



The mission of the Zoological Society of Milwaukee is to conserve wildlife and endangered species, educate people about the importance of wildlife and the environment, and support the Milwaukee County Zoo.

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CEO's Letter



hen we put together last year's Alive calendar, we had no idea what kind of year was in store. It's been tough going at times, but we've nearly made it to the end of 2020. With that in mind, we present our 2021 calendar, filled with stunning animal photos from around the Milwaukee County Zoo. Given the current uncertainty about public events, we chose not to include Zoo and Society events in the calendar. Instead, we're giving you bonus animal photos in the blank spaces

of the calendar. Stay tuned to our website, zoosociety.org, and our Facebook page, facebook.com/ZooPass, for event news throughout the year.

One highlight of 2020 was the opening of the Dohmen Family Foundation Hippo Haven. The habitat includes a 60,000-gallon pool and, for the first time, underwater viewing of the hippos. The Zoological Society is proud to have funded half of the cost of the exhibit as part of our capital campaign for Adventure Africa including a generous lead gift from Robert Dohmen and the Dohmen Family Foundation. On page 6 you will find photos of Happy the hippo and Zoo guests enjoying the new space. On page 5, you can learn more about the complex filtration system that keeps the hippos' water clear and the technician who keeps the system going.

We at the Zoological Society have been hard at work adjusting to the new normal so we can continue to conserve, educate and support the Milwaukee County Zoo. Turn to page 4 to learn more about our Education Department's plans for virtual classes and offerings this school year. We hope to see you online and at the Zoo this winter. I wish you a happy and healthy 2021!

()odi Sibson

Zoological Society President & CEO

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Volume 40, Issue 3

ON THE COVER: Happy the hippo enjoys his new pool. Photo by Joel Miller



BIG EFFORT FOR A LITTLE CUB

The cub spent the first few months of her life behind the scenes as she bonded with her mother, Orya. All photos by Joel Miller

every healthy baby animal at the Milwaukee County Zoo is a victory for Zoo staff, but the new snow leopard cub, Milja, is particularly so, requiring years of patience, careful planning and a bit of luck.

To understand, you have to go back to 2015. That's when the Greater Milwaukee Foundation donated funds to allow the Zoo to acquire a male and female snow leopard in honor of the foundation's 100th anniversary. The male, Asa, arrived later that year from the Rosamond Gifford Zoo in Syracuse, N.Y., and the female, Orya, arrived the next year from Zoo Zurich in Switzerland.

But it wasn't love at first sight, as the leopards had starkly different personalities. Orya was raised like a typical snow leopard in human care, with limited human interaction to help her keep her big cat instincts. As a was born by C-section and his mother rejected him, so he was hand-raised by keepers. As a result, he loves humans and doesn't know how to act around other snow leopards.

"Getting them together for breeding was no easy task," says Katie Kuhn, big cats area supervisor. Typically, a keeper would remain present during animal introductions in case the animals don't get along. "But Asa focused on keeper staff when we were in the holding area, essentially ignoring Orya." Instead, the Zoo installed a camera system to watch them remotely, hoping to encourage them to behave normally around each other. But they still didn't successfully breed until this year.

The keepers and Zoo veterinary staff monitored Orya's pregnancy until she gave birth in May. Keepers continued to monitor the cub by video. They saw her playful personality as she started to stalk Orya. She was shy at first with keepers but eventually came out of her shell, Kuhn says.

The Zoo let the Greater Milwaukee Foundation name the cub. The organization chose Milja (pronounced MEE-lah) in honor of her maternal grandmother, Dshamilja. Dshamilja was born in the wild, introducing a new genetic line into the zoo snow leopard population. Wild snow leopards are almost never brought into captivity today, making Milja's genetics especially valuable.

Milja could stay with her mother for one to three years, depending on Orya's attitude, Kuhn says. If Orya wants to breed with Asa again, she might stop tolerating Milja's presence, indicating that it's time for Milja to join another accredited zoo. Until then, you can see Milja and her mother in the snow leopard exhibit outside Florence Mila Borchert Big Cat Country.

×

Keepers limit their contact with the cub, but they weigh her regularly to make sure she's growing as she should.



As Milja gets older, she shows her playful personality.











CONNECTING THE ZOO TO YOU

ne of the best things about the Zoological Society's classes and camps has always been their location on the Milwaukee County Zoo grounds surrounded by thousands of animals. So what do you do when you can't hold classes at the Zoo?

