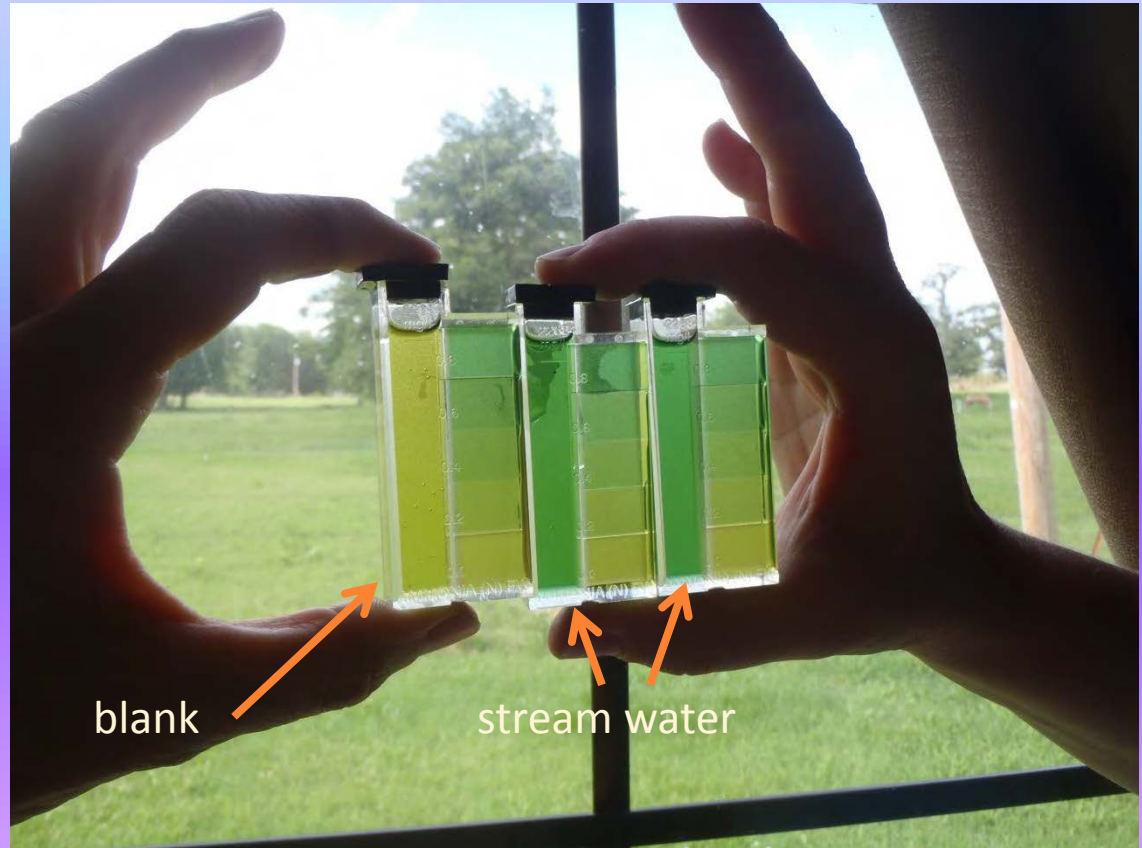


Why Volunteers?







Blue Thumb Volunteers

- ☐ Test water
- ☐ Collect benthic macroinvertebrates
- ☐ Collect fish
- ☐ Assess habitat
- ☐ Educate the public about reducing pollution



