



Exhibit C



Annual Landing Limit for Commercial Harvest of Cockles from the Intertidal Zone of Tillamook Bay



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Exhibit C: Commercial Cockle Intertidal Landing Limit



Cockles are a popular target for recreational and commercial clam diggers in Tillamook Bay

Commercial Bay Clam Fisheries:

Intertidal Rake Fishery

Subtidal Dive Fishery









Exhibit C: Cockle Landing Limit





Commercial Intertidal (Rake) Cockle Fishery:

- open access permit
- about 20 - 30 active harvesters
- primary harvest from sandy shoals in northern region of Tillamook Bay



Tillamook Bay, OR

primary harvest area

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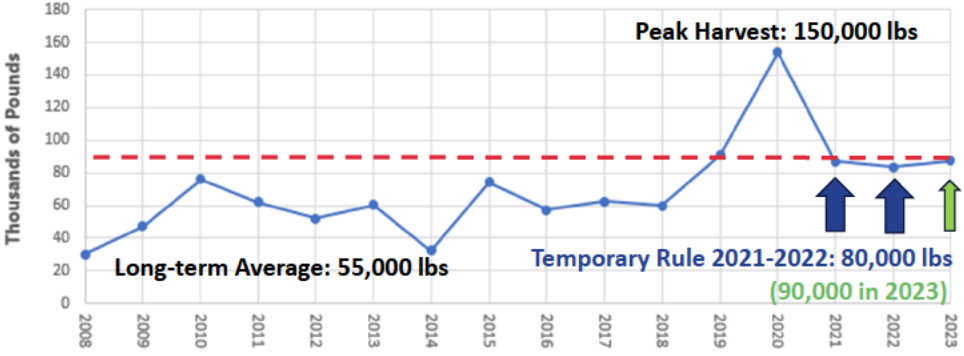
Exhibit C: Commercial Cockle Intertidal Landing Limit



Total annual harvest of cockles from the intertidal zone of Tillamook Bay by the commercial intertidal (rake) fishery (2008-2023).

Red Dash Line: - - - - - proposed annual commercial landing limit at 90,000 lbs

Annual Commercial Raked Cockles From Tillamook (2008 - 2023)



Year	Harvest (Thousands of Pounds)
2008	25
2009	45
2010	75
2011	60
2012	50
2013	60
2014	35
2015	70
2016	55
2017	60
2018	58
2019	85
2020	150
2021	80
2022	80
2023	90

Long-term Average: 55,000 lbs **Peak Harvest: 150,000 lbs**
Temporary Rule 2021-2022: 80,000 lbs **(90,000 in 2023)**

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Exhibit C: Cackle Landing Limit



SEACOR
(Shellfish and Estuarine Assessment of Coastal OR)
ODFW stock assessment of bay clam populations in
intertidal and subtidal areas of Tillamook Bay / 2022-23

Intertidal: quadrat survey





Intertidal: 'mega-core' survey



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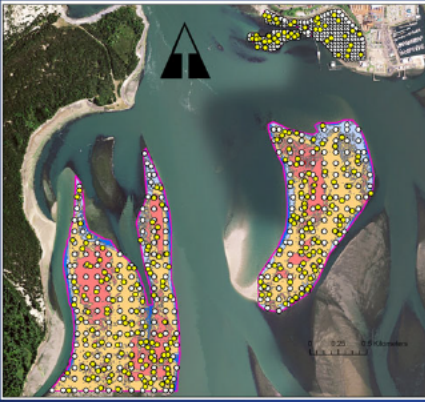


Exhibit C: Commercial Cackle Intertidal Landing Limit





○ habitat

● habitat & clams

ODFW/SEACOR Survey of Intertidal Biomass of Cockles in Tillamook Bay (2022-23)

Stock Estimate for Cockles	Biomass (lbs)
Tillamook Bay / total northern region	765,850
10% of biomass	76,580
12% of biomass	91,900
15% of biomass	114,880

Proposed Annual Landing Limit: 90,000 lbs
(Less than 15%)

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Public Input: Tillamook Bay Clam Advisory Committee (2021-2023)

ISSUE:

Annual harvest limits (commercial intertidal bay clam fishery)

RECOMMENDATIONS:

- Set annual landing limits for commercial harvest of bay clams from intertidal areas in Tillamook Bay
- Identify annual landing limits with ODFW SEACOR stock estimates (TBCAC 2023)



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Existing Temporary Rule (expires Sep 23, 2023):

- annual landing limit of 90,000 lbs for the commercial intertidal (“rake”) cockle fishery in Tillamook Bay





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Staff recommendation:

- establish an annual landing limit of 90,000 lbs for the commercial intertidal (“rake”) cockle fishery in Tillamook Bay



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Draft Motion:

Move to amend OAR Chapter 635-005-0387 as proposed by staff in Attachment 3.

Effective Date:

Upon filing