Johnson Creek Watershed Council Beaver Survey – Gresham Dam Results Year 2016-2017

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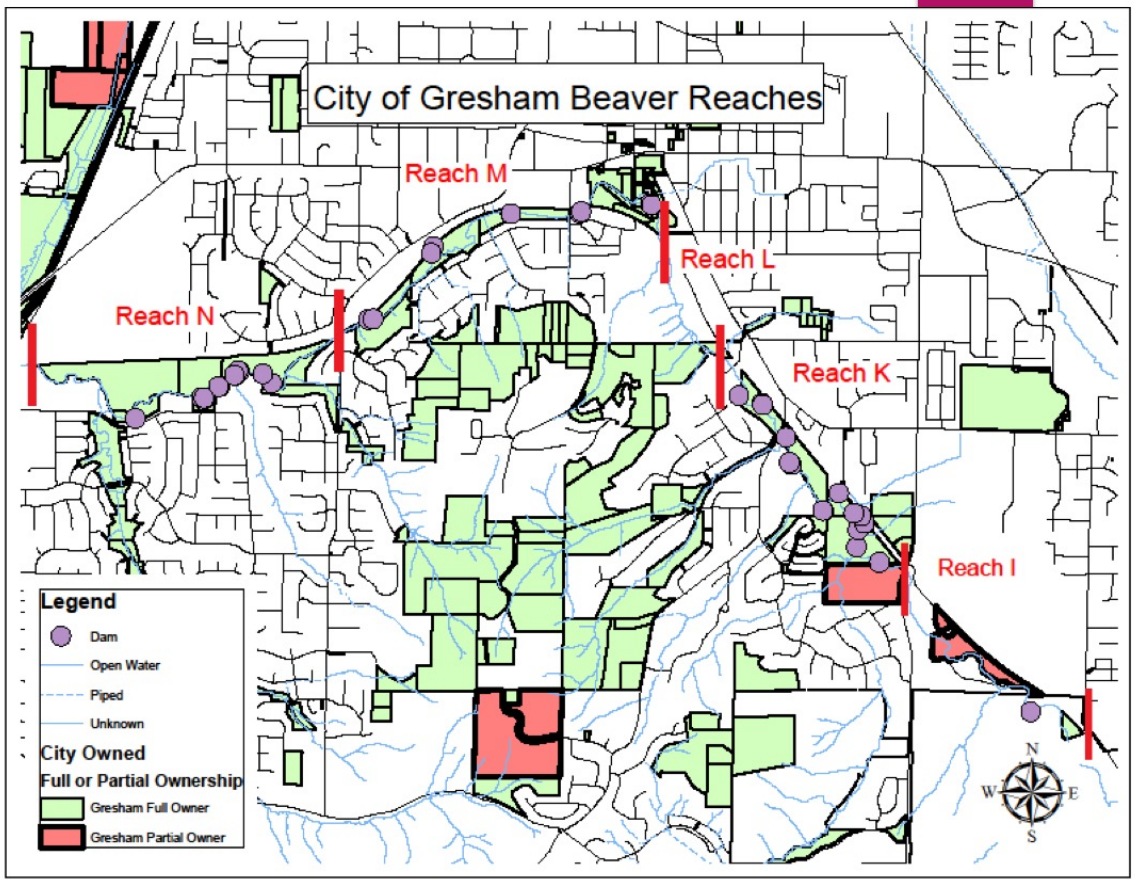
GRAPHICS – JESSE SEALS AND MARY O'DELL

