



## Oyster spat collection update Cocagne Bay

Last updated: August 16, 2023

**A few oyster larvae are still being observed in the water samples.**  
**This is an indication that oyster larvae continue to set.**

Oyster spawn was observed for the first time this season on June 29, 2023

Oyster sampling for gonad observation began on June 8, 2023.

The average gonadal development percentage is currently -%.

The average water temperature at the time samples were taken was **20.7°C**.

### Monitoring of oyster larvae in plankton

Sampling date	Size of the majority of the larvae observed (in microns)	Size range of larvae (in microns)	Presence of eyed larvae
<b>August 16, 2023</b>	<b>291.2</b>	<b>291.2</b>	<b>No</b>
August 03, 2023	176.2	104-312	Yes
July 26, 2023	166.4	104-312	Yes
July 21, 2023	166.4	104-312	Yes
July 14, 2023	104	72.8-312	Yes
July 10, 2023	72.8	72.8-312	Yes
July 6, 2023	83.2	72.8-135.2	No
July 4, 2023	72.8	72.8-135.2	No
June 29, 2023	72.8	72.8-208	No
June 26, 2023	-	-	-

**Notice:** When oyster larvae measure more than **300 microns** and have a distinctive black dot (“eyed” larvae), the collectors must be set in the water. Producers must therefore be prepared for this stage, which can occur two to three weeks after the oysters’ spawn.

### Gonad observation

Sampling date	Gonadal development percentage
<b>July 14, 2023</b>	-
July 10, 2023	29.0
July 6, 2023	43.0
July 4, 2023	49.0
June 29, 2023	45.0
June 26, 2023	59.0
June 22, 2023	48.5
June 08, 2023	28.5

### Monitoring of water temperature and salinity

Sampling date	Temperature (°C)	Salinity (ppt)
<b>August 16, 2023</b>	<b>20.7</b>	<b>27.4</b>
August 03, 2023	21.0	29.3
July 26, 2023	25.0	27.3
July 21, 2023	24.8	25.3
July 14, 2023	21.9	27.0
July 10, 2023	24.9	25.3
July 6, 2023	22.1	23.2
July 4, 2023	-	-
June 29, 2023	20.6	24.6
June 26, 2023	17.7	26.6
June 22, 2023	17.5	25.3
June 08, 2023	12.6	24.3

### Monitoring of other larvae in plankton (biofouling)

Sampling date	Presence of mussels		Presence of barnacles	
	Pre-setting stage	Setting stage	Pre-setting stage	Setting stage
<b>August 16, 2023</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>
August 03, 2023	No	No	No	No
July 26, 2023	No	No	No	No
July 21, 2023	No	No	No	No
July 14, 2023	Yes	No	No	No
July 10, 2023	Yes	Yes	No	No
July 6, 2023	Yes	Yes	Yes	Yes
July 4, 2023	Yes	Yes	Yes	Yes
June 29, 2023	Yes	No	Yes	No
June 26, 2023	No	No	No	No
June 22, 2023	No	No	No	No
June 08, 2023	No	No	Yes	Yes

**Pre-setting stage:** larvae are not ready to set yet.

**Setting stage:** larvae are ready to set.

### Information

For more information on oyster spat collection in Cocagne Bay, contact either of the following personnel of the Department's regional team:

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