Oracle Foothills Neighborhood Association

Volume 11, Issue 38 May 2008

Those busy little Pollinators

Bees



With so much bee activity around the neighborhood this Worker bees have a barbed stinger which rips out of the pollinate the crops, and so many non-food products, like many as 50,000 bees. cotton and medicines, are also dependent on members of the order Hymenoptera, in the phylum Arthropoda. The AFRICANIZED BEES majority of plants cannot reproduce without pollinators, vival.

native to North America but were introduced from Europe. with the European variety. Inevitably, some of the bees Honey bees have a fascinating and highly organized social escaped and began freely hybridizing and reproducing.

system. Essentially, there are three castes, to which all bees in a hive belong - Oueens, Drones and Workers. Each hive contains only one queen and it's her job to make more bees. She can lay up to 1500 eggs per day and can live from 2 to 8 years. Drones are males and thus have no stinger. They, too, have only one function, and theirs is to mate with the queen. Life is short for the drones - only about eight Worker bees, wouldn't you weeks. know, are all females, and sterile ones

at that. They comprise the majority of bees in a hive and have different jobs depending on their age. Younger workers are called house bees and are the ones who do the comb construction, brood rearing, cleaning, temperature regulation, hive defense, and tending to the queen and drones. Older workers go out and forage for food and are called . field bees. They locate and bring the pollen and nectar back to the hive. Foragers must collect nectar from about 2 million flowers to make one pound of honey. The average forager makes about 1/4 teaspoon of honey in her lifetime.

spring, it seems like a good time to write about these fasci- abdomen after use, thus killing the bee. Bees use a form of nating and most important pollinators. Approximately one- chemical communication known as pheromones to coordithird of our food supply depends on the activity of bees to nate hive activities. An average beehive may contain as

and bees are by far the most important of all pollinators. So, this is all very interesting, you say, but what about Bees couldn't care less about our food supply, or about the those 'killer' bees? Those are nothing more than European production of seeds. They are providing for their own sur- honeybees that have hybridized with the African variety of honeybee. In an effort to improve the honey production and hardiness of captive bees, a Brazilian bee researcher While most people think first of honeybees, they are not brought the African variety to Brazil in 1956 and bred them

> The aggressive traits of the African bees Arizona.

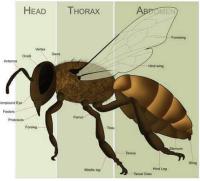
dominates the hybrids. The march north of the hybridized bees began in 1957 and continues today. First discovered in Arizona in 1993, the Africanized Honeybees (AHB) now have hybridized with all honeybees in

How they differ from European Honeybees:

More frequent swarms. A swarm is a group of bees that is forming a new colony. While EHB hives will swarm once every 12 months, the AHB may swarm as often as

every 6 weeks, with perhaps a couple of swarms each time. If you see a swarm in a tree or other structure, it is likely to be resting before moving on to find a nesting site. Individual foragers or bees in a swarm are not likely to sting.

Aggressive defense of the nest - AHBs are far more aggressive in defending their nest and will defend it from a greater distance. Bees will respond to a distur-



Honeybee (Apis mellifera)

(Continued on page 2)

(Continued from page 1)

bance from people, animals or power equipment as much as 50 away from the hive. More bees come out to defend the nest, they get agitated sooner and stay agitated longer.

site. Places such as water meter boxes, metal utility poles, cement blocks, junk piles, house eaves, sheds. A BEE KEEPER OR EXTERMINATOR. holes in the ground and tree limbs, attics and mail boxes have been known to serve as nest sites.

You may inadvertently disturb the bees when you come too close to the hive. It is good to remember that lightcolored clothing will not be as attractive to bees as darkcolored

What to do if you are attacked by honey bees:

- Run away as quickly as possible, and keep going.
- Cover your face, if necessary raising your shirt to do
- Continue to run until you reach shelter a car or build-
- Do not swat or flail your arms. This will attract more
- Do NOT jump into water. Bees will wait for you to come up.
- Once you are safe, remove all stingers by scraping them out sideways with a credit card or fingernail. Do not pull the stinger out as this will inject more venom into the wound.
- Call 911 to report a serious attack. You may need medical treatment if you have been stung numerous times, are feeling ill or if you are allergic to bee stings.

