# Zouti estanda konsepsyon RMAT pou rezistans klima

Apèsi sou lekòl la Jen 2024



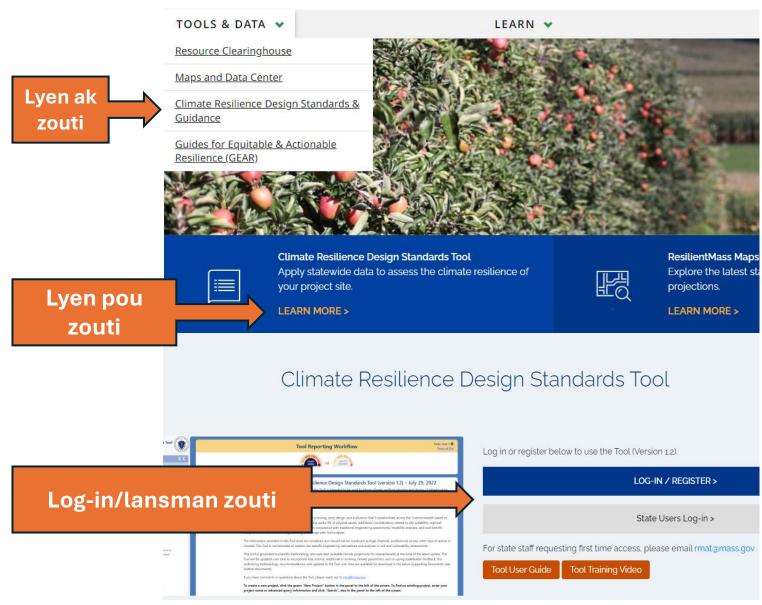




# Objektif Zouti yo:

- Fè analiz preliminè rezistans klimatik pi lajman aksesib
- Enfòme "klima entelijan" planifikasyon kapital, konsepsyon pwojè ak akizisyon
- Bay rekòmandasyon ki baze sou itilizasyon ki konsistan nan done klima eta a
- Bay yon zouti sipò planifikasyon ak konsepsyon inifye ajans leta yo ka itilize pou administre pwogram sibvansyon yo
- Bay enfòmasyon ki konsistan pou minisipalite yo òganize sou resilient.mass.gov



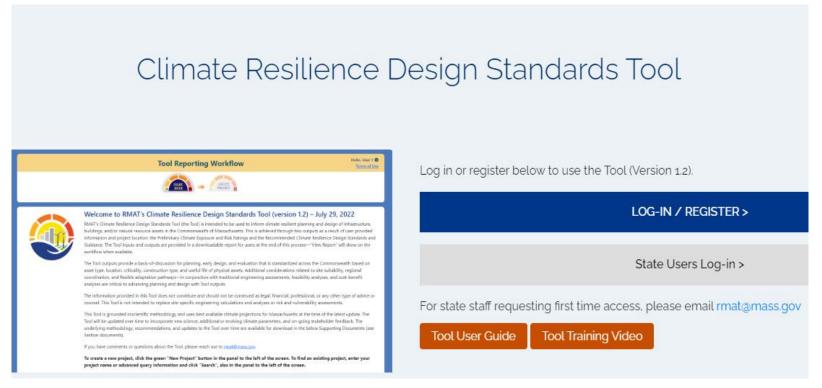


https://resilient.mass.gov/

### Lè pou itilize zouti sa a:

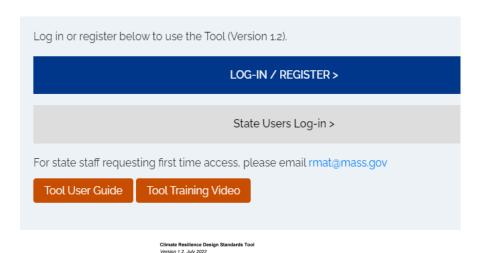
Rezilta Zouti yo bay yon <u>baz diskisyon</u> pou planifikasyon, konsepsyon bonè, ak evalyasyon ki <u>estandadize atravè Commonwealth la</u> ki baze sou kalite byen, kote, kritik, kalite konstriksyon, ak lavi itil nan byen fizik.

- Planifikasyon pwojè, konsepsyon ak akizisyon
- Anplasman pwojè
- Amelyore yon aplikasyon sibvansyon leta



https://resilient.mass.gov/rmat home/designstandards/

### Resous kle ki disponib:



Gid itilizatè

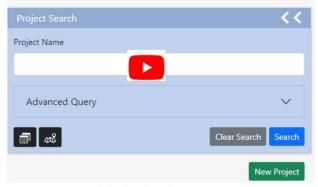
1.0. How to Use this Document. Introduction to the Tool TOOL FUNCTIONALITY AND FEATURES.