**There is science. There are scientists.
Most of the people are not scientists.**

Scientists and engineers
< 5% of workforce

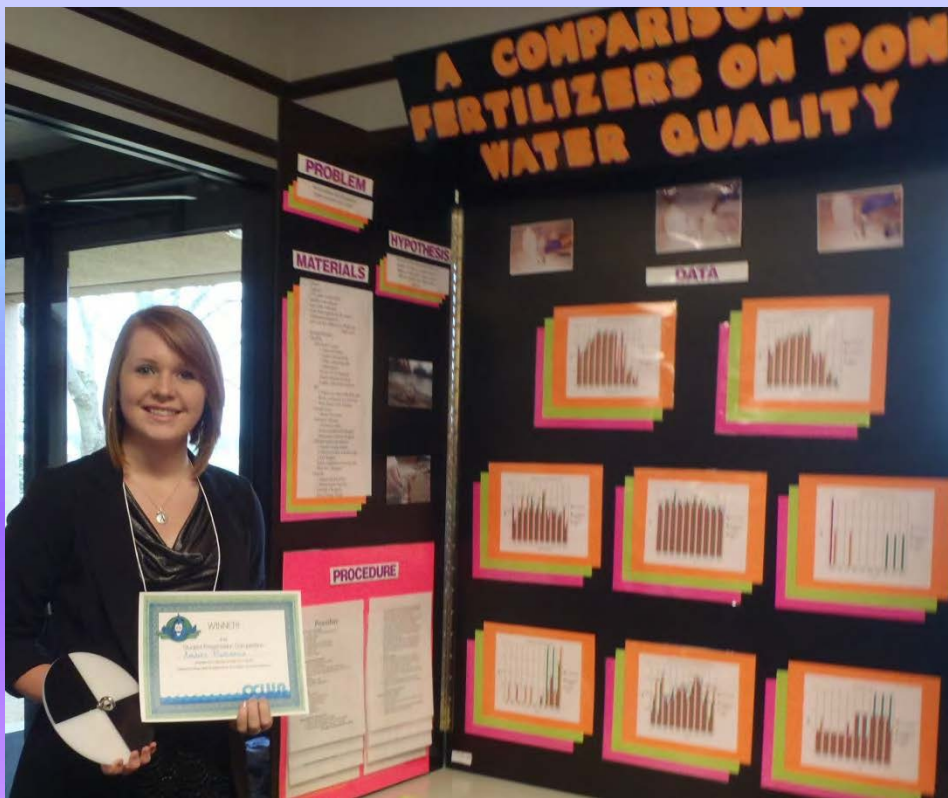




The point is:

People understanding their environmental is important. Often people do not understand their environment and probably do not realize it is important to understand their environment.





Scientific Community



The rest of us





Blue Thumb:
Some volunteers are
scientists.
ALL volunteers do science.









Narrowing the Gap!!!

