

Key Terms and Concepts

Upon completion of this course, the student should be familiar with the following terms, concepts, and programs

Water Pollution

Non point source pollution

Point source pollution

Turbidity

Biological Oxygen Demand (BOD)

Salinity

Total Soluble Salts

Sodicity

Sodium absorption ratio (SAR)

Pollutant

Carcinogen

Food chain

Half life

Xenobiotic

Industrial waste

Municipal waste

Natural toxins

Radionuclides

Pollution from soil sediments

Biodiversity

Landscape modification

Non native species

Biological pest control

Integrated pest management

Acceptable daily intake (ADI)

Acute toxicity

Antagonism

Bioaccumulation (biomagnification)

Cancer potency factor

Chronic toxicity

Eutrophication

Heavy metals

Mutation

Reference dose

Synergism

Teratogenic

Threshold level

Methemoglobinemia

Composting

Pests

Pesticides

No-observable-effect level (NOEL)
Pest resistance
Wash water
Hypoxia
Proposition 65 of California

Programs focusing on water

Water Bank Program
Non point Source Pollution Control Program
National Estuary Program
Clean Lakes Program
Regional Water Quality Program
Wellhead Protection Program
Coastal Zone Program

Links :

Water Quality – the United States:

National Water Quality Laboratory of the UCGS
<http://nwql.usgs.gov/>

Toxic Substances Hydrology Program of the UCGS
<http://toxics.usgs.gov/>

Soil and Water Quality Research Unit of the ARS, USDA
http://www.ars.usda.gov/Main/site_main.htm?modecode=36-25-15-10

National Sedimentation Laboratory of the ARS, USDA
http://www.ars.usda.gov/main/site_main.htm?modecode=64-08-05-00

Water Quality Assessment and Monitoring of the NRCS, USDA
<http://www.wcc.nrcs.usda.gov/wqam/>

Chesapeake Bay Program
<http://www.chesapeakebay.net/index.cfm>

Clean Water and Oceans Program of Natural Resources Defense Council
<http://www.nrdc.org/water/default.asp>

Water Quality – International:

Global Environmental Monitoring System – The World of Water Quality
<http://www.gemswater.org/>