Videvo <u>fòmasyon</u>



Guidance and Best Practices

The Climate Resilience Design Guidance provides general design guidance to consider while implementing resilience principles that are not specific to project type or climate hazards, and are illustrated through exam the Guidance considerations and document decision making throughout the planning process.

**Guidance and Best Practices PDF** 

Additional forms include:

- Site Suitability
- Regional Coordination
- Flexible Adaptation Pathways

Gid pou konsepsyon rezistans klimatik ak pi bon pratik

Table 11	Climate	Resilience	Design	Guidance	Rest	Practices

	Considerations	Best Practice			
	Site Suitability (SS)	Reduce exposure to climate hazards     Mitigate adverse climate impacts and provide benefits     Protect, conserve, and restore critical natural resources on-site and off-site			
>	Regional Coordination (RC)	<ol> <li>Assess regional context of vulnerability</li> <li>Evaluate impacts beyond site-specific design</li> <li>Optimize capital investment opportunities</li> <li>Prioritize services and assets that serve vulnerable populations</li> </ol>			
	Flexible Adaptation Pathways (AP)	Embed future capacity and design for uncertainty     Design for incremental change     Encourage climate mitigation and other co-benefits     Prioritize nature-based solutions     Prepare for current and future operational and maintenance needs			

#### Dokimantasyon ak fòmasyon pou antre done teknik:

- Massachusetts Coast Flood Risk Model (MC-FRM) FAQ (April 6, 2022)
- Massachusetts Coast Flood Riks Model (MC-FRM) Online Trainings (April-May 2023)
- EEA's Climate and Hydrologic Risk Project Weather Generator Technical Document (April, 2022)
- EEA's Climate and Hydrologic Risk Project IDF Curves Technical Document (December, 2021)

https://resilient.mass.gov/rmat home/designstandards/

### Kòmanse

#### Konekte nan:

https://resilient.mass.gov/rmat\_home/designstandards/

Itilizatè ekstèn yo dwe swiv sòsye enskri pou aksè premye fwa

Itilizatè Eta yo ta dwe mande pou premye fwa aksè nan <a href="mailto:rmat@mass.gov">rmat@mass.gov</a>

\*Tan adisyonèl nesesè pou nouvo kont zouti ak @dot.state.ma.us adrès imèl

Rechèch pou pwojè ki egziste deja,

**OSWA** 

Klike sou "Nouvo Pwojè" Komanse

#### Climate Resilience Design Standards Tool Log in or register below to use the Tool (Version 1.2). Koneksyon Ekstèn LOG-IN / REGISTER > State Users Log-in > **Eta Koneksyon** For state staff requesting first time access, please email rmat@mass.gov **Tool User Guide Tool Training Video Climate Resilience Design Standards Tool Resilient MA Action Team Project Search** Project Name Advanced Query Rechèch

