Summary of Diseases Affecting Michigan Wildlife
2014

ABNORMAL WEAR PATTERN (HOOF)
White-tailed Deer

ABSCESS
Articular
White-tailed Deer, Bald Eagle

Cranial
White-tailed Deer

Cuticular
Bald Eagle

Diaphragmatic
White-tailed Deer

Gonadal
White-tailed Deer

Hepatic
White-tailed Deer, Great Blue Heron

Intestinal
White-tailed Deer

Muscular
White-tailed Deer, Cottontail Rabbit, Bald Eagle, Common Loon

Pulmonary
Pleural
Multiple
White-tailed Deer

Unspecified
White-tailed Deer

Skeletal (Sinus)
White-tailed Deer, Bald Eagle

Subcutaneous
White-tailed Deer, Bald Eagle, Common Loon
**ABSCESS (continued)**
- Tracheal
  - Red-winged Blackbird

  Unspecified
  - White-tailed Deer

**ACTINOMYCOSIS**
- White-tailed Deer

**AIRSACculITIS**
- Bacterial
  - Great Blue Heron

- Fibrinous
  - Chronic
    - Trumpeter Swan

- Ingesta
  - Canada Goose

- Mycotic
  - Bald Eagle, Trumpeter Swan, Common Loon, Ring-billed Gull

- Necrotic
  - Caseous
    - Chronic
      - Common Loon, American Coot

  - Unspecified
    - Chronic
      - Common Loon, Greater Scaup, American Crow

  - Unspecified
    - Great Blue Heron

**ALVEOLITIS**
- Histiocytic
  - Diffuse
    - Moderate
      - Striped Skunk

**ANthracOSIS**
- Pulmonary
  - Moderate to Severe
    - Great Horned Owl
ARThritis
   Necrotic
   Chronic
   Red-tailed Hawk

ASCITES
   White-tailed Deer

ASPERGILLOSIS
   Pulmonary (Ingesta)
   Canada Goose

   Unspecified
   Bald Eagle, Red-tailed Hawk, Trumpeter Swan, Common Loon, Mallard, Ring-billed Gull, American Crow

Atelectasis
   Pulmonary
   Mild
   Raccoon

Botulism
   Type C
   Mallard

Bronchopneumonia
   Bacterial
   Necrosuppurative
   White-tailed Deer

   Unspecified
   White-tailed Deer

Canal
   Cerebrospinal
   Dilated
   Red-tailed Hawk

Cataracts
   Mature
   Bilateral
   American Kestrel

   Unspecified
   Bilateral
   White-tailed Deer
CESTODIASIS
Intestinal
  *Echinococcus granulosus*
  Gray Wolf

CHOLEHEPATITIS
Suppurative
  Severe
  White-tailed Deer

CONGESTION
Hepatic
  White-tailed Deer, Red-tailed Hawk

Nephritic
  White-tailed Deer, Wild Turkey

Pulmonary
  White-tailed Deer, Gray Wolf, Coyote, Gray Fox, Striped Skunk, Raccoon,
  Woodchuck, Cottontail Rabbit, Eastern Fox Squirrel, Eastern Gray Squirrel, Big
  Brown Bat, Little Brown Bat, Northern Long-eared Bat, Bald Eagle, Osprey, Red-
  tailed Hawk, Broad-winged Hawk, Cooper's Hawk, Turkey Vulture, Great
  Horned Owl, Snowy Owl, Screech Owl, Trumpeter Swan, Mute Swan, Canada
  Goose, Common Loon, Red-breasted Merganser, Common Merganser, White-
  winged Scoter, Canvasback, Ring-necked Duck, Greater Scaup, Lesser Scaup,
  Common Goldeneye, Ruddy Duck, Long-tailed Duck, Mallard, Gadwall, Hornd
  Grebe, American Coot, Herring Gull, Ring-billed Gull, Great Blue Heron, Wild
  Turkey, Mourning Dove, American Crow, Pileated Woodpecker, Common
  Grackle, Gray Catbird, American Robin, Baltimore Oriole, Red-winged
  Blackbird, Yellow-Rumped Warbler, Snapping Turtle, Map Turtle, Painted
  Turtle, Spiny Softshell Turtle, Eastern Massasauga Rattlesnake

