

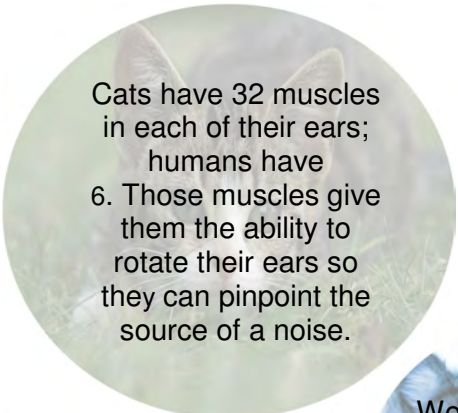
# Sound BYTES

INFORMATION FOR YOUR EARS

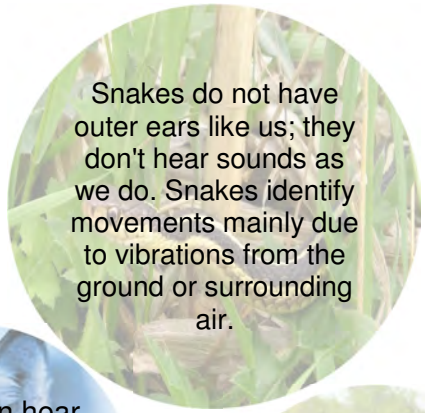


## HEARING OF ANIMALS AND INSECTS

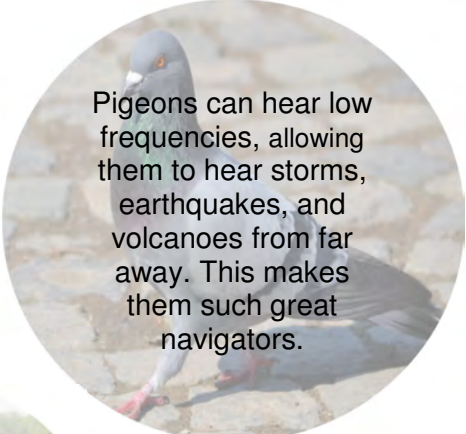
Humans are not the only ones with incredible hearing.  
Take a look at these interesting facts about our animal friends:



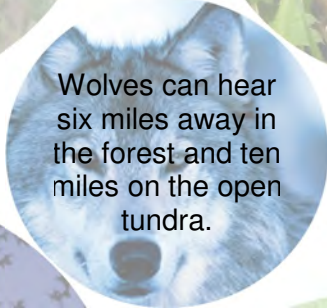
Cats have 32 muscles in each of their ears; humans have 6. Those muscles give them the ability to rotate their ears so they can pinpoint the source of a noise.



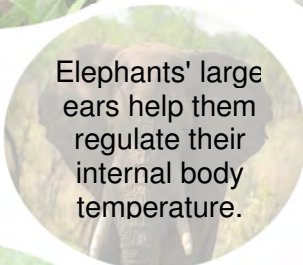
Snakes do not have outer ears like us; they don't hear sounds as we do. Snakes identify movements mainly due to vibrations from the ground or surrounding air.




Pigeons can hear low frequencies, allowing them to hear storms, earthquakes, and volcanoes from far away. This makes them such great navigators.




Wolves can hear six miles away in the forest and ten miles on the open tundra.



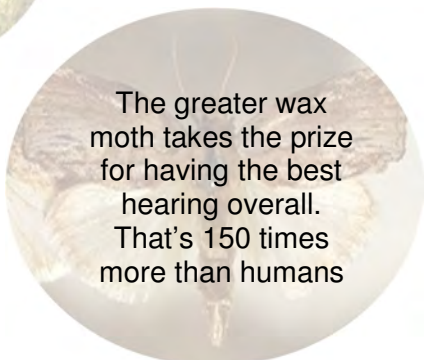
Elephants' large ears help them regulate their internal body temperature.



Bats have the best hearing of all land mammals. Bats hunt at night using echolocation. Echolocation utilizes sound waves and echoes to identify objects.



