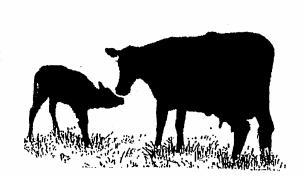
SOUTH DAKOTA ANIMAL INDUSTRY BOARD 411 S Fort St Pierre,SD 57501 605-773-3321



JOHNE'S DISEASE RISK ASSESSMENT AND MANAGEMENT PLAN FOR DAIRY HERDS

The following Johne's Disease Risk Assessment and Management Plan (RAMP) form is a confidential evaluation of production herd management related to the control of Johne's Disease. The scores obtained from the Risk Assessment portion are for the purpose of future comparison and review of your operation. The herd Management Plan is to be developed by you and your herd Veterinarian, and is meant to aid in the development of management practices which will reduce the risk of Johne's Disease in your herd or prevent the introduction of Johne's Disease into your herd. Keep a copy of this form where you can review it on a regular basis and a copy must be kept by the herd veterinarian. An updated RAMP must be submitted every three years to maintain a Johne's Disease Herd Classification Level.

Please mail a copy of this RAMP with original signatures and the 1-page Application for Herd Classification to the SD Animal Industry Board. These documents, along with Johne's Disease test results, will be reviewed for determination of your herd's Johne's Disease Herd Classification Level

Current Herd Health Status and Concerns (Filling out this page is optional)

Collecting this information will provide input that is important to consider when implementing the elements of the Johne's disease prevention or control plan. The format used shows the farm's performance-limiting health issues and the level of concern the owner has for them. Many of the health and production problems brought to light by information on this page may already be addressed by the owner. The final Johne's disease management plan should blend in with these current performance-limiting health issues and concerns.

Fill in requested information, circle choice (Satisfactory/Unsatisfactory) or specify the incidence (or level of concern or priority) by checking U, 1, 2 or 3 in the box next to the specific disease.

Ú = Unknown incidence or concern

2 = Moderate incidence, may be a concern

1 = OK, low incidence, not a concern

3 = Significant increase, unsatisfactory, needs attention

Calf Feeding Practices										
Average hours to first col	ostrum				Total number of colostrum feedings					
Amount of first colostrum	fed				Feed unpasteurized milk, pasteurized milk, milk replacer					
Colostrum source — In	dividual P	ooled			(circle)					
Calf Disease Incidence	or Level of	Concer	'n							
Protocol for keeping feed	and feeding	equipn	nent sa	nitary						
Pre-wean mortality (Last					Scours	U	1	2	3	
Calf vigor	Satisfactory	/ Un:	satisfa	ctorv	Pneumonia	Ū	1	2	3	
Calf growth	Satisfactory		satisfa		Other	U	1	2	3	
Heifer Disease Incidend										
Heifer growth Poor Good				Pneumonia	U	1	2	3		
Age at freshening					Digital dermatitis	Ü	1	2	3	
Breeding program	Satisfactory	/ Uns	atisfac	torv	Coccidiosis	Ū	1	2	3	
Milk Quality and Udder		0110	adolac	.cory	Coccidiosio		<u> </u>			
Bulk tank SCC	- Iouiti				Number of mastitis cases per r	nonth				
Bacteria count/ SPC					Recent culture & sensitivity res					
Reproduction Program					Trecent culture & sensitivity res	uits				
Heat detection rate					Herd average DIM					
Conception rate					Abortions/year (% herd)					
Pregnancy rate					Embryonic loss					
Method of insemination					Embryonic ioss					
Lameness Incidence or	I aval of Ca	noorn								
Foot trimming schedule	Level of Co	nicern								
% of cows with obvious I	ameness				Abscesses	U	1	2	3	
Digital dermatitis	U	1	2	3	Foot rot	Ü	1	2	3	
Laminitis	U	1	2	3	Other	U	1	2	3	
Infectious Disease Inci				<u> </u>	Other					
		1		٦,	BLV		T 4	_	3	
Johne's disease	U	1	2	3		U	1	2	3	
Salmonellosis	U	_	2	3	Clostridial disease	U	<u> </u>			
Neosporosis		1	2	3	Leptospirosis		1	2	3	
BVD	U	1	2	3	Other	U	1	2	3	
Respiratory disease	U	1	2	3	41>					
Metabolic Disease Inci			_	_						
Milk fever	U	1	2	3	DAs	U	1	2	3	
Retained placentas	U	1	2	3	Acidosis	U	1	2	3	
Ketosis	U	1	2	3	Stillborn / Dystocia cases	U	1	2	3	
Mastitis	U	1	2	3	Other	U	1	2	3	
Metritis	U	1	2	3						
Culling Incidence										
Cull Rate % last 6 month					Reproduction	U	1	2	3	
< 60 DIM	U	1	2	3	Lameness	U	1	2	3	
Deaths	U	1	2	3	Low production	U	1	2	3	
Mastitis	U	1	2	3	Other	U	1	2	3	

