

Section 4: Peace River Park

Swimming downstream, Missy enters a swamp. Bald cypress trees stand tall above the water. Streamers of Spanish moss hang from their branches.

An egret perches on a cypress knee. It dips into the water and catches a mosquito fish. Missy eats one too. The fish, as small as a guppy, eats the larvae of mosquitoes.

A hurricane in 2004 blew down branches and trees. Missy hides beneath one and another as the ground becomes more mud than water. She follows the rise of the land toward the scent of sun-baked sand and plants.

Missy wiggles through Virginia creeper and swamp fern. She sees a sidewalk. Across the road is a tall hill. It is taller than the riverbank or a cypress tree.

Missy hears footsteps and dogs panting. She hides in the ferns.

A woman holds her son's hand. She tells him, "That big hill where we parked used to be a clay settling pond from a phosphate mine. It's dried up now, but when it was first made, the watery stuff inside it was really yucky. My friend told me that one time some of it leaked into the river. It killed all the fish."

A man holding the leashes of two dogs says, "Pardon me, ma'am. It's what they now call reclaimed." The dogs pull toward the boy. "Don't worry. These dogs won't hurt you."

Then he turns to the mother. "The hill's planted in grass, and it makes a big, open field. The dogs love it."

The dogs sniff the ground, pulling against their leashes. They whine toward Missy. She holds still.

The man says, "You should walk the boardwalk. It winds through the swamp to the river."

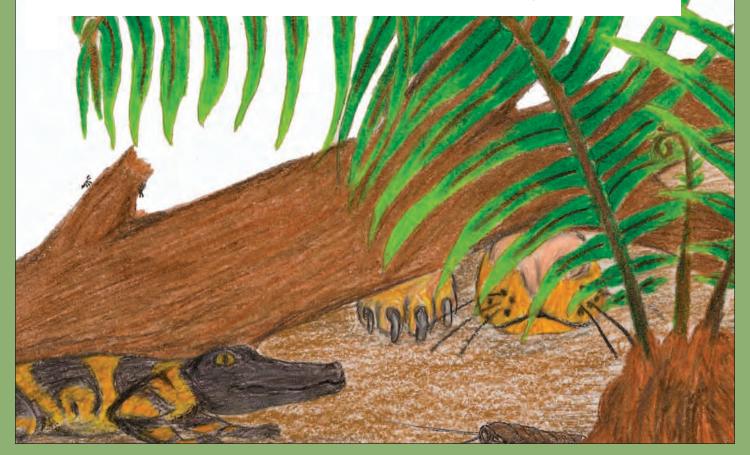
She says, "There's only about an hour of daylight left."

"You have time to walk to the river. You'll want to stop and look at everything. You can even see the high water mark on the tree trunks." The man pulls on the leashes. The dogs bark and whine and tug harder.

"I will — thanks." She smiles at him.

He yanks the leashes. "C'mon, boys," he says to the dogs.

Before she turns to the river, Missy waits until the footsteps fade away.





Section 5: Fort Meade Recreational Park

For centuries, people have crossed Peace River at Fort Meade. Today, U.S. Highway 98 bridges the river, and hickory trees grow on the banks. As Missy passes under the bridge, a nut falls near her. When it rises to the surface, she bats it down. It pops up again as they float together.

At the boat ramp, three men are fishing. One rests the end of his fishing pole on the ground. A bream dangles at the end of his line. "So far, only stumpknockers — and too small to keep," he says.

He works the hook free and tosses the fish. It lands in the water not far from Missy. The fish is the right size for her. She dives and catches it in her teeth. She drags it up on the bank beneath a tangle of twigs. She tears it into chunks as she eats it.

Another man catches a fish and the pole bends. He reels it in. The fish sways at the end of his line. "Look here — a walking catfish."

A third man says, "You're kidding. I didn't think they'd gotten this far north." He sips coffee from a Styrofoam cup with a plastic cover.