Splenic
  Great Horned Owl, Red-tailed Hawk, Snapping Turtle, White-tailed Deer

CONJUNCTIVITIS
Lympho-plasmacytic (Bacterial-possibly Mycoplasma sp.)
  Moderate to Severe
  American Goldfinch

Unspecified
  Chronic
  Blue Jay
CONSOLIDATION
  Pulmonary
  White-tailed Deer

CONTAMINATION
  Oil (Plumage)
  Canada Goose

CYST
  Ovarian
    Epithelial
      White-tailed Deer
  Renal
    White-tailed Deer

CYSTICERCOSIS
  Hepatic
    *Taenia hydatigena*
    White-tailed Deer

  Pulmonary
    *Echinococcus granulosus*
    White-tailed Deer

DEHYDRATION
  Gray Wolf, White-tailed Deer, Long-tailed Weasel, Cottontail Rabbit, Eastern Fox Squirrel, Eastern Gray Squirrel, Bald Eagle, Osprey, Red-tailed Hawk, Broad-winged Hawk, Cooper's Hawk, Merlin, Turkey Vulture, Great Horned Owl, Barred Owl, Long-eared Owl, Trumpeter Swan, Canvasback, Ring-necked Duck, Herring Gull, Great Blue Heron, Wild Turkey, Common Raven, Blue Jay

DERMATITIS
  Bacterial (Staphylococcus sp.)
    Wild Turkey

  Granulomatous
    Multifocal
      Moderate
        White-tailed Deer

DIFFICULTIES
  Hatching
    Common Loon (Egg)

  Parturition (Retained Fetuses)
    White-tailed Deer
DISCOHESION
- Hepatocyte
  - Severe
    - Diffuse
      - White-tailed Deer

DISTEMPER
- Canine
  - Coyote, Gray Fox, Raccoon

DROWNING
- Bald Eagle, Cooper's Hawk, Greater Scaup

  Possible Drowning
  - Bald Eagle, Red-tailed Hawk, Mute Swan, Common Loon, White-winged Scoter, Red-breasted Merganser, Common Merganser, Canvasback, Redhead, Ring-necked Duck, Greater Scaup, Lesser Scaup, Common Goldeneye, Ruddy Duck, Long-tailed Duck, Mallard, Gadwall, Horned Grebe, American Coot, American Bittern, Eastern Massasauga Rattlesnake

EDEMA
- Pulmonary

  Subcutaneous
  - Hemorrhagic
    - White-tailed Deer

EGG
- Fertile (1 the embryo died after 6 days of incubation)
  - Peregrine Falcon

- Infertile
  - Peregrine Falcon, Common Loon
**ELECTROCUTION**
Electric wires in tree
Common Grackle, Baltimore Oriole, Rose-breasted Grosbeak

Power line
Bald Eagle, Red-shouldered Hawk, Great Horned Owl, Trumpeter Swan,

Transformer
Bald Eagle

**ENCEPHALITIS**
Parasitic
Focal
Eastern Fox Squirrel

Perivascular
Eosinophilic
Focal
Raccoon

Suppurative
White-tailed Deer

Viral
White-tailed Deer

**ENTERITIS**
Bacterial
Hemorrhagic
White-tailed Deer

Lympho-plasmacytic
Mild
Long-tailed Duck

Necrotic
Hemorrhagic
Long-tailed Duck

Parvoviral
Raccoon

Suppurative (Caseous Necrotic)
Chronic
European Starling
ENTERITIS (continued)
  Ulcerative
  Hemorrhagic
  Verminous
  Redhead

Unspecified
  Hemorrhagic
  White-tailed Deer, Great Blue Heron

ENTEROTOXEMIA
  Bacterial
  White-tailed Deer

EPICARDITIS
  Fibrinous
    Chronic
      White-tailed Deer
  Necrotic
    Chronic
      Red-tailed Hawk

