

CERTIFICATION OF ENROLLMENT

SUBSTITUTE SENATE BILL 6306

Chapter 314, Laws of 2020

66th Legislature
2020 Regular Session

SOIL HEALTH INITIATIVE

EFFECTIVE DATE: June 11, 2020

Passed by the Senate February 17,
2020

Yeas 47 Nays 0

CYRUS HABIB

President of the Senate

Passed by the House March 5, 2020

Yeas 94 Nays 3

LURIE JINKINS

**Speaker of the House of
Representatives**

Approved April 2, 2020 3:01 PM

JAY INSLEE

Governor of the State of Washington

CERTIFICATE

I, Brad Hendrickson, Secretary of the Senate of the State of Washington, do hereby certify that the attached is **SUBSTITUTE SENATE BILL 6306** as passed by the Senate and the House of Representatives on the dates hereon set forth.

BRAD HENDRICKSON

Secretary

FILED

April 3, 2020

**Secretary of State
State of Washington**

SUBSTITUTE SENATE BILL 6306

Passed Legislature - 2020 Regular Session

State of Washington

66th Legislature

2020 Regular Session

By Senate Ways & Means (originally sponsored by Senators Liias, Van De Wege, Warnick, Rolfes, Short, Nguyen, Das, Lovelett, Randall, Saldaña, and Wilson, C.)

READ FIRST TIME 02/06/20.

1 AN ACT Relating to creating the Washington soil health
2 initiative; and adding a new chapter to Title 15 RCW.

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

4 NEW SECTION. **Sec. 1.** The legislature finds that healthy soil is
5 a cornerstone of a high quality of life on earth and that soil health
6 is integral to supporting agricultural viability, promoting positive
7 environmental outcomes, and ensuring the long-term availability of
8 nutritious food.

9 It is the intent of the legislature that the mission of the
10 Washington soil health initiative be the promotion of collaborative
11 soil health research, education, demonstration projects, and
12 technical assistance activities designed to identify, promote, and
13 implement soil health stewardship practices that are grounded in
14 sound science and that can be voluntarily and economically
15 implemented by farmers and ranchers across Washington's diverse
16 agricultural communities, climates, and geographies.

17 NEW SECTION. **Sec. 2.** The definitions in this section apply
18 throughout this chapter unless the context clearly requires
19 otherwise.

1 (1) "Collaborating agencies" means the university, the
2 department, and the commission.

3 (2) "Commission" means the Washington state conservation
4 commission.

5 (3) "Department" means the Washington department of agriculture.

6 (4) "Soil health" means the continued capacity of the soil to
7 function as a vital living ecosystem that sustains plants, animals,
8 and humans.

9 (5) "Soil health initiative" means the Washington soil health
10 initiative created by this chapter as a collaborative partnership to
11 promote and implement voluntary soil management actions and systems
12 to improve soil health, environmental function, nutrition, and the
13 productivity of working farm and ranch lands.

14 (6) "University" means Washington State University.

15 NEW SECTION. **Sec. 3.** (1) The Washington soil health initiative
16 is created as a partnership jointly administered by the collaborating
17 agencies.

18 (2) The goals and objectives of the soil health initiative are to
19 improve:

20 (a) Agricultural viability, by improving farm profitability; and
21 by helping agricultural producers implement good soil health
22 practices that build soil organic matter, reduce soil erosion, soil
23 compaction and production costs, and improve nutrient management,
24 soil tilth, moisture infiltration, moisture retention, drought
25 resilience, disease suppression, and the beneficial activity of
26 microbes, fungi, earthworms, and other organisms;

27 (b) Nutrition, by increasing health-promoting nutrients,
28 micronutrients, and microbial processes of agricultural soils; and by
29 improving nutrient uptake, thereby expanding access to nutritious
30 food and improving human health; and

31 (c) Environmental function, by reducing soil erosion, runoff, and
32 leaching of nutrients and pollutants, thereby improving water
33 quality; and by promoting strategies to store carbon and build soil
34 organic matter and other beneficial properties, thereby enhancing the
35 environmental functions of agricultural soils.