Nouvo

### Antre pwojè

#### **Tool Reporting Workflow**

Desen

zouti

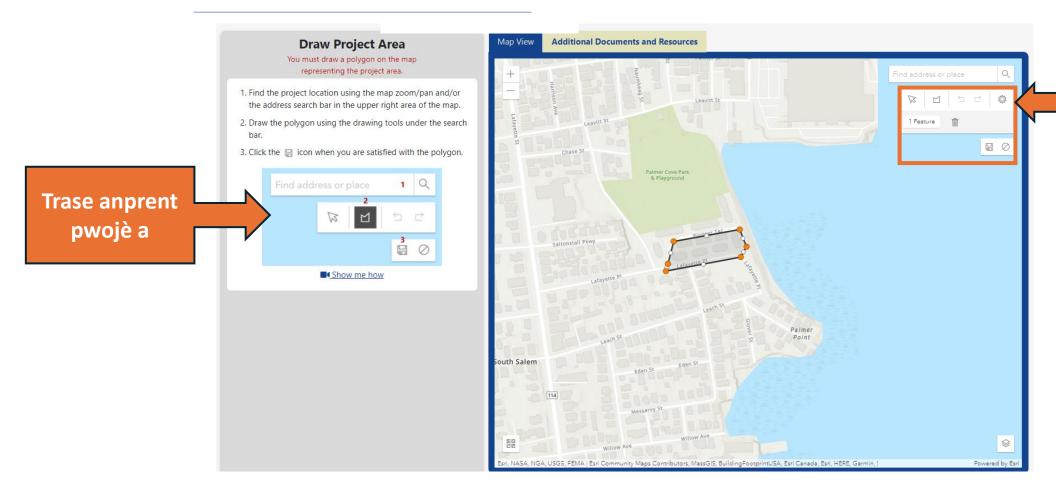








#### **Project Located**



### Antre pwojè

#### **Tool Reporting Workflow**





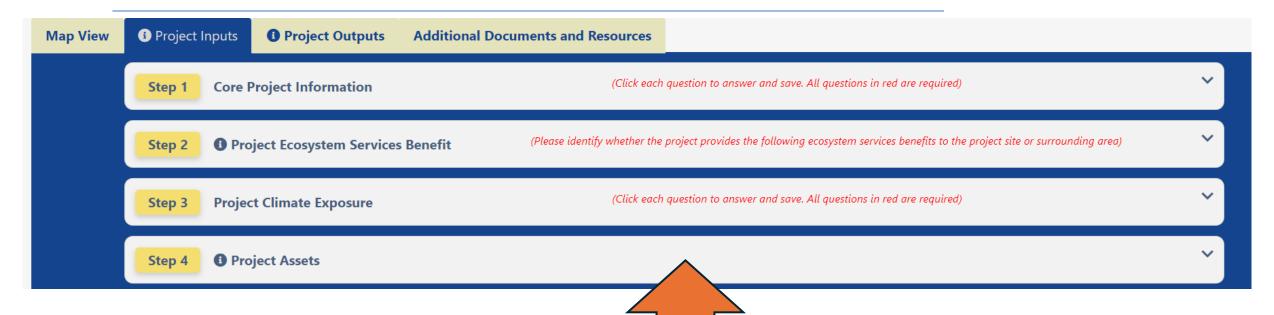






#### **Project Located**

#### **Missing Information**



#### Reponn kesyon opinyon pou kat etap:

- 1. Enfòmasyon pratik
- 2. Benefis anviwònman pwojè a
- 3. Istwa ekspoze a danje
- 4. Byen enfòmasyon espesifik

### Antre pwojè

#### **Tool Reporting Workflow**

















**Project Located** 

**Inputs Complete** 

Dewoulman travay la ogmante yon fwa done yo te antre

Provides flood protection through green infrastructure or nature-based solutions

Provides storm damage mitigation No
Provides groundwater recharge No
Protects public water supply No

i Filters stormwater N

Improves water quality No

1 Promotes decarbonization Yes

Enables carbon sequestration Yes

Provides oxygen production No

1 Improves air quality No

Prevents pollution Yes

Remediates existing sources of pollution No

Protects fisheries, wildlife, and plant habitat

Protects land containing shellfish

Gid (i)

Provides pollination

Provides recreation No

Step 3 Project Climate Exposure

3yèm ETAP: Istwa ekspoze danje

1 Does the project site have a history of coastal flooding? Yes

① Does the project site have a history of flooding during extreme precipitation No events (unrelated to water/sewer damages)?

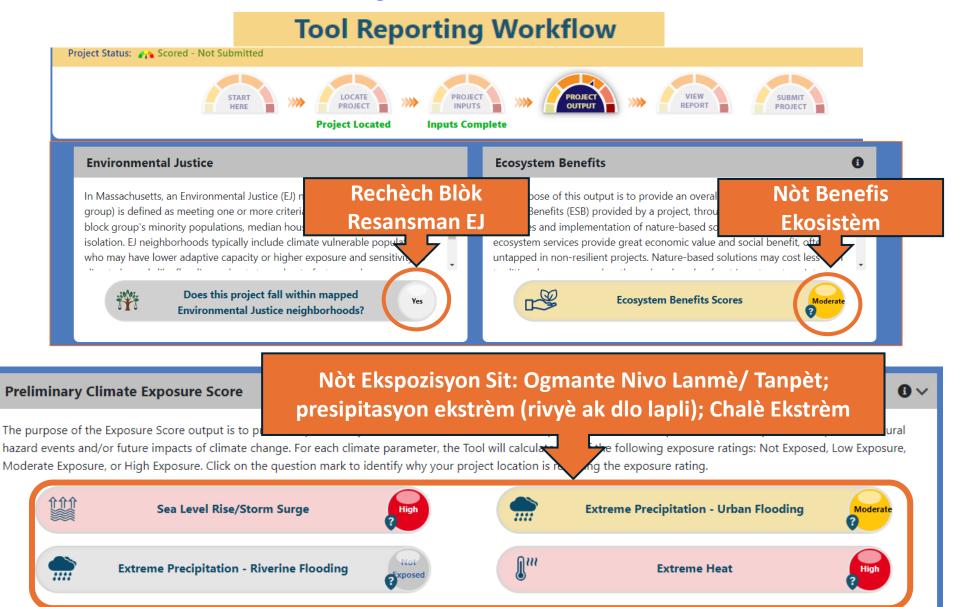
1 Does the project result in a net increase in impervious area of the site? No

1 Does the project site have a history of riverine flooding? No

Are existing trees being removed as part of the proposed project?