PRESENTER – MIKE WALLACE

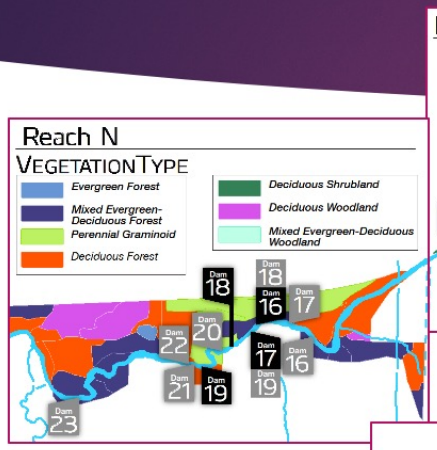
Methods

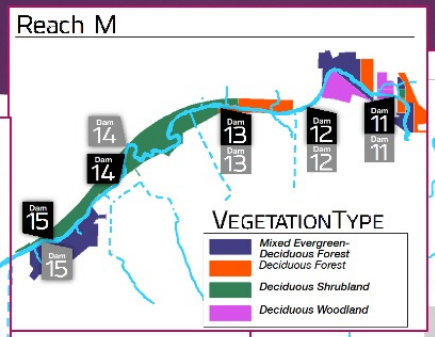
- JCWC consulted with Metro (Kate Holleran) on developing the volunteer based survey
- Surveys were completed in predefined reaches. A total of 13 reaches were surveyed.
  - Reaches were selected based on likelihood of finding beaver activity
  - Surveys were done by completing stream walks in late August and September
  - Surveys completed in the City of Gresham were performed by both Citizen Volunteers and AmeriCorps Volunteers working at the City.
- Volunteer's collected data related to beaver activity
  - Dams, lodges, bank dens, mud slides, canals, chews, and scent mounds
    - Specific to dams –
      - % composition (wood, mud, gravel) of dam – species of plants were collected in 2016
      - was it active, intact, and approximate water stacking

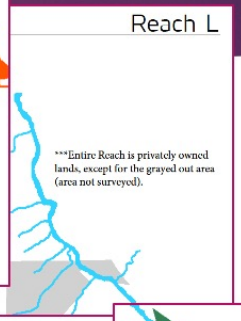
Reach Map within Gresham

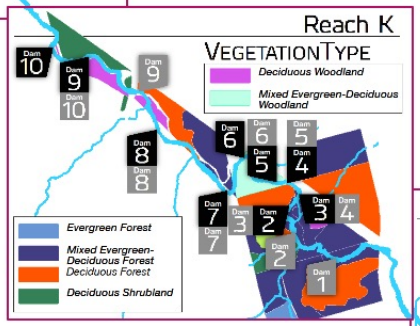


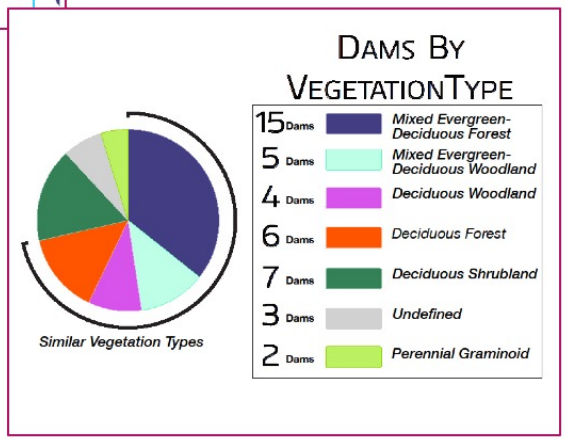
Those DAM Results – Year 2016-2017
Dams and Vegetation Type