The answer is to bring the Zoo to educators and learners, wherever they may be. The Zoological Society has been working hard to create brand-new, virtual programming that activates curiosity, expands knowledge and fosters empathy. The new ZooConnect programming comes in a variety of formats, from single classes to packages to live animal encounters.

"It was of utmost importance that we serve our community during this difficult time and keep people connected and engaged to our Zoo," says Julia Petersen, senior director of programs at the Zoological Society of Milwaukee. "We concentrated on exciting and fun ways for learners to continue their education in a non-traditional environment, while also meeting state and national science and conservation standards."

The offerings work around a monthly theme. For example, in October kindergarteners through second graders are learning about invertebrates, grades three to five are exploring ecosystems, and grades six to eight are learning about biodiversity and endangered species. High school content will be offered starting in November. "We are excited to provide live experiences, supplemental videos, and all the fun you've come to love from our in-person classes," Petersen says.

The Zoological Society plans to make virtual programming a permanent part of its offerings, Petersen says. "Whether in-person or virtual, we remain committed to supporting the Zoological Society's mission – conserving wildlife and endangered species, educating people about the importance of wildlife and the environment, and supporting the Milwaukee County Zoo."

for educators looking to schedule programs for a group of children such as a community center or school, we offer developmentally appropriate, standards-based opportunities such as single class offerings, a two-month package and numerous three-month packages. These packages include a free Kohl's Wild Theater performance, for grades kindergarten to five, upon request. Visit zoosociety.org/school for more information.

For parent educators looking to register a single learner for a program, we offer virtual animal encounters and age-appropriate, standards-based experiences that can supplement your child's learning, sponsored by the Corners of Brookfield. Visit zoosociety.org/fall for more information.

Check our website, **zoosociety.org/education**, and your email inbox for updates about programming in November, December and beyond. Contact the Zoological Society at **414-258-2333** to be added to our email list.

With the generous support of Kohl's, schools in need can apply for funding through the Zoo Learning Experience. For more information, visit zoosociety.org/learningexperience. We are committed to serving metro Milwaukee by providing students an opportunity to learn about science and the environment and feel empowered to take conservation action.

CLEAR H20 FOR THE HIPPOS

If you know anything about hippos, you probably know they poop a lot. Keeping that poop out of the new hippo habitat at the Milwaukee County Zoo is complicated stuff. So complicated, in fact, that the Johnson Controls Water Conservation System occupies 7,500 square feet in the basement of the former elephant building and requires its own staff member to monitor it.

Erik Carlson's official title is "life support technician." "The focus of my position is to ensure that the water quality of the hippo exhibit remains optimal for the hippos and for the public's viewing pleasure," he says. That means maintaining the filters and ozone equipment and troubleshooting any problems that arise. He also maintains the ozone equipment for the otter habitat and the Pacific Ocean and Lake Wisconsin exhibits in the Aquatic & Reptile Center.

Because hippos create so much waste, the water would become cloudy and dirty within a day or two without filtration, Carlson says. In the old habitat, the Zoo drained the pool and refilled it each day. The new system allows the same water to be cycled through the exhibit all year long, saving millions of gallons of water per year. The water in the hippo habitat turns over three times an hour.

The ozone system is key. Ozone breaks down organic molecules, including compounds that discolor the water and cause odor. It also disinfects and kills bacteria and viruses that could harm the hippos. "This filtration system would allow us to house multiple hippos in the same exhibit, while keeping the water clear and the hippos healthy," Carlson says.

HIPPO WATER FILTRATION

- The dirty water leaves the outdoor habitat and passes through the two monoscreen filters, which help separate the large solids (hay and debris that blow into the exhibit) from the water. The water then is pulled into the three main pumps.
- The water is forced by the pumps through five large sand filters. The sand filters collect suspended solids in the water. This includes small debris like algae, small pieces of hay and other material that makes it through the monoscreens.
- The water goes through a disinfection process by ozone. Ozone is used to disinfect and kill harmful bacteria and viruses that could accumulate in the outdoor exhibit if left untreated.
- The water passes through the degas tower to draw out the ozone, and then flows back into the outdoor exhibit.
 The entire process through the habitat and filtration system takes 35-40 minutes.



Monoscreen filters remove larger solids from the water returning to the pump from the outdoor exhibit.



The system includes five sand filters that remove fine solids from the recirculating water.



A press squeezes the water out of the waste to allow for the removal of a lighter product.



The three main pumps push the water at a rate of approximately 2,640 gallons a minute.



The jet pumps are set on a timer to turn on and scour the bottom of the outdoor exhibit to remove debris.

