



THE NATURALIST

*The monthly newsletter of the Historic Rivers Chapter
Virginia Master Naturalist Program*

<http://historicrivers.org>

A MONTHLY NEWSLETTER

Volume 9 No.2 March 2015

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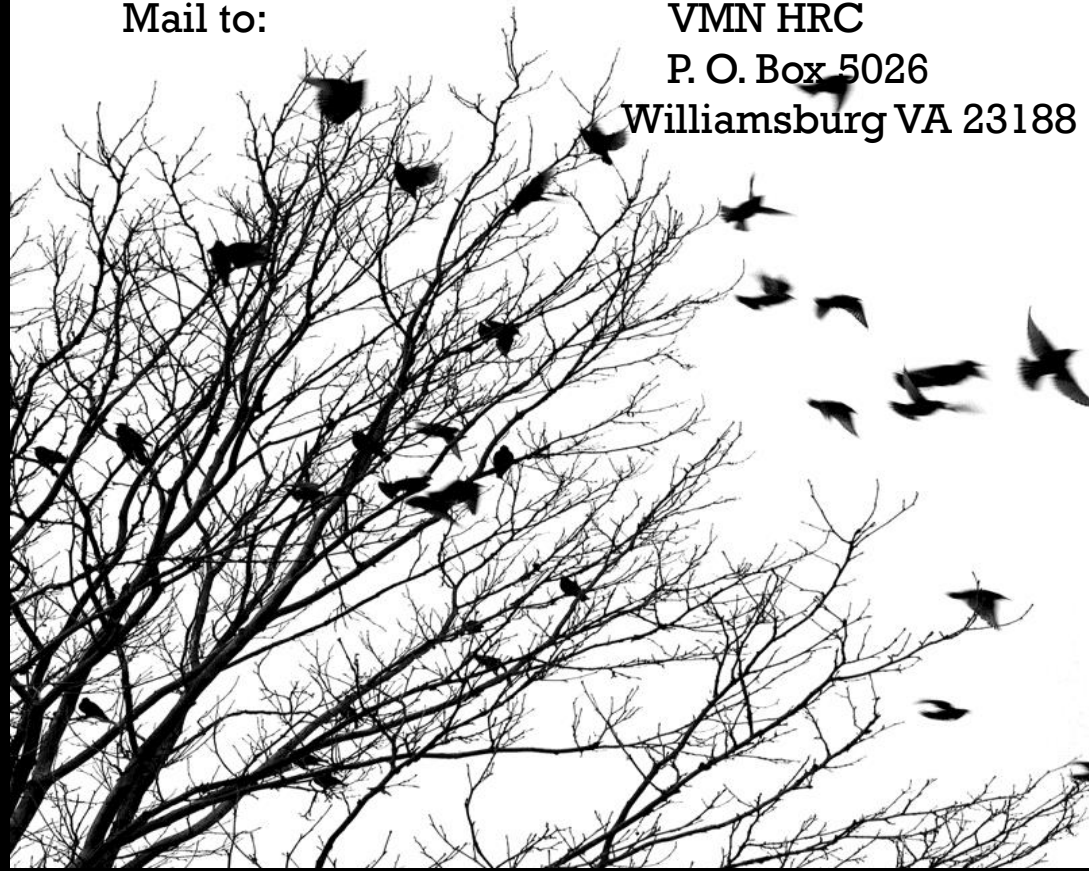
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President's Message

Shirley Devan

Soon after you read this our Chapter will have its Annual Meeting and Graduation for Cohort IX – March 11, 2015 at the James City County Library.

Either one of these would be a milestone event for our Chapter, but when we put them together – WOW! A mega-event and a highlight of our year.

Every year we celebrate the graduation of a new Basic Training Cohort and welcome about two dozen new “members” to our growing Chapter. And this year is no different. As many of you have gotten to know members of Cohort IX on field trips and volunteer service projects, you know that we welcome another set of “stars” to our “tribe.” [I apologize if I’m mixing metaphors!]

Each new cohort is different...and the same. Different talents, interests and skills abound, and they bring the same enthusiasm, energy, and commitment to learning and volunteering that each new cohort brings. Please join me in welcoming them to our “tribe” March 11.

