This publication offers solutions—not just more suggestions. Ultimately, you will determine the level of success that is realized.

Union Soil & Water Conservation District

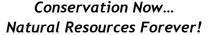
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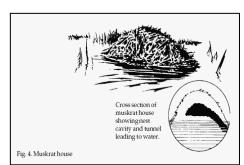
brent.nickel@oh.nacdnet.net

http://www.co.union.oh.us/GD/Templates/ Pages/UC/UCDetail.aspx?page=559















Muskrat Den Entrance at Embankment's Waterline



Muskrat Lodge made of cattails—in cattails. (circled)

Muskrat tracks

Incomplete List of Local Trappers

If number is not a working one, please contact me immediately!

Name	Telephone	Area
Robert Blue	(937) 355-0355	Marysville
Cory Rausch	(614) 558- 3908	Union County
Rick Bright	(937) 243-4644	Marysville
& Steve Bump	& (937) 642-4560	Area
Pete Browning	(937) 644-3034	Union County
Greg Buck	(937) 644-9607	Marysville
Eric Canter	(614) 873-5135	Marysville & Pln City
David Coffman	(937) 642-0691	Marysville
Richard Griggs	(937) 642-0374	Marysville
Dick Westfall	(937) 642-9142	Union County
Mill Creek Wildlife Control	(614) 348-8970	Union County
Don Rockenbaugh	(614) 774-4159	Marysville
	(937) 642-0222	
Tom Ross	(740) 943-2129	Richwood
Dana Roush, Roush	(937) 642-8847	Marysville
Wildlife Nuisance	Cell 937-594-2221 or	
Control	Cell 937-597-8845	

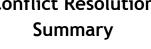
Conflict Resolution

Human-Wildlife conflict is as old as The Age. Only the generations change.

Below, one will find an incomplete list of local trappers that may be able to

It is always best to arrange for trappers to trap muskrats during the regu-

Should one want to trap muskrats on Book titled: 4-H 622-Trapping Muskrats in Ohio...available at county OSU Extension Offices for a small fee. It is a good way to learn the trapping basics.



To resolve muskrat conflicts one must be persistent.

assist.

lated furbearer season.

their own, there is a great 4-H Project

ages a shallow water conservation wetland, a storm water retention pond, or a deeper water "people" pond, Muskrats will eventually discover it and exploit its habitat potential."

Muskrat Management Contents

Gracefully

Surrender

Muskrats	2
in Ohio Wildlife Officer	2
Contact Info Life History	3
Notes	•

Muskrat Summary

Local Trappers Contact Info

This publication offers solutions—not just more suggestions. Ultimately, you will determine the level of success that is realized.

Union Soil & Water Conservation District

Muskrat Conflict Management ...forget Control!

Forget about muskrat "control".

One can remove a fence post and it

will stay removed. Remove a musk-

rat from a body of water and in

uncommon hours, another one will

Throughout the year - all year long,

wildlife conflict in Ohio's ponds is

the native muskrat - Ondatra

zibethicus. Dismiss the havoc of

deer browsing and the defecations

of Canada geese; it is the mighty

burrowing muskrat that drives pond

Many pond owners report going for

years or decades without experi-

encing muskrats, but under the

cover of darkness, one - then two,

show up. Unless one is present at

dawn or dusk to witness the wake's

"V" formation from the swimming

muskrat, they often go unnoticed.

It is the inexplicable cattail cut-

tings that wash ashore from the

previous night's feeding, or the

lawnmower's wheel that drops into

a subsided burrow that causes

Though often confused with the

much larger beaver, muskrats are

actually related to mice and rats.

A rodent, it is easy to envision a

wet muskrat as being a large rat -

However, when dry, they have a

beautifully brown soft coat com-

prised of a thick undercoat

(warmth) and an outer coat of long,

Why so many muskrats and why

owing to its nearly hairless tail.

alarm. "What's this", they ask.

owners and pond managers crazy.

the number one species of human-

replace it.

