

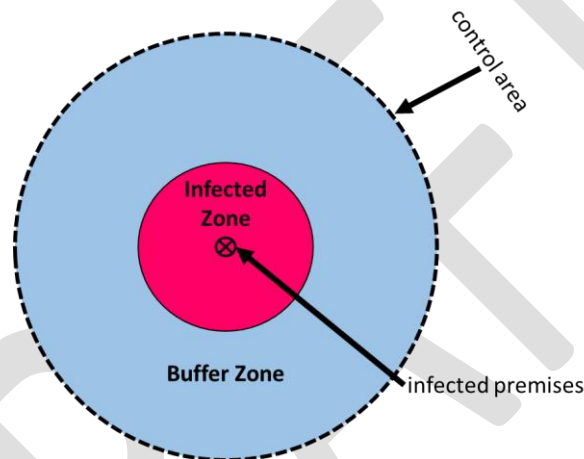
# General Control and Monitoring Zones Protocol

This is a draft plan and is subject to change

October 28, 2019

## Introduction:

If a foreign animal disease (FAD) is diagnosed or suspected in the United States and/or Iowa it may become necessary for the Iowa Department of Agriculture and Land Stewardship (IDALS) to establish various control and monitoring zones. At a minimum the following two zones comprising the Control Area will be established during a FAD event: infected zone and buffer zone.



The area of each zone and the need to create additional zones or areas will be determined based on the pathogenicity and epidemiology of the given FAD. If multiple premises are infected throughout Iowa, separate zones will be created around each premises that may or may not overlap based on the distance between the premises. If a zone is created in Iowa on the state line with a neighboring state, IDALS will work with USDA and that state's animal health officials to determine the extent of the zone outside of Iowa. The following lists the minimum perimeters of each zone but may be larger based on the epidemiology of the outbreak:

- **Infected Zone:** Perimeter should be at least 3 km (~1.86 miles) beyond perimeters of presumptive or confirmed Infected Premises.
- **Buffer Zone:** Perimeter should be at least 7 km (~4.35 miles) beyond the perimeter of the Infected Zone or any Contact Premises. Width is generally not less than the minimum area of the associated Infected Zone, but may be much larger
- **Control Area:** Perimeter should be at least 10 km (~6.21 miles) beyond the perimeter of the closest Infected Premises.

- 27 • **Surveillance Zone:** Perimeter should be at least 10 km (~6.21 miles) beyond the  
28 perimeter of the Control Area, but may be much larger.  
29

## 30 **Descriptions of Control Area and Zones:**

### 31 **Control Area**

32 A Control Area surrounding the Infected Premises, consisting of an Infected Zone and a Buffer  
33 Surveillance Zone, may be established to ensure the rapid and effective containment of a FAD.  
34 All animal movement of animals susceptible to the disease may be impacted for a period as  
35 described in the *IDALS General Standstill Protocol*. Potential modes of transmission will be  
36 considered when determining the minimum size and shape of a Control Area. Furthermore,  
37 any premises that is touched by the outer boundary of the Control Area will be included as part  
38 of the Control Area (i.e. the entire premises will be considered in the Control Area). Any  
39 premises with animals susceptible to the disease within the Control Area that is not deemed an  
40 Infected Premises, Suspect Premises, or Contact Premises will be designated a Monitored  
41 Premises.

### 42 **Infected Zone**

43 During a FAD outbreak, the Infected Zone initially will encompass the perimeter of all Infected  
44 Premises and may include as many of the Suspect Premises and Contact Premises as the  
45 situation requires logistically or scientifically. The boundaries may be modified (either  
46 expanded or reduced) as new information becomes available. The actual distance in any one  
47 direction may be determined by factors such as known characteristics of the disease,  
48 environmental conditions (terrain, weather, wind), the pattern of animal density and  
49 movements, the distribution and movements of susceptible wild and feral animals, processing  
50 activities (animals and products), and the effect on non-risk commodities. Boundaries of the  
51 Infected Zone can be modified when tracing and surveillance results become available and  
52 other factors become better defined.

53 *Activities in the Infected Zone include:*

- 54 a) Conducting epidemiological investigations.  
55 b) Identifying trace-ins and trace-outs.  
56 c) Determining source(s) of infection.  
57 d) Enforcing quarantines and/or movement restrictions.  
58 e) Preventing movement of vehicles, equipment, and non-susceptible animals out of the  
59 Infected Zone unless appropriate biosecurity procedures (as determined by risk  
60 assessment) are followed.  
61 f) Conducting a public awareness campaign to increase compliance with movement  
62 restrictions.