Stream Protection through Education

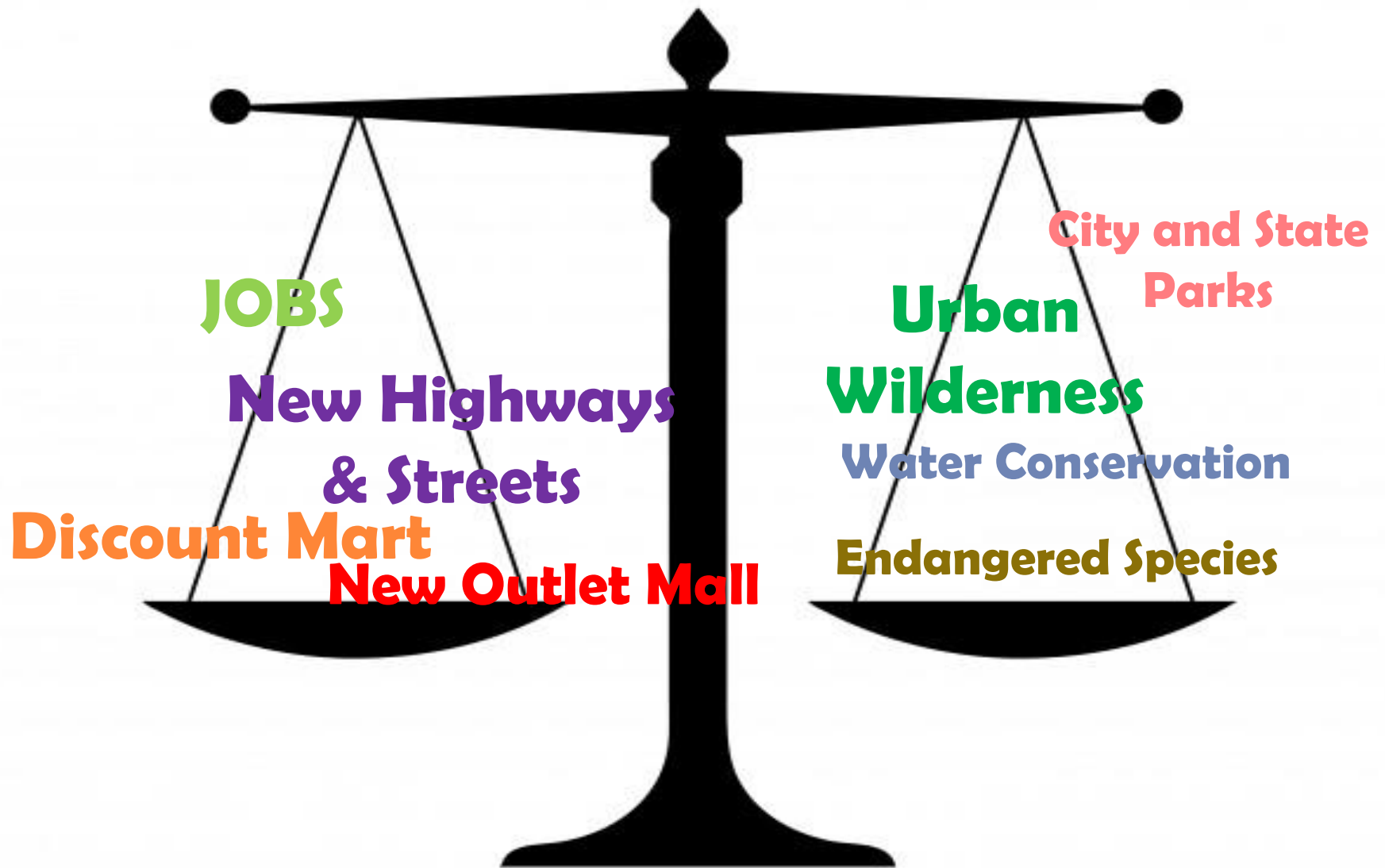





Volunteers bring “caring” to the general citizenry.
Volunteers provide role models.
Volunteers promote conservation to an **important**
slice of the population pie.



