



NOAA GLRI Webinar - Project Fact Sheet

Project Title	Runoff Risk Decision Support Tools
Project Lead	PI: Dustin Goering, NWS-NCRFC
Funding amount (\$) and years funded	FY14-FY21*: \$2,013,000 * FY21 Funding pending Congressional approval of GLRI funds
External partners, collaborators and/or sub-awardees	Wisconsin Department of Agriculture, Trade and Consumer Protection (DATCP), Minnesota Department of Agriculture (MDA), Ohio Department of Agriculture (ODA), Michigan Department of Agriculture and Rural Development (MDARD), University of Wisconsin, Ohio State University, Michigan State University, Wisconsin Discovery Farms, Minnesota Discovery Farms, U.S. Geological Survey (USGS), U.S. Department of Agriculture Agricultural Research Service (USDA-ARS), Michigan Sea Grant, Ohio Sea Grant, Great Lakes Environmental Research Laboratory (GLERL), Cooperative Institute for Great Lakes Research (CIGLR), National Center for Atmospheric Research (NCAR)
GLRI Focus Area	FA3: Nonpoint Source Pollution Impacts on Nearshore Health
GLRI Action Plan Primary Measure	Objective: 3.3 -- Improve effectiveness of nonpoint source control and refine management efforts
	Measure(s) of Progress: 3.3.1 -- Nutrient monitoring and assessment activities conducted
Brief project description	<p>The runoff risk concept was initiated by state request to meet state agency and farmer/producer needs for real-time actionable guidance on when to <i>not</i> apply nutrients to agricultural fields. Relying on National Weather Service (NWS) modeling, runoff risk tools inform farming managers of unfavorable forecast conditions where runoff could transport freshly applied nutrients off fields and into nearby waterbodies.</p> <p>Edge-of-field monitoring has indicated that application timing is an important factor on water quality. Following runoff risk guidance could provide both economic and environmental benefits.</p> <p>Runoff Risk tools are highly collaborative efforts between federal, state, and university partners. State working groups meet and help shape the look and behavior of the tools. Each state also fully funds their tool's website and conducts training and outreach.</p> <p>There are currently runoff risk tools operational in four states: Michigan,</p>

Minnesota, Ohio, and Wisconsin. Some discussions have occurred in Indiana and New York. The current runoff risk tools can be easily found by visiting this link: runoffrisk.info, which has a shortcut to each state website.

In the fall of 2019 the development of runoff risk version 3 began. This will produce runoff risk from the NWS National Water Model (NWM) which will allow higher resolution models utilizing NWS supercomputing facilities. This will also open the opportunity for states outside the Great Lakes footprint to partner with the NWS for runoff risk tools in their areas.

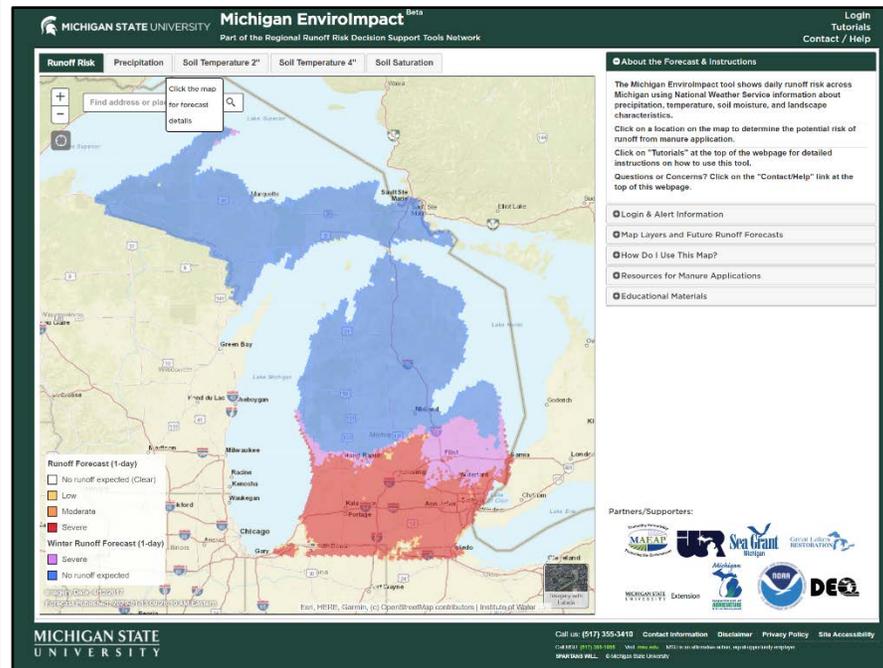


Fig 1. Example of the Michigan Runoff Risk tool.