

Building Permit No.: _____

Name: _____

Farm Municipal Address: _____

Phone No.: _____

Date: _____

DATA SHEET MINIMUM DISTANCE SEPARATION II (MDS II) CALCULATION

Objective: the objective of Minimum Distance Separation (MDS) Formula is to minimize nuisance complaints due to odour and thereby reduce potential land use conflicts. MDS does not account for other nuisance issues such as noise and dust.

Application: The MDS formula is only intended to deal with odour generated from livestock facilities, such as barns and manure storage.

LIVESTOCK/POULTRY SELECTION

Types of Livestock/Poultry	Existing Capacity	Additional Capacity	Total Barn Capacity	Solid or Liquid Manure?	Manure Storage Type
Swine	-	-	-	-	-
Breeder grits (entire barn designed specifically for this purpose)					
Feeders (27-136 kg)	-	-	-	-	-
-Deep Bedded				Solid	
-Full Slats				Liquid	
-Partial Slats				Liquid	
-Solid Scrape				Solid	
Sows with litter, dry sows/boars					
Weaners (7-27 kg)					
Dairy	-	-	-	-	-
Milking-age cows (dry or milking)	-	-	-	-	-
Large-framed; 545 kg-658 kg (eg- Holsteins)	-	-	-	-	-
-Row Free Stall					
-Bedded Pack				Solid	
-Sand					
-Tie Stall					
Medium-framed; 455 kg-545 kg (eg - Guernseys)	-	-	-	-	-
-Row Free Stall					
-Bedded Pack				Solid	
-Sand					
-Tie Stall					

Small-framed; 364 kg-455 kg (eg - Jerseys)	-	-	-	-	-
-Row Free Stall					
-Bedded Pack					
-Sand					
-Tie Stall					
Heifers (5 months to freshening)	-	-	-	-	-
Large-framed; 182 kg-545 kg (eg- Holsteins)	-	-	-	-	-
-Deep Bedded				Solid	
-Free Stall/Manure Pack Outside Access					
-Pack Scrape					
Medium-framed; 148 kg-455 kg (eg - Guernseys)	-	-	-	-	-
-Deep Bedded				Solid	
-Free Stall/Manure Pack Outside Access					
-Pack Scrape					
Small-framed; 125 kg-364 kg (eg - Jerseys)	-	-	-	-	-
-Deep Bedded				Solid	
-Free Stall/Manure Pack Outside Access					
-Pack Scrape					
Calves (0-5 months)	-	-	-	-	-
Large-framed; 45 kg-182 kg (eg- Holsteins)					
Medium-framed; 38 kg-148 kg (eg - Guernseys)					
Small-framed; 30 kg-125 kg (eg - Jerseys)					
Beef	-	-	-	-	-
Backgrounders (7-12.5 months)	-	-	-	-	-
-Confinement					
-Yard/Barn					
Cows, including calves to weaning	-	-	-	-	-
-Confinement				Solid	
-Yard/Barn				Solid	
Feeders (7-16 months)	-	-	-	-	-
-Confinement Bedded Pack				Solid	
-Confinement Total Slats				Liquid	
-Yard/Barn					
Shortkeepers (12.5-17.5 months)					

Veal	-	-	-	-	-
Milk-fed					
Grain-fed					
Goats	-	-	-	-	-
Dairy Kids				Solid	
Does & Bucks (for dairy)				Solid	
Does & Bucks (for meat)				Solid	
Feeder Kids				Solid	
Sheep	-	-	-	-	-
Ewes & rams (for meat lambs)	-	-	-	-	-
-Confinement				Solid	
-Outside Access				Solid	
Ewes & rams (dairy operation)					
Lambs (dairy or feeder lambs)	-	-	-	-	-
-Confinement				Solid	
-Outside Access				Solid	
Horses	-	-	-	-	-
Large-framed, manure; >680 kg (including unweaned offspring)				Solid	
Medium-framed, manure; 227 kg – 680 kg (including unweaned offspring)				Solid	
Small-framed, manure; <227kg (including unweaned offspring)				Solid	
Chickens	-	-	-	-	-
Layer hens (for eating eggs; after transfer from pullet barn)	-	-	-	-	-
-Cages					
-Floor run				Solid	
Layer pullets (day olds until transferred into layer barn)	-	-	-	-	-
-Cages					
-Litter					
Broiler breeder growers (males/females transferred out to layer barn)				Solid	
Broiler breeder layers (males/females transferred in from grower barn)	-	-	-	-	-
-Cages				Solid	
-Litter With Slats				Solid	
Broilers				Solid	
Turkeys	-	-	-	-	-
Breeder toms				Solid	
Broilers (day olds to 6.2 kg)				Solid	

Hens (day olds up to 6.2 kg to 10.8 kg; 7.5 kg is typical)				Solid	
Toms (day olds to over 10.8 kg to 20 kg; 14.5 kg is typical)				Solid	
Turkey breeder layers (females transferred in from grower barn)				Solid	
Turkey brooder barn (day old until transferred to growout barn)				Solid	
Turkeys at any other weights				Solid	

REFERENCE

Types of Manure Storage	
0	No storage required (manure/material stored for less than 14 days)
V1	Solid, inside, bedded pack
V2	Solid, outside, covered
V3	Solid, outside, no cover, greater than or equal 30% dry matter
V4	Solid, outside, no cover, 18% -30% dry matter, with covered liquid runoff storage
L1	Solid outside, no cover, 18% -30% dry matter, with uncovered liquid runoff storage
V5	Liquid, inside, underneath slatted floor
V6	Liquid, outside, with a permanent, tight fitting cover
L2	Liquid, outside, with a permanent floating cover
M1	Liquid, outside, no cover, straight-walled storage
M2	Liquid, outside, roof, but with open sides
H1	Liquid, outside, no cover, sloped-sided storage

Solid vs. Liquid Manure	
Solid Manure: 18% dry matter, or more	
Liquid Manure: Less than 18% dry matter	