The man with the catfish says, "I've been catching them for years. I remember back in the 1960s when they first got loose. It was from a fish farm or truck north of Miami."

"I hear they'll eat anything." The third man sips his coffee again.

"Sure enough. And they can live in the muddiest water. And they'll eat everything in a puddle and then walk to the next one," the first man explains.

The man slips off the plastic cover, drains the last of the coffee and then fits the top on again. He walks up the ramp, tosses it into a trash can and then returns. "You gonna let him go?"

"No way — tastes just like a regular old Florida catfish maybe better." Wearing a glove, he holds the fish. He slips the hook from its mouth. He tosses it into a bucket half full of water. Drops splash all around.

Missy swallows the last bit of fish. She dives into the river and moves south with the current.

EXOTICS AND INVASIVE EXOTICS

by Melissa Cain Nell, Conservation Lands Management Department, Manatee County

If you were born in Florida, you are a "Florida native." Plants and animals can be natives, too, if they live here naturally. Plants and animals that grow naturally elsewhere but have been brought to Florida are called exotics. Often, these species have no predators or other environmental controls and they quickly multiply and take over. When an exotic competes with native plants and animals for food, water, shelter and space, it is called an invasive species. Because of its tropical climate, Florida is a paradise for exotic species, such as the Brazilian pepper tree, melaleuca tree, air potato vine, pasture grass, hydrilla, water hyacinth, wild hog, iguana, European starling, house sparrow, walking catfish and fire ants.



Section 7: Peace River Canoe Trail

The canoes catch up with Missy. First, she hears talking and laughing and the dip of paddles. Then, one paddle thunks the side of the canoe.

She floats beside a branch in the grassy water. The canoes close in.

"Hey — look over there," a man says, pointing to her. "It's a baby alligator."

"Cool, man," another says. "It's so small."

"Look, Daddy," a boy holds up a plastic alligator. "It looks just like my toy."

The boy's father scoops Missy in a net. "Let's have some fun."

Missy struggles. He holds the netting with one hand and the handle with the other, trying to dump her into the canoe. He shakes harder. The claws of one foot tangle in the net. She dangles there. He swings her lightly against the side of the canoe. Her foot twists free, and she thumps into the bottom of the canoe.

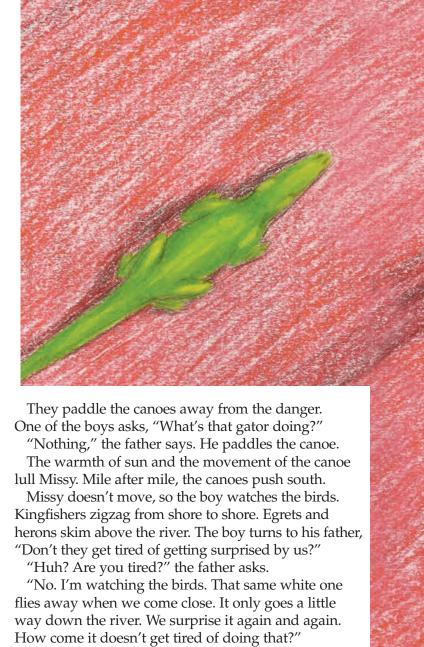
The boy pulls his feet up onto the seat. "Wow! Will it bite?"

"Yes, it will bite! Stay back!"

The boy's father watches the other canoes crowd around to watch. "Throw that toy gator down. Let's see what the alligator does with it."

On the bottom of the canoe, Missy doesn't move. She stands on her three good legs. Her hurt leg throbs.

One man calls, "Heads up! We're drifting into that log jam over there."

