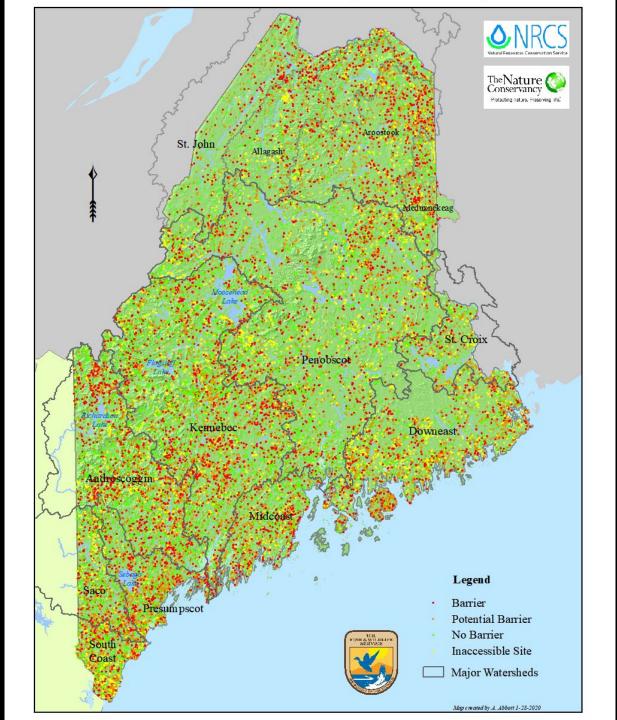
Stream Crossing Data & Prioritization





Species Impacted by Barriers



What is the goal? Fish Passage Aquatic Organism Passage Terrestrial Animal Passage

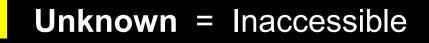
Stream Crossing Classification

Barrier = Free Fall (Perched) Outlet (≈85%) or Other Severe Physical Barriers



No Barrier = Span OK *, Inlet & Outlet at Grade, no significant Physical Barriers, Substrate throughout, Adequate water depth

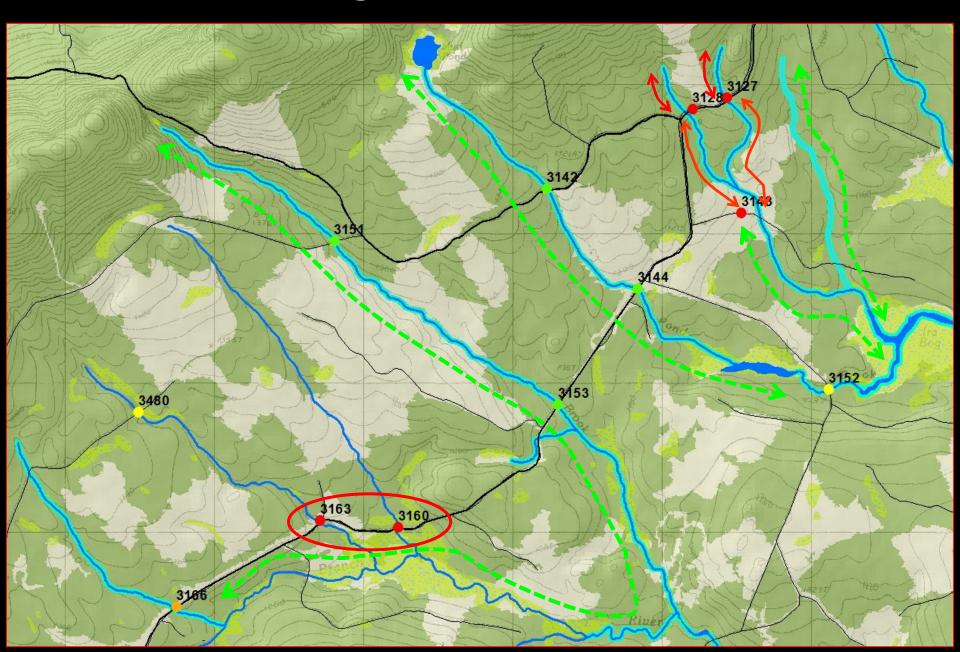
Potential Barrier = All conditions other than above, including minor or moderate physical barriers, shallow water depth, lack of substrate