Latest Update: **JANUARY 15, 2014**

The Reality of Truth:

"If one owns or man-

2
2
3
3

now? Like never before, new "people ponds", as well as storm water management ponds, are erupting upon the Ohio landscape. This, combined with the muskrat's

shining and waterproof hairs.

high biotic potential, spells human conflict. Muskrats breed from February to August. The birthing

activity takes places from March to September, with the peak period being May. In as little as 26 days, a litter of 1 to 11 arrives. Like many rodent family species, population cycles ebb and flow.

There may be 2 to 3 litters - or

Gracefully Surrender to Muskrat Management

more, each breeding season. One can now begin to see why muskrats can suddenly explode in numbers around a quiet pondscape. In 10 to 12 months, newborns will be of breeding age. It doesn't take a math major to see what is coming. Even factoring in a high mortality rate, a breeding pair of muskrats can exponentially increase in just one summer. Above water lodges are seen seasonally in wetlands, but in deeper water ponds muskrats burrow into embankments. If there is any light at the end of the tunnel - or den, it is that muskrat lives are

No matter how one manages their pond, there is always something for the muskrat to feed upon. Their diet consists of plant stems, roots, rhizomes, and foliage of aquatic plants, cattails, water lilies, pondweed, and sedge - as well as clams, snails, mussels, insects, crayfish, small fish, frogs, and even neighboring gardens and crops.

ing the damage and the presence of muskrats? Right now is a great time to begin planning-for, or actively recruiting, trappers to harvest muskrats during the regulated statewide furbearer season dates in November to February. This is an important time to reduce their numbers. If active damage is occurring outside of the regulated

So what is the solution to reduc-



Muskrat in preferred habita

season, on a case by case and county by county basis, state wildlife officers can issue a permit to legally trap muskrats.

There are non-lethal tactics to discourage muskrats from burrowing into pond embankments.

- Rock rip-rap placed along the shoreline may be effective if it is extended well below the anticipated low water line. No guarantees-muskrats dig.
- Some pond owners have chosen to lay flattened chain link fence along shorelines extending well below the projected low water line. Vegetation is then left to grow up into the flattened chain link fence.

PLEASE NOTE: I HAVE OBSERVED WHERE MUSKRATS DIG UNDER THE FENCE AND THUS COMPOUND THE PROBLEMS.

The most effective solution is a comprehensive trapping program during the annual regulated season. One thing is for certain; doing nothing will result in a dangerous place to walk, fish, and mow as former underground burrows collapse.

For many pond owners and pond managers, muskrat management has become a perpetual mainte-

Never-ever assume that once muskrats are perceived to be eliminated from the site, that they are gone forever!



Fig. 3. Range of the muskrat in North America

"To hold a species down or to build it up requires the same research. Both operations require the same detailed knowledge of life history and relation to the environment. Research in short, is an indispensable insurance against losses arising from too much wildlife, or too little." - Aldo Leopold, 1937

MUSKRAT (Ondatra zibethicus)...Ohio's Muskrat Territory

If you have ever walked by a pond or stream and noticed small mounds of marsh plants sticking up out of the water, then you have probably been in muskrat territory!

Muskrats are large freshwater rodents that look very much like a beaver, but are actually related to mice and rats. This is where they get the second part of their name, because their tail looks like that of a rat. The first part of their name comes from the strong-smelling odor, or musk, that the muskrat produces during mating season and to mark its terri-

Muskrats have had many names given to them over the years: marsh rabbit, mud cat, mud beaver, and the Algonquin Indian tribe called it musquash.

Muskrats have two coats of hair. The thick fur undercoat keeps the muskrats warm in winter, and the outer coat is made up of long, shiny waterproof hairs. The muskrat's fur is a dark brown that gets lighter around its throat. The tail is long, flattened, and

nearly hairless, making it a perfect rudder for swimming.

Swimming is what muskrats do best. They can swim up to speeds of two to three miles per hour. It would take an Olympic swimmer to catch up with them! Muskrats spend much of their time sleeping during the day and slip into the water in the evening. They dive underwater for food, or in search of vegetation for their lodges. Like beavers, muskrats also build lodges. However, their lodges consist of more aquatic vegetation than sticks. Sometimes they even make their own feeding stations to protect themselves from predators while they are eating. These private dining rooms are made from weeds and plants and are built on top of floating rafts of reeds. The muskrat lodges usually have one nesting chamber and several underwater entrances for quick escape routes.

