Frogs and friends crossing road safely

By GAEN MURPHREE

MONKTON — Two tunnels built under Monkton Road in Monkton last fall to give frogs, salamanders and other small creatures safe passage across the increasingly busy are living up to expectations, according to early reports from amphibian experts.

"I am thrilled to report that based on our preliminary data gathered during the first significant amphibian movement of this year, the underpasses are working beautifully," said Vermont amphibian expert Jim Andrews of Salisbury. "A steady stream of amphibians through passed both underpasses last Thursday night and were captured on camera.

Andrews reported that between 9 p.m. and 7 a.m. one night in March 172 frogs (mostly wood frogs) and 152 mole salamanders (mostly blue-spotted and their hybrids) safely crossed through the two tunnels, which were build after a 10year effort with \$346,957 raised by volunteers.

The tunnels link the amphibians' habitat on the west-facing slopes of Hogback Mountain with their spring breeding grounds in the Huizenga Swamp. The efforts to raise the funds and build the tunnels have been led by Andrews, Monkton residents Steve Parren and Chris Slesar, and a consortium of neighbors and community groups including the Monkton Conservation Commission and the Lewis Creek Association.

Groundbreaking on the tunnels began in last August and was concluded and inspected by November. **REPORT FROM THE FIELD**

naddisonindepenoe Look for a Vermont Fish and Wildlife video about the Monkton crossing online at

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tion of the wildlife tunnels — had been estimated at 50 percent, which over time, said Andrews could lead to these species'

The night I assisted Parren and a small handful of volunteers in counting peepers, wood frogs, yellow-spotted salamanders, bluespotted salamanders, and newts - dead and alive — and helping live amphibians cross the road, the tally for our two and a half hours of work came to 267 amphibians in the control and buffer areas. This number suggests that some portion of that total have also made it safely through the tunnels and into the

For Parren, who is also manager of the Wildlife Diversity Program (which covers all non-game species) at the Vermont Fish and Wildlife Department, monitoring and saving amphibians on Monkton Road has been a 20-year labor of love.

Parren said he was first alerted

THIS IS ONE of two tunnels that allows amphibians to pass under Monkton Road unharmed during the spring and fall migration seasons. Before the tunnels were built, thousands of amphibian risked death each night crossing from the forest to the swamp. Photo courtesy of Vermont Fish & Wildlife Department

Standing in the dark, in the cold mist, flashlight in hand on the Monkton-Vergennes Road, the contrast is striking.

Where the newly installed wildlife tunnels funnel amphibians safely under the road into the swamp, the road is almost entirely clear. Elsewhere on this road that rou-

tinely carries up to 1,800 cars per day it's a scene of carnage, like something out of a Civil War movie when the camera pans the battlefield in the tragic aftermath. Squished frogs and salamanders line the road. Many are so smashed they are almost unrecognizable.

Mortality - before the installa-

disappearance in this area.

breeding pools.

to the importance of the Huizenga

Swamp crossing by Andrews, con-

sidered by many the state's top am-

phibian expert. Since 1997, Parren

has been coming to the Monkton

Road crossing, tallying animals

dead and alive, and carrying live

hear the animals moving through

the forest. I could hear the wood

frogs jumping down from the high-

er spots. I've been out there when

it's been raining so hard that there's

actually standing water on the road

and the salamanders literally swim

across the road. It's incredible.

You're kind of awestruck," said

Parren. "Then when you do the

math and after two nights I calcu-

lated that over 1,000 animals had

been left on the road that was kind

Parren said he's brought in a small

crew of volunteers over the years to

help. And then about 10 years ago

he and neighbor and fellow state

employee Chris Slesar, who is an

environmental specialist for VTrans

of sobering."

"I've been out there when I could

amphibians across the road.



A BLUE-SPOTTED SALAMANDER stops for for a nature paprazzo before continuing through one of the two new amphibian tunnels under Monkton Road from its winter home in a forest to its summer residence in a swamp.

and an expert on how transportation

can be better adapted to wildlife,

began cooking up the idea for the

Ever the scientist, Parren is

pleased with how well the tunnels

are working, but wants to track the

data fully over this year's migra-

tion before quantifying the tunnel's

success. He is also actively analyz-

ing ways to tweak the "intercep-

tors" placed strategically at differ-

ent points along the exterior of the

tunnels that help redirect animals

are passing over the road surface

where the tunnels have walls on

both sides," said Parren in an email

to the Independent. "I believe we

are having success but am trying to tease out the impacts of some

animals spilling out the ends of the

walls and not going through the tun-

At the southwest end of one tun-

nel, the night I observe, there was a

steady stream of amphibians march-

ing up to the tunnel entrance and a

"Right now almost no animals

who've made a wrong turn.

two tunnels.

nel."

Photo coutesy of Kiley Briggs

clump caught in a sort of amphibian "roundabout," designed to redirect critters away from the road and back up the hill and into the tunnel.

Parren wants to improve these interceptors to save as many animals as possible.

Amphibians migrate on wet nights, he said, as the ground thaws and the temperatures move above freezing.

This community's efforts represent one small but important step to address that imbalance.

Asked what's brought him out for two decades of cold rainy nights, Parren replied, "Reverence for life."

"Here's a whole community of amphibian species that are dependent on this little patch of Vermont," Parren continued, "and it worked for thousands of years. They've probably been going down to that pool for that long from the hillside. And now we've got a paved road with lots of traffic and it's not working so well for them."

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