Using EPA's EnviroAtlas and Recovery Potential Screening Tools to Support Sound Decision Making

Thursday, October 21, 2021, 1:00pm – 3:00pm Eastern

Speakers:

- **Annie Neale,** EnviroAtlas Lead, U.S. Environmental Protection Agency (EPA)
- **Jessica Daniel,** EnviroAtlas Outreach and Stakeholder Engagement Lead, U.S. Environmental Protection Agency (EPA)
- **Emily Cira,** Recovery Potential Screening (RPS) Lead, U.S. Environmental Protection Agency (EPA)
- **Andrew Somor,** Recovery Potential Screening (RPS) Expert, The Cadmus Group LLC
- **Brett Wiley,** Environmental Specialist, New Jersey Department of Environmental Protection

Watershed Academy Webcast

- The slides for today's presentations are posted on the Watershed Academy webpage.
- A recording of the webcast will be posted within the next month.

www.epa.gov/watershedacademy

- Note: The views expressed in the presentation are those of the authors and do not necessarily represent the views or policies of U.S. EPA. Mention of commercial enterprises, products, or publications does not mean that U.S. EPA endorses them.

Audience Polling

Speakers

- **Annie Neale,** EnviroAtlas Lead, U.S. Environmental Protection Agency (EPA)
- **Jessica Daniel,** EnviroAtlas Outreach and Stakeholder Engagement Lead, U.S. Environmental Protection Agency (EPA)
- **Emily Cira,** Recovery Potential Screening (RPS) Lead, U.S. Environmental Protection Agency (EPA)
- **Andrew Somor,** Recovery Potential Screening (RPS) Expert, The Cadmus Group LLC
- **Brett Wiley,** Environmental Specialist, New Jersey Department of Environmental Protection

EPA United States Environmental Protection Agency

EnviroAtlas: Connecting people, nature, health, and the economy

Watershed Academy, October 2021

ANNE NEALE
EnviroAtlas Lead

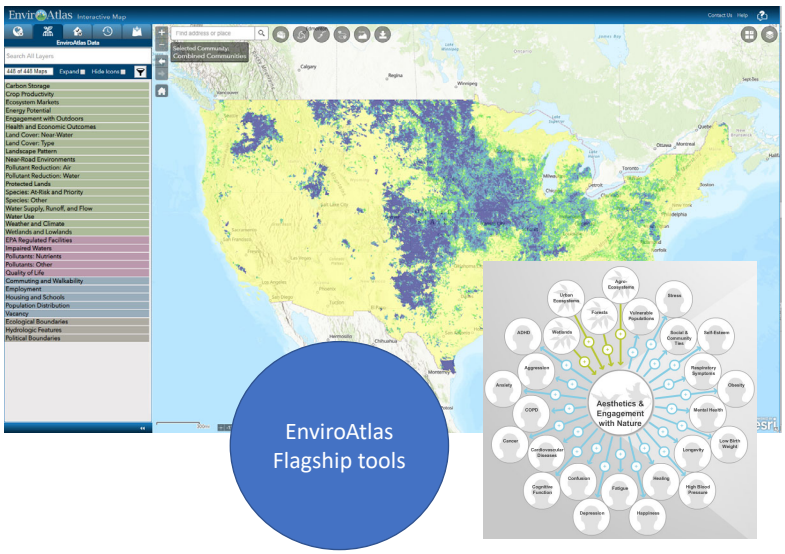
JESSICA DANIEL
Outreach & Stakeholder Engagement Lead

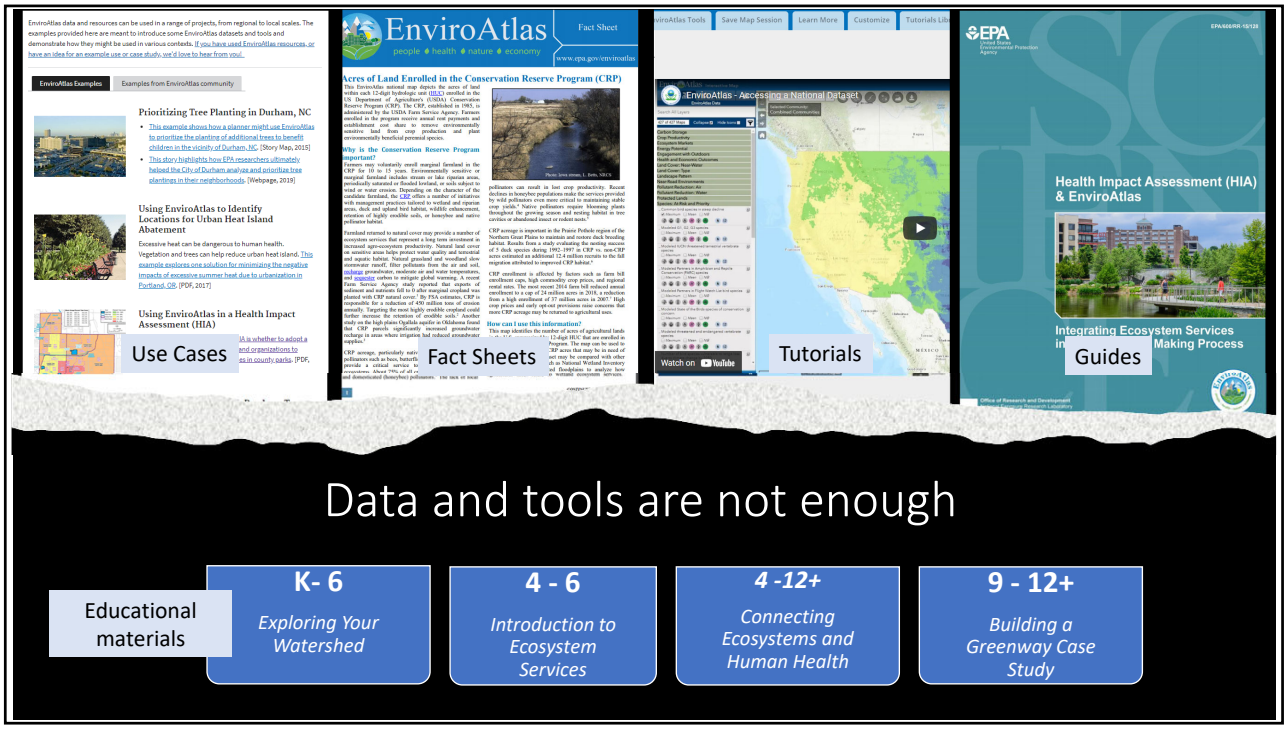
Center for Public Health and Environmental Assessment
U.S. EPA Office of Research and Development

EnviroAtlas is an online resource providing geospatial data, easy-to-use tools, and other resources related to ecosystem services, their chemical and non-chemical stressors, connections to human health, and equity.

EnviroAtlas Includes:

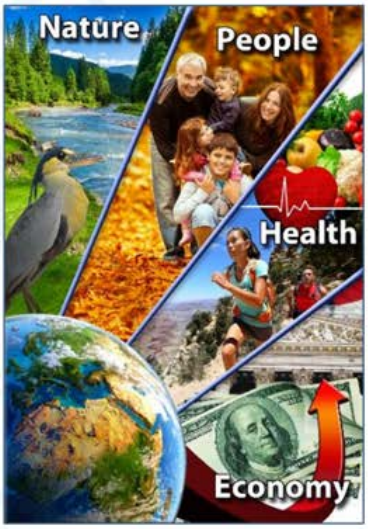
- Over 500 map layers, environmental and demographic
- **Interactive Mapping Application**
- **Eco-Health Relationship Browser**
- Analytic and Interpretive Tools
- GIS Toolboxes



