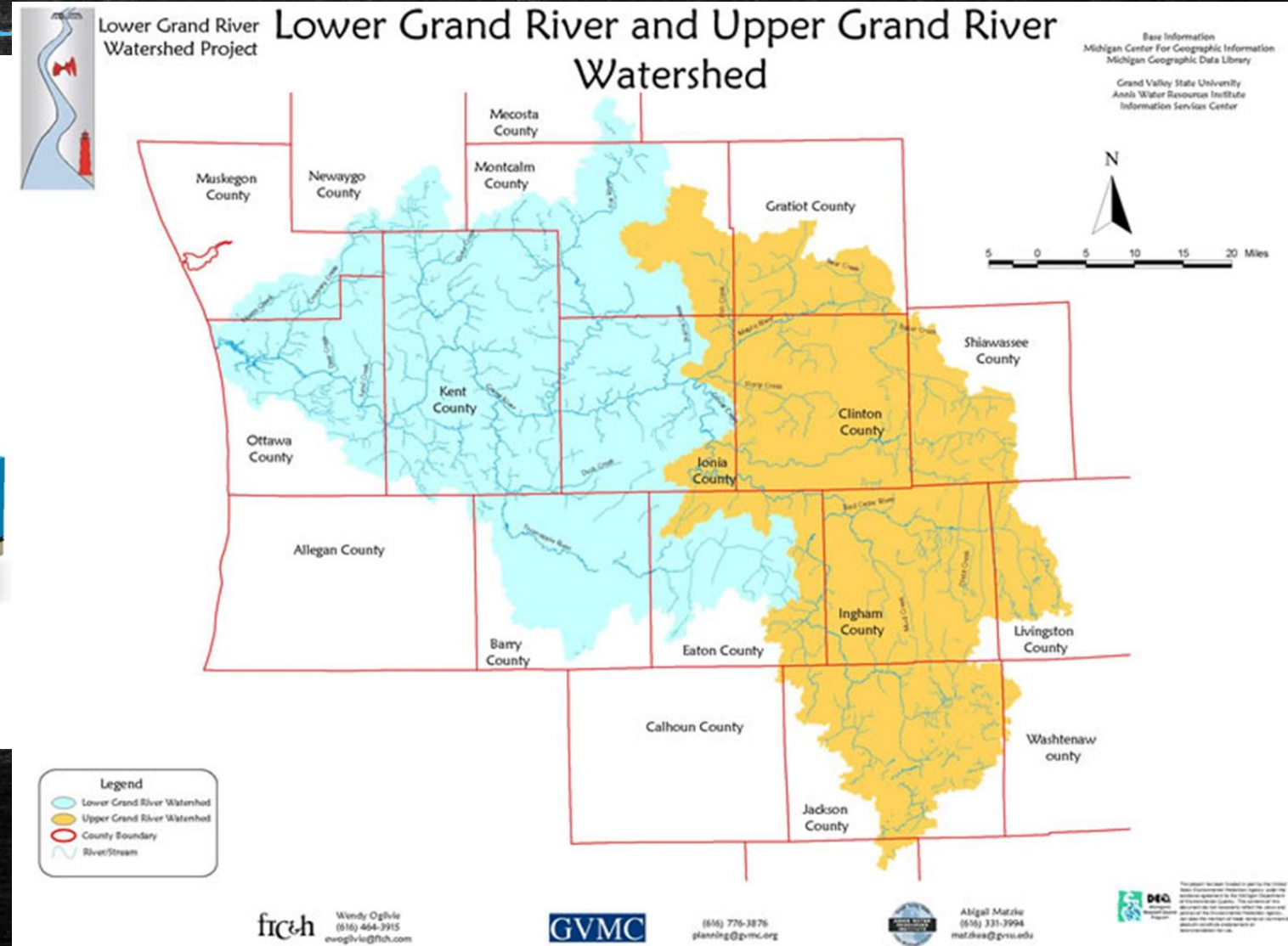