BEE PROOFING YOUR BUILDINGS AND YARD

- Remove potential nesting sites, which might include buckets, cans, empty boxes, old tires, or any container ranging in volume from as little as 2 to 10 gallons and more. Bees will also choose infrequently used vehicles, lumber piles, holes and cavities in fences, trees, and the ground, in sheds, garages, and other outbuildings between walls or in the open, low decks or spaces under buildings.
- Inspect walls and eaves of your house and all outbuildings.
- Seal openings greater than 1/8-inch in walls, around chimneys, plumbing, and other openings.
- Install screens (1/8-inch hardware cloth) over rain spouts, vents, cavities of trees and fence posts, water meter/utility boxes, etc.

From spring through the fall inspect once or twice per week for bee activity around your house and yard.

If you discover a hive of Africanized bees on your AHBs are far less discriminating about their nesting property, DO NOT ATTEMPT TO REMOVE THEM YOURSELF. CALL A PROFESSIONAL - EITHER

NATIVE BEES

Although honeybees are so important for us, there are hundreds of native bees that are particularly important for native plants in North America, including many different kinds of solitary bees that specialize in different species of cactus. The region around Tucson is thought to have more kinds of native bees than perhaps anywhere else in the world. Desert bees differ from the highly social honeybees by being primarily solitary, and by burrowing in the ground for their brood cells. Female bees of all types make their living by foraging for nectar and pollen in flowering plants. As with honey bees, it is only the females who are capable of stinging.

Some of our native bees include:

Bumblebees (Bombus sp.) - very large bees, some over an inch long which are covered with dense yellow and black bands of hairs. Although they are social nesters, they do not have the highly ordered society of honeybees. A new nest is made each spring by solitary queens, often in an abandoned field mouse nest.

Cactus Bees (*Diadasia sp.* as well as several other genera) - This is not one type of bee, but a general category of bees that specialize in collecting nectar and pollen from Most, like our common cactus bee cactus flowers. (Diadasia rinconis), are ground nesters, and though they are considered solitary they nest in large aggregated sites which may number in the hundreds of thousands of individual nests.

Carpenter Bees - Another very large bee with a dark, shiny abdomen. The female makes her nest by tunneling into wood, including the dead flower stalks of agave and sotol or perhaps the beams of your house. It can be disconcerting to have this huge bee buzz by your head, but the males cannot sting and the females are quite docile.

Sweat Bees - small, metallic-colored bees which are solitary ground nesters. They are attracted to water (or

(Continued on page 3)

(Continued from page 2)

sweat), but their food is the normal pollen and nectar.

tle rounded holes in the leaves of your plants, you are see- then capping it with mud also. ing the work of leaf cutter bees. The plant parts are used on their legs.

Mason Bees (Osmia sp.) - Also good pollinators like the leaf cutters, these solitary bees make nests in the aban-

doned tunnels of wood-boring beetles. After laying an egg and provisioning it with enough food to feed the larva to adulthood, the female closes the cell with mud, repeat-Leaf Cutter Bees (Megachile sp.) - If you've noticed lit- ing this process until the tunnel is completely filled and

to build their nests in dry, protected areas. Leaf cutters In closing, I want to emphasize that bees are highly comare far better pollinators than honeybees, one bee doing plex creatures that perform many important and desirable the job equal to 20 honeybees, using a brush of hairs on functions. I wish to leave you with a sense of wonder, the underside of the abdomen rather than pollen baskets respect, understanding and tolerance rather than fear and loathing. Educating yourself on potential dangers will help keep you and your family safe.

Carole DeAngeli

References

- Phillips, Steven J., and Comus, Patricia Wentworth, eds. A Natural History of the Sonoran Desert, Arizona Sonora Desert Museum, Arizona Sonora Desert Museum Press, 2000
- U.S. Department of Agriculture, Agricultural Research Service, Carl Hayden Bee Research Center, http://www.ars.usda.gov/Research/
- Great Plains Nature Center, 6232 E. 29th St. North, Wichita, KS 67220-2200, Jim Mason, http://www.gpnc.org/honeybee.htm
- The Biological Information Office of the U.S. Geological Study, National Biological Information Infrastructure, http:// pollinators.nbii.gov/
- Desert Ecology of Tucson, Arizona, Pima Community College, http://wc.pima.edu/~bfiero/tucsonecology/animals/ arth hobe.htm
- Desert Discovery, The University of Arizona, Dr. Katrina Mangin, http://desertdiscovery.arizona.edu/cactus.html
- Texas A & M University, Department of Entomology, http://honeybee.tamu.edu/about/index.html
- My thanks also to Elizabeth Bernays, our neighbor and retired Professor of Entomology, University of Arizona.