All photos by Joel Miller

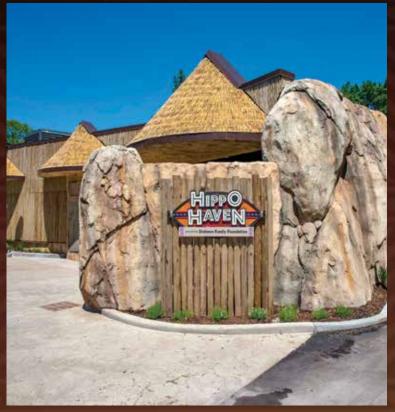
HIPPO HEAVEN

The official name of the new hippo habitat is the Dohmen Family Foundation Hippo Haven, but it's hippo heaven for Happy, the Milwaukee County Zoo's 39-year-old hippopotamus. He loves his new exhibit, with its 60,000-gallon pool, so much that keepers had trouble getting him out of the pool at first. Around this time of year, he will switch to the indoor pool since hippos can't tolerate cold weather, so enjoy these photos of Happy relaxing in the outdoor habitat and an interview with one of his keepers, Ray Hren.

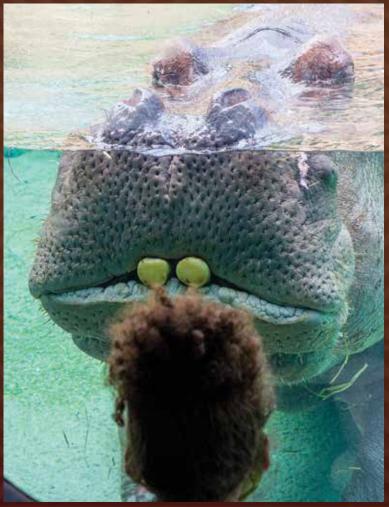
- **Q** What is Happy's favorite activity or behavior in the habitat?
- A He enjoys swimming laps or taking a snooze.
- Q Has anything surprised you about the exhibit or Happy's interaction with it?
- A It was interesting watching his reactions to seeing people through the pool glass for the first time. He looked truly fascinated and would sit there motionless carefully studying people. Now that he's acclimated, he seems comfortable with the public and is even seen posing for selfies now.
- Q Any chance we will see the female hippo, Patti, in the pool?
- A Patti has not shown any interest in going out. We will continue to work with her and give her opportunities to visit the new exhibit, but at her advanced age of 51, we are focused on letting her do what she wants, and she's very comfortable inside.
- **Q** How does it feel, having worked so long on this exhibit, to now see it open?
- A It's a great feeling and relief to see how much Happy has acclimated to the new exhibit and that the public enjoys it so much.



The habitat includes a sculpture of a hippo mom and baby that kids can climb on for photo opportunities. Photo by Joel Miller



The Zoological Society's Creative Department designed graphics for the habitat to match the theme of Adventure Africa. Photo by Joel Miller



(Above and right) Families enjoy watching Happy in his exhibit, and he seems to enjoy watching them. Photos by Garrett Hopkins

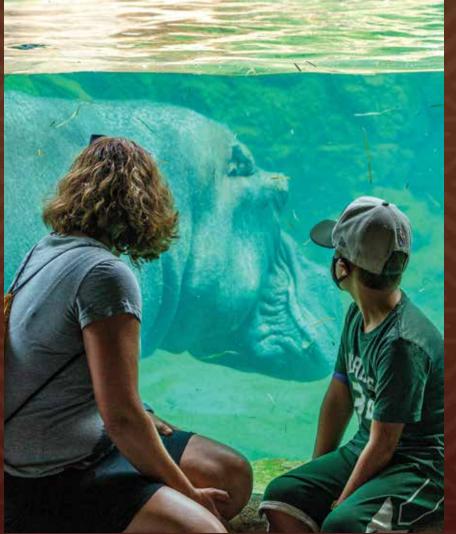


Hippos don't swim but instead bounce along the bottom of the water.

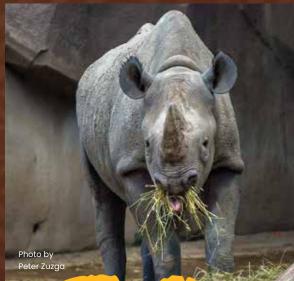
Photo by Garrett Hopkins



The new habitat includes a large beach area where the hippos can graze. Photo by Joel Miller



Next it's the rhino's turn! The Zoo is in the design stage of the final phase of Adventure Africa, a new rhinoceros habitat for Jozi the Eastern black rhino. As with the elephant, African hoofstock and hippo habitats, the Zoological Society will fund 50% of the cost. Visit **Win2Wild.com** to learn more and donate.





