

**SUMMARY OF DISEASES AFFECTING MICHIGAN WILDLIFE
2015**

ABSCESS

- Abdominal
 - Eastern Fox Squirrel, Trumpeter Swan, Wild Turkey
- Airsac
 - Canada Goose
- Articular
 - White-tailed Deer
- Cranial
 - White-tailed Deer
- Dermal
 - White-tailed Deer
- Hepatic
 - White-tailed Deer, Red-tailed Hawk, Wild Turkey
- Intramuscular
 - White-tailed Deer
- Muscular
 - Moose, White-tailed Deer, Wild Turkey
- Ocular
 - White-tailed Deer
- Pulmonary
 - Granulomatous
 - Focal
 - White-tailed Deer
 - Unspecified
 - White-tailed Deer, Raccoon, Canada Goose
- Skeletal
 - Mourning Dove
- Subcutaneous
 - White-tailed Deer, Raccoon, Eastern Fox Squirrel, Mute Swan
- Thoracic
 - White-tailed Deer
- Unspecified
 - White-tailed Deer

ADHESION

- Pleural
 - White-tailed Deer

AIRSACULITIS

Egg Yolk

Canada Goose

Fibrinous

Chronic

Bald Eagle, Red-tailed Hawk, Canada Goose, Mallard, Wild Turkey

Mycotic

Trumpeter Swan, Canada Goose

Necrotic

Caseous

Chronic

Bald Eagle

Unspecified

Chronic

Bald Eagle, Peregrine Falcon, Mute Swan, Redhead, Wild Turkey,
Mallard, Mourning Dove

Unspecified

Snowy Owl, Common Raven, Rock Dove

Unspecified

Snowy Owl, Merlin, Wild Turkey, American Crow

Urate

Red-tailed Hawk

ANOMALY

Congenital

White-tailed Deer

ARTHROSIS

Inflammatory

Cooper's Hawk

ASCITES

Hemorrhagic

White-tailed Deer, Red Fox, Beaver

ASPERGILLOSIS

Airsac

American Robin

Cranial

American Robin

Pulmonary

Trumpeter Swan, Blue Jay

ASPERGILLOSIS (CONTINUED)

Splenic

American Robin

Unspecified

Red-tailed Hawk, Snowy Owl, Trumpeter Swan, Canada Goose, Common Loon, Ring-billed Gull, American Crow, Blue Jay, European Starling

BLINDNESS

White-tailed Deer

BOTULISM

Type C

Mallard

Type E

Red-necked Grebe, Ring-billed Gull

BRONCHIOLITIS

Mild

Raccoon

BRONCHOPNEUMONIA

Bacterial

Acute (*Pasteurella sp.* probable)

Eastern Fox Squirrel, Eastern Gray Squirrel

Unspecified

White-tailed Deer

Suppurative

Moderate

Raccoon

Unspecified

Coyote

Unspecified

Big Brown Bat, Snowy Owl

CATARACT

Bilateral

Severe

Raccoon

Unspecified

Red-tailed Hawk

Hypermature (with capsular rupture)

White-tailed Deer

CATARACT (CONTINUED)

Unspecified

White-tailed Deer

CAVITATION

Oral

White-tailed Deer

CECITIS

Hemorrhagic (Probable Bacterial)

White-tailed Deer

CHRONIC WASTING DISEASE

White-tailed Deer

COCCIDIOSIS

Renal

Canada Goose

CONGESTION

Cranial

White-tailed Deer

Pulmonary

White-tailed Deer, Feral Swine, Black Bear, Gray Wolf, Coyote, Red Fox, Gray Fox, Raccoon, Beaver, Mink, Muskrat, Least Weasel, Woodchuck, Striped Skunk, Cottontail Rabbit, Eastern Fox Squirrel, Eastern Gray Squirrel, Big Brown Bat, Little Brown Bat, Bald Eagle, Osprey, Peregrine Falcon, Red-tailed Hawk, Red-shouldered Hawk, Cooper's Hawk, Broad-winged Hawk, Northern Goshawk, Merlin, Snowy Owl, Great Horned Owl, Barred Owl, Screech Owl, Trumpeter Swan, Mute Swan, Canada Goose, Common Loon, Mallard, Canvasback, Common Goldeneye, Lesser Scaup, Long-tailed Duck, Redhead, Wood Duck, Red-necked Grebe, Herring Gull, Bonaparte's Gull, Ring-billed Gull, Wild Turkey, Common Raven, American Crow, Common Grackle, European Starling, Blue Jay, American Robin, Cedar Waxwing, House Sparrow, Northern Oriole, Dark-eyed Junco, Eastern Bluebird