Johne's Disease Dairy Risk Assessment Form

Legal Entity Name/Herd Owner's Name							
Veterinarian		Date					
Herd Owner's Address							
Herd Management History							
Herd Status (circle one):			ng has the h	erd been here	and how w	as it	
Unknown Known + Johne's Diseas	se Program	assemb	oled?				
If Johne's Disease Program, indicate level: 1 2 3 4 5 6							
What percent of the current herd was purchased? Animals other than cattle			Comments				
Age/Source/Date of youngest clinical Johne's disease case			Age/Source/Date of <u>first</u> clinical Johne's disease case				
Short-Term Goals			rm Goals				
If animals raised elsewhere and return, descr	ribe how biose	curity is ma	aintained				
Health prerequisites required for herd additions							
	Lactating Cows/Heifers	Dry Cows	Bred Heifers	Open/Growing Heifers	Bulls	Total	
Inventory							
Johne's disease clinical cases last 12 months							
Total number culled and died in last 12 months (any reason)							

Introduction of New Cattle

Group	Pa	st 12 Months	Past 2-5 years					
_	#	Source	#	Source				
Cows								
Bred								
Heifers								
Heifer								
Calves								
Bulls								
Total								

Clinical case worksheet-list from most recent back to first (use another sheet if needed)

ID	Date	Approx. Age	Source	Offspring ID still in herd

Comments on clinical cases:

If renewal risk assessment & management plan (RAMP), what management changes have been made since last risk assessment?

Low Moderate High Place an X on the line above where you estimate the herd prevalence of Johne's disease might be. Consider number, age and timeframe of clinical cases for estimating prevalence of Johne's disease in the herd. You may also use information from boxes below to help estimate herd prevalence. Low Moderate High · No or rare clinical cases.

- · Clinical only in purchased animals. • ~< 5% test prevalence mostly in older animals.
- · Excellent management and sanitation
- · Few clinical cases in home-reared animals.
- · Recent history of 2%-5% clinicals/year.
- ~6%-19% test prevalence mixed group.
- · Management allowed for some contact of weaned young stock with manure or older animals.
- · Frequent in home-reared animals.
- · Increasing clinical cases.
- · Decreasing age of clinicals.
- ~> 20% test prevalence mixed group.
- . Severe risks exist for contact of young stock with manure of mature animals.

Risk Assessment Scores (based on visual observation of each environment and owner responses)

Estimate the risk for fecal/oral and colostrum/milk disease spread, or gap in farm's biosecurity, for each management practice. Follow the logical order. *Observe Proper Biosecurity!* Note how current management conditions differ from past. Ideally producer & veterinarian score risks independently, then compare and discuss relative importance in the development of a management plan. See Step 3 in the "How to Do" instructional handbook for guidelines to completing area risk assessments.