EXPOSURE
  White-tailed Deer, Big Brown Bat, House Sparrow

FAILURE
  Renal
    Cottontail Rabbit

FASCIOLOIDIASIS
  White-tailed Deer

FIBROSIS
  Cardiac
    Interstitial
      Multifocal
        Bald Eagle
  Hepatic
    Chronic
      White-tailed Deer
GLOMERULONEPHRITIS
  Membranous
  Severe
  White-tailed Deer, Cottontail Rabbit

  Periportal
  Moderate
  Bald Eagle

GOUT
  Visceral
  Screech Owl

HEMORRHAGES
  Agonal
  White-tailed Deer

HEMOSIDEROSIS
  Hepatic
  Great Horned Owl, European Starling

  Splenic
  Moderate
  Gray Fox

  Unspecified
  Great Horned Owl

HEMOTHORAX
  White-tailed Deer

HEPATITIS
  Bacterial
  Mute Swan

  Bacterial or Viral (Probable)
  Trumpeter Swan

  Mild
  Lesser Scaup
HEPATITIS (continued)
Necrotic
  Caseous
    Chronic
      American Coot

Fibrinous
  Chronic
    Great Blue Heron

Necrotizing
  Acute
    Trumpeter Swan

Multifocal
  Raccoon

Multifocal (Bacterial)
  Lesser Scaup

Periportal
  Moderate
    Bald Eagle

  Moderate (Bacterial)
    Great Horned Owl

HERNIA
  Diaphragmatic
    White-tailed Deer, Eastern Fox Squirrel

HYPERPLASIA
  Melanomacrophage
    Hepatic
      Map Turtle, Painted Turtle, Spiny Softshell Turtle

IMBALANCE
  Electrolyte
    White-tailed Deer

INCUBATION
  Insufficient
    Common Loon (Egg)

INFARCT
  Renal
    White-tailed Deer
INFECTION
Bacterial
Red-tailed Hawk, Canada Goose

Bacterial (Probable Staphylococcus sp.)
Red-tailed Hawk, Wild Turkey, Ruffed Grouse, Mourning Dove, House Finch

Fungal
Canada Goose

INFESTATION
Louse
Chewing
Trichodectes canis
Coyote

Sucking
Unidentified Species
Eastern Fox Squirrel

Unspecified
White-tailed Deer

Tick
Dermacentor variabilis
Gray Wolf

Ixodes scapularis
Gray Wolf

Ixodes sp.
White-tailed Deer

LAMINITIS (the result of recovering from an EHD infection)
White-tailed Deer

LIPIDOSIS
Hepatic
Severe
Opossum

LIVER
Polycystic
White-tailed Deer
LYMPHOPROLIFERATIVE DISEASE
   Wild Turkey

MALACIA
   Red-tailed Hawk

MALNUTRITION
   Elk, White-tailed Deer, Gray Wolf, Red Fox, Gray Fox, Bobcat, Long-tailed Weasel, Racoon, Opossum, Eastern Fox Squirrel, Eastern Gray Squirrel, Big Brown Bat, Bald Eagle, Osprey, Red-tailed Hawk, Broad-winged Hawk, Cooper's Hawk, American Kestrel, Great Horned Owl, Snowy Owl, Long-eared Owl, Screech Owl, Trumpeter Swan, Common Loon, Canada Goose, Red-breasted Merganser, Lesser Scaup, Common Goldeneye, Herring Gull, Ring-billed Gull, Great Blue Heron, Wild Turkey, Mourning Dove, Pileated Woodpecker, Common Raven, American Crow, Blue Jay, American Robin, European Starling, Map Turtle, Painted Turtle, Spiny Softshell Turtle, Eastern Massasauga Rattlesnake

MANGE
   Sarcoptic
      Gray Wolf, Red Fox
   Sarcoptic (Old)
      Gray Wolf, Coyote

MENINGITIS
   Lymphoplasmacytic
      Moderate
         White-tailed Deer
   Suppurative
      White-tailed Deer

MENINGOENCEPHALITIS
   Bacterial
      White-tailed Deer
   Suppurative
      Focal
         White-tailed Deer
   Unspecified
      White-tailed Deer
METRITIS
Suppurative
  Chronic
    White-tailed Deer

Unspecified
  Domestic Dog

MINERALIZATION
Renal Medullary Tubular and Collecting Duct
  Moderate
    Striped Skunk