The Annual Meeting also features our annual election of new Board members and Committee Chairs. Since the beginning, volunteers have only been able to serve two years on the Board in a position. This encourages us to bring new faces, ideas, and energy to the Board every year. It also keeps volunteers from “burnout.” About half of the Board and Committee Chairs turn over every year. We thank those who are rotating off the Board for their hours of dedicated service and accomplishments. And we welcome new volunteers to our Board with their new ideas and perspectives. Thank you for serving.

Our Chapter is stronger than ever ... and grows stronger with each new graduating class and new Board.

I look forward to seeing you at our March 11 Annual Meeting.

Notes from the Board

All meetings of the Board of Directors are open to members.

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Virginia Master Naturalist programs are open to all, regardless of race, color, national origin, sex, religion, age, disability, political beliefs, sexual orientation, genetic information, marital, family, or veteran status, or any other basis protected by law. An equal opportunity/affirmative action employer.

HISTORIC RIVERS CHAPTER

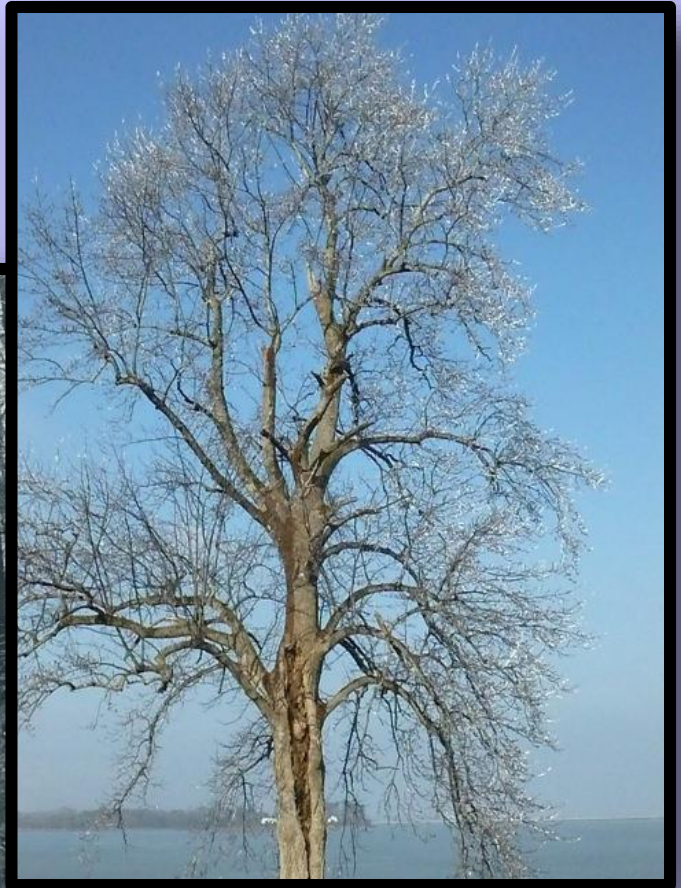
A photo journal of a day at JAMESTOWN ISLAND

photographed by Inge Curtis



HISTORIC RIVERS CHAPTER

I know we are all ready for Spring, but look at these beautiful photos of scenes along the Colonial Parkway on a recent icy day. Photos by Sherry Brubaker



Butterfly Circle News

One of these days, the snow will retreat and Spring will arrive, let's think Butterflies!

In April, spring butterflies emerge and there are several that only come out in April (e.g., Falcate orangetip, Elfins, Duskywings). In the future, we may register a spring butterfly count. However this spring, we should do a little research.

We will need your help! Look forward to a some additional information in Emails.

Adrienne and Gary



A Perspective on Injured Wildlife

Finding an Injured Terrapin

by Erin Chapman

On January 25th, 2015, I trekked out to a tidal marsh with the Bird Club of William and Mary on the eastern shore of Virginia. There we helped a scientist band saltmarsh sparrows for research, taking the opportunity to learn about field research and touch wild birds.

Within the first half hour of being in the marsh, friend and president of the Bird Club, Nick Newberry, found an injured diamondback terrapin (*Malaclemys terrapin terrapin*); which he immediately gave to me. The terrapin, pictured at the bottom of this article, was missing three limbs, which were bleeding minimally, and had a couple indentations in its carapace that could have been teeth marks. The turtle was awake, scrunching its remaining leg (also bleeding) and neck into its shell.