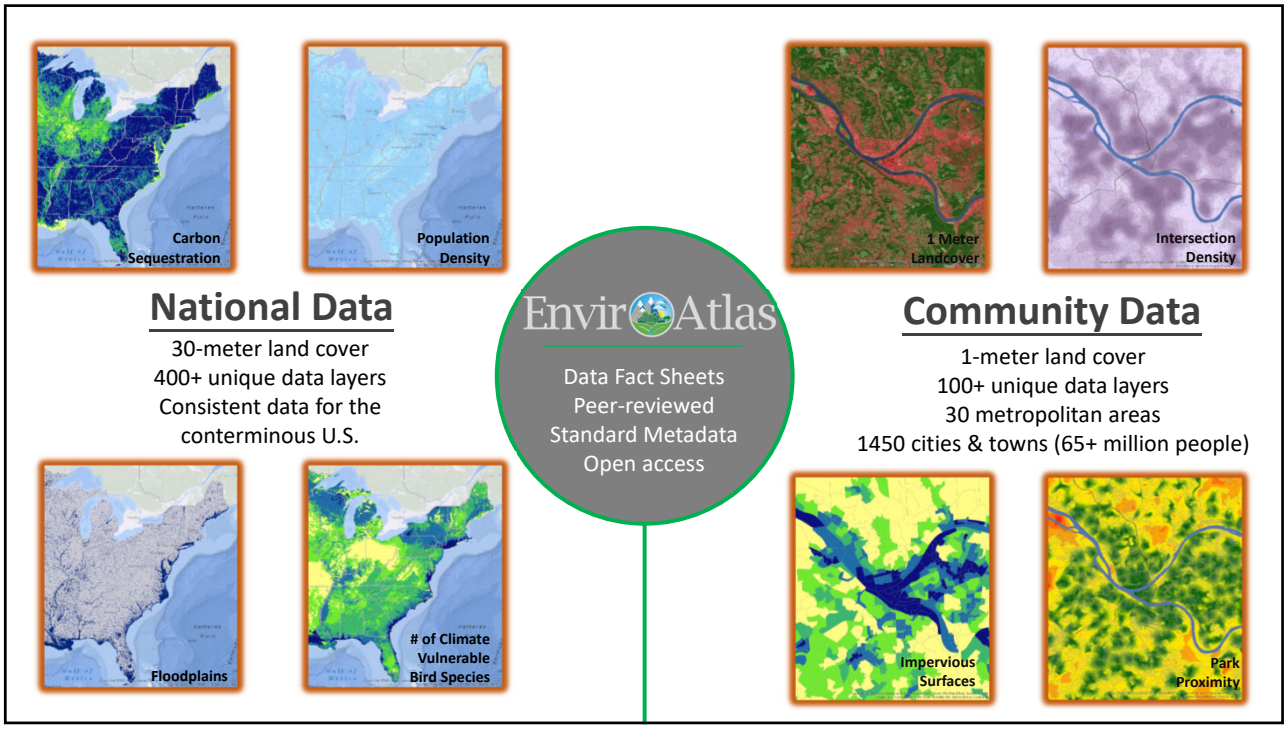


EnviroAtlas Objectives

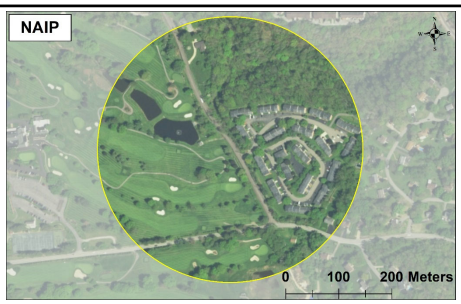
- Conduct research to produce data and tools linking nature, people, health, and the economy
- Publish that research in the science literature
- Integrate those products with other relevant data in an accessible application and website
- Reach a broad audience, including decision-makers, academia, and educators
- Increase geospatial intelligence



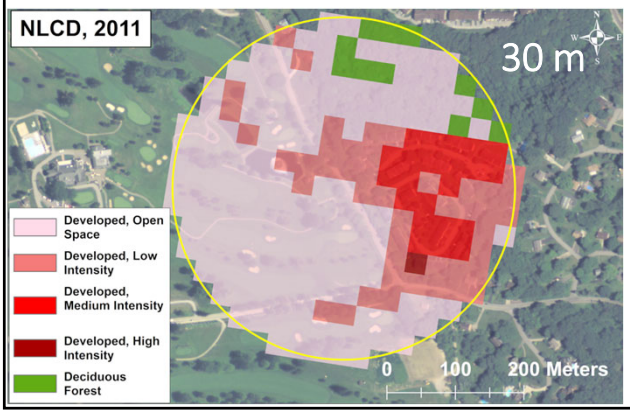

Clean Air
Clean & Plentiful Water
Biodiversity Conservation
Food, Fuel, & Materials
Natural Hazard Mitigation
Climate Stabilization
Recreation, Culture & Aesthetics
Ecosystem Services Benefit Categories


Carbon Sequestration
Population Density
1 Meter Landcover
Intersection Density
National Data
30-meter land cover
400+ unique data layers
Consistent data for the conterminous U.S.
EnviroAtlas
Data Fact Sheets
Peer-reviewed
Standard Metadata
Open access
Community Data
1-meter land cover
100+ unique data layers
30 metropolitan areas
1450 cities & towns (65+ million people)
Floodplains
# of Climate Vulnerable Bird Species
Impervious Surfaces
Park Proximity

Land cover



Pittsburgh, PA

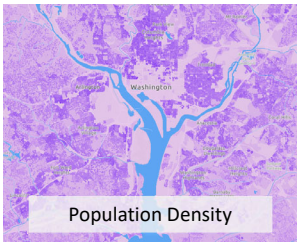


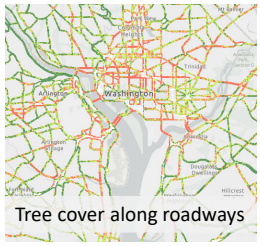
Data in EnviroAtlas

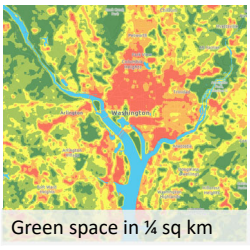
- EnviroAtlas provides data at multiple extents and scales

Types of Data

Pixel based / Raster
- Fine detail

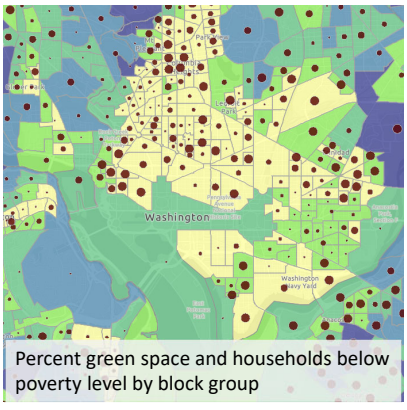

Population Density


Tree cover along roadways

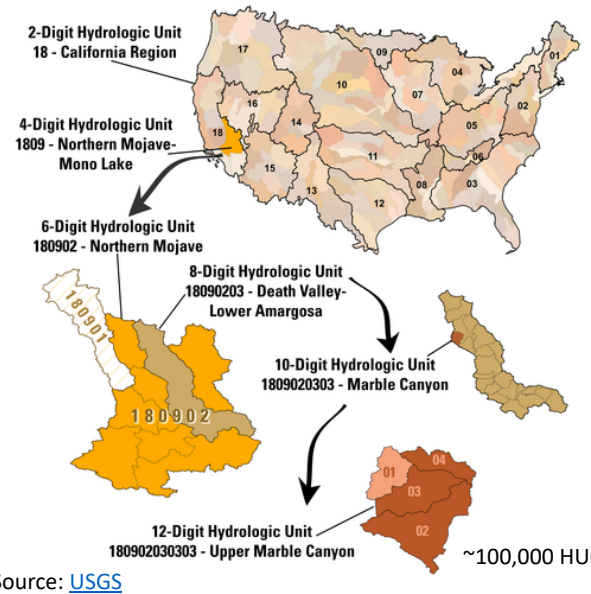

Green space in ¼ sq km

Lines/Vectors
- Individual features

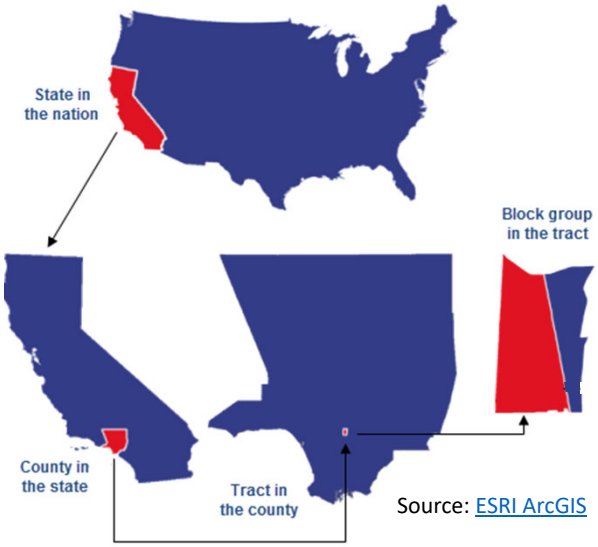
Summaries by Census block group, Census tract, watersheds
- Allows for data overlays