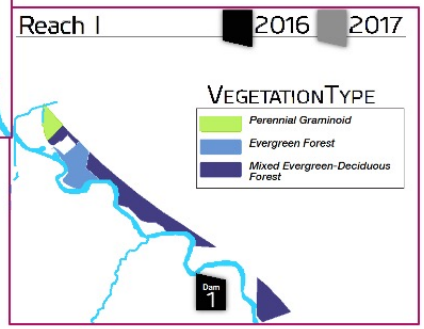




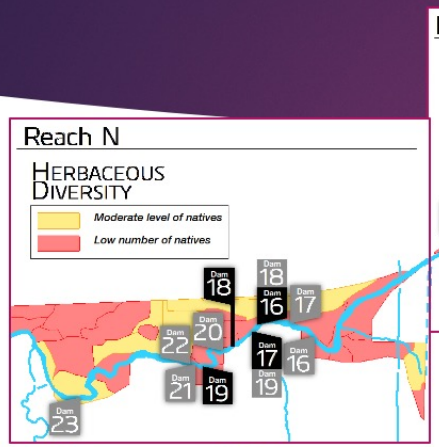


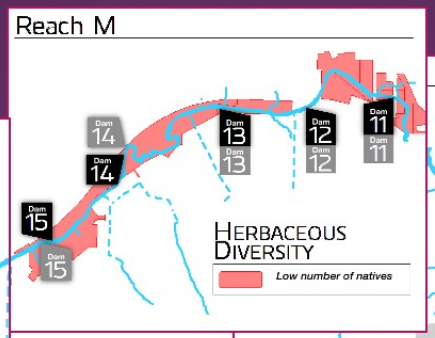


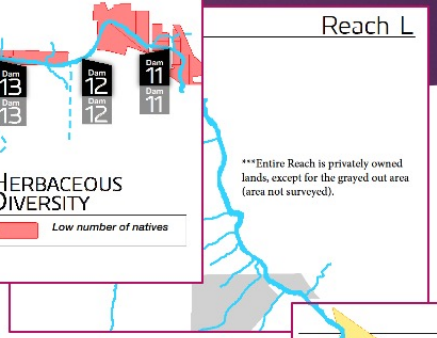


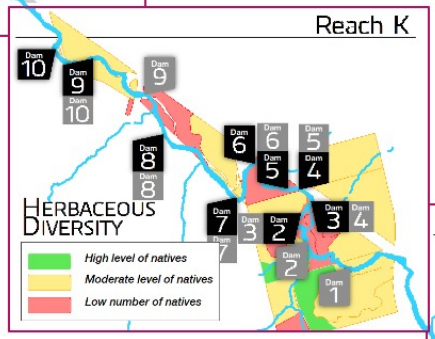


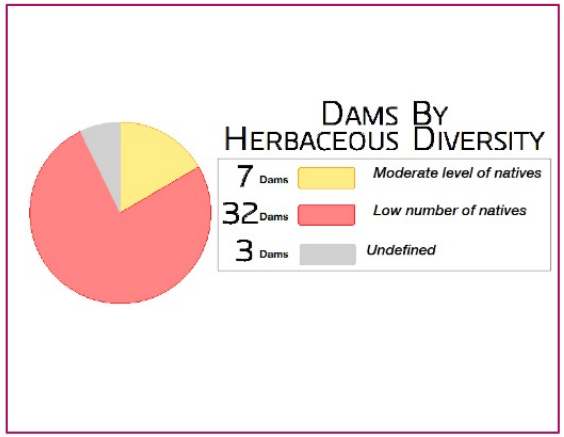
Those DAM Results – Year 2016-2017
Dams and Herbaceous Diversity

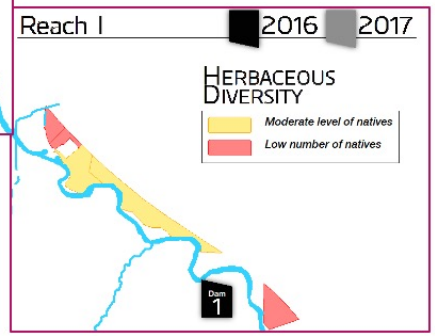




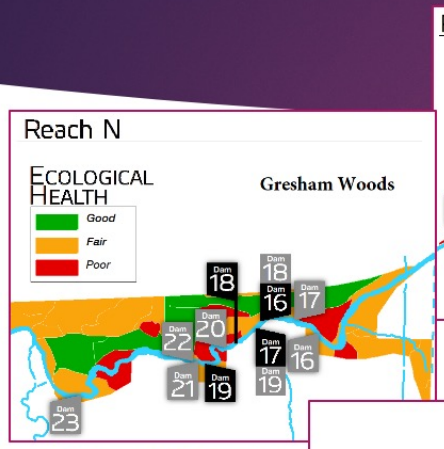


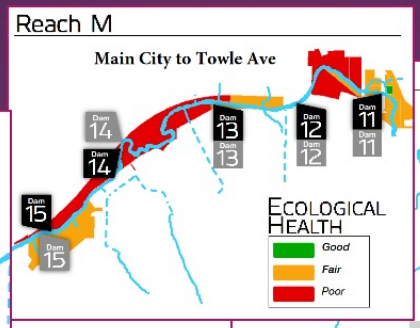


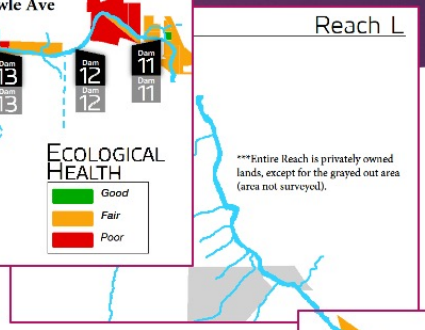


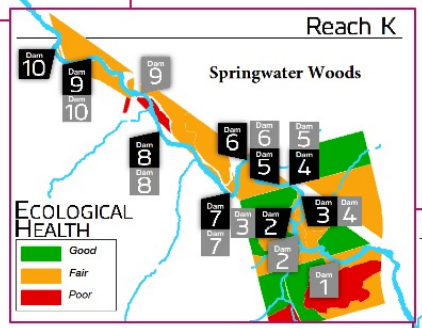


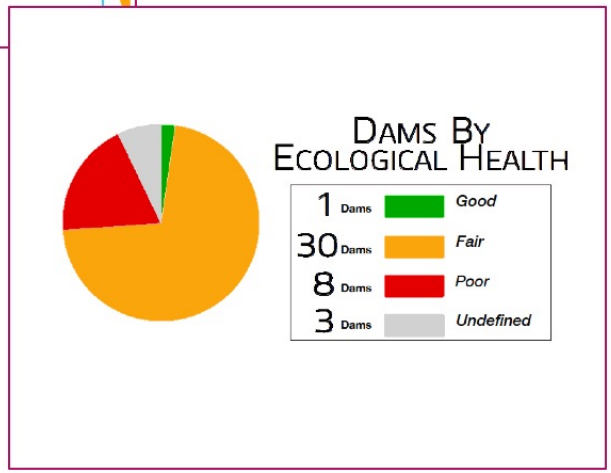
Those DAM Results – Year 2016-2017
Dams and Eco-Health