4yèm ETAP: Enfòmasyon espesifik atif yo ■ Building/Facility Selected Asset: UserGuide Building Residential building - Public Housing IserGuide Building 15 Useful Life: 15 ♠ Infrastructure N/A Identify the length of time the asset can be Building must be accessible/operable at all times, even during natural hazard event inaccessible/inoperable without significant consequences. Impacts would be limited to local area and/or municipality 1 Identify the geographic area directly affected by ✓ Natural Resources permanent loss or significant inoperability of the building/facility. N/A 1 Identify the population directly served that would be Less than 1,000 people affected by the permanent loss of use or inoperability of

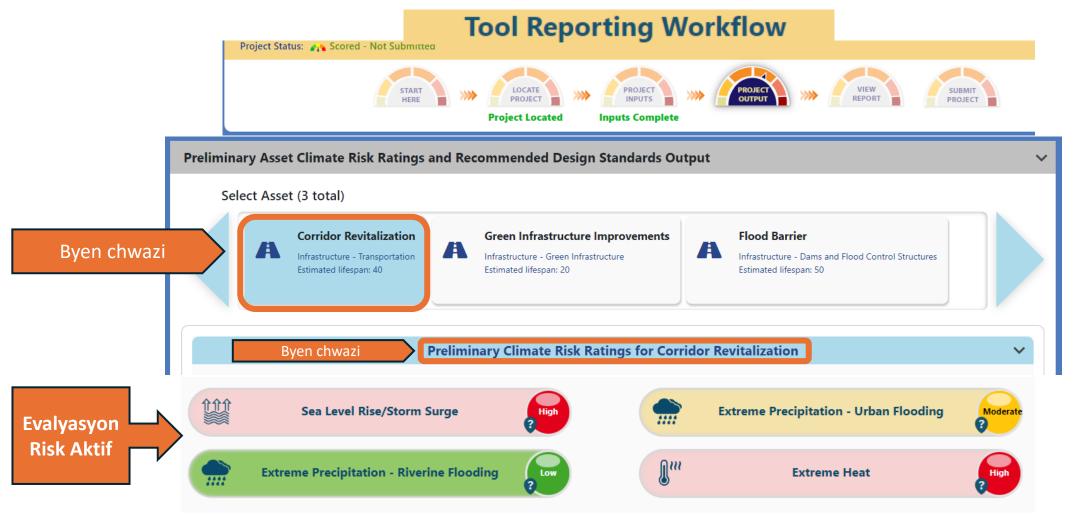
### Rezilta: Nòt Nivo Pwojè



### Rezilta: Nòt Nivo Pwojè



### Sòti: Evalyasyon risk klima aktif yo

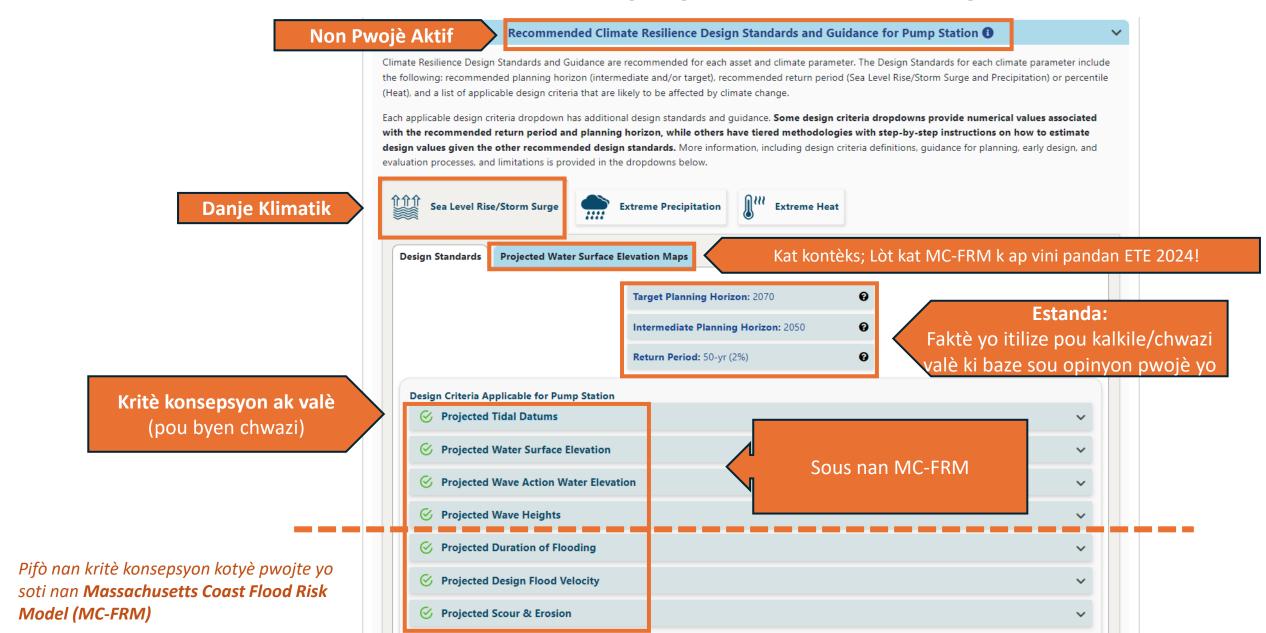


Pwojè zouti ka akomode plizyè byen

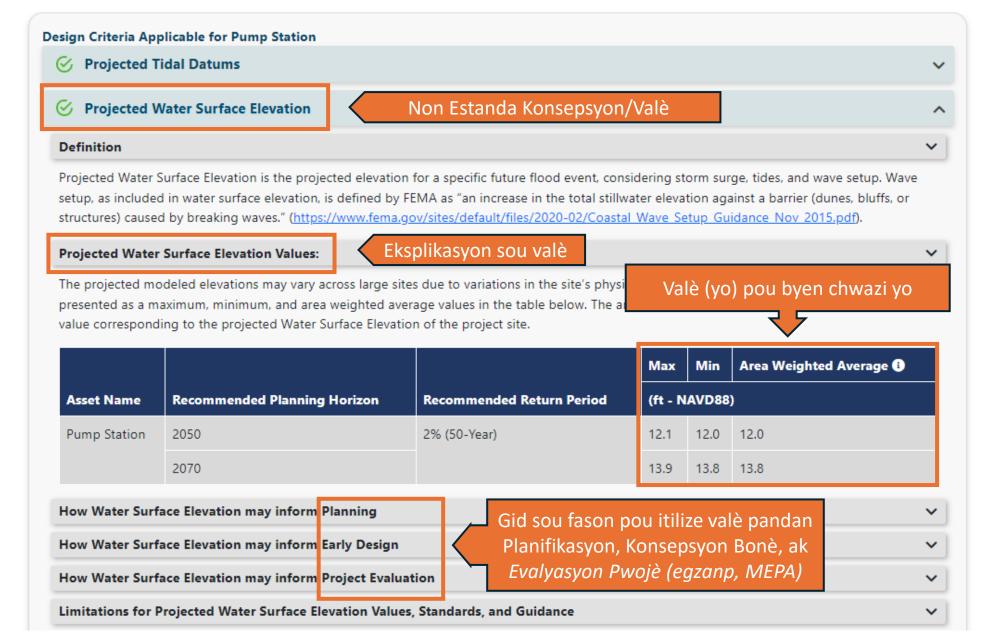
Pral resevwa **risk**evalyasyon klimatik
pou **chak byen** ki te
antre

**REMAK:** Pandan li posib pou jwenn yon nòt **pwojè** "pa ekspoze" pou "Ogmantasyon Nivo Lanmè/Vag Tanpèt" oswa "Presipasyon Ekstrèm - Inondasyon Rivyè" paske li depann jeyografikman, zouti a ap toujou bay yon **nòt risk** (enferyè).