NEIGHBORHOOD WATCH

Please DO NOT HESITATE TO CALL 911 IF YOU SEE SUSPICIOUS ACTIVITIES!

An officer will respond and will also phone to tell you the results, if you request this information.

> Area Leader Carolyn Hoenig 887-3815 cs2hng@dakotacom.net

Oracle Foothills Neighborhood Association Financial Statement 2/4/08—4/28/08

Balance Forward \$12223 Income 100 Expenses 736

New Balance \$11587

Details are available to all members from the Treasurer, Jay DeAngeli

Phainopepla

The shiny all-black body and conspicuous crest make this beautiful desert bird instantly recognizable. White wing patches are visible only in flight, and be sure to check out the red/orange eye! The females and juveniles are a dusky gray color with pale wing patches. Although they are in the family of Silky Flycatchers (Ptilogonatidae), the phainopepla's preferred food is the berry of the desert mistletoe. Any berries will do, however, and insects make up the rest of the diet. In the hotter months most phainopeplas will migrate to higher cooler elevations and return in the fall



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the hotter months most phainopeplas will migrate to higher, cooler elevations and return in the fall. You'll have to listen carefully to hear their soft, sweet call and the occasional short, warbled song.

MUTT MITTS

Forgot to bring a bag along when walking your dog? Now you have nothing to worry about if the need should arise for Fido to leave a deposit along the way. OFNA has installed 3 Mutt Mitt dispensers around the neighborhood at the corners of Genematas & Yvon, Maria & Agave and Genematas & Canyon View at the Triangle Park. The bags are high quality and we're sure you will find them excellent for the job at hand or for carrying that bit of trash you were kind enough to pick up on your walk.

By using the Mutt Mitts and picking up after your dog, you'll be doing your part to make Oracle Foothills a nicer place to live. Many thanks to those who have already been utilizing the mitts.

Enjoy your travels around the neighborhood!



Real Estate Report

Comparative Market Analysis for listed properties in Oracle Foothills Estates. "Sold" properties have closed escrow within the last 6 months. *Data provided by Camille Zachmeier, Realtor*



Status	# Properties	Avg. Price	Price/Foot
Active	4	535,999	244.68
Contingent	1	389,000	164.90
Sold	4	366,725	157.47

Manufactured and Affordable Housing Strategy Committee

By Carole DeAngeli

Early last year I was appointed by Supervisor Ann Day to serve as her representative on a newly established committee whose original intent was to study the possibility of allowing manufactured housing into a wider array of zoning areas in unincorporated Pima County. By the time the committee had actually formed, the charter had expanded to include the much larger issue of affordable housing in Pima County. As you can imagine, this is an extremely broad and complex issue, and not one I have any hope will be solved by this committee.

Also on the committee are representatives from each of the other supervisors, neighborhoods, Pima County staff, manufactured housing industry, affordable housing agencies, and the Pima County Housing Commission. The committee is separating the 'manufactured' from the 'affordable' portions of our goals. Until recently we were working exclusively on recommendations to increase the availability of affordable housing to those within the range of 80-120% of Area Median Income. (Pima County AMI is currently around \$52,000). All of the committee's recommendations on this issue will be forwarded to the Housing Commission for further action.

The manufactured housing industry would like to see the zoning code amended to allow multi-unit manufactured housing in areas currently zoned CR-3,4 and 5, from which they are currently excluded, and to include design requirements that would make the units compatible with site-built neighborhoods. The zoning in Oracle Foothills is CR-1 and is based on the minimum lot size allowed. Zones CR-3 (Single Residence Zone), CR-4 (Mixed Dwelling Type Zone) and CR-5 (Multiple Residence Zone) are much smaller properties. The MH people seem to believe that property values and neighborhood attitudes would preclude

manufactured housing from CR-1 and other zones with larger properties, and at this point there is no discussion of including those areas in the text amendment process.

