



Environmental Health in Ghana

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Introduction

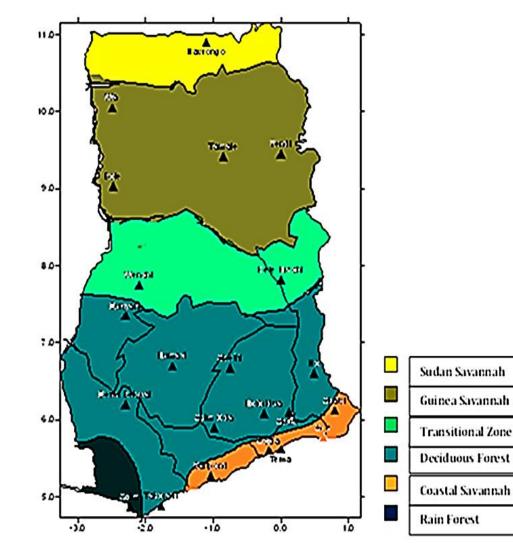
- Environmental health addresses all the physical, chemical, and biological factors external to a person, and all the related factors impacting behaviours. It encompasses the assessment and control of those environmental factors that can potentially affect health (WHO, 2015).
- It is targeted towards preventing disease and creating health-supportive environments
- Environmental health plays an important role in the socio-economic development of a nation.
- Ghana's progress in reversing the loss of environmental resources and improving sanitation (MDG 7) has been slow (Ghana MDGs 2015 Report).
- The country is however still committed to ensuring that renewed efforts are geared towards the achievement of sustainable development as we enter into the era of the **Sustainable Development Goals (SDGs)** with the expiration of the **Millennium Development Goals (MDGs)** by close of 2015.

Country Profile

- Ghana is located between longitudes 3° 15" W and 1° 12" E, and above the in West Africa. It shares boundary with Togo to the East, Ivory Coast to the West and Burkina Faso to the North and the Gulf of Guinea.
- The total area of the country is about 238,539 km² with an Exclusive Economic Zone (EEZ) of 110,000 km² of the sea which forms the territorial area of Ghana. Ghana has a coastline of about 550 km
- The population of Ghana is about 27,670,174 million with the majority of the people living in the southern parts. Life expectancy is 62 years
- Ghana has a warm equatorial climate with mean annual temperatures ranging between 24°C and 36°C.

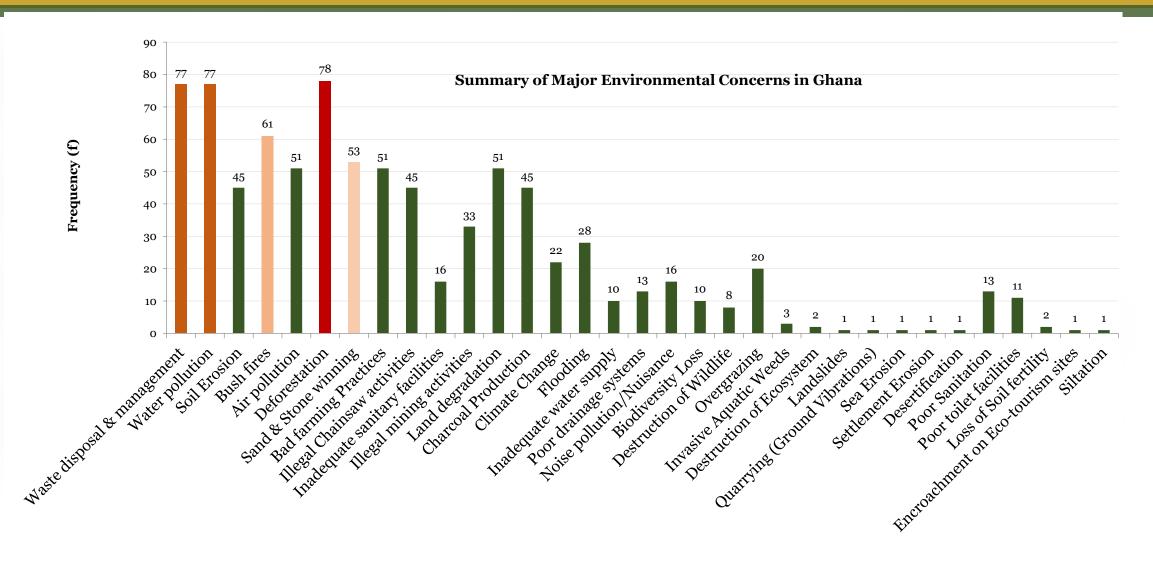
Country Profile-cont'd

- There are five major ecological zones
 - \diamond Rain Forest,
 - ♦ Semi-Deciduous Forest,
 - ♦ Sudan Savanna,
 - \diamond Guinea Savanna and
 - \diamond Coastal Savanna.
- A transitional zone consisting of a mixture of semi deciduous and savanna vegetation tends to occur in between the forest and the savanna.