Crossing Data Barrier Class by Road Class



Crossing Data – BAT Metrics

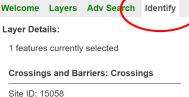


Maine Stream Habitat Viewer

Maine Stream Habitat Viewer i Q Welcome Layers Adv Search Identify Enter Town or Site ID of Crossin -+Riviere-du-Loup Campbellton Basemaps - About Layers _ Bathurst Layers in gray text will not display until you zoom 0 A 10 in closer. To see the legend for each layer, click Edmundston the arrow to the left of the layer name. To get \odot information about a certain feature, simply click on that feature in the map. A pop-up box and the Miramichi Identify Tab provide information on that feature. Quebec Lévis Shawinigan Parc du Mon t-Trembl ant Crossings & Barriers Trois-Summerside Rivieres 0 Crossings Thetford Charlottetown Moncton Mines Barrier Sorel-Tracy Victoriaville Joliette St-Georges Fredericton Potential Barrier Drummondville No Barrier Laval o o Longueuil Unknown Granby Sherbrooke Montreal Truro 0 🗸 🗸 Dams Saint John St-Jean-sur-G 0 Richelieu Barrier Cornwall NOVA SCOTIA 🔶 Potential Barrier Bay of 0 Natural Barriers GREEN MOUNTAINS Halifax Digby Barrier Adir ond ack Park WHIT Montpelier MOUN Potential Barrier VERMONT ✓ ✓ Impassable Waterfalls 0 ADIRONDACK MOUNTAINS Yarmouth 😑 Priority Habitats NEW E Atlantic Salmon Alewife Concord Sea-Run Rainbow Smelt Utica NEW YORK Mohawa Wild Eastern Brook Trout Nashua Tidal Marshes Albany Lowello Other Habitats Boston 📁 Water Features 00kn ^OWorcester 🚞 Watersheds Springfield Esri, HERE, Garmin, FAO, NOAA, USGS, EPA, NPS, AAFC 60mi Plymouth

Maine Stream Habitat Viewer

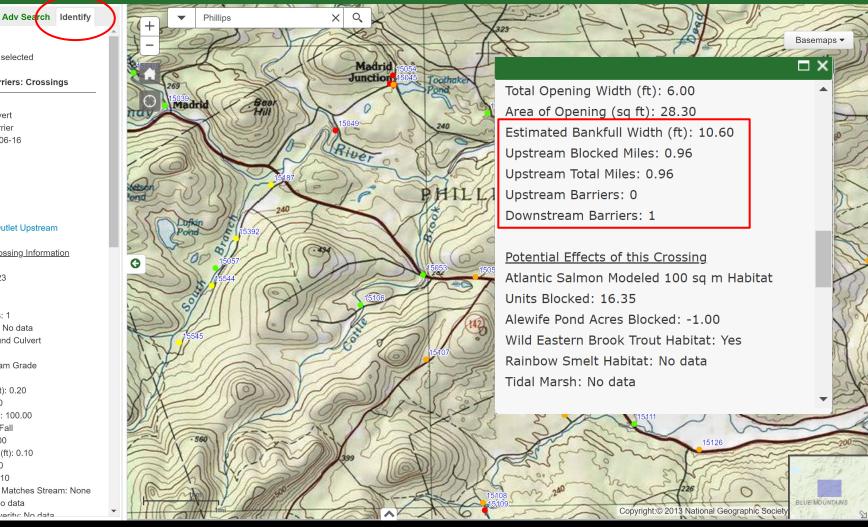
Maine Stream Habitat Viewer



Crossing Type: Culvert Crossing Class: Barrier Survey Date: 2010-06-16 Stream: Unknown Town: Phillips County: Franklin Road: Salem Road