MYCOPLASMOsis
House Finch

MYIASIS
  Bald Eagle, Red-tailed Hawk, Cooper's Hawk, Great Blue Heron, Common Grackle

MYOCARDITIS
  Granulomatous
    Multifocal
      Mild
        Bald Eagle

  Necrotic
    Chronic
      Yellow-Rumped Warbler

MYOPATHY
  Degenerative
    Bobcat

NECROSIS
  Hepatocyte
    Severe
      Diffuse
        White-tailed Deer

  Hepatic
    Multifocal
      Raccoon

  Nephritic
    Multifocal
      Raccoon
NECROSIS (continued)
  Splenic
    Multifocal
    Raccoon

NEMATODIASIS
  Cardial
    *Dirofilaria immitis*
    Gray Wolf, Coyote
  Cerebrospinal
    *Parelaphostrongylus tenuis*
    Elk, White-tailed Deer
  Unidentified Species
    Raccoon
  Pulmonary
    Unidentified Species
    Mink, Opossum
  Subcutaneous
    *Dracunculus* sp.
    Mink

NEPHRITIS
  Caseogranulomatous (Bacterial)
    Multifocal
    Trumpeter Swan
  Interstitial
    Bacterial
      Multifocal
      Painted Turtle
  Necrotizing
    Multifocal
    White-tailed Deer
  Unspecified
    Chronic
    Cottontail Rabbit
    Moderate
    White-tailed Deer
**PARVOVIRUS**
- Raccoon

**PERICARDITIS**
- Fibrinous
  - Chronic
    - White-tailed Deer, Trumpeter Swan
  - Unspecified
    - White-tailed Deer
- Necrotic
  - Chronic
    - Red-tailed Hawk, Yellow-Rumped Warbler
- Suppurative
  - Chronic
    - White-tailed Deer
- Unspecified
  - Chronic
    - Bald Eagle

**PERIFOLLICULITIS**
- Lympho-plasmacytic
  - Mild
    - White-tailed Deer

**PERITONITIS**
- Fibrinous
  - Chronic
    - White-tailed Deer, Great Blue Heron
- Nephritic
  - Eastern Fox Squirrel
- Suppurative
  - Chronic
    - White-tailed Deer, European Starling
- Verminous (Eustrongylidosis)
  - Great Blue Heron
**PLEURITIS**  
Bacterial  
White-tailed Deer

Fibrinous  
Chronic  
White-tailed Deer, Raccoon

Fibrous  
Chronic  
White-tailed Deer

Hepatic  
Eastern Fox Squirrel

**PLEXITIS**  
Choroid  
Lympho-plasmacytic  
Nodular  
Elk

**PNEUMONIA**  
Aspiration  
White-tailed Deer

Bacterial  
Gray Wolf, Big Brown Bat, Little Brown Bat

Fibrinous  
Chronic  
White-tailed Deer

Interstitial  
Lympho-plasmacytic  
Mild  
Gray Fox, Woodchuck

Mild  
Striped Skunk, Raccoon

Moderate  
Raccoon

Nonsuppurative  
Moderate  
Striped Skunk
PNEUMONIA (continued)
Interstitial (continued)
Unspecified
   Raccoon, Eastern Fox Squirrel

Mild
   Big Brown Bat

Pyogranulomatous
   Locally Extensive
      Severe
         White-tailed Deer

Suppurative
   Chronic
      White-tailed Deer

Unspecified
   White-tailed Deer, Eastern Gray Squirrel, Big Brown Bat, Common Loon, Great Blue Heron

POISONING
Copper
   Mute Swan

Endosulfan
   Red-winged Blackbird

Lead
   Acute
      Bald Eagle
   Chronic
      Bald Eagle, Common Loon, Long-tailed Duck

Mercury (Possible)
   Chronic
      Bald Eagle

Organochlorine
   American Robin

Selenium
   Red-breasted Merganser, White-winged Scoter, Greater Scaup, Bufflehead, Long-tailed Duck, Horned Grebe
POLIOENCEPHALOMALACIA
   White-tailed Deer