I was unable to care for the turtle or get it to a wildlife veterinary clinic, so after another half hour of holding it, I set it back down in the marsh. Being a pre-vet student, I kept wondering if I did the right thing. I emailed Dr. Dave McRuer, director of veterinary services at the Wildlife Center of Virginia, about the matter, asking for his opinion on the hypothetical treatment of this terrapin and if the terrapin could survive in the wild injured as it was. Dr. Dave (everyone with a doctorate at the Wildlife Center goes by Dr. first-name) sent me a research paper on terrapin injuries and responded:

“The short answer is that if the turtle was in good body condition and the wounds had healed, then putting him back was the correct thing to do. While veterinarians have a tendency to want to ‘fix’ things, we need to keep in mind how the animal fits into the wider ecology. If the wounds were fresh and there were animal welfare issues then it may have been appropriate to keep the turtle, repair the wounds, assess its ability to move around and if appropriate, release back into the wild. This turtle obviously did a fine job of healing its wounds so while it may not have been thriving; it was functioning and likely had minimal quality of life issues.”

Dr. Dave essentially said leaving the terrapin, as I did, is 100% fine because 1) the turtle seemed to be healing fine and 2) even if it died it would become food for some predator and the circle of life would go on. You wouldn't think that a turtle who lost a limb would be able to survive in the wild even after doing “a fine job of healing its wounds”, but a study headed by Cecala, Gibbins, and Dorcas called “Ecological effects of major injuries in diamondback terrapins: implications for conservation and management” would beg to differ.

Continued on next page

HISTORIC RIVERS CHAPTER

Continued from previous page

In the study, they sampled terrapin populations in Kiawah Island, South Carolina, taking note of limb-loss, age, sex, shell damage, mass, body condition, and location. For the purpose of this article, I'm only going to talk about the findings regarding limb-loss. Cecala and company found the general trend to be that turtles with lost limbs tend to have less mass (as you would expect from losing the extra mass of a limb) and slightly lower body condition. The loss of a limb is hypothesized to affect deep foraging, basking, and mating. This inability to perform efficiently at foraging and basking would have a direct effect on body condition. It was noted that a female with three missing limbs was captured and found to be strikingly underweight, suggesting the loss of three limbs to be detrimental to survival in the long run; however, since the study did not focus on limb-loss and survival rates, this is not a solid conclusion.

MY conclusion with this whole experience is that leaving an injured animal where it is should not be an act filled with guilt and regret because, as Dr. Dave said, "we need to keep in mind how the animal fits into the wider ecology", also (in this particular case) the terrapin would be capable of surviving its injuries without human interference. It has been fascinating to learn about limb-loss and shell damage in terrapins with regard to causes and conservation. I would be very interested to learn more about the correlation between limb-loss and survival rates.

Erin Chapman, author for *The Wandering Herpetologist* and *The Herper's Guide*



Photo by Nick Newberry

JCC EXPO

On Saturday, February 21st, eight Master Naturalists gave up about six hours of their day to share the wonders of the natural world with our community. Located in the lobby of the Rec Center, Catherine Short brought Clyde's Zoo and captivated the many families fascinated by those critters. Sherry Brubaker taught folks how to make and cherish treasure boxes. Others donating time, energy, and information were Nancy Barnhart, Danielle Lawson, George Sallwasser, Mike Millin, Jeanne Millin, and Judy Jones. We were thrilled to share information with nearly 100 people who stopped by to look, chat, listen, learn, and discover just how amazing nature truly is!



Photo and story by Judy Jones

UPCOMING OUTREACH OPPORTUNITIES

Please put the following dates on your calendar and volunteer to reach and teach our community....we have the following events headed our way....

- March 20th – Nature Walks for the students of DJ Montague School
- March 21st – Hort Extravaganza at Tabb High School
- April 25th -- James River Fest at EcoDiscovery Park
- May 2nd -- New Quarter Park Birthday Bash
- May 16th -- Family Fun Fest at The Chickahominy
- August 22nd -- Estuaries Day at York River State Park

More information on each of these events will be available as the days draw closer....but mark your calendars now!

Judy Jones, Publicity and Outreach Chairman

HISTORIC RIVERS CHAPTER

The photos below were taken by Les Lawrence at the Chesapeake Bay Foundation's (CBF's) new **Brock Environment Center** in Virginia Beach. Seven HRC members were there on Feb 10th to build wire cages for CBF's oyster restoration program. Participating members were Les Lawrence, Mary Apperson, Portia Belden, Ginny Broome, Bob Gibbs, Thad Hecht, Judy Tucker and Bill Wallace.