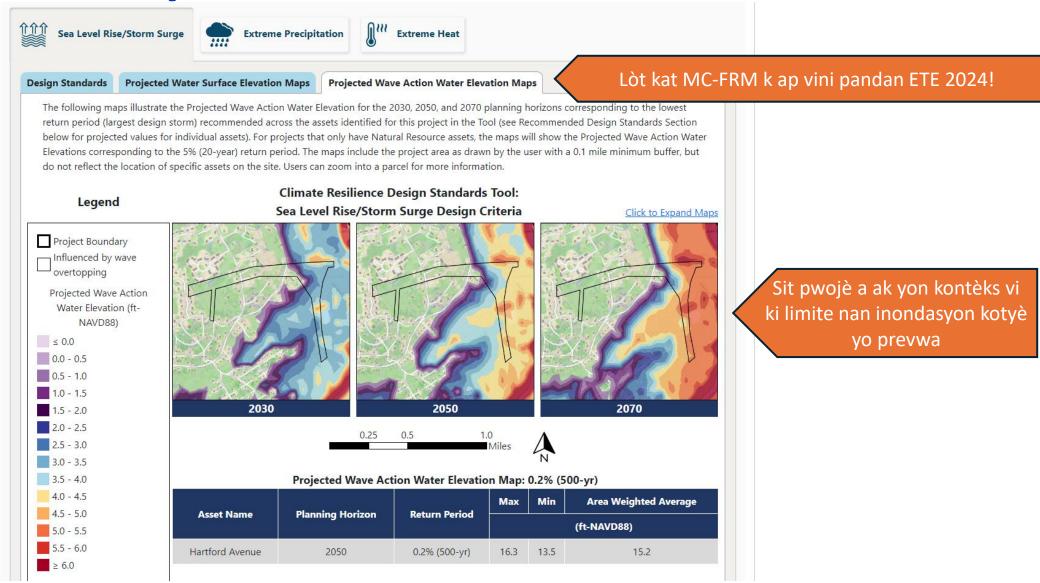
### Rezilta: Estanda/Kritè Konsepsyon (Inondasyon Kòt)



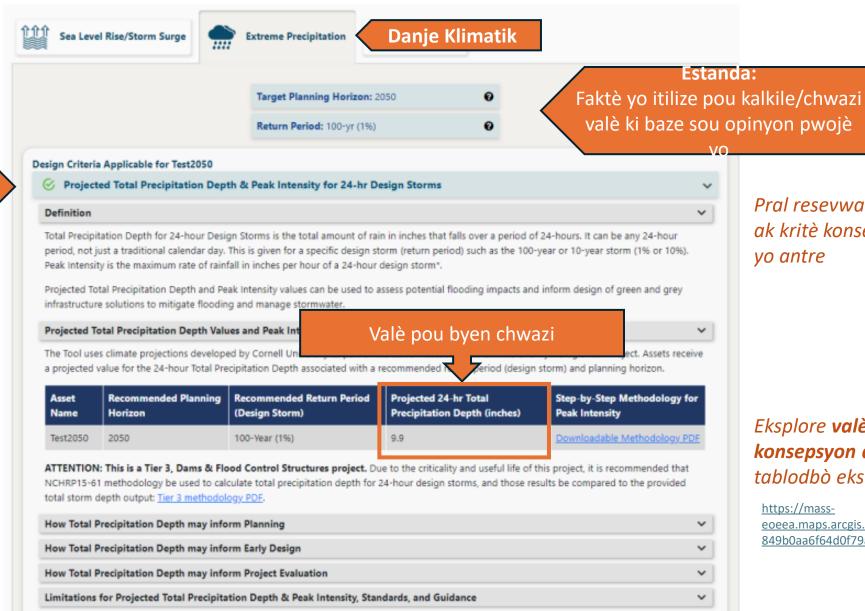
### Rezilta: Konsey Valè Konsepsyon (Inondasyon Kòt)



### Sòti: Kat Inondasyon Kòt



### Sòti: Estanda/Kritè Konsepsyon (Presipasyon)



Kritè konsepsyon ak

valè

(pou byen chwazi)