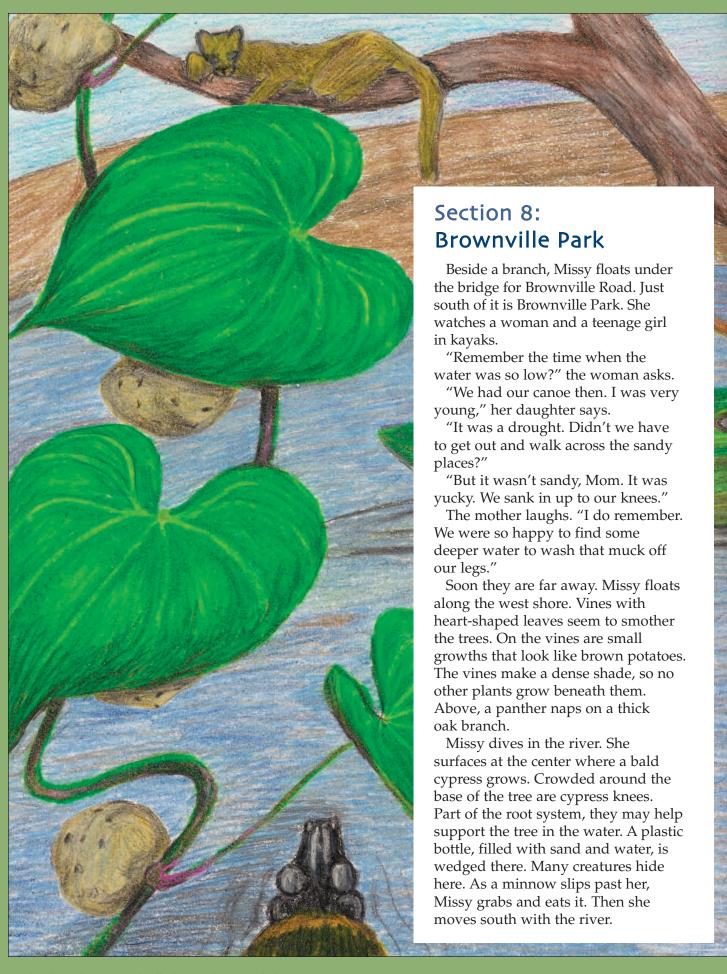


"I don't know, son, but I'm tired of this gator. It might as well have been a toy too." Reaching down, he grabs Missy by the tail and flips her overboard. She swims as fast as she can away from the canoes. ALLIGATOR BEHAVIOR

by Kayton Nedza, Hardee County Outdoor Classroom

In addition to a regular eyelid, alligators have a transparent eyelid. Like swim goggles, it protects the eye and lets the alligator see. Alligators close their ears, which are located behind their eyes, to keep water out of them. They can also close their throats, so they can bite and chew underwater. They raise their heads above water to swallow. Small alligators eat minnows, insects, tadpoles and frogs. Large alligators eat raccoons, turtles, snakes and animals as large as a deer or Florida panther. Strong acid in their stomachs digests bones and teeth. They swallow small prey whole and will rip large prey into chunks before swallowing it.

Florida law prohibits feeding, disturbing or capturing alligators.



Section 9: DeSoto Park and Morgan Park

Missy swims into a hollow log. It is full of water and open on one side. A sound louder than a hundred cicadas startles a mottled duck. As it starts to fly, it seems to run across the water on its webbed feet. The humming echoes from either side of the river. Missy watches a flat-bottomed green boat skim by. Its wake rocks the log. The water sloshes inside. Missy can smell the exhaust fumes and the drips of oil from

the boat engine. Before the waves calm, the noise stops. Then Missy hears another throbbing. A truck with a trailer backs down the DeSoto Park boat ramp. Someone pushes and pulls the boat and winches it onto the trailer. As the truck drives up the ramp, water pours from the engine and boat.

Missy leaves her hiding place. She swims along the east shore. She can hear the thumping of feet. People and dogs jog and walk the trail in Morgan Park. Then she passes under the wide concrete piers for the old bridge and new bridges of S.R. 70. Cars and trucks drive to and from Arcadia.