An injured bird; what to do? By Kathi Mestayer

I seem to be "lucky." Injured birds find their way to me, or my vicinity more than I would expect. At least three in the past 12 months. Today, it was a brown creeper, making that sickening "thud" on the window (which had stickers on it). The bird stayed stock-still, perching on the window frame, for quite some time, so I took a photo, and tiptoed out the back door for a walk, hoping it would gather its wits/strength and fly away. When I got home, it was nowhere to be seen, so I'm picturing it scooting up a tree trunk.

Last year I visited the Raptor Trust in Millington, NJ, and found a handout with a lot of detail on what to do if you come across an injured bird. In addition to contact info for wildlife rehabbers, it provided info on what to do about nestlings, fledglings, precocial, injured, sick, how to transport, and several others, including the relevant law.

All of this info is on their web site (below)

The link is to the "fledglings" section, but you can click back and forth for other categories. Very useful information.



<http://theraptortrust.org/the-birds/injured/nestlings/?phpMyAdmin=256fdca729402205b5284404d410fb89>

TOOL BOX ADDITIONS

If you're planning a field trip in the next few months, here's some good news. The Tool



Box now contains 6 first aid kits, all updated and ready for check-out. There are two Extra Large Kits for those big trips and 4 smaller kits for activities like wildlife mapping or butterfly counts. So, Trip Coordinators, keep these in mind as you head out the door. Also exciting....we've added a beautiful new table covering for our outreach displays as

well as faux furs of raccoon, otter, rabbit, etc. for teaching purposes. New plaster casts of tracks and scat and some other amazing new items are also now a part of our tool box and ready for check-out .

(photo and story by Judy Jones)

NANCY NORTON SCHOLARSHIP FUND

Thanks to all of your generous contributions, we've had enough donations to fund three Nancy Norton Nature Camp Scholarships to this summer's nature camp. The recipients this summer are Shenan Cole, grade 5 at Matthew Whaley; Heather Herrick, grade 6 at Hornsby; and Brenna Rowland, grade 11 at Jamestown High School. The best part is you get to meet all three and celebrate their success with us, as these three campers will come to our May general membership meeting for a quick introduction. It should be a beautiful way to begin our monthly gathering. Judy Jones

HISTORIC RIVERS CHAPTER

NOTES FROM THE WILDSIDE- BY RAMBLIN CLYDE

In 2005 Carol Heiser was a guest speaker at my Master Gardeners Association and talked about a program she was starting called Habitat at Home that would provide food, cover and water for a variety of wildlife species. I set upon establishing my back yard to conform to the program's guidelines. I built a fish pond, planted a butterfly garden, built a large brush pile and planted a number of shrubs and berry bushes. After submitting photos and a detailed description I was honored to be awarded the 7th Habitat in the program. A friend of mine made a suet/peanut butter log (picture) to go with my feeding station of a regular suet basket, bird feeder and thistle sock. As they said in the movie *Field of Dreams*, "Build it and they will come." The birds came in bunches. I added six bird houses and have enjoyed many families since then.



Interestingly our home is three miles from our Newport News Blue Bird trail. Until this week I have only seen a pair of Blue Birds passing through and never any at the feeding station. Imagine my delight when I saw five Blue Birds eating at the log each morning this last week. I am convinced I have been especially rewarded for being a Blue Bird volunteer. Thank you Jan and Lois!
Ramblin Clyde

**Mark Your Calendar!!
Upcoming General Membership
Meetings**

**March 11 - Cohort 9 Graduation - speaker Evan Davies,
Colonial Beekeepers Association**

**April 8th - Dorothy Geyer - Natural Resource Specialist, Colo-
nial National Historical Park.**

May - TBD

June 10th - Matthias Leu - Biology Dept, College of W&M

MARCH MEETING NEWS –

At our graduation meeting on March 11th, Judy Jones will have available order forms and prices for VMN HRC clothing. If you're interested in polo shirts, T-shirts, hoodies, caps, sweatshirts, and of course, the beloved long sleeve denim, please bring your checkbook with you to the meeting. Orders will be taken that night and must be paid for in advance. Prices range from baseball caps at \$14 to hoodies at \$35.