Dogs can hear much higher frequencies than humans can hear. This makes them sensitive to loud noises



The greater wax moth takes the prize for having the best hearing overall. That's 150 times more than humans

### IN THIS ISSUE:

**PAGE 1:** Hearing in the Animal Kingdom  
**PAGE 2:** Sounds of Summer

*Kindness is the language which the deaf can hear  
and the blind can see.*

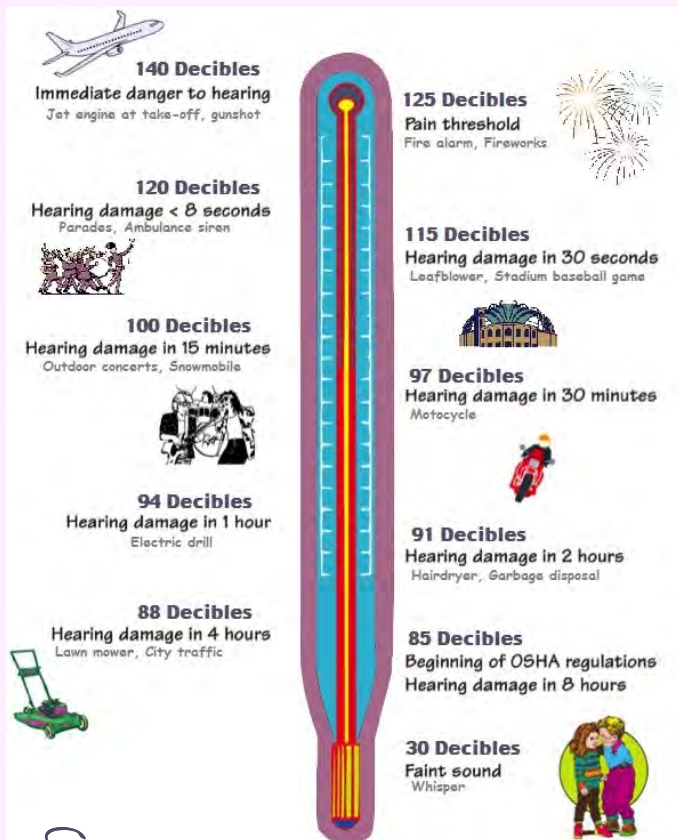
*-Mark Twain*

*Congratulations to Dr. Kasey Englebert and her new husband Evan Gillmore on their recent marriage.*

*More information to follow in the next newsletter.*



## SOUNDS OF SUMMER



- **Baseball** is said to be America's favorite pastime. However, games average 94 dB and get as loud as 114 dB.

- **Outdoor concerts** and music festivals are a great way to enjoy a live music; however, they tend to be louder and can easily exceed 100 dB.

- **Fireworks** are a great way to celebrate, but they can reach up to 125 dB at times. A 125 dB sound is only safe for about 3 seconds.

- **Summer chores**, such as mowing the lawn, using hedge trimmers, leaf blowers, and chainsaws, make for a

well-maintained yard but can measure between 80-105 dB.

- **Motorcycles** are a great form of transportation in the summer, but the roar of the engine and the wind noise can reach levels of over 100 dB.

- **Parades** are fun to attend in the summer but can produce high levels of noise reaching up to 120 dB.

It is important to consider protecting our hearing and our children's hearing from the exposure to these loud sounds. Remember that hearing damage can start at 85 dB.

Summer is finally here! When we think of summer we think of baseball games, concerts, fireworks, yard work, motorcycles, parades, etc. We enjoy being outdoors and attending these fun events, but do we think about how they can affect our hearing and the importance of protecting our ears? In summer, we protect ourselves from the sun using sunscreen and hats, but we should also be protecting our ears from loud noise and events. OSHA requires the use of hearing protection when sound levels exceed 85 dB in the workplace. Let's explore some of these fun summer events and see how loud they can become.

## PROTECT YOUR EARS

The Sounds of Summer can be louder than considered safe for our ear; if you take the proper precautions there is no need to worry. There are different types of hearing protection that are available to protect our hearing from the Sounds of Summer.

**Non-Custom** foam plugs and noise canceling headphones are easily accessible and can be used for most of these events.



**Custom** products are available and can be made specifically for some of these activities. Musician plugs are great to use at outdoor concerts and festivals and can also be used for baseball



games. They allow the music and sound to come through clearly but have a filter that reduces the level of loudness. There are also custom plugs for use when riding motorcycles that will protect from the wind noise, but will still allow road noise, sirens, and honking cars through for safety. If you are interested in purchasing a set of custom hearing protection, contact your audiologist.

Have a fun and safe summer and please keep in mind the importance of protecting your hearing during these summertime activities.