Thick pine forests once grew on the banks. They were cut for lumber. Many trees in the Peace River Valley have been harvested or cleared away for development. In the warm shallows, Missy hunts for food. She swallows some frog eggs floating in the grasses. Then she feels movement. Cows amble into the river. As one grazes near Missy, a grasshopper flies up. Missy lunges to catch it. The cow looks at Missy and keeps eating.

Missy hears a noise like a trumpet. A sandhill crane calls. Another glides with it, and they land in the grass. Their long bills find insects to eat in the ground.

Cattle egrets also feed with the cows. They snap up bugs that the cows frighten. An egret perches on the back of a cow to eat bugs. Cow manure falls on the sand and in the water, and Missy swims away.

In places, the riverbank is steep and high. In others, the ground slopes to the water. In the early twentieth century, phosphate rock was dug from the riverbed. The sand leftover from the mining changed the shape of the banks.

Missy rests on the slope of a sandbar under a willow tree. Ridges in the sand mark the waves of water. She feels a humming, and then she hears it. An airboat skims by. It throws a spray of wind and water. It feels like rain. It chases a school of minnows toward her. Missy snaps up one, two, three!

BEEF CATTLE

by Kayton Nedza, Hardee County Outdoor Classroom

In the 1500s, Spaniards brought beef cattle to Florida. By the late 1700s, the Seminole Indians had the largest herds. During the Civil War, in the 1860s, the Peace River Valley supplied beef cattle to the Confederate Army. During the 1890s, cowmen fought "range wars" for cattle ownership and

those times were wilder than the "wild west." Today, Florida is one of the top 12 states that supply cattle for beef. Many ranches fence cows from swamps and riverbanks, and they burn the grasslands as part of a natural cycle of fire. Many acres of ranches are native Florida lands, which serve as wildlife habitat.

VISIBLE POLLUTION

by Anita Forester, DeSoto County Outdoor Classroom

Sometimes you can see pollution in a river, such as plastic bags, fishing lines, soda cans, glass bottles, tires or old tools. Some animals may think that pollution is food, but when they try to eat it, they get sick. Other pollution can trap

or grow, and pollution can also kill animals and plants. Many people who use the river collect litter that they find. Local communities also host "river cleanup" days to help the river, and everyone can pick up litter animals or plants so they can't move in the river and on the land.

Section 10: Lettuce Lake

Before dawn, mist swirls above the river. Near Horse Creek, Missy hides. Moonflower vines cover the trees and bushes. Across the river, two bald eagles perch in a dead tree. As Missy wriggles through a fallen branch, she stops. A deer wades into the water to drink. When it walks away, she swims on.

Where C.R. 761 bridges the river, she swims underwater. The rumbling of traffic is not so loud. South of the bridge is an island. The lights of the Peace River Water Treatment Plant shine on one side. Taking water from the river and then treating it, the plant provides water to people in DeSoto, Charlotte and Sarasota counties.

Downstream of the bridge, the river curves and widens here. Buoys mark crab traps. Near lunchtime, Missy floats close to the shore. From one fern, she grabs a green anole. A large alligator crawls onto the shore. A boat full of people turns toward them. The loud speaker echoes across the water: "Alligator to your left."

A man says, "Wow! That's the biggest one we've seen today."

Standing beside him, another says, "I'd say a good 12 feet."

Many people hold cameras. As the boat nudges the shore, the alligator slides into the river.

"There he goes, folks, straight to the bottom. I hope you got a good shot of him," the loudspeaker says. The engine clunks into reverse. The boat shudders again and turns upriver.

Missy stays away from the big alligator and the boats. She swims south along the shore. Crowding out the large ferns and river grasses are Brazilian pepper trees. Above them, a red-shouldered hawk perches in a dead tree. Missy ducks beneath some water lily pads. They only grow here when the river's flow keeps the salt water in the harbor.

Then her foot catches a plastic shopping bag. She pulls, but it is stuck. She tries swimming deeper into the water. Air caught inside the bag keeps it floating. She rips at the bag with her teeth and slips free.