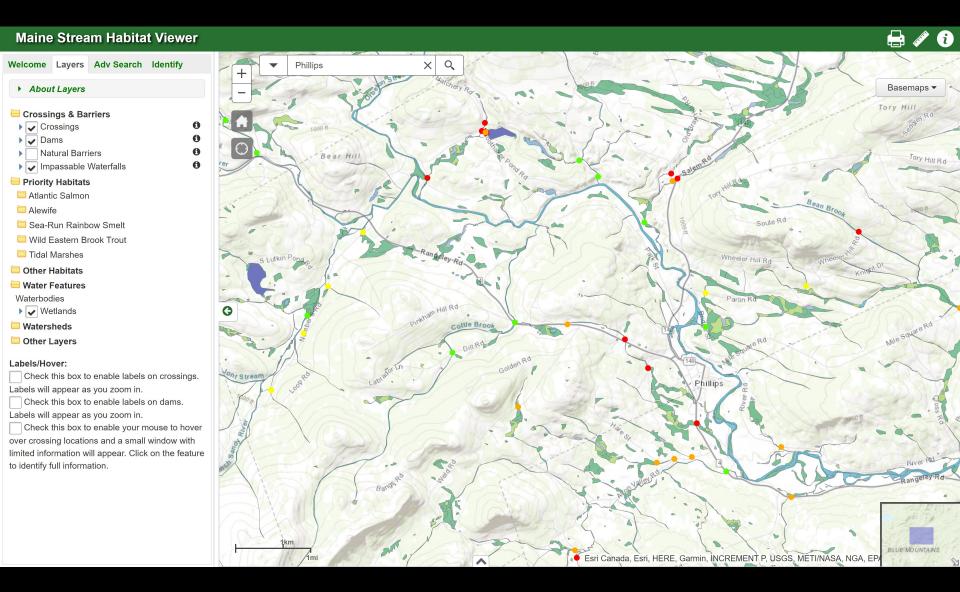
Photos Downstream Inlet Outlet Upstream

Detailed Stream Crossing Information Latitude: 44.85990 Longitude: -70.34723 Road Type: Paved Road Class: State Number Of Culverts: 1 Crossing Condition: No data Structure Type: Round Culvert Material: Metal Inlet Grade: At Stream Grade Inlet Width (ft): 6.00 Inlet Water Depth (ft): 0.20 Inlet Height (ft): 6.20 Crossing Length (ft): 100.00 Outlet Grade: Free Fall Outlet Width (ft): 6.00 Outlet Water Depth (ft): 0.10 Outlet Drop (ft): 1.20 Outlet Height (ft): 6.10 Structure Substrate Matches Stream: None Physical Barriers: No data Physical Barrier Severity: No data

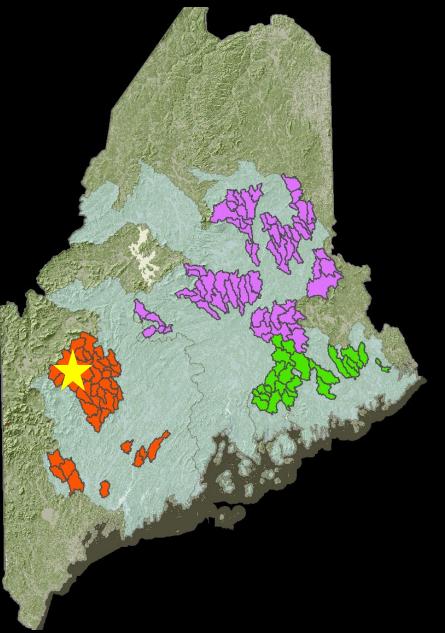


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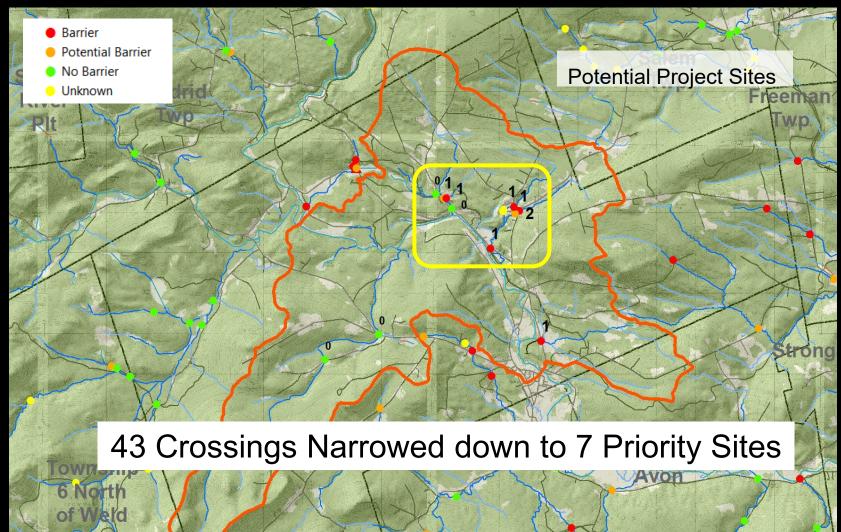
Maine Stream Habitat Viewer