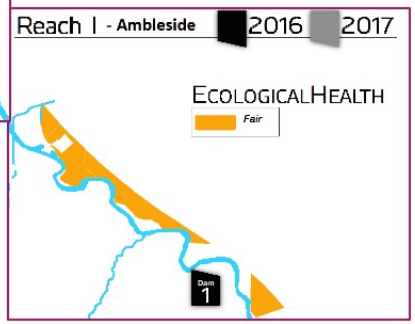












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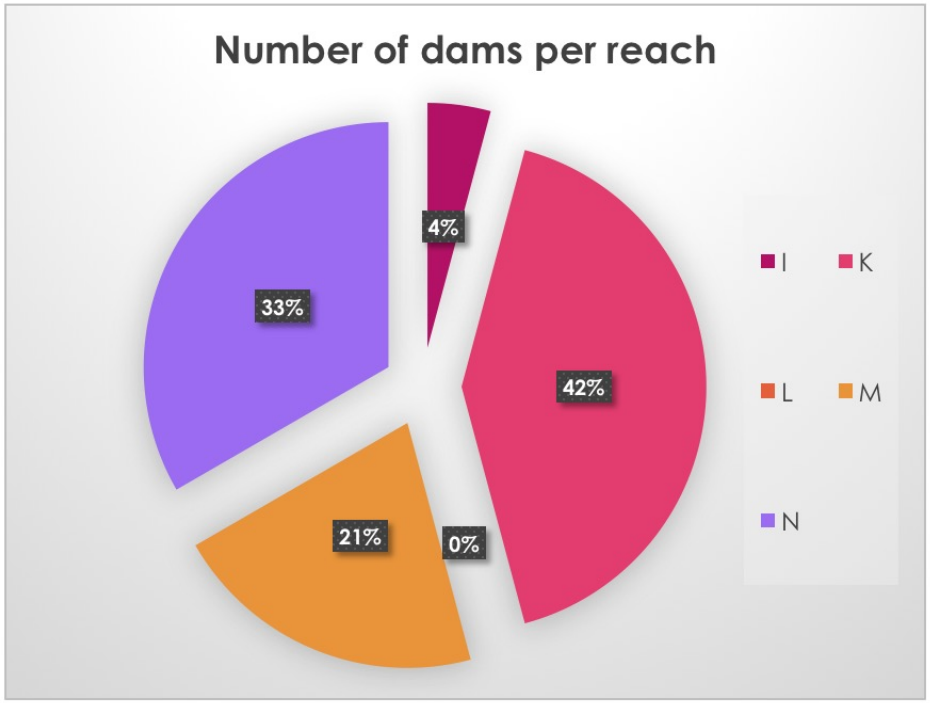
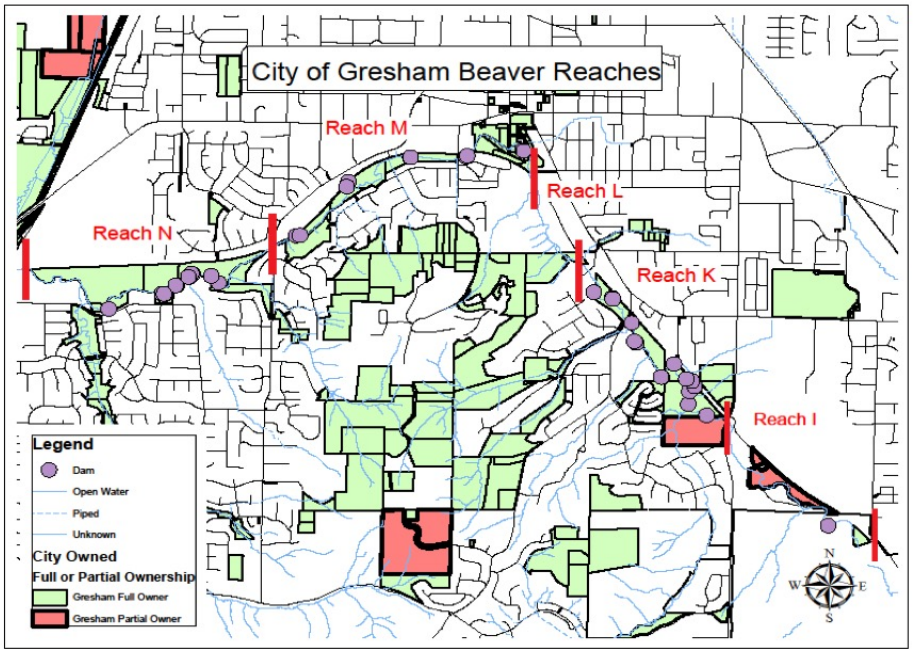