HISTORIC RIVERS CHAPTER

NOTES FROM THE WILDSIDE— BY RAMBLIN CLYDE

*“Twinkle, Twinkle Little Star
How I wonder where you are.
Now obscured by light pollution.
How I wish there was a solution”*

I came across the attached article about light pollution:

http://www.upworthy.com/only-1-of-all-americans-get-to-experience-this-incredible-sight?c=aoll&icid=maing-grid7%7Chtmlws-main-bb%7Cdl23%7Csec1_lnk3%26pLid%3D614596

It reminded me about a three day adventure I had in an incredibly beautiful place on the Texas coast named Matagorda Island. It was here for the first time in my life I experienced the true majesty of our Milky Way galaxy.

Now for the rest of the story

Treasured Island

The Army sent me St Mary's University at San Antonio TX to complete my degree. There were nine sergeants so selected. During our time at the University we “adopted” an Air Force dependent- Pete R.. He was the husband of an Air Force nurse at Lackland USAF base. Pete who is 6' 2" is a Polish Yankee from Vergennes, Vermont and has a wicked sense of humor. One of our group married a gal from an old Texas Family, The Hawes Family. It was through her we were introduced to Matagorda Island. The Family was one of three families that settled the island and they still maintained a small vacation get-a-way next to Matagorda USAF Station on the northern end of the island. We soon found we could travel to the town of Sea Drift and catch the USAF 8 am launch to the base and return on the 6 pm launch. Once on the island we walked to an inlet called the Army Hole and fished all day.

The first part of this adventure started when Pete and I drove to Sea Drift one Saturday. We boarded the launch and we were half way over when we signed the Steward's roster. I signed in as an active duty Army SSG and Pete signed in as an USAF dependent. When the Steward found out Pete was a dependent he immediately called ahead to the base. It seemed that the week before several teenage dependents had gotten drunk on the base and trashed the recreation area. The C.O. had issued an order barring dependents from the island until further notice. When we arrived, Pete was quarantined by the Air Force police with drawn pistols. I could stay but he had to go back. Needless to say we spent the day fishing from the Sea Drift's sea wall.

Now fast forward a month. Jim D. decided to host our group for a Labor Day Retreat at the family island's ranchette. The invitation was also extended to Pete. We arrived at Sea Drift loaded with food, beer, and fishing tackle. Jim's Uncle-In-Law, Capt. Hawes, met us at the dock and invited us onto his 40 foot shrimp Trawler. As we motored across the San Antonio Bay, he dropped the trawling net and after a half hour we hauled in the catch and dropped it on the stern. It was a bounty of bay shrimp 3-4 inches long, fish, crustaceans, and a lot of creatures I couldn't recognize. We harvested about 100 pounds of shrimp and sundry baits. The gulls and terns formed a screeching cloud over us (and on us) as we swept the deck clean. When we landed at the ranch's dock we put our catch into a wire cage next to it.

Capt. Hawes gave us the two mobile radios and keys to the ranch house and a jeep. He told us to call if we got into trouble otherwise he would pick us up Monday afternoon.

After getting situated at the ranch house we immediately drove the ranch's jeep back to dock and filled up a couple of buckets with bait and headed to the Army Hole. On the way over I noticed a number of wooden tepees about 6 feet tall in the brush. I asked Jim if he knew what they were. He said they were shelters for quail. We stopped and walked up to one. Jim kicked it and a covey of quail exploded out of it. We had to be extremely careful walking off road because of the large number of Western Diamondback Rattle Snakes that infested the area. We caught hundreds of Red Drum, Speckled Sea Trout, Flounder, Whiting, and Sea Mullet during the next three days. Early on we decided to boil and eat as many shrimp as we could. We had shrimp and eggs for breakfast, cold shrimp for lunch, and shrimp on the “barbie” for supper - all washed down with copious quantities of Lone Star and Pearl beer.

The first night we decided to fish at the dock. The sunset was spectacular. I remember later lying on the dock after midnight and looking up. I have never seen stars like that. The Milky Way in all its glory was splashed across the sky and every so often a shooting star fell across the canopy. It was a mystical experience. Then I noticed there were lights in the water! As schools of fish swam by or as we fought fish we hooked, the water flashed with luminescence. Between the sky and the sea it was a show I will carry in my soul forever. To add to all this beauty the night exploded with sound. Coyotes started to talk with one another and the gulls flew overhead in the darkness answering them.

