

eol species cards



Okaloosa County, FL eMammal Species

Nine-banded Armadillo *Dasyurus novemcinctus*

eol
Mammals



Okaloosa County, Florida
+ Coastal Uplands

OMNI
Foodweb Role

Body Length	75 cm (avg)
Adult Weight	3.6-7.7 kg
Lifespan	7-20 yrs
Offspring/Litters	4; 1/yr
Female Maturity	1-2 yrs

IUCN
Redlist™

Adaptations + Energy Sources

Physical: Covered in hard dermal plates for protection
Behavioral: Jump to surprise and startle predators
Energy: Ants, small reptiles, amphibians, birds and fruit

Image: eMammal - PI Maranda Walton CC-BY-NC-SA

eol species cards

This deck highlights 23 species that have been captured on camera traps as part of the eMammal camera trapping citizen science project. eMammal worked with volunteers, teachers, and students in Okaloosa to collect important data about the distribution and behaviors of mammals and other large animals. Look carefully to see if you recognize any images from traps in Okaloosa County!

This card deck has been developed as part of the Okaloosa SCIENCE project, a collaborative STEM education grant for the Okaloosa County School District in Florida. The goals of this project include enhancing scientific literacy, connecting to place, and building community by engaging in hands-on activities.

Find this card deck and more at:
education.eol.org/species_cards



This resource was developed as part of the Okaloosa SCIENCE grant, supported by the Department of Defense Education Activity (DoDEA) under Award No. H#1254-14-1-0004.

Title Image Credit: eMammal - Bill McShea (PI) CC-BY-NC-SA

Project Description

American Beaver *Castor canadensis*

eol
Mammals



Okaloosa County, Florida
+ Freshwater Forested Wetlands

HERB
Foodweb Role

Body Length	60-100 cm
Adult Weight	16-30 kg
Lifespan	10-20 yrs (avg)
Offspring/Litters	1-4; 1/yr
Female Maturity	3 yrs (avg)

IUCN
Redlist™

Adaptations + Energy Sources

Physical: Sharp teeth cut down trees for food and dam
Behavioral: Build dams and lodges for shelter
Energy: Aquatic plants and soft tissues of trees

Image: eMammal - PI Roland Kays CC-BY-NC-SA

Common Name

Scientific Name

Taxon Group

Food Web Roles

DECO	Decomposer: Energy from dead material
AUTO	Autotroph: Energy from sun, water, CO ₂
HERB	Herbivore: Energy from plants
OMNI	Omnivore: Energy from plants, animals
CARN	Carnivore: Energy from animals
APEX	Apex Predator: Top predator
DETR	Detritivore: Energy from dead vegetation
SANG	Sanguinivore: Energy from blood
MULT	Multiple: Energy from multiple sources

Habitat (where species is found)
+ (indicates species is also found in other habitats)

Species Conservation Status

IUCN Redlist™

International Union for
Conservation of Nature

NE	Not Evaluated
LC	Least Concern
DD	Data Deficient
NT	Near Threatened
EN	Endangered

NE	Not Evaluated
VU	Vulnerable
CR	Critically Endangered
EW	Extinct in Wild
EX	Extinct

Bobcat *Lynx rufus*

eol
Mammals



Okaloosa County, Florida
+ Hardwood Forested Uplands

CARN
Foodweb Role

Body Length	65-105 cm
Adult Weight	4-15 kg
Lifespan	10-12 yrs (avg)
Offspring	1-6; 1/yr
Female Maturity	12 months

IUCN
Redlist™

Adaptations + Energy Sources

Physical: Excellent eyesight and hearing for hunting prey
Behavioral: Mark territory with urine, feces and scratches
Energy: Small mammals, birds and reptiles

Image: eMammal - PI Robert Long CC-BY-NC-SA



Domestic Cat

Felis catus

eol
Mammals



+ Okaloosa County, Florida
Urban Habitats

OMNI

Foodweb
Role

Body Length	46 cm (avg)
Adult Weight	4.1-5.4 kg
Lifespan	14 yrs (avg)
Offspring/Litters	4-6 (avg); variable
Female Maturity	6 months

NE

IUCN
Redlist™

Adaptations + Energy Sources

Physical: Specialized teeth, retractable claws for hunting
Behavioral: Arch back and hiss to frighten predators
Energy: Cat food, some self-hunted rodents and birds