Prioritization – Salmon Focus Areas



Prioritization – Phillips Focus Area



Weld

TNC Flood Risk Explorer



TNC Maine Mapping Portal

CULVERT FLOOD RISK EXPLORER

AQUATIC BARRIER PRIORITIZATION

COASTAL RISK EXPLORER FUTURE HABITAT EXPLORER

TNC Maine Mapping Portal



Culvert Flood Risk Explorer

The Culvert Flood Risk Explorer shows the risk level of road flood events in the next 30 years at roadstream crossings across the state, in addition to relevant fish priorities for each crossing. This analysis was performed on public and select private crossings; however, it is not exhaustive and only addresses the flood risk of culverts caused by potential flow restriction.

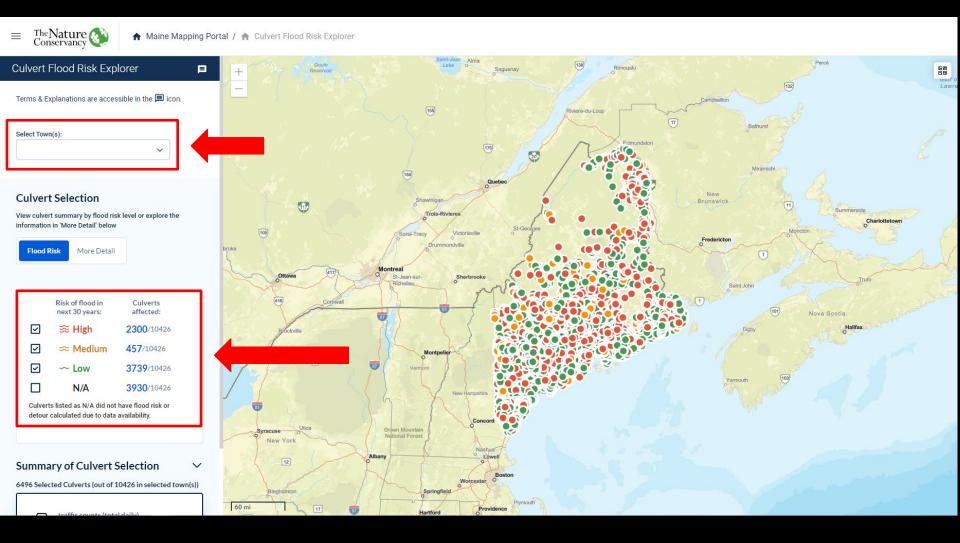
GO TO CULVERT FLOOD RISK EXPLORER

Partners:

