OMB Approved 0579-0482 Exp: XX/XXXX

MYCOPLASMA BOVIS DISEASE IN BISON 2022 STUDY

We are attempting to understand the impacts, scope, and risk factors for *Mycoplasma bovis* disease in bison and buffalo herds in the United States. Your participation in this survey is voluntary and can be stopped at any time. Any information you provide will be kept confidential and will not be identified by premise.

By checking this box o, I acknowledge that I am at least 18 years of age and consent to the information I provide in this survey being used to understand the impacts, scope, and risk factors for *Mycoplasma bovis* disease in bison.

Unless specifically stated otherwise, please answer for the entire operation.

1.	What is your role in completing this survey? o_a Bison herd owner or manager o_b Veterinarian for affected herd o_c Other allied industry professional entering information for a client	
2.	Total herd size:	
3.	What Year herd was established:	
4.	State where herd spends majority of time:	
5.	Approximate size of main pasture or pen:	
6.	Has this herd ever had an animal confirmed to be infected with <i>Mycoplasma bovis</i> by a veterinary diagnostic laboratory.	
	 O_a Yes O_b No (skip to 14) O_C No, but <i>Mycoplasma bovis</i> was suspected or diagnosed by a veterinarian based on clinical signs. O_d No, but Mycoplasma bovis was suspected due to the scope and scale of losses in the herd. O_e Don't know (skip to 14) 	
7.	Date (can be approximate) when first mortalities were observed in most recent outbreak:	
8.	Over how long of a period were deaths observed in the herd?	
9.	What was the first sign of illness observed in the herd?	

10. Have you experienced previous losses or illnesses due to Mycoplasma bovis in this herd?

C	o _a Yes	
	i. If yes, please list yea	irs:
C	o _b No	
C	o _c Don't know	
	During the most recent outbupproximate):	reak, how many of each age class of animals were lost (can be
c	o _a Number of adult bulls	
c	ο _b Number of adult cows	
c	o _c Number of yearlings	
c	o _d Number of calves	
	Average body condition of a lied):	nimal(s) lost (circle the best answer for the majority of animals that
c	o _a Over conditioned	
C	₀ Heavier than average	
	o _c Average	
	Poorer than average	
C	o _e Poor/skinny	

	a.	Animals found dead without signs of illness
	b.	Coughing
	С.	Lameness
	d.	Loss of condition
	e.	Nasal discharge
	f.	Eye discharge
	g.	Open-mouthed breathing
	h.	Abortion
	i.	Loss of pregnancy/unusual number of open cows
	j.	Bleeding from nose, mouth, anus
	k.	Diarrhea
	l.	Apparent blindness
	m.	Isolation from the herd
	n.	Downer animals
	0.	Head tilt or droopy ear on one side
		Don't know
	q.	Other, please describe:
14.	When	was the last new animal added to the herd (approximate year or date is fine)?
15.	Are n	ew herd additions placed into quarantine prior to being added?
10.	111011	en nera additiono praeca mio quaramine proz to cemg added
	o _a Yes	
		(Skip to 17)
		n't know
	-0 -0	
16.	If yes	, how long is quarantine?
17.	Are n	ew herd additions tested for any diseases prior to being added?
	3.7	
		s if yes, please list test performed:
	o _b No	
	о _с D0	n't know

13. Please $\underline{\text{circle}}$ all signs of illness observed in the herd during the outbreak:

18. Are any other livestock kept on the premise (circle all that apply)?
 a. Domestic cow/calf operation b. Dairy cattle c. Feeder cattle d. Goats e. Sheep f. Horses/mules/donkeys g. Farmed deer/elk/cervids h. Other: i. No j. Don't know
19. Are the trailers used to ship animals from the affected herd also used to ship cattle or animals from other herds?
 O_a Yes, cattle O_b Yes, bison O_c Yes, sheep/goats O_d Yes, horses/mules/donkeys O_e Yes, farmed deer/elk/cervids O_f Other: O_g No O_h Don't know
20. If yes, are trailers cleaned in between herds?
o_a Yes, trailer is sprayed out/pressure washed in between herds o_b Manure removal only after each use o_c Manure removal only after more than one use o_d No o_e Don't know
21. If supplemental feed or minerals other than natural standing pasture forage is available, is this equipment shared with cattle operations?