63 **Buffer Zone**

64 The Buffer Zone is the area immediately surrounding the Infected Zone and all Contact  
65 Premises. The Buffer Zone and the Infected Zone comprises the Control Area. The Buffer  
66 Zone can be reduced in size as more epidemiological information becomes available.

67 *Activities in the Buffer Zone:*

68 a) Surveillance on these At-Risk Premises may consist of a minimum of two inspections  
69 of susceptible animals during twice the maximum incubation period of the FAD.

70 **Surveillance Zone**

71 A Surveillance Zone may be established within and along the border of the Control Area.  
72 Surveillance within the Surveillance Zone will focus on premises determined to be at the  
73 highest risk of infection.

74 *Activities in the Surveillance Zone:*

75 a) Activities in the Surveillance Zone include conducting case finding activities  
76 (surveillance) and conducting a public awareness campaign to increase compliance.

77 **Free Area**

78 A Free Area is an area in which the absence of a FAD has been demonstrated by meeting  
79 requirements for disease-free status as specified by USDA.

80 *Activities in the Free Area:*

81 a) Within a Free Area, and at its borders, appropriate official veterinary controls are  
82 applied for susceptible animals, their products, as well as for their transportation.

83 **Vaccination Zone**

84 Under specific conditions, and if a vaccine is available, a vaccination strategy may be  
85 implemented to suppress the spread of a FAD or protect targeted high-risk susceptible animals.  
86 Depending on the strategy, a Vaccination Zone may be classified as either a Containment  
87 Vaccination Zone (typically inside a Control Area) or a Protection Vaccination Zone (typically  
88 outside a Control Area). This may be a secondary zone designation. Any premises housing  
89 susceptible animals vaccinated during a FAD vaccination strategy will be designated a  
90 Vaccinated Premises.

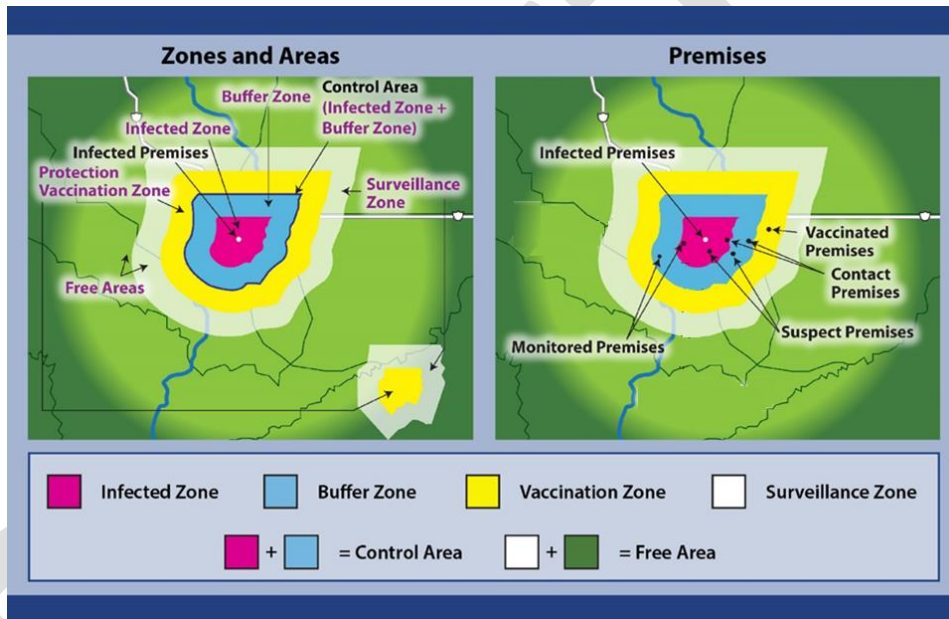
91 *Vaccination for FAD may be considered based on the following conditions:*

92 a) If allowed by the State Veterinarian **AND** USDA APHIS Veterinary Services.

93 b) If an appropriate, approved vaccine is available to provide immunological protection  
94 against the FAD involved in the outbreak.

- 95 c) If sufficient quantities of vaccine can be delivered to implement the vaccination  
96 strategy proposed.
- 97 d) If the vaccine has a DIVA (differentiate vaccinated from infected animal) attribute.
- 98 e) Protocols for distribution of vaccine and delivery to non-infected, susceptible animals  
99 are in place.
- 100 f) Vaccinated animals are permanently identified and tracked to the end of their life.

101  
102 The following displays an example of all potential zones and which premises would fall within  
103 them:  
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