- 75% of Dams occurred in reaches N and K
- N and K are predominantly public lands (96%) and in fair Eco Health.

Dams – Public vs. Private

- 97%/3% public/private dams (41/42)
- 80%/20% public/private miles (3.5mi/0.9mi)



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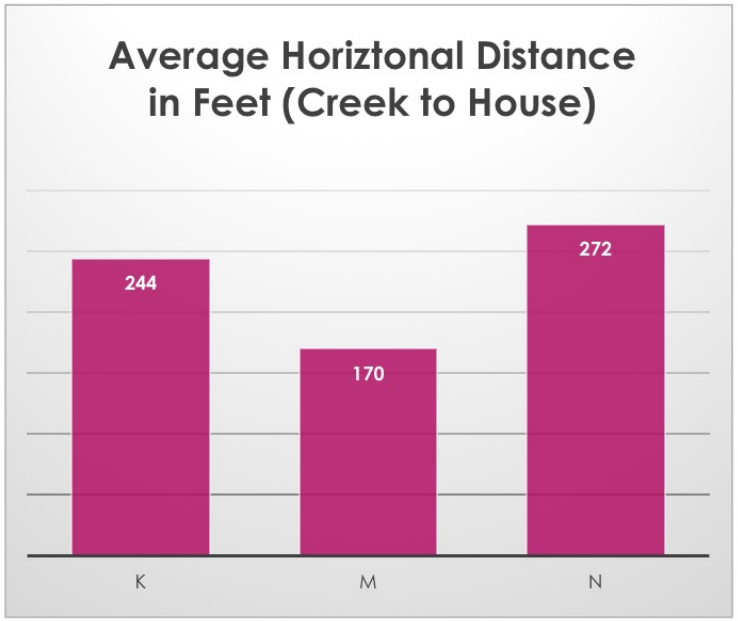
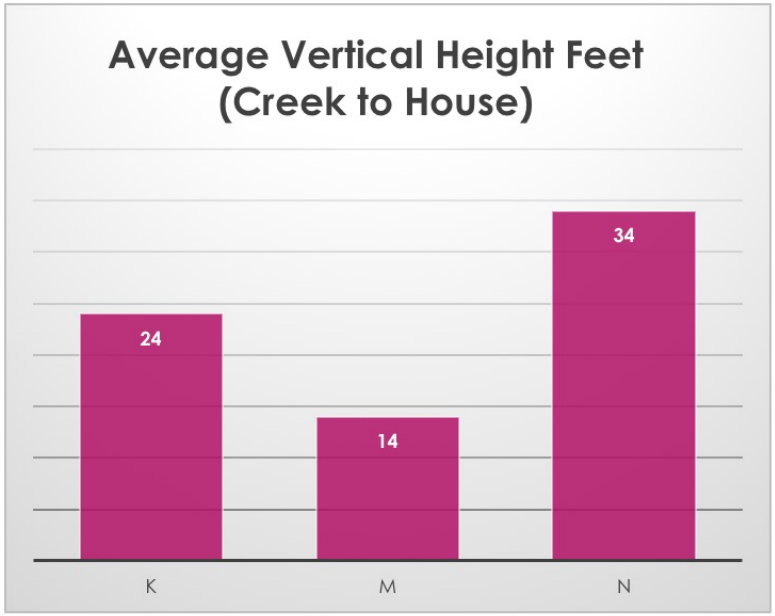


- Average distance private – 102 feet



- Average vertical height private – 12 feet

Dam Trends (needing further statistical analysis)

- Preference to areas where residential housing is >200 feet in horizontal feet and >20 feet in vertical height.
  - Beaver work at night and impacted by nighttime disturbance.
- Preference to fair Eco Health condition with shrub and tree vegetation type. Veg type is typically deciduous to mixed forest.
- Areas of poor Eco Health (predominantly monoculture of Himalayan blackberry) had minimal use (19%).
  - 74% of Dams in fair to good Eco Health.

Other Species Seen on Surveys