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Major Environmental Issues



Importance of Environmental Health

- There has been an increasing demand for environmentally related statistics after a Country Environmental Analysis (CEA), 2006 carried out by the World Bank and State of Environment (SoE) Report published in 2004. It is expected that these information would support evidence-based policy making and decisions at all levels
- Increased access to adequate, safe and affordable water, improved environmental sanitation and hygiene education constitute critical components of policy to ensure a favourable state of health of the general population (Ghana Shared Growth and Development Agenda (GSGDA) II 2014-2017.
- In Ghana, some of the critical areas of concern with respect to environmental health include; sanitation, water, waste, and pollution, and their related health implications.
- Environmental sanitation is a major determinant for achieving improved quality of life. All the components of environmental sanitation services taken together have a greater impact on the health of the environment and people than other components.

Current state of Environmental Health

- They are mainly caused through contamination of environmental media (water, air, soil) and food by bacteria, viruses and parasites from poor disposal of refuse.
- In Ghana, malaria is a major cause of mortality and morbidity especially among children under five years and pregnant women. It accounts for about 44.5% of all outpatient illnesses, 36.9% of all admissions and 19% of all deaths in health institutions.
- Among children under age five and pregnant women, malaria accounts for 13.8% of Out Patient Department (OPD) attendance, 10.6% of admissions and 9.4% of deaths.
- Records available also indicate that cholera outbreak in 2014 affected over 23,600 people and was estimated to cost the country not less than US\$13.3 million excluding other economic implications as cost relating to loss productivity.
- Other environmental health-related diseases also include; diarrhoea, Acute respiratory tract infections, asthma, bronchitis, onchocerciasis, etc.

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Policies and Institutional framework

- The Ghana Shared Growth and Development Agenda (GSGDA) II (2014-2017) is the main medium-term development policy framework for Ghana.
- The Ghana Statistics Development Plan
- National Statistics System
- The National Health Policy
- Occupational Health & Safety Guidelines
- National Health Insurance Policy Framework
- National Environmental Sanitation Policy
- National Sanitation Strategy & Action Plan
- District Environmental Sanitation Strategy and Action Plan (DESSAP)
- Rural Sanitation Model and Strategy (RSMS)
- National Environmental Policy

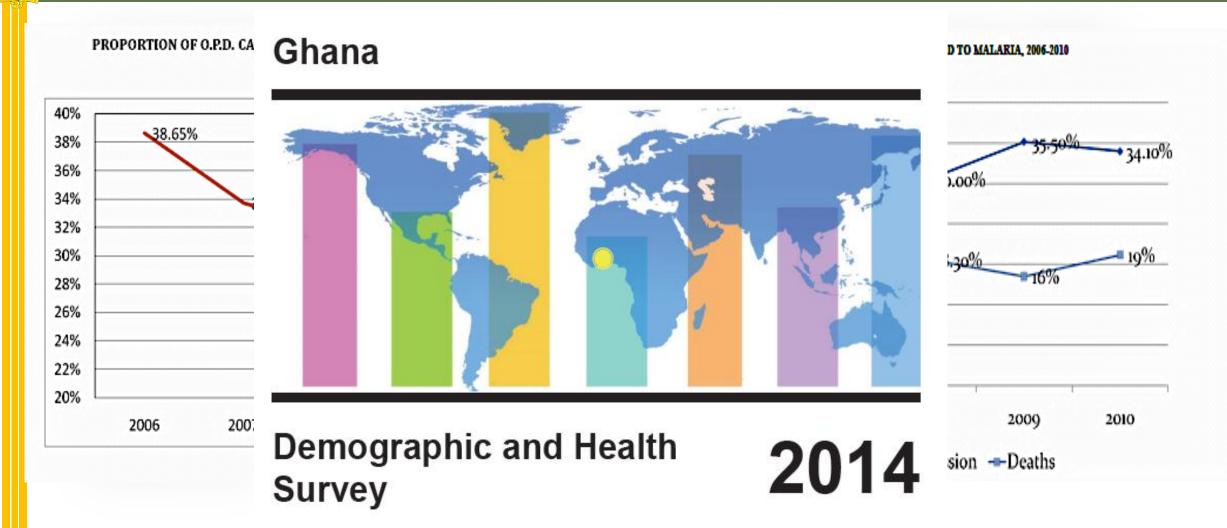


Policies and Institutional Framework-cont'd

- Key institutions responsible for environment and health include the following:
 - Ministry of Health
 - Ghana Health Service
 - Ministry of Local Government and Rural Development
 - Ministry of Environment, Science, Technology & Innovation
 - Environmental Protection Agency
 - Ministry of Water Resources, Works & Housing
 - Water Resources Commission
 - Ghana Statistical Service
- Some relevant laws and legislation include;
 - Ghana Health Service Act 525,
 - Local Government Act 462,
 - Environmental Assessment Regulations, 1999 (LI1652),
 - Environmental Protection Agency Act 490, etc.