Percent green space and households below poverty level by block group

Summarized Data



Source: USGS



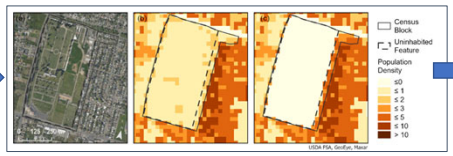
Source: ESRI ArcGIS

~100,000 HUC12 units in US

~218,000 block groups in US

Research to Action – Dasymetric Population Map

Developed data layer and toolbox

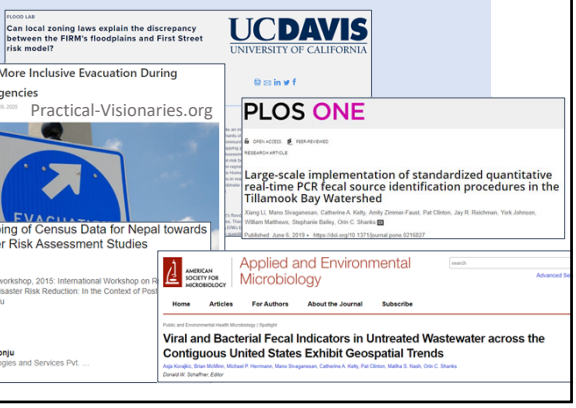


Uses

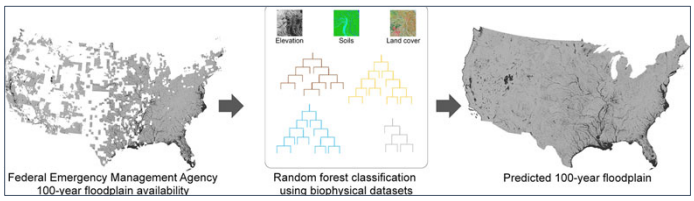
Assess exposure and environmental justice for people living near transportation infrastructure

- Use Dasymetric Population data
- Summarize number of people living close to railways, railyards, ports, busy roadways & airports
- Assess EJ issues associated with 100, 200, 500, & 1000 m buffer sizes

Fueling research and decision-making

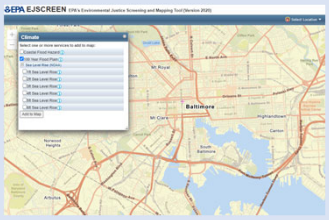


Research to Action – 100 yr Floodplain



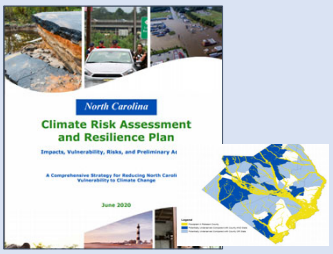
Uses

Decision-making through other EPA Tools
- EJSCREEN
- R1 NPL Superfund Vulnerability Assessment Tool
- UST Finder Tool

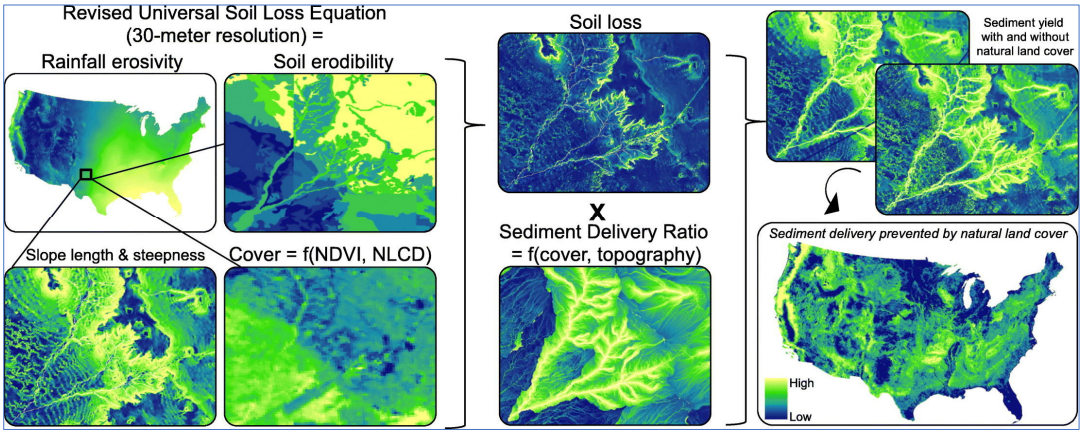


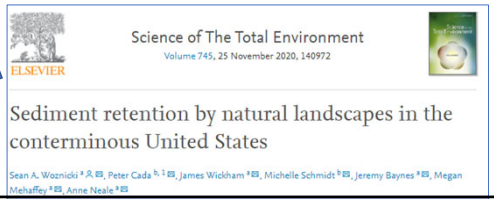
Vulnerable Infrastructure Assessment
- CDC Hospital and Medical Center Vulnerability Assessment

State Resilience Planning
- Chapter 4: Climate and Environmental Justice: Equity, Risk, and Resilience in North Carolina



Research to Action -- Erosion and Erosion Avoided





Uses

- Pollutant fate and transport
- Benefits of natural land cover to water quality, land stability, etc.
- Identify where to protect, restore

EnviroAtlas & Environmental Justice

- Includes data relevant to environmental justice, such as:
  - Demographic Data
  - Opportunity Zones
  - Climate scenarios, flooding, exposure, and other environmental variables affecting vulnerable populations
  - Redlining (coming soon)
- Add data function allows for inclusion of:
  - EJSCREEN indices
  - Local data of interest
- Educational lesson plan (high school, undergraduate) incorporating EJ concepts and data from EJSCREEN

Demonstration

https://www.epa.gov/enviroatlas

Where to Next

- New Functionality
  - Tool allowing users to combine data layers and calculate for any desired area
  - Tool allowing users to create index values from multiple data layers
  - Tool importing water quality data from WQ Portal
- New Data
  - Number of days exceeding thresholds for air PM and Ozone
  - Soil erosion, sedimentation, and retention
  - Mines
  - Harmful algal blooms
  - Expanding time series

THANK YOU!

U.S. ENVIRONMENTAL PROTECTION AGENCY

OFFICE OF RESEARCH AND DEVELOPMENT

www.epa.gov/enviroatlas

enviroatlas@epa.gov

ANNE NEALE

EnviroAtlas Lead

Neale.anne@epa.gov

JESSICA DANIEL

Outreach & Stakeholder Engagement Lead

Daniel.jessica@epa.gov

Using the Recovery Potential Screening Tool to Support Sound Decision Making

Watershed Academy, October 2021

Presenters

Emily Cira

US EPA, Office of Water
Watershed Branch

Andy Somor

The Cadmus Group

Brett Wiley

New Jersey Department of
Environmental Protection

Outline

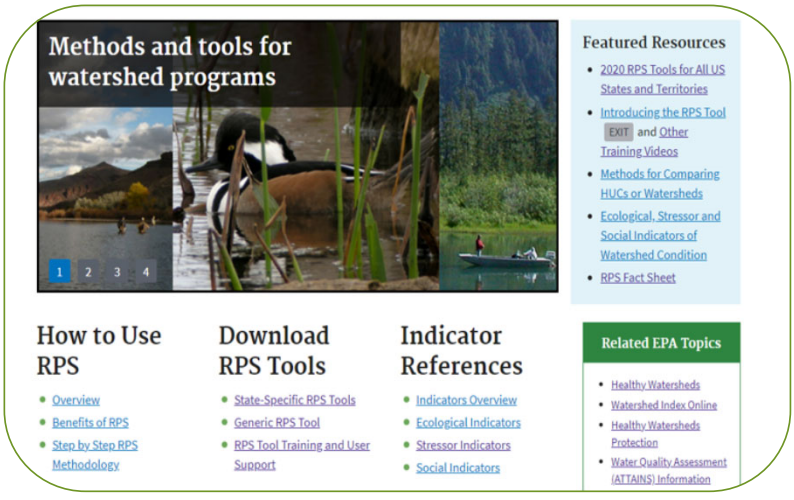
- What is the RPS Tool?
- RPS Tool demo
- New Jersey example
- Q&A

