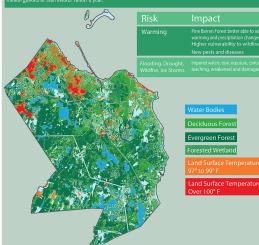
# **Plymouth**

**Natural Resources** 

Natural Resources lessen climate impacts by absorbing and storing carbon dioxide and by serving vital protective functions. Forests, open space, wetlands, rivers, and streams protect drinking water quality and quantity, provide flood control, and give relief from extreme heat. Healthy ecoxystems are more resistant to stresses from a changing climate and better able to protect against heat and flooding.

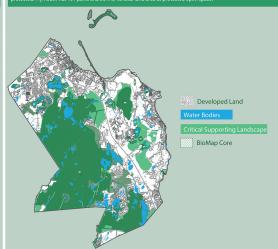
#### Trees

Trees are important in mitigating the impact of extreme heat. Tree shaded surfaces can be 25-40 degrees cooler than peak temperatures of unshaded surfaces. About 54% of Plymouth's land area is covered in tree canopy. The canopy captures 22,147 tons of carbon dioxide a year, removes 2.7 million pounds per year of air pollutants and avoids 198 million pullons of temperater uniform.



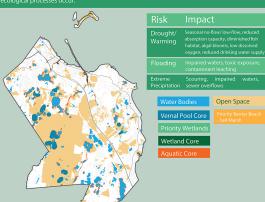
#### Valuable Habitat

Core Habitat and Critical Natural Landscapes are state-identified intact landscapes, or exemplary natural communities, that are better able to withstand climate change strees and support ecosystem vaibility. Plymouth has 30,783 acres of BioMap Core Habitat and 30,839 acres of Critical Natural Landscape, each of which is 50% protected. Plymouth has 151 parks and 30% of its chall land area as one other date on some of the control of the co



## **Aquatic Systems**

Freshwater weltand systems sustain critical ecosystem functions in climate change, such as restoring drinking water quantity and quality, providing flood control, and maintaining overall ecosystem health for climate resilience. Plymouth has 450 ponds totalling over 5,000 acres of fresh water. Many of these are the kettle ponds and coastal plain ponds where groundwater reaches the surface. Only four are regulated under the Clean Water Act for harmful algal blooms. The Town has worked collaboratively to restore and protect hundreds of acres of water ways and has 6,625 acres of State-designated BioMap Aquatic Core Habitat-intact river corridor where important physical and ecological processes occur.



### **Drinking Water Systems**

The Plymouth-Carver Sole Source Aquifer, the second largest in the State, provides drinking water to Plymouth residents and six surrounding towns. Climate Change and land use can deplete the water table, increase pollution of ponds and streams, require more wildfire suppression, and contaminate the aquifer. Changing precipitation patterns will cause drought or flooding, which can stress supply or increase contamination, particularly for Plymouth whose aquifer does not have a hydrogeologic barriel like duy that can prevent contamination.