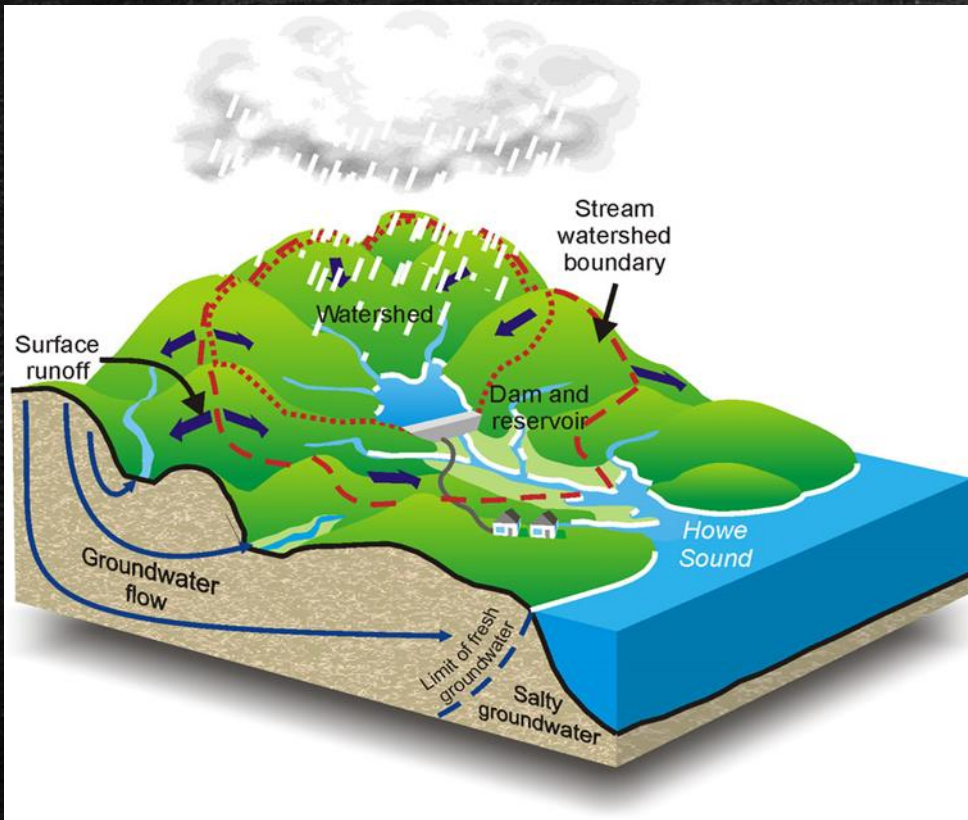


