ANALYSIS OF SURVEY RESPONSES FROM CLIMATE CHANGE RESILIENCY STRATEGY OUTREACH

CLIMATE CHANGE RESILIENCY STRATEGY & COASTAL RESILIENCY PLAN

June 10, 2020
INFORMATION ON PARTICIPANTS

Participants

TYPES OF ORGANIZATIONS THAT/participated (Question 18)

- Non-profit Organization: 25.2%
- Regional/County/Municipal Government: 20.0%
- Business: 15.5%
- University/College: 12.3%
- State Agency: 11.0%
- Other: 10.3%
- Federal Agency: 5.8%

TOP 5 INDUSTRIES THAT/participated (Question 17)

1. Environmental/Ecological (27%, 42)
2. Government/Public Administration (19%, 29)
3. Planning/Engineering/Technical Services (14%, 22)
4. Other (14%, 21)
5. Academic/Education (12%, 19)

72% of Participants Deal with Resiliency or Climate Change in their Job/Occupation. (Question 1)
LOCATION & CLIMATE CHANGE EFFECTS

LOCATION OF PARTICIPANTS
(Question 19)

- Northwest Region: 20%
- Central Region: 28.4%
- Shore Region: 34.2%
- South Region: 16.8%
- Outside New Jersey: 8.4%

TOP 3 CONCERNS REGARDING CLIMATE CHANGE EFFECTS, BY REGION
(Question 3 & 19)

<table>
<thead>
<tr>
<th></th>
<th>Northwest</th>
<th>Northeast</th>
<th>Central</th>
<th>Shore</th>
<th>South</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Precipitation/Storms</td>
<td>Precipitation/Storms</td>
<td>Precipitation/Storms</td>
<td>Sea-level Rise</td>
<td>Sea-level Rise</td>
</tr>
<tr>
<td>2</td>
<td>Extreme Temperatures</td>
<td>Sea-level Rise</td>
<td>Sea-level Rise</td>
<td>Precipitation/Storms</td>
<td>Extreme Temperatures</td>
</tr>
<tr>
<td>3</td>
<td>Sea-level Rise &amp; Water Quality</td>
<td>Extreme Temperatures</td>
<td>Water Quality</td>
<td>Extreme Temperatures</td>
<td>Air Quality &amp; Water Quality</td>
</tr>
</tbody>
</table>

TOP 6 CONCERNS REGARDING CLIMATE CHANGE EFFECTS
(Question 3)

1. Precipitation/Storms
2. Sea-level Rise
3. Water Quality
4. Extreme Temperature
5. Ocean Acidification
6. Air Quality
TOP CONCERNS REGARDING CLIMATE CHANGE IMPACTS (Question 4)

1. Ecosystems & Wildlife
2. Oceans & Marine Life
3. Health & Well-being
4. Agriculture & Food Supply
5. Coastal Communities
6. Socially Populations & Equity
7. Infrastructure

90% of Participants consider themselves either Extremely Informed or Moderately Informed. (Question 2)

TOP 3 CONCERNS OF CLIMATE CHANGE IMPACTS, BY LEVEL OF KNOWLEDGE (Question 2 & 4)

<table>
<thead>
<tr>
<th>Consider Themselves Extremely Informed</th>
<th>Consider Themselves Moderately Informed</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Ecosystems/Wildlife</td>
<td>Ecosystems/Wildlife</td>
</tr>
<tr>
<td>2. Coastal Communities &amp; Socially Vulnerable Populations/Equity</td>
<td>Oceans/Marine Species</td>
</tr>
<tr>
<td>3. Health and Well-being &amp; Oceans/Marine Species</td>
<td>Health/Well-being</td>
</tr>
</tbody>
</table>
Participants overwhelmingly (70%) prefer to receive information about State activities via E-mail. (Question 16)

The more informed a participant consider themselves in climate change effects, the more likely they view climate change/risk communication campaigns as a top priority for the state. (Question 2 & 5)

Participants overwhelmingly (70%) prefer to receive information about State activities via E-mail. (Question 16)

Participant’s second choice to receive information about State activities is through Agency websites. (Question 16)

95.8% of participants support the State developing more climate change/risk communication campaigns. (Question 5)