JGHUGIFY 2021 ZOOIOGICAL SOCIETY OF MILWAUKEE



At 36 years old, Snow Lilly is considered the oldest polar bear in human care in North America. Polar bears only hibernate if they are pregnant, so you can spot her outside all winter long. Photo by Kevin McIntosh

Saturday	2	6	16	23	30
Friday	J New Year's Day	8	15	22	59
Thursday		Z	14	21	28
Wednesday	Caribou Photo by Bob Wickland	9	13	20	27
Tuesday		2	12	19	26
Monday		4	11	18 Martin Luther King Jr. Day	25
Sunday	North American ** river offers Photo by Joel Miller	ဇာ	10	17	24



February 2021 Concert society of Milwauker Conserve - Educate - Support



spring or six more weeks of winter. Gordy the groundhog is almost 2 years old and was hand raised. Keepers even take him on walks on The groundhog famously predicts each year if we will have an early a leash and harness. Photo by Joel Miller

Saturday	9	13	20	27	
Friday	ស	12	19	26	
Thursday	4	11	18	25 Purim begins at sundown	Prehensile-tailed ** porcupine Photo by Bob Wickland
Wednesday	3	10	17 Ash Wednesday	24	
Tuesday	2 Groundhog Day	6	16	23	
Monday	1	8	15 Presidents Day	22	Emerald monitor ** Photo by Garrett Hopkins
Sunday		7	14 Valentine's Day	21	28

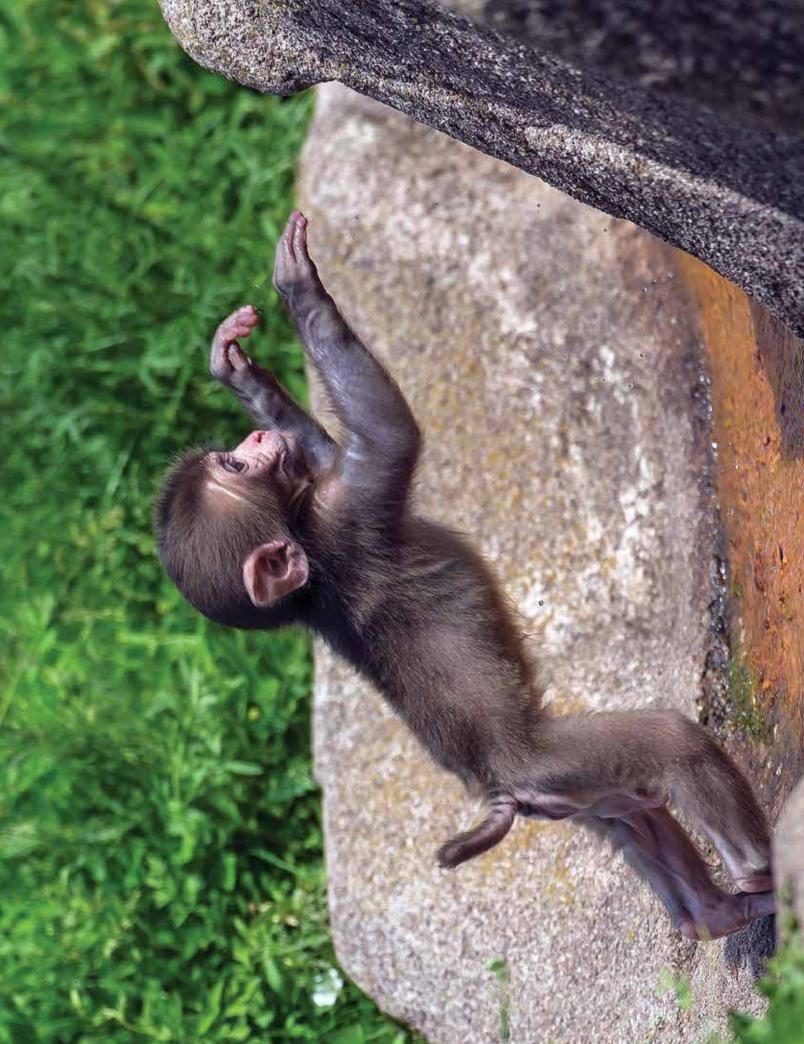


March 2021



Cape thick-knees, found in southern Africa, can fly but mostly stay on the ground in shallow nests. To protect its young, a parent bird will sometimes flop on the ground and fake a wing injury to lure away a predator. Photo by Peter Zuzga

