Q1: How important will issues related to HABITAT CHANGE (degradation, loss, restoration, etc.) be to your program over the next five years?

	Very Important	Important	Not Very Important	Count
All Gulf of Maine Respondents	**67%**	**27%**	**6%**	**63**
Country				
United States	76%	18%	5%	38
Canada	52%	40%	8%	25
State				
MA	75%	19%	6%	16
ME	76%	18%	6%	17
NH	80%	20%	0%	5
NS	50%	36%	14%	14
NB	55%	45%	0%	11
Program				
Coastal Mgmt	61%	36%	3%	33
NERR	100%	0%	0%	5
NEP	83%	17%	0%	6
ASFPM	0%	0%	100%	2
ASWM	100%	0%	0%	2
ASIWPCA	100%	0%	0%	1
IFMC	100%	0%	0%	3
Other	55%	36%	9%	11
Location				
HQ / Main Office	66%	28%	6%	53
Field Office	70%	20%	10%	10
Position				
Program Manager	78%	11%	11%	18
Management Staff	67%	33%	0%	6
Technical Staff	63%	33%	4%	27
Policy Staff	40%	60%	0%	5
Advisory Committee	50%	25%	25%	4
Other	100%	0%	0%	3

Q1A: Select no more than THREE of the following HABITAT TYPES most important to your program when considering habitat change over the next five years. (Multiple responses possible. Percentages sum to more than 100%.)

1	Uplands (including riparian/special habitats)	7	Shellfish beds/reefs
2	Freshwater wetlands	8	Barrier beaches/islands
3	Coral reefs	9	Rocky shorelines (bluffs/intertidal)
4	Salt marshes	10	Engineered shorelines
5	Seagrass beds	11	Artificial reefs
6	Mangroves	12	Other

	1	2	3	4	5	7	8	9	10	12	Count
All Gulf of Maine Respondents	**31%**	**31%**	**2%**	**83%**	**34%**	**44%**	**15%**	**27%**	**3%**	**19%**	**59**
Country											
United States	36%	33%	0%	83%	53%	47%	17%	17%	3%	8%	36
Canada	22%	26%	4%	83%	4%	39%	13%	43%	4%	35%	23
State											
MA	7%	13%	0%	67%	93%	67%	20%	20%	0%	13%	15
ME	56%	44%	0%	94%	25%	31%	19%	19%	6%	6%	16
NH	60%	60%	0%	100%	20%	40%	0%	0%	0%	0%	5
NS	42%	42%	8%	92%	0%	25%	0%	25%	8%	33%	12
NB	0%	9%	0%	73%	9%	55%	27%	64%	0%	36%	11
Program											
Coastal Mgmt	31%	28%	0%	88%	31%	44%	19%	28%	6%	13%	32
NERR	100%	40%	0%	100%	20%	20%	20%	0%	0%	0%	5
NEP	17%	50%	0%	83%	83%	67%	0%	0%	0%	0%	6
ASWM	0%	100%	0%	50%	0%	0%	50%	50%	0%	0%	2
ASIWPCA	0%	0%	0%	100%	100%	100%	0%	0%	0%	0%	1
IFMC	0%	0%	0%	33%	100%	100%	0%	33%	0%	33%	3
Other	20%	20%	10%	80%	0%	30%	10%	50%	0%	60%	10
Location											
HQ / Main Office	36%	34%	0%	86%	30%	38%	18%	26%	4%	12%	50
Field Office	0%	11%	11%	67%	56%	78%	0%	33%	0%	56%	9
Position											
Program Manager	38%	50%	0%	81%	31%	38%	19%	31%	6%	6%	16
Management Staff	17%	33%	17%	100%	17%	50%	0%	17%	0%	33%	6
Technical Staff	23%	15%	0%	85%	50%	46%	19%	23%	4%	23%	26
Policy Staff	40%	40%	0%	60%	0%	60%	20%	60%	0%	20%	5
Advisory Committee	33%	33%	0%	67%	0%	0%	0%	33%	0%	33%	3
Other	67%	33%	0%	100%	33%	67%	0%	0%	0%	0%	3

Q1B: Select no more than THREE of the following RESEARCH ACTIVITIES that would best help you to address habitat change over the next five years. (Multiple responses possible. Percentages sum to more than 100%.)

1	Cumulative impact assessments	6	Provide ecological characterization
2	Identify indicators of habitat health	7	Valuations of social, ecological, economic factors
3	Identify causes of loss/gain	8	Determine effects of scale on data and analysis
4	Rate of freshwater inflow	9	Effects of human values and choices
5	Evaluate effectiveness of restoration/ protection techniques	10	Other

	1	2	3	5	6	7	8	9	10	Count
All Gulf of Maine Respondents	**63%**	**53%**	**41%**	**44%**	**34%**	**31%**	**5%**	**15%**	**10%**	**59**
Country										
United States	64%	56%	44%	44%	33%	22%	3%	17%	14%	36
Canada	61%	48%	35%	43%	35%	43%	9%	13%	4%	23
State										
MA	73%	53%	47%	33%	47%	13%	7%	7%	20%	15
ME	50%	50%	50%	44%	25%	31%	0%	31%	13%	16
NH	80%	80%	20%	80%	20%	20%	0%	0%	0%	5
NS	58%	42%	42%	50%	33%	25%	17%	8%	8%	12
NB	64%	55%	27%	36%	36%	64%	0%	18%	0%	11
Program										
Coastal Mgmt	72%	50%	34%	53%	28%	25%	3%	13%	16%	32
NERR	20%	40%	0%	40%	60%	60%	20%	60%	0%	5
NEP	50%	83%	67%	33%	33%	33%	0%	0%	0%	6
ASWM	100%	50%	50%	100%	0%	0%	0%	0%	0%	2
ASIWPCA	100%	0%	100%	0%	100%	0%	0%	0%	0%	1
IFMC	67%	67%	67%	33%	67%	0%	0%	0%	0%	3
Other	50%	50%	50%	20%	30%	50%	10%	20%	10%	10
Location										
HQ / Main Office	64%	52%	36%	48%	26%	34%	4%	18%	12%	50
Field Office	56%	56%	67%	22%	78%	11%	11%	0%	0%	9
Position										
Program Manager	69%	69%	38%	44%	44%	19%	6%	13%	0%	16
Management Staff	33%	50%	33%	33%	33%	33%	17%	17%	33%	6
Technical Staff	58%	42%	46%	46%	35%	31%	4%	15%	15%	26
Policy Staff	80%	60%	20%	40%	20%	60%	0%	20%	0%	5
Advisory Committee	67%	33%	33%	33%	33%	67%	0%	33%	0%	3
Other	100%	67%	67%	67%	0%	0%	0%	0%	0%	3

Q1C: Select no more than THREE of the following TYPES OF INFORMATION that would best help you to address habitat change over the next five years. (Multiple responses possible. Percentages sum to more than 100%.)

1 Access, retrieval and analysis of data
2 Trends analysis (rate of loss/gain, success of restoration, etc)
3 Standardized methodologies and reporting
4 Ecological and physical baselines and inventories.
5 State-of-knowledge reports/success stories
6 More geospatial data for GIS (includes maps: e.g.,soils and seamless bathymetry/topo maps)
7 Other

	1	2	3	4	5	6	7	Count
All Gulf of Maine Respondents	**36%**	**69%**	**25%**	**68%**	**32%**	**49%**	**5%**	**59**
Country								
United States	36%	78%	28%	69%	28%	53%	0%	36
Canada	35%	57%	22%	65%	39%	43%	13%	23
State								
MA	33%	73%	47%	73%	13%	60%	0%	15
ME	44%	75%	13%	75%	31%	56%	0%	16
NH	20%	100%	20%	40%	60%	20%	0%	5
NS	25%	75%	17%	50%	50%	42%	17%	12
NB	45%	36%	27%	82%	27%	45%	9%	11
Program								
Coastal Mgmt	25%	69%	28%	69%	31%	56%	6%	32
NERR	20%	80%	0%	80%	20%	100%	0%	5
NEP	33%	83%	33%	67%	33%	33%	0%	6
ASWM	50%	100%	50%	0%	50%	0%	0%	2
ASIWPCA	0%	100%	100%	100%	0%	0%	0%	1
IFMC	67%	33%	0%	100%	33%	67%	0%	3
Other	70%	60%	20%	60%	40%	20%	10%	10
Location								
HQ / Main Office	32%	72%	26%	70%	34%	48%	4%	50
Field Office	56%	56%	22%	56%	22%	56%	11%	9
Position								
Program Manager	38%	69%	31%	63%	25%	63%	0%	16
Management Staff	50%	100%	0%	50%	33%	50%	0%	6
Technical Staff	19%	69%	35%	73%	35%	46%	12%	26
Policy Staff	40%	40%	0%	80%	40%	60%	0%	5
Advisory Committee	67%	33%	33%	67%	67%	0%	0%	3
Other	100%	100%	0%	67%	0%	33%	0%	3

Q1D: 1d. Select ANY of the following CONTINUOUS OBSERVATION AND MONITORING VARIABLES that you consider necessary to help you address habitat change over the next five years. (Multiple responses possible. Percentages sum to more than 100%.)

1	Sea level	9	Organic matter
2	Surface and/or subsurface currents	10	Dissolved inorganic nutrients
3	Surface waves	11	Dissolved oxygen
4	Surface winds	12	Zooplankton species
5	Surface salinity	13	Phytoplankton species
6	Surface temperature	14	Ocean color
7	Light penetration	15	Aerial/satellite imagery
8	Bathymetry/bottom type	16	Other

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Count
All Gulf of Maine Respondents	45%	30%	11%	14%	25%	30%	38%	48%	39%	54%	54%	41%	45%	7%	61%	30%	56
Country																	
United States	51%	26%	11%	11%	29%	23%	37%	54%	31%	49%	54%	40%	43%	6%	69%	29%	35
Canada	33%	38%	10%	19%	19%	43%	38%	38%	52%	62%	52%	43%	48%	10%	48%	33%	21
State																	
MA	33%	20%	7%	7%	13%	20%	47%	53%	27%	47%	53%	33%	33%	0%	53%	20%	15
ME	60%	40%	20%	20%	47%	27%	27%	60%	40%	47%	47%	40%	47%	13%	80%	40%	15
NH	80%	0%	0%	0%	20%	20%	40%	40%	20%	60%	80%	60%	60%	0%	80%	20%	5
NS	55%	27%	9%	27%	18%	55%	36%	36%	36%	45%	45%	27%	27%	18%	55%	45%	11
NB	10%	50%	10%	10%	20%	30%	40%	40%	70%	80%	60%	60%	70%	0%	40%	20%	10
Program																	
Coastal Mgmt	47%	30%	17%	20%	17%	23%	30%	57%	33%	50%	53%	27%	27%	3%	57%	37%	30
NERR	40%	20%	0%	0%	60%	20%	0%	40%	20%	20%	60%	60%	80%	0%	80%	20%	5
NEP	67%	17%	0%	17%	50%	50%	83%	50%	50%	67%	67%	83%	83%	17%	83%	0%	6
ASWM	100%	0%	0%	0%	0%	0%	0%	0%	0%	50%	0%	0%	0%	0%	100%	50%	2
ASIWPCA	0%	0%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	0%	0%	0%	100%	1
IFMC	67%	67%	33%	33%	67%	67%	100%	67%	67%	67%	100%	67%	67%	33%	67%	0%	3
Other	11%	44%	0%	0%	11%	44%	33%	22%	67%	78%	44%	56%	67%	11%	44%	33%	9
Location																	
HQ / Main Office	48%	27%	10%	15%	23%	29%	31%	46%	38%	52%	56%	38%	42%	4%	63%	29%	48
Field Office	25%	50%	13%	13%	38%	38%	75%	63%	50%	63%	38%	63%	63%	25%	50%	38%	8
Position																	
Program Manager	67%	33%	13%	20%	33%	33%	40%	60%	33%	47%	60%	67%	67%	7%	73%	13%	15
Management Staff	33%	17%	0%	0%	33%	33%	33%	17%	33%	50%	17%	50%	50%	17%	67%	50%	6
Technical Staff	36%	24%	12%	12%	24%	32%	40%	52%	44%	52%	56%	32%	36%	4%	48%	44%	25
Policy Staff	60%	60%	20%	20%	0%	0%	20%	40%	40%	60%	40%	20%	20%	0%	60%	0%	5
Advisory Committee	0%	50%	0%	0%	0%	50%	50%	0%	50%	100%	100%	0%	50%	0%	50%	0%	2
Other	33%	33%	0%	33%	33%	33%	33%	67%	33%	67%	67%	33%	33%	33%	100%	33%	3

Q1E: Select no more than THREE of the following IMPROVED TECHNOLOGIES that would best help you to address habitat change over the next five years. (Multiple responses possible. Percentages sum to more than 100%.)

1 Models that predict or simulate
2 High resolution remote sensing
3 Low cost remote sensing platforms to measure change
4 New restoration techniques
5 Rapid ecological assessment and evaluation technology
6 Habitat restoration BMPs
7 Long-term monitoring equipment
8 Other

	1	2	3	4	5	6	7	8	Count
All Gulf of Maine Respondents	43%	40%	47%	24%	55%	33%	47%	9%	58
Country									
United States	**39%**	**50%**	**47%**	**28%**	**47%**	**36%**	**42%**	**8%**	**36**
Canada	**50%**	**23%**	**45%**	**18%**	**68%**	**27%**	**55%**	**9%**	**22**
State									
MA	**40%**	**53%**	**47%**	**20%**	**53%**	**27%**	**40%**	**13%**	**15**
ME	**50%**	**50%**	**50%**	**19%**	**38%**	**44%**	**44%**	**6%**	**16**
NH	**0%**	**40%**	**40%**	**80%**	**60%**	**40%**	**40%**	**0%**	**5**
NS	**36%**	**0%**	**55%**	**27%**	**73%**	**27%**	**64%**	**18%**	**11**
NB	**64%**	**45%**	**36%**	**9%**	**64%**	**27%**	**45%**	**0%**	**11**
Program									
Coastal Mgmt	**48%**	**39%**	**39%**	**23%**	**61%**	**35%**	**42%**	**13%**	**31**
NERR	**60%**	**60%**	**60%**	**0%**	**20%**	**40%**	**60%**	**0%**	**5**
NEP	**17%**	**67%**	**67%**	**33%**	**50%**	**33%**	**33%**	**0%**	**6**
ASWM	**0%**	**0%**	**50%**	**50%**	**100%**	**50%**	**0%**	**0%**	**2**
ASIWPCA	**100%**	**0%**	**100%**	**0%**	**100%**	**0%**	**0%**	**0%**	**1**
IFMC	**67%**	**33%**	**33%**	**33%**	**33%**	**0%**	**100%**	**0%**	**3**
Other	**30%**	**30%**	**50%**	**30%**	**50%**	**30%**	**60%**	**10%**	**10**
Location									
HQ / Main Office	**39%**	**39%**	**45%**	**24%**	**57%**	**39%**	**45%**	**10%**	**49**
Field Office	**67%**	**44%**	**56%**	**22%**	**44%**	**0%**	**56%**	**0%**	**9**
Position									
Program Manager	**50%**	**38%**	**38%**	**25%**	**69%**	**44%**	**31%**	**0%**	**16**
Management Staff	**33%**	**17%**	**33%**	**50%**	**83%**	**33%**	**50%**	**0%**	**6**
Technical Staff	**36%**	**44%**	**48%**	**20%**	**48%**	**24%**	**56%**	**20%**	**25**
Policy Staff	**100%**	**60%**	**60%**	**0%**	**20%**	**20%**	**40%**	**0%**	**5**
Advisory Committee	**33%**	**0%**	**67%**	**33%**	**67%**	**33%**	**67%**	**0%**	**3**
Other	**0%**	**67%**	**67%**	**33%**	**33%**	**67%**	**33%**	**0%**	**3**

Q2: How important will issues related to LAND USE be to your program over the next five years?