The channel splits again, and she takes the east branch of the river known as Lettuce Lake, named for the plants that look like heads of lettuce. Many houseboats cluster near the boat ramp. Missy dives away from them.

She swims along the bottom of the river. She feels something large — more than one — above her. She hides near a sunken log, and manatees pass above her.

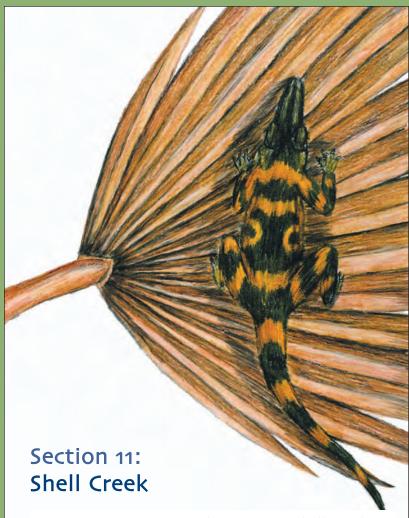
SALINITY

by Curtis Porterfield, Polk County Natural Resources Division

Salinity measures the saltiness of water. Many chemicals can be salts, but the most familiar one is the salt used on foods known as sodium chloride. All water has some salt, because as water moves, it picks up salt from the ground.

Rivers, lakes and streams are fresh water, which is not very salty. Estuaries are where fresh water meets the sea. Their waters are often called brackish, which is saltier than fresh water. The sea is salt water and has a lot of salt in it.

The saltiness of the water affects where aquatic plants and animals live. Some animals and plants like salty water, so they live in the sea or estuaries. Others don't like salty water, so they only live in fresh water.



Peace River turns west where it meets Shell Creek. Upstream, the creek is dammed. It creates a reservoir for the City of Punta Gorda Water Treatment Plant. Downriver, Missy floats under the bridge of Interstate 75, where six lanes of traffic zoom across.

Homes and docks line the southern shore. Soon she passes some cement picnic tables near a historic hunting and fishing lodge. It was named Eagle's Nest Lodge because a pair of eagles nested in a nearby pine tree. A woman and a man sit at a table. Missy hears the woman say, "Many famous people used to fish here."

"What did they catch?" the man asks.

She says, "The harbor was full of fish — snook, redfish, mullet."

"Has sportfishing cleaned them out?" he asks.

"Maybe. Maybe commercial fishing. I don't know," she says.

"I heard that more than 1,000 people a day move to Florida. Maybe the harbor only has room for so many living things. There used to be more fish. Now, there are more people," he says.

Missy paddles away.

Section 12: Alligator Bay

Missy wiggles through the roots of the mangroves. She follows the shore, past condominiums and houses. She swims by Laishley Park, beneath the fishing pier and past the marina. She sees anhingas perched on the power lines that span the river, as evenly spaced as beads on a string.

On the south shore is Punta Gorda. The man who founded the town gave the waterfront as a gift to the people living there. Along the river is Gilchrist Park, named for a local resident who was governor of Florida from 1911 to 1913.

Missy crosses the harbor in the shadow of the U.S. Highway 41 bridges. She moves from one piling to another. Where the water is deep, she dives. She scoots away from a huge grouper.

When she is halfway across, she hears a spray of water. A dolphin comes out of the water to breathe. Another two follow. Then a brown pelican crashes beak-first into the water to catch a fish.

Finally she reaches the north shore. Charlotte Harbor is the oldest community in Charlotte County. Cattlemen and commercial fishermen lived there. Missy swims through pilings for docks, along the shore of Bayshore Live Oak Park and past the Charlotte County Historical Center.

Here, seawalls edge the bank. A brown palm frond shakes loose in the wind and falls on Missy. She swims beneath it for a while. Then she squirms between the fronds. Now it is her raft. In the distance, she can see the Port Charlotte Beach Complex and fishing pier. Canals and houses crowd around it. The current pushes Missy west where the shore is green. Maybe Missy has found a home in Alligator Bay.