Recovery Potential Screening (RPS)

www.epa.gov/rps

Projects in 40+ states and territories

RPS data and tools for all states/territories



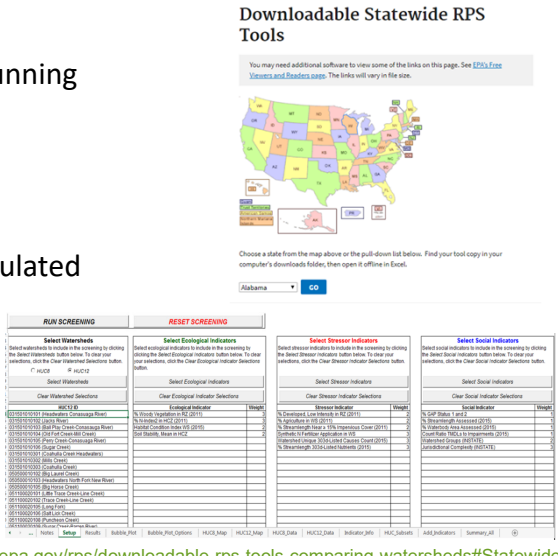
step by step instructions – indicators – tools (for more watershed indicator data also see www.epa.gov/wsio)

What is Recovery Potential Screening (RPS)?

- Framework for comparing a group of watersheds based on environmental, stressor, and social factors relevant for priority-setting
- Developed by EPA in 2006 to provide a systematic method, data, and tool for comparing watersheds to inform management decisions and priorities
- Variety of applications, for example:
  - TMDL development
  - State nonpoint source program five-year plans & 319 grants
  - Healthy watersheds protection
  - Wetland and riparian buffer mitigation grants
  - Water quality monitoring strategies
  - Deepwater Horizon restoration funding

What is the RPS Tool?

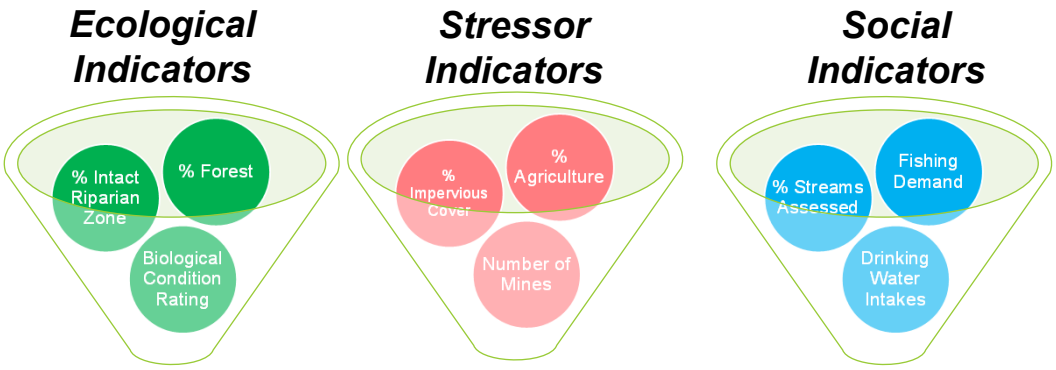
- An Excel file with custom macros and menus for running a screening with pre-loaded watershed data
- Produced for all US states and territories
- Each tool is pre-loaded with HUC12 indicators calculated from national datasets
- Updates released every 1-2 years with new indicator data and tool functions



https://www.epa.gov/rps/downloadable-rps-tools-comparing-watersheds#Statewide

Watershed Indicators

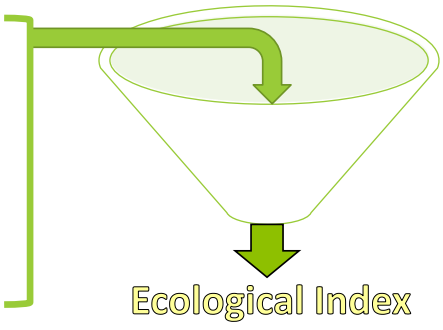
- Indicator-based method for watershed comparison and priority-setting
- Indicators are measures of watershed attributes that are relevant to water quality restoration and protection



Ecological Indicators

- Describe the condition of aquatic ecosystems and related watershed characteristics
- Offer insight into the capacity to maintain or regain ecological functions

1. **Forest, wetland, and other natural land cover**
2. **Aquatic life and habitat**
3. **Flow and geomorphic regime**
4. **Soil attributes**
5. **Ecological history (species/habitat occurrence)**

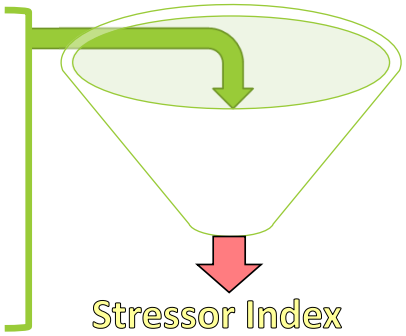


28

Stressor Indicators

- Describe anthropogenic attributes of the watershed
- Characterize risks to aquatic ecosystem health and effort required to address those risks

1. **Watershed disturbance**
2. **Riparian disturbance**
3. **Flow or geomorphic alteration**
4. **Biological stressors**
5. **Severity, complexity of pollution**
6. **Land use change**



29

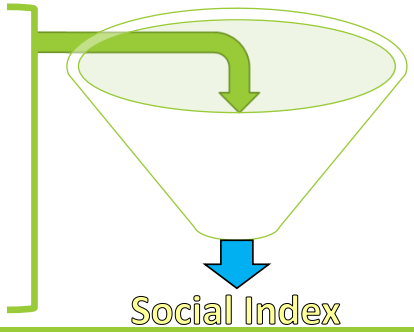
Social Indicators

- Societal or programmatic factors that support successful water quality restoration and protection

  or

- Are otherwise important for priority-setting

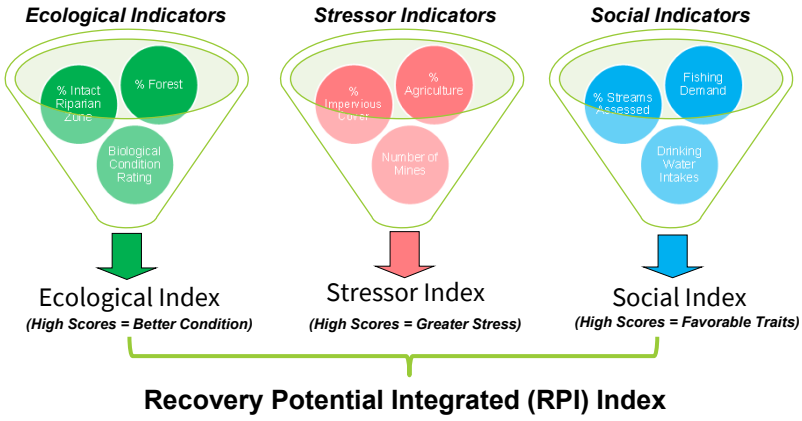
1. **Leadership and engagement**
2. **Level of information and planning**
3. **Restoration cost and complexity**
4. **Human uses and incentives**
5. **Land protection or regulation**
6. **Socio-economic factors**



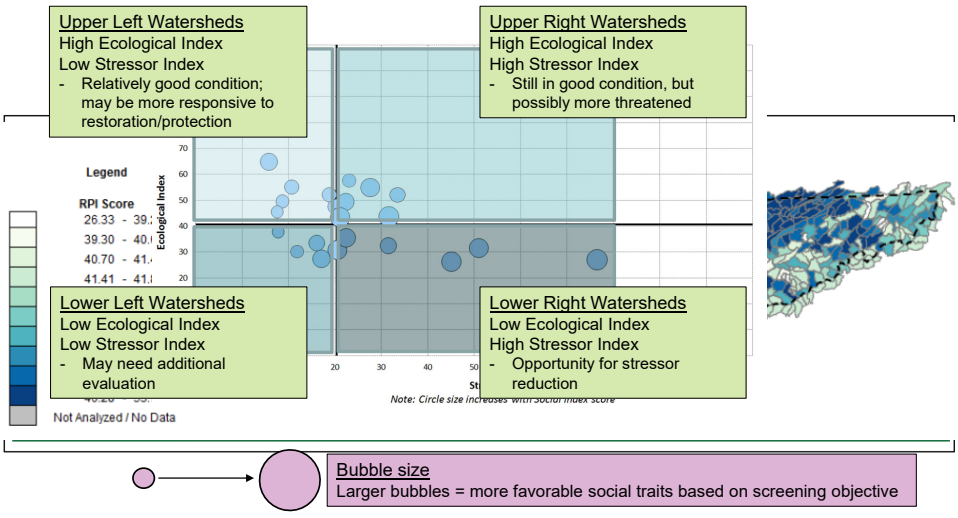
30

RPS Index Scores

- Indicators are combined into **Index Scores** – offer overall picture of ecological, stressor, and social characteristics