	Very important	Important	Not very important	Not relevant	Count
All Gulf of Maine Respondents	**59%**	**30%**	**10%**	**2%**	**63**
Country					
United States	74%	24%	3%	0%	38
Canada	36%	40%	20%	4%	25
State					
MA	63%	38%	0%	0%	16
ME	76%	18%	6%	0%	17
NH	100%	0%	0%	0%	5
NS	36%	36%	21%	7%	14
NB	36%	45%	18%	0%	11
Program					
Coastal Mgmt	48%	42%	6%	3%	33
NERR	100%	0%	0%	0%	5
NEP	100%	0%	0%	0%	6
ASFPM	100%	0%	0%	0%	2
ASWM	100%	0%	0%	0%	2
ASIWPCA	100%	0%	0%	0%	1
IFMC	33%	33%	33%	0%	3
Other	36%	36%	27%	0%	11
Location					
HQ / Main Office	64%	26%	8%	2%	53
Field Office	30%	50%	20%	0%	10
Position					
Program Manager	72%	17%	11%	0%	18
Management Staff	50%	33%	17%	0%	6
Technical Staff	44%	48%	4%	4%	27
Policy Staff	80%	0%	20%	0%	5
Advisory Committee	50%	25%	25%	0%	4
Other	100%	0%	0%	0%	3

Q2A: Select no more than THREE of the following LAND USE ISSUES that you consider most important to address over the next five years. (Multiple responses possible. Percentages sum to more than 100%.)

1 Secure/maintain public access or viewsheds
2 Manage the effects of coastal development (includes build-out and infill potential)
3 Understand the effects of transit patterns on development.
4 Integrate watershed/ecosystem planning at the state and local level
5 Conserve open space and/or natural habitat protection
6 Reduce the impacts of nonpoint source pollution
7 Other

	1	2	3	4	5	6	7	Count
All Gulf of Maine Respondents	9%	77%	4%	68%	67%	56%	9%	57
Country								
United States	11%	76%	5%	59%	78%	49%	8%	37
Canada	5%	80%	0%	85%	45%	70%	10%	20
State								
MA	6%	81%	6%	50%	75%	63%	13%	16
ME	19%	63%	6%	75%	75%	31%	6%	16
NH	0%	100%	0%	40%	100%	60%	0%	5
NS	9%	73%	0%	91%	45%	64%	18%	11
NB	0%	89%	0%	78%	44%	78%	0%	9
Program								
Coastal Mgmt	10%	83%	0%	67%	67%	53%	10%	30
NERR	20%	20%	0%	100%	100%	60%	0%	5
NEP	0%	83%	17%	50%	67%	67%	0%	6
ASFPM	0%	100%	50%	0%	50%	0%	50%	2
ASWM	0%	50%	0%	50%	100%	0%	50%	2
ASIWPCA	0%	100%	0%	100%	0%	100%	0%	1
IFMC	0%	100%	0%	50%	50%	100%	0%	2
Other	11%	78%	0%	89%	56%	67%	0%	9
Location								
HQ / Main Office	10%	75%	4%	69%	69%	52%	8%	48
Field Office	0%	89%	0%	67%	56%	78%	11%	9
Position								
Program Manager	6%	81%	13%	63%	63%	50%	13%	16
Management Staff	17%	67%	0%	67%	67%	67%	0%	6
Technical Staff	8%	80%	0%	68%	72%	56%	8%	25
Policy Staff	25%	100%	0%	100%	50%	25%	0%	4
Advisory Committee	0%	33%	0%	67%	67%	100%	33%	3
Other	0%	67%	0%	67%	67%	67%	0%	3

Q2B: Select no more than THREE of the following RESEARCH ACTIVITIES that would best help you to address your most important land use issues over the next five years. (Multiple responses possible. Percentages sum to more than 100%.)

1 **Identify cumulative effects of development**
2 **Provide socioeconomic cost/benefit analysis of various land use options**
3 **Understand demographic changes and/or cultural influences on development patterns**
4 **Develop indicators that link land use with ecosystem impact**
5 **Quantify impact of land use on water quality (e.g., nutrients and bacteria)**
6 **Develop methodologies to calculate pollutant removal efficiencies (e.g., nutrients and bacteria).**
7 **Identify growth patterns/land use conversion patterns**
8 **Assess low impact development**
9 **Other**

	1	2	3	4	5	6	7	8	9	Count
All Gulf of Maine Respondents	**61%**	**23%**	**11%**	**70%**	**59%**	**27%**	**27%**	**11%**	**4%**	**56**
Country										
United States	**58%**	**19%**	**8%**	**72%**	**64%**	**25%**	**28%**	**14%**	**3%**	**36**
Canada	**65%**	**30%**	**15%**	**65%**	**50%**	**30%**	**25%**	**5%**	**5%**	**20**
State										
MA	**47%**	**20%**	**20%**	**67%**	**73%**	**33%**	**20%**	**13%**	**7%**	**15**
ME	63%	19%	0%	75%	50%	25%	44%	6%	0%	16
NH	**80%**	**20%**	**0%**	**80%**	**80%**	**0%**	**0%**	**40%**	**0%**	**5**
NS	**45%**	**36%**	**9%**	**64%**	**64%**	**27%**	**27%**	**0%**	**9%**	**11**
NB	**89%**	**22%**	**22%**	**67%**	**33%**	**33%**	**22%**	**11%**	**0%**	**9**
Program										
Coastal Mgmt	**62%**	**34%**	**14%**	**66%**	**41%**	**24%**	**28%**	**10%**	**7%**	**29**
NERR	**60%**	**0%**	**0%**	**100%**	**80%**	**40%**	**20%**	**0%**	**0%**	**5**
NEP	**67%**	**0%**	**0%**	**67%**	**100%**	**17%**	**17%**	**33%**	**0%**	**6**
ASFPM	**50%**	**50%**	**0%**	**0%**	**0%**	**0%**	**100%**	**50%**	**0%**	**2**
ASWM	**100%**	**0%**	**50%**	**50%**	**50%**	**0%**	**50%**	**0%**	**0%**	**2**
ASIWPCA	**0%**	**0%**	**0%**	**100%**	**100%**	**100%**	**0%**	**0%**	**0%**	**1**
IFMC	**100%**	**0%**	**0%**	**50%**	**100%**	**50%**	**0%**	**0%**	**0%**	**2**
Other	**44%**	**22%**	**11%**	**89%**	**78%**	**33%**	**22%**	**0%**	**0%**	**9**
Location										
HQ / Main Office	**60%**	**21%**	**11%**	**72%**	**57%**	**28%**	**30%**	**11%**	**4%**	**47**
Field Office	**67%**	**33%**	**11%**	**56%**	**67%**	**22%**	**11%**	**11%**	**0%**	**9**
Position										
Program Manager	**75%**	**25%**	**13%**	**56%**	**38%**	**25%**	**38%**	**25%**	**0%**	**16**
Management Staff	**50%**	**17%**	**17%**	**67%**	**100%**	**33%**	**17%**	**0%**	**0%**	**6**
Technical Staff	**46%**	**25%**	**13%**	**71%**	**67%**	**29%**	**21%**	**8%**	**4%**	**24**
Policy Staff	**100%**	**25%**	**0%**	**75%**	**25%**	**25%**	**50%**	**0%**	**0%**	**4**
Advisory Committee	**33%**	**33%**	**0%**	**100%**	**67%**	**33%**	**0%**	**0%**	**33%**	**3**
Other	**100%**	**0%**	**0%**	**100%**	**67%**	**0%**	**33%**	**0%**	**0%**	**3**

Q2C: Select no more than THREE of the following TYPES OF INFORMATION that would best help you to address your most important land use issues over the next five years. (Multiple responses possible. Percentages sum to more than 100%.)

1 **Access, retrieval and analysis of data**
2 **Land-use classification**
3 **Land use change analysis**
4 **Standardized methodologies**
5 **State-of-knowledge reports/success stories**
6 **More geospatial data for GIS (including maps)**
7 **Build-out/infill analysis**
8 **Land suitability analysis.**
9 **Other**

	1	2	3	4	5	6	7	8	9	Count
All Gulf of Maine Respondents	33%	31%	69%	18%	27%	49%	24%	25%	7%	55
Country										
United States	25%	22%	72%	17%	28%	44%	33%	31%	8%	36
Canada	47%	47%	63%	21%	26%	58%	5%	16%	5%	19
State										
MA	33%	13%	80%	20%	20%	33%	40%	13%	13%	15
ME	19%	31%	69%	19%	25%	50%	31%	44%	0%	16
NH	20%	20%	60%	0%	60%	60%	20%	40%	20%	5
NS	60%	70%	60%	20%	30%	40%	0%	10%	0%	10
NB	33%	22%	67%	22%	22%	78%	11%	22%	11%	9
Program										
Coastal Mgmt	32%	29%	75%	21%	25%	50%	21%	21%	4%	28
NERR	20%	20%	80%	0%	20%	80%	20%	40%	0%	5
NEP	50%	33%	67%	17%	33%	17%	50%	17%	17%	6
ASFPM	0%	50%	50%	0%	0%	100%	50%	50%	0%	2
ASWM	50%	0%	100%	0%	50%	50%	0%	0%	0%	2
ASIWPCA	0%	0%	100%	0%	0%	100%	0%	0%	100%	1
IFMC	0%	0%	50%	0%	50%	50%	100%	50%	0%	2
Other	44%	56%	44%	33%	33%	33%	0%	33%	11%	9
Location										
HQ / Main Office	33%	30%	72%	20%	28%	43%	24%	28%	4%	46
Field Office	33%	33%	56%	11%	22%	78%	22%	11%	22%	9
Position										
Program Manager	31%	19%	81%	13%	31%	56%	19%	25%	6%	16
Management Staff	33%	33%	50%	17%	33%	50%	0%	33%	0%	6
Technical Staff	38%	33%	54%	29%	25%	46%	25%	25%	13%	24
Policy Staff	0%	50%	100%	0%	25%	50%	75%	0%	0%	4
Advisory Committee	50%	50%	100%	0%	50%	0%	0%	50%	0%	2
Other	33%	33%	100%	0%	0%	67%	33%	33%	0%	3

Q2D: Select ANY of the following CONTINUOUS OBSERVATION AND MONITORING VARIABLES that you consider necessary to help you address your most important land use issues over the next five years. (Multiple responses possible. Percentages sum to more than 100%.)

1	Sea level	8	Dissolved oxygen
2	Surface waves	9	Zooplankton species
3	Surface winds	10	Phytoplankton species
4	Surface temperature	11	Ocean color
5	Bathymetry/bottom type	12	Aerial/satellite imagery
6	Organic matter	13	Other
7	Dissolved inorganic nutrients		

	1	2	3	4	5	6	7	8	9	10	11	12	13	Count
All Gulf of Maine Respondents	28%	15%	13%	11%	22%	41%	46%	46%	15%	22%	7%	72%	24%	54
Country														
United States	24%	15%	15%	15%	24%	29%	38%	44%	12%	21%	6%	79%	32%	34
Canada	35%	15%	10%	5%	20%	60%	60%	50%	20%	25%	10%	60%	10%	20
State														
MA	29%	14%	14%	21%	14%	43%	50%	43%	7%	14%	14%	86%	29%	14
ME	27%	20%	20%	13%	40%	20%	27%	47%	20%	33%	0%	80%	33%	15
NH	0%	0%	0%	0%	0%	20%	40%	40%	0%	0%	0%	60%	40%	5
NS	36%	9%	9%	0%	18%	55%	64%	55%	9%	18%	18%	55%	18%	11
NB	33%	22%	11%	11%	22%	67%	56%	44%	33%	33%	0%	67%	0%	9
Program														
Coastal Mgmt	37%	22%	19%	11%	26%	41%	48%	48%	15%	22%	7%	74%	30%	27
NERR	20%	0%	20%	40%	40%	40%	20%	60%	20%	60%	0%	60%	20%	5
NEP	17%	0%	0%	0%	0%	17%	33%	17%	0%	0%	0%	83%	17%	6
ASFPM	50%	50%	0%	0%	50%	0%	0%	0%	0%	0%	0%	100%	0%	2
ASWM	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	50%	2
ASIWPCA	0%	0%	0%	0%	0%	100%	100%	0%	0%	0%	0%	100%	0%	1
IFMC	50%	50%	50%	50%	50%	50%	50%	100%	50%	50%	50%	50%	50%	2
Other	11%	0%	0%	0%	11%	67%	78%	67%	22%	22%	11%	56%	11%	9
Location														
HQ / Main Office	29%	11%	11%	11%	22%	36%	44%	47%	16%	24%	4%	71%	27%	45
Field Office	22%	33%	22%	11%	22%	67%	56%	44%	11%	11%	22%	78%	11%	9
Position														
Program Manager	31%	25%	13%	6%	19%	25%	31%	31%	19%	25%	0%	88%	19%	16
Management Staff	20%	0%	0%	20%	0%	60%	60%	60%	40%	40%	20%	60%	40%	5
Technical Staff	25%	17%	21%	17%	29%	50%	54%	54%	8%	21%	13%	71%	25%	24
Policy Staff	67%	0%	0%	0%	67%	33%	33%	33%	33%	33%	0%	67%	0%	3
Advisory Committee	0%	0%	0%	0%	0%	33%	67%	67%	0%	0%	0%	33%	33%	3
Other	33%	0%	0%	0%	0%	33%	33%	33%	0%	0%	0%	67%	33%	3

Q2E: Select no more than THREE of the following IMPROVED TECHNOLOGIES that could help you to address your most important land use issues over the next five years. (Multiple responses possible. Percentages sum to more than 100%.)

1 **Improved models that predict and/or simulate**
2 **Change detection sensors**
3 **Affordable remote sensing**
4 **Customized GIS**
5 **QA/QC of existing technology**
6 **Other**

	1	2	3	4	5	Count
All Gulf of Maine Respondents	65%	31%	67%	75%	25%	55
Country						
United States	67%	31%	64%	72%	22%	36
Canada	63%	32%	74%	79%	32%	19
State						
MA	60%	27%	47%	60%	33%	15
ME	69%	44%	75%	88%	13%	16
NH	80%	0%	80%	60%	20%	5
NS	60%	40%	80%	70%	30%	10
NB	67%	22%	67%	89%	33%	9
Program						
Coastal Mgmt	68%	36%	68%	75%	14%	28
NERR	80%	20%	80%	100%	20%	5
NEP	83%	17%	67%	50%	17%	6
ASFPM	50%	0%	50%	100%	100%	2
ASWM	50%	50%	0%	100%	50%	2
ASIWPCA	100%	0%	100%	100%	0%	1
IFMC	50%	50%	100%	50%	50%	2
Other	44%	33%	67%	67%	44%	9
Location						
HQ / Main Office	65%	35%	63%	76%	26%	46
Field Office	67%	11%	89%	67%	22%	9
Position						
Program Manager	69%	25%	69%	69%	25%	16
Management Staff	67%	17%	50%	83%	0%	6
Technical Staff	58%	29%	67%	75%	38%	24
Policy Staff	75%	50%	100%	75%	0%	4
Advisory Committee	100%	50%	50%	50%	50%	2
Other	67%	67%	67%	100%	0%	3

Q3: How important will issues related to NUTRIENT ENRICHMENT be to your program over the next five years?