Calving Area Risk Factors Write in herd score at right. 0 is lowest risk, 10 is highest risk.	Max Score	Herd Score	Comments	
Multiple animal use [Single pen → Dense crowded group]	10			
2. Manure build-up risk for calf ingestion [Clean dry → Dirty wet]	10			
 Area also used for sick cows [Never → Always] 	10			
4. Presence of JD clinicals / suspects [Never → Always]	10			
 Manure soiled udders / legs [Never → Always] 	10			
6. Calves born in other cow areas [Never → Always]	10			
7. Time calves stay with dam [<30 minutes → >24 hours]				
8. Calves nurse dam [Never → Most or all]				
Risk Sub-total	80			
Estimate risk of spreading Johne's disease (Please circle one): Very Low Low Moderate High Very High				

B. Pre-Weaned Heifer Risk Factors Write in herd score at right. 0 is lowest risk, 10 is highest risk.	Max Score	Herd Score	Comments		
1. Fed pooled colostrum [Never or JD negative → High risk cows]	10				
2. Fed colostrum from individual cow to several calves [As 1. above]	10				
3. Fed unpasteurized pooled milk [JD negative cows → High risk cows]	10				
 Possible manure contamination of colostrum or milk: at harvest, utensils, traffic or people [None any source → Frequent many sources] 	10				
Possible manure contamination of calf feed or water: by cows, traffic splatter, equipment or people [As 4. above]	10				
Direct cow contact or potential manure contamination of calf pen by cows, traffic splatter, equipment or people [As 4. above]	10				
Risk Sub-total	60				
Estimate risk of spreading Johne's disease (Please circle one): Very Low Low Moderate High Very High					

Johne's Disease Dairy Risk Assessment Form - *Continued*

C. Post-Weaned Heifer Risk Factors Write in herd score at right. 0 is lowest risk, 7 is highest risk.	Max Score	Herd Score	Comments		
Direct cow contact or pen contamination with cows' manure [None → Always]	7				
Possible manure contamination of feed: refused cow ration, stored feed, equipment, cows, traffic splatter, people or runoff [Never → Frequently]	7				
 Potential for contamination of supplied or natural water: shared with cows, traffic splatter, runoff or people [Never → Frequently] 	7				
4. Share pasture with cows [Never → Frequently]	7				
5. Manure spread on forage and fed same season [Never → Frequently]	7				
Risk Sub-total	35				
Estimate risk of spreading Johne's disease (Please circle one): Very Low Low Moderate High Very High					

D. Bred Heifer Risk Factors Write in herd score at right. 0 is lowest risk, 5 is highest risk.	Max Score	Herd Score	Comments
Direct cow contact or pen contamination with cows' manure. [None → Always]	5		
 Possible manure contamination of feed: refused cow ration, stored feed, equipment, cows, traffic splatter, people or runoff. [Never → Frequently] 	5		
 Possible manure contamination of water sources: shared with cows, by cows, traffic splatter, runoff or people. [Never → Frequently] 	5		
4. Share pasture with cows [Never → Frequently]	5		
5. Manure spread on forage and fed same season. [Never→ Frequently]	5		
Risk Sub-total	25		
Estimate risk of spreading Johne's disease (Please circle one): Very Lo	w Lo	w Mo	derate High Very High

E. Cow and Bull Risk Factors Write in herd score at right. 0 is lowest risk, 4 is highest risk.	Max Score	Herd Score	Comments
Possible cow manure contamination of feed: when fed or stored, by equipment, traffic splatter, runoff or people. [Never →Frequently]	4		
2. Possible manure contamination of water: by cows, traffic splatter, runoff or people. [Never → Frequently]	4		
3. Direct access to accumulated or stored manure. [Never → Frequently]	4		
 Manure spread on forage and fed the same season. [Never → Frequently] 	4		
Risk Sub-total	16		
Estimate risk of spreading Johne's disease (Please circle one): Low	N	/loderate	e High

Johne's Disease Dairy Risk Assessment Form - Continued

F. Sources of Additions and Replacements* Circle the number in each row that reflects management in the past 12 months. Include bulls, ET recipients, other non-dairy cattle and small	Number of Animals						
ruminant additions on the property. Maimum score is 60.	1-5	6-12	13-20	21-50	>50		
Get additions or replacements from Level 3-6 classified herds	0	2	4	6	8		
2. Get additions or replacements from Level 1-2 classified herds	10	11	12	13	14		
3. From single source non-tested or non-program herds	20	22	23	26	28		
4. From multiple sources non-tested or non-program herds or markets	30	34	36	38	40		
Estimate risk of spreading Johne's disease (Please circle one): Very Lo	ow Low	Mode	erate H	igh Ve	ry High		
Comments-Include information about planned additions and replating next 12 months.	cements	from out	side sou	rces ove	r		

^{*} If the herd is truly closed, this area is given a score of "0".