~continued on next page~

Notes from the Wildside continued

The morning brought another wonder. I experienced my first sunrise over the Gulf. The horizon brightened and turned into a fiery gold. The sun rose out of the Gulf of Mexico like a flower growing like Jack's magic bean vine. It finally kissed the water goodbye and rose in its glory. Now I understood the line from Kipling's poem that read, "and the sun rose like thunder out of China across the bay".

The radio crackled and Capt. Hawes told us to drive over to the Gulf beach. He was flying his Cessna and had spotted schools of "Bull" Red fish in the surf. We hooked into fish so big we couldn't land them. They snapped our lines like they were thread. We finally caught a 20 pounder and it was supper on the barbie that night. Another memory was the Bob White quail that greeted us in the morning. It seemed like every fence post round the ranch house had a little male "bob whiting" his head off. It turned out that Capt. Hawes knew the Base Commander. When the C.O. found out we were guests of the Hawes family he send a courier over and invited us to be his guests at the Officer's Club. He sent an AF pickup truck to ride in. Pete (the illegal dependent) stood up in the back of the truck clasping his hands in a victory sign every time he saw an Air Force patrolman. Revenge is a dish best eaten with shrimp and cold beer.

Epilogue

The AF Base closed its doors in 1975. It had served as the controller for a B-52 bomber training range in the middle of the island. It is also interesting to note that at the far end of the island near Rockport is the Whooping Crane sanctuary. The Government took the over the facilities and land and sold them to the Texas Nature Conservatory for 13.6 million dollars. It is now the Matagorda Island National Wildlife Refuge and Nature Area.

Ramblin Clyde



RISK MANAGEMENT

At our last board meeting, Susan Powell and Jennifer Trevino presented information and training regarding our new risk management procedures. This very important information trained us to think differently as well as raised some interesting questions still to be addressed. Even better, the procedures developed by

our savvy thinkers, Jennifer and Susan, will serve as the model for our state's VMN risk management policies. Well done, Susan and Jennifer, and many thanks for the countless hours you've put into this project.

Sherry Brubaker took this photo and then asked "who is this guy?" He's all by himself, ate anything he found and is a little bit smaller than the robin who was nearby (more cardinal sized). He's very black but not iridescent, has white eyes and black feet.



Hart Haynes was the first person to respond to her question and identified the bird as a Rusty Blackbird. Sherry rewarded Hart with an honorary "You Are Very Useful" Award for his quick response!

HRC-2015 Bluebird Monitoring Trails



The HRC Bluebird team monitors stayed true to form on Sunday, March 1! Undeterred by rain and reports of ice pellets and slick roads, 42 of our dedicated Bluebird lovers joined us to celebrate the “kickoff” of the 2015 Bluebird nesting season. We were delighted to welcome 10 enthusiastic Cohort IX members and Steven Little, a student in Joyce Lowry’s classes at Berkeley Middle School. Steven built six “Mercedes” Bluebird boxes and, with his family, installed them at

the school to become the Chapter’s thirteenth trail.

This year three to four of our trails will be trialing a “Two Hole” Nestbox specifically designed to defend the box against House Sparrow attacks by allowing the Bluebird to escape and take the battle outside the box. The results of the HRC trial will be reported to VBS. A recommendation to use larger 8-inch wide cylindrical baffles beneath the nestbox to better deter snakes is being considered.



A report from the Virginia Bluebird Society on the 2014 nesting season was shared. In 2014 the state experienced a 14 percent decline in Eastern Bluebird fledging per box. This was attributed to the long harsh winter of 2013-2014. The HRC trails were compared: we experienced a very slight increase in Bluebird fledges to 3.8 /box in 2014 from 3.7/box in 2013.

After enjoying a Refresher Quiz on monitoring tips, the trail leaders met with their teams to explain their trail organization, expectations, and set up monitoring schedules.

While the training and mentoring of new team members will mainly occur within the trail teams, a comprehensive overview of the lifecycle of the Bluebird and monitoring how-to’s will be presented by Nancy Barnhart and her team at Freedom Park on April 18. This includes a video of what occurred within one member’s home nestbox and information on raising mealworms, which are a yummy protein treat for our favorite birds.