Pral resevwa estanda ki rekòmande ak kritè konsepsyon pou chak byen vo antre

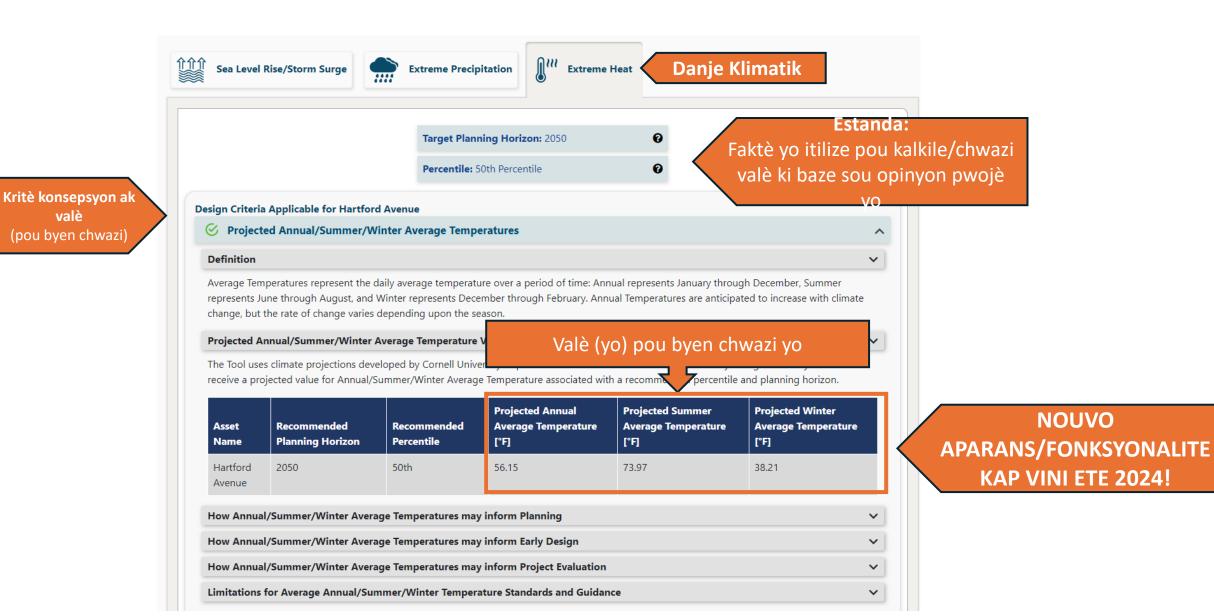
Eksplore valè presipitasyon tanpèt konsepsyon adisyonèl sou tablodbò ekstèn:

#### https://mass-

eoeea.maps.arcgis.com/apps/dashboards/2e8534bc2a7 849b0aa6f64d0f79a8937

### Sòti: Estanda/Kritè konsepsyon (tanperati)

valè



### Telechaje Rapò Pwojè a

Gade paj Rapò a

Afiche rezime rapò a sou View Report paj pwosesis travay

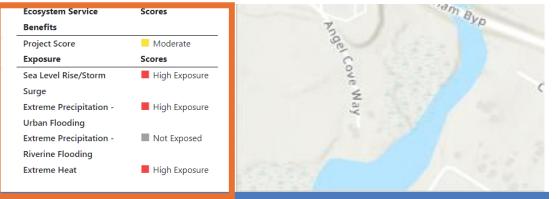
**Telechaje** rapò pwojè a sou fòma PDF Klike sou "Soumèt" rapò

**Telechaje/anekse** fichye PDF nan pòtal sibvansyon respektif/depoze MEPA

PROJECT PROJECT START REPORT PROJECT **Project Located** Inputs Complete **RMAT Climate Resilience Design Standards Tool Project Report EJD TEst** Date Created Egzanp Pwojè Created By: RMATRepor Download Telechaje

Nòt konplè ekspozisyon sit ov éiowa

Agawam River



Evalyasyon Risk Aktif (pou chak byen)

**Asset Preliminary Climate Risk Rating** Number of Assets: 3 Summary Asset Risk Sea Level **Extreme Heat** Extreme Extreme Rise/Storm Surge Precipitation -Precipitation -**Urban Flooding** Riverine Flooding Aktif A Aktif B High Risk Agawam High Risk High Risk High Risk Cranberr High Risk High Risk — Natural Resource project assets do not receive a preliminary climate risk rating.

### Soumèt Rapò Pwojè



#### SUBMIT PROJECT

#### This project has not been submitted

Once you have answered all Project Input questions and reviewed your Project Outputs and Report, you are ready to submit your project. Until submitted, you may continue to edit the project inputs.

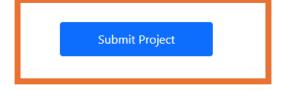
Submission is not required to view Project Outputs or download a Report (available on "View Report" tab), but may be requested in accordance with guidelines from grant programs, or state planning or review processes.

Only submitted projects are searchable and accessible to Commonwealth administrators.

Once you click "Submit Project", project information will be saved, and the "Download Report" icon will appear to download the latest report version. You are not able to edit your project information once you click Submit.