watershed quiz

February 4, 2016 Groundswell Teacher PD Day

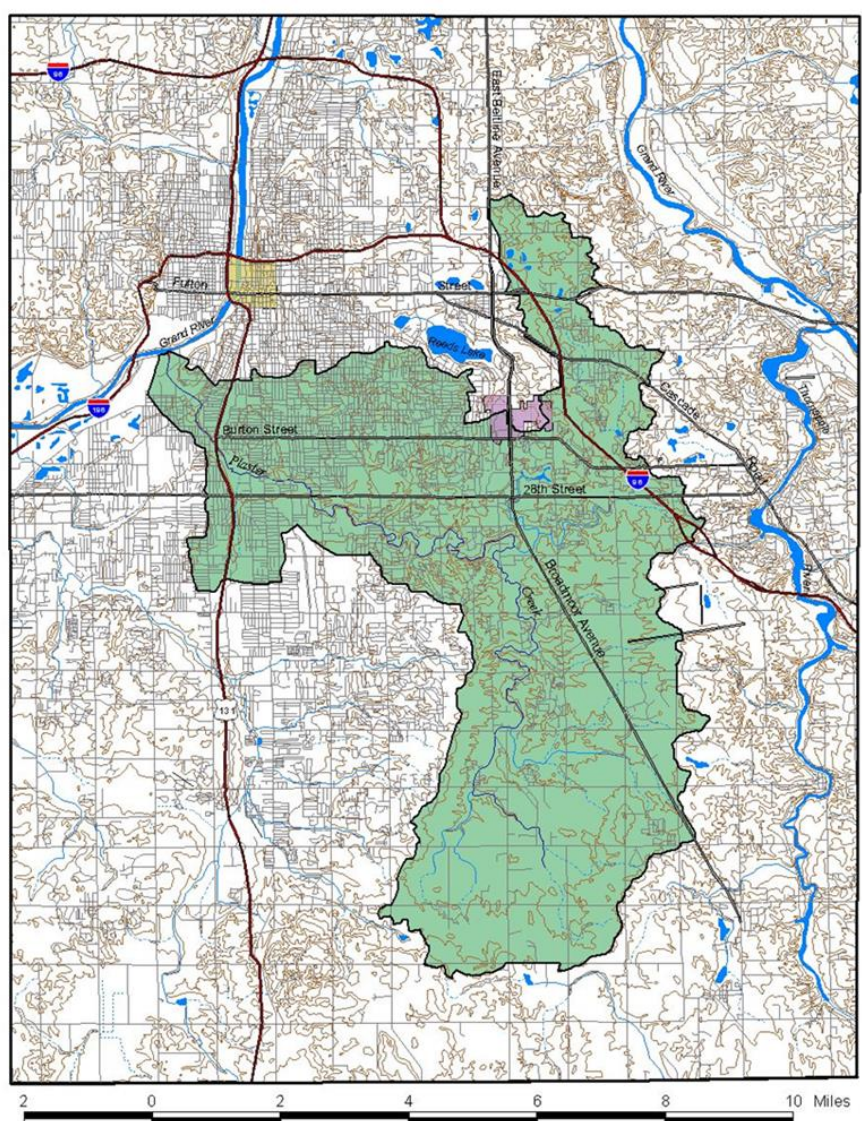
1. What is a watershed? Name two watersheds you live in.



2. What is the translations of Plaster Creek's Native American name?

- a. Water of the Sparkling Rock
- b. Water of the Walleye **Kee-No-Shay**
- c. Water of the Clouds

How big in square miles is the Plaster Creek Watershed?



Basic statistics:

Stream Length: ~ 14 miles

Watershed area: 58 mi²

Historic land cover: forest

Present land cover: urban
commercial & residential,
rural residential &
agricultural

If you took a sample of water from Plaster Creek, what would you find in it (besides water)? (3 things and their source.)



Main Issues:

Flow Dynamics

Sediment

Bacterial Contamination

Thermal Pollutions

Trash and Toxins



Choose the correct “Impaired Designated Uses” and their causes:

Designated Uses

- a) Agriculture
- b) Body Contact
- c) Aquatic Biodiversity
- d) Swimming
- e) Fishing
- f) Water sports

Pollutants:

- a) Heavy metals
- b) *E. coli* bacteria
- c) Parasitic aquatic worms
- d) Hydrocarbons
- e) Sediment
- f) Prescriptions medication contamination



How many gallons of water a day does a mature tree “drink”?



30-100 gallons/day

If I pull out a plant in a prairie and a plant in a wetland, which one will have longer roots and why?