	Very important	Important	Not very important	Not important at all	Not relevant	Count
All Gulf of Maine Respondents	**33%**	**32%**	**25%**	**6%**	**3%**	**63**
Country						
United States	32%	39%	18%	8%	3%	38
Canada	36%	20%	36%	4%	4%	25
State						
MA	44%	44%	6%	6%	0%	16
ME	24%	35%	24%	12%	6%	17
NH	20%	40%	40%	0%	0%	5
NS	21%	14%	50%	7%	7%	14
NB	55%	27%	18%	0%	0%	11
Program						
Coastal Mgmt	33%	21%	36%	3%	6%	33
NERR	40%	60%	0%	0%	0%	5
NEP	50%	33%	17%	0%	0%	6
ASFPM	0%	0%	0%	100%	0%	2
ASWM	0%	100%	0%	0%	0%	2
ASIWPCA	100%	0%	0%	0%	0%	1
IFMC	0%	100%	0%	0%	0%	3
Other	36%	27%	27%	9%	0%	11
Location						
HQ / Main Office	34%	30%	26%	6%	4%	53
Field Office	30%	40%	20%	10%	0%	10
Position						
Program Manager	28%	33%	28%	11%	0%	18
Management Staff	50%	33%	0%	17%	0%	6
Technical Staff	30%	33%	26%	4%	7%	27
Policy Staff	20%	40%	40%	0%	0%	5
Advisory Committee	75%	25%	0%	0%	0%	4
Other	33%	0%	67%	0%	0%	3

Q3A: Select no more than THREE of the following sources causing NUTRIENT ENRICHMENT that you consider most important to address over the next five years. (Multiple responses possible. Percentages sum to more than 100%.)

1	Stormwater sources (includes combined sewer overflows)	6	Fossil fuels (stationary and mobile sources)
2	Urban runoff	7	Agricultural sources
3	Onsite disposal systems	8	Aquaculture/mariculture
4	Sewage treatment plants	9	Forestry sources
5	Industrial sources	10	Boat/ship sources
		11	Other

	1	2	3	4	5	6	7	8	9	10	11	Count
All Gulf of Maine Respondents	61%	44%	46%	39%	20%	5%	29%	27%	10%	5%	5%	41
Country												
United States	88%	50%	50%	46%	4%	4%	19%	12%	0%	8%	4%	26
Canada	13%	33%	40%	27%	47%	7%	47%	53%	27%	0%	7%	15
State												
MA	85%	38%	69%	46%	0%	8%	23%	8%	0%	8%	8%	13
ME	90%	70%	20%	40%	10%	0%	20%	20%	0%	10%	0%	10
NH	100%	33%	67%	67%	0%	0%	0%	0%	0%	0%	0%	3
NS	33%	50%	50%	17%	17%	0%	83%	17%	33%	0%	0%	6
NB	0%	22%	33%	33%	67%	11%	22%	78%	22%	0%	11%	9
Program												
Coastal Mgmt	59%	53%	53%	41%	24%	0%	18%	29%	0%	6%	12%	17
NERR	80%	40%	20%	60%	0%	20%	40%	0%	0%	0%	0%	5
NEP	80%	40%	80%	60%	0%	0%	20%	20%	0%	0%	0%	5
ASWM	100%	50%	50%	50%	0%	0%	0%	0%	0%	0%	0%	2
ASIWPCA	100%	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	1
IFMC	67%	33%	33%	33%	0%	0%	67%	33%	0%	33%	0%	3
Other	25%	25%	25%	13%	50%	13%	50%	50%	50%	0%	0%	8
Location												
HQ / Main Office	67%	48%	48%	42%	18%	3%	21%	21%	9%	3%	6%	33
Field Office	38%	25%	38%	25%	25%	13%	63%	50%	13%	13%	0%	8
Position												
Program Manager	45%	55%	55%	64%	18%	0%	36%	18%	9%	0%	0%	11
Management Staff	67%	33%	33%	33%	33%	0%	17%	33%	0%	0%	0%	6
Technical Staff	81%	38%	44%	38%	6%	13%	25%	19%	6%	13%	13%	16
Policy Staff	33%	33%	67%	0%	67%	0%	0%	67%	33%	0%	0%	3
Advisory Committee	25%	50%	50%	25%	25%	0%	75%	25%	25%	0%	0%	4
Other	100%	100%	0%	0%	0%	0%	0%	100%	0%	0%	0%	1

Q3B: Select no more than THREE of the following RESEARCH ACTIVITIES that would best help you to address nutrient enrichment over the next five years. (Multiple responses possible. Percentages sum to more than 100%.)

1 Cumulative impact assessments (factors that lead to eutrophication)
2 Source identification/tracking
3 Effects on species/communities
4 Understanding factors that trigger HABs
5 Bio-indicators
6 Spatial and temporal trends analysis
7 Development of rapid assessment techniques to predict HABs
8 Efficacy of education and outreach efforts.
9 Other

	1	2	3	4	5	6	7	8	9	Count
All Gulf of Maine Respondents	73%	71%	63%	5%	27%	24%	7%	24%	5%	41
Country										
United States	69%	77%	62%	4%	27%	31%	8%	19%	4%	26
Canada	80%	60%	67%	7%	27%	13%	7%	33%	7%	15
State										
MA	92%	85%	38%	0%	31%	23%	8%	15%	8%	13
ME	30%	70%	80%	10%	20%	50%	10%	30%	0%	10
NH	100%	67%	100%	0%	33%	0%	0%	0%	0%	3
NS	83%	83%	50%	0%	0%	17%	17%	50%	0%	6
NB	78%	44%	78%	11%	44%	11%	0%	22%	11%	9
Program										
Coastal Mgmt	76%	71%	47%	12%	29%	24%	0%	29%	12%	17
NERR	20%	80%	60%	0%	40%	60%	0%	40%	0%	5
NEP	80%	60%	100%	0%	40%	20%	0%	0%	0%	5
ASWM	100%	100%	50%	0%	0%	0%	0%	50%	0%	2
ASIWPCA	100%	100%	0%	0%	0%	100%	0%	0%	0%	1
IFMC	67%	67%	100%	0%	0%	0%	67%	0%	0%	3
Other	88%	63%	75%	0%	25%	13%	13%	25%	0%	8
Location										
HQ / Main Office	70%	70%	61%	6%	30%	24%	3%	30%	6%	33
Field Office	88%	75%	75%	0%	13%	25%	25%	0%	0%	8
Position										
Program Manager	64%	55%	73%	9%	27%	9%	18%	36%	9%	11
Management Staff	50%	83%	67%	0%	17%	17%	0%	50%	17%	6
Technical Staff	88%	75%	56%	0%	31%	38%	6%	6%	0%	16
Policy Staff	67%	67%	33%	33%	33%	67%	0%	0%	0%	3
Advisory Committee	75%	75%	75%	0%	25%	0%	0%	50%	0%	4
Other	100%	100%	100%	0%	0%	0%	0%	0%	0%	1

Q3C: Select no more than THREE of the following TYPES OF INFORMATION that would best help you to address nutrient enrichment over the next five years. (Multiple responses possible. Percentages sum to more than 100%.)

1 **Access, retrieval and analysis of data**
2 **Short-term forecasts of nutrient loading**
3 **Quality assurance/control**
4 **BMP effectiveness or cost/benefit analysis**
5 **State-of-knowledge reports/success stories**
6 **Land use analysis**
7 **More geospatial data for GIS**
8 **Other**

	1	2	3	4	5	6	7	8	Count
All Gulf of Maine Respondents	41%	56%	20%	49%	34%	51%	37%	5%	41
Country									
United States	35%	50%	15%	42%	38%	65%	38%	4%	26
Canada	53%	67%	27%	60%	27%	27%	33%	7%	15
State									
MA	38%	54%	15%	54%	23%	62%	31%	8%	13
ME	30%	50%	10%	20%	50%	70%	60%	0%	10
NH	33%	33%	33%	67%	67%	67%	0%	0%	3
NS	33%	50%	17%	67%	50%	50%	17%	17%	6
NB	67%	78%	33%	56%	11%	11%	44%	0%	9
Program									
Coastal Mgmt	24%	59%	24%	53%	35%	53%	29%	12%	17
NERR	40%	40%	0%	0%	20%	100%	80%	0%	5
NEP	60%	80%	20%	40%	40%	20%	40%	0%	5
ASWM	50%	50%	0%	100%	50%	50%	0%	0%	2
ASIWPCA	100%	0%	0%	100%	0%	0%	100%	0%	1
IFMC	33%	33%	33%	67%	33%	67%	33%	0%	3
Other	63%	63%	25%	50%	38%	38%	25%	0%	8
Location									
HQ / Main Office	33%	61%	18%	52%	39%	55%	27%	6%	33
Field Office	75%	38%	25%	38%	13%	38%	75%	0%	8
Position									
Program Manager	55%	64%	27%	45%	9%	36%	55%	0%	11
Management Staff	50%	33%	0%	33%	67%	83%	17%	0%	6
Technical Staff	25%	56%	25%	56%	31%	63%	31%	6%	16
Policy Staff	33%	67%	33%	33%	33%	33%	67%	0%	3
Advisory Committee	50%	50%	0%	75%	75%	25%	0%	25%	4
Other	100%	100%	0%	0%	0%	0%	100%	0%	1

Q3D: Select ANY of the following CONTINUOUS OBSERVATION AND MONITORING VARIABLES that you consider necessary to help you address nutrient enrichment over the next five years. (Multiple responses possible. Percentages sum to more than 100%.)

1	Sea level	9	Organic matter
2	Surface and/or subsurface currents	10	Dissolved inorganic nutrients
3	Surface waves	11	Dissolved oxygen
4	Surface winds	12	Zooplankton species
5	Surface salinity	13	Phytoplankton species
6	Surface temperature	14	Ocean color
7	Light penetration	15	Aerial/satellite imagery
8	Bathymetry/bottom type	16	Other

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Count
All Gulf of Maine Respondents	5%	24%	10%	12%	22%	24%	51%	22%	61%	63%	78%	41%	61%	20%	39%	15%	41
Country																	
United States	4%	19%	12%	15%	27%	19%	54%	15%	54%	62%	77%	35%	58%	19%	42%	12%	26
Canada	7%	33%	7%	7%	13%	33%	47%	33%	73%	67%	80%	53%	67%	20%	33%	20%	15
State																	
MA	8%	23%	8%	15%	15%	15%	62%	23%	54%	62%	69%	15%	23%	15%	38%	15%	13
ME	0%	20%	20%	20%	40%	20%	40%	10%	50%	60%	90%	50%	90%	20%	50%	10%	10
NH	0%	0%	0%	0%	33%	33%	67%	0%	67%	67%	67%	67%	100%	33%	33%	0%	3
NS	17%	17%	0%	0%	0%	17%	33%	33%	50%	67%	83%	33%	50%	33%	33%	33%	6
NB	0%	44%	11%	11%	22%	44%	56%	33%	89%	67%	78%	67%	78%	11%	33%	11%	9
Program																	
Coastal Mgmt	0%	29%	6%	12%	18%	29%	53%	29%	59%	59%	76%	35%	53%	12%	47%	18%	17
NERR	20%	0%	20%	20%	40%	20%	0%	0%	40%	20%	80%	60%	80%	0%	20%	20%	5
NEP	0%	20%	20%	20%	40%	40%	100%	40%	60%	80%	80%	60%	80%	40%	20%	0%	5
ASWM	0%	0%	0%	0%	0%	0%	50%	0%	50%	50%	0%	0%	50%	0%	50%	0%	2
ASIWPCA	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	100%	0%	0%	0%	0%	100%	1
IFMC	0%	100%	33%	33%	33%	33%	100%	33%	100%	67%	100%	33%	67%	67%	67%	0%	3
Other	13%	13%	0%	0%	13%	13%	25%	13%	75%	100%	88%	50%	63%	25%	38%	13%	8
Location																	
HQ / Main Office	6%	18%	9%	12%	24%	24%	45%	18%	58%	64%	79%	45%	64%	15%	39%	12%	33
Field Office	0%	50%	13%	13%	13%	25%	75%	38%	75%	63%	75%	25%	50%	38%	38%	25%	8
Position																	
Program Manager	9%	27%	9%	9%	0%	18%	73%	27%	55%	45%	73%	45%	73%	27%	55%	0%	11
Management Staff	0%	0%	0%	0%	17%	17%	33%	0%	50%	67%	50%	33%	50%	33%	33%	17%	6
Technical Staff	6%	25%	13%	19%	31%	31%	50%	25%	69%	69%	94%	44%	63%	13%	31%	25%	16
Policy Staff	0%	33%	0%	0%	33%	0%	33%	33%	100%	67%	67%	67%	33%	0%	33%	0%	3
Advisory Committee	0%	25%	0%	0%	25%	25%	25%	0%	25%	75%	75%	0%	50%	0%	25%	25%	4
Other	0%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	0%	1

Q3E: Select no more than THREE of the following IMPROVED TECHNOLOGIES that would best help you to address nutrient enrichment over the next five years. (Multiple responses possible. Percentages sum to more than 100%.)

1 **Improved models that simulate and/or predict**
2 **Rapid benthic/pelagic community assessment**
3 **Cost effective long-term monitoring/sampling equipment**
4 **Rapid measurements of concentration**
5 **Improved treatment technologies**
6 **Enhanced remote sensing**
7 **Effective mitigation strategies**
8 **Other**

	1	2	3	4	5	6	7	8	Count
All Gulf of Maine Respondents	**54%**	**24%**	**66%**	**27%**	**37%**	**20%**	**54%**	**2%**	**41**
Country									
United States	**54%**	**15%**	**65%**	**27%**	**35%**	**23%**	**54%**	**4%**	**26**
Canada	**53%**	**40%**	**67%**	**27%**	**40%**	**13%**	**53%**	**0%**	**15**
State									
MA	**62%**	**8%**	**62%**	**23%**	**38%**	**23%**	**46%**	**8%**	**13**
ME	**40%**	**20%**	**60%**	**40%**	**40%**	**30%**	**50%**	**0%**	**10**
NH	**67%**	**33%**	**100%**	**0%**	**0%**	**0%**	**100%**	**0%**	**3**
NS	**50%**	**50%**	**50%**	**50%**	**33%**	**17%**	**33%**	**0%**	**6**
NB	**56%**	**33%**	**78%**	**11%**	**44%**	**11%**	**67%**	**0%**	**9**
Program									
Coastal Mgmt	**47%**	**29%**	**65%**	**12%**	**41%**	**18%**	**59%**	**6%**	**17**
NERR	**20%**	**20%**	**80%**	**20%**	**40%**	**60%**	**40%**	**0%**	**5**
NEP	**60%**	**20%**	**80%**	**40%**	**20%**	**0%**	**60%**	**0%**	**5**
ASWM	**100%**	**0%**	**100%**	**0%**	**50%**	**0%**	**50%**	**0%**	**2**
ASIWPCA	**100%**	**0%**	**0%**	**100%**	**0%**	**100%**	**0%**	**0%**	**1**
IFMC	**33%**	**33%**	**67%**	**33%**	**67%**	**0%**	**67%**	**0%**	**3**
Other	**75%**	**25%**	**50%**	**50%**	**25%**	**13%**	**50%**	**0%**	**8**
Location									
HQ / Main Office	**55%**	**21%**	**67%**	**18%**	**39%**	**21%**	**58%**	**3%**	**33**
Field Office	**50%**	**38%**	**63%**	**63%**	**25%**	**13%**	**38%**	**0%**	**8**
Position									
Program Manager	**55%**	**18%**	**55%**	**36%**	**55%**	**18%**	**36%**	**0%**	**11**
Management Staff	**33%**	**33%**	**50%**	**33%**	**50%**	**0%**	**83%**	**0%**	**6**
Technical Staff	**44%**	**25%**	**75%**	**19%**	**25%**	**25%**	**63%**	**6%**	**16**
Policy Staff	**100%**	**33%**	**67%**	**0%**	**33%**	**33%**	**33%**	**0%**	**3**
Advisory Committee	75%	25%	75%	25%	25%	25%	50%	0%	4
Other	100%	0%	100%	100%	0%	0%	0%	0%	1

Q4: How important will issues related to ENVIRONMENTAL CONTAMINATION be to your program over the next five years?

