
SUBSTITUTE HOUSE BILL 1661

State of Washington

67th Legislature

2022 Regular Session

By House Rural Development, Agriculture & Natural Resources (originally sponsored by Representatives Shewmake, Ryu, Berry, Fitzgibbon, Ramel, Springer, Duerr, Walen, Callan, Goodman, Paul, Peterson, Ramos, Rule, Simmons, Slatter, Tharinger, Kloba, Pollet, and Harris-Talley; by request of Department of Natural Resources)

READ FIRST TIME 01/27/22.

1 AN ACT Relating to conserving and restoring kelp forests and
2 eelgrass meadows in Washington state; adding a new section to chapter
3 79.135 RCW; and creating a new section.

4 BE IT ENACTED BY THE LEGISLATURE OF THE STATE OF WASHINGTON:

5 NEW SECTION. **Sec. 1.** (1) The legislature finds that coastal
6 ecosystems and marine vegetation provide an array of valuable
7 ecosystem goods and services to deep water and nearshore environments
8 in Puget Sound and along the coastline. In particular, kelp forests
9 and eelgrass meadows act as three dimensional foundations for diverse
10 and productive nearshore ecosystems, supporting food webs and
11 providing important habitat for a wide array of marine life,
12 including orcas and threatened and endangered salmon and salmonid
13 species. These marine forests and meadows play an important role in
14 climate mitigation and adaptation by sequestering carbon and
15 relieving impacts from ocean acidification. Marine vegetation can
16 sequester up to 20 times more carbon than terrestrial forests, and
17 therefore represent a critical tool in the fight against climate
18 change.

19 (2) Washington state is home to 22 species of kelp and is a
20 global hotspot for kelp diversity. However, these kelp forests are
21 under threat and have declined in recent decades. A 2018 study

1 conducted by the Samish Indian Nation on the bull kelp beds in the
2 San Juan Islands found a 305-acre loss of kelp beds from 2006 to
3 2016, a 36 percent decline in one decade. A statewide study published
4 in 2021 by the department of natural resources found that compared to
5 the earliest baseline in 1878, the amount of bull kelp in 2017 had
6 decreased by 63 percent in south Puget Sound, with individual areas
7 showing up to 96 percent loss.

8 (3) The legislature also finds that kelp and eelgrass have
9 important cultural value to northwest tribal nations and have
10 provided diverse marine resources that have sustained and inspired
11 indigenous traditions over generations. In particular, bull kelp has
12 played a prominent role in traditional knowledge and technology and
13 is used in fishing, hunting, and food preparation and storage.
14 Decline in kelp forests threatens these uses, and the cultural
15 livelihoods of Northwest tribal nations.

16 (4) Washington state's native eelgrass meadows (*Zostera marina*)
17 also provide vital habitat for many organisms, including nursery
18 habitat for juvenile salmon and feeder fish. Native eelgrass can
19 provide a refuge for shellfish from the effects of ocean
20 acidification. Native eelgrass also helps prevent erosion and
21 maintain shoreline stability by anchoring seafloor sediment with its
22 spreading roots and rhizomes. Native eelgrass is used as an indicator
23 of estuary health, because of its fast response to changes in water
24 quality. Examples of rapid native eelgrass loss include Westcott Bay
25 in San Juan county, where in 2000 there were 37 acres of eelgrass
26 meadows and 20 years later less than one acre remains. Changes in the
27 abundance or distribution of this resource are likely to reflect
28 changes in environmental conditions and therefore are key species to
29 monitor and protect to ensure marine ecosystem health.

30 (5) Kelp forests and eelgrass meadows also provide and enhance
31 diverse recreational opportunities, including productive fishing and
32 picturesque kayaking and diving. These activities are important for
33 local economies and for promoting strong senses of place and overall
34 human well-being in communities. There is a need for greater
35 education and outreach to communities to promote sustainable
36 recreational practices in and near kelp forests and eelgrass meadows.

37 (6) There is a need for greater education and outreach to
38 communities to promote sustainable recreation practices in and near
39 native kelp forests and eelgrass meadows, such as those called for in
40 the Puget Sound kelp conservation and recovery plan.

1 (7) Existing regional plans for conservation of kelp forests and
2 eelgrass meadows, including the Puget Sound kelp conservation and
3 recovery plan (2020) and the Puget Sound eelgrass recovery strategy
4 (2015), identify the need to prioritize areas for conservation and
5 restoration based on historical and current distributions.

6 (8) The legislature further finds that our terrestrial and marine
7 ecosystems are interlinked and the state must be proactive in
8 conserving our resources from trees to seas by protecting and
9 restoring our marine forests and meadows in concert with conservation
10 and reforestation of terrestrial forests. Therefore, it is the intent
11 of the legislature to conserve and restore 10,000 acres of kelp
12 forests and eelgrass meadows by 2040.

13 NEW SECTION. **Sec. 2.** A new section is added to chapter 79.135
14 RCW to read as follows:

15 (1) The department shall, consistent with this section, and
16 subject to available funding, work with partners to establish a
17 native kelp forest and eelgrass meadow health and conservation plan
18 that endeavors to, by the year 2040, conserve and restore at least
19 10,000 acres of kelp forests and eelgrass meadows. The plan should
20 proactively and systematically address:

21 (a) The potential loss of native kelp forest and eelgrass meadow
22 habitat throughout Puget Sound and along the Washington state
23 coastline;

24 (b) Potential current and future stressors related to the decline
25 of native kelp forests and eelgrass meadows; and

26 (c) Awareness, action, and engagement tools being used by public
27 and private entities in the Puget Sound region to raise awareness of
28 the importance of conserving and restoring native kelp forests and
29 eelgrass meadows and reducing stressors related to their decline.