**Conservation activities are part of
being a good citizen.**



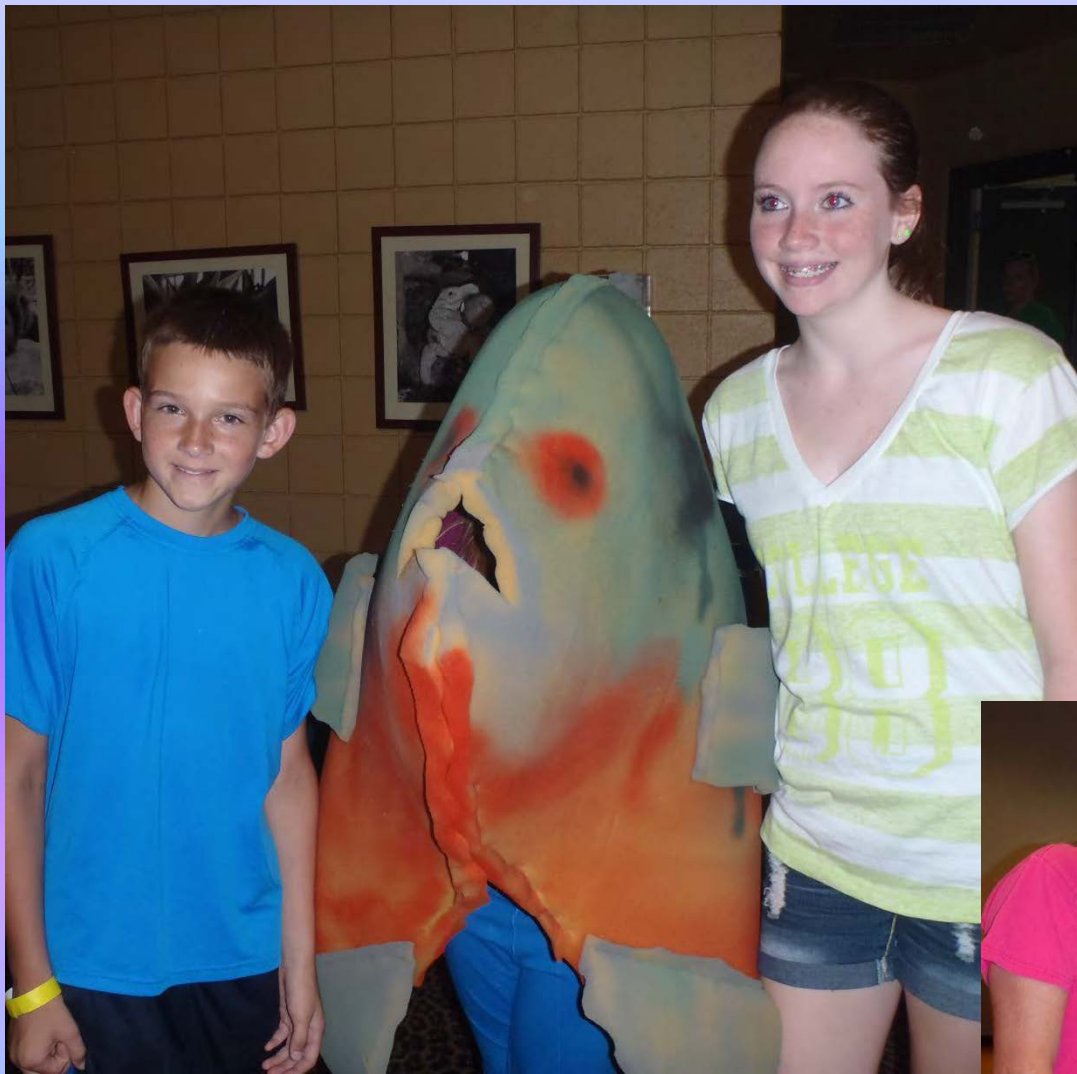


**If these people will stop
and think about
endangered species,
where their water
comes from, the value
of green space etc....**

**If these people will stop
and think about the
need for a viable
economy, how the bulk