Splenic

Wild Turkey

CORN TOXICITY

White-tailed Deer

CUFFING (PROBABLY DUE TO LARVAL PARASITE MIGRATION)

Lymphoplasmacytic

Focal

Raccoon

Perivascular

Eosinophilic

Raccoon

CYSTICERCOSIS/COENUROSIS

Taenia (Multiceps) serialis

Snowshoe Hare

Taenia hydatigena

White-tailed Deer

Echinococcus granulosus

White-tailed Deer

DEFORMITY

Congenital

White-tailed Deer, Osprey (Possible)

DEGENERATION

Myxomatous (Heart Valve)

White-tailed Deer

Retinal

Mallard

DEHYDRATION

White-tailed Deer, Coyote, Gray Fox, Eastern Fox Squirrel, Eastern Gray Squirrel, Bald Eagle, Peregrine Falcon, Osprey, Red-tailed Hawk, Cooper's Hawk, Snowy Owl, Great Horned Owl, Long-Eared Owl, Screech Owl, Trumpeter Swan, Mute Swan, Common Loon, Great Blue Heron, Wild Turkey, Common Raven, American Crow

DERMATITIS

Bacterial (*Staphylococcus* sp.)

Erosive

Multifocal

Little Brown Bat

Necrotizing

Superficial

Eastern Fox Squirrel

Unspecified

Wild Turkey

DERMATITIS (CONTINUED)

Clostridial

Great Horned Owl

Fungal

Big Brown Bat

Proliferative and Necrotizing (Turkey Pox)

Wild Turkey

DETACHMENT

Retinal

Diffuse

White-tailed Deer

Unspecified

White-tailed Deer, Mallard

DISTEMPER

Canine

Coyote, Red Fox, Gray Fox, Raccoon, Striped Skunk

DROWNING

White-tailed Deer (Possible), Black Bear (Possible), Gray Wolf, Big Brown Bat (Possible), Bald Eagle, Common Loon, Canada Goose, Wood Duck, Red-necked Grebe

DYSGENESIS

Anterior Segment

White-tailed Deer

ECHINOCOCCOSIS

Echinococcus granulosus

White-tailed Deer

EDEMA

Corneal

White-tailed Deer

Pulmonary

White-tailed Deer, Black Bear, Coyote, Red Fox, Gray Fox, Beaver, Mink, Least Weasel, Striped Skunk, Raccoon, Woodchuck, Cottontail Rabbit, Eastern Fox Squirrel, Eastern Gray Squirrel, Big Brown Bat, Little Brown Bat, Bald Eagle, Peregrine Falcon, Osprey, Red-shouldered Hawk, Red-tailed Hawk, Cooper's Hawk, Broad-winged Hawk, Northern Goshawk, Merlin, Snowy Owl, Great Horned Owl, Barred Owl, Screech Owl, Trumpeter Swan, Mute Swan, Canada Goose, Common Loon, Mallard, Canvasback, Common Goldeneye, Gadwall, Wood Duck, Redhead, Red-necked Grebe, Lesser Scaup,

EDEMA (CONTINUED)

Pulmonary (continued)

Herring Gull, Ring-billed Gull, Bonaparte's Gull, Wild Turkey, Common Raven, American Crow, Blue Jay, European Starling, Common Grackle, American Robin, Cedar Waxwing, Dark-eyed Junco, Northern Oriole, House Sparrow, Eastern Bluebird

Subcutaneous

Hemorrhagic

White-tailed Deer

EGG

Infertile

Common Loon

ELECTROCUTION

Powerline

Bald Eagle

Unspecified

Bald Eagle, Red-shouldered Hawk, Snowy Owl, Downy Woodpecker, Blue Jay, Baltimore Oriole, American Goldfinch

ENCEPHALITIS

Eastern Equine

White-tailed Deer

Perivascular

Moderate

Elk

ENDOCARDITIS

Bacterial (Probable *Streptococcus* sp. or *Staphylococcus* sp.)

