FISH COMMISSION OF OREGON

HYDROGRAPHIC DATA FOR YAQUINA, COOS, AND TILLAMOOK BAYS

Project Title: Oyster Mortality Study

Prepared by: Gary Gibson
C. Dale Snow

U. S. Fish and Wildlife Service
Bureau of Commercial Fisheries
Contract: 14-17-0001-1739
Period Covered: June 1966-November 1967

December 1967
HYDROGRAPHIC DATA FOR YAQUINA, 
COOS, AND TILLAMOOK BAYS

INTRODUCTION

The following tables show all the hydrographic data that have been collected through November 1967 under the Bureau of Commercial Fisheries oyster mortality study contract. This information appears in the quarterly and annual reports as either mean values or ranges, but is presented in the following tables as collected. It is hoped that this information can be used for comparison in areas where high oyster mortalities occur.

The methods of obtaining these data and explanation of the seasonal hydrographic patterns found in Yaquina, Tillamook, and Coos bays can be found in the quarterly and annual oyster mortality reports.

Tables 1 through 5 give salinity, temperature, dissolved oxygen, turbidity, and pH data for Yaquina Bay while Table 6 gives temperature and salinity for Tillamook and Coos bays.
Figure 1. Yaquina Bay, Oregon, showing location of the oyster mortality stations.

A = Nonfloating station. 1/
B = Floating station, tray depth 3'.
C = Floating station, tray depth 3'.
D = Nonfloating station. 1/
E = Floating station, tray depth 5'.
F = Floating station, tray depth 15'.
G = Laboratory station.

1/ Tray at approximately -5' tidal level.
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1/ Readings at low tide.
Table 6. Surface salinities and temperatures for the Tillamook and Coos Bay stations, December 1966-November 1967 (values at low tide)

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<th>Coos Bay 2/</th>
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<tr>
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<td>Temperature F</td>
<td>Salinity o/oo</td>
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<td>Dec. 1966</td>
<td>46</td>
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<td>Jan. 1967</td>
<td>43</td>
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<td>March</td>
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<td>Sept.</td>
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1/ Station located on intertidal oyster bed in the southwest section of the bay.

2/ Station located on intertidal oyster bed in Joe Ney Slough.
## A Comparison of Miscellaneous Oyster Laws

### In Oregon, Washington, and California

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<th></th>
<th>License to Cultivate Oysters</th>
<th>License to Process Oysters</th>
<th>Poundage Tax on Oysters</th>
<th>Filing Fee for Leasing State Land</th>
<th>Rental Fee on Leased State Oyster Land</th>
<th>Lease Period on Oyster Land</th>
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<td>Present</td>
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<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Up to 10 years on natural beds. No period on Tiller-mock except to file report with County Clerk every 2 years.</td>
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<td><strong>California</strong></td>
<td>$15</td>
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<td>1¢/gal.</td>
<td>$50</td>
<td>$1/acre.</td>
<td>Up to 25 years.</td>
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FISH COMMISSION OF OREGON

MARCH 7, 1967