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Indicators & Data



Indicators & Data

• Air Quality Index (AQI)

- AQI is a measure of the quantity of harmful particles and chemicals in the air.
- The AQI is an index for reporting daily air quality. It tells you how clean or polluted your air is, and what associated health effects might be a concern for you.
- The AQI focuses on health effects you may experience within a few hours or days after breathing polluted air.
- The EPA calculates the AQI for five major air pollutants regulated by the Clean Air Act: ground-level ozone, particle pollution (also known as particulate matter/ PM_{10}), carbon monoxide, sulfur dioxide, and nitrogen dioxide. For each of these pollutants,
- EPA has established national air quality standards to protect public health .Groundlevel ozone and airborne particles are the two pollutants that pose the greatest threat to human health in our country.

AQI PM₁₀ CALENDAR FOR ACCRA, DECEMBER 2014

	06-12-14	1212-14	18-12-14	24-12-14	30-12-14	
	LABADI JUNCTION	MALLAM JUNCTION	LABADI JUNCTION	LABADI JUNCTION	LABADI JUNCTION	
	ACHIMOTA OVERPASS		ACHIMOTA OVERPASS	ACHIMOTA OVERPASS	ACHIMOTA OVERPASS	
(TETTEH QUARSHIE INTER- CHANGE		TETTEH QUARSHIE INTER- CHANGE	TETTEH QUARSHIE INTER-	TETTEH QUARSHIE INTER- CHANGE	
	MALLAM JUNCTION			KASOA SITE	KASOA SITE	
	KASOA SITE					
Ì	Air Quality Index (AQI)	AIR QUALITY GUID	AIR QUALITY GUIDE FOR PM10			
(When the AQI is in this rang	is in this range: Levels of Health Concern/Protect Your Health				
			air quality conditions are:			
	Good (0-50)	No health impacts are e	nis range			
C	Moderate (51-100)	Unusually sensitive peop	Unusually sensitive people should consider limiting prolong outdoor exertion			
	Unhealthy for Sensitive Group (101-150)		The following Groups should limit prolonged outdoor exertions: § People with lung disease, such as asthma, § People with lung disease, such as asthma, § Children and older adults and § People are active outdoors			
	Unhealthy (151 to 200)		The following groups should avoid prolonged outdoor exertions:§ People with lung disease, such as asthma, § Children and older adults § People are active outdoors and § Everyone else should limit prolongd outdoor exertion			
	Very Unhealthy (201 to 300)		The following groups should avoid all outdoor exertions: § People with lung disease, such as asthma, § Children and older adults, § People are active outdoors and Everyone else should limit prolonged outdoor exertion			
2	Hazardous (301 to 500)	Everyone should avoid a	any outdoor exertion			

Challenges

- Ghana's National Statistical System does not currently produce any environmental statistical information
- The relative uncoordinated and scanty nature of data on environmental health statistics.
- Inadequate capacity and expertise in the field of environmental statistics
- No clear-cut processes or methodology for producing environmental statistics
- Lack of ownership among state institutions
- Financial resource constraints (Make resources available in the national budgeting processes)

Present & Next Steps

- Ghana is in the process of building a National Natural Capital Accounting (NCA) System based on the System of Integrated Environmental and Economic Accounting (SEEA) framework of the UNSD. This activity which started this year will focus on compiling on a pilot basis a national sub-account for one sector i.e. forestry or minerals.
- Started working on estimating the Cost of Environmental Degradation (CoED) to the country on an annual basis. Focus areas so far have included estimates from the Agricultural, Forestry, Fisheries, Environmental Health, and the Energy sectors. This activity is coordinated by the Environmental Protection Agency with twenty-one (21) institutions as members of the working group.
- Discussion to extend the scope of the CoED to cover critical areas of mining, water, bushfire and wildlife
- The Environmental Protection Agency (EPA) has initiated a process aimed at establishing a Natural Resource and Environmental Economics & Statistics Unit within the Agency.

Present & Next Steps-cont'd

- Adopt and operationalize the implementation of the Framework for the Development of Environmental Statistics (FDES), its basic set and the ESSAT in Ghana.
- Facilitate arrangements towards strengthening work on the ECOWAS Agreed Set of Environmental Indicators
- Convene a meeting of stakeholders to institutionalize Environment Statistics in all relevant Ministries, Departments and Agencies (MDAs) with Focal points (i.e. where possible set up an inter-agency committee
- Present a concept note on Environmental Statistics to the National Statistical System(NSS) to consider integrating environmental statistics into the NSS

Conclusion

- Enhancement in technical capacity at all levels, especially in environmental sanitation.
- Strengthen awareness creation and education on environmental health issues. For instance, the National Sanitation Day
- Strengthen partnership, coordination and collaboration amongst institutions involved in environmental protection, provision of sanitary facilities, and health services.
- Harmonization of environment related data and statistics i.e. establishing a central point where data and information on the environment can be stored and harnessed to make sense to users
- Strict enforcement and compliance to laws and regulations on the environment.



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Thank You for your attention!

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