White-tailed Deer

Valvular

White-tailed Deer

ENTERITIS

Bacterial

Hemorrhagic

Clostridium perfringens

White-tailed Deer

Unspecified

White-tailed Deer (Probable)

Unspecified (*Clostridium* sp.)

Eastern Bluebird

ENTERITIS (CONTINUED)

Hemorrhagic

Gray wolf (possible), Snowy Owl

Necrotizing

Bacterial (Possible)

Trumpeter Swan

Ulcerative

Hemorrhagic

Verminous

Mute Swan

EPICARDITIS

Fibrinous

Chronic

White-tailed Deer, Snowy Owl, Canada Goose

Necrotic

Chronic

Snowy Owl

ESOPHAGITIS

Necrotic

House Finch

Suppurative

House Finch

Unspecified

Chronic

Canada Goose

EXPOSURE

Gray Wolf (Possible), Coyote, Red Fox, Bald Eagle (Possible), Red-tailed Hawk, Screech Owl,
American Crow, Common Grackle, House Sparrow

FAILURE

Cardiac

Bald Eagle

FASCIOLIDIASIS

Moose, White-tailed Deer

FIBROSIS

- Cardiac
 - Ventricular
 - Bald Eagle
- Intralenticular
 - Extensive
 - White-tailed Deer
- Meningeal
 - Focal
 - Red-tailed Hawk
- Perilenticular
 - Extensive
 - White-tailed Deer
- Stromal
 - Superficial
 - White-tailed Deer
- Subepithelial
 - Extensive
 - White-tailed Deer

FURUNCULOSIS

- Pyogranulomatous (Bacterial)
 - White-tailed Deer

GLOMERULONEPHRITIS

- Membranoproliferative
 - Global
 - Diffuse
 - Severe
 - Beaver

GLOSSITIS

- Secondary
 - White-tailed Deer

GOUT

- Renal
 - Severe
 - Screech Owl, Mallard
 - Unspecified
 - Wild Turkey

GOUT (CONTINUED)

Visceral

Bald Eagle, Trumpeter Swan

GRANULOMAS

Bacterial (*Staphylococcus sp.*)

Pulmonary

Wild Turkey

HEMORRHAGE

Agonal

White-tailed Deer

Cranial

White-tailed Deer

Pulmonary

Black Bear, Muskrat, Cottontail Rabbit

Spontaneous

Eastern Fox Squirrel

HEMOSIDEROSIS

Splenic (Possible Parasitic)

Moderate

Blue Jay

HEMOTHORAX

White-tailed Deer, Beaver, Big Brown Bat

HEPATITIS

Necrotic

Chronic

Wild Turkey

Unspecified

Raccoon, Wild Turkey

Necrotizing

Multifocal

Mild to Moderate

White-tailed Deer

Viral

Herpesvirus

Great Horned Owl

Unspecified

Great Horned Owl, Mute Swan

Unspecified

Cottontail Rabbit

HEPATITIS (CONTINUED)

Urate

Red-tailed Hawk

HERNIA

Diaphragmatic

White-tailed Deer

HISTOMONIASIS

Wild Turkey

HYPERPLASIA

Lymphoid

Reactive

Moderate

White-tailed Deer

IMBALANCE

Electrolyte

White-tailed Deer

IMPACTION

Crop

Canada Goose

Esophageal

Canada Goose

INFECTION

Bacterial

Chronic

White-tailed Deer

Secondary

Staphylococcus sp.

Black Bear, Eastern Fox Squirrel, Little Brown Bat, Canada Goose, Wild

Turkey, American Crow

Unspecified

White-tailed Deer, Eastern Fox Squirrel, Little Brown Bat, Bald Eagle

Streptococcus uberis and Pseudomonas sp.