30 (2) The department shall develop the plan to assess and
31 prioritize areas for coordinated conservation and restoration
32 actions. The plan must consist of the following elements: Assessment
33 and prioritization; identifying coordinated actions and success
34 measures; monitoring; and reporting.

35 (a) The department shall, together with partners, develop a
36 framework to identify and prioritize native kelp forest and eelgrass
37 meadow areas in greatest need of conservation or restoration. The
38 framework must:

1 (i) Incorporate conservation of native kelp forests and eelgrass
2 meadows. Utilize and build on existing research to map and prioritize
3 areas of native kelp forests and eelgrass meadows throughout Puget
4 Sound and along the coast that are at highest risk of permanent loss,
5 or contribute significant environmental, economic, and cultural
6 benefits to tribal nations and local communities, including salmon
7 recovery and water quality, and where opportunities for partnership
8 and collaboration can accelerate progress towards the goal, and
9 develop criteria by which an acre of kelp forests and eelgrass
10 meadows can be considered to be conserved or restored;

11 (ii) Identify research necessary to analyze and assess potential
12 ecological, environmental, and community benefits of aquaculture of
13 native seaweed species;

14 (iii) Map and prioritize native kelp forest and eelgrass meadow
15 areas throughout Puget Sound and along the coast where they were
16 historically present, identifying priority locations for restoration,
17 and where opportunities for partnership and collaboration exist that
18 will accelerate progress towards the goal. This should include
19 identification of sites where restoration may be possible and would
20 most benefit nearshore ecosystem function, including where
21 restoration could also support healthy kelp forests and eelgrass
22 meadows, salmon recovery, water quality, and other ecosystem
23 benefits, such as mitigating the negative effects of ocean
24 acidification;

25 (iv) Identify potential stressors impacting the health and
26 vitality of native kelp forests and eelgrass meadows in prioritized
27 areas in order to specifically address them in conservation and
28 restoration efforts.

29 (b) In developing coordinated actions and success measures, the
30 department shall:

31 (i) Conduct an assessment and inventory of existing tools
32 relevant to conserving and restoring native kelp forests and eelgrass
33 meadows and reducing stressors related to their decline;

34 (ii) Identify new or amended tools that would support the goals
35 of the plan created under this section; and

36 (iii) Identify success measures to track progress toward the
37 conservation and restoration goal.

38 (3) In developing the plan, the department shall:

39 (a) Involve impacted communities using the community engagement
40 plan developed under RCW 70A.02.050;

1 (b) Consult with federally recognized tribal nations, including
2 consultation on the cultural and ecological importance of native kelp
3 forests and eelgrass meadows now threatened by urbanization or other
4 disturbances;

5 (c) Engage state and federal agencies, such as the national
6 oceanic and atmospheric administration, the Northwest straits
7 commission, the department of ecology, the department of fish and
8 wildlife, the Puget Sound partnership, and the recreation and
9 conservation office;

10 (d) Engage with representatives from other stakeholder groups
11 that may have vested and direct interest in the outcomes of the plan
12 including, but not limited to, the shellfish, boating industries, and
13 recreational user communities.

14 (4)(a) By December 1, 2022, the department must submit a report
15 in compliance with RCW 43.01.036 to the office of financial
16 management and the appropriate committees of the legislature, to
17 include community engagement plans and schedule for plan development.
18 The native kelp forest and eelgrass meadow health and conservation
19 plan must be finalized and submitted to the office of financial
20 management and the appropriate committees of the legislature by
21 December 1, 2023, including a map and justification of identified
22 priority areas based on collaboratively developed criteria, and a
23 list of potential tools and actions for conservation or restoration
24 of these priority areas. A monitoring plan based on the identified
25 success measures will also be submitted.

26 (b) Subsequently, each biennium, the department shall continue to
27 monitor the distributions and trends of native kelp forests and
28 eelgrass meadows to inform adaptive management of the plan and
29 coordinated partner actions. The department shall submit a report to
30 the legislature that describes the native kelp forest and eelgrass
31 meadow conservation priority areas, and monitoring approaches and
32 findings, including success measures established in the plan.
33 Beginning December 1, 2024, and by December 1st of each even-numbered
34 year thereafter, the department shall provide the appropriate
35 committees of the legislature and the office of financial management
36 with:

37 (i) An updated map of distributions and trends, and summary of
38 success measures and findings, including relevant information from
39 the prioritization process;

1 (ii) An updated list summarizing potential stressors, prioritized
2 areas, and corresponding coordinated actions and success measures.
3 The summary must include any barriers to plan implementation and
4 legislative or administrative recommendations to address those
5 barriers;

6 (iii) An update on the number of acres of native kelp forests and
7 eelgrass meadows conserved by region, including restoration or loss
8 in priority areas;

9 (iv) An update on consultation with federally recognized tribal
10 nations; and

11 (v) An update on the department's community engagement plan or
12 plans developed under RCW 70A.02.050.

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