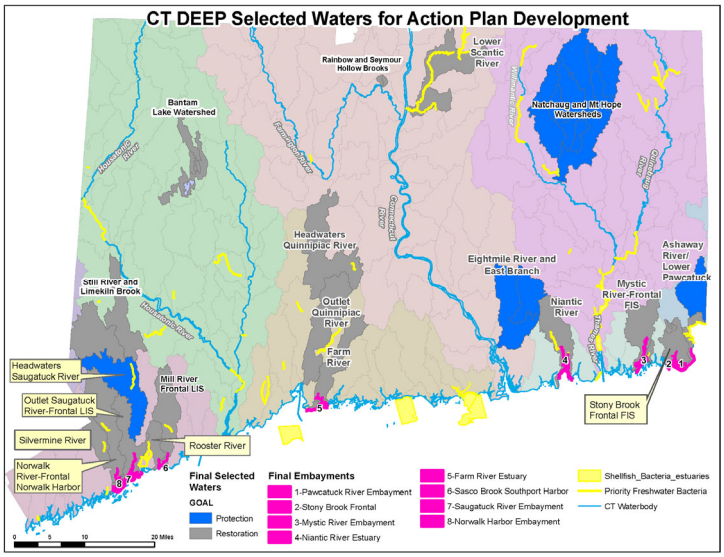
RPS Results



Example RPS Uses

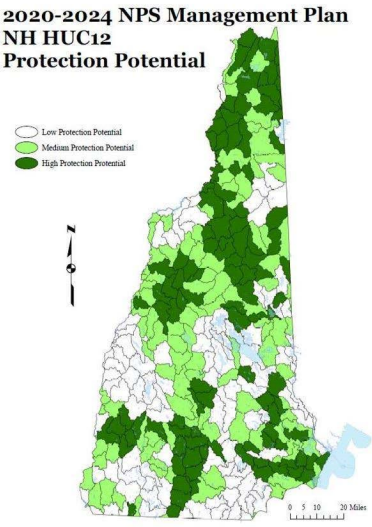
Water Quality Concerns

- **General Watershed Health (~ALUS)**
  - Restoration
  - Protection
- **Stormwater**
  - Restoration
  - Protection
- **Nutrients**
  - Restoration
  - Protection

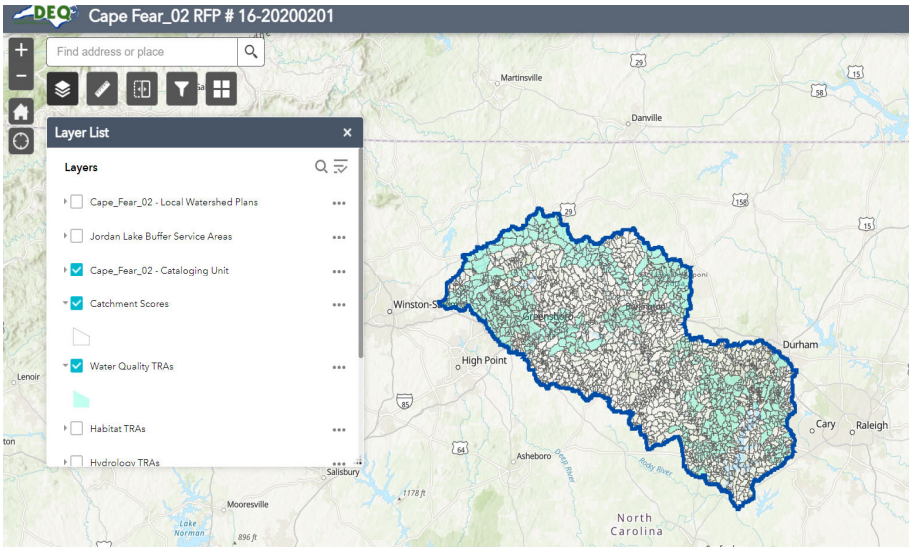


Example RPS Uses

	Criteria	Max Points
Water Quality Improvement (either/or)	**Impaired Waters**: Project will achieve or lead to removing an impairment from the 305(b) or 303(d) list, resulting in a Section 319 Success Story (see EPA's Nonpoint Source Success Stories webpage).	**40***
	High Quality Waters: Project will achieve or lead to quantifiable progress toward water quality goals in a high quality watershed.	**30***
Local Capacity	Commitment of the applicant's support network, and capacity to complete the proposed project. Ranking will be based upon the grantee's description and/or demonstration of their team's ability to successfully complete the proposed project.	**25**
Relative Value of the Waterbody	The availability (access), and extent of use of the waterbody. Uses include, but are not limited to: drinking water supply; public recreational opportunities; aquatic and terrestrial habitat benefits.	**15**
Priority Ranking	Project is located in high or medium priority watersheds as identified in the NHDES Nonpoint Source Management Program Plan.	**10**
Proposal Thoroughness	General quality and completeness of the proposal package.	**10**
	Total possible points for Impaired Waters* Total possible points for High Quality Waters*	**100** **90**

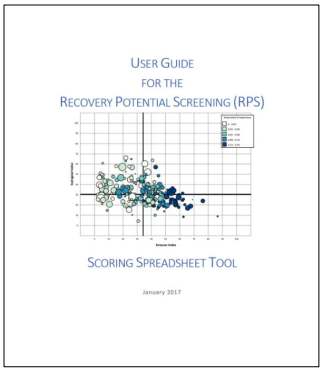


Example RPS Uses



RPS Tool Training Resources

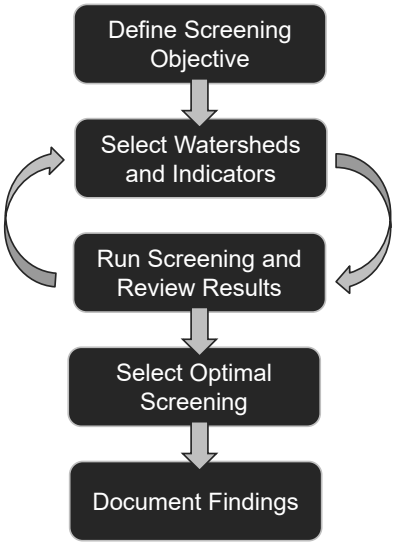
- User Guide with step-by-step instructions
- Video Training Series - short instructional videos that each focus on critical elements of the RPS Tool
- Reports from past projects



https://www.epa.gov/rps/rps-training-and-user-support

RPS Tool Demo

RPS Screening Process



RPS Tool Demo

- The *State of Paradise* has allocated funding to the Department of Environmental Protection to support climate change resilience and address environmental justice concerns through nonpoint source management

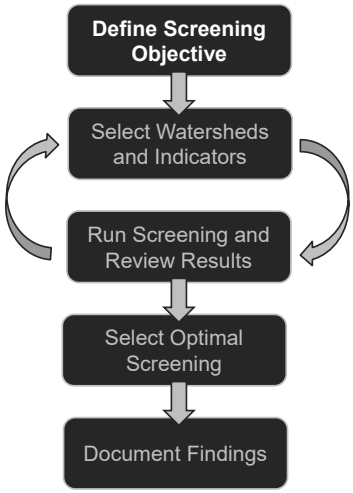
RPS Tool Demo

- This initiative requires DEP to consider both *climate vulnerability* and *environmental justice* factors in project decisions (new indicators!)
- The RPS Tool will be used to identify an initial group of priority HUC12s for further evaluation

RPS Tool Demo – Screening Objective

Hypothetical example:

"Identify target HUC12s for stormwater management practices to support climate change and community resilience"