White-tailed Deer

Unspecified

Bald Eagle, Mute Swan

INFESTATION

Louse

Sucking

Eastern Fox Squirrel

Unspecified

White-tailed Deer, Snowy Owl, Wild Turkey

Mycotic

Big Brown Bat

INFLUENZA

Avian (H5N2)

Canada Goose

KERATITIS

Neutrophilic

White-tailed Deer

Ulcerative

Chronic

White-tailed Deer

LEIOMYOSITIS

Verminous

Heterophilic and Mononuclear

Multifocal

Moderate

American Robin

LIPIDOSIS

Hepatic

Focal

White-tailed Deer

LYMPHADENITIS

Suppurative

Mild

White-tailed Deer

LYMPHOPROLIFERATIVE DISEASE (POSSIBLE)

Wild Turkey

MALNUTRITION

White-tailed Deer, Black Bear, Gray Wolf, Coyote, Red Fox, Gray Fox, Raccoon, Least Weasel, Muskrat, Eastern Fox Squirrel, Big Brown Bat, Little Brown Bat, Bald Eagle, Osprey, Peregrine Falcon, Red-tailed Hawk, Broad-winged Hawk, Cooper's Hawk, Northern Goshawk, Snowy Owl, Great Horned Owl, Barred Owl, Screech Owl, Trumpeter Swan, Mute Swan, Tundra Swan, Canada Goose, Common Loon, Canvasback, Long-tailed Duck, Common Goldeneye, Herring Gull, Great Blue Heron, Wild Turkey, Rock Dove, American Crow, Common Grackle, American Robin

MANGE

Demodectic

White-tailed Deer

Sarcoptic

Black Bear, Gray Wolf (Probable, old infestation), Coyote, Red Fox

MENINGITIS

Eosinophilic (Parasitic)

Mild (*Parelaphostrongylus tenuis*)

White-tailed Deer

Mild to Multifocally Moderate

Elk

Non-Suppurative

Moose

MENINGOENCEPHALITIS

Bacterial

Staphylococcus sp.

Severe

Elk

Unspecified

Focal

White-tailed Deer

Eosinophilic

Parasitic (*Baylisascaris procyonis*)

Severe

Woodchuck

Lympho-Plasmacytic

Severe

Woodchuck

MENINGOENCEPHALITIS (*CONTINUED*)

Non-Heterophilic
Mild
 Unspecified
 Canada Goose
Viral
 Canada Goose
Non-Suppurative
Moderate
 White-tailed Deer
Suppurative (Bacterial)
Moderate
 Woodchuck

METRITIS

Hemorrhagic
 Gray Wolf

MYCOPLASMOSIS

House Finch

MYIASIS

White-tailed Deer

MYOCARDITIS

Necrotizing
 Multifocal
 Unspecified
 White-tailed Deer
Viral
 Mute Swan

MYOPATHY

Capture (Trap)
 Coyote

MYOSITIS

Fibrino-Suppurative
Severe
 White-tailed Deer

NEGLECT

Maternal

White-tailed Deer

NEMATODIASIS

Abdominal

Setaria yehi

White-tailed Deer

Unspecified

White-tailed Deer

Cardiac

Dirofilaria immitis

Coyote

Sarconema eurycerca

Trumpeter Swan

Cerebral

Chandlerella quisquali (probable)

Common Grackle

Pulmonary

Dictyocaulus sp.

White-tailed Deer

Unspecified

White-tailed Deer

Subcutaneous

Dracunculus sp.