Presently in Pima County, multi-unit manufactured housing (units built after 1976 conforming to HUD standards) is allowed in a number of residential zones - IR, RH, GR-1, SH, CMH-1, CMH-2, MU and TR. Last week the committee toured a variety of subdivisions including older and newer CR-3,4, and 5, and manufactured home developments of various ages and sizes. Recommendations for any zoning code text amendments will go to the Planning and Zoning Commission and then, if approved, to the Board of Supervisors for their approval.

Newer subdivisions in zones CR-3,4,5 may preclude manufactured housing in their CCR's, in which case they would not be affected by any change the committee would make. However older subdivisions may have CCR's that do not mention MH specifically, or whose CCR's have lapsed. If the zoning code were to be amended, manufactured housing would be allowed as infill in those developments.

The committee's current schedule calls for our work to be completed in September or October. Meetings are held monthly on the 4th Wednesday from 4 to 6pm. All meetings are open to the public. The MAHSC website is: http://www.pimaxpress.com/Planning/MH.htm

For more information on the current zoning code, go to http://www.co.pima.az.us/cob/code/c18a.html#2090

Please contact me if you would like more specific information on the committee's activities and proposals, or if you would like to attend a meeting.

Carole DeAngeli 690-1107 ejdeangeli@earthlink.net

E-MAIL UPDATES

Neighborhood e-mail updates are sent out generally once a week. If you are not currently on the distribution list and would like to be, please send a request to the address below. If you do not have e-mail, perhaps a neighbor would be kind enough to print their copy for you. It doesn't hurt to ask.

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PAGE 6	DESERT DWELLERS	VOLUME 11, ISSUE 38



SAVE THE DATES

Here are some important neighborhood dates to put on your calendar:



- September 13 All neighborhood Annual Meeting Dove of Peace Lutheran Church 9am - 12pm
- October 25- Neighborhood Picnic In the wash next to 220 E. Yvon Dr.

Update on the Friendly Village Wash Remapping

ers, the Pima County Flood Control District has re- clock began. mapped the 100-year flood plain of the Friendly Village Wash - the main wash system that runs After the new maps have been approved by FEMA, through our neighborhood. Agency (FEMA) in December of 2007.

After reviewing the maps, FEMA requested addi- flood insurance. tional information regarding engineering drawings of the culvert system under 1st Ave. This additional OFNA will have copies of the new maps at our aninformation should have no affect on the new maps nual meeting on September 13th. of our washes. Once the culvert information was

As we told you in the last issue of the Desert Dwell- submitted in mid-April, the new 90-day approval

The new maps were all residents who are affected by the changes will be submitted to the Federal Emergency Management notified. As a result of the new, more accurate maps, some residents may find that they are no longer in the flood plain and will no longer require

Jay DeAngeli



WATER HARVESTING

Before long, the monsoon will be bringing our wonderful summer storms with their often intense downpours of rain. When rain falls that rapidly, most of it runs off so quickly that it has no time to soak into the

ground and benefit our landscaping. Capturing and storing rainfall to irrigate plants is known as water harvesting, and is one of the oldest gardening methods known. Water harvesting can help reduce your dependence on municipal water, lower your water bills and decrease landscape maintenance needs.

In Tucson there are many resources to assist you in learning about and establishing a water harvesting system for your home. The Cooperative Extension service of the University of Arizona offers a great deal of information on the subject and is an excellent place to start. They conduct a full schedule of workshops on water harvesting as well as on xeriscaping and drip irrigation.

At their publications office at 4101 N. Campbell, you can get an informative booklet on the subject: Harvesting Rainwater for Landscape Use by Patricia Waterfall.

Here is information about upcoming workshops:

Harvesting Rainwater for Landscape Use This workshop teaches simple and complex water harvesting methods. Discussion focuses on passive ways to redirect water for immediate use and active ways to capture water for later use. Water harvesting can help to offset landscape irrigation costs as well as reducing the dependency on municipal or well water supplies.

Instructor: Scott Calhoun, Zona Gardens

Schedule: July 26, October 8 Time: 9:00 - 11:00 a.m.

Location: Pima Country Cooperative Extension, 4210

N. Campbell, 520-626-5161

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