oa Yes ob No

oc Don't know

22. Does the herd share waterers or water sources with cattle?	
 O_a Yes, water tanks O_b Yes, natural pond/lake/stock dam O_c Yes, river/stream O_d No O_e Don't know 	
23. Does the herd share pasture with cattle?	
o _a Yes o _b No o _c Don't know	
24. Does the herd share fence line with any other herds (circle all that apply)?	
 Oa Domestic cow/calf operation Ob Dairy cattle Oc Feeder cattle Od Bison Oe Horses/mules/donkeys/burros Of Sheep/goats/llamas/alpacas Og Farmed cervids Oh Other species:	
25. In the year prior to the first outbreak, have any animals from the herd escaped the premise and been returned to the herd?	
oa Yes ob No (skip to 27) oc Don't know	
26. If yes, please explain	
27. In the year prior to the first outbreak, have any escaped domestic livestock been found on your premise or in the pen with the herd (i.e., escaped animals from a neighboring farm, trespass, or feral livestock)?	
o _a Yes o _b No (skip to 29) o _c Don't know	

28. If yes, please name species, approximate date, and circumstances:
29. What wildlife species have been seen in the pen with the bison herd in the year prior to the outbreak?
 Oa None Ob Mule deer Ob White-tailed deer Ob Deer, unable to tell which species Ob Pronghorn Of Elk Og Other Oh Don't know
30. Water sources available to animals (circle any that apply):
 a. Automatic waterer b. Well or municipal water in water tank c. Stock dam or dugout d. Natural pond/lake e. Natural stream/river f. Other g. Don't know
31. Did you notice wildlife death losses in the area in the year prior to the first outbreak?
o_a Yes, species: o_b No o_c Don't know

32. Supplemental feed provided to the herd in the year prior to this survey or first <i>My</i> death (circle any that apply):	coplasma bovis
 a. None b. Alfalfa hay c. Alfalfa cubes d. Grass hay e. Pelleted ration f. Corn g. Silage/haylage h. Distiller's grain i. Protein tubs/blocks j. Liquid supplements k. Trace minerals/mineral blocks l. Salt blocks m. Other: n. Don't know 	
33. Any change in feeding practices in the year prior to this survey or the first Mycop death?	lasma bovis
oa Yes, please explain:	
o _b No	
o _c Don't know	
34. Is artificial insemination used on this herd?	
oa Yes, species:	
o _b No (skip to 36)	
o _c Don't know (skip to 36)	
35. If yes, when was approximate date of the last artificial insemination procedure pe	rformed?
36. Please circle all of the vaccines given to the herd within the last 3 years:	
a. None	
b. 7-way/Clostridial vaccine	
c. Newport or autogenous Mycoplasma bovis vaccine	
d. Other commercial Mycoplasma bovis vaccine	
e. IBR/Infectious bovine rhinotracheitis	
f. Bovine Diarrhea Virus	
g. Bovine Respiratory Syncytial Virus/Bovishieldh. Calf diarrhea vaccine	
i. Anthrax	
j. Leptospirosis	
k. Other:	
l. Don't know	

	o _a Pour-on dewormer
	o₀ Injectable or implant
	o _c Ear tag
	o _d Oral drench or feed
	o _e Dewormer blocks or salt
	o _f Pastures are rotated
	og Pastures are managed with prescribed fire
	o _h None
	o _i Don't know
38.	If you answered yes to any of the above parasite treatments, when are animals treated?
	oa All animals are treated on a regular schedule
	ο _b Certain age classes are treated on a regular schedule
	o _c Individual animals are treated when they appear sick
	o_d All animals in the herd or in an age class are treated when fecal testing indicates a high level of parasites
	o _e Individual animals are treated when fecal testing indicates a high level of parasites
	o _f Other:
	o _g Don't know
39.	What do you believe is the source of Mycoplasma bovis disease in bison?
40.	Any other comments or information you would like to share?

37. Is the herd treated with any deworming or anti-parasite products or strategies?