



Hazard Resilience Strategies

Diseases

Diseases - Animals - Air & Water
Diseases - Animals - Human Transmitted
Diseases - Animals - Animal Transmitted
Diseases - Human - Air and Water Transmitted
Diseases - Human - Animal Transmitted
Diseases - Human - Human Transmitted
Diseases - Human - Food Transmitted
Diseases - Plants - Human Controlled
Diseases - Plants - General
Diseases - Plant and Pest Infestations

Diseases – Animals ^{1 2 3 4 5 6}

Air and Water Transmitted

- Ensure community-based exercises involving air and water transmitted diseases to animals have taken place in the community-at-large (e.g., table-top or full-scale exercises)
- Ensure farmers immediately quarantine any sick animals in order to prevent the spread of disease.
- Ensure farmers monitor and test water quality for livestock on a regular basis.
- Ensure most farmers have vaccinated/immunized their livestock herds as appropriate.
- Ensure the local veterinarian is linked to the *Canadian Network for Public Health Intelligence* and the *Canadian Animal Health Surveillance Network*.
- Ensure there is a warning system in place to notify community residents, farmers and businesses of air and water transmitted diseases to animals and how to protect against them.

Human Transmitted

- Ensure community-based exercises involving human to animal transmitted diseases exercises have taken place in the community-at-large (e.g., table-top or full-scale exercises)
- Ensure farmers do not feed livestock any food with supplements containing meat or bone or meal.
- Ensure farmers immediately quarantine any sick animals in order to prevent the spread of disease.
- Ensure hand washing stations and sanitizers are available throughout the community and farms.
- Ensure most farmers have joined the Canadian On-Farm Food Safety Program that is based on the internationally accepted food safety control system called *Hazard Analysis Critical Control Point*.
- Ensure most farmers have vaccinated/immunized their livestock herds as appropriate.
- Ensure most farmers wash hands and surfaces thoroughly and regularly especially after handling animals or around the sick.
- Ensure most farmers wear protective gear when handling animals (agricultural and wild animals)
- Ensure the local veterinarian is linked to the *Canadian Network for Public Health Intelligence* and the *Canadian Animal Health Surveillance Network*
- Ensure there is a warning system in place to notify community residents, farmers and businesses of human to animal transmitted diseases and how to protect against them.
- Ensure most farmers require visitors to wear special boots and overalls to avoid spreading diseases to livestock.

Animal Transmitted

- Ensure community-based exercises involving animal to animal transmitted diseases have taken place in the community-at-large (e.g., table-top or full-scale exercises)
- Ensure farmers immediately quarantine any sick animals in order to prevent the spread of disease.
- Ensure farmers quarantine new animals prior to introducing them to the rest of the herd for at least two weeks.
- Ensure hand washing stations and sanitizers are available throughout the community and farms.
- Ensure most farmers have joined the Canadian On-Farm Food Safety Program that is based on the internationally accepted food safety control system called *Hazard Analysis Critical Control Point*.
- Ensure most farmers have vaccinated/immunized their livestock herds as appropriate.
- Ensure most farmers wash hands and surfaces thoroughly and regularly especially after handling animals or around the sick.
- Ensure most farmers wear protective gear when handling animals (agricultural and wild animals)
- Ensure most household pets have received a rabies vaccination.

- Ensure the community regulates the number of small and/or backyard poultry farms in close proximity to large commercial poultry farms.
- Ensure the local veterinarian is linked to the *Canadian Network for Public Health Intelligence* and the *Canadian Animal Health Surveillance Network*
- Ensure there is a warning system in place to notify community residents, farmers and businesses of animal to animal transmitted diseases and how to protect against them.

Diseases – Human ^{7 8 9 10 11 12 13}

Air and Water Transmitted

- Ensure community-based exercises involving air and water transmitted human diseases and epidemics have taken place in the community-at-large (e.g., table-top or full-scale exercises)
- Ensure hand washing stations and sanitizers are available throughout the community and farms.
- Ensure most caregivers in seniors' homes and day care providers know to wash their hands and surfaces thoroughly and regularly especially after being around sick persons.
- Ensure most residents have been vaccinated/immunized; particularly the vulnerable groups like children, the elderly, and sick.
- Ensure the community regularly tests water systems for adequate chlorination levels and for a bacterial and virus count?)
- Ensure there is a public health warning system in place to notify community residents and businesses of air and water transmitted human diseases and how to protect against them.
- Ensure there is a public health warning system in place to notify police, fire and ambulance personnel of air and water transmitted human diseases and epidemics
- Animal Transmitted
- Ensure community-based exercises involving animal to human transmitted diseases have taken place in the community-at-large (e.g., table-top or full-scale exercises)
- Ensure hand washing stations and sanitizers are available throughout the community and farms.
- Ensure most farmers have vaccinated/immunized their livestock herds as appropriate.
- Ensure most residents ensure that there are no standing pools of water for mosquitoes to breed.
- Ensure the community has mosquito control measures in place. .
- Ensure the local veterinarian is linked to the *Canadian Network for Public Health Intelligence* and the *Canadian Animal Health Surveillance Network*
- Ensure there is a public health warning system in place to notify community residents, farmers and businesses of animal to human transmitted diseases and how to protect against them.