Risk Assessment Summary

Completing this table is optional. However, calculating the herd scores for each area as a percent of the area's maximum score and as a percent of the herd's total score will highlight the top risk areas to address in the farm plan.

Risk Factor Areas	Maximum Score	Your Herd Score	Each Area Herd Score/ Each Area Maximum Score (%)	Each Area Herd Score/ Your Total Herd Score (%)
A. Calving Area	80			
B. Pre-weaned heifers	60			
C. Post-weaned heifers	35			
D. Bred heifers	25			
E. Cows and bulls	16			
F. Additions/Replacements	60			
Total	276			

Management Recommendations for Your Farm (Based on the score sheet on the previous pages).

A ' \checkmark ' in a box indicates a change or a reminder is suggested.

A. Calvin	g area
	Consider individual calving pens. Properly managed calving pens are ideal. Keep clean and put one cow in at a time.
	Focus on keeping other adult manure away from the calves.
	If individual calving pens are not available, be sure to keep the calving area as clean and dry as possible.
	Do not use calving pens for sick cows, Johne's disease positive cows or cows sick with Johne's disease.
	Remove calves from cows and cow area as soon after birth as possible. The sooner the better.
	Other calving area comments:

B. Pre-weaned heifer calves				
	Do not feed pooled colostrum or milk. Consider pasteurization if you must feed whole milk.			
	Limit or avoid any contact with adult cows or cow manure.			
	Wear clean overalls & boots and use clean equipment when working with or feeding calves.			
	Other pre-weaned heifer comments:			

C. Post-weaned heifers:			
	Minimize any contact with adult cows or cow manure (including any manure run off that may go into heifer pens).		
	Avoid & minimize cow manure on buckets, skid loaders, tractors, tires and other equipment.		
	Other post-weaned comments:		

D. Bred heifers			
	Keep bred heifers separate from cows for as long as possible.		
	Avoid feeding heifers refused (weigh back) feed from cows.		
	Other bred heifer comments:		

Management Recommendations for Your Farm - *Continued*

	Avoid spreading mandre on hay ground or pasture	es, especially in the same season.	
	Identify and manage any test-positive cows until to heifer calves.		
	Other cow & bull comments:		
F. Replac	cements & Additions		
	Be sure to purchase replacements from herds where the Johne's status is known.		
	Be aware of management practices and manure e	exposure when using a heifer raiser.	
	Other replacement comments:		
t are t eterminevent	isease Management Plan the objectives of the herd plan? Che ne status of herd further spread or eliminate the infection from herd	eck those that apply: □ Prevent introduction into herd □ Establish test negative status □ Other	
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Biosecurity

- (1) Ensure that animals added to the herd come from low risk or known-status herds and from known sources (do not purchase from sale yards). Record the source and manage additions as higher risk animals unless you have evidence to the contrary.
- (2) Minimize exposure of young stock to manure from adult animals, including other susceptible species. How the exposure is minimized will vary depending on management of the cattle located on the premises.
- (3) Minimize exposure of livestock to susceptible animals that are infected or have been exposed to infected animals.
- **(4)** Never feed calves unknown sources of colostrum. Never feed calves unknown sources of milk unless it is pasteurized. Commercial colostrum supplements can also be a source of Johne's Disease.
- (5) Minimize exposure of feed, water, equipment, and vehicle to manure. Avoid feedbacks to calves and heifers. Stock trailers and semi-trailers should be clean prior to hauling livestock.

Veterinarian's Signature	Date
Clinic Name and Address	
Herd Owner's Signature	Data

Please provide your client with a copy of this Risk Assessment and Herd Management Plan, keep a copy for your files, then mail or fax a copy to your State Designated Johne's Disease Coordinator.