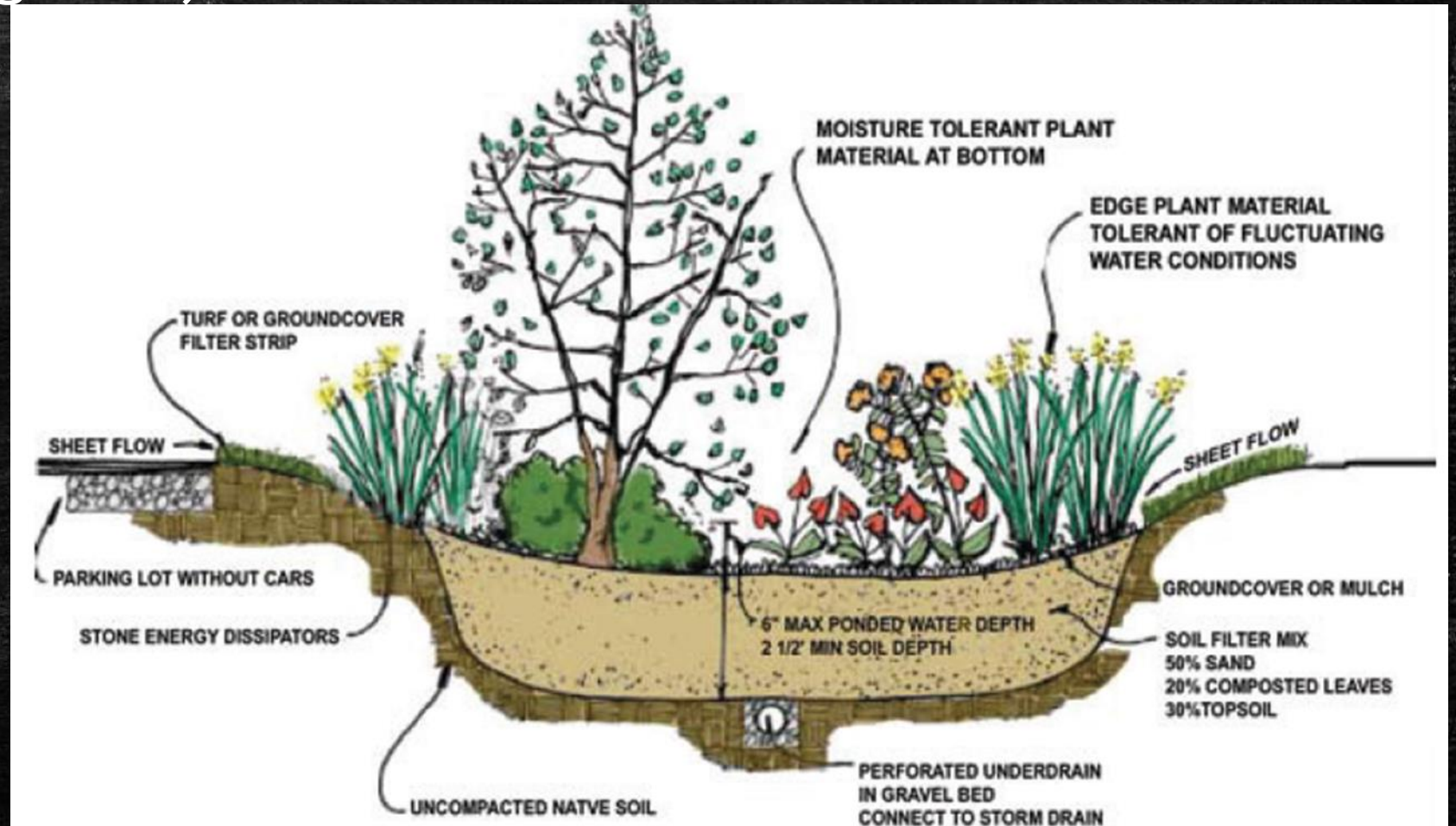
The bulk of the wood's dry-weight can be linked to one source: which one?

Soil
Water
Sunlight
Air



If I'm designing a rain garden that will "drain" a parking lot, how big should the rain garden be relative the parking lot?
(give a % where 100% = the size the area of the parking lot)

