

CORTES_ProjectTopic.Rmd

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General topic of interest in relation to the Oregon Bee Atlas data (e.g., patterns of diversity, bee diets, sampling bias)

I would want to pursue a topic surrounding bee diversity in different habitats like Coastal regions vs inland or comparing forests, grasslands/plains, and urban environments.

Another Idea I had was to see how invasive plant species affect bee population and richness compared to non-invasive plant species.

Potential questions within that topic area

- 1.a What habitats foster a better environment to allow a wide variety of species to thrive?
- 2.a Do invasive plant species harm bee populations, if so what species of bee are most affected by this?
- 2.b What invasive plant species cause the most harm to bee diversity?

Potential additional datasets within that topic area (e.g., specify relevant government databases, academic data repositories, etc)

Oregon Bee Atlas: Has data on bee populations, along with metadata surrounding location and plants nearby.

iNaturalist Database: Full of bee and plant sightings that could complement observations from the OBA data.

USDA Plant Hardiness Zone Maps: This could be used to understand the climatic conditions in different regions of Oregon (coastal vs. inland).

Oregon Spatial Data Library: Good data on land cover, elevation, and habitat types (forests, grasslands, urban environments).

Global Biodiversity Information Facility: To get additional records on species distributions of Oregon-specific pollinators.

NOAA Climate Data: To examine climate variables like temperature and precipitation in different regions. Useful to compare coastal to inland.

Land Use and Cover Data: Also good for land cover in coastal, forest, grassland, and urban areas.

USDA PLANTS Database: Has data on invasive plant species

Oregon Invasive Species Council: Provides detailed data on invasive species in the state.

Calflora Database: More data on invasive and non-invasive plant species across the western United States.

Oregon State University Extension:

The name of your partner (if undergrads)

I don't have a partner at the moment.