of people in their
community earn their
paychecks, etc...**









**Narrow the Gap –
The average person becomes informed.**





**Your drinking water comes
from someplace.**



**Streams and Rivers
become Drinking
Water!**





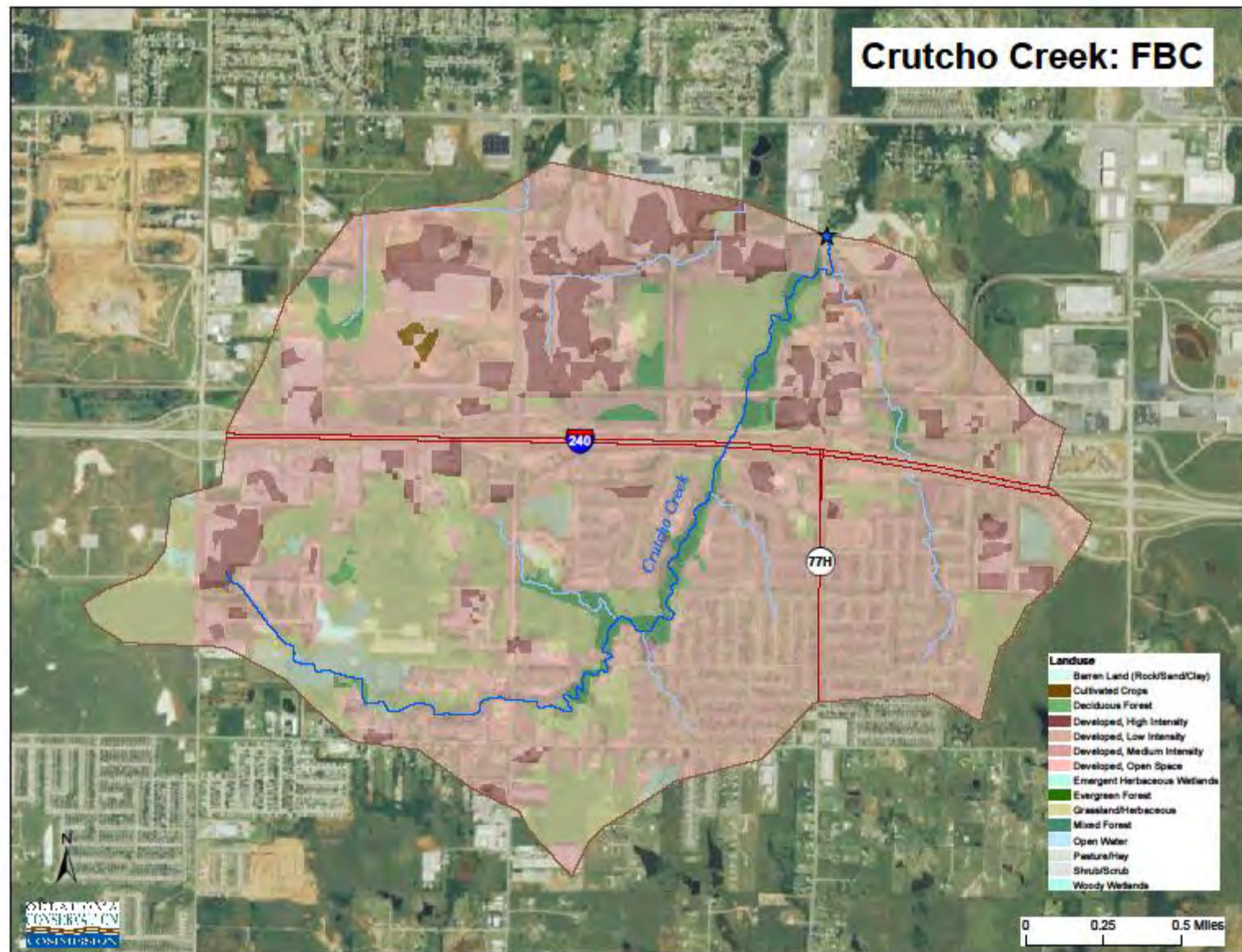
**Streams and Rivers
become Drinking
Water!**
(volume 2)