	Very important	Important	Not very important	Count
All Gulf of Maine Respondents	**24%**	**40%**	**37%**	**63**
Country				
United States	18%	42%	39%	38
Canada	32%	36%	32%	25
State				
MA	19%	44%	38%	16
ME	24%	41%	35%	17
NH	0%	40%	60%	5
NS	43%	14%	43%	14
NB	18%	64%	18%	11
Program				
Coastal Mgmt	21%	42%	36%	33
NERR	20%	40%	40%	5
NEP	33%	50%	17%	6
ASFPM	0%	0%	100%	2
ASWM	0%	0%	100%	2
ASIWPCA	100%	0%	0%	1
IFMC	0%	67%	33%	3
Other	36%	36%	27%	11
Location				
HQ / Main Office	21%	42%	38%	53
Field Office	40%	30%	30%	10
Position				
Program Manager	11%	39%	50%	18
Management Staff	50%	17%	33%	6
Technical Staff	26%	41%	33%	27
Policy Staff	20%	60%	20%	5
Advisory Committee	25%	25%	50%	4
Other	33%	67%	0%	3

Q4A: Select no more than THREE of the following types of ENVIRONMENTAL CONTAMINATION ISSUES that you consider most important to address over the next five years. (Multiple responses possible. Percentages sum to more than 100%.)

1 **Mercury**
2 **Polycyclic Aromatic Hydrocarbons (PAHs)**
3 **Dioxins/Furans**
4 **Biocides (Pesticides and anti-fouling agents)**
5 **Petroleum Hydrocarbons**
6 **Pathogens**
7 **Sewage**
8 **Excess Nitrogen**
9 **Other**

	1	2	3	4	5	6	7	8	9	Count
All Gulf of Maine Respondents	**38%**	**15%**	**5%**	**40%**	**28%**	**50%**	**55%**	**48%**	**13%**	**40**
Country										
United States	**52%**	**22%**	**4%**	**26%**	**35%**	**52%**	**48%**	**48%**	**9%**	**23**
Canada	**18%**	**6%**	**6%**	**59%**	**18%**	**47%**	**65%**	**47%**	**18%**	**17**
State										
MA	**33%**	**11%**	**0%**	**22%**	**33%**	**67%**	**44%**	**78%**	**11%**	**9**
ME	**67%**	**33%**	**8%**	**33%**	**25%**	**42%**	**50%**	**25%**	**8%**	**12**
NH	**50%**	**0%**	**0%**	**0%**	**100%**	**50%**	**50%**	**50%**	**0%**	**2**
NS	**25%**	**0%**	**0%**	**38%**	**25%**	**50%**	**75%**	**25%**	**25%**	**8**
NB	**11%**	**11%**	**11%**	**78%**	**11%**	**44%**	**56%**	**67%**	**11%**	**9**
Program										
Coastal Mgmt	**25%**	**10%**	**0%**	**35%**	**35%**	**50%**	**65%**	**50%**	**15%**	**20**
NERR	**75%**	**25%**	**0%**	**50%**	**25%**	**0%**	**75%**	**50%**	**0%**	**4**
NEP	**80%**	**40%**	**20%**	**20%**	**40%**	**60%**	**0%**	**40%**	**0%**	**5**
ASIWPCA	**0%**	**0%**	**0%**	**0%**	**0%**	**100%**	**100%**	**100%**	**0%**	**1**
IFMC	**50%**	**0%**	**0%**	**50%**	**0%**	**50%**	**100%**	**50%**	**0%**	**2**
Other	**25%**	**13%**	**13%**	**63%**	**13%**	**63%**	**38%**	**38%**	**25%**	**8**
Location										
HQ / Main Office	**39%**	**15%**	**6%**	**39%**	**27%**	**45%**	**58%**	**48%**	**12%**	**33**
Field Office	**29%**	**14%**	**0%**	**43%**	**29%**	**71%**	**43%**	**43%**	**14%**	**7**
Position										
Program Manager	**22%**	**11%**	**0%**	**44%**	**11%**	**78%**	**67%**	**67%**	**0%**	**9**
Management Staff	**20%**	**0%**	**0%**	**40%**	**60%**	**40%**	**60%**	**40%**	**20%**	**5**
Technical Staff	**53%**	**12%**	**0%**	**47%**	**24%**	**41%**	**53%**	**41%**	**18%**	**17**
Policy Staff	**50%**	**25%**	**25%**	**25%**	**25%**	**50%**	**50%**	**50%**	**0%**	**4**
Advisory Committee	0%	0%	0%	50%	0%	100%	50%	50%	50%	2
Other	33%	67%	33%	0%	67%	0%	33%	33%	0%	3

Q4B: Select no more than THREE of the following RESEARCH ACTIVITIES that would best help you to address your most important types of environmental contamination over the next five years. (Multiple responses possible. Percentages sum to more than 100%.)

1	Cumulative impact assessments	7	Public health risk assessment
2	Identification of sources	8	Effectiveness of remediation techniques
3	In-situ transport rates	9	Test and validate assessment techniques
4	Bioindicators	10	Rate of freshwater inflow
5	Select/validate biomarkers for chemicals	11	Other
6	Toxicity analysis		

	1	2	3	4	5	6	7	8	9	10	11	Count
All Gulf of Maine Respondents	73%	63%	10%	35%	10%	20%	28%	33%	8%	3%	3%	40
Country												
United States	61%	65%	13%	43%	4%	13%	35%	26%	13%	4%	4%	23
Canada	88%	59%	6%	24%	18%	29%	18%	41%	0%	0%	0%	17
State												
MA	56%	78%	11%	22%	0%	11%	44%	33%	11%	11%	11%	9
ME	58%	58%	17%	58%	8%	8%	25%	25%	17%	0%	0%	12
NH	100%	50%	0%	50%	0%	50%	50%	0%	0%	0%	0%	2
NS	88%	88%	13%	38%	13%	13%	0%	38%	0%	0%	0%	8
NB	89%	33%	0%	11%	22%	44%	33%	44%	0%	0%	0%	9
Program												
Coastal Mgmt	80%	65%	0%	50%	10%	15%	25%	35%	10%	0%	5%	20
NERR	50%	50%	25%	50%	0%	0%	0%	25%	25%	0%	0%	4
NEP	80%	40%	20%	20%	20%	20%	60%	20%	0%	20%	0%	5
ASIWPCA	0%	100%	0%	100%	0%	0%	0%	100%	0%	0%	0%	1
IFMC	50%	100%	50%	0%	0%	0%	100%	0%	0%	0%	0%	2
Other	75%	63%	13%	0%	13%	50%	13%	38%	0%	0%	0%	8
Location												
HQ / Main Office	76%	61%	6%	39%	12%	18%	27%	36%	9%	0%	3%	33
Field Office	57%	71%	29%	14%	0%	29%	29%	14%	0%	14%	0%	7
Position												
Program Manager	67%	56%	22%	22%	22%	11%	33%	33%	0%	11%	0%	9
Management Staff	80%	60%	0%	20%	0%	40%	40%	40%	0%	0%	0%	5
Technical Staff	59%	65%	12%	35%	6%	24%	29%	29%	12%	0%	6%	17
Policy Staff	100%	75%	0%	50%	0%	25%	25%	25%	0%	0%	0%	4
Advisory Committee	100%	50%	0%	0%	50%	0%	0%	100%	0%	0%	0%	2
Other	100%	67%	0%	100%	0%	0%	0%	0%	33%	0%	0%	3

Q4C: Select no more than THREE of the following TYPES OF INFORMATION that would best help you to address your most important types of environmental contamination over the next five years. (Multiple responses possible. Percentages sum to more than 100%.)

1 **Bioassay numeric guidelines**
2 **Epidemiology of contaminants**
3 **TMDL guidelines**
4 **Explanation of interactions among contaminants**
5 **Economic impact evaluations**
6 **Remediation options**
7 **More geospatial data for GIS**
8 **Cost/benefit analysis of remediation**
9 **Other**

	1	2	3	4	5	6	7	8	9	Count
All Gulf of Maine Respondents	20%	25%	20%	43%	38%	60%	28%	35%	5%	40
Country										
United States	13%	26%	30%	39%	35%	61%	22%	30%	9%	23
Canada	29%	24%	6%	47%	41%	59%	35%	41%	0%	17
State										
MA	0%	11%	67%	11%	22%	67%	22%	44%	11%	9
ME	17%	33%	0%	58%	42%	58%	25%	25%	8%	12
NH	50%	50%	50%	50%	50%	50%	0%	0%	0%	2
NS	38%	25%	13%	63%	25%	63%	25%	25%	0%	8
NB	22%	22%	0%	33%	56%	56%	44%	56%	0%	9
Program										
Coastal Mgmt	15%	25%	30%	50%	35%	65%	25%	25%	5%	20
NERR	0%	25%	0%	25%	75%	25%	50%	0%	25%	4
NEP	40%	20%	20%	60%	20%	40%	20%	40%	0%	5
ASIWPCA	0%	0%	0%	0%	0%	100%	100%	100%	0%	1
IFMC	0%	50%	50%	0%	50%	100%	0%	50%	0%	2
Other	38%	25%	0%	38%	38%	63%	25%	63%	0%	8
Location										
HQ / Main Office	21%	24%	18%	48%	36%	64%	21%	33%	6%	33
Field Office	14%	29%	29%	14%	43%	43%	57%	43%	0%	7
Position										
Program Manager	0%	22%	22%	33%	33%	33%	33%	44%	0%	9
Management Staff	0%	0%	20%	20%	60%	80%	20%	40%	20%	5
Technical Staff	35%	41%	24%	47%	29%	59%	29%	24%	6%	17
Policy Staff	0%	25%	0%	75%	50%	75%	50%	25%	0%	4
Advisory Committee	50%	0%	0%	0%	50%	50%	0%	100%	0%	2
Other	33%	0%	33%	67%	33%	100%	0%	33%	0%	3

Q4D: Select ANY of the following CONTINUOUS OBSERVATION AND MONITORING VARIABLES that you consider necessary to help you address your most important types of environmental contamination over the next five years. (Multiple responses possible. Percentages sum to more than 100%.)

1	Sea level	9	Organic matter
2	Surface and/or subsurface currents	10	Dissolved inorganic nutrients
3	Surface waves	11	Dissolved oxygen
4	Surface winds	12	Zooplankton species
5	Surface salinity	13	Phytoplankton species
6	Surface temperature	14	Ocean color
7	Light penetration	15	Aerial/satellite imagery
8	Bathymetry/bottom type	16	Other

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Count
All Gulf of Maine Respondents	6%	31%	11%	20%	17%	26%	20%	31%	63%	60%	49%	37%	46%	11%	31%	23%	35
Country																	
United States	5%	30%	10%	25%	20%	15%	20%	25%	50%	50%	40%	30%	40%	5%	45%	25%	20
Canada	7%	33%	13%	13%	13%	40%	20%	40%	80%	73%	60%	47%	53%	20%	13%	20%	15
State																	
MA	0%	43%	14%	29%	43%	29%	43%	29%	43%	57%	43%	29%	43%	0%	57%	29%	7
ME	8%	25%	8%	25%	8%	8%	8%	25%	50%	42%	33%	33%	42%	8%	42%	25%	12
NH	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	100%	0%	0%	0%	0%	0%	1
NS	14%	29%	14%	14%	14%	43%	14%	57%	71%	57%	57%	29%	29%	29%	14%	29%	7
NB	0%	38%	13%	13%	13%	38%	25%	25%	88%	88%	63%	63%	75%	13%	13%	13%	8
Program																	
Coastal Mgmt	0%	41%	6%	24%	12%	29%	18%	41%	65%	71%	59%	29%	41%	18%	35%	18%	17
NERR	0%	0%	0%	0%	25%	25%	0%	0%	0%	25%	25%	25%	25%	0%	50%	50%	4
NEP	0%	0%	0%	0%	25%	0%	0%	25%	75%	0%	0%	25%	25%	0%	25%	0%	4
ASIWPCA	0%	0%	0%	0%	0%	0%	100%	0%	0%	100%	0%	0%	0%	0%	0%	100%	1
IFMC	50%	100%	100%	100%	50%	50%	100%	100%	100%	100%	100%	100%	100%	0%	0%	0%	2
Other	14%	29%	14%	14%	14%	29%	14%	14%	86%	71%	57%	57%	71%	14%	29%	29%	7
Location																	
HQ / Main Office	3%	28%	3%	14%	14%	28%	14%	31%	66%	59%	52%	34%	45%	14%	34%	21%	29
Field Office	17%	50%	50%	50%	33%	17%	50%	33%	50%	67%	33%	50%	50%	0%	17%	33%	6
Position																	
Program Manager	25%	25%	25%	25%	13%	25%	13%	25%	63%	50%	38%	63%	63%	25%	38%	0%	8
Management Staff	0%	25%	25%	25%	0%	25%	0%	0%	50%	50%	50%	50%	50%	0%	50%	25%	4
Technical Staff	0%	29%	7%	14%	29%	36%	36%	43%	57%	71%	57%	29%	43%	14%	36%	36%	14
Policy Staff	0%	50%	0%	25%	0%	0%	0%	50%	100%	75%	50%	50%	50%	0%	25%	0%	4
Advisory Committee	0%	50%	0%	0%	50%	50%	50%	0%	50%	50%	50%	0%	50%	0%	0%	50%	2
Other	0%	33%	0%	33%	0%	0%	0%	33%	67%	33%	33%	0%	0%	0%	0%	33%	3

Q4E: Select no more than THREE of the following IMPROVED TECHNOLOGIES that would best help you to address your most important types of environmental contamination over the next five years. (Multiple responses possible. Percentages sum to more than 100%.)

1 **Improved models that simulate and/or predict**
2 **Reliable DNA fingerprinting**
3 **Rapid/real time detection**
4 **Cost effective long-term monitoring equipment**
5 **Improved remote sensing/sampling technologies**
6 **Improved treatment or removal technologies**
7 **Reliable public health testing**
8 **Other**

	1	2	3	4	5	6	7	8	Count
All Gulf of Maine Respondents	31%	41%	56%	38%	44%	54%	15%	3%	39
Country									
United States	27%	45%	59%	32%	55%	45%	18%	5%	22
Canada	35%	35%	53%	47%	29%	65%	12%	0%	17
State									
MA	13%	63%	88%	25%	13%	63%	38%	0%	8
ME	42%	33%	50%	33%	75%	33%	0%	8%	12
NH	0%	50%	0%	50%	100%	50%	50%	0%	2
NS	13%	38%	63%	50%	25%	63%	0%	0%	8
NB	56%	33%	44%	44%	33%	67%	22%	0%	9
Program									
Coastal Mgmt	37%	47%	47%	32%	47%	58%	5%	5%	19
NERR	25%	50%	50%	50%	75%	25%	0%	0%	4
NEP	0%	40%	60%	20%	40%	40%	60%	0%	5
ASIWPCA	0%	100%	100%	0%	0%	100%	0%	0%	1
IFMC	50%	50%	100%	50%	0%	50%	0%	0%	2
Other	38%	13%	63%	63%	38%	63%	25%	0%	8
Location									
HQ / Main Office	28%	44%	53%	38%	47%	53%	13%	3%	32
Field Office	43%	29%	71%	43%	29%	57%	29%	0%	7
Position									
Program Manager	38%	25%	63%	13%	38%	63%	25%	0%	8
Management Staff	20%	40%	80%	40%	60%	60%	0%	0%	5
Technical Staff	24%	59%	59%	47%	35%	47%	18%	0%	17
Policy Staff	75%	50%	25%	25%	50%	50%	25%	0%	4
Advisory Committee	0%	0%	50%	50%	0%	100%	0%	0%	2
Other	33%	0%	33%	67%	100%	33%	0%	33%	3

Q5: How important will issues related to NONINDIGENOUS SPECIES be to your program over the next five years?

