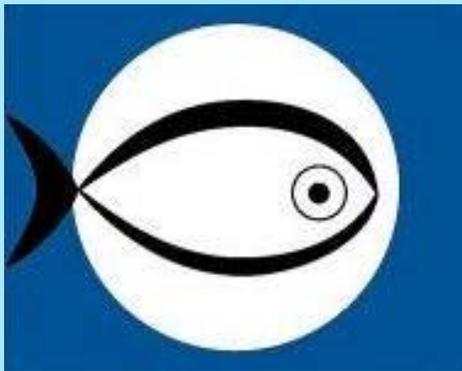
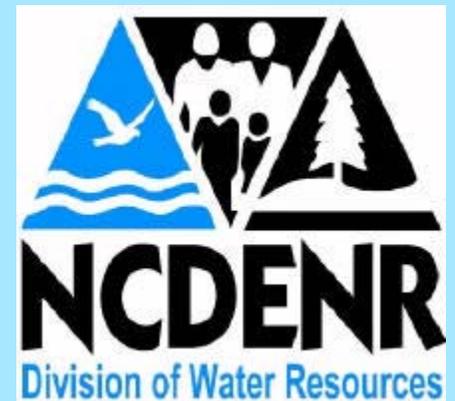


Major Sources of Nonpoint Source (NPS) Pollution and Best Management Practices (BMPs)

By: David Wojnowski,
Stream Watch/Project WET Coordinator



Stream Watch



Major Sources of NPS Pollution and BMPs



Source

Best Management Practices:

Roads and Streets



- dispose of paints, solvents, and petroleum products at approved disposal sites, not in storm drains or street gutters
- fix automobile oil and fuel leaks
- stop oil dumping on rural roads
- use nonchemical deicers (sand and ash) on roads, sidewalks, and driveways
- construct a sediment catch basin to collect storm water runoff
- reduce road construction runoff by building terraces and catch basins, and by planting cover crops (grass)

Major Sources of NPS Pollution and BMPs



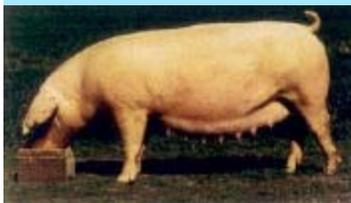
Source

Best Management Practices:

Agriculture



- read and follow all labels and ask for application directions before using chemicals, fertilizers, and pesticides
- use conservation tillage, contour farming, strip cropping, and crop rotation
- institute pasture management
- leave filter strips and field borders along wetlands and streams
- use cover crops to reduce erosion and terrace areas prone to erosion
- fence waterways to reduce riparian zone impact from livestock
- construct livestock waste collection and treatment ponds for confined livestock
- avoid ditching and draining of small ephemeral wetland pools



Major Sources of NPS Pollution and BMPs



Source

Best Management Practices:

Logging



- monitor water entering and leaving cut areas
- prevent sediments from reaching streams and lakes by building terraces, catch basins, and natural filters
- leave a vegetative buffer zone in riparian areas
- maintain and restore effective watersheds
- implement a plan to reduce erosion from roads

Major Sources of NPS Pollution and BMPs



Source

Best Management Practices:

Mining



- monitor all water entering and leaving mine sites
- intercept and reroute uncontaminated water away from contaminated areas (keep clean water clean!)
- construct catch basins and terraces, and plant cover crops, to catch sediment and prevent erosion
- catch and treat contaminated water (clean contaminated water!)
- stabilize stream channels
- stabilize mining waste areas to prevent release of materials to streams
- maintain buffer strips along streams

Major Sources of NPS Pollution and BMPs



Source

Best Management Practices:

Construction



- implement a sediment control plan
- plant ground cover to reduce erosion
- dispose of solvent, paint, and other wastes at approved disposal sites
- build temporary, small dikes to slow and catch runoff
- build sediment catch basins to collect construction runoff
- build earth berms and filter runoff before water enters a stream

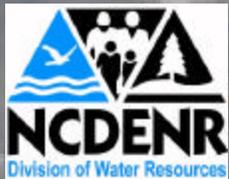


Photo by: David Wojnowski

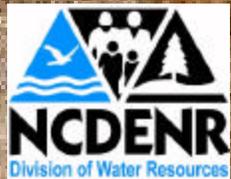


Photo by: David Wojnowski



Photo By: David Wojnowski

Major Sources of NPS Pollution and BMPs



Source

Best Management Practices:

Residential



- use nonchemical deicers (sand and ash or non-clumping cat litter) on residential driveways, decks and sidewalks
- read labels prior to using pesticides and fertilizers
- consider xeriscaping or using native vegetation
- use nonchemical fertilizers (compost) on gardens
- dispose of household hazardous waste at approved disposal sites
- maintain septic tanks if sewers are not available