Streams are a product of their watershed.

Fertilizers, pesticides, dog poop, sediment, and other pollutants can flow into a storm drain and then into the stream.

Nothing happens to CLEAN this water.





Watershed is an area of land that...



**Volunteers bring
information to their
friends, neighbors, family.**









Volunteers are at the HEART of a campaign for clean water.

It is all connected.

**Volunteers are at the HEART of cultural changes that are good
for the environment.**

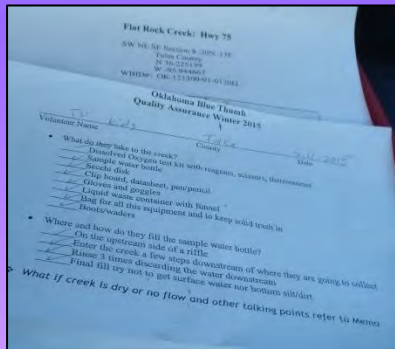
Real Science Data Environmental Issues



Happy-go-lucky Public



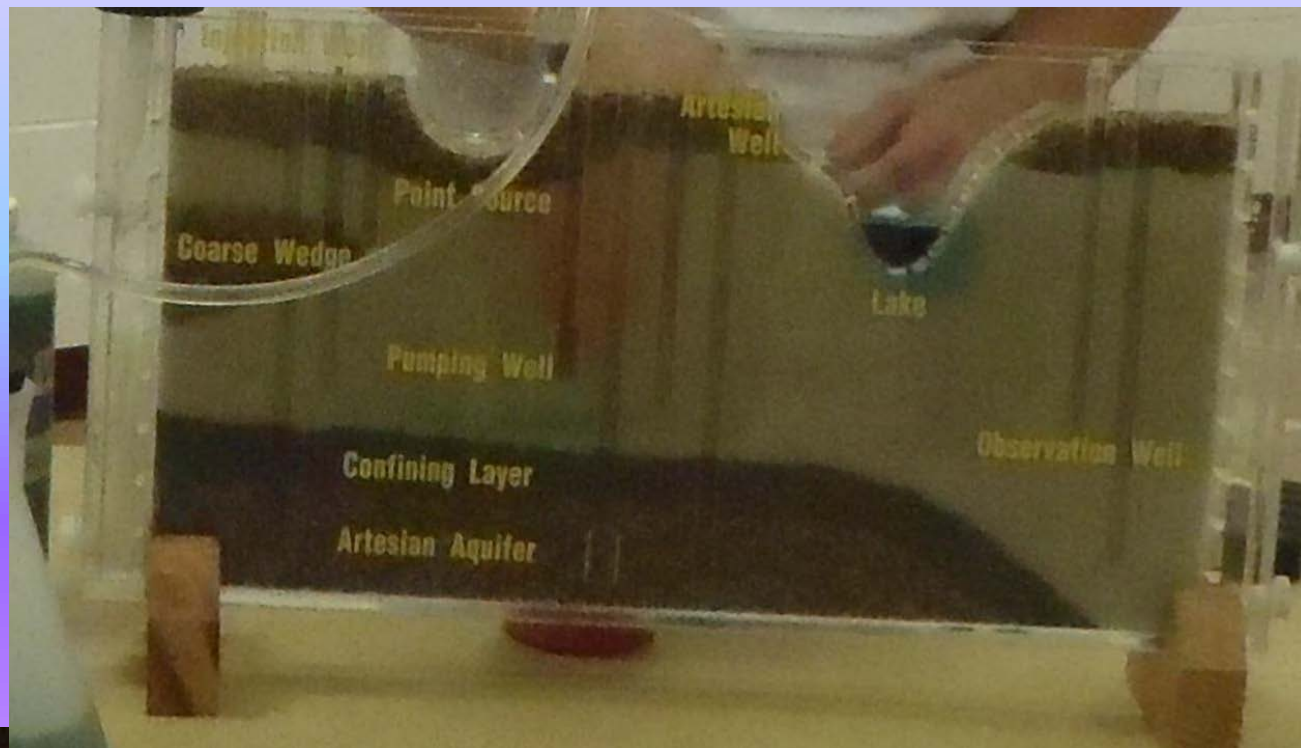
Something important in-between





Conversations





Drought



WWW.TULSAWORLD.COM
WEDNESDAY
 MARCH 18, 2015

TULSA WORLD

SERVING NORTHEAST OKLAHOMA SINCE 1905

Turkey Mountain mall opposed

▪ Most at meeting object to changing the Turkey Mountain landscape.

BY KEVIN CANFIELD
 World Staff Writer

City Councilor Jeannie Cue began Tuesday night's public meeting on a proposed outlet mall by saying she thinks the developer of the project doesn't realize how important the Turkey Mountain wilderness area is to Tulsans.

Get more information
 Read a letter from the YMCA of Greater Tulsa to the developers of the proposed Tulsa Premium Outlets with the online version of this story.
tulsaworld.com

Now they do.
 About 200 people filled a ballroom at the Marriott Tulsa Hotel Southern Hills, with most of the

SEE TURKEY A8



An artist's rendering shows what a Turkey Mountain trail might look like if Tulsa Premium Outlets is built.
 Courtesy

