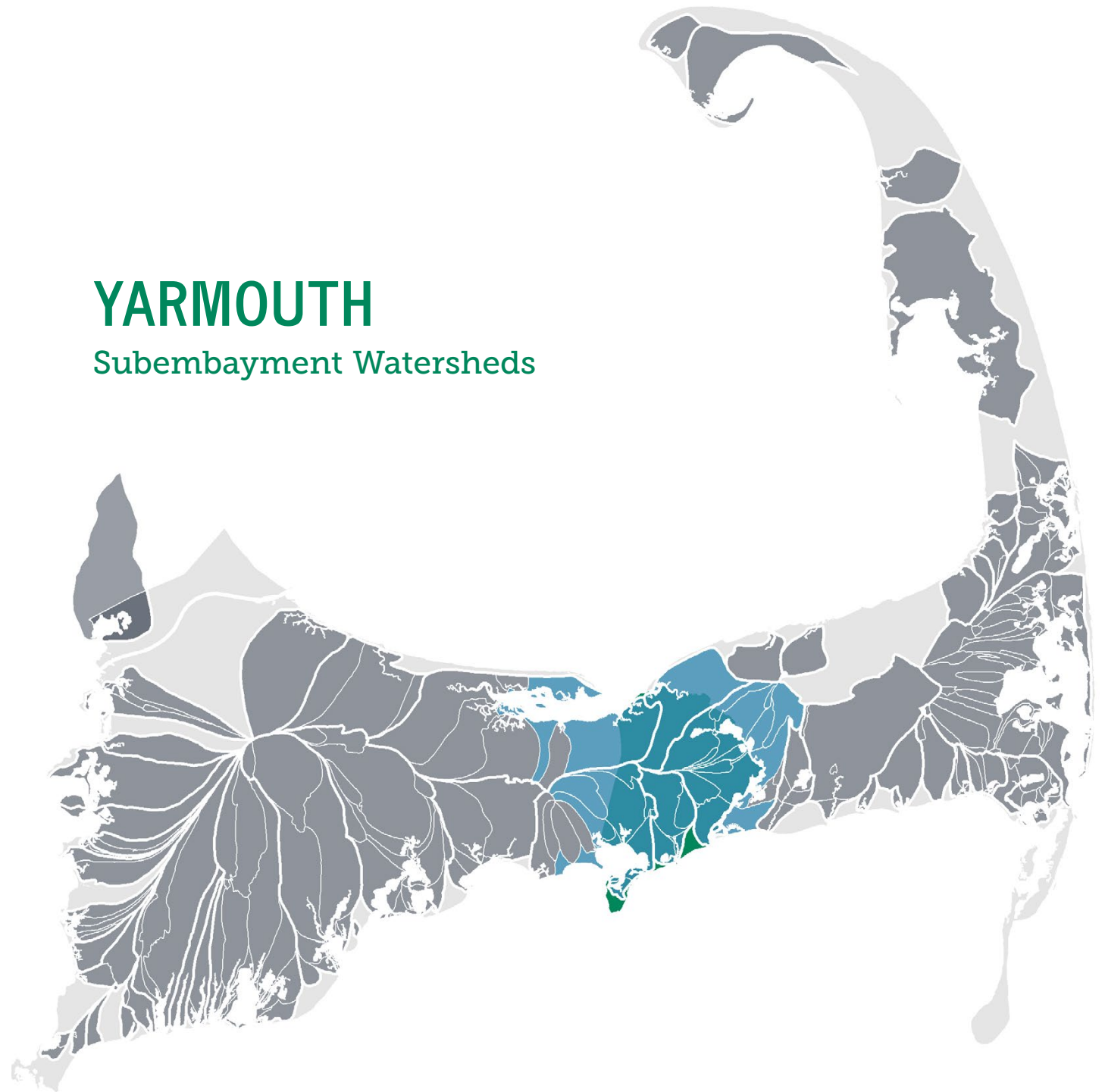


# YARMOUTH

Subembayment Watersheds



## The following definitions are used to describe nitrogen responsibility:

**Unattenuated load:** the controllable nitrogen load, in kg, deposited in the watershed

**Attenuated load:** the controllable nitrogen load, in kilograms (kg), from the watershed that reaches the embayment after the effect of natural attenuation in wetlands or ponds

**Threshold:** the amount of nitrogen, in kg, that a water body can receive and still meet water quality goals; this number is based on Massachusetts Estuaries Project (MEP) technical reports or Total Maximum Daily Load (TMDL) reports

**Reduction target:** the amount of nitrogen, in kg, that needs to be removed from the watershed to achieve the threshold; this number is calculated by subtracting the threshold number from the controllable attenuated load

**Percent contribution:** the percent of controllable attenuated load that a town contributes to the watershed

**Kilogram responsibility:** is calculated by applying the percent contribution to the reduction target and indicates the amount of nitrogen, in kg, that a community is responsible for addressing

## BARNSTABLE HARBOR

### SUBEMBAYMENT: BARNSTABLE HARBOR

Unattenuated Load (kg.)	Attenuated Load (kg.)	Threshold (kg.)	Reduction Target (kg.)	Percent Contribution	Kilogram Responsibility	Additional Contributing Towns
36,557	36,557	N/A	N/A	14%	N/A	Barnstable (82%), Sandwich (4%)