Image: eMammal - PI Roland Kays CC-BY-NC-SA

Coyote

Canis latrans

eol
Mammals



+ Okaloosa County, Florida
Habitat Generalist

CARN

Foodweb
Role

Body Length	81-94 cm
Adult Weight	7-21 kg
Lifespan	6-9 yrs (avg)
Offspring/Litters	6 (avg); 1/yr
Female Maturity	9-10 months

LC

IUCN
Redlist™

Adaptations + Energy Sources

Physical: Keen sense of smell for locating prey
Behavioral: Change hunting styles seasonally
Energy: Mammals, birds, snakes, invertebrates, carrion

Image: eMammal - PI Bill McShea CC-BY-NC-SA

White-tailed Deer

Odocoileus virginianus

eol
Mammals



+ Okaloosa County, Florida
Habitat Generalist

HERB

Foodweb
Role

Body Length	150-200 cm
Adult Weight	57-137 kg
Lifespan	2-3 yrs (max)
Offspring/Litters	1-3; 1/yr
Female Maturity	1-2 yrs

LC

IUCN
Redlist™

Adaptations + Energy Sources

Physical: Eyes on side of head to widen field of vision
Behavioral: Males fight for mates during the rut season
Energy: Leaves, stems, flowers, grass, acorns, berries

Image: eMammal - PI Bill McShea CC-BY-NC-SA

Dog

Canis lupus familiaris

eol
Mammals



+ Okaloosa County, Florida
Urban Habitats

OMNI

Foodweb
Role

Body Length	Variable
Adult Weight	Variable
Lifespan	10-13 yrs (avg)
Offspring/Litters	3-9 (avg); 1-2/yr
Female Maturity	6-12 months

NE

IUCN
Redlist™

Adaptations + Energy Sources

Physical: Bred with different skills and advantages
Behavioral: Defend and mark territory using urine/scents
Energy: Dog food, will eat other plants, meats, etc.

Image: eMammal - PI Roland Kays CC-BY-NC-SA

Eastern Cottontail

Sylvilagus floridanus

eol
Mammals



+ Okaloosa County, Florida
Habitat Generalist

HERB

Foodweb
Role

Body Length	43 cm (avg)
Adult Weight	800-1530 g
Lifespan	3 yrs
Offspring/Litters	5 (avg); 1-7/yr
Female Maturity	2-3 months

LC

IUCN
Redlist™

Adaptations + Energy Sources

Physical: Strong back legs for standing and hopping
Behavior: Leap side to side to break scent trail
Energy: Bark, grasses, fruit and vegetables

Image: eMammal - PI Roland Kays CC-BY-NC-SA

Florida Black Bear

Ursus americanus floridanus

eol
Mammals



+ Okaloosa County, Florida
Pines/Sandhill

OMNI

Foodweb
Role

Body Length	1.5-1.8 m
Adult Weight	60-160 kg
Lifespan	10 yrs (avg)
Offspring/Litters	1-4; 1/yr
Female Maturity	3-4 yrs

NE

IUCN
Redlist™

Adaptations + Energy Flow

Physical: Strong legs and paws for climbing trees
Behavioral: Many bears rub against or claw tree bark
Energy: Nuts, fruit, seeds, fish, small mammals, insects

Image: eMammal - PI Bill McShea CC-BY-NC-SA



Eastern Fox Squirrel *Sciurus niger*

eol
Mammals



+ Okaloosa County, Florida
Habitat Generalist

OMNI

Foodweb
Role

Body Length	19-43 cm
Adult Weight	800 g (avg)
Lifespan	4-7 yrs (avg)
Offspring/Litters	2-3 (avg); 1-2/yr
Female Maturity	8 months

LC

IUCN
Redlist™

Adaptations + Energy Sources

Physical: Sharp claws, muscular bodies for climbing
Behavioral: Cache acorns and other nuts for winter
Energy: Acorns, nuts, insects, birds, eggs, carrion

Image: eMammal - PI Maranda Walton CC-BY-NC-SA

Gray Fox *Urocyon cinereoargenteus*

eol
Mammals



+ Okaloosa County, Florida
Hardwood Forested Uplands

OMNI

Foodweb
Role

Body Length	53-81 cm
Adult Weight	3-5 kg (avg)
Lifespan	6-8 yrs (avg)
Offspring/Litters	4 (avg); 1/yr
Female Maturity	10 months