United States Department of Agriculture

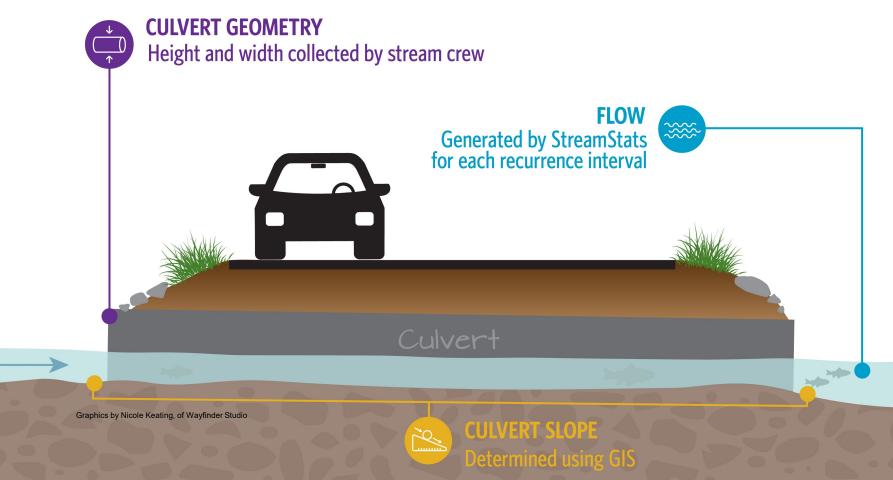
https://maps.tnc.org/maine/

Online Tools TNC Flood Risk Explorer



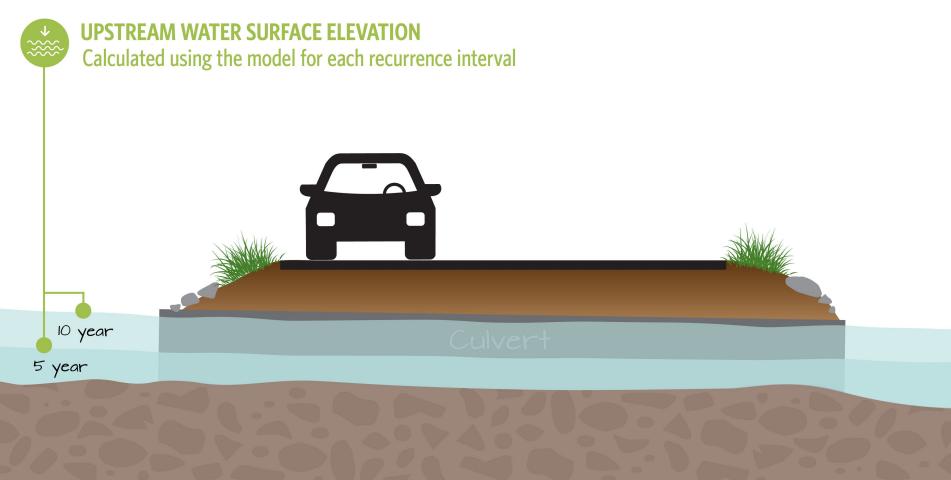
TNC Flood Risk Explorer

To answer the question, we need to know...



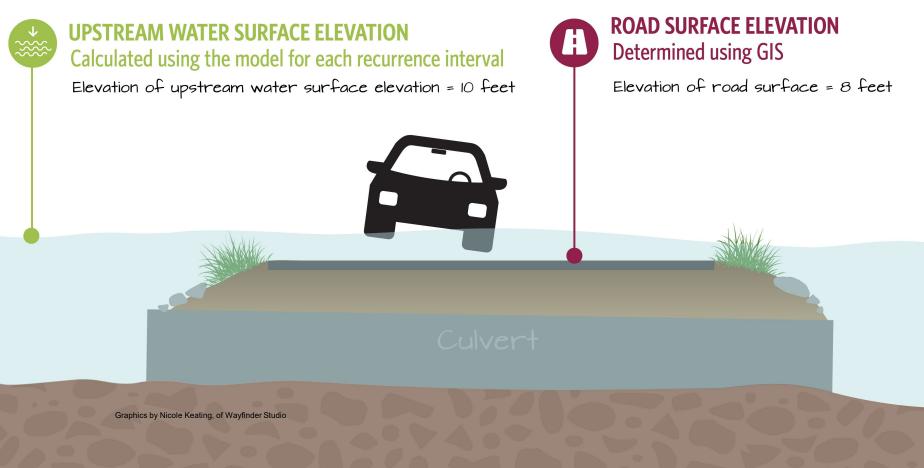
TNC Flood Risk Explorer

which allows us to calculate...