	Very important	Important	Not very important	Not important at all	Not relevant	Count
All Gulf of Maine Respondents	**16%**	**40%**	**33%**	**10%**	**2%**	**63**
Country						
United States	21%	39%	32%	8%	0%	38
Canada	8%	40%	36%	12%	4%	25
State						
MA	19%	50%	19%	13%	0%	16
ME	24%	29%	41%	6%	0%	17
NH	20%	40%	40%	0%	0%	5
NS	7%	21%	50%	21%	0%	14
NB	9%	64%	18%	0%	9%	11
Program						
Coastal Mgmt	15%	45%	33%	6%	0%	33
NERR	60%	0%	40%	0%	0%	5
NEP	0%	50%	50%	0%	0%	6
ASFPM	0%	0%	50%	50%	0%	2
ASWM	100%	0%	0%	0%	0%	2
ASIWPCA	0%	0%	100%	0%	0%	1
IFMC	0%	100%	0%	0%	0%	3
Other	0%	36%	27%	27%	9%	11
Location						
HQ / Main Office	19%	40%	32%	9%	0%	53
Field Office	0%	40%	40%	10%	10%	10
Position						
Program Manager	17%	44%	33%	6%	0%	18
Management Staff	33%	17%	33%	17%	0%	6
Technical Staff	19%	30%	37%	11%	4%	27
Policy Staff	0%	60%	40%	0%	0%	5
Advisory Committee	0%	50%	25%	25%	0%	4
Other	0%	100%	0%	0%	0%	3

Q5A: Select no more than THREE of the following NONINDIGENOUS SPECIES ISSUES that you consider most important to address over the next five years. (Multiple responses possible. Percentages sum to more than 100%.)

1 **Social impacts**
2 **Economic impacts**
3 **Public health impacts**
4 **Preventing introduction , , ,**
5 **Eradicate or control species.**
6 **Restoration of affected areas**
7 **Effects on native species and communities**
8 **Effects on water or sediment quality**
9 **Other**

	1	2	3	4	5	6	7	8	9	Count
All Gulf of Maine Respondents	6%	47%	6%	58%	47%	36%	86%	8%	3%	36
Country										
United States	4%	42%	8%	54%	54%	42%	83%	8%	4%	24
Canada	8%	58%	0%	67%	33%	25%	92%	8%	0%	12
State										
MA	9%	36%	9%	55%	64%	27%	82%	9%	9%	11
ME	0%	40%	10%	70%	40%	40%	90%	10%	0%	10
NH	0%	67%	0%	0%	67%	100%	67%	0%	0%	3
NS	0%	50%	0%	75%	50%	0%	100%	0%	0%	4
NB	13%	63%	0%	63%	25%	38%	88%	13%	0%	8
Program										
Coastal Mgmt	11%	53%	11%	63%	42%	32%	79%	5%	5%	19
NERR	0%	25%	0%	50%	50%	50%	100%	25%	0%	4
NEP	0%	33%	0%	100%	67%	33%	67%	0%	0%	3
ASWM	0%	0%	0%	0%	100%	100%	100%	0%	0%	2
IFMC	0%	67%	0%	33%	33%	33%	100%	33%	0%	3
Other	0%	60%	0%	60%	40%	20%	100%	0%	0%	5
Location										
HQ / Main Office	6%	42%	6%	61%	52%	39%	84%	6%	3%	31
Field Office	0%	80%	0%	40%	20%	20%	100%	20%	0%	5
Position										
Program Manager	0%	36%	0%	73%	45%	55%	91%	0%	0%	11
Management Staff	0%	60%	0%	0%	60%	60%	100%	0%	0%	5
Technical Staff	15%	38%	15%	54%	54%	23%	77%	15%	8%	13
Policy Staff	0%	67%	0%	100%	0%	0%	100%	33%	0%	3
Advisory Committee	0%	100%	0%	100%	0%	0%	100%	0%	0%	1
Other	0%	67%	0%	67%	67%	33%	67%	0%	0%	3

Q5B: Select no more than THREE of the following RESEARCH ACTIVITIES that would best help you to address your most important nonindigenous species issues over the next five years. (Multiple responses possible. Percentages sum to more than 100%.)

1 **Early detection of species**
2 **Cumulative impact assessments**
3 **Vector identification**
4 **Susceptibility factors for coastal invasive introduction**
5 **Effects of climate change/global warming**
6 **Rapid assessment techniques and analysis**
7 **Effectiveness of BMPs (e.g., ballast water treatment)**
8 **Human behaviors leading to introductions**
9 **Other**

	1	2	3	4	5	6	7	8	9	Count
All Gulf of Maine Respondents	68%	35%	38%	38%	11%	30%	30%	30%	3%	37
Country										
United States	63%	33%	38%	33%	8%	29%	33%	42%	4%	24
Canada	77%	38%	38%	46%	15%	31%	23%	8%	0%	13
State										
MA	73%	18%	55%	18%	0%	27%	27%	55%	9%	11
ME	60%	40%	30%	40%	20%	20%	50%	30%	0%	10
NH	33%	67%	0%	67%	0%	67%	0%	33%	0%	3
NS	80%	40%	40%	40%	0%	40%	0%	0%	0%	5
NB	75%	38%	38%	50%	25%	25%	38%	13%	0%	8
Program										
Coastal Mgmt	75%	40%	35%	40%	5%	30%	20%	40%	5%	20
NERR	50%	50%	0%	50%	25%	25%	75%	0%	0%	4
NEP	67%	33%	100%	33%	0%	0%	33%	33%	0%	3
ASWM	0%	50%	0%	50%	0%	50%	0%	50%	0%	2
IFMC	67%	0%	33%	33%	33%	33%	67%	33%	0%	3
Other	80%	20%	60%	20%	20%	40%	20%	0%	0%	5
Location										
HQ / Main Office	69%	38%	41%	38%	9%	28%	28%	31%	3%	32
Field Office	60%	20%	20%	40%	20%	40%	40%	20%	0%	5
Position										
Program Manager	64%	45%	36%	27%	9%	27%	27%	45%	0%	11
Management Staff	20%	40%	20%	40%	20%	60%	20%	20%	0%	5
Technical Staff	69%	15%	38%	46%	8%	31%	46%	31%	8%	13
Policy Staff	100%	33%	33%	33%	33%	33%	33%	0%	0%	3
Advisory Committee	100%	50%	50%	50%	0%	0%	0%	0%	0%	2
Other	100%	67%	67%	33%	0%	0%	0%	33%	0%	3

Q5C: Select no more than THREE of the following TYPES OF INFORMATION that would best help you to address your most important nonindigenous species issues over the next five years. (Multiple responses possible. Percentages sum to more than 100%.)

1 **Access, retrieval and analysis of data**
2 **Ecosystem inventory**
3 **Land use assessment**
4 **State-of-knowledge reports/success stories**
5 **More geospatial data for GIS**
6 **Other**

	1	2	3	4	5	6	Count
All Gulf of Maine Respondents	65%	70%	22%	54%	49%	8%	37
Country							
United States	54%	58%	25%	58%	50%	8%	24
Canada	85%	92%	15%	46%	46%	8%	13
State							
MA	55%	73%	0%	55%	55%	18%	11
ME	50%	40%	40%	50%	60%	0%	10
NH	67%	67%	67%	100%	0%	0%	3
NS	80%	80%	20%	40%	40%	20%	5
NB	88%	100%	13%	50%	50%	0%	8
Program							
Coastal Mgmt	65%	75%	25%	55%	40%	15%	20
NERR	25%	25%	75%	50%	50%	0%	4
NEP	33%	67%	0%	67%	67%	0%	3
ASWM	100%	50%	0%	50%	50%	0%	2
IFMC	67%	67%	0%	33%	100%	0%	3
Other	100%	100%	0%	60%	40%	0%	5
Location							
HQ / Main Office	63%	69%	25%	59%	41%	9%	32
Field Office	80%	80%	0%	20%	100%	0%	5
Position							
Program Manager	64%	64%	18%	55%	55%	0%	11
Management Staff	80%	60%	20%	80%	20%	0%	5
Technical Staff	54%	77%	23%	38%	62%	23%	13
Policy Staff	100%	67%	0%	67%	67%	0%	3
Advisory Committee	50%	100%	50%	50%	0%	0%	2
Other	67%	67%	33%	67%	33%	0%	3

Q5D: Select ANY of the following CONTINUOUS OBSERVATION AND MONITORING VARIABLES that you consider necessary to help you address your most important nonindigenous species issues over the next five years. (Multiple responses possible. Percentages sum to more than 100%.)

1	Sea level	9	Organic matter
2	Surface and/or subsurface currents	10	Dissolved inorganic nutrients
3	Surface waves	11	Dissolved oxygen
4	Surface winds	12	Zooplankton species
5	Surface salinity	13	Phytoplankton species
6	Surface temperature	14	Ocean color
7	Light penetration	15	Aerial/satellite imagery
8	Bathymetry/bottom type	16	Other

	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Count
All Gulf of Maine Respondents	38%	9%	6%	22%	31%	19%	22%	22%	31%	25%	34%	41%	9%	31%	25%	32
Country																
United States	41%	14%	9%	23%	27%	14%	18%	9%	27%	18%	23%	23%	5%	32%	27%	22
Canada	30%	0%	0%	20%	40%	30%	30%	50%	40%	40%	60%	80%	20%	30%	20%	10
State																
MA	60%	20%	10%	20%	40%	10%	30%	10%	30%	20%	20%	20%	0%	20%	20%	10
ME	33%	11%	11%	33%	22%	22%	11%	0%	11%	11%	33%	33%	11%	33%	44%	9
NH	0%	0%	0%	0%	0%	0%	0%	33%	67%	33%	0%	0%	0%	67%	0%	3
NS	33%	0%	0%	33%	33%	67%	67%	67%	67%	67%	67%	67%	33%	0%	33%	3
NB	29%	0%	0%	14%	43%	14%	14%	43%	29%	29%	57%	86%	14%	43%	14%	7
Program																
Coastal Mgmt	35%	6%	0%	6%	35%	18%	18%	24%	29%	24%	47%	47%	12%	29%	24%	17
NERR	25%	0%	0%	50%	0%	0%	25%	0%	0%	0%	0%	0%	0%	25%	25%	4
NEP	67%	33%	33%	67%	33%	33%	33%	0%	33%	33%	67%	67%	33%	33%	33%	3
ASWM	0%	0%	0%	0%	0%	0%	0%	0%	50%	0%	0%	0%	0%	100%	0%	2
IFMC	67%	33%	33%	33%	67%	0%	33%	33%	33%	33%	0%	33%	0%	0%	67%	3
Other	33%	0%	0%	33%	33%	67%	33%	67%	67%	67%	33%	67%	0%	33%	0%	3
Location																
HQ / Main Office	32%	7%	4%	21%	29%	21%	21%	18%	32%	25%	36%	39%	11%	36%	18%	28
Field Office	75%	25%	25%	25%	50%	0%	25%	50%	25%	25%	25%	50%	0%	0%	75%	4
Position																
Program Manager	30%	0%	0%	20%	10%	20%	20%	20%	10%	10%	50%	50%	10%	30%	40%	10
Management Staff	25%	0%	0%	0%	25%	0%	25%	25%	50%	25%	25%	25%	0%	25%	25%	4
Technical Staff	46%	15%	8%	23%	38%	15%	31%	15%	31%	23%	31%	31%	8%	31%	15%	13
Policy Staff	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	100%	0%	100%	0%	1
Advisory Committee	50%	0%	0%	50%	50%	50%	0%	50%	50%	50%	0%	50%	0%	0%	50%	2
Other	50%	50%	50%	50%	50%	50%	0%	50%	100%	100%	50%	50%	50%	50%	0%	2

Q5E: Select no more than THREE of the following IMPROVED TECHNOLOGIES that would best help you to address your most important nonindigenous species issues over the next five years. (Multiple responses possible. Percentages sum to more than 100%.)

1 **Rapid detection and monitoring**
2 **Rapid response techniques**
3 **Treatment or removal technologies**
4 **Prevention techniques (e.g., irradiation)**
5 **Other**

	1	2	3	4	5	Count
All Gulf of Maine Respondents	72%	56%	69%	78%	3%	36
Country						
United States	67%	58%	71%	79%	0%	24
Canada	83%	50%	67%	75%	8%	12
State						
MA	73%	73%	73%	64%	0%	11
ME	70%	60%	60%	90%	0%	10
NH	33%	0%	100%	100%	0%	3
NS	75%	0%	100%	100%	0%	4
NB	88%	75%	50%	63%	13%	8
Program						
Coastal Mgmt	80%	45%	60%	85%	5%	20
NERR	50%	75%	75%	100%	0%	4
NEP	67%	100%	67%	67%	0%	3
ASWM	0%	0%	100%	100%	0%	2
IFMC	67%	67%	67%	67%	0%	3
Other	100%	75%	100%	25%	0%	4
Location						
HQ / Main Office	72%	56%	72%	78%	0%	32
Field Office	75%	50%	50%	75%	25%	4
Position						
Program Manager	64%	45%	64%	73%	9%	11
Management Staff	50%	75%	75%	75%	0%	4
Technical Staff	77%	62%	69%	85%	0%	13
Policy Staff	100%	67%	67%	67%	0%	3
Advisory Committee	50%	50%	100%	50%	0%	2
Other	100%	33%	67%	100%	0%	3

Q6: How important will issues related to COASTAL HAZARDS (including tectonic/catastrophic events and tsunamis) be to your program over the next five years?

	Very important	Important	Not very important	Not important at all	Not relevant	Count
All Gulf of Maine Respondents	**16%**	**16%**	**43%**	**11%**	**14%**	**63**
Country						
United States	21%	13%	47%	11%	8%	38
Canada	8%	20%	36%	12%	24%	25
State						
MA	31%	19%	38%	6%	6%	16
ME	18%	12%	53%	6%	12%	17
NH	0%	0%	60%	40%	0%	5
NS	7%	21%	29%	21%	21%	14
NB	9%	18%	45%	0%	27%	11
Program						
Coastal Mgmt	21%	21%	42%	6%	9%	33
NERR	0%	20%	40%	0%	40%	5
NEP	0%	0%	50%	50%	0%	6
ASFPM	100%	0%	0%	0%	0%	2
ASWM	50%	0%	50%	0%	0%	2
ASIWPCA	0%	0%	0%	0%	100%	1
IFMC	0%	0%	100%	0%	0%	3
Other	0%	18%	36%	18%	27%	11
Location						
HQ / Main Office	17%	19%	42%	13%	9%	53
Field Office	10%	0%	50%	0%	40%	10
Position						
Program Manager	28%	17%	50%	6%	0%	18
Management Staff	17%	0%	50%	0%	33%	6
Technical Staff	15%	19%	26%	15%	26%	27
Policy Staff	0%	40%	60%	0%	0%	5
Advisory Committee	0%	0%	75%	25%	0%	4
Other	0%	0%	67%	33%	0%	3

Q6A: Select no more than THREE of the following COASTAL HAZARD ISSUES that you consider most important to address over the next five years. (Multiple responses possible. Percentages sum to more than 100%.)

