

Effects Of Nonpoint Source Pollutants From Different Land Uses On Wetlands

Land Use/Source	Typical Pollutants	Effect on Wetlands
<i>Agricultural Runoff (cattle grazing land, manure)</i>	Bacteria (coliform, streptococcus)	Contamination of shellfish, rendering them inedible
	Suspended solids	Clogged bottom sediments, interfering with fish spawning and benthic invertebrates; sediment buildup can significantly alter wetland hydrology, flood waters storage capacity, and plant and animal communities.
	Nutrients	Increased vegetative productivity, resulting in increased standing stocks of vegetation, followed by increased rates of vegetative decay and higher community respiration rates
	Organic matter	Greater oxygen demand/depletion
	Pesticides, salts	Alteration of species distribution
<i>Agricultural Runoff (feedlots)</i>	Nitrogen, phosphorus	Increased vegetative productivity, resulting in increased standing stocks of vegetation followed by increased rates of vegetative decay and higher community respiration rates
	Heavy metals (Pb, Zn, Cu, Cd)	Alteration of species distribution
	Petroleum residues	Decreased growth and respiration rates (chronic toxicity)
<i>Residential Stormwater Runoff (low to moderate density)</i>	Total nitrogen	Increased vegetative productivity, resulting in creased standing stocks of vegetation, followed by increasing rates of vegetative decay and higher community respiration rates
	Bacteria (coliform)	Contamination of shellfish, rendering them inedible
	Heavy metals (Pb, Zn, Cu, Cd)	Alteration of species distribution
	Pesticides (diazinon)	Alteration of species distribution