Conditions of oysters

Diseases of oysters often affect their condition, which also varies seasonally. Sustained poor, watery oysters may indicate a disease is present and warrant professional testing.

Diseases of oysters

These images are for illustration only; diseases should be diagnosed by a certified professional.

Juvenile oyster disease
Current Range: Maine to New York
Appearance: Cupping of left valve with brownish deposits on the inner shell
Promoting Conditions: High salinities
Time of Year: Typically July to September
Notes: Typically affects smaller oysters (< 25 mm)

Dermo, Perkinus marinus
Current Range: North American east coast
Appearance: Poor, watery condition of adult oysters
Promoting Conditions: Warm temperatures and brackish to saltier waters
Time of Year: September or October
Notes: Typically affects second year oysters

MSX or Multinucleated Sphere Unknown, Haplosporidian nelsoni
Current Range: North American east coast
Appearance: Poor, watery condition of adult oysters
Promoting Conditions: Warm temperatures and brackish to saltier waters
Time of Year: July to September
Notes: Often affects first or second year oysters

SSO or Seaside Organism, Haplosporidian costale
Current Range: Southern New England to Virginia
Appearance: Poor, watery condition of adult oysters
Promoting Conditions: High salinity areas
Time of Year: Spring to early summer
Notes: Typically affects first or second year oysters

Like many other diseases, SSO is not typically detected by eye until a significant mortality event occurs. Even healthy appearing seed (shown above) should be tested if SSO is common in the growing area.

Cover photos: D. Murphy, CCCEC (top); C. Linder (bottom)
Illustrations: Alice Jane Lipson
Oyster photos: Howard et al., 2004. NOAA Tech. Memo NOS NCCOS 152
www.chbr.noaa.gov/CooperativeLaboratory.html

DISEASES of Concern to New England Shellfish Growers

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If you are a shellfish grower, harvester, or resource manager, you know that there are a number of diseases that may affect your shellfish. The Woods Hole Sea Grant Program and the Cape Cod Cooperative Extension Service have teamed up to provide you with information about common shellfish diseases. This illustrated guide provides a description of the diseases and identification tips—including times of year each is typically found to affect shellfish in New England waters.

With information about your shellfish disease(s), you can begin to find a solution, such as treatments, alternative growing techniques, siting and planting techniques, and control measures. If you have any questions about the information provided in Shellfish Diseases of Concern to New England Shellfish Growers, or if you would like more information about solutions, contact your local extension agent.

### Diseases of quahogs

**QPX or Quahog Parasite Unknown**
- **Current Range:** North American east coast
- **Appearance:** Slow growth, chipped shell margins occasionally, nodules in the mantle
- **Promoting Conditions:** High salinity areas
- **Time of Year:** Mortality often occurs in spring and late summer

Mortality from QPX can be extreme at times. In some sediments, dead and dying quahogs will come to the surface creating a carpet of shells.

### Diseases of soft shell clams

**Hemocytic neoplasia**
- **Current Range:** North American east coast
- **Appearance:** Watery tissues
- **Promoting Conditions:** May be associated with polluted areas

Clams affected by hemocytic neoplasia do not look outwardly different from healthy clams. This means that obtaining seed only from professionally certified, disease-free hatcheries is essential to disease management.