environmental Research and Training for Monitoring

1. Identify environmentally sensitive areas as monitoring sites using biophysical, social and institutional assessments.
2. Continued development of methodologies to quantify and qualify environmental change.
3. Calibration of models such as SLEMSA or modified SLEMSA for Malawian conditions.

Activities

1. Training in erosion hazard modeling
2. Research in large catchment monitoring using digital elevation models, NDVI and Landsat imagery.
3. GIS training in the use of a digital land resources evaluation programme for the Machinga and Blantyre ADDs.
4. Training in monitored data analysis, interpretation and reporting.

Environmental Information System Development

1. Development of a database application to track environmental and natural resource project by geographical location.
2. Evaluation of the causes and sources of soil erosion in the Shire River catchment.
3. Digital mapping products for the Shire River catchment developed.
4. Linkages between targeting interventions and monitoring their impact.

Activities

1. Social analysis in selected environmentally sensitive sub-catchments to provide a basis for explanations on the causes and intervention strategies to help mitigate environmental degradation in the Shire.
2. Review of Prototype Shire River EIS Development

Integration and Implementation

1. Inventory of agroforestry partners in selected environmentally sensitive catchments.
2. Field visits and community consultations.