

Confinement Areas

This factsheet is one of a series developed for livestock owners with small farms. Each factsheet focuses on an area of management that will benefit the health of your animals, as well as the health of your property's natural resources.



BMP Factsheet

Fall 2008

Confined livestock areas are outdoor, nongrazing (or minimal grazing) areas in which livestock are confined by fencing or structures during the wettest months of the year (Oct.- March). Most of all the feed is brought to the livestock. Confined livestock areas may also be called feedlots, corrals, calving areas, arenas, paddocks, pens, yards, or heavy use areas. They all function to protect your valuable forage ground and reduce mud and manure runoff on other parts of your farm.

Consider the following when establishing and managing a confinement area.

Lot space needed per animal. It's best to minimize the size of your confinement area so that manure collection and removal is easier and you maximize healthy usable pastures. In general horses need about 300-400 sq. ft., sheep 40 sq. ft. and beef cows 350 sq ft per animal. See livestock chart in the TIPS book for more details.

Is your confinement area located and designed so that runoff is minimized?

Careful consideration should be given to the location of these livestock holding areas. Choose a well-drained area away from existing streams, ponds, swales, wetlands, or other clean water. Providing good footing materials such as pea gravel, hog fuel, wood chips, and sand are some possible materials that can be used to keep these areas dry. Different footing materials are appropriate for different livestock types.

Install gutters and downspouts on barns and shelters to collect clean rain water. Locate downspout outlet pipes to divert clean water to a vegetated area away from animal confinement space. The idea is to prevent the clean roof water from mixing with manure in the confinement area

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Livestock Confinement	Composting
Reducing Mud	Pasture Management
Roof Runoff Structures	Fencing-Types and Costs
Filter Strips and Buffers	Farm Plan
Manure Storage	Wetlands

and contributing to mud build up and polluted runoff. A 1" rainstorm produces 90 gallons of water running off a 12' x 12' roof. Collecting roof water in gutters and directing the runoff through downspouts away from animal confinement areas is a simple and immediate step toward reducing mud in the high traffic areas around buildings. Gutters and downspouts greatly reduce the mud problem around barns and shelters and help prevent manure and sediments from reaching waterways.

Once gutters and downspouts are installed, drain tiles, or simple ditches may be used (with proper care and planning!) to intercept roof water and to re-direct that water away from or around animal confinement areas. Re-directing roof water away from animal confinement areas prevents that water from contributing to muddy conditions that often lead to polluted runoff reaching our natural waterways. Muddy areas should not be drained directly into streams, ponds, or clean water ditches. Muddy water or drainage from an animal confinement area should drain into a vegetated area (i.e. a "filter strip") or a wastewater pond. A filter strips job is to intercept nutrients, sediment, and pathogens before they enter surface water. See filter strip fact sheet for more.

Buildings and shelters should also be located in high, well-drained areas. Avoid placing buildings close to streams, ponds, swales, and wetlands. Check with Whatcom County Planning & Development Services (360-676-6907) for setback and permitting requirements.

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"To serve present and future generations of Whatcom County through a natural resource conservation program of leadership, partnership, and technical, educational, and financial assistance to foster a healthy, sustainable relationship, between people and the environment."