LC

IUCN
Redlist™

Adaptations + Energy Sources

Physical: Retractable claws for climbing trees
Behavioral: Socialize with mate and offspring seasonally
Energy: Berries, nuts, insects, birds, rodents

Image: eMammal - PI Bill McShea CC-BY-NC-SA

Eastern Gray Squirrel *Sciurus carolinensis*

eol
Mammals



+ Okaloosa County, Florida
Habitat Generalist

OMNI

Foodweb
Role

Body Length	23-30 cm
Adult Weight	338-750 g
Lifespan	6 yrs (avg)
Offspring / Litters	2-4 (avg); 2/yr
Female Maturity	15 months

LC

IUCN
Redlist™

Adaptations + Energy Sources

Physical: Extreme agility makes them difficult to capture
Behavioral: Bury food in caches for winter
Energy: Nuts, flowers, fungi, insects, nestlings, frogs

Image: eMammal - PI Bill McShea CC-BY-NC-SA

Marsh Rabbit *Sylvilagus palustris*

eol
Mammals



+ Okaloosa County, Florida
Freshwater Forested Wetlands

HERB

Foodweb
Role

Body Length	43 cm (avg)
Adult Weight	1.2-2.2 kg
Lifespan	4 yrs (max)
Offspring/Litters	2-5; 3-4/yr
Female Maturity	7 months

LC

IUCN
Redlist™

Adaptations + Energy Sources

Physical: Strong legs, small feet for swimming and diving
Behavioral: Individuals cluster around dense resources
Energy: Leaves, roots, bark, flowers

Image: eMammal - PI Bill McShea CC-BY-NC-SA

American Mink *Neovison vison*

eol
Mammals



+ Okaloosa County, Florida
Freshwater Forested Wetlands

CARN

Foodweb
Role

Body Length	30-43 cm
Adult Weight	700-1600 g
Lifespan	10 yrs (max)
Offspring/Litters	1-8; 1/yr
Female Maturity	10 months

LC

IUCN
Redlist™

Adaptations + Energy Sources

Physical: Scent glands to spray predators with musk
Behavioral: Can dive 5 meters deep hunting in water
Energy: Rats, rabbits, birds, fish, frogs and crayfish

Image: cyric CC-BY-NC-SA

Common Muskrat *Ondatra zibethicus*

eol
Mammals



+ Okaloosa County, Florida
Freshwater Forested Wetlands

HERB

Foodweb
Role

Body Length	32 cm
Adult Weight	680-1800 g
Lifespan	3 yrs (avg)
Offspring / Litters	6-7 (avg); 1-4/yr
Female Maturity	9-10 months

LC

IUCN
Redlist™

Adaptations + Energy Sources

Physical: Partially-webbed feet for land and water
Behavioral: Steer swimming direction using tail
Energy: Aquatic plants and shellfish

Image: eMammal - PI Roland Kays CC-BY-NC-SA



Virginia Opossum

Didelphis virginiana

eol
Mammals



OMNI
Okaloosa County, Florida
Habitat Generalist
Foodweb Role

Body Length	74 cm (avg)
Adult Weight	3.7-6.4 kg
Lifespan	3 yrs (max)
Offspring/Litters	7-9 (avg); 1-3 yr
Female Maturity	9 months (avg)

IUCN Redlist™ LC

Adaptations + Energy Sources
Physical: Opposable big toes on hind feet
Behavioral: "Play dead" to make predators lose interest
Energy: Carrion, insects, fruit, seeds, snails, mice

Image: eMammal - PI Roland Kays CC-BY-NC-SA

Northern Raccoon

Procyon lotor

eol
Mammals



OMNI
Okaloosa County, Florida
Habitat Generalist
Foodweb Role

Body Length	60-95 cm
Adult Weight	6.0 kg (avg)
Lifespan	5 yrs (avg)
Offspring/Litters	4 (avg); 1/yr
Female Maturity	8-12 months

IUCN Redlist™ LC

Adaptations + Energy Sources
Physical: Dexterous, highly sensitive front paws
Behavioral: Often "douse" aquatic food underwater
Energy: Variety of invertebrate and vertebrates, fruits