1 Managing areas subject to erosion
2 Managing areas subject to flooding
3 Managing areas subject to severe wind effects
4 Managing areas subject to high sedimentation rates
5 Managing for effects of shoreline stabilization
6 Providing emergency management/warning systems
7 Understanding economic impacts
8 Other

	1	2	3	4	5	6	7	8	Count
All Gulf of Maine Respondents	**89%**	**79%**	**21%**	**5%**	**58%**	**16%**	**21%**	**5%**	**19**
Country									
United States	100%	75%	8%	0%	75%	8%	17%	8%	12
Canada	71%	86%	43%	14%	29%	29%	29%	0%	7
State									
MA	100%	71%	0%	0%	71%	14%	14%	14%	7
ME	100%	80%	20%	0%	80%	0%	20%	0%	5
NS	75%	100%	50%	25%	0%	25%	25%	0%	4
NB	67%	67%	33%	0%	67%	33%	33%	0%	3
Program									
Coastal Mgmt	100%	75%	8%	0%	67%	17%	17%	8%	12
NERR	100%	100%	0%	0%	100%	0%	0%	0%	1
ASFPM	100%	100%	50%	0%	50%	0%	0%	0%	2
ASWM	100%	100%	0%	0%	100%	0%	0%	0%	1
Other	33%	67%	67%	33%	0%	33%	67%	0%	3
Location									
HQ / Main Office	94%	76%	24%	0%	65%	12%	18%	6%	17
Field Office	50%	100%	0%	50%	0%	50%	50%	0%	2
Position									
Program Manager	100%	88%	38%	0%	50%	0%	13%	0%	8
Management Staff	50%	50%	0%	50%	50%	0%	100%	0%	2
Technical Staff	100%	86%	0%	0%	71%	29%	0%	14%	7
Policy Staff	50%	50%	50%	0%	50%	50%	50%	0%	2

Q6B: Select no more than THREE of the following RESEARCH ACTIVITIES that would best help you to address your most important coastal hazard issues over the next five years. (Multiple responses possible. Percentages sum to more than 100%.)

1 Littoral cell inventories
2 Shoreline characterizations
3 Risk and vulnerability assessments
4 Trends analysis
5 Effects of climate change/global warming
6 Attitudes, values and perceptions of risk.
7 Other

	1	2	3	4	5	6	7	Count
All Gulf of Maine Respondents	**21%**	**53%**	**68%**	**42%**	**53%**	**37%**	**16%**	**19**
Country								
United States	33%	58%	50%	50%	33%	50%	25%	12
Canada	0%	43%	100%	29%	86%	14%	0%	7
State								
MA	29%	43%	29%	71%	43%	57%	29%	7
ME	40%	80%	80%	20%	20%	40%	20%	5
NS	0%	25%	100%	25%	75%	25%	0%	4
NB	0%	67%	100%	33%	100%	0%	0%	3
Program								
Coastal Mgmt	23%	54%	62%	38%	54%	31%	23%	13
NERR	0%	100%	100%	0%	100%	0%	0%	1
ASFPM	0%	50%	100%	50%	0%	100%	0%	2
ASWM	100%	100%	0%	100%	0%	0%	0%	1
Other	0%	0%	100%	50%	100%	50%	0%	2
Location								
HQ / Main Office	22%	50%	67%	44%	50%	39%	17%	18
Field Office	0%	100%	100%	0%	100%	0%	0%	1
Position								
Program Manager	25%	50%	63%	25%	50%	63%	13%	8
Management Staff	100%	0%	0%	0%	100%	100%	0%	1
Technical Staff	13%	63%	75%	63%	38%	13%	25%	8
Policy Staff	0%	50%	100%	50%	100%	0%	0%	2

Q6C: Select no more than THREE of the following TYPES OF INFORMATION that would best help you to address your most important coastal hazard issues over the next five years. (Multiple responses possible. Percentages sum to more than 100%.)

1 Access, retrieval and analysis of data
2 Design standards for shoreline management technologies.
3 Socio-economic impact assessments
4 State-of-knowledge reports/case studies
5 Geomorphologic studies
6 Spatial and temporal demographics
7 More geospatial data for GIS (elevation maps, land cover and use, etc)
8 Other

	1	2	3	4	5	6	7	8	Count
All Gulf of Maine Respondents	**44%**	**50%**	**44%**	**22%**	**22%**	**17%**	**61%**	**6%**	**18**
Country									
United States	42%	50%	42%	17%	17%	17%	58%	8%	12
Canada	50%	50%	50%	33%	33%	17%	67%	0%	6
State									
MA	43%	57%	43%	14%	0%	29%	29%	14%	7
ME	40%	40%	40%	20%	40%	0%	100%	0%	5
NS	67%	33%	67%	33%	0%	33%	67%	0%	3
NB	33%	67%	33%	33%	67%	0%	67%	0%	3
Program									
Coastal Mgmt	25%	50%	50%	25%	33%	17%	58%	8%	12
NERR	100%	0%	0%	0%	0%	0%	100%	0%	1
ASFPM	100%	100%	0%	0%	0%	0%	100%	0%	2
ASWM	0%	100%	100%	0%	0%	0%	0%	0%	1
Other	100%	0%	50%	50%	0%	50%	50%	0%	2
Location									
HQ / Main Office	47%	47%	41%	24%	24%	18%	59%	6%	17
Field Office	0%	100%	100%	0%	0%	0%	100%	0%	1
Position									
Program Manager	63%	50%	38%	25%	13%	13%	75%	0%	8
Management Staff	0%	0%	100%	100%	0%	0%	0%	0%	1
Technical Staff	29%	57%	43%	0%	29%	29%	57%	14%	7
Policy Staff	50%	50%	50%	50%	50%	0%	50%	0%	2

Q6D: Select ANY of the following CONTINUOUS OBSERVATION AND MONITORING VARIABLES that you consider necessary to help you address your most important coastal hazard issues over the next five years. (Multiple responses possible. Percentages sum to more than 100%.)

1	**Sea level**	**9**	**Organic matter**
2	**Surface and/or subsurface currents**	**10**	**Dissolved inorganic nutrients**
3	**Surface waves**	**11**	**Dissolved oxygen**
4	**Surface winds**	**12**	**Zooplankton species**
5	**Surface salinity**	**13**	**Phytoplankton species**
6	**Surface temperature**	**14**	**Ocean color**
7	**Light penetration**	**15**	**Aerial/satellite imagery**
8	**Bathymetry/bottom type**	**16**	**Other**

	1	2	3	4	6	8	15	16	Count
All Gulf of Maine Respondents	**83%**	**50%**	**78%**	**61%**	**11%**	**39%**	**50%**	**11%**	**18**
Country									
United States	83%	50%	83%	50%	0%	50%	50%	17%	12
Canada	83%	50%	67%	83%	33%	17%	50%	0%	6
State									
MA	100%	43%	100%	57%	0%	43%	43%	0%	7
ME	60%	60%	60%	40%	0%	60%	60%	40%	5
NS	100%	67%	67%	100%	67%	33%	33%	0%	3
NB	67%	33%	67%	67%	0%	0%	67%	0%	3
Program									
Coastal Mgmt	100%	67%	83%	75%	8%	50%	42%	17%	12
NERR	0%	0%	0%	0%	0%	0%	100%	0%	1
ASFPM	50%	0%	50%	0%	0%	50%	100%	0%	2
ASWM	100%	0%	100%	0%	0%	0%	0%	0%	1
Other	50%	50%	100%	100%	50%	0%	50%	0%	2
Location									
HQ / Main Office	82%	47%	76%	59%	12%	35%	47%	12%	17
Field Office	100%	100%	100%	100%	0%	100%	100%	0%	1
Position									
Program Manager	88%	38%	75%	38%	25%	25%	38%	0%	8
Management Staff	100%	100%	100%	100%	0%	0%	0%	0%	1
Technical Staff	86%	71%	86%	86%	0%	71%	71%	29%	7
Policy Staff	50%	0%	50%	50%	0%	0%	50%	0%	2

Q6E: Select no more than THREE of the following IMPROVED TECHNOLOGIES that would best help you to address your most important coastal hazard issues over the next five years.

1 Improved models that simulate and predict
2 Impact zone identification
3 Alternative shoreline protection technologies
4 Advanced detection and/or warning technologies
5 Other

	1	2	3	4	5	Count
All Gulf of Maine Respondents	**84%**	**58%**	**68%**	**47%**	**5%**	**19**
Country						
United States	83%	50%	83%	42%	8%	12
Canada	86%	71%	43%	57%	0%	7
State						
MA	86%	57%	71%	14%	14%	7
ME	80%	40%	100%	80%	0%	5
NS	75%	75%	25%	50%	0%	4
NB	100%	67%	67%	67%	0%	3
Program						
Coastal Mgmt	85%	62%	62%	38%	8%	13
NERR	0%	100%	100%	100%	0%	1
ASFPM	100%	50%	100%	50%	0%	2
ASWM	100%	0%	100%	0%	0%	1
Other	100%	50%	50%	100%	0%	2
Location						
HQ / Main Office	83%	56%	72%	44%	6%	18
Field Office	100%	100%	0%	100%	0%	1
Position						
Program Manager	100%	50%	88%	38%	0%	8
Management Staff	100%	0%	0%	0%	100%	1
Technical Staff	63%	75%	63%	50%	0%	8
Policy Staff	100%	50%	50%	100%	0%	2

Q7: How important will issues related to SEDIMENT MANAGEMENT be to your program over the next five years?

	Very important	Important	Not very important	Not important at all	Not relevant	Count
All Gulf of Maine Respondents	**11%**	**32%**	**49%**	**2%**	**6%**	**63**
Country						
United States	13%	34%	50%	3%	0%	38
Canada	8%	28%	48%	0%	16%	25
State						
MA	6%	44%	50%	0%	0%	16
ME	18%	29%	47%	6%	0%	17
NH	20%	20%	60%	0%	0%	5
NS	7%	21%	50%	0%	21%	14
NB	9%	36%	45%	0%	9%	11
Program						
Coastal Mgmt	15%	24%	52%	0%	9%	33
NERR	20%	60%	0%	20%	0%	5
NEP	0%	0%	100%	0%	0%	6
ASFPM	0%	50%	50%	0%	0%	2
ASWM	50%	50%	0%	0%	0%	2
ASIWPCA	0%	0%	100%	0%	0%	1
IFMC	0%	33%	67%	0%	0%	3
Other	0%	55%	36%	0%	9%	11
Location						
HQ / Main Office	13%	34%	45%	2%	6%	53
Field Office	0%	20%	70%	0%	10%	10
Position						
Program Manager	0%	28%	72%	0%	0%	18
Management Staff	17%	33%	17%	17%	17%	6
Technical Staff	19%	30%	41%	0%	11%	27
Policy Staff	20%	20%	60%	0%	0%	5
Advisory Committee	0%	75%	25%	0%	0%	4
Other	0%	33%	67%	0%	0%	3

Q7A: Select no more than THREE of the following SEDIMENT MANAGEMENT ISSUES that you consider most important to address over the next five years. (Multiple responses possible. Percentages sum to more than 100%.)

1 **Managing the reuse of material**
2 **Identifying disposal options**
3 **Implementing confinement techniques**
4 **Managing sediment resources regionally**
5 **Identifying sediment transport patterns**
6 **Identifying compatible sources for beach nourishment**
7 **Other**

	1	2	3	4	5	6	7	Count
All Gulf of Maine Respondents	40%	52%	24%	48%	64%	36%	12%	25
Country								
United States	41%	47%	18%	53%	59%	47%	12%	17
Canada	38%	63%	38%	38%	75%	13%	13%	8
State								
MA	57%	57%	14%	14%	57%	57%	29%	7
ME	38%	38%	13%	88%	50%	38%	0%	8
NH	0%	50%	50%	50%	100%	50%	0%	2
NS	0%	0%	67%	67%	67%	0%	33%	3
NB	60%	100%	20%	20%	80%	20%	0%	5
Program								
Coastal Mgmt	36%	55%	27%	45%	64%	27%	27%	11
NERR	0%	0%	25%	75%	50%	50%	0%	4
ASFPM	100%	0%	0%	0%	100%	100%	0%	1
ASWM	50%	50%	0%	50%	100%	50%	0%	2
IFMC	100%	100%	0%	0%	0%	100%	0%	1
Other	50%	83%	33%	50%	67%	17%	0%	6
Location								
HQ / Main Office	39%	48%	26%	48%	65%	35%	13%	23
Field Office	50%	100%	0%	50%	50%	50%	0%	2
Position								
Program Manager	60%	60%	0%	40%	60%	40%	0%	5
Management Staff	33%	67%	0%	100%	33%	33%	33%	3
Technical Staff	27%	36%	36%	55%	73%	45%	9%	11
Policy Staff	100%	100%	0%	0%	50%	50%	0%	2
Advisory Committee	33%	33%	33%	33%	67%	0%	33%	3
Other	0%	100%	100%	0%	100%	0%	0%	1

Q7B: Select no more than THREE of the following RESEARCH ACTIVITIES that would best help you to address your most important sediment management issues over the next five years. (Multiple responses possible. Percentages sum to more than 100%.)

1 **Cost-benefit analysis**
2 **Test and validate assessment techniques**
3 **Effectiveness of confinement techniques**
4 **Improved beneficial uses**
5 **Prioritize restoration/protection based on max benefit for cost**
6 **Effects from dredging**
7 **Analysis of impacts of engineering solutions (e.g., jetties)**
8 **Other**

	1	2	3	4	5	6	7	8	Count
All Gulf of Maine Respondents	35%	15%	23%	19%	35%	65%	54%	8%	26
Country									
United States	47%	12%	12%	24%	41%	65%	59%	6%	17
Canada	11%	22%	44%	11%	22%	67%	44%	11%	9
State									
MA	43%	0%	14%	29%	43%	57%	43%	14%	7
ME	50%	25%	13%	25%	38%	63%	63%	0%	8
NH	50%	0%	0%	0%	50%	100%	100%	0%	2
NS	0%	25%	50%	0%	50%	50%	25%	25%	4
NB	20%	20%	40%	20%	0%	80%	60%	0%	5
Program									
Coastal Mgmt	42%	8%	17%	25%	33%	50%	50%	17%	12
NERR	0%	0%	25%	0%	75%	100%	75%	0%	4
ASFPM	100%	0%	0%	0%	0%	100%	100%	0%	1
ASWM	0%	0%	0%	50%	50%	50%	50%	0%	2
IFMC	100%	0%	0%	0%	100%	100%	0%	0%	1
Other	33%	50%	50%	17%	0%	67%	50%	0%	6
Location									
HQ / Main Office	33%	13%	25%	21%	33%	67%	58%	8%	24
Field Office	50%	50%	0%	0%	50%	50%	0%	0%	2
Position									
Program Manager	60%	0%	20%	40%	20%	60%	40%	0%	5
Management Staff	33%	33%	0%	33%	33%	67%	67%	33%	3
Technical Staff	25%	17%	25%	8%	50%	67%	50%	8%	12
Policy Staff	50%	0%	50%	0%	0%	100%	50%	0%	2
Advisory Committee	0%	33%	33%	33%	33%	33%	67%	0%	3
Other	100%	0%	0%	0%	0%	100%	100%	0%	1

Q7C: Select no more than THREE of the following TYPES OF INFORMATION that would best help you to address your most important sediment management issues over the next five years. (Multiple responses possible. Percentages sum to more than 100%.)