20-25%

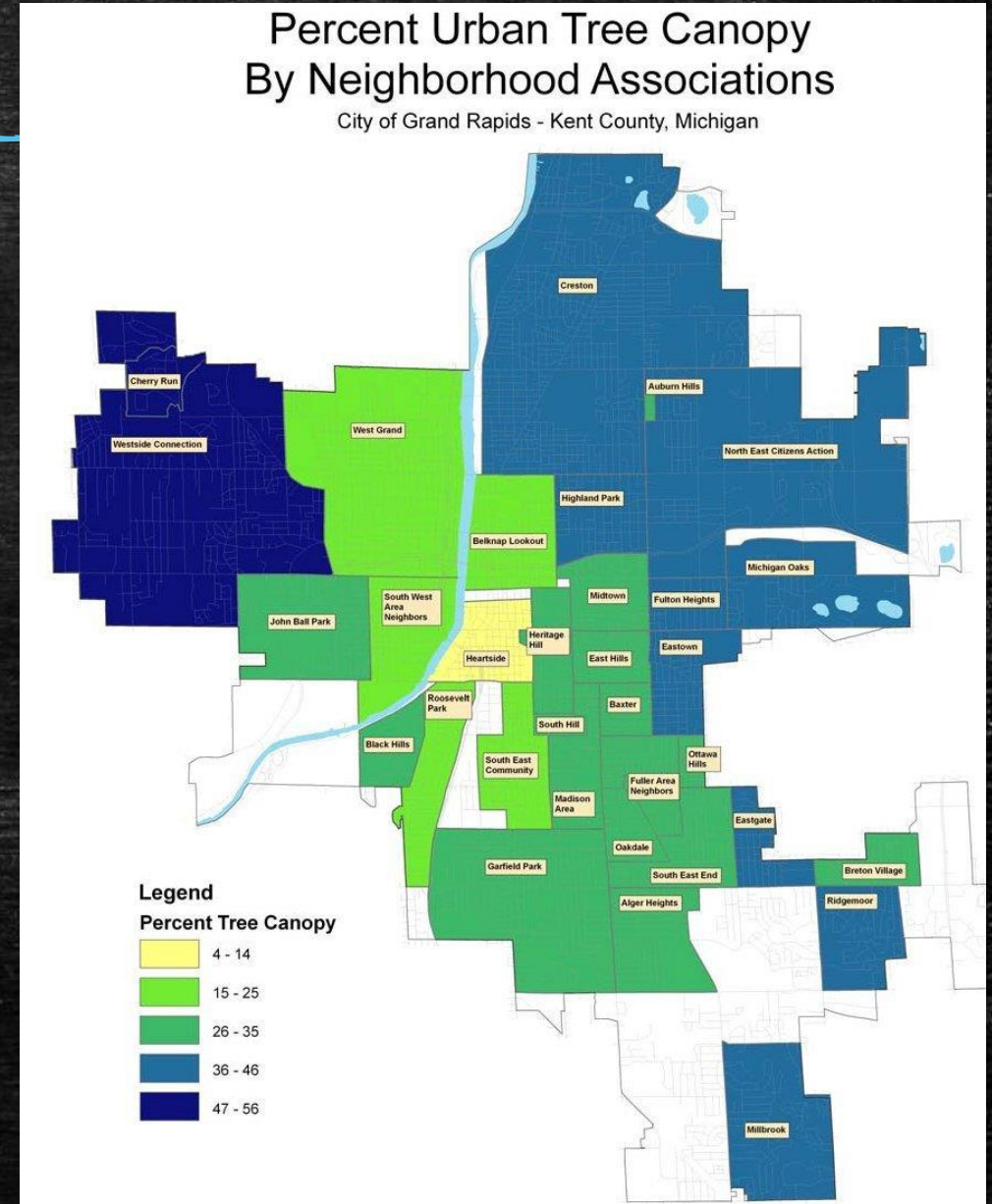


What other factors might go into the sizing, design, and layout of the rain garden?

