

Early Warning System and State of Classification Report

The attached report illustrates the status of the commercial shellfish growing areas in your county. It includes a breakdown of shellfish harvest acreage, impacts to marine water that result in Prohibited classifications, and details regarding how your county compares to the other 13 counties with shellfish growing areas. We are providing this information in hopes of continuing conversations about the current marine water quality in your county.

Our program collected and analyzed the data within this report following the stringent pollution source and marine water quality requirements set forth in the National Shellfish Sanitation Program Guide for the Control of Molluscan Shellfish (NSSP). Commercial shellfish growing areas must meet numeric criteria outlined in the NSSP of a geometric mean of no greater than 14 fecal coliform/100 ml and an estimated 90th percentile of no greater than 43 fecal coliform/100 ml. These numbers are based on ongoing, long-term sampling at permanent marine water stations. The classification statistics include the evaluation of a minimum of the last 30 marine water samples collected over a 2.5 to 5-year period. Commercial shellfish harvesting is not allowed if marine water stations fail to meet the marine water standards or if pollution sources are identified within the watershed that impact the area.

Common terms used in the report include:

Classification – A specific term that defines the conditions under which commercial shellfish harvesting can occur. It is determined by the evaluation of marine water quality, shoreline pollution sources, and meteorological/hydrographic factors.

Approved – This classification applies to areas that meet very stringent marine water quality standards and have no pollution impacts. Commercial shellfish companies can harvest directly from Approved areas and take the product directly to market.

Conditionally Approved – This classification applies to areas that meet very stringent marine water quality standards and have no pollution impacts most of the time. Periodic poor water quality, based on predictable conditions, results in the temporary closure of the harvest area.

Restricted – This classification applies to areas that show a limited degree of pollution or areas where active marine water quality evaluations are not available. Shellfish must be relayed to Approved or Conditionally Approved areas and allowed to purge before harvest.

Prohibited – This classification applies to areas that have known marine water quality impacts. Commercial shellfish harvesting is not allowed in Prohibited areas.

Upgrade – Reclassifying a growing area or portion of a growing area from a more restrictive classification to a less restrictive classification. *Example: Upgrade from Prohibited to Approved.*

Downgrade – Reclassifying a growing area or portion of a growing area from a less restrictive classification to a more restrictive classification. *Example: Downgrade from Approved to Conditionally Approved.*

Failing – Marine water sampling stations that do not meet the water quality standards. The classification of the shellfish harvesting area must be downgraded.

Threatened – Marine water stations currently meeting the standards but are near failing or existing shoreline pollution sources have been identified that may impact public health if not appropriately managed. Marine water sampling stations with estimated 90th percentiles between 30 and 43 fc/100 ml are considered Threatened.

Short descriptions of each section of the report follow:

CLASSIFICATION & RANK

Classified commercial shellfish growing areas vary in size from under 500 acres to over 46,000 acres. The rank is based on each category's relationship to the same category in the other counties with commercial shellfish growing areas. There are 14 counties with shellfish growing areas in Washington State. The total classified acres in a county accounts for all Approved, Conditionally Approved, Restricted, and Prohibited acres. The number of marine water stations in a county denotes how many permanent stations are routinely sampled each year.

CLASSIFICATION BREAKDOWN & REASONS FOR PROHIBITED CLASSIFICATIONS

This figure shows a breakdown of the classifications and reasons for the Prohibited classifications. While the Nonpoint denotation in the Prohibited classification chart is based on poor water quality; the Wastewater Treatment Plant (WWTP) and Marina portions are based on the potential to pollute. Potential upset conditions at a WWTP and discharges from boats in a marina are used to calculate these areas.

UPGRADES & DOWNGRADES

This table lists recent classification upgrades and downgrades.

FECAL COLIFORM ROLLING ESTIMATED 90th PERCENTILES

This figure shows the water quality trend over the last 8 years for all stations defined as threatened or failing and includes demarcations of the minimum Threatened threshold (30 FC/100mL) and minimum Failing threshold (43 FC/100mL). The trend lines illustrate the change in bacterial marine water quality at those stations over time. The fecal coliform level for each point is defined based on the estimated 90th percentile calculation of the previous 30 marine water samples.

COMMERCIAL SHELLFISH GROWING AREA MAPS

Page 2 includes maps of all shellfish growing areas in the county and insets of areas with Threatened or Failing stations. Stations circled in black are threatened and in danger of failing – these areas should be, or should continue to be, the focus of water quality restoration work to prevent future downgrades. Stations circled in red are failing and subject to be downgraded to a more restrictive classification. These stations will require improvements in marine water quality and work completed to remediate pollution sources in order to be upgraded again.