Fisher (Probable), American Martin

Tracheal

Syngamus or *Cyathostoma* sp. (Probable)

Great Horned Owl

NEPHRITIS

Coccidial

Moderate

Canada Goose

Tubulo-Interstitial (likely *Eimeria truncata*)

Canada Goose

Interstitial

Lymphoplasmacytic

Multifocal

Moderate

Canada Goose

NEPHRITIS (CONTINUED)

Urate

Red-tailed Hawk

OVERDOSE

Drug (Possible)

White-tailed Deer

PANOPHTHALMITIS

Fibrinonecrotizing

Subacute

Severe

White-tailed Deer

Suppurative

White-tailed Deer

PERFORATION

Corneal

White-tailed Deer

PERICARDITIS

Fibrinous

Chronic

Moose, White-tailed Deer, Raccoon, Red-tailed Hawk, Canada Goose, Wild Turkey

Necrotic

Chronic

Snowy Owl, Mourning Dove

PERITONITIS

Egg Yolk

Wild Turkey, American Robin

Fibrinous

Chronic

White-tailed Deer, Peregrine Falcon, Canada Goose

Granulomatous

Chronic

White-tailed Deer

Necrotic

Caseous

Chronic

Bald Eagle

PERITONITIS (*CONTINUED*)

Necrotic (*continued*)

Unspecified

Chronic

Peregrine Falcon, Wild Turkey

Necrotizing

Chronic

White-tailed Deer

Unspecified

White-tailed Deer, Wild Turkey

PEROSIS

Osprey

PLEURITIS

Bacterial

White-tailed Deer, Eastern Fox Squirrel

Fibrinous

Chronic

White-tailed Deer, Raccoon, Mallard

Unspecified

White-tailed Deer

Fibrino-Suppurative

White-tailed Deer

Necrotic

Chronic

Snowy Owl

Suppurative

Chronic

White-tailed Deer

PLEXITIS

Choroid

Non-Suppurative

Moose

Unspecified

Woodchuck

PNEUMONIA

Aspiration

Bald Eagle

PNEUMONIA (CONTINUED)

Bacterial

White-tailed Deer, Eastern Fox Squirrel, Canada Goose, American Crow

Bronchointerstitial

Multifocal

Moderate

Raccoon

Fibrinous

Chronic

White-tailed Deer

Fibrino-Necrotizing

Eastern Fox Squirrel

Interstitial

Bacterial

Focal

Gray Wolf

Heterophilic

Moderate

Canada Goose

Lymphocytic

Canada Goose

Lymphoplasmacytic

Mild to Moderate

Raccoon

Mild

White-tailed Deer, Coyote, Red Fox, Gray Fox, Raccoon, Striped Skunk

Moderate

Red Fox, Raccoon, Little Brown Bat

Multifocal

Mild

White-tailed Deer

Unspecified

White-tailed Deer, Coyote, Bobcat, Red Fox, Gray Fox, Raccoon, Eastern Fox Squirrel

Mycotic

Aspergillus sp.

Red-shouldered Hawk

Unspecified

Gray Wolf

Necrotic

White-tailed Deer

PNEUMONIA (CONTINUED)

- Necrotizing
 - Eastern Fox Squirrel
- Suppurative
 - Chronic
 - White-tailed Deer
 - Unspecified
 - White-tailed deer
- Unspecified
 - White-tailed Deer

POISONING

- Anticoagulant
 - Bromadiolone
 - Eastern Gray Squirrel
 - Brodifacoum
 - Red Fox, Gray Fox
- Caffeine (Possible)
 - Ring-billed Gull
- Diazinon
 - Mallard
- Lead
 - Acute
 - Bald Eagle, Common Merganser
 - Chronic
 - Bald Eagle, Trumpeter Swan, Tundra Swan, Canada Goose, Common Loon, Canvasback, Mallard, Common Goldeneye
- Pentobarbital
 - American Crow

Pox

- Avian
 - Canada Goose, Wild Turkey, American Crow
- Squirrel
 - Eastern Fox Squirrel
- Turkey
 - Cutaneous
 - Wild Turkey
 - Diphtheritic
 - Wild Turkey

RABIES

Little Brown Bat

RUPTURE

Cataract

Bilateral

White-tailed Deer

Lens

White-tailed Deer, Mallard

Follicle

Ovarian

Mallard

SARCOCYSTOSIS

Cottontail Rabbit

SEPTICEMIA

White-tailed Deer, Gray Wolf, Beaver (Possible), Eastern Fox Squirrel, Mute Swan (Possible),
Great Horned Owl (Possible), Wild Turkey