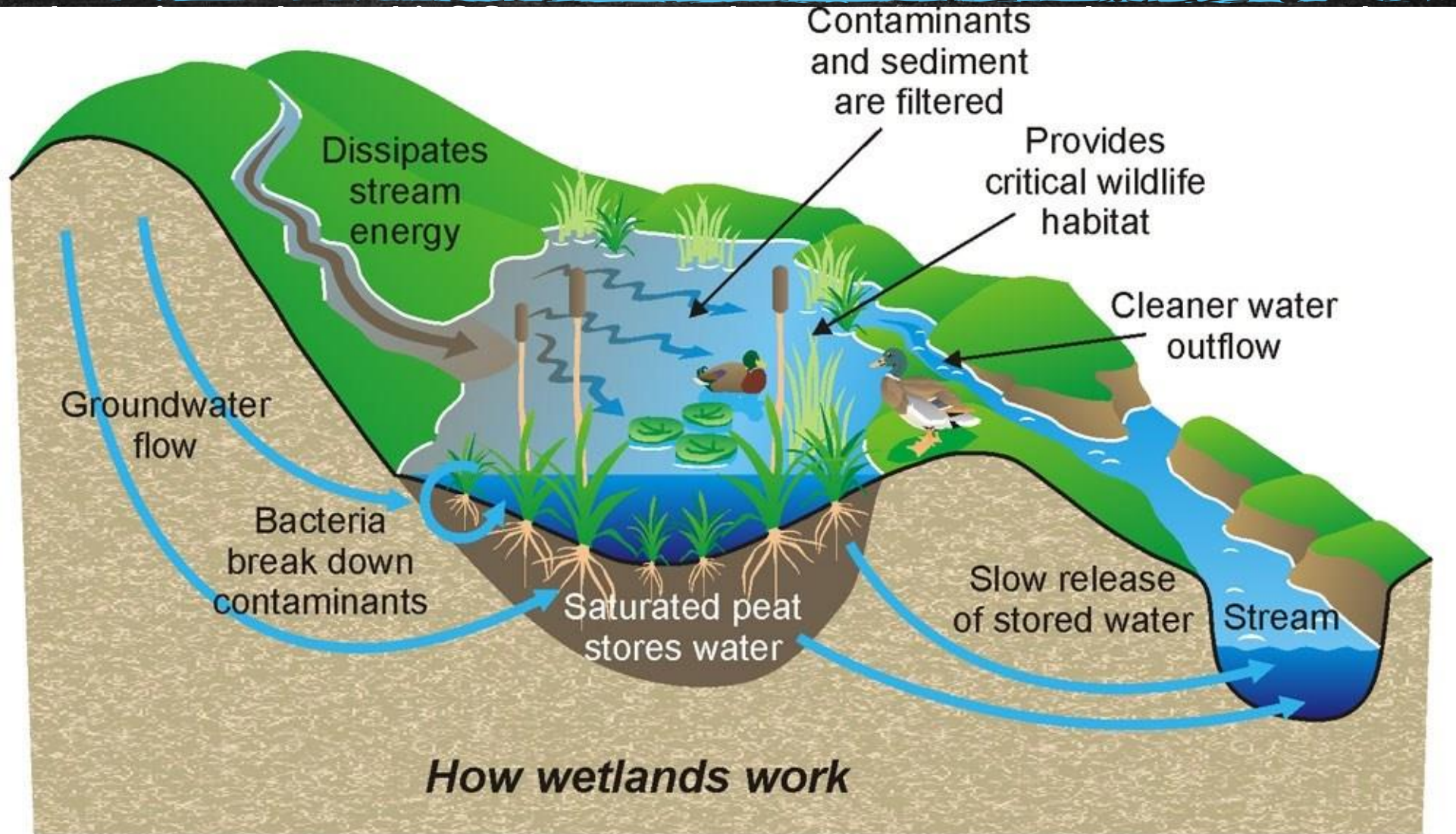
What % of Grand Rapids is covered by tree canopy?



35-36%



There are all different types of wetlands that interact with their watersheds in a variety of ways.



What's an ephemeral wetland? (hint: spring wildflowers are also called spring ephemerals...)



What is the difference between source and non-point source pollution?



How many lbs/year of sediment flows through Plaster Creek each year? (closest 3 teams to the actual number get credit!)



360,000 lbs/yr

Bonus Points:

Like us on Facebook: www.facebook.com/PlasterCreekStewards



Research, Education,
Hands-on Restoration