Saturday	9	13	20	27 Passover begins at sundown	
Friday	ស	12	19	26	
Thursday	4	11	18	25	Snow leopard Photo by Joel Miller
Wednesday	દ	10	17 St. Patrick's Day	24	31
Tuesday	2	6	16	23	30
Monday	1	8	15	22	29
Sunday		7	14 Daylight Saving Time begins	21	28 Palm Sunday



April 2021



Macaque babies stay close to their mothers for the first few weeks but then get increasingly braver, as Daisuki is demonstrating. Daisuki, or Suki for short, was born in May 2019. Another macaque, Nikko, was born in May 2020.

Photo by Peter Zuzga

Saturday		10	17	24	
Friday	2 Good Friday	6	16	23	30
Thursday	1 April Fools Day	8	15	22 Earth Day	29
Wednesday		7	14	21	28
Tuesday		9	13	20	27
Monday		2	12 Ramadan begins at sundown	19	26
Sunday	Anaconda Photo by Bob Wickland	4 Easter	11	18	25 World Penguin Day



May 2021



Giraffe Ziggy nuzzles her calf, Desmond. Born in July 2019, he is the third calf for Ziggy and the fifth for father Bahatika. Photo by Peter Zuzga

Saturday			15	22	29
Friday		7	14 1	21 2	28
Thursday		6	13	20	27
Wednesday	White-bellied stork Photo by Joel Miller	5 Cinco de Mayo	12 Eid al-Fitr begins at sundown	19	26
Tuesday		4	11	18	25
Monday		3	10	17	24 Memorial Day 31
Sunday	African elephant >> Photo by Garrett Hopkins	2	9 Mother's Day	16	23



JUIDE 2021



Happy has never been more deserving of his name since he moved to his new habitat in summer 2020. Guests are happy too since the habitat includes an underwater viewing area, allowing them to see Happy underwater for the first time. Photo by Peter Zuzga

Saturday	យ	12	19 Juneteenth	26	
Friday	4	11	18	25	Zebra Photo by Joel Miller
Thursday	3	10	17	24	
Wednesday	2	6	16	23	30
Tuesday	1	8	15	22	29
Monday		7	14 Flag Day	21	28
Sunday	Prairie dog Photo by Garrett Hopkins	9	13	20 Father's Day	27