POX
   Avian
      Cutaneous
         Wild Turkey
   Diptheritic
      Wild Turkey
   Unspecified
      Canada Goose, Wild Turkey, Ruffed Grouse, Mourning Dove, American Crow, House Finch

Squirrel
   Eastern Fox Squirrel, Eastern Gray Squirrel

PROVENTRICULITIS
   Necrotic (Caseous)
      Chronic
         Common Loon

RABIES
   Hoary Bat, Big Brown Bat

SALMONELLOSIS
   Ring-billed Gull

SARCOCYSTIS
   Severe
      American Goldfinch

Unspecified
   Bald Eagle

SEPSIS
   Bacterial
      Bald Eagle

SEPTICEMIA
   Bacterial
      White-tailed Deer, Raccoon, Great Blue Heron, Ring-billed Gull, Snapping Turtle
STARVATION
Elk, White-tailed Deer, Gray Wolf, Raccoon, Cottontail Rabbit, Eastern Gray Squirrel, Northern Long-eared Bat, Bald Eagle, Red-tailed Hawk, Merlin, Great Horned Owl, Snowy Owl, Barred Owl, Turkey Vulture, Trumpeter Swan, Tundra Swan, Mute Swan, Red-breasted Merganser, White-winged Scoter, Canvasback, Redhead, Ring-necked Duck, Greater Scaup, Lesser Scaup, Common Goldeneye, Bufflehead, Ruddy Duck, Long-tailed Duck, Gadwall, Horned Grebe, American Coot, Great Blue Heron, American Bittern

STEATITIS
Retrobulbar
Fibrino-suppurative (Bacterial)
White-tailed Deer

STRESS
Big Brown Bat, Little Brown Bat, Northern Long-eared Bat, Bald Eagle, Ruffed Grouse, Mourning Dove, Common Grackle, Gray Catbird, American Robin

SUCC OcATION
Wild Turkey, Red-winged Blackbird

TAMPONADE
Cardiac
White-tailed Deer

TOXICITY
Corn
White-tailed Deer

TRAUMA
Elk, White-tailed Deer, Fallow Deer, Black Bear, Gray Wolf, Coyote, Red Fox, Gray Fox, Domestic Dog, Cougar, Bobcat, River Otter, Fisher, Mink, Muskrat, Badger, Striped Skunk, Raccoon, Virginia Opossum, Cottontail Rabbit, Eastern Fox Squirrel, Eastern Gray Squirrel, Big Brown Bat, Bald Eagle, Peregrine Falcon, Red-tailed Hawk, Broad-winged Hawk, Rough-legged Hawk, Northern Goshawk, Cooper's Hawk, Sharp-shinned Hawk, Great Horned Owl, Snowy Owl, Barred Owl, Screech Owl, Northern Saw-whet Owl, Turkey Vulture, Trumpeter Swan, Mute Swan, Common Loon, Red-breasted Merganser, Common Merganser, White-winged Scoter, Great Scaup, Lesser Scaup, Common Goldeneye, Ruddy Duck, Long-tailed Duck, Mallard, Horned Grebe, American Coot, Ring-billed Gull, Great Blue Heron, Green Heron, Sandhill Crane, Wild Turkey, Ruffed Grouse, Rock Dove, Common Raven, American Crow, Pileated Woodpecker, Northern Flicker, Hairy Woodpecker, Belted Kingfisher, American Robin, European Starling, Red-winged Blackbird, House Finch, Eastern Towhee, Yellow-Rumped Warbler, Veery, Eastern Massasauga Rattlesnake
TUBERCULOSIS
   Bovine
   White-tailed Deer

TUMOR
   Fibroma
   White-tailed Deer

   Lipoma
   White-tailed Deer

   Lymphoma
   Hepatic
   Wild Turkey

Oral Papilloma
   Gray Wolf

PROLAPSED UTERUS
   White-tailed Deer

WEST NILE VIRUS
   Osprey, Cooper's Hawk, Great Horned Owl, Long-eared Owl, Wild Turkey, Mourning Dove, Common Raven, American Crow

WHITE-NOSE SYNDROME
   Big Brown Bat, Little Brown Bat, Northern Long-eared Bat

WINTER KILL
   Eastern Massasauga Rattlesnake