

LAND, WATER, AND WINGS

Westport River Watershed Land Cover Analysis

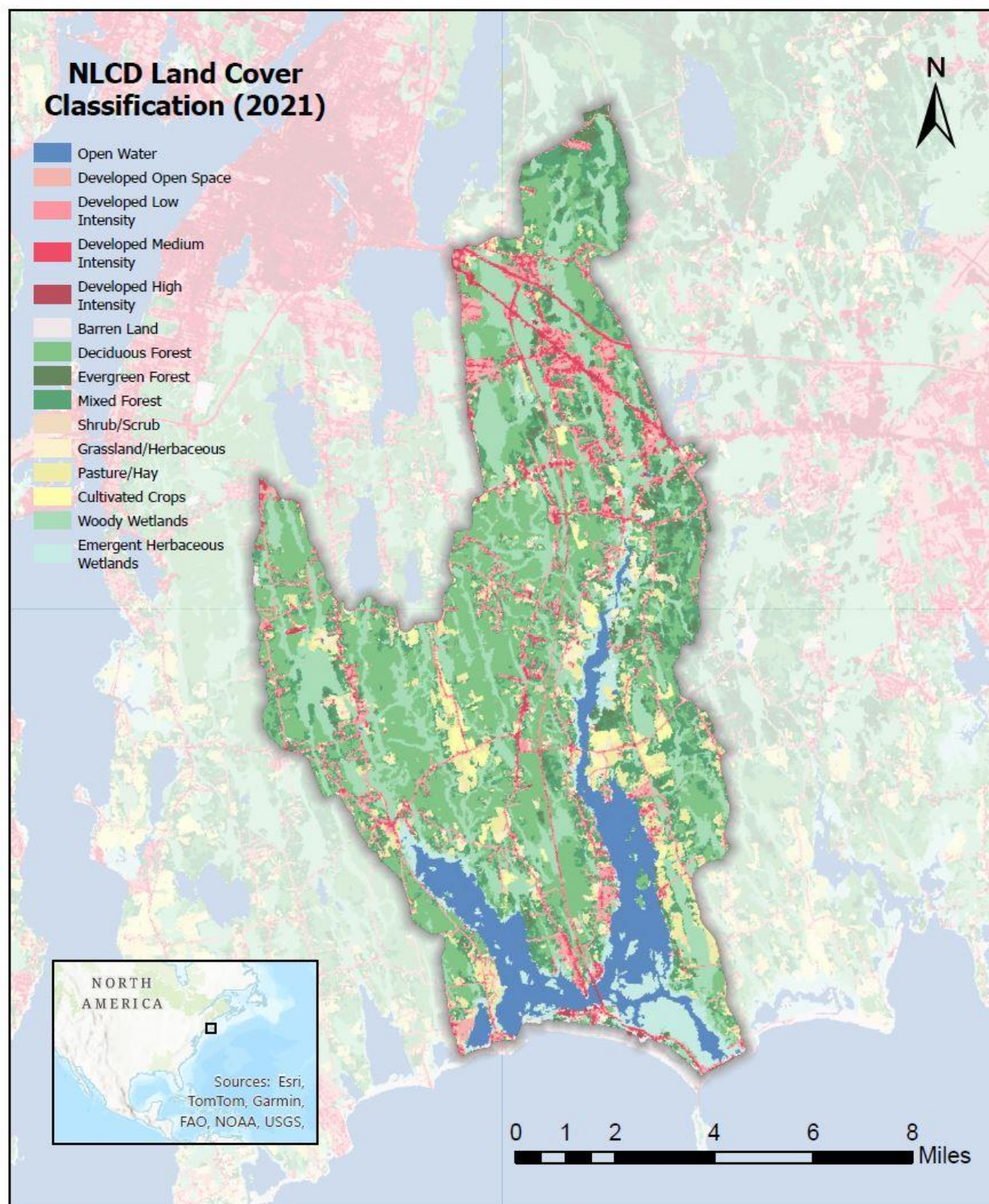
Alyssa Pacheco | Spring 2025

Westport River Watershed Land Cover Project Overview



- 📍 Study area: Westport River watershed, MA
- 🗺️ Land cover data: 2021 NLCD dataset
- 📊 Area (m²) and land cover percentages calculated
- 🏠 Map, pie chart, and summary table produced
- 🌿 Future focus: Habitat and endangered species

