

# Environment Statistics in GHANA

*Prepared by*

**Peter Takyi Peprah  
Ghana Statistical Service**

**&**

**Michael Pappoe  
Environmental Protection Agency**

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# *Presentation Outline*

- Environmental Quality (EQ)
- Major environmental issues hampering EQ
- Effects
- Statistics on some issues
- Challenges with environment Stats
- Way forward



## *Environmental Quality (EQ)*

- Comprises of state of quality of:

- Air

- Water and

- Land

Which enable life to proceed in a normal way.

# Major environmental issues

## hampering EQ (1)

- Forest depletion/deforestation (2% per yr)
  - Timber harvesting
  - surface mining
  - slash and burn farming system
  - rising demand for fuel wood

# *Major environmental*

## *issues hampering EQ (2)*

- Poor waste management
- Air pollution eg. road traffic & industrial
- Pollution of rivers & lagoons
- Coastal and marine pollution eg. industrial waste
- Indiscriminate springing up of slums in the cities

# Effects

- Desertification
- Effect on water bodies
- Air borne diseases (eg. TB)
- Water borne diseases (eg. River blindness, sleeping sickness, bilhazia, guinea worm, & diarrhea )
- Indoor pollution (eg. smoke from firewood) and
- Spread of other diseases like Malaria & typhoid

# Statistics on some issues (1)

**Table 1: Land use/land cover (2000,CERSGIS)**

<b>Land use Area km2</b>	<b>Area km2</b>	<b>% of total</b>
<b>Agricultural land</b>	<b>146,810</b>	<b>61.50</b>
<b>Forest and wildlife</b>	<b>8,400</b>	<b>3.50</b>
<b>Savannah</b>	<b>47,860</b>	<b>20.10</b>
<b>Shrub Thicket</b>	<b>73</b>	<b>0.30</b>
<b>Built up area</b>	<b>73</b>	<b>0.30</b>
<b>Bare land</b>	<b>12</b>	<b>0.05</b>
<b>Water body</b>	<b>11,800</b>	<b>5.00</b>
<b>Wetlands</b>	<b>954</b>	<b>0.40</b>
<b>Unclassified</b>	<b>1,561</b>	<b>0.60</b>
<b>Total</b>	<b>238,539</b>	<b>100.00</b>

# *Picture showing surface mining in Ghana*





# issues (2)

**Table 2: Progress of reclamation work on various mines (2003)**

<b>Mine</b>	<b>Area disturbed (Ha)</b>	<b>Area reclaimed end of 2003 (Ha)</b>
<b>Goldfields Ghana Ltd (Tarkwa)</b>	<b>1654.00</b>	<b>260.00</b>
<b>Anglogold Ashanti (Obuasi)</b>	<b>2241.00</b>	<b>60.17</b>
<b>Anglogold Ashanti (Bibiani)</b>	<b>298.00</b>	<b>90.00</b>
<b>Anglogold Ashanti (Iduapriem)</b>	<b>1360.00</b>	<b>180.00</b>
<b>Abooso Goldfields Damang</b>	<b>645.00</b>	<b>257.00</b>
<b>Bonte Gold mine</b>	<b>698.17</b>	<b>424.69</b>
<b>Ghana Manganese, Nsuta</b>	<b>2137.00</b>	<b>308.60</b>
<b>Resolute Amansie</b>	<b>348.00</b>	<b>209.50</b>
<b>MED Mining</b>	<b>53.75</b>	<b>11.90</b>

# Statistics on some issues (3)

**Table 3: Source of cooking fuel (%)**

<b>Wood</b>	<b>53.5</b>
<b>Charcoal</b>	<b>30.6</b>
<b>Gas</b>	<b>9.5</b>
<b>Electricity</b>	<b>0.3</b>
<b>Kerosene</b>	<b>0.6</b>
<b>Crop residue</b>	<b>1.1</b>

Source: GLSS 5

# Picture on water pollution

**Plate 4.2: Water hyacinth infestation at Lidja on River Oti**



# Statistics on some issues (4)

**Table 3: Population of water weeds in some reservoirs in Ghana**

<b>Reservoir/ location</b>	<b>Basin</b>	<b>Coverage (%)</b>
Kpong	Volta	35
Barekese/Owabi	Pra	11-40
Weija	Denu	11-40
Kwanyarko	Ayensu	20
Mankessin	Ochi-Amisa	15

**Source: State of the environment (SOE) 2004**

# *Picture showing Lagoon pollution - Industrial*

**Plate 6.3: Polluted Chemu Lagoon in Tema**



Photo credit: Mark Quist

# Picture showing Coastal pollution

**Plate 6.1: Degraded Kpeshie Lagoon, Accra**



Courtesy: EPA, 2001

# *Picture showing Coastal Erosion*

**Plate 6.4: Eroding sandy beach near Volta Delta (Ada Foah)**



Courtesy: Ghana Environmental Sensitivity Mapping Project, 2004

# *Statistics on some issues (5)*

- About 1.5 metres of the coastal land is lost due to sea erosion annually.



# Challenges with

## ***environment Stats (1)***



**Lack of effective collaboration among institutions on collation and compilation of environment statistics**

**Lack of a sound statistical methodology for data acquisition and analysis on environment statistics**

# Challenges with

## ***environment Stats (2)***



**Environment Statistics indicators have not been clearly established for inputs to be directed towards one goal**

**Lack of appropriate networking to strengthen and establish Environment Information system**

# Way Forward

## Activities of NACPUS

The Ghana EPA in collaboration with the GSS and other agencies have started feasibility study on developing environmental indicators for the National environment outlook

# *Way Forward*

**In 2007, Ghana EPA implemented the Imports Control of Chemical materials through the Customs Management System (GCMS) - GCNet (Ghana Community Network) System.**

# *Way Forward*

This system is to gather Data on volumes of hazardous chemicals, mining chemicals, agrochemicals, etc. imported.

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# End of Presentation

- Thanks for your attention!!

