

Comparison of Historic Brucellosis Affected Herd Procedures, Results, and Methods to Current

Subject	Historic (prior to 2010)	Current
State Brucellosis	More than one herd detection	States with a wildlife reservoir of Brucella
Class Status	within a 24-month period	abortus must have a Brucellosis Management
	resulted in a loss of State	Plan (BMP) approved by APHIS. With a BMP,
	Brucellosis Class Free status. All	the discovery of multiple positive herds, if
	Sexually intact cattle and	managed properly, does not affect brucellosis
	domestic bison 18 months of age	Class Free Status.
	and older anywhere in the State	Mantana has maintained Drucellasis Class Free
	required a test to for export.	status despite an average of 1 affected hard
		per year since 2010
Size of the	Nationwide surveillance program	Federally mandated program in States with a
Brucellosis	First point testing of sexually	wildlife vector of <i>B. abortus</i> (Montana, Idaho,
Program	intact cattle and domestic bison	and Wyoming), now run by the State, and
0	18 months of age and older at all	reviewed by USDA. Montana gained Class Free
	livestock markets in the U.S. and	Status for the first time in 1985, lost Class Free
	slaughter plants.	Status in 2008 and regained it in 2009 utilizing a
		7 County brucellosis surveillance program
		called the Brucellosis Action Plan (BAP). The
		BAP was the precursor to the Designated
		Surveillance Area (DSA).
Designated	Initial DSA regulations mandated	In 2011, the regulations were changed to
Surveillance	that all sexually intact cattle or	today s language (ARIVI 32.3.435) removing the
Area (DSA)	or older within the DSA were	Today more and more DSA producers are
	brucellosis tested every year	voluntarily testing their herd annually to:
	Statemosis tested every year.	 Find infected animals early before the
		disease can be transmitted to herd mates.
		• Sample animals when they are already
		being handled.
		• Minimize the extent of an epidemiological
		investigation.
Herd	Required of the first and the	Not required if quarantine can be maintained.
Depopulation	second herd detected.	
Cause of	Quarantined as an affected herd	A herd is not considered affected and placed
Quarantine	due to discovery of a reactor	under quarantine unless field strain <i>B. abortus</i>
	animais (serologic positive),	is cultured.
	was not uncommon	
Affected Herd	Herd either depopulated or in	Able to maintain viability of the affected
Quarantine	some cases, guarantined with	operation through flexibility in testing:
Testing Protocol	test and removal. With test and	 The initial test (when the reactor was
	removal, there was little	discovered) may be considered the 1 st
	flexibility with the 3 negative	negative test.
	herd test protocol:	• Number of subsequent tests may depend
	-	on the class or pregnancy status of the

	 1st test 30-60 days after removal of the reactor 2nd test 180-210 days 3rd test (release) 365 days or more Assurance test 6-12 months after release Discovery of any additional non- negative, started the process over. 	 positive animal. For example, a single positive bull or pregnant female reduces the likelihood the disease was spread within the herd which may reduce the number of tests necessary. Tests cannot be completed less than 30 days apart and testing can occur at the time of other handling events (e.g. at the time a Scour vaccination is given). If the affected animal potentially aborted in the herd, more tests are recommended to afford a level of comfort that no additional positive animals will be discovered. Final/releasing test near calving.
Quarantine Release	Depopulation or strict test and removal (see "Affected Herd Quarantine Testing Protocol" above)	 Quarantine release is accomplished within 60 days of calving with a negative whole herd test. USDA/MDOL have allowed the release of DSA herds with a less stringent testing protocol because, science and epidemiology of the disease supports it. Upon release, the herd continues to meet DSA requirements (movement/change of ownership) for surveillance.
Adjacent herds	 Adjacent and affected herd sample collection was performed only by State or Federal personnel. An Adjacent herd: Any cattle or domestic bison that exchanged with, comingled with, or were within 1 mile of the affected herd at any time in the last 3-5 years (length of time was determined by the USDA epidemiologist). Placed under quarantine for a herd test and retested in 6-12 months. 	 Since 2014, some adjacent herd sample collection (if necessary) can be performed by [private practice] accredited veterinarians. Assurance testing of the affected herd can also be completed by an accredited veterinarian. An adjacent herd: Cattle or domestic bison that may have comingled with, exchanged animals with, or had fence line (a 1-mile distance is no longer the standard) contact with the affected herd since the last negative herd test or since the positive animal was last tested as negative. In some cases, with good records and past surveillance, an adjacent herd may be narrowed down to only those animals that shared a fence line with the positive animal(s) since its last negative test. Adjacent herds are placed under quarantine (6 months of age and older) until tested negative. With an initial negative herd test, quarantine is released. In most cases in Montana's DSA, adjacent herds test in the fall at the same time as pregnancy check. An assurance test is performed 6-12 months later. Most often at 12 months at the time of pregnancy check.