Human Transmitted

- Ensure community-based exercises involving human to human transmitted diseases have taken place in the community-at-large and the Public Health Agency Pandemic Influenza Exercise for the Health and Emergency Social Services Sectors has been reviewed and or used (e.g., table-top or full-scale exercises)
- Ensure hand washing stations and sanitizers are available throughout the community and farms.
- Ensure Health Care Practitioners access the weekly Canada Communicable Disease Report and advise residents accordingly.
- Ensure most caregivers in seniors' homes and day care providers know to wash their hands and surfaces thoroughly and regularly especially after being around sick persons.
- Ensure most residents have been vaccinated/immunized; particularly the vulnerable groups like children, the elderly, and sick.
- Ensure there is a public health warning system in place to notify community residents and businesses of human to human transmitted diseases and how to protect against them.
- Ensure there is a public health warning system in place to notify police, fire and ambulance personnel of human to human transmitted diseases.

Food Transmitted

- Ensure community-based exercises involving food transmitted diseases to humans have taken place in the community-at-large (e.g., table-top or full-scale exercises)
- Ensure farmers eat only on-farm slaughter of livestock if the animal is healthy and in good condition.
- Ensure Health Inspectors regularly inspect local restaurants and community kitchens
- Ensure most hunters know to only eat meat from wild deer and elk that appear to be healthy and in good condition.
- Ensure most residents drink only pasteurized milk and buy meat that has been federally inspected.
- Ensure public health inspectors regularly inspect farms and farm workers to ensure good hygienic practices.
- Ensure there is a public health warning system in place to notify community residents, farmers and businesses of food transmitted diseases to humans and how to protect against them.
- Ensure there is a public health warning system in place to notify community residents, visitors and businesses of at risk shellfish and seafood to humans and how to protect against them.
- Ensure there is a public health warning system in place to notify police, fire and ambulance personnel of food transmitted diseases to humans

Diseases – Plants ^{14 15 16 17}

Human Controlled

- Ensure community-based exercises involving plant diseases have taken place in the community-at-large (e.g., table-top or full-scale exercises)
- Ensure farmers and operators of tree nurseries carefully monitor imported plants to ensure that they do not spread new and/or exotic diseases to existing plants.
- Ensure farmers have a quarantine plan in place to deal with diseased plants.
- Ensure farmers have considered using film technology to coat the surface of crops protecting them from pests and diseases where applicable.
- Ensure farmers have diagnostic and surveillance programs in place to catch infections at the early stages.
- Ensure most farmers use a diverse range of agricultural crops.
- Ensure most farmers use environmentally-sensitive pesticides and fungicides to treat plants.
- Ensure there is a warning system in place to notify community residents, farmers and businesses of plant diseases and how to protect against them.

General

- Ensure community-based exercises involving plant diseases have taken place in the community-at-large (e.g., table-top or full-scale exercises)
- Ensure farmers have a quarantine plan in place to deal with diseased plants.
- Ensure farmers have considered using film technology to coat the surface of crops protecting them from pests and diseases where applicable.
- Ensure farmers have diagnostic and surveillance programs in place to catch infections at the early stages.
- Ensure most farmers use a diverse range of agricultural crops.
- Ensure most farmers use environmentally-sensitive pesticides and fungicides to treat plants.
- Ensure there is a warning system in place to notify community residents, farmers and businesses of plant diseases and how to protect against them.

Pest infestations

- Ensure community-based exercises involving pest infestations have taken place in the community-at-large (e.g., table-top or full-scale exercises)
- Ensure farmers have a quarantine plan in place to deal with infested plants.
- Ensure farmers have considered using film technology to coat the surface of crops protecting them from pests and diseases where applicable.
- Ensure farmers have diagnostic and surveillance programs in place to catch infestations at the early stages.

- Ensure Ministry of Forest's officials regularly survey surrounding forests to determine if there are any pest infestations
- Ensure most farmers use a diverse range of agricultural crops.
- Ensure most farmers use environmentally-sensitive pesticides and fungicides to treat plants.
- Ensure there is a warning system in place to notify community residents, farmers and businesses of plant infestations and how to protect against them.

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