

In the **Infected Zone** (which is *part of the Control Area*), there are movement controls and surveillance activities. Infected Premises are quarantined.

In the **Buffer Zone** (which is *part of the Control Area*), there are movement controls and surveillance activities.

In the **Surveillance Zone** (which is *part of the Free Area*), targeted poultry surveillance may be conducted (i.e. commercial premises).

In the **Free Area** (which *includes the Surveillance Zone*), routine or program surveillance may occur (i.e. NPIP and wild birds).

Infected Zone    
  Buffer Zone    
  Surveillance Zone  
 +  = Control Area    
  +  = Free Area

Zone/Area	Definition
Infected Zone (IZ)	Zone that immediately surrounds an Infected Premises.
Buffer Zone (BZ)	Zone that immediately surrounds an Infected Zone or a Contact Premises.
Control Area (CA)	Consists of an Infected Zone and a Buffer Zone.
Surveillance Zone (SZ)	Zone outside and along the border of a Control Area.
Free Area (FA)	Area not included in any Control Area.



**Infected, Contact, and Suspect Premises are subject to individual premises quarantines.  
At-Risk and Monitored Premises are subject to movement control restrictions.**

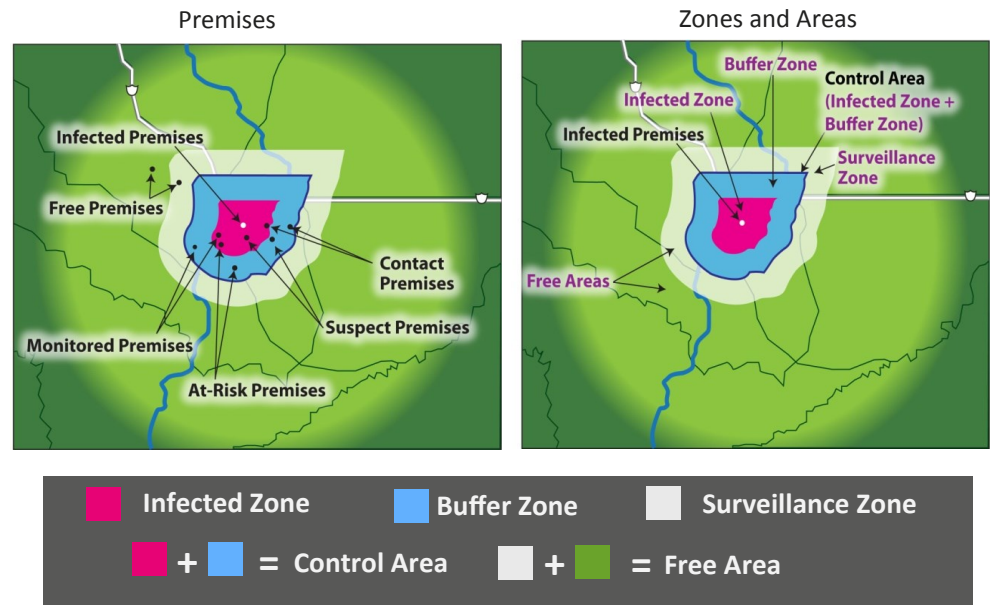
**Summary of Premises Designations**

Premises	Definition	Zone
Infected Premises (IP)	Premises where a presumptive positive case or confirmed positive case exists based on laboratory results, compatible clinical signs, HPAI case definition, and international standards.	Infected Zone
Contact Premises (CP)	Premises with susceptible animals that may have been exposed to HPAI, either directly or indirectly, including but not limited to exposure to animals, animal products, fomites, or people from Infected Premises.	Infected Zone, Buffer Zone
Suspect Premises (SP)	Premises under investigation due to the presence of susceptible animals reported to have clinical signs compatible with HPAI. This is intended to be a short-term premises designation.	Infected Zone, Buffer Zone, Surveillance Zone, Vaccination Zone
At-Risk Premises (ARP)	Premises that have susceptible animals, but none of those susceptible animals have clinical signs compatible with HPAI. Premises objectively demonstrates that it is not an Infected Premises, Contact Premises, or Suspect Premises. At-Risk Premises seek to move susceptible animals or products within the Control Area by permit. Only At-Risk Premises are eligible to become Monitored Premises.	Infected Zone, Buffer Zone
Monitored Premises (MP)	Premises objectively demonstrates that it is not an Infected Premises, Contact Premises, or Suspect Premises. Only At-Risk Premises are eligible to become Monitored Premises. Monitored Premises meet a set of defined criteria in seeking to move susceptible animals or products out of the Control Area by permit.	Infected Zone, Buffer Zone
Free Premises (FP)	Premises outside of a Control Area and not a Contact or Suspect Premises.	Surveillance Zone, Free Area

**Summary of Zone and Area Designations**

Zone/Area	Definition
Infected Zone (IZ)	Zone that immediately surrounds an Infected Premises.
Buffer Zone (BZ)	Zone that immediately surrounds an Infected Zone or a Contact Premises.
Control Area (CA)	Consists of an Infected Zone and a Buffer Zone.
Surveillance Zone (SZ)	Zone outside and along the border of a Control Area.
Free Area (FA)	Area not included in any Control Area.