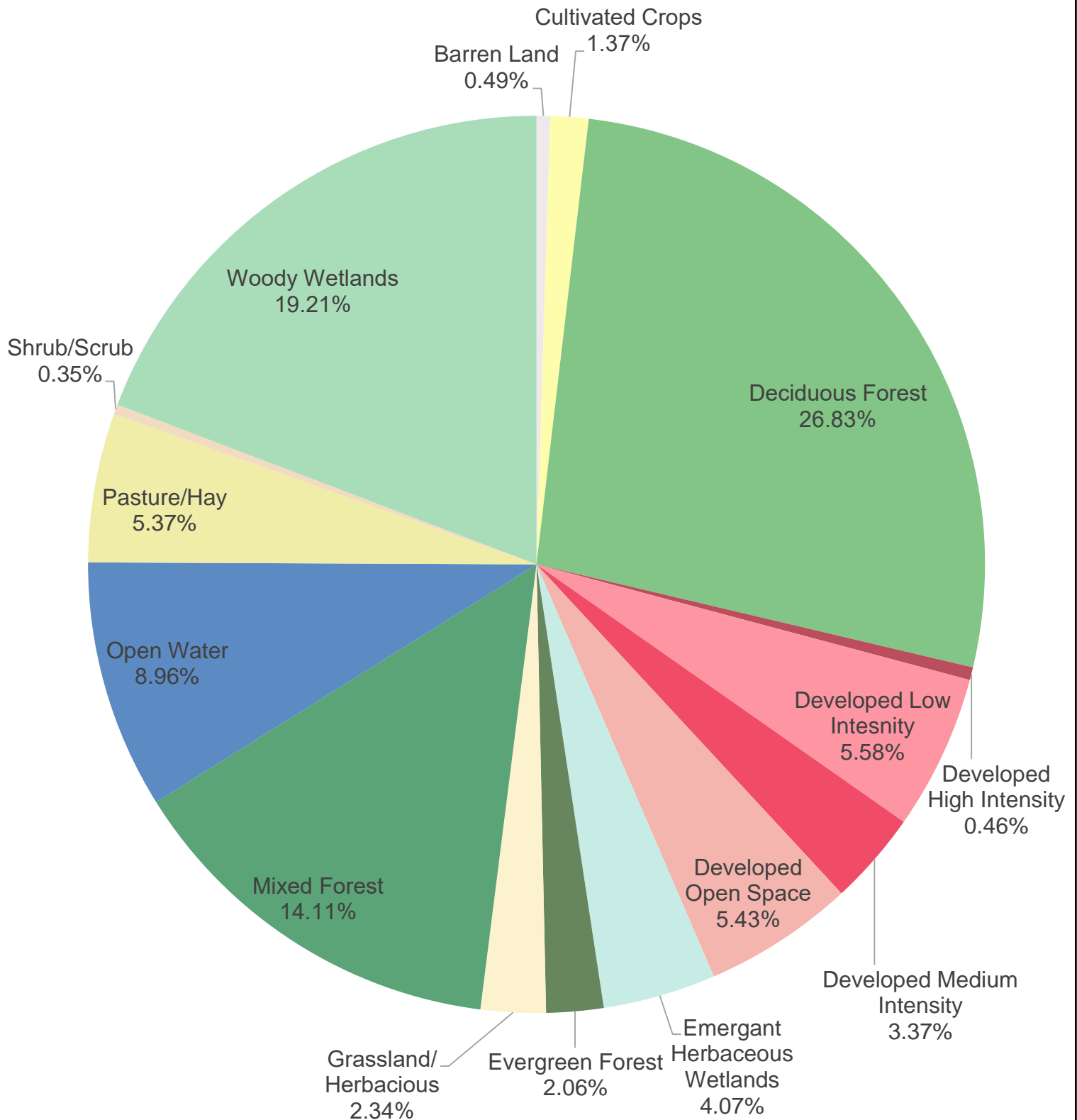
Westport River Watershed Land Cover



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Data Source:
USA NLCD Land Cover (2021) – USGS, via Esri Living Atlas
Watershed Boundary Dataset (HUC 12) – USGS, via Esri

Land Cover Composition of the Westport River Watershed (2021)



Source: USA NLCD Land Cover (2021), Esri

Land Cover Area Summary

Land Cover Class	Area (sq meters)	Percent Cover (%)
 Open Water	13,092,300	8.96%
 Developed Open Space	7,930,800	5.43%
 Developed Low Intensity	8,156,700	5.58%
 Developed Medium Intensity	4,922,100	3.37%
 Developed High Intensity	666,900	0.46%
 Barren Land	720,900	0.49%
 Deciduous Forest	39,178,800	26.83%
 Evergreen Forest	3,007,800	2.06%
 Mixed Forest	20,610,000	14.11%
 Shrub/Scrub	510,300	0.35%
 Grassland/Herbaceous	3,424,500	2.34%
 Pasture/Hay	7,841,700	5.37%
 Cultivated Crops	1,996,200	1.37%
 Woody Wetlands	28,054,800	19.21%
 Emergent Herbaceous Wetlands	5,939,100	4.07%

Source: ArcGIS Pro Export (2025)

Thank You for Exploring the Westport River Watershed

Key Achievements

- ✅ Mapped land cover types using GIS analysis and cartographic design.
- ✅ Created clear visualizations (map, pie chart, and table) for communication.
- ✅ Built a strong foundation for conservation-focused research.

Looking Ahead

- 🔍 Identify critical habitats for threatened and endangered species.
- 📊 Develop a StoryMap to enhance public understanding and engagement.

Data Sources 📖

- NLCD Land Cover (Esri Living Atlas)
- Watershed Boundary Dataset (HUC 12, Esri)

“Protecting landscapes starts with understanding them.” 🌿