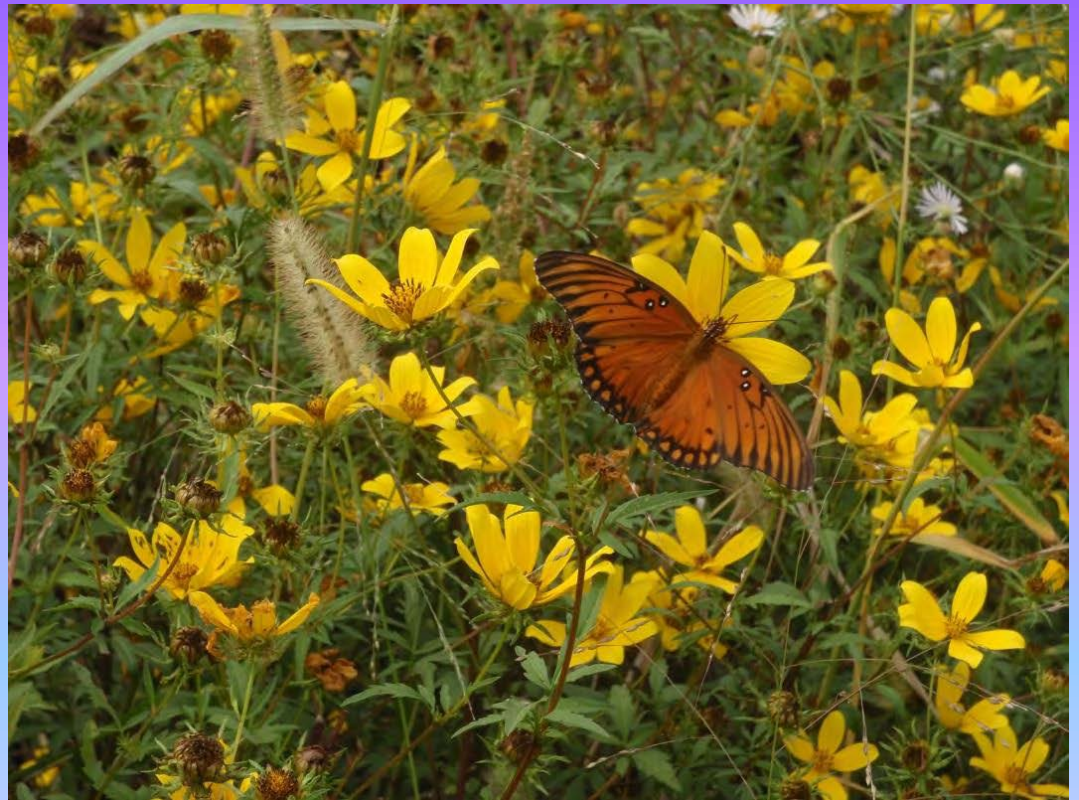
Loss of woodland and prairie





**Climate
Change**

Songbirds
Pollinators
Native plants









**What is your
role?**

**The time is
NOW**



**Take a child
outside!**







A photograph of a rural landscape. In the foreground, there is a grassy hill with a stream bed visible. A wire fence runs across the middle ground. In the background, there are several farm buildings, including a large white barn with a red section and a smaller white house. Bare trees are scattered around the buildings. The sky is overcast.

Stream begins here, as the hill slopes down.



Under the street and
down a concrete chute.





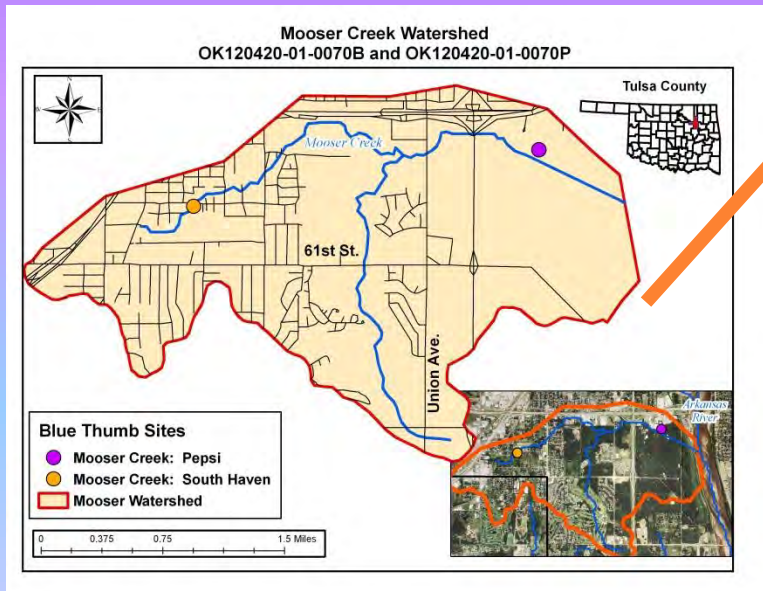
Under the highway into meadow where it
begins to have look of a stream.





Into a pond that is highly manicured with homes around it.

Common sense about the outdoors is not all that common.





People need a little help
understanding the natural
world.





Changes taking place in the watershed
change the stream or river.



**More impervious surface + less riparian area + areas like lawns
with shallow roots + water flushing into streams at high rates =
eroding, unstable banks and entrenched streams**

Field left fallow one year

traditional plowing, no crop

well managed pasture

no-till pasture

undisturbed prairie