SHOCK

Gray Wolf

SPLENITIS

Bacterial

Eastern Fox Squirrel

Necrotizing

Multifocal

Viral

Herpesvirus

Great Horned Owl

Unspecified

Great Horned Owl, Mute Swan

SPLENOMEGALY

Wild Turkey

STARVATION

Elk, White-tailed Deer, Bobcat, Red-tailed Hawk, Cooper's Hawk, Snowy Owl, Great Horned Owl,
Barred Owl, Long-Eared Owl, Screech Owl, Mute Swan, Tundra Swan, Canvasback, Common
Goldeneye, Gadwall, Lesser Scaup, Redhead, Wild Turkey

STOMATITIS

Bacterial (*Staphylococcus* sp.)
Wild Turkey

STRESS

Handling

Canada Goose

Trap Related

White-tailed Deer, Gray Wolf

Snare

Feral Swine

Unspecified

Gray Wolf, Feral Swine, Eastern Fox Squirrel, Big Brown Bat, Little Brown Bat, Bald Eagle, Osprey (Possible), Canada Goose, Common Loon, Mallard, Wood Duck, American Crow, Blue Jay (Possible), Common Grackle, European Starling, American Robin, House Sparrow

SUFFOCATION

Feral Swine (Probable)

SYNECHIA

Anterior (to the cornea)

White-tailed Deer

TAGS

Skin (Acrochordon)

Multiple

Coyote

TAMPONADE

Cardiac

White-tailed Deer

TOXOPLASMOSIS

Eastern Fox Squirrel

TRAUMA

Moose, Elk, Mule deer, White-tailed deer, Black Bear, Gray Wolf, Coyote, Feral Swine, Red Fox, Gray Fox, Bobcat, River Otter, Fisher, American Marten, Muskrat, Raccoon, Opossum, Armadillo, Cottontail Rabbit, Eastern Fox Squirrel, Eastern Gray Squirrel, Big Brown Bat, Bald Eagle, Peregrine Falcon, Osprey, Red-tailed Hawk, Cooper's Hawk, Sharp-shinned Hawk, Merlin, Snowy Owl, Great Horned Owl, Barred Owl, Screech Owl, Saw-Whet Owl, Mute Swan, Trumpeter Swan, Common Loon, Double-crested Cormorant, Canada Goose, Mallard, Green-winged Teal,

TRAUMA (CONTINUED)

Wood Duck, Ring-billed Gull, Herring Gull, Great Blue Heron, Wild Turkey, Mourning Dove, Rock Dove, Ruffed Grouse, Ring-necked Pheasant, American Woodcock, Common Raven, American Crow, Common Grackle, European Starling, Blue Jay, Pileated Woodpecker, Hairy Woodpecker, Northern Flicker, Cedar Waxwing, Northern Cardinal, American Robin, Swainson's Thrush, Gray Catbird, House Sparrow, Fox Sparrow, House Finch, Eastern Massasauga Rattlesnake

TRICHOMONIASIS

Rock Dove

TUBERCULOSIS

Bovine

White-tailed Deer

TUMOR

Polyp

Abomasal

Multifocal

White-tailed Deer

Sarcoma (Soft Tissue)

White-tailed Deer

ULCERATION

Corneal

Extensive

White-tailed Deer

Tongue

White-tailed Deer

WEST NILE VIRUS

Moose, Elk, White-tailed Deer, Eastern Fox Squirrel, Big Brown Bat, Bald Eagle, Osprey, Peregrine Falcon, Red-tailed Hawk, Red-shouldered Hawk, Cooper's Hawk, Broad-winged Hawk, Northern Goshawk, Snowy Owl, Great Horned Owl, Screech Owl, Canada Goose, Mallard, Long-tailed Duck, Ring-billed Gull, Herring Gull, Wild Turkey, Mourning Dove, Common Raven, American Crow, Blue Jay, Common Grackle, European Starling, Red-winged Blackbird, Purple Martin, Northern Oriole, American Robin, Chipping Sparrow, House Sparrow, House Finch

WHITE NOSE SYNDROME

Big Brown Bat, Little Brown Bat, Northern Long-eared Bat