If you haven’t already done so, please consider joining the fun and adventure on the HRC Bluebird Trails. Descriptions of the individual trails can be seen on the VMS Project List.



Photos by Shirley Devan

Jan
Lock-

Trivia Corner

Submitted by Sherry Brubaker

Flamingos can only eat with their heads upside down. (maybe this would be an effective diet for those wanting to lose a pound or two???)

At the deepest part of the ocean, the water pressure is equivalent to having about 50 jumbo jets piled on top of you.

The Pacific Ocean is eight inches higher than the Atlantic Ocean at the Panama Canal.

The archer fish can spit water up to 7 feet to shoot down bugs from overhanging leaves.



How many of its five pairs of legs does a Blue Crab use for walking? How many does it use for swimming? It uses three pairs to walk; one pair to swim. Its front pair of legs are sharp, powerful claws. Its next three pairs are thin legs used for walking, generally sideward (aka "crabwise"); and its rear, paddle-shaped legs are used for swimming.

What does the agouti--a ground-dwelling rodent--do that's vital to the survival of Brazil nut trees in remote South American rain forests? The Agouti is able to crack the thick, hard husk of the grapefruit-size seedpods that fall from the Brazil nut tree--something no other animal can do. After using its incredibly strong teeth to free the seeds from a pod, the Agouti feasts on some of them and buries the rest for future meals. Many of the seeds remain buried and end up sprouting, yielding a new generation of trees.



How many times per second does a mosquito beat its wings? Up to 600.



Genetics account for 85 percent of our attractiveness to mosquitoes. Other contributing factors include cholesterol levels, acid buildup on the skin, and the amount of carbon dioxide we exhale. from "Are You a Mosquito Magnet?" www.webmd.com

Wildflower Spot– March 2015

John Clayton Chapter, Virginia Native Plant Society

BLOODROOT

Sanguinaria canadensis



Bloodroot is one of the earliest, and most interesting flowers in the spring. Sometime in March, a brown tip emerges from the soil with a leaf inside wrapped around the stalk. Delicate white flowers appear above the still-folded leaf. Sometimes two flowering stems will sprout from only one underground stem (rhizome). After the flower is done, the petals drop and the leaf with 5-7 wavy lobes slowly opens. Once expanded, the bright green heavily veined leaf shades the developing fruit. The appearance and actions of the leaf are as interesting as the satiny white flower petals.

Bloodroot is named for the red juice that can be extracted from the rhizome. The root juice or powdered root can destroy tissues and has been used to treat skin conditions such as ringworm, warts, fungal growth, etc. Researchers are investigating the root's value in cancer treatment. An extract has long been used in toothpaste and mouthwash to fight plaque and gingivitis, a use now sanctioned by USFDA. Native Americans used the juice as warpaint and to dye fabrics.

Bloodroot is found in moist but well-drained woodland soil in all but a few counties in the state of Virginia, the range extending throughout the mid to eastern states. Populations of bloodroot are somewhat limited to soils containing high amounts of calcium from fossil shells. Growing 6-8 inches tall in part shade, this plant is one of the spring ephemerals, appearing for only a short time in early spring. Bloodroot will self-sow to form larger colonies each year. The plant goes dormant in mid-summer, and is a good companion to ferns which emerge later in the spring.

For more information about native plants visit www.claytonvnps.org.

By Helen Hamilton, past-president of the John Clayton Chapter, VNPS

Photo: Bloodroot (*Sanguinaria canadensis*) taken by Helen Hamilton



WILLIAMSBURG BOTANICAL GARDEN

www.williamsburgbotanicalgarden.org

Photos and text provided by Helen Hamilton and Shirley Devan



SATURDAYS: MARCH 28, JUNE 27, & OCTOBER 17

NEW! ADULT PLEIN AIR PAINTING AND SKETCHING

Time: 10 am to 11:30 am

Bring your chair, an easel, a sketchpad, or a nature journal and get to know the seasons! Artist Linda Miller will kick off each session with a botany overview for artists. Then take your gear out to the garden to paint and sketch for an hour or two or even the entire day. Rain or shine. A \$5 donation to WBG is appreciated.



SATURDAY APRIL 25, 2015 (RAIN DATE SAT MAY 2)

NEW! ADULT INTRODUCTION to BOTANICAL PAINTING

Instructor: Linda Miller Working with a dogwood bloom drawing created by the artist, participants will learn to mix with primary colors and paint using the three key watercolor techniques. All materials provided by the artist.