**Example Zones, Areas, and Premises**



Note: Figures are not to scale.

**In an HPAI outbreak, the Incident Commander will work with the Disease Surveillance Branch and the Situation Unit to determine the appropriate designations.**



**Factors Used to Determine Control Area Size**

Factors	Additional Details
Jurisdictional areas	<ul style="list-style-type: none"> <li>Effectiveness and efficiency of administration</li> <li>Multi-jurisdictional considerations: local, State, Tribal, and multistate</li> </ul>
Physical boundaries	<ul style="list-style-type: none"> <li>Areas defined by geography</li> <li>Areas defined by distance between premises</li> </ul>
HPAI epidemiology	<ul style="list-style-type: none"> <li>Reproductive rate</li> <li>Incubation period</li> <li>Ease of transmission</li> <li>Infectious dose</li> <li>Species susceptibility</li> <li>Modes of transmission (such as, fecal-oral, droplet, aerosol, vectors)</li> <li>Survivability in the environment</li> <li>Ease of diagnosis (for example, no pathognomonic signs; requires diagnostic laboratory testing)</li> </ul>
Infected Premises characteristics	<ul style="list-style-type: none"> <li>Number of contacts</li> <li>Transmission pathways and transmission risk               <ul style="list-style-type: none"> <li>Extent of animal movement</li> <li>Number of animals</li> <li>Species of animals</li> </ul> </li> <li>Age of animals</li> <li>Movement of traffic and personnel to and from premises (fomite spread)</li> <li>Biosecurity measures in place at time of outbreak</li> </ul>
Contact Premises characteristics	<ul style="list-style-type: none"> <li>Number and types of premises</li> <li>Susceptible animal populations and population density</li> <li>Animal movements</li> <li>Movement of traffic (fomites) and personnel to and from premises (fomite spread)</li> <li>Biosecurity measures in place prior to outbreak</li> </ul>
Environment	<ul style="list-style-type: none"> <li>Types of premises in area or region</li> <li>Land use in area or region</li> <li>Susceptible wildlife and population density</li> <li>Wildlife as biological or mechanical vectors</li> </ul>
Climate (for aerosol spread diseases)	<ul style="list-style-type: none"> <li>Prevailing winds</li> <li>Humidity</li> </ul>
General area, region, or agricultural sector biosecurity	<ul style="list-style-type: none"> <li>Biosecurity practices in place prior to outbreak</li> <li>Biosecurity practices implemented once outbreak detected</li> </ul>
Number of backyard or transitional premises	<ul style="list-style-type: none"> <li>Types of premises, animal movements, and network of animal and fomite movements</li> </ul>
Continuity of business	<ul style="list-style-type: none"> <li>Continuity of business plans and processes in place or activated at beginning of outbreak (such as surveillance, negative diagnostic tests, premises biosecurity, and risk-assessments)</li> <li>Permit processes, memorandums of understanding, and information management systems in place or activated at beginning of outbreak</li> </ul>

**Minimum Sizes of Zones and Areas**

Zone or Area	Minimum Size and Details
Infected Zone (IZ)	Perimeter should be at least 3 km (~1.86 miles) beyond perimeters of presumptive or confirmed Infected Premises. Will depend on disease agent and epidemiological circumstances. This zone may be redefined as the outbreak continues.
Buffer Zone (BZ)	Perimeter should be at least 7 km (~4.35 miles) beyond the perimeter of the Infected Zone. Width is generally not less than the minimum radius of the associated Infected Zone, but may be much larger. This zone may be redefined as the outbreak continues.
Control Area (CA)	Perimeter should be at least 10 km (~6.21 miles) beyond the perimeter of the closest Infected Premises. Please see the table to the left for factors that influence the size of the Control Area. This area may be redefined as the outbreak continues.
Surveillance Zone (SZ)	Width should be at least 10 km (~6.21 miles), but may be much larger.

For more information, please go to:  
<http://www.aphis.usda.gov/fadprep>.

For more details on zones and premises designations, please see the [APHIS FAD Framework: Response Strategies \(Manual 2-0\)](#).

For the HPAI Response Plan: The Red Book, click [here](#).

For the Secure Egg Supply Plan, click [here](#).