TOP 5 CLIMATE CHANGE EFFECTS PARTICIPANTS WANT TO LEARN MORE ABOUT (Question 6)

1. Precipitation/Storms
2. Sea-level Rise/Coastal Flooding
3. Water Quality
4. Extreme Temperatures
5. Air Quality
**PARTICIPANTS PREFERRED ACTIONS & STRATEGIES**

### Climate Resilience Actions

**ACTIONS PARTICIPANTS WANT TO SEE**

**MORE OF IN THE STATE** *(Question 7)*

1. Incentivize Green Infrastructure/Nature-based Solutions
2. Preserve Natural Lands
3. Regulate At-Risk Buildings/Development
4. Support Vulnerable Populations
5. Pilot Innovative Solutions

**ACTIONS PARTICIPANTS WANT TO SEE**

**LESS OF IN THE STATE** *(Question 7)*

1. Elevate/protect Existing Development

### Coastal Resilience Strategies

**STRATEGIES PARTICIPANTS WANT TO SEE**

**MORE OF BY YEAR 2050** *(Question 12)*

1. Marsh Restoration and Migration
2. Living Shorelines
3. Buyouts or Managed Retreat
4. Infrastructure Projects
5. Beach & Dune Nourishment

**STRATEGIES PARTICIPATES WANT TO SEE**

**LESS OF BY YEAR 2050** *(Question 13)*

1. Oceanfront Seawalls
2. Bulkheads Along Back Bays, Rivers, or Estuaries
3. Home Elevations
4. Road Elevations
5. Beach & Dune Nourishment
## PREFERRED ACTION/STRATEGY BY ORGANIZATION

(Questions 18 & 7 & 12)

<table>
<thead>
<tr>
<th>Organization</th>
<th>Climate Resilience Actions</th>
<th>Coastal Resilience Strategies</th>
</tr>
</thead>
<tbody>
<tr>
<td>University/College</td>
<td>Support Vulnerable Populations During/After Crisis</td>
<td>Marsh Restoration &amp; Migration</td>
</tr>
<tr>
<td>~18 participants</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Business</td>
<td>Preserve Natural Lands</td>
<td>Marsh Restoration &amp; Migration</td>
</tr>
<tr>
<td>~24 participants</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Non-Profits</td>
<td>Incentivize Green Infrastructure/ Nature-based Solutions</td>
<td>Living Shorelines</td>
</tr>
<tr>
<td>~39 participants</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Local Government</td>
<td>Incentivize Green Infrastructure/ Nature-based Solutions</td>
<td>Living Shorelines</td>
</tr>
<tr>
<td>~18 participants</td>
<td></td>
<td></td>
</tr>
<tr>
<td>State Agency</td>
<td>Incentivize Green Infrastructure/ Nature-based Solutions &amp; Preserve Natural Lands</td>
<td>Marsh Restoration &amp; Migration</td>
</tr>
<tr>
<td>~18 participants</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Federal Agency</td>
<td>Incentivize Green Infrastructure/ Nature-based Solutions</td>
<td>Marsh Restoration &amp; Migration</td>
</tr>
<tr>
<td>~9 participants</td>
<td></td>
<td></td>
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</tbody>
</table>
## Lowest Priority Action/Strategy by Organization

(Questions 18 & 7 & 13)

<table>
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<th>Climate Resilience Actions</th>
<th>Coastal Resilience Strategies</th>
</tr>
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<tbody>
<tr>
<td>University/College</td>
<td>Elevate/Protect Existing Development</td>
<td>Oceanfront/Seawalls</td>
</tr>
<tr>
<td>~18 participants</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Business</td>
<td>Elevate/Protect Existing Development &amp; Relocate structures/infrastructure</td>
<td>Oceanfront/Seawalls</td>
</tr>
<tr>
<td>~24 participants</td>
<td></td>
<td></td>
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<td>Non-Profits</td>
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<td>Local Government</td>
<td>Elevate/Protect Existing Development</td>
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<td>~18 participants</td>
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<tr>
<td>Federal Agency</td>
<td>Elevate/Protect Existing Development</td>
<td>Oceanfront/Seawalls</td>
</tr>
<tr>
<td>~9 participants</td>
<td></td>
<td></td>
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</tbody>
</table>
TOP STRATEGIES FOR THE STATE TO BEST SUPPORT MUNICIPAL CLIMATE RESILIENCE ACTION (Question 8)