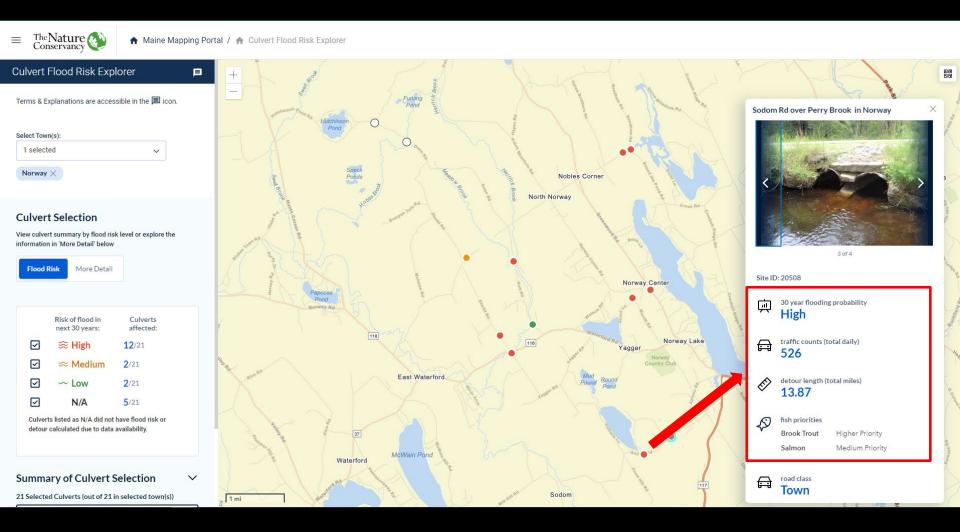


Online Tools TNC Flood Risk Explorer

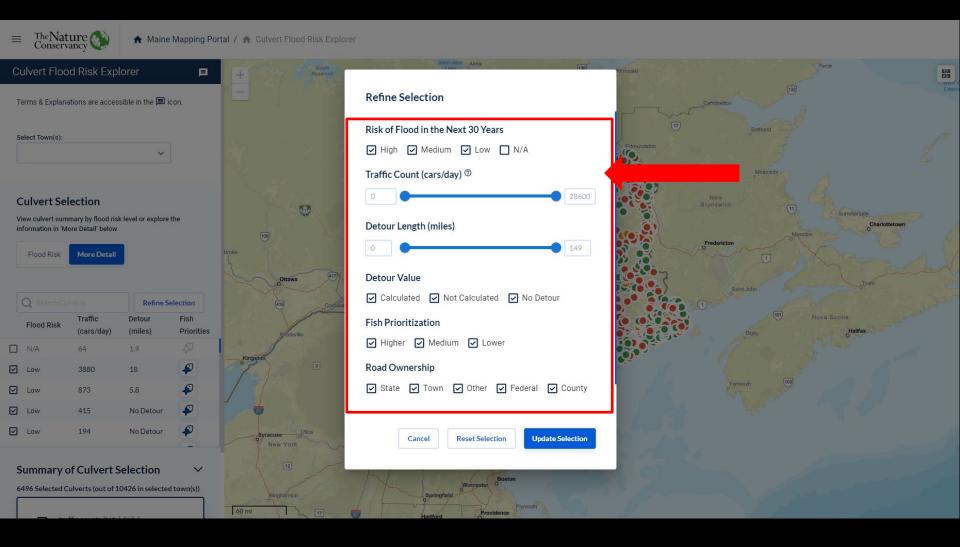
For example, the 25 year event...



TNC Flood Risk Explorer



Online Tools TNC Flood Risk Explorer



Data Update Form

STREAM CROSSING SURVEY - DATA UPDATE *
Site ID Installation Date
Recorder Name Telephone / Email
Town Organization
Road Type Paved Unpaved Driveway
Stream Digital Photos Taken Inlet Outlet Other
GPS Coordinates - Lat/Lon [WGS84] (N) (N) (W) If the crossing already has a SiteID, GPS coordinates are optional and used only to confirm correct site location.
Basic Structure Type Bridge Culvert Multiple Culverts # Ford Removed Structure
Material Metal Concrete Plastic Wood Stone Other
Specific Structure Type: Round Pipe Arch/Ellipse Bottomless Arch Box Culvert (with bottom
Box/Bridge w/Vertical Abutments Bridge w/Sloped Sides Bridge w/Sloped Sides & Abutments
Inlet Water Depthft
Outlet Condition Cree Cate At Stream Grade Free Fall Cascade
Outlet Span ft B) Outlet Clearance ft
Outlet Water Depthft Outlet Dropft (if any; vertical drop to water surface)
Crossing Structure Length ft (along stream)
Crossing Substrate None Comparable to Stream Bottom AND Throughout Structure? Yes No
Sliplined Culvert Yes No (Usually plastic pipe inserted into failing pipe with space between filled with grout.)
Comments:
* Data from this form will update the Maine Barrier Database, particularly when replacing (or removing) stream crossings. Call Alex Abbott with questions about this form at 207-415-1472, or send email to AlexOAbbott@hotmail.com, and also send digital photos to this address.
Please include any additional relevant information not appearing to fit fillable form elements in the Comments section.
Maine Stream Crossing Data Update Form 11/30/202

The crossing data is only good if it is kept up-to-date!

Remember! Restoration doesn't happen overnight Crossing upgrades will be done over time.