



Conservation Mapping Tools

This selection of user friendly conservation mapping tools provides land trusts and individuals means to identify, view and map key land conservation metrics in order to inform conservation decisions, prioritize sites for conservation, and understand the distribution of resources across the landscape.

Tool Name → Attribute ↓	BioMap2	Resilient Land Mapping Tool	MAPPR Tool 2.0	OLIVER
Sponsor	MassGIS	TNC	Mass Audubon	MassGIS
URL	http://maps.massgis.state.ma.us/dfg/biomap2.htm	http://maps.tnc.org/resilientland/	https://www.massaudubon.org/our-conservation-work/advocacy/shaping-the-future-of-your-community/current-projects/mappr-project/mappr-tool	http://maps.massgis.state.ma.us/map_ol/oliver.php
Description	<p>Combines 30 years of rigorously documented rare species and natural community data with spatial data identifying wildlife species and habitats that were the focus of the Division of Fisheries and Wildlife's 2005 State Wildlife Action Plan (SWAP). BioMap2 also integrates The Nature Conservancy's assessment of large, well-connected, and intact ecosystems and landscapes across the Commonwealth, incorporating concepts of ecosystem resilience to address anticipated</p>	<p>Maps locations that will be especially resilient as the climate changes and creates an index of the degree to which sites will be resilient.</p> <p>The index reveals which sites have characteristics that will make them “more likely to sustain diversity because they offer a wide range of micro-climate options within a connected area.”</p> <p>Users can see if a location has far above average, above average, slightly above average, average, below average, or far below average climate resilience.</p> <p>The tool also has a feature</p>	<p>Stands for Mapping and Prioritization Parcel for Resilience</p> <p>Identify parcels within an area of interest that are highest priorities for protection based on habitat quality, climate change resilience, and other metrics such as parcel size and adjacency to existing protected parcels.</p> <p>The higher the number and darker the color, the more critical that parcel is for conservation based on selected inputs.</p> <p>Click on a parcel to learn why it received that score – each input is scored as 0 (did not exist) to 1, 2, or 3 (very</p>	<p>OLIVER is MassGIS's online data viewer, enabling organizations and individuals to make their own maps if they don't have access to, or expertise in, GIS and GIS software.</p>



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	climate change impacts.	<p>which shows priority resilient and connected regional landscapes.</p> <p>Read the Resilient Sites Report to learn about how the analysis was conducted:</p> <p>http://easterndivision.s3.amazonaws.com/Resilient_Sites_for_Terrestrial_Conservation.pdf</p>	important for this input).	
Unique feature(s)	<p>1. Town Reports - and the wildlife and habitat details set forth therein - set BioMap2 apart from the other tools</p> <p>2. Focuses on wildlife and native species more than other tools</p>	<p>1. Synthesizes key indicators of climate resilience to show priority areas for conservation for ecosystem function.</p> <p>2. The analysis has already been done for the user, so the user can go straight to the location of interest and immediately learn the climate resilience potential.</p> <p>2. Analysis extends beyond Massachusetts for those interested focusing on landscape-scale conservation.</p>	<p>1. Can select other models' / tools' data (i.e., TNC's Resilience, BioMap2, UMass Critical Linkages, etc.)</p> <p>2. "Study area" choice includes multi-town land trust and watershed (in addition to the standard town and county categories)</p> <p>3. Select by parcel size, block, prime farmland, adjacent protection, surface water protection zones and more, as well as by BioMap2 Core Habitat and BioMap2 Natural Landscapes</p> <p>4. Resulting model (based on your input) allows you to click on a parcel and see why it was identified as its priority level</p>	<p>1. Breadth of data and layers available, especially under Physical Resources</p> <p>2. Easy to layer conservation-important attributes onto wide range of political / administrative layers</p> <p>3. Easy to overlay multiple attributes simultaneously; resulting map is easy to read</p>
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