RPS Tool Demo – Select Watersheds & Indicators

- Statewide screening – all HUC12s selected
- Characteristics of "target" HUC12s for improved stormwater management
  1) Indicators of a potential underserved community
  2) Presence of stormwater sources
  3) Increased pollutant loading and other climate impacts over time

RPS Tool Demo – Select Watersheds & Indicators

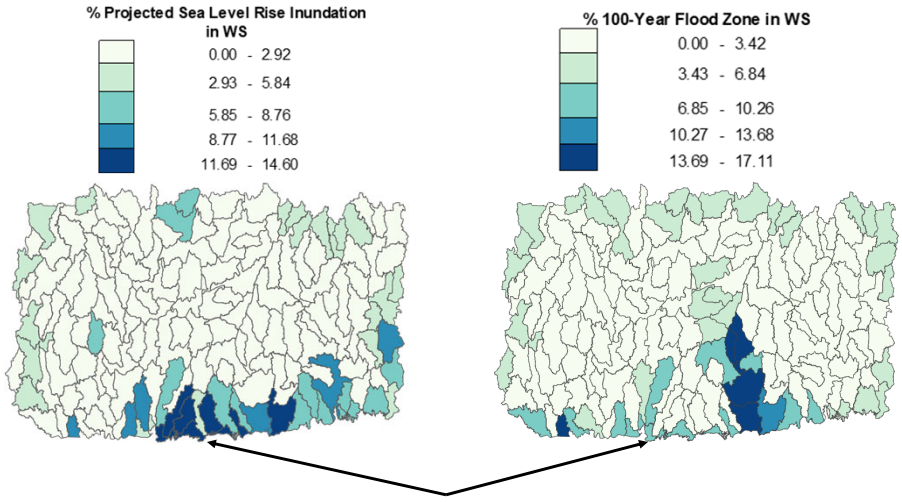
- Potential underserved communities

Social Indicators
% Low Income Population
% Minority Population
% < High School Educated Population
% Linguistically Isolated Population
% Vulnerable Age Groups

- Increased pollutant loading and other climate impacts over time
- Presence of stormwater sources

Stressor Indicators
% Projected Sea Level Rise Inundation
% 100-Year Flood Zone
% Imperviousness (2016)
% Urban Change (2001-16)

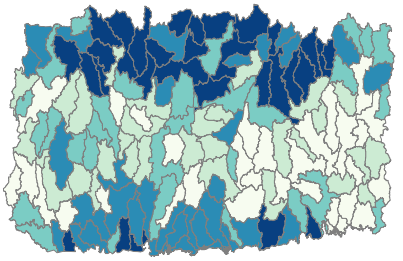
RPS Tool Demo – Run Screening and Review Results



Higher potential for flood-related climate impacts in south coast HUC12s

RPS Tool Demo – Run Screening and Review Results

High density development concentrated in north coast HUC12s

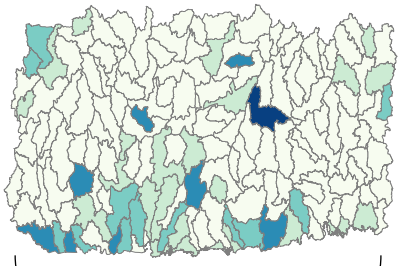


% Imperviousness, Mean in WS (2016)

0.10 - 1.09
1.10 - 2.36
2.37 - 5.50
5.51 - 11.62
11.63 - 61.10

% Urban Change in WS (2001-16)

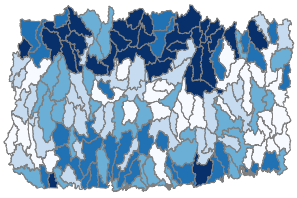
0.00 - 2.50
2.51 - 5.00
5.01 - 7.50
7.51 - 10.00
10.01 - 12.52



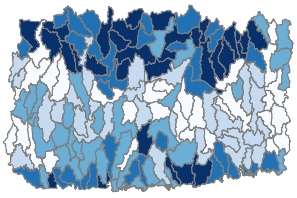
Signs of increasing development in south coast HUC12s

RPS Tool Demo – Run Screening and Review Results

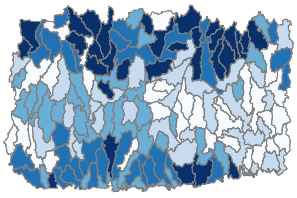
% Low-Income Population



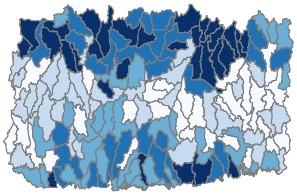
% Minority Population



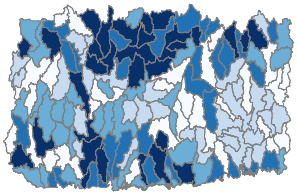
% < High School Educated



% Linguistically Isolated Population



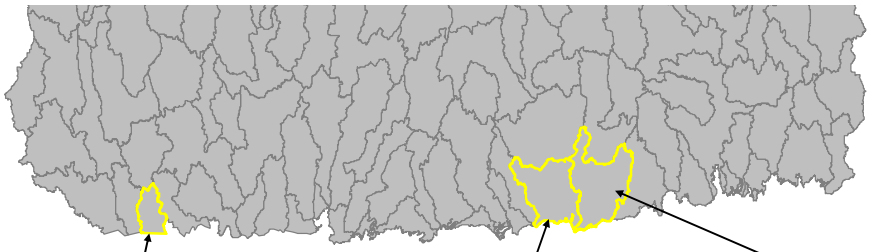
% Vulnerable Age Groups



0 - 20th Percentile
21 - 40th Percentile
41 - 60th Percentile
61 - 80th Percentile
81 - 100th Percentile

RPS Tool Demo – Run Screening and Review Results

Priority HUC12s – South Coast



Spruce River
Stressor Rank = 2nd
Social Rank = 6th

Cedar River
Stressor Rank = 3rd
Social Rank = 5th

Pine River
Stressor Rank = 1st
Social Rank = 10th

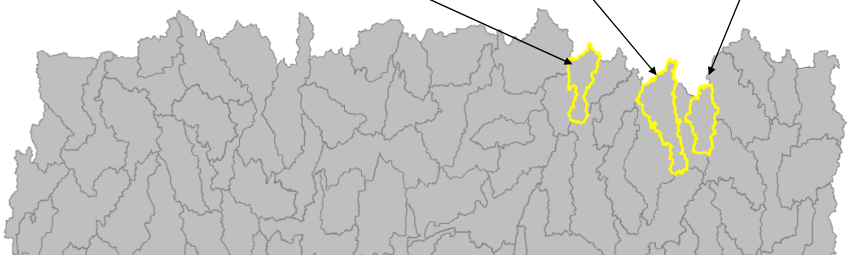
RPS Tool Demo – Run Screening and Review Results

Priority HUC12s – North Coast

Elk River
Stressor Rank = 22nd
Social Rank = 9th

Buffalo Brook
Stressor Rank = 18th
Social Rank = 1st

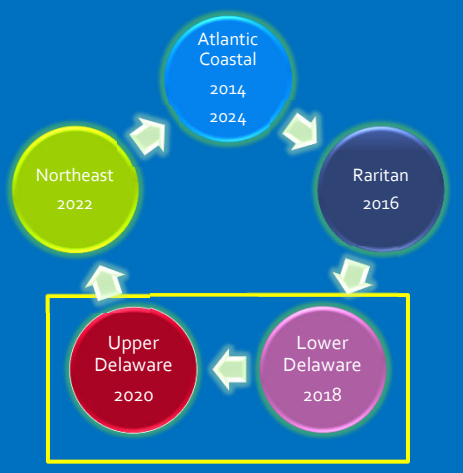
Fox Brook
Stressor Rank = 19th
Social Rank = 8th

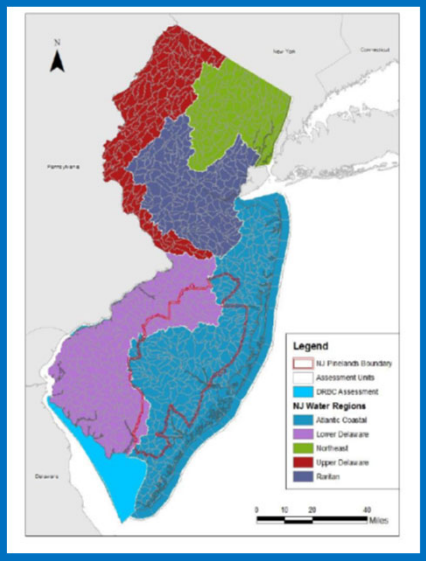


Uses for Screening Assessments

1) Identify, among watersheds with heavy pollutant loads, the healthier watersheds where substantial load reduction could still be accomplished.
2) Identify relative differences in restorability among all watersheds and related factors, to better anticipate restoration workloads.
3) Identify where impaired watershed restoration and healthy watershed protection efforts can have great synergy.
4) Coordinate with major groups or agencies who carry out restoration themselves.
5) Evaluate where best to make nonpoint source (319,NRD) or other restoration investments.