Fee \$40.00 10 Seats Time: 9:30 am to 12:30 pm

Register with Linda at botanicalarttoday@yahoo.com



SATURDAY MAY 9, 2015

CHILDREN BOTANICAL SKETCHING PROGRAM

Instructor: Linda Miller

Ages 8-16 Time: 10 am to 11:30 am 15 Participants

Learn how to observe and draw stems, leaves, and flowers from the garden! All materials donated by the artist.

A \$5 Donation to WBG is appreciated. Registration is required at sherrypat2@yahoo.com by May 7th.

HISTORIC RIVERS CHAPTER

Continuing Education Opportunities for March/April 2015

Remember to go to our chapter's calendar for all event details! http://www.historicrivers.org/?page_id=1246

[CE]: Butterfly Garden with Joni Carlson - March 7, 2015 from 11:00 am to 12:00 pm
at McDonald Garden Center, 1139 West Pembroke Avenue, Hampton, VA

[CE] Monthly meeting - March 11, 6- 9:00 pm at JCC Human Services Bldg., 5249 Olde Towne Rd., Williamsburg

[CE] WBC Bird Walk at New Quarter Park - March 14, 8:00 - 10:00 am at New Quarter Park, 1000 Lakeshead Dr., Williamsburg

[CE]: What is that Weed? - March 14, 10:30 - 11:30 am at Freedom Park Interpretive Center parking lot

[CE] HRBC Bird Walk - March 15, 7:00 - 10:00 am at Newport News City Park

[CE]: VIMS - March Discovery Lab-Birds - March 17, 6:00 - 8:00 pm at MS - Catlett-Burruss Research and Education Lab

[CE] WBC Monthly Meeting - March 18, 7:30 - 9:30 pm at College of William & Mary, Andrews Hall, Room 101

[CE]: NPS meeting: Teta Kain will speak about "The Moths Among Us" -March 19, 6:45 pm to 9:00 pm at Yorktown Public Library, Route 17.

[CE]: HRBC Field Trip to Craney Island - March 21, 8:00 am to 3:00 pm at Craney Island, Portsmouth, VA

[CE] WBC Bird Walks at New Kent Forestry's "Walk in the Forest", - March 21, 8:00 am to 2:30 pm

[CE]: THE GEOLOGY OF PLANTS - March 21, 10:00 am to 12:00 pm at Freedom Park Interpretive Center

[CE]: Bees, Beetles and the Bay: Pesticide Impacts on Aquatic and Human Health and Pollinator Protection for a Healthy Chesapeake - March 25, 8:30 am to 3:30 pm at Virginia Institute of Marine Science, 1208 Greate Road, Gloucester Point, VA

[CE]: VIMS Lecture - Beautiful swimmers: blue crabs in Chesapeake Bay - March 26, 7:00 - 8:00 pm at VIMS - Watermen's Hall, McHugh Auditorium 1375 Greate Road

[CE] WBC Bird Walk - March 28, 7:00 - 9:00 am at New Quarter Park, 1000 Lakeshead Dr., Williamsburg

[CE] HRBC Bird Walk - April 5, 7:00 - 10:00 am at Newport News City Park

[CE] Monthly meeting - April 8, 6:00 - 9:00 pm at JCC Human Services Bldg., 5249 Olde Towne Rd., Williamsburg

[CE] WBC Bird Walk at New Quarter Park - April 11, 8:00 - 10:00 am at New Quarter Park, 1000 Lakeshead Dr., Williamsburg

[CE] WBC Monthly Meeting - April 15, 7:30 - 9:30 pm at College of William & Mary, Andrews Hall, Room 101

[CE]: BLUEBIRDS IN OUR GARDENS - April 18, 10:00 am to 12:00 pm at Freedom Park Interpretive Center

[CE] HRBC Bird Walk - April 19, 7:00 - 10:00 am at Newport News City Park

[CE] VIMS April Discovery Lab-Climate Change - April 21, 6:00 - 8:00 pm at VIMS - Catlett-Burruss Research and Education Lab

[CE] WBC Bird Walk - April 25, 7:00 - 9:00 am at New Quarter Park, 1000 Lakeshead Dr., Williamsburg