## BASS RIVER

### SUBEMBAYMENT: BASS RIVER LOWER

Unattenuated Load (kg.)	Attenuated Load (kg.)	Threshold (kg.)	Reduction Target (kg.)	Percent Contribution	Kilogram Responsibility	Additional Contributing Towns
26,515	20,833	20,816	17	59%	10	Dennis (41%)

### SUBEMBAYMENT: BASS RIVER MIDDLE

Unattenuated Load (kg.)	Attenuated Load (kg.)	Threshold (kg.)	Reduction Target (kg.)	Percent Contribution	Kilogram Responsibility	Additional Contributing Towns
22,820	21,751	10,889	10,862	67%	7,258	Dennis (33%)

### SUBEMBAYMENT: DINAH'S POND

Unattenuated Load (kg.)	Attenuated Load (kg.)	Threshold (kg.)	Reduction Target (kg.)	Percent Contribution	Kilogram Responsibility	Additional Contributing Towns
1,939	1,939	284	1,655	100%	1,655	N/A

### SUBEMBAYMENT: FOLLINS POND

Unattenuated Load (kg.)	Attenuated Load (kg.)	Threshold (kg.)	Reduction Target (kg.)	Percent Contribution	Kilogram Responsibility	Additional Contributing Towns
11,913	11,586	2,868	8,718	39%	3,357	Dennis (61%)

### SUBEMBAYMENT: KELLEYS BAY

Unattenuated Load (kg.)	Attenuated Load (kg.)	Threshold (kg.)	Reduction Target (kg.)	Percent Contribution	Kilogram Responsibility	Additional Contributing Towns
6,732	6,671	1,409	5,262	17%	891	Brewster (1%), Dennis (82%)

## YARMOUTH: Subembayment Watersheds

### SUBEMBAYMENT: MILL POND AND STREAM

Unattenuated Load (kg.)	Attenuated Load (kg.)	Threshold (kg.)	Reduction Target (kg.)	Percent Contribution	Kilogram Responsibility	Additional Contributing Towns
10,198	8,889	2,864	6,025	89%	5,384	Dennis (11%)

## CHASE GARDEN CREEK

### SUBEMBAYMENT: CHASE GARDEN CREEK

Unattenuated Load (kg.)	Attenuated Load (kg.)	Threshold (kg.)	Reduction Target (kg.)	Percent Contribution	Kilogram Responsibility	Additional Contributing Towns
27,738	27,738	N/A	N/A	48%	N/A	Dennis (52%)

## LEWIS BAY

### SUBEMBAYMENT: HYANNIS INNER HARBOR

Unattenuated Load (kg.)	Attenuated Load (kg.)	Threshold (kg.)	Reduction Target (kg.)	Percent Contribution	Kilogram Responsibility	Additional Contributing Towns
7,317	6,903	2,716	4,187	17%	716	Barnstable (83%)

### SUBEMBAYMENT: LEWIS BAY

Unattenuated Load (kg.)	Attenuated Load (kg.)	Threshold (kg.)	Reduction Target (kg.)	Percent Contribution	Kilogram Responsibility	Additional Contributing Towns
14,642	14,539	3,527	11,012	75%	8,275	Barnstable (25%)

### SUBEMBAYMENT: MILL CREEK

Unattenuated Load (kg.)	Attenuated Load (kg.)	Threshold (kg.)	Reduction Target (kg.)	Percent Contribution	Kilogram Responsibility	Additional Contributing Towns
14,818	11,928	8,154	3,774	83%	3,114	Barnstable (17%)

### SUBEMBAYMENT: UNCLE ROBERTS COVE

Unattenuated Load (kg.)	Attenuated Load (kg.)	Threshold (kg.)	Reduction Target (kg.)	Percent Contribution	Kilogram Responsibility	Additional Contributing Towns
203	203	197	6	100%	6	N/A

## PARKERS RIVER

### SUBEMBAYMENT: LEWIS POND

Unattenuated Load (kg.)	Attenuated Load (kg.)	Threshold (kg.)	Reduction Target (kg.)	Percent Contribution	Kilogram Responsibility	Additional Contributing Towns
6,065	6,056	2,600	3,456	100%	3,456	N/A

### SUBEMBAYMENT: LOWER PARKERS RIVER

Unattenuated Load (kg.)	Attenuated Load (kg.)	Threshold (kg.)	Reduction Target (kg.)	Percent Contribution	Kilogram Responsibility	Additional Contributing Towns
3,069	3,069	1,830	1,239	100%	1,239	N/A

### SUBEMBAYMENT: SEINE POND

Unattenuated Load (kg.)	Attenuated Load (kg.)	Threshold (kg.)	Reduction Target (kg.)	Percent Contribution	Kilogram Responsibility	Additional Contributing Towns
8,747	6,071	0	6,071	100%	6,071	N/A

### SUBEMBAYMENT: UPPER PARKERS RIVER

Unattenuated Load (kg.)	Attenuated Load (kg.)	Threshold (kg.)	Reduction Target (kg.)	Percent Contribution	Kilogram Responsibility	Additional Contributing Towns
9,124	7,126	3,061	4,065	>99%	4,054	Barnstable (<1%)