Rotating Basin Approach





NJDEP Water Monitoring and Standards

Similar interface to publicly available tool, HUC12/HUC14 optionality and customized New Jersey indicators are key difference

RUN SCREENING | RESET SCREENING

Select Watersheds

Select watersheds to include in the screening by clicking the *Select Watersheds* button below. To clear your selections, click the *Clear Watershed Selections* button.

○ HUC12 ◉ HUC14

Select Watersheds

Clear Watershed Selections

HUC14 ID
4UC02020007000010 (Rutgers Creek tribs)
4UC02020007010010 (Wallkill R / Lake Mohawk(above Sparta Sta))
4UC02020007010020 (Wallkill R (Ogdensburg to SpartaStation))
4UC02020007010030 (Franklin Pond Creek)
4UC02020007010040 (Wallkill R (Hamburg SW Bdy to Frkln Pnd))
4UC02020007010050 (Hardistonville tribs)
4UC02020007010060 (Beaver Run)
4UC02020007010070 (Wallkill R (Martins Rd to Hamburg SW Bdy))
4UC02020007010080 (Wallkill R (Franklin Pond to Ogdensburg))
4UC02020007020010 (Papakating Ck (above Frankford Plains))
4UC02020007020020 (Wykertown tribs (Papakating Creek))
4UC02020007020030 (Papakating Ck (Pelletown-Frankford Plns))
4UC02020007020040 (Papakating Ck WB(abv 74d39m30s side rd))
4UC02020007020050 (Papakating Ck WB(blw 74d39m30s side rd))
4UC02020007020060 (Clove Brook (Papakating Ck))
4UC02020007020070 (Papakating Ck (below Pelletown))
4UC02020007030010 (Wallkill R (41d13m30s to Martins Road))
4UC02020007030020 (Quarrwille Brook)
4UC02020007030030 (Wallkill River (Owens gage to 41d13m30s))
4UC02020007030040 (Wallkill River (stateline to Owens gage))
4UC02020007040010 (Black Creek (abovelncl G.Gorge Resort trib))
4UC02020007040020 (Black Creek (below G. Gorge Resort trib))
4UC02020007040030 (Pochuck Ck/Glenwood Lk & northern trib)
4UC02020007040040 (Highland Lake/Wawayanda Lake)
4UC02020007040050 (Wawayanda Creek & tribs)
4UC02020007040060 (Long House Creek/Upper Greenwood Lake)
4UC02040104090010 (Mashipacong Island UDRV tribs)
4UC02040104090020 (Clove Brook (Delaware R))
4UC02040104090030 (Shimers Brook)
4UC02040104110010 (UDRV tribs (Dingmans Ferry to 206 bridg))

Select Ecological Indicators

Select ecological indicators to include in the screening by clicking the *Select Ecological Indicators* button below. To clear your selections, click the *Clear Ecological Indicator Selections* button.

Select Ecological Indicators

Clear Ecological Indicator Selections

Ecological Indicator	Weight
General Aquatic Life Use Support Flag	1
Trout Aquatic Life Use Support Flag	1
Average Fish IBI Rating	1
Average Macroinvertebrate Condition Rating	1
Average Aquatic Habitat Rating	1
% Category 1 Waters	1
Rare Plant Species Flag	1
% N-Index2 in WS (2011)	1
% N-Index2 in RZ (2011)	1
% TP/TM waters	1
Rare Plant Species Count	1
Neutral Variable, Ecological Category	1

Select Stressor Indicators

Select stressor indicators to include in the screening by clicking the *Select Stressor Indicators* button below. To clear your selections, click the *Clear Stressor Indicator Selections* button.

Select Stressor Indicators

Clear Stressor Indicator Selections

Stressor Indicator	Weight
Neutral Variable, Stressor Category	1
% Imperviousness, Mean in WS (2011)	1
% Imperviousness, Mean in RZ (2011)	1
% Human Use Change, U-Index2 Chng in WS (2001-11)	1
% Developed Cover Projected Change (2010-2050)	1
Soil Erodibility, Mean in WS	1
Impaired Designated Uses Count	1
Impaired Waters Pollutant Count	1
Dam Count	1
Remediation/Contamination Site Count	1
% Golf Course	1
% Landfill	1
CSO Outfall Count	1
NJPDES Discharger Count	1
Phosphorus Test	1

Select Social Indicators

Select social indicators to include in the screening by clicking the *Select Social Indicators* button below. To clear your selections, click the *Clear Social Indicator Selections* button.

Select Social Indicators

Clear Social Indicator Selections

Social Indicator	Weight
Recreation Use Support Flag	1
TMDL Count	1
Shellfish Harvesting Area Flag (All)	1
Shellfish Harvesting Area Flag (Non-Prohibited)	1
% Wellhead Protection Area in WS	1
Source Area Flag for Surface Drinking Water Supply	1
% Source Area for Surface Drinking Water Supply	1
% Open Space in WS	1
% Farmland Preservation Areas in WS	1
Beach Count in WS	1
Restoration Project Count in WS	1
Neutral Variable, Social Category	1

... | Notes | Setup | Results | Bubble_Plot | Bubble_Plot_Options | HUC14_Map | HUC12_Data | HUC14_Data | Indicator_Info | HUC_Subsets | Add_Indicators

Select Ecological Indicators

Select ecological indicators to include in the screening by clicking the *Select Ecological Indicators* button below. To clear your selections, click the *Clear Ecological Indicator Selections* button.

Select Ecological Indicators

Clear Ecological Indicator Selections

Ecological Indicator	Weight
General Aquatic Life Use Support Flag	1
Trout Aquatic Life Use Support Flag	2
% N-Index2 in WS (2011)	2
% N-Index2 in RZ (2011)	3
Average Fish IBI Rating	1
Average Macroinvertebrate Condition Rating	1
Average Aquatic Habitat Rating	1
% Category 1 Waters	2
% TP/TM waters	2
Rare Plant Species Count	1
Rare Plant Species Flag	1

Select Stressor Indicators

Select stressor indicators to include in the screening by clicking the *Select Stressor Indicators* button below. To clear your selections, click the *Clear Stressor Indicator Selections* button.

Select Stressor Indicators

Clear Stressor Indicator Selections

Stressor Indicator	Weight
% Imperviousness, Mean in WS (2011)	3
% Imperviousness, Mean in RZ (2011)	3
% Human Use Change, U-Index2 Chng in WS (2001-11)	2
% Developed Cover Projected Change (2010-2050)	3
Soil Erodibility, Mean in WS	1
Impaired Designated Uses Count	2
Impaired Waters Pollutant Count	2
Dam Count	1
Remediation/Contamination Site Count	2
% Landfill	1
CSO Outfall Count	1
NJPDES Discharger Count	2

Select Social Indicators

Select social indicators to include in the screening by clicking the *Select Social Indicators* button below. To clear your selections, click the *Clear Social Indicator Selections* button.

Select Social Indicators

Clear Social Indicator Selections

Social Indicator	Weight
Recreation Use Support Flag	1
TMDL Count	2
% Wellhead Protection Area in WS	1
Source Area Flag for Surface Drinking Water Supply	1
% Source Area for Surface Drinking Water Supply	1
% Open Space in WS	1
% Farmland Preservation Areas in WS	2
Restoration Project Count in WS	1

Upper Delaware

NJDEP data

Lower Delaware (also consists of NJDEP data)

Select Ecological Indicators

Select ecological indicators to include in the screening by clicking the *Select Ecological Indicators* button below. To clear your selections, click the *Clear Ecological Indicator Selections* button.