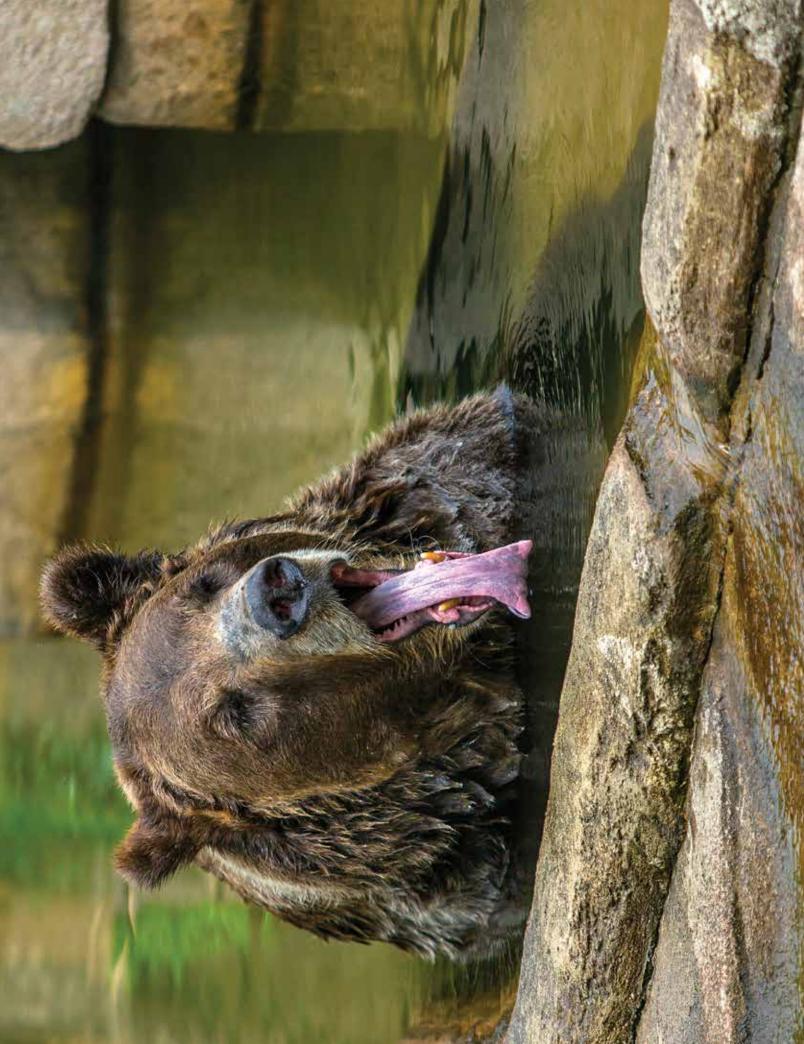
July 2021



This young greater kudu doesn't have horns yet, but eventually he will sport spectacular spiral horns of up to 6 feet. He was born in May 2020 and is named Katavi in honor of Katavi National Park in Tanzania.

Photo by Peter Zuzga

Saturday	က	10	17	24	31
Friday	2	6	16	23	30
Thursday	1	83	15	22	29
Wednesday		7	14	21	28
Tuesday		9	13	20	27
Monday		ស	12	61	5 6
Sunday	Hoffmann's two-toed sloth Photo by Rhonda Crenshaw	4 Independence Day	11	18	25



August 2021



There's nothing Boris loves more than a dip in his pool on a hot summer day. Alaskan brown bears like Boris are some of the biggest carnivores on land. Photo by Peter Zuzga

Saturday	7	14	21	28	
Friday	9	13	20	2.7	Mongoose Photo by Bob Wickland
Thursday	5	12 World Elephant Day	19	26	
Wednesday	4	11	18	25	Sandhill crane
Tuesday	3	10	17	24	31
Monday	2	6	16	23	30
Sunday	1	8	15	22	29



September 2021



aren't related. They were born in 2004 and came to Milwaukee Cheetahs Kira and Imara have a strong bond, even though they together in 2014. Photo by Peter Zuzga

Saturday	4	11	18	25	
Friday	က	10	17	24	American avocet 🌺 Photo by Bob Wickland
Thursday	2	6	16	23	30
Wednesday	1	8	I 5 Yom Kippur begins at sundown	22	29
Tuesday		7	14	21	28
Monday		6 Labor Day Rosh Hashana begins at sundown	13	20	27
Sunday	Reticulated ** giraffes Photo by Garrett Hopkins	ស	12	19	26



October 2021



Fall is your last opportunity to see the flamingos outside before they return to their indoor home for the winter. The Milwaukee County Zoo has two types of flamingos, the dark pink Caribbean flamingos and the lighter Chilean ones. Photo by Peter Zuzga

Saturday	8	6	16	23	30
Friday	1	8	15	22	29
Thursday		7	14	21	28
Wednesday		9	13	20	27
Tuesday	Grizzly bear Photo by Joel Miller	വ	12	19	26
Monday		4	11	18	25
Sunday	Amur tiger Photo by Garrett Hopkins	က	10	17	24 Halloween



November 2021



leaf-tailed gecko. Can you guess why? Its textured brown skin is perfect camouflage for hiding among the leaves in The fantastic leaf-tailed gecko is also known as the satanic the rainforests of Madagascar. Photo by Bob Wickland

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1	2	8	4	ន	9
Z Daylight Saving Time ends	8	6	10	11 Veterans Day	12	13
14	15	16	17	18	19	20
21	22	23	24	25 Thanksgiving	26	27
28 Hanukkah begins at sundown	29	30		** Pekin robin Nicobar pigeons ** Photos by Garrett Hopkins	eons **	



December 2021



Made famous by the film "Finding Nemo," clownfish are found in the Indian and Pacific oceans and the Red Sea. The clownfish at the Milwaukee County Zoo are behind the scenes in coral reef tanks at the Aquatic & Reptile Center. Photo by Bob Wickland

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Red panda Photo by Joel Miller			1	2	က	4
ខ	9	7	8	6	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25 Christmas
26 Kwanzaa begins	27	28	29	30	31 New Year's Eve	



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2021 Calendar

Zoological Society of Milwaukee and Milwaukee County Zoo





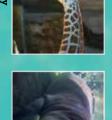












June



















opening of his new habitat in June. Happy is a very happy hippo indeed since the



DO NOT DELAY DELIVERY

MOVING?

DATED MATERIAL

It can be recycled at local stores or at Guest Services inside the Zoo. Plastic mailing bag is 100% recyclable.