Image: eMammal - PI Roland Kays CC-BY-NC-SA

Red Fox

Vulpes vulpes

eol
Mammals



OMNI
Okaloosa County, Florida
Coastal Uplands
Foodweb Role

Body Length	46-90 cm
Adult Weight	3-14 kg
Lifespan	3 yrs (avg)
Offspring/Litters	5 (avg); 1/yr
Female Maturity	10 months

IUCN Redlist™ LC

Adaptations + Energy Sources
Physical: Use tail as warm cover in cold weather
Behavioral: Often cache food for later, mark with urine
Energy: Rodents, rabbits, insects, fruits

Image: eMammal - PI Bill McShea CC BY-NC-SA

Northern River Otter

Lontra canadensis

eol
Mammals



CARN
Okaloosa County, Florida
Freshwater Forested Wetlands
Foodweb Role

Body Length	55-80 cm
Adult Weight	5-14 kg
Lifespan	8-9 yrs (avg)
Offspring/Litters	2-3 (avg); 1/yr
Female Maturity	2-3 yrs

IUCN Redlist™ LC

Adaptations + Energy Sources
Physical: Fur on bottoms of feet for warmth and traction
Behavioral: Slow down heart rate to conserve oxygen
Energy: Fish, insects, birds, frogs, rodents, turtles

Image: eMammal - PI Bill McShea & Roland Kays CC-BY-NC-SA

Eastern Spotted Skunk

Spilogale putorius

eol
Mammals



OMNI
Okaloosa County, Florida
Pines/Sandhill
Foodweb Role

Body Length	12-35 cm
Adult Weight	200-1000 g
Lifespan	3 yrs (avg)
Offspring/Litters	5-6; 1/yr
Female Maturity	11 months

IUCN Redlist™ LC

Adaptations + Energy Sources
Physical: Anal glands emit a musk for self-defense
Behavioral: Fast 'handstand' movements warn predators
Energy: Rabbits, rodents, insects, birds, eggs and fruit

Image: eMammal - PI Bill McShea CC-BY-NC-SA

Striped Skunk

Mephitis mephitis

eol
Mammals



OMNI
Okaloosa County, Florida
Hardwood Forested Uplands
Foodweb Role

Body Length	20-48 cm
Adult Weight	0.7-6.3 kg
Lifespan	6 yrs (avg)
Offspring/Litters	4-7; 1/yr
Female Maturity	10 months

IUCN Redlist™ LC

Adaptations + Energy Sources
Physical: Anal glands emit a musk for self-defense
Behavioral: Nest in hollow logs or animals' old burrows
Energy: Insects, small mammals, eggs, fish, carrion, fruit

Image: eMammal - PI Bill McShea CC-BY-NC-SA



Wild Boar

Sus scrofa

eol
Mammals



OMNI

 Okaloosa County, Florida
+ Freshwater Forested Wetlands 

Body Length	153-240 cm
Adult Weight	66-272 kg
Lifespan	1-2 yrs (avg)
Offspring/Litters	5-6 (avg); 1-2/yr
Female Maturity	10 months

IUCN Redlist™ LC

Adaptations + Energy Sources
Physical: Incredible sense of smell from long snout
Behavioral: Nocturnal, come out at night to forage
Energy: Small animals, eggs, roots, fruit, shrubs, carrion

Image: eMammal - PI Bill McShea CC-BY-NC-SA

Wild Turkey

Meleagris gallopavo

eol
Birds



OMNI

 Okaloosa County, Florida
+ Hardwood Forested Uplands 

Wingspan	125-144 cm
Adult Weight	2.5-10.8 kg
Lifespan	3-4 yrs (avg)
Clutch/Broods	10-14; 1/yr
Nest Type	Open cup on ground

IUCN Redlist™ NE

Adaptations + Energy Sources
Physical: Brilliant, bold male plumage attract females
Behavioral: Travel and forage in flocks
Energy: Seeds, berries, insects, snails, salamanders

Image: eMammal - PI Roland Kays CC-BY-NC-SA

eol species cards

Adaptation: A physical characteristic or behavior that helps an organism survive in its environment

Body Length: The length of a mammal from the nose to the base of tail

Brood/Litter: Group of young produced at one time

Clutch Size: Number of eggs laid in a nest at one time

Female Maturity: The age at which a female can reproduce

Habitat: The area an organism lives and can find its resources

Nocturnal: Active at night

Offspring: Number of young in one litter

Vocabulary