Select Ecological Indicators

Clear Ecological Indicator Selections

Ecological Indicator	Weight
% N-Index2 in WS (2011)	3
% N-Index2 in RZ (2011)	3
Average Fish IBI Rating	1
Average Macroinvertebrate Condition Rating	1
Average Aquatic Habitat Rating	1
% Category 1 Waters	2
Rare Plant Species Count	1
Rare Plant Species Flag	1
General Aquatic Life Use Support Flag	1

Select Stressor Indicators

Select stressor indicators to include in the screening by clicking the *Select Stressor Indicators* button below. To clear your selections, click the *Clear Stressor Indicator Selections* button.

Select Stressor Indicators

Clear Stressor Indicator Selections

Stressor Indicator	Weight
% Imperviousness, Mean in WS (2011)	3
% Imperviousness, Mean in RZ (2011)	3
% Human Use Change, U-Index2 Chng in WS (2001-11)	2
% Developed Cover Projected Change (2010-2050)	3
Soil Erodibility, Mean in WS	1
Impaired Designated Uses Count	2
Impaired Waters Pollutant Count	2
Dam Count	1
Remediation/Contamination Site Count	2
% Golf Course	1
% Landfill	1
CSO Outfall Count	1
NJPDES Discharger Count	2

Select Social Indicators

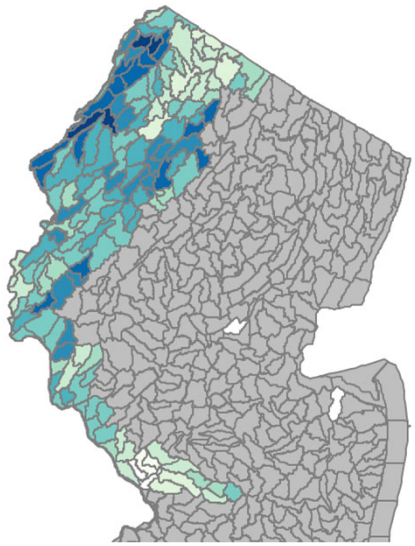
Select social indicators to include in the screening by clicking the *Select Social Indicators* button below. To clear your selections, click the *Clear Social Indicator Selections* button.

Select Social Indicators

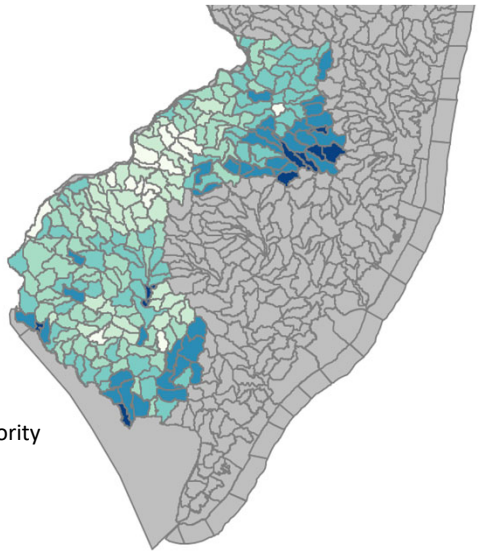
Clear Social Indicator Selections

Social Indicator	Weight
Recreation Use Support Flag	1
TMDL Count	2
% Wellhead Protection Area in WS	1
Source Area Flag for Surface Drinking Water Supply	1
% Source Area for Surface Drinking Water Supply	1
% Open Space in WS	1
% Farmland Preservation Areas in WS	2
Restoration Project Count in WS	1
Shellfish Harvesting Area Flag (All)	1
Shellfish Harvesting Area Flag (Non-Prohibited)	1

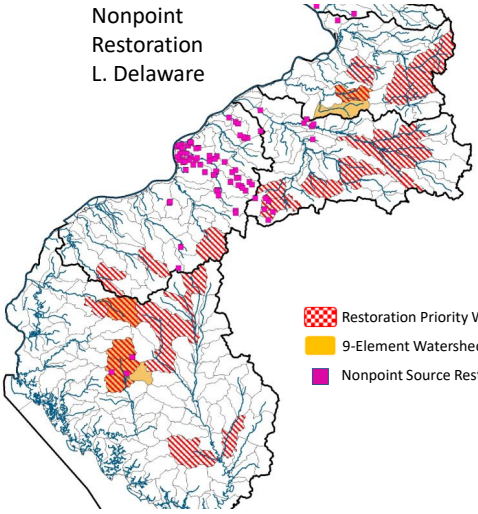
Upper and Lower Delaware Region Results



Dark Blue is highest priority
White is lowest priority

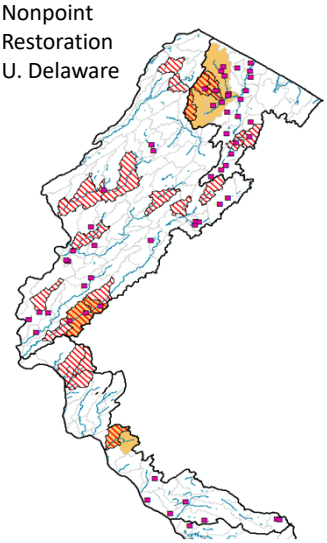


Nonpoint
Restoration
L. Delaware

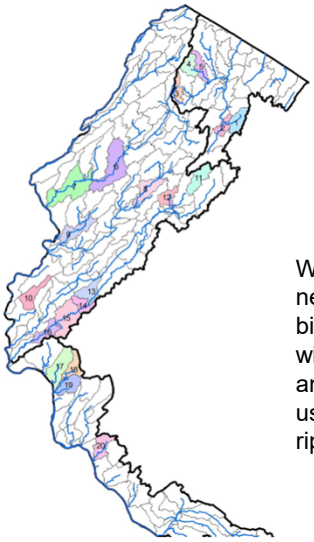


Restoration Priority Watersheds
9-Element Watershed Plans
Nonpoint Source Restoration Project

Nonpoint
Restoration
U. Delaware



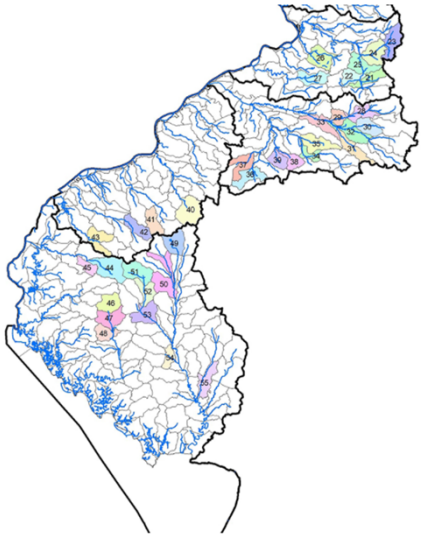
Restoration Priority Assessment Units Upper Delaware



55 AUs selected encompassing all seven watershed management areas where AUs show the best potential in achieving water quality improvements to restore designated uses.

Waters characterized by water quality data near or trending toward the criteria, healthy biological communities nearby, watersheds with a limited number of identified sources and causes, sufficient undeveloped land use, and intact or limited development in the riparian zones.

Restoration Priority Assessment Units Lower Delaware



Future of the NJ RPS Tool

- Ongoing layer updates (collaborating with EPA and Cadmus)
- Possible addition of Overburdened Community (OBC) layer
- Updates to be used in the 2022 IR (Northeast Water Region)

Thank you to the EPA and the Cadmus Group

and

Thank you all for attending!

Participation Certificate

- If you would like to obtain a participation certificate you can access the PDF in the **Handouts** section of your control panel.

Contact Information

Annie Neale, EnviroAtlas Lead, U.S. Environmental Protection Agency (EPA), Neale.Anne@epa.gov

Jessica Daniel, EnviroAtlas Outreach and Stakeholder Engagement Lead, U.S. Environmental Protection Agency (EPA), Daniel.Jessica@epa.gov

Emily Cira, Recovery Potential Screening (RPS) Lead, U.S. Environmental Protection Agency (EPA), Cira.Emily@epa.gov

Andrew Somor, Recovery Potential Screening (RPS) Expert, The Cadmus Group LLC, Andrew.Somor@cadmusgroup.com

Brett Wiley, Environmental Specialist, New Jersey Department of Environmental Protection, Brett.Wiley@dep.nj.gov

Watershed Academy Webcasts

More webcasts coming soon!

The slides from today's presentations are posted on the Watershed Academy webpage.

A recording of the webcast will be posted within the next month.

www.epa.gov/watershedacademy

Thank You!