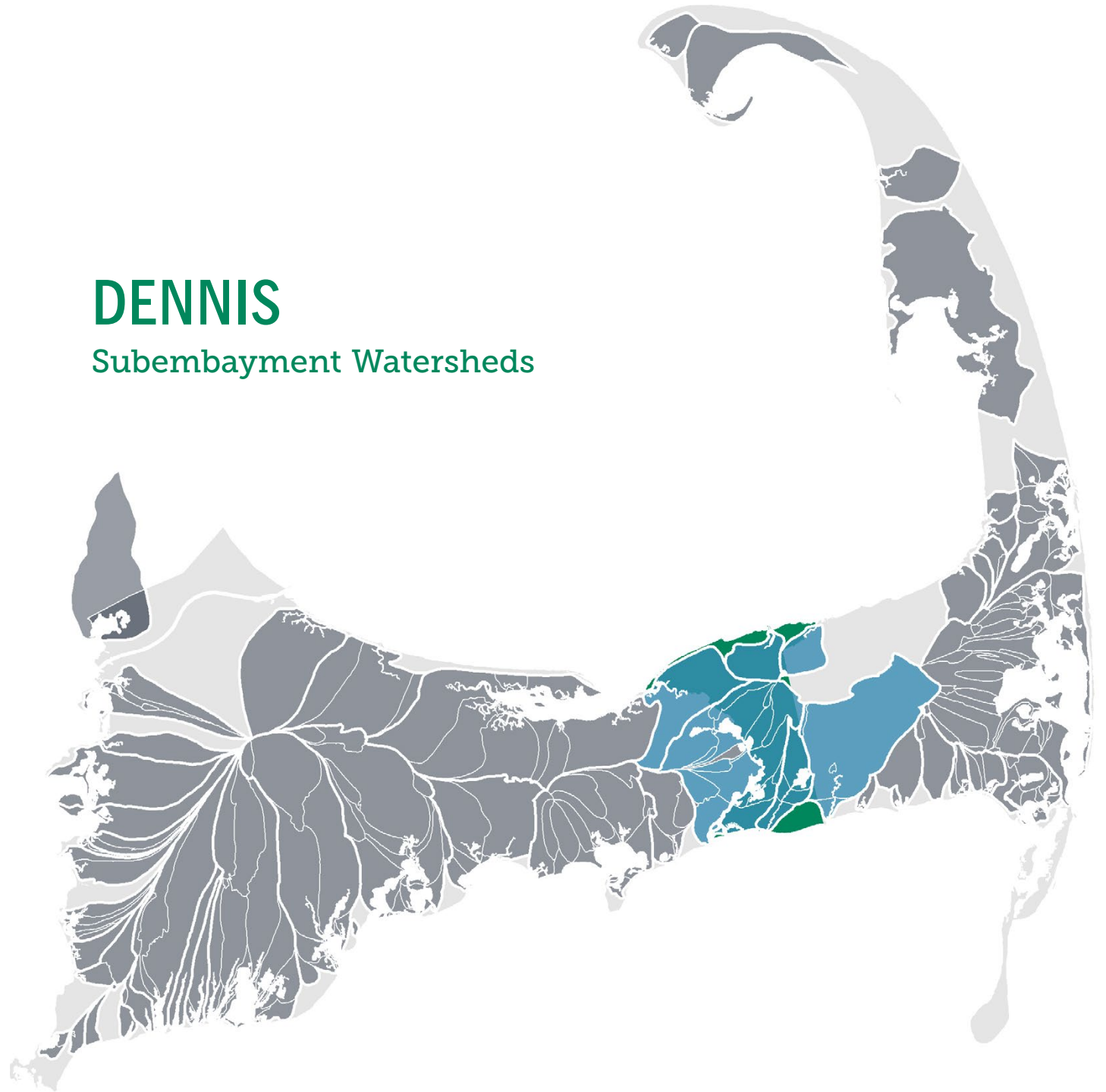


DENNIS

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

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	41%	7	Yarmouth (59%)

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	33%	3,565	Yarmouth (67%)

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	61%	5,361	Yarmouth (39%)

SUBEMBAYMENT: GRAND COVE

Unattenuated Load (kg.)	Attenuated Load (kg.)	Threshold (kg.)	Reduction Target (kg.)	Percent Contribution	Kilogram Responsibility	Additional Contributing Towns
2,499	2,328	2,662	N/A	100%	N/A	N/A

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	82%	4,324	Brewster (1%), Yarmouth (17%)

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	11%	641	Yarmouth (89%)

DENNIS: Subembayment Watersheds

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	52%	N/A	Yarmouth (48%)

HERRING RIVER (HARWICH)

SUBEMBAYMENT: LOWER HERRING RIVER

Unattenuated Load (kg.)	Attenuated Load (kg.)	Threshold (kg.)	Reduction Target (kg.)	Percent Contribution	Kilogram Responsibility	Additional Contributing Towns
3,267	3,267	3,298	N/A	1%	N/A	Harwich (99%)

SUBEMBAYMENT: UPPER HERRING RIVER

Unattenuated Load (kg.)	Attenuated Load (kg.)	Threshold (kg.)	Reduction Target (kg.)	Percent Contribution	Kilogram Responsibility	Additional Contributing Towns
29,784	16,862	14,106	2,756	7%	182	Brewster (5%), Harwich (88%)

QUIVETT CREEK

SUBEMBAYMENT: QUIVETT CREEK

Unattenuated Load (kg.)	Attenuated Load (kg.)	Threshold (kg.)	Reduction Target (kg.)	Percent Contribution	Kilogram Responsibility	Additional Contributing Towns
4,293	4,293	N/A	N/A	21%	N/A	Brewster (79%)

SESUIT HARBOR

SUBEMBAYMENT: SESUIT HARBOR

Unattenuated Load (kg.)	Attenuated Load (kg.)	Threshold (kg.)	Reduction Target (kg.)	Percent Contribution	Kilogram Responsibility	Additional Contributing Towns
10,511	10,511	N/A	N/A	100%	N/A	N/A

SWAN POND RIVER

SUBEMBAYMENT: SWAN POND RIVER

Unattenuated Load (kg.)	Attenuated Load (kg.)	Threshold (kg.)	Reduction Target (kg.)	Percent Contribution	Kilogram Responsibility	Additional Contributing Towns
6,348	6,280	1,848	4,432	96%	4,262	Brewster (3%), Harwich (1%)

SUBEMBAYMENT: SWAN POND RIVER NORTH

Unattenuated Load (kg.)	Attenuated Load (kg.)	Threshold (kg.)	Reduction Target (kg.)	Percent Contribution	Kilogram Responsibility	Additional Contributing Towns
3,447	3,401	593	2,808	100%	2,808	N/A

SUBEMBAYMENT: SWAN POND RIVER SOUTH

Unattenuated Load (kg.)	Attenuated Load (kg.)	Threshold (kg.)	Reduction Target (kg.)	Percent Contribution	Kilogram Responsibility	Additional Contributing Towns
5,204	5,204	1,474	3,730	100%	3,730	N/A