Klike sou **"Soumèt"** rapò

Soumèt



### Zouti vèsyon istwa

#### Zouti Beta (avril 2021)

• MVP ak Massworks te mande zouti rapò nan aplikasyon pou sibvansyon

#### Vèsyon 1.0 (fevriye 2022)

- Mizajou ekspozisyon klimatik
- Mizajou benefis sèvis ekosistèm yo
- Lòt konsèy nan zouti

#### Vèsyon 1.1 (avril 2022)

- Rezilta MC-FRM Nivo 2 (tablo dinamik pou kritè konsepsyon kotyè ki aplikab yo)
- Pwojè Risk idwolojik klimatik MA (tablo dinamik pou kritè konsepsyon presipitasyon ekstrèm ki aplikab)

#### Vèsyon 1.2 (Jiyè 2022)

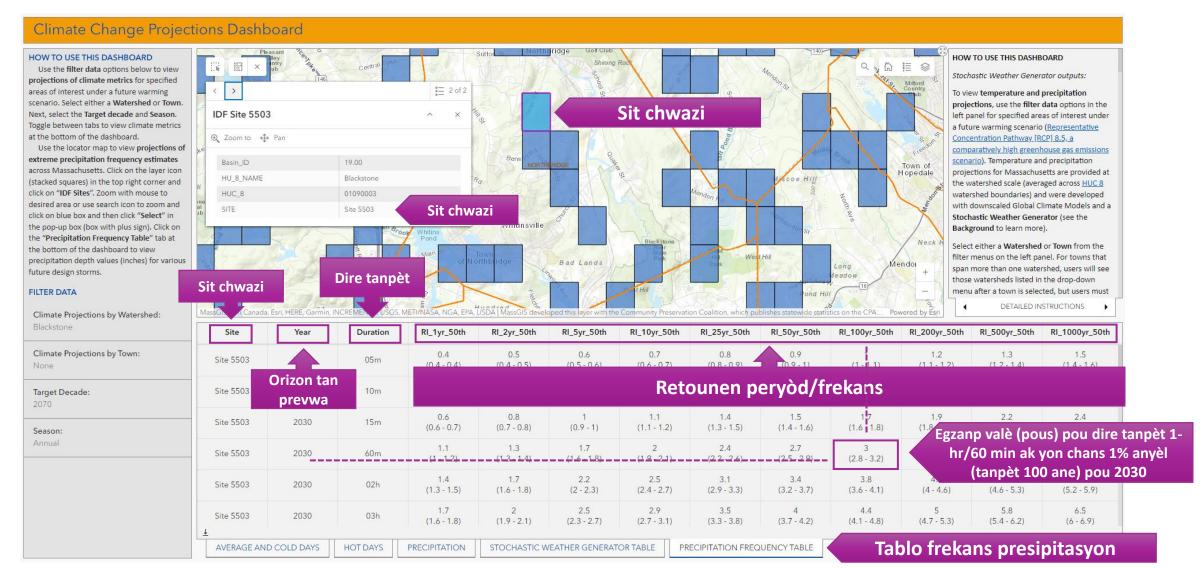
• MC-FRM Pwojete Kat Elevasyon Sifas Dlo (koòdone entèaktif nan zouti ak kat enprime nan rapò pwojè)

#### Vèsyon 1.3 (2024) - an pwogrè

- Mizajou nan estanda konsepsyon tanperati ( ajoute valè kalkile nan koòdone zouti)
- Lòt kat MC-FRM ( Kalkil nivo dlo akòz aksyon vag )
- Koreksyon ensèk

### Resous ki gen rapò:

## Valè presipitasyon ki enfòme sou klima (Entansite-Dire-Frekans)



### Resous ki gen rapò:

Modèl Risk Inondasyon Kòt Massachusetts (Massachusetts Coast Flood Risk Model, MC-FRM)

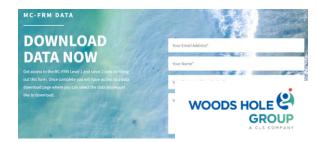
Videyo fòmasyon

2:29:42

2:19:53



Telechaje Paj Done



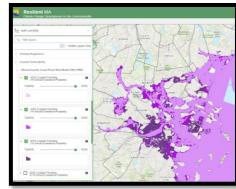
**Espektatè Done Eta yo** 



Done Viewer MORIS CZM



Ogmantasyon nivo Łanmè CZM a ak Viewer inondasyon kotyè vo



ResilientMass Climate & Hazards Viewer



## ResilientMass

Climate Adaption Clearinghouse for the Commonwealth

Kontakte <a href="mass.gov">rmat@mass.gov</a> pou nenpòt kesyon!

\*NÒT: Pa gen okenn anplwaye aplentan devwe pou sipòte pwoblèm teknik ki gen rapò ak zouti a, kidonk, tanpri pèmèt omwen twa a senk jou ouvrab pou rezoud pwoblèm yo.