Females normally produce 1 to 5 litters per year, with each litter containing four to seven young. That's up to 35 young a year!

The females will often breed while still nursing. Young are born three to four weeks after breeding and are born hairless. Only two weeks after birth the young muskrats have fur and are able to swim.

They are able to take care of themselves within a month and are on their own

Muskrats are part of a group that is known as furbearers. Muskrats are the most important and most numerous of the furbearers in Ohio. Their rich, dark brown fur is very popular for coats. The yearly average of furbearers trapped in Ohio is around 600,000 and muskrats make up half of this number.

Muskrats are very common in Ohio. Next time you visit a pond or stream watch carefully for signs of muskrats. Sure signs that muskrats are in the area are small feeding stations, cuttings of plants floating in the water, or a lodge near the shore.

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More Insights into a Muskrat's Life History

If there is adequate food, water, shelter, and space—in a suitable arrangement...throughout the seasons, there will be muskrats.

 Mating Monogamous

Breeding Period February—August (Peak Activity: April)

22-30 Days Gestation

Birth Period March—September (Peak Activity: May)

Litter Size 1-11 (Average 6)

• Litters Per Year 2—3 (Usually 2, but up to 5)

3/4 Ounce (21 Grams) Birth Weight

Eyes of Young Open 15 Days

Young Weaned 4 Weeks

Breeding Age 10-12 Months

Adult Weight 2-5 Lbs. (Average 3 Lbs.)

Adult Body Length 12"

Tail Length 10"

16-24" Total length

Life Expectancy Less than 2 Years

Movement Range Radius ~ 100–200 Yards from Lodge or Den

Feeding Period Mostly at night, but also during the day in secure habi tats where there is no consequence to their presence.

Typical Foods Primarily aquatic plants and roots; less often small fish, amphibians, and aquatic macro invertebrates

MUSKRAT PREDATORS Mink, Hawks, Owls, Dogs, Fox, Coyotes, and





ators cannot be relied upon to keep Muskrat populations in-check.

"In summary, randomly releasing live-trapped wildlife off-site can be very inhumane and illegal in the case of raccoons, skunks, opossums, coyotes, and fox-Ohio Revised Code ORC 1501:31-15-03."

Muskrat Burrow Repairs It is best to always repair the

mmediate cave-in area! However, there is probably ecological merit in leaving the deeper burrows alone as they serve as seasonal habitat for mink, snakes, turtles, frogs, salamanders, and more. One may want to consider creating a dedicated area of piled soil to serve as a stockpile for

Muskrat

throughout

The Realities of Relocating Live-Trapped Wildlife

Look, no one has to live with nuisance wildlife, or with wildlife causing property damage. Should non-lethal tactics prove unsuccessful, any targeted wildlife that is successfully livetrapped should be quickly done away with on-site-not relocated. Or re-

Wildlife lives in, or disperses to, areas

of suitable habitat. Releasing livetrapped wildlife "someplace down the road" is not in the best interest of the trapped species, or the existing population where it is being released.

Once released, the already distressed and disoriented animal must make life & death decisions immediately:

- Where are the food, water, shelter, and space sources?
- Are the above in a suitable arrangement throughout the seasons?
- What and where are the prey and predators?

Muskrat Trapping Outside of the Annual Regulated Season

"The most effective solution is a comprehensive trapping program during the annual regulated season."

On a case by case and county by county basis, if one is experiencing active muskrat damage, the county's state wildlife officer may issue a permit to trap this regulated furbearer outside of the annual regulated season (November-February dates).



In Union County—District 1: Josh Shields State Wildlife Officer-Union County ODNR Division of Wildlife-District 1 1500 Dublin Road Columbus, Ohio 43215 (614) 644-3929 Extension 1213 E-Mail Address: joshua.shields@dnr.state.oh.us

Page 2 Muskrat Conflict Management



Page 3