RANKED HIGHEST TO LOWEST PRIORITY:
1. Funding/Financing
2. Guidance Development
3. Direct Assistance
4. Planning Assistance
5. Training Programs
6. Tool Development
7. Update Local Authorities

TOP FUNDING/FINANCING STRATEGIES FOR THE STATE TO EXPLORE (Question 14)

RANKED HIGHEST TO LOWEST PRIORITY:
1. Leverage Federal Spending Programs
2. Encourage Private Sector Cost-sharing
3. Create New Targeted Tax and/or Fee Programs
4. Develop Innovative Bond Measures
5. Direct Appropriations
6. Update State/Local Cost-sharing
7. Remove Municipal Cap
## VIEWS OF LOCAL PRIORITY, FUNDING, & BARRIERS
*(Questions 18 & 10 & 13)*

<table>
<thead>
<tr>
<th>Organization</th>
<th>Top State Strategy to support Municipal Climate Resilience</th>
<th>Top Funding Strategy for the State to Explore</th>
<th>Greatest Perceived Barrier to Enhancing Resiliency</th>
</tr>
</thead>
<tbody>
<tr>
<td>University/College</td>
<td>Guidance Development</td>
<td>Creating New Targeted Tax and/or Fee Programs</td>
<td>Lack of Political Will</td>
</tr>
<tr>
<td>~18 participants</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Business</td>
<td>Funding/Financing</td>
<td>Private Sector Cost-Sharing</td>
<td>Lack of Political Will</td>
</tr>
<tr>
<td>~24 participants</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Non-Profits</td>
<td>Funding/Financing</td>
<td>Leverage Federal Spending Programs</td>
<td>Lack of Political Will</td>
</tr>
<tr>
<td>~39 participants</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Local Government</td>
<td>Funding/Financing</td>
<td>Creating New Targeted Tax and/or Fee Programs</td>
<td>Lack of Political Will</td>
</tr>
<tr>
<td>~18 participants</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>State Agency</td>
<td>Funding/Financing</td>
<td>Private Sector Cost-Sharing</td>
<td>Lack of Political Will</td>
</tr>
<tr>
<td>~18 participants</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Federal Agency</td>
<td>Guidance Development</td>
<td>No Consensus</td>
<td>Lack of Business or Industry Support</td>
</tr>
<tr>
<td>~9 participants</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
NEW JERSEY’S RESILIENCE STRATEGIES SHOULD: (Question 11)

- Be Science-based
- Protect Public Health and Safety
- Share Responsibility Across Agencies/sectors
- Stimulate Innovation
- Align with Greenhouse Gas Reduction Goals
- Prioritize Socially Vulnerable Populations
- Other

Highlights of Other Responses Identified by Participants:
- Involve the Community in Planning (6 related comments)
- Coordinate Efforts Across Governments (5 related comments)
- Prioritize Ecological Concerns/Solutions (4 related comments)
- Meet Specific Targets (3 related comments)
WHAT ONE ACTION DO YOU THINK THE STATE NEEDS TO TAKE IN THE NEXT 5 YEARS TO INCREASE THE OVERALL RESILIENCE OF NEW JERSEY TO CLIMATE CHANGE? (Question 9)

Highlights of Trends Among Free Responses

“Limit/de-incentivize building in flood zones.”
29 Related Comments

“Improve collaborative, cross-jurisdictional resilience planning.”
24 Related Comments

“Funding for resilience planning and implementation at the local level.”
21 Related Comments

“Create policies and regulations that move future generations to safer locations.”
15 Related Comments

“Address fossil fuel emissions.”
14 Related Comments
Having a plan is great, but adequate appropriations and real political will is needed…

Cross-agency alignment of priorities is imperative, as is resurrecting and strengthening the state plan.

There needs to be a (standardized) way of measuring how resilient the state (and individual counties) is, so that we can set goals and track progress over time.

Having a plan is great, but adequate appropriations and real political will is needed…

DO YOU HAVE ANY ADDITIONAL COMMENTS RELATED TO THE STATE'S EFFORTS TO ENHANCE RESILIENCE IN RESPONSE TO CLIMATE CHANGE? (Question 15)

Highlights of Trends Among Free Responses