SHELLFISH PROGRAMS CONTACT

For the 2021 Growing Area Annual Reports, please visit <http://www.doh.wa.gov/CommunityandEnvironment/Shellfish/GrowingAreas/AnnualReports>

For current Growing Area classifications and water quality, please visit www.doh.wa.gov/commercialshellfishmap

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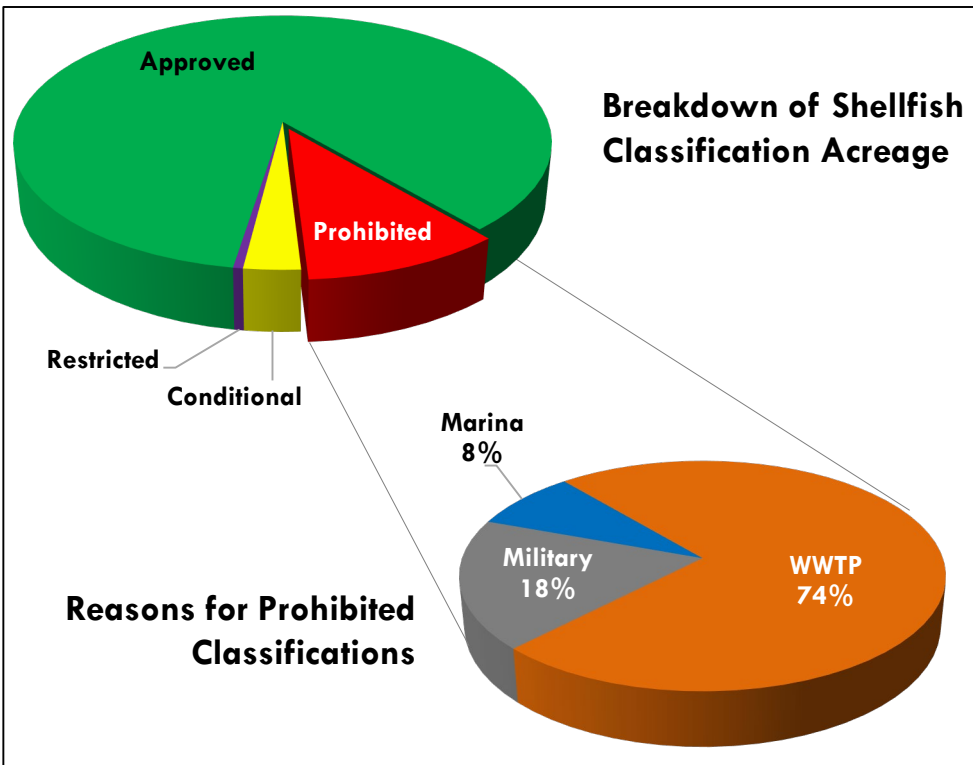
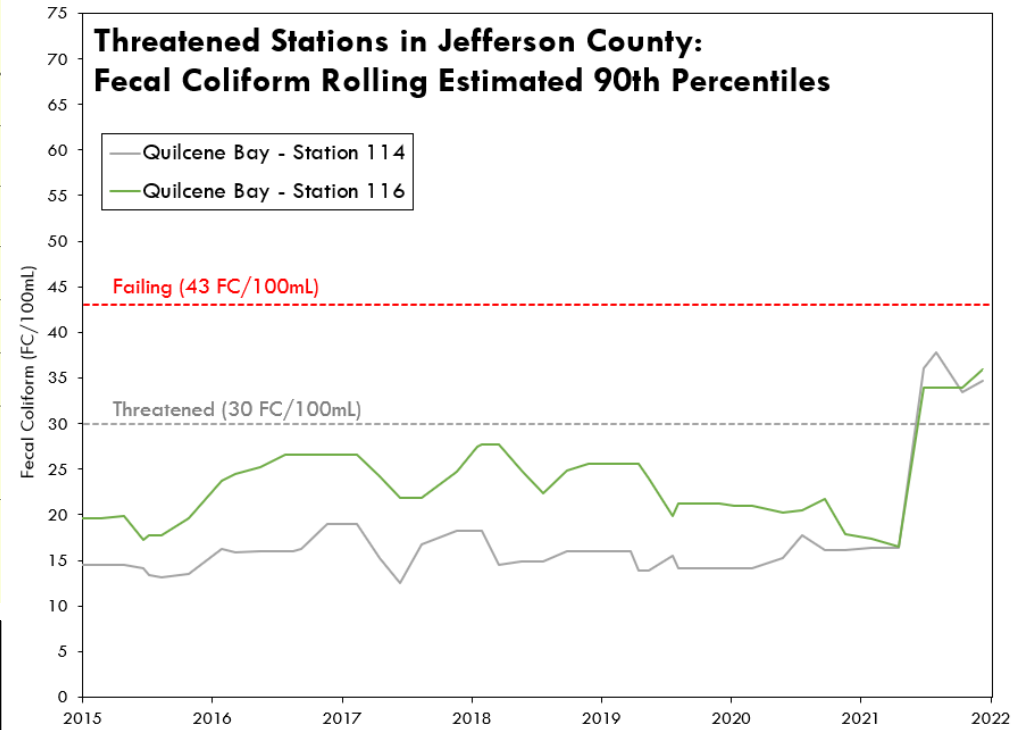
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King and San Juan counties

2022 Jefferson County: Water Quality Early Warning System Report (through end of 2021)

Shellfish Programs | Office of Environmental Health and Safety | Washington State Department of Health

Jefferson County Classifications & Rank

	Acres	Rank
Total Classified Acres	24,446	7
Approved	21,088	4
Conditionally Approved	716	6
Restricted	123	6
Prohibited	2,520	7
Marine Water Stations Monitored	178 Stations	4
Classified Commercial Shellfish Growing Areas	14 Areas	4



Recent Upgrades and Downgrades

Year	Growing Area	Acres	Description
2018	Quilcene Bay	+19	Conditional to Approved
	Discovery Bay	+3	Prohibited to Approved
	Hood Canal 3	+42	Conditional to Approved
2017	Hood Canal 3	-195	Approved to Conditional

Jefferson County Commercial Shellfish Growing Areas

