

INDICATOR

DISSOLVED OXYGEN IN MARINE WATER

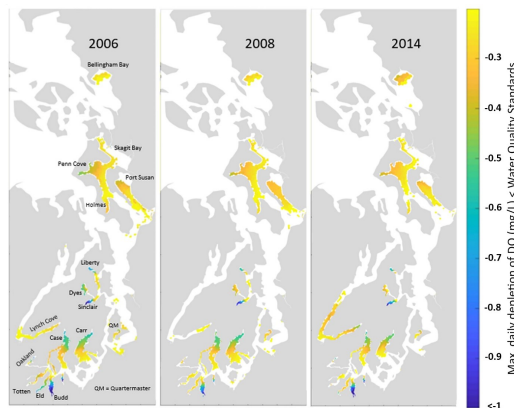
This indicator reports on the modeled reduction of dissolved oxygen in marine waters caused by human impacts. Low dissolved oxygen in marine waters can create significant problems, such as extensive fish kills in extreme conditions. Excessive nitrogen and carbon from human activities can create or exacerbate the conditions that lead to low oxygen in Puget Sound.

Indicator Progress

Target Status

INDICATOR
TO BE
DEVELOPED

NO
TARGET



Model results for the spatial distribution of the maximum daily dissolved oxygen (DO) depletion below the water quality standard in 2006, 2008, and 2014. Areas that are green to blue show the highest levels of predicted DO depletion resulting from human-related contributions of nitrogen.

Target

No targets are currently set for this indicator.

Data Source

Washington Department of
Ecology, Environmental
Assessment Program, Modeling and
TMDL Unit

Indicator Lead

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Last Updated

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Key Vital Sign Indicator Results

- Human sources of nutrients have a significant impact on dissolved oxygen in Puget Sound in multiple embayments.
- The cumulative impact of all human activities cause dissolved oxygen concentrations to decrease by more than 0.2 mg/L at multiple locations throughout Puget Sound.
- In several areas throughout Puget Sound, human-related oxygen depletion persists for three months or more.
- A combination of nutrient reductions from marine point sources and watershed sources will be needed to meet the indicator target.

CONTRIBUTING PARTNERS



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