

Feedlot Plan for Dust Control

Goals:

To reduce dust emissions from a feedlot that may pose a nuisance or health risk to workers, neighbors, and cattle.

Instructions: Check off the areas below that describe operational procedures in your feedlot and delete the procedures which you do not perform. Refer to your provincial environmental regulations and feedlot development permits. Edit as required and fill in the blanks and answer the short questions. Ensure supporting records are available.

Procedures

- o Personnel responsible for dust control _____
- o Pen and Alleyway Management
 - o During the summer, loose manure is scraped frequently from surfaces with a _____ (e.g. box scraper) to maintain a compacted pen layer of manure no more than 2-5 cm
 - o Water trucks are used in pens and alleyways to reduce dust events
 - o Irrigation sprinklers are used in pens to reduce dust events
 - o Irrigation sprinklers cover all corners of the pen, including holding pens and alleyways
 - o Stocking density is increased by _____ to reduce dust events
 - o Crop residues are applied on corral surfaces (describe crop residue and application)

- o Road maintenance
 - o Topical application of chemical resins e.g. petroleum derivatives are applied during busy times on roads near residences (describe)

 - o Used waste oil is not used on roads for dust control without a special permit
 - o Roads are wetted with a water truck during heavy activity e.g. silaging
 - o Roads are grated and gravel applied prior to heavy use periods
 - o Other (describe)

- o Feed mill management

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- feed is processed to prevent excessive fines (describe method)

- fat is added to the ration to reduce dust (describe)

- dust collectors are used on equipment (describe)

- feed mill is cleaned regularly (frequency)_____
- other (describe)

- Trees and other vegetative barriers (i.e. windbreaks, shelterbelts) are located around the feedlot to help disperse dust-laden air
- Land management
 - Zero tillage or conservation tillage
 - Land is not tilled on really windy days
 - Other (describe)

- Other (describe)

- If the dust control plan is not followed or problems occur, _____ (who) is contacted, corrective actions are implemented, personnel responsible are retrained, plans are updated if necessary, and actions are recorded.

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