1 **Access, retrieval and analysis of data**
2 **Sediment transport patterns**
3 **Beach profile data**
4 **Shoreline characterizations**
5 **State-of-knowledge reports/case studies**
6 **Improved methods and models for quantifying sediment budgets**
7 **Geospatial data for GIS**
8 **Other**

	1	2	3	4	5	6	7	8	Count
All Gulf of Maine Respondents	25%	63%	38%	42%	17%	54%	33%	13%	24
Country									
United States	12%	71%	47%	41%	12%	53%	24%	18%	17
Canada	57%	43%	14%	43%	29%	57%	57%	0%	7
State									
MA	0%	57%	57%	57%	0%	29%	0%	43%	7
ME	25%	75%	50%	38%	25%	63%	25%	0%	8
NH	0%	100%	0%	0%	0%	100%	100%	0%	2
NS	50%	50%	0%	50%	50%	50%	50%	0%	2
NB	60%	40%	20%	40%	20%	60%	60%	0%	5
Program									
Coastal Mgmt	10%	80%	20%	30%	10%	50%	40%	20%	10
NERR	25%	50%	75%	75%	0%	50%	25%	0%	4
ASFPM	0%	100%	100%	100%	0%	0%	0%	0%	1
ASWM	0%	50%	50%	50%	0%	100%	50%	0%	2
IFMC	0%	100%	100%	0%	0%	0%	0%	100%	1
Other	67%	33%	17%	33%	50%	67%	33%	0%	6
Location									
HQ / Main Office	23%	64%	36%	45%	18%	55%	32%	9%	22
Field Office	50%	50%	50%	0%	0%	50%	50%	50%	2
Position									
Program Manager	20%	40%	60%	100%	0%	60%	0%	0%	5
Management Staff	0%	67%	0%	0%	33%	67%	33%	33%	3
Technical Staff	18%	73%	55%	36%	9%	36%	45%	18%	11
Policy Staff	50%	100%	0%	0%	50%	50%	50%	0%	2
Advisory Committee	100%	0%	0%	50%	50%	100%	0%	0%	2
Other	0%	100%	0%	0%	0%	100%	100%	0%	1

Q7D: Select ANY of the following CONTINUOUS OBSERVATION AND MONITORING VARIABLES that you consider necessary to help you address your most important sediment management issues over the next five years. (Multiple responses possible. Percentages sum to more than 100%.)

1	Sea level	9	Organic matter
2	Surface and/or subsurface currents	10	Dissolved inorganic nutrients
3	Surface waves	11	Dissolved oxygen
4	Surface winds	12	Zooplankton species
5	Surface salinity	13	Phytoplankton species
6	Surface temperature	14	Ocean color
7	Light penetration	15	Aerial/satellite imagery
8	Bathymetry/bottom type	16	Other

	1	2	3	4	5	6	7	8	9	10	11	12	13	15	16	Count
All Gulf of Maine Respondents	43%	48%	48%	35%	4%	4%	9%	52%	26%	13%	4%	9%	13%	52%	17%	23
Country																
United States	53%	60%	53%	33%	0%	0%	7%	60%	13%	0%	0%	7%	7%	60%	13%	15
Canada	25%	25%	38%	38%	13%	13%	13%	38%	50%	38%	13%	13%	25%	38%	25%	8
State																
MA	71%	29%	57%	29%	0%	0%	0%	43%	0%	0%	0%	14%	14%	86%	0%	7
ME	50%	83%	50%	33%	0%	0%	17%	83%	33%	0%	0%	0%	0%	33%	33%	6
NH	0%	100%	50%	50%	0%	0%	0%	50%	0%	0%	0%	0%	0%	50%	0%	2
NS	33%	33%	33%	0%	0%	0%	0%	33%	67%	33%	0%	0%	0%	0%	33%	3
NB	20%	20%	40%	60%	20%	20%	20%	40%	40%	40%	20%	20%	40%	60%	20%	5
Program																
Coastal Mgmt	55%	55%	55%	36%	0%	0%	0%	55%	9%	0%	0%	0%	0%	36%	27%	11
NERR	50%	100%	50%	50%	0%	0%	0%	100%	50%	0%	0%	0%	0%	50%	0%	2
ASFPM	100%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	1
ASWM	50%	50%	0%	0%	0%	0%	0%	50%	0%	0%	0%	0%	0%	100%	0%	2
IFMC	100%	100%	100%	100%	0%	0%	0%	100%	0%	0%	0%	100%	100%	100%	0%	1
Other	0%	17%	33%	33%	17%	17%	33%	33%	67%	50%	17%	17%	33%	50%	17%	6
Location																
HQ / Main Office	43%	48%	48%	33%	5%	5%	10%	52%	24%	10%	5%	0%	5%	52%	14%	21
Field Office	50%	50%	50%	50%	0%	0%	0%	50%	50%	50%	0%	100%	100%	50%	50%	2
Position																
Program Manager	100%	25%	75%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	75%	0%	4
Management Staff	0%	33%	0%	0%	0%	0%	33%	100%	33%	0%	0%	0%	0%	67%	0%	3
Technical Staff	50%	70%	50%	40%	0%	0%	0%	70%	30%	10%	0%	20%	20%	50%	30%	10
Policy Staff	50%	0%	50%	100%	0%	0%	0%	50%	0%	0%	0%	0%	0%	100%	0%	2
Advisory Committee	0%	33%	33%	33%	33%	33%	33%	33%	67%	67%	33%	0%	33%	0%	33%	3
Other	0%	100%	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	1

Q7E: Select no more than THREE of the following IMPROVED TECHNOLOGIES that would best help you to address your most important sediment management issues over the next five years. (Multiple responses possible. Percentages sum to more than 100%.)

1 **Improved models that simulate and/or predict**
2 **Engineering solutions**
3 **Methods for quantifying sediment budgets**
4 **Containment and stabilization technologies**
5 **Treatment technologies**
6 **Remote sampling**
7 **Other**

	1	2	3	4	5	6	Count
All Gulf of Maine Respondents	68%	40%	52%	52%	28%	20%	25
Country							
United States	65%	41%	47%	47%	29%	29%	17
Canada	75%	38%	63%	63%	25%	0%	8
State							
MA	57%	29%	29%	71%	29%	29%	7
ME	63%	38%	63%	25%	38%	38%	8
NH	100%	100%	50%	50%	0%	0%	2
NS	33%	67%	0%	100%	33%	0%	3
NB	100%	20%	100%	40%	20%	0%	5
Program							
Coastal Mgmt	73%	55%	45%	36%	27%	27%	11
NERR	25%	0%	50%	50%	25%	50%	4
ASFPM	100%	100%	100%	0%	0%	0%	1
ASWM	50%	50%	50%	100%	0%	0%	2
IFMC	100%	0%	0%	100%	100%	0%	1
Other	83%	33%	67%	67%	33%	0%	6
Location							
HQ / Main Office	65%	43%	52%	52%	26%	22%	23
Field Office	100%	0%	50%	50%	50%	0%	2
Position							
Program Manager	60%	60%	60%	60%	20%	0%	5
Management Staff	67%	67%	0%	67%	33%	33%	3
Technical Staff	64%	18%	55%	45%	36%	36%	11
Policy Staff	100%	50%	100%	0%	50%	0%	2
Advisory Committee	67%	33%	33%	100%	0%	0%	3
Other	100%	100%	100%	0%	0%	0%	1

Q8: How important will issues related to OCEAN MANAGEMENT be to your program over the next five years?

	Very important	Important	Not very important	Not important at all	Not relevant	Count
All Gulf of Maine Respondents	**35%**	**33%**	**27%**	**3%**	**2%**	**63**
Country						
United States	21%	37%	37%	3%	3%	38
Canada	56%	28%	12%	4%	0%	25
State						
MA	38%	44%	19%	0%	0%	16
ME	12%	41%	35%	6%	6%	17
NH	0%	0%	100%	0%	0%	5
NS	43%	29%	21%	7%	0%	14
NB	73%	27%	0%	0%	0%	11
Program						
Coastal Mgmt	45%	36%	15%	3%	0%	33
NERR	0%	40%	40%	0%	20%	5
NEP	0%	17%	83%	0%	0%	6
ASFPM	0%	50%	50%	0%	0%	2
ASWM	0%	50%	50%	0%	0%	2
ASIWPCA	0%	100%	0%	0%	0%	1
IFMC	67%	33%	0%	0%	0%	3
Other	45%	18%	27%	9%	0%	11
Location						
HQ / Main Office	30%	34%	30%	4%	2%	53
Field Office	60%	30%	10%	0%	0%	10
Position						
Program Manager	33%	28%	39%	0%	0%	18
Management Staff	33%	17%	50%	0%	0%	6
Technical Staff	41%	37%	11%	7%	4%	27
Policy Staff	40%	60%	0%	0%	0%	5
Advisory Committee	25%	50%	25%	0%	0%	4
Other	0%	0%	100%	0%	0%	3

Q8A: Select no more than THREE of the following OCEAN MANAGEMENT ISSUES that you consider most important to address over the next five years. (Multiple responses possible. Percentages sum to more than 100%.)

1 Reconciling conflicting uses
2 Loss of habitat or biodiversity
3 Design and implement Marine Managed Areas
4 Accommodating compatible economic activities (resource extraction, whale watching, etc)
5 Permitting of emerging uses such as transportation/transmission corridors (pipelines, cables), aquaculture, energy production, etc.
6 Accommodating National security/law enforcement activities
7 Other

	1	2	3	4	5	6	7	Count
All Gulf of Maine Respondents	74%	63%	37%	33%	47%	5%	9%	43
Country								
United States	68%	68%	36%	23%	50%	9%	14%	22
Canada	81%	57%	38%	43%	43%	0%	5%	21
State								
MA	69%	77%	38%	23%	46%	8%	15%	13
ME	67%	56%	33%	22%	56%	11%	11%	9
NS	70%	60%	30%	40%	30%	0%	10%	10
NB	91%	55%	45%	45%	55%	0%	0%	11
Program								
Coastal Mgmt	74%	63%	30%	33%	48%	4%	11%	27
NERR	50%	100%	50%	0%	0%	0%	0%	2
NEP	100%	100%	100%	0%	0%	0%	0%	1
ASFPM	100%	0%	0%	0%	100%	100%	0%	1
ASWM	100%	0%	100%	0%	100%	0%	0%	1
ASIWPCA	0%	100%	0%	0%	0%	0%	100%	1
IFMC	67%	67%	67%	67%	33%	0%	0%	3
Other	86%	57%	43%	43%	57%	0%	0%	7
Location								
HQ / Main Office	74%	62%	32%	35%	47%	6%	6%	34
Field Office	78%	67%	56%	22%	44%	0%	22%	9
Position								
Program Manager	82%	55%	64%	27%	45%	9%	0%	11
Management Staff	100%	67%	33%	0%	33%	0%	33%	3
Technical Staff	62%	76%	33%	24%	48%	5%	14%	21
Policy Staff	100%	20%	0%	80%	80%	0%	0%	5
Advisory Committee	67%	67%	33%	67%	0%	0%	0%	3

Q8B: Select no more than THREE of the following RESEARCH ACTIVITIES that would best help you to address your most important ocean management issues over the next five years. (Multiple responses possible. Percentages sum to more than 100%.)

1 **Effects of changes in community composition on historic use and values.**
2 **Cumulative impact assessments**
3 **Economic assessments**
4 Ecological characterizations
5 **Marine Managed Area effectiveness**
6 **Feasibility of alternative energy sources**
7 **Identifying migration routes (fish, marine mammals, birds, etc.)**
8 **State-of-knowledge reports/case studies**
9 **Risk assessments**
10 **Other**

	1	2	3	4	5	6	7	8	9	10	Count
All Gulf of Maine Respondents	37%	49%	30%	70%	26%	14%	35%	16%	16%	2%	43
Country											
United States	36%	45%	27%	82%	23%	23%	41%	9%	5%	5%	22
Canada	38%	52%	33%	57%	29%	5%	29%	24%	29%	0%	21
State											
MA	23%	46%	23%	100%	31%	23%	38%	8%	0%	8%	13
ME	56%	44%	33%	56%	11%	22%	44%	11%	11%	0%	9
NS	40%	40%	40%	60%	20%	0%	20%	30%	40%	0%	10
NB	36%	64%	27%	55%	36%	9%	36%	18%	18%	0%	11
Program											
Coastal Mgmt	44%	56%	30%	63%	19%	7%	30%	22%	22%	4%	27
NERR	50%	0%	0%	100%	0%	50%	100%	0%	0%	0%	2
NEP	0%	0%	0%	100%	100%	0%	100%	0%	0%	0%	1
ASFPM	100%	0%	0%	0%	0%	0%	0%	0%	100%	0%	1
ASWM	0%	0%	0%	100%	100%	100%	0%	0%	0%	0%	1
ASIWPCA	0%	100%	100%	100%	0%	0%	0%	0%	0%	0%	1
IFMC	33%	33%	33%	100%	0%	33%	67%	0%	0%	0%	3
Other	14%	57%	43%	71%	57%	14%	29%	14%	0%	0%	7
Location											
HQ / Main Office	35%	50%	26%	68%	29%	15%	32%	18%	18%	3%	34
Field Office	44%	44%	44%	78%	11%	11%	44%	11%	11%	0%	9
Position											
Program Manager	45%	45%	27%	64%	36%	9%	27%	18%	18%	0%	11
Management Staff	0%	0%	33%	100%	33%	0%	67%	33%	0%	33%	3
Technical Staff	33%	48%	29%	71%	19%	24%	38%	19%	14%	0%	21
Policy Staff	60%	80%	40%	40%	20%	0%	40%	0%	20%	0%	5
Advisory Committee	33%	67%	33%	100%	33%	0%	0%	0%	33%	0%	3

Q8C: Select no more than THREE of the following TYPES OF INFORMATION that would best help you to address your most important ocean management issues over the next five years. (Multiple responses possible. Percentages sum to more than 100%.)

1 **More geospatial data for GIS (i.e., benthic maps, jurisdictional boundaries, etc)**
2 **Anecdotal/traditional use data**
3 **Access, retrieval and analysis of data**
4 **State-of-knowledge reports/case studies**
5 **Other**

	1	2	3	4	5	Count
All Gulf of Maine Respondents	88%	51%	63%	41%	12%	41
Country						
United States	86%	45%	64%	27%	14%	22
Canada	89%	58%	63%	58%	11%	19
State						
MA	77%	38%	54%	31%	15%	13
ME	100%	56%	78%	22%	11%	9
NS	88%	38%	75%	100%	0%	8
NB	91%	73%	55%	27%	18%	11
Program						
Coastal Mgmt	96%	52%	60%	40%	16%	25
NERR	100%	50%	100%	0%	0%	2
NEP	100%	0%	0%	0%	0%	1
ASFPM	100%	0%	100%	0%	0%	1
ASWM	0%	0%	0%	100%	0%	1
ASIWPCA	100%	0%	100%	100%	0%	1
IFMC	67%	100%	67%	33%	0%	3
Other	71%	57%	71%	57%	14%	7
Location						
HQ / Main Office	91%	50%	59%	38%	13%	32
Field Office	78%	56%	78%	56%	11%	9
Position						
Program Manager	91%	36%	73%	18%	9%	11
Management Staff	100%	67%	67%	33%	0%	3
Technical Staff	85%	45%	60%	50%	20%	20
Policy Staff	100%	80%	40%	60%	0%	5
Advisory Committee	50%	100%	100%	50%	0%	2

Q8D: Select ANY of the following CONTINUOUS OBSERVATION AND MONITORING VARIABLES that you consider necessary to help you address your most important ocean management issues over the next five years. (Multiple responses possible. Percentages sum to more than 100%.)

1	Sea level	9	Organic matter
2	Surface and/or subsurface currents	10	Dissolved inorganic nutrients
3	Surface waves	11	Dissolved oxygen
4	Surface winds	12	Zooplankton species
5	Surface salinity	13	Phytoplankton species
6	Surface temperature	14	Ocean color
7	Light penetration	15	Aerial/satellite imagery
8	Bathymetry/bottom type	16	Other

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Count
All Gulf of Maine Respondents	31%	38%	21%	21%	18%	26%	23%	51%	26%	31%	28%	36%	38%	13%	69%	18%	39
Country																	
United States	19%	33%	19%	14%	19%	29%	19%	62%	10%	24%	29%	33%	33%	5%	67%	14%	21
Canada	44%	44%	22%	28%	17%	22%	28%	39%	44%	39%	28%	39%	44%	22%	72%	22%	18
State																	
MA	23%	31%	15%	15%	23%	38%	23%	69%	15%	31%	46%	38%	38%	8%	69%	15%	13
ME	13%	38%	25%	13%	13%	13%	13%	50%	0%	13%	0%	25%	25%	0%	63%	13%	8
NS	50%	38%	38%	50%	25%	38%	38%	38%	25%	50%	38%	38%	38%	25%	75%	13%	8
NB	40%	50%	10%	10%	10%	10%	20%	40%	60%	30%	20%	40%	50%	20%	70%	30%	10
Program																	
Coastal Mgmt	33%	50%	29%	29%	21%	25%	25%	63%	25%	29%	17%	38%	33%	17%	71%	17%	24
NERR	100%	0%	0%	0%	0%	50%	0%	50%	0%	50%	50%	50%	100%	0%	100%	0%	2
NEP	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	1
ASFPM	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	1
ASWM	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	1
ASIWPCA	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	100%	100%	1
IFMC	33%	33%	0%	0%	33%	33%	33%	67%	0%	0%	0%	67%	67%	0%	67%	33%	3
Other	17%	33%	17%	17%	17%	33%	33%	17%	67%	67%	67%	33%	50%	17%	67%	17%	6
Location																	
HQ / Main Office	29%	35%	19%	19%	16%	26%	19%	48%	23%	29%	29%	29%	32%	10%	68%	10%	31
Field Office	38%	50%	25%	25%	25%	25%	38%	63%	38%	38%	25%	63%	63%	25%	75%	50%	8
Position																	
Program Manager	27%	18%	0%	9%	9%	9%	9%	45%	9%	9%	9%	27%	27%	18%	55%	27%	11
Management Staff	67%	67%	67%	67%	33%	33%	33%	100%	33%	33%	33%	33%	33%	33%	67%	0%	3
Technical Staff	37%	42%	26%	21%	21%	32%	26%	58%	26%	37%	32%	47%	47%	11%	74%	21%	19
Policy Staff	0%	50%	25%	25%	25%	25%	25%	25%	50%	25%	25%	25%	25%	0%	100%	0%	4
Advisory Committee	0%	50%	0%	0%	0%	50%	50%	0%	50%	100%	100%	0%	50%	0%	50%	0%	2

Q8E: Select no more than THREE of the following IMPROVED TECHNOLOGIES that would best help you to address your most important ocean management issues over the next five years. (Multiple responses possible. Percentages sum to more than 100%.)

1 **Improved models that simulate and/or predict**
2 **Nondestructive bottom fishing gear**
3 **No-impact aquaculture techniques**
4 **Low-cost remote vessel tracking**
5 **Energy technology**
6 **Mapping and data acquisition**
7 **Other**

	1	2	3	4	5	6	7	Count
All Gulf of Maine Respondents	46%	59%	49%	15%	24%	66%	15%	41
Country								
United States	32%	50%	41%	23%	32%	68%	18%	22
Canada	63%	68%	58%	5%	16%	63%	11%	19
State								
MA	31%	62%	31%	23%	38%	62%	31%	13
ME	33%	33%	56%	22%	22%	78%	0%	9
NS	63%	75%	50%	13%	13%	63%	0%	8
NB	64%	64%	64%	0%	18%	64%	18%	11
Program								
Coastal Mgmt	48%	48%	48%	12%	16%	80%	20%	25
NERR	50%	50%	0%	50%	50%	50%	0%	2
NEP	0%	100%	100%	0%	100%	0%	0%	1
ASFPM	0%	0%	0%	0%	0%	100%	0%	1
ASWM	100%	100%	0%	0%	100%	0%	0%	1
ASIWPCA	100%	0%	0%	0%	0%	100%	100%	1
IFMC	0%	100%	67%	33%	33%	67%	0%	3
Other	57%	86%	71%	14%	29%	29%	0%	7
Location								
HQ / Main Office	50%	53%	47%	13%	28%	63%	16%	32
Field Office	33%	78%	56%	22%	11%	78%	11%	9
Position								
Program Manager	45%	55%	55%	0%	36%	73%	9%	11
Management Staff	33%	33%	33%	33%	0%	100%	33%	3
Technical Staff	40%	65%	40%	20%	20%	70%	20%	20
Policy Staff	60%	60%	80%	20%	20%	40%	0%	5
Advisory Committee	100%	50%	50%	0%	50%	0%	0%	2

Q9: How important will issues related to MARINE DEBRIS be to your program over the next five years?

	Very important	Important	Not very important	Not important at all	Not relevant	Count
All Gulf of Maine Respondents	**2%**	**13%**	**65%**	**13%**	**8%**	**63**
Country						
United States	0%	8%	68%	16%	8%	38
Canada	4%	20%	60%	8%	8%	25
State						
MA	0%	6%	69%	19%	6%	16
ME	0%	12%	59%	18%	12%	17
NH	0%	0%	100%	0%	0%	5
NS	0%	7%	71%	14%	7%	14
NB	9%	36%	45%	0%	9%	11
Program						
Coastal Mgmt	3%	15%	64%	15%	3%	33
NERR	0%	20%	40%	0%	40%	5
NEP	0%	0%	83%	17%	0%	6
ASFPM	0%	50%	0%	50%	0%	2
ASWM	0%	0%	100%	0%	0%	2
ASIWPCA	0%	0%	0%	0%	100%	1
IFMC	0%	0%	100%	0%	0%	3
Other	0%	9%	73%	9%	9%	11
Location						
HQ / Main Office	2%	13%	66%	13%	6%	53
Field Office	0%	10%	60%	10%	20%	10
Position						
Program Manager	0%	17%	78%	6%	0%	18
Management Staff	17%	0%	33%	33%	17%	6
Technical Staff	0%	7%	63%	15%	15%	27
Policy Staff	0%	20%	80%	0%	0%	5
Advisory Committee	0%	50%	50%	0%	0%	4
Other	0%	0%	67%	33%	0%	3

Q9A: Select no more than THREE of the following MARINE DEBRIS ISSUES that you consider most important to address over the next five years. (Multiple responses possible. Percentages sum to more than 100%.)

1 Source identification
2 Wildlife entanglement or ingestion
3 Public health impacts
4 Aesthetic/habitat degradation
5 Hazard to navigation
6 Removal and disposal of retrieved debris
7 Other

	1	2	3	4	6	7	Count
All Gulf of Maine Respondents	**78%**	**56%**	**11%**	**67%**	**44%**	**11%**	**9**
Country							
United States	67%	67%	0%	33%	33%	33%	3
Canada	83%	50%	17%	83%	50%	0%	6
State							
MA	100%	100%	0%	0%	100%	0%	1
ME	50%	50%	0%	50%	0%	50%	2
NS	100%	100%	0%	0%	0%	0%	1
NB	80%	40%	20%	100%	60%	0%	5
Program							
Coastal Mgmt	80%	60%	20%	80%	60%	0%	5
NERR	100%	100%	0%	100%	0%	0%	1
ASFPM	0%	0%	0%	0%	0%	100%	1
Other	100%	50%	0%	50%	50%	0%	2
Location							
HQ / Main Office	71%	43%	14%	71%	57%	14%	7
Field Office	100%	100%	0%	50%	0%	0%	2
Position							
Program Manager	67%	67%	0%	33%	33%	33%	3
Management Staff	100%	50%	0%	50%	50%	0%	2
Technical Staff	100%	50%	50%	100%	0%	0%	2
Policy Staff	0%	100%	0%	100%	100%	0%	1
Advisory Committee	100%	0%	0%	100%	100%	0%	1

Q9B: Select no more than THREE of the following RESEARCH ACTIVITIES that would best help you to address your most important marine debris issues over the next five years.

1 Source tracking
2 Biodegradable gear
3 Ecological impacts
4 Perceptions and behaviors linked to sources
5 Public education effectiveness
6 Transport of debris
7 Biodegradable products (e.g., packing materials)
8 Other

	1	2	3	4	5	6	7	Count
All Gulf of Maine Respondents	**50%**	**20%**	**60%**	**40%**	**30%**	**20%**	**40%**	**10**
Country								
United States	33%	33%	33%	67%	33%	0%	33%	3
Canada	57%	14%	71%	29%	29%	29%	43%	7
State								
MA	100%	0%	0%	100%	100%	0%	0%	1
ME	0%	50%	50%	50%	0%	0%	50%	2
NS	50%	0%	100%	0%	0%	50%	0%	2
NB	60%	20%	60%	40%	40%	20%	60%	5
Program								
Coastal Mgmt	50%	17%	50%	50%	50%	17%	33%	6
NERR	0%	100%	100%	0%	0%	0%	100%	1
ASFPM	0%	0%	0%	100%	0%	0%	0%	1
Other	100%	0%	100%	0%	0%	50%	50%	2
Location								
HQ / Main Office	38%	25%	50%	50%	38%	13%	38%	8
Field Office	100%	0%	100%	0%	0%	50%	50%	2
Position								
Program Manager	67%	0%	33%	67%	33%	0%	33%	3
Management Staff	100%	0%	50%	0%	50%	100%	0%	2
Technical Staff	0%	50%	100%	50%	50%	0%	50%	2
Policy Staff	0%	100%	0%	100%	0%	0%	100%	1
Advisory Committee	50%	0%	100%	0%	0%	0%	50%	2

Q9C: Select no more than THREE of the following INFORMATION ITEMS that would best help you to address your most important marine debris issues over the next five years.

1 Geospatial data for GIS
2 State-of-knowledge reports/success stories
3 Debris inventory
4 Public outreach and education
5 Other

	1	2	3	4	5	Count
All Gulf of Maine Respondents	**70%**	**30%**	**50%**	**100%**	**10%**	**10**
Country						
United States	67%	33%	100%	100%	0%	3
Canada	71%	29%	29%	100%	14%	7
State						
MA	0%	100%	100%	100%	0%	1
ME	100%	0%	100%	100%	0%	2
NS	50%	50%	0%	100%	0%	2
NB	80%	20%	40%	100%	20%	5
Program						
Coastal Mgmt	50%	33%	33%	100%	17%	6
NERR	100%	0%	100%	100%	0%	1
ASFPM	100%	0%	100%	100%	0%	1
Other	100%	50%	50%	100%	0%	2
Location						
HQ / Main Office	63%	25%	63%	100%	0%	8
Field Office	100%	50%	0%	100%	50%	2
Position						
Program Manager	67%	33%	67%	100%	33%	3
Management Staff	100%	50%	50%	100%	0%	2
Technical Staff	50%	50%	50%	100%	0%	2
Policy Staff	100%	0%	0%	100%	0%	1
Advisory Committee	50%	0%	50%	100%	0%	2

Q9D: Select ANY of the following CONTINUOUS OBSERVATION AND MONITORING VARIABLES that you consider necessary to help you address your most important marine debris issues over the next five years.

1	**Sea level**	**9**	**Organic matter**
2	**Surface and/or subsurface currents**	**10**	**Dissolved inorganic nutrients**
3	**Surface waves**	**11**	**Dissolved oxygen**
4	**Surface winds**	**12**	**Zooplankton species**
5	**Surface salinity**	**13**	**Phytoplankton species**
6	**Surface temperature**	**14**	**Ocean color**
7	**Light penetration**	**15**	**Aerial/satellite imagery**
8	**Bathymetry/bottom type**	**16**	**Other**

	1	2	3	4	5	6	7	8	9	10	11	12	13	15	16	Count
All Gulf of Maine Respondents	**25%**	**63%**	**38%**	**38%**	**13%**	**13%**	**13%**	**13%**	**13%**	**13%**	**13%**	**13%**	**25%**	**38%**	**13%**	**8**
Country																
United States	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	3
Canada	40%	100%	60%	60%	20%	20%	20%	20%	20%	20%	20%	20%	40%	0%	20%	5
State																
MA	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	1
ME	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	2
NB	40%	100%	60%	60%	20%	20%	20%	20%	20%	20%	20%	20%	40%	0%	20%	5
Program																
Coastal Mgmt	40%	80%	60%	60%	0%	0%	0%	20%	0%	0%	0%	20%	20%	20%	20%	5
NERR	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	1
ASFPM	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	1
Other	0%	100%	0%	0%	100%	100%	100%	0%	100%	100%	100%	0%	100%	0%	0%	1
Location																
HQ / Main Office	14%	57%	29%	29%	14%	14%	14%	0%	14%	14%	14%	14%	29%	43%	0%	7
Field Office	100%	100%	100%	100%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	100%	1
Position																
Program Manager	33%	33%	33%	33%	0%	0%	0%	33%	0%	0%	0%	0%	0%	67%	33%	3
Management Staff	100%	100%	100%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	1
Technical Staff	0%	50%	50%	50%	0%	0%	0%	0%	0%	0%	0%	0%	0%	50%	0%	2
Policy Staff	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	100%	0%	0%	1
Advisory Committee	0%	100%	0%	0%	100%	100%	100%	0%	100%	100%	100%	0%	100%	0%	0%	1

Q9E: Select no more than THREE of the following IMPROVED TECHNOLOGIES that would best help you to address your most important marine debris issues over the next five years.

1 Debris removal technology
2 GPS tracking systems for potential sources of debris (nets, containers,etc)
3 Gear modifications to make less harmful to non-target species and habitat
4 Disposal or reuse technologies
5 Other

	1	2	3	4	Count
All Gulf of Maine Respondents	**50%**	**100%**	**88%**	**63%**	**8**
Country					
United States	50%	100%	100%	50%	2
Canada	50%	100%	83%	67%	6
State					
MA	100%	100%	100%	0%	1
ME	0%	100%	100%	100%	1
NS	0%	100%	100%	100%	1
NB	60%	100%	80%	60%	5
Program					
Coastal Mgmt	60%	100%	80%	60%	5
NERR	0%	100%	100%	100%	1
Other	50%	100%	100%	50%	2
Location					
HQ / Main Office	67%	100%	83%	50%	6
Field Office	0%	100%	100%	100%	2
Position					
Program Manager	50%	100%	100%	50%	2
Management Staff	50%	100%	50%	100%	2
Technical Staff	0%	100%	100%	100%	2
Policy Staff	100%	100%	100%	0%	1
Advisory Committee	100%	100%	100%	0%	1