36 (3) In addition to the joint responsibilities established for the
37 collaborative agencies in this section and the primary
38 responsibilities established for each collaborating agency in
39 sections 4 through 6 of this act, the collaborating agencies may

1 pursue any action designed to improve soil health and promote
2 complementary improvements to agricultural viability, nutrition, and
3 environmental function. The collaborating agencies must jointly:

4 (a) Support and supplement current Washington soil health
5 advisory committee membership to promote effective implementation of
6 the soil health initiative. Committee members must be qualified and
7 knowledgeable regarding soil health stewardship. Membership may
8 include agricultural producers, soil scientists or specialists, and
9 representatives of governmental, nongovernmental, and tribal
10 organizations interested in soil health as it pertains to
11 agricultural viability, nutrition, or environmental function. The
12 collaborating agencies must convene, staff, and develop agendas for
13 each Washington soil health advisory committee meeting and appoint
14 committee members and subcommittee members as appropriate. No
15 appointment is effective unless all collaborating agencies concur in
16 the appointment.

17 (b) Assess programmatic needs and build the capacities of the
18 collaborating agencies to fill gaps in scientific research, economic
19 assessment, staffing, technical assistance, grants administration,
20 project implementation, data management, and monitoring tools to
21 improve the reach and effectiveness of the soil health initiative.

22 (c) Prioritize in-state sourcing of needed soil health initiative
23 resources including, but not limited to, testing resources, seeds,
24 compost materials, supplies, and equipment.

25 (d) Employ adaptive management to support the improvement and
26 long-term viability of the soil health initiative, including
27 modification of soil health metrics, priorities, and activities to
28 maximize complementary net benefits for agricultural viability,
29 nutrition, and environmental function. To the extent practicable,
30 metrics chosen to assess changes from baseline environmental function
31 must be measured per unit of production.

32 (e) Submit a biennial Washington soil health initiative progress
33 report to the governor and appropriate committees of the legislature
34 by October 1, 2020, and every even-numbered year thereafter. The
35 report's recommendations must include an assessment of success in
36 meeting the soil health initiative's goals and objectives, a biennial
37 work plan detailing any proposed legislation, budget requests or
38 administrative rules, and a prioritized list of proposed actions
39 needed to fulfill each collaborating agency's responsibilities for

1 programmatic components and advance soil health initiative goals and
2 objectives in the upcoming biennium.

3 (4) The soil health initiative shall operate within the
4 appropriations provided for the program.

5 NEW SECTION. **Sec. 4.** The university has primary responsibility
6 for the following components of the soil health initiative:

7 (1) Establishing a regionally dispersed network of long-term
8 agro-ecological research and extension demonstration sites to
9 showcase and refine soil health research and practices, build
10 statewide awareness and understanding, and support technical
11 assistance capacity through trainings and on-farm demonstration
12 projects that promote positive soil health outcomes across the
13 state's diverse food production zones;

14 (2) Compiling existing information and developing new information
15 on nutrition effects related to agricultural soil management
16 practices and regimes, and identifying data gaps associated with
17 understanding and quantifying such effects across the state's diverse
18 food production zones, soil types, tillage systems, and cropping
19 methods. Nutrition effects information compiled, developed, and
20 assessed must include, but not be limited to, soil, plant, and food
21 nutrient and micronutrient levels and community access to nutritious
22 food;

23 (3) Developing a statewide soil health roadmap, based on a
24 compilation of existing soil health information and ancillary
25 agronomic, economic, environmental, and nutritional benefits and
26 identified data gaps, to refine metrics and objectives to guide
27 future public and private investment in the soil health initiative;

28 (4) Developing a statewide agricultural soil health monitoring
29 system and database to receive data, test modeling estimations, and
30 measure, analyze, and track trends over time in the productive use,
31 management, and health of Washington's agricultural soils; and

32 (5) Consulting and collaborating with the department and the
33 commission to support all soil health initiative goals, objectives,
34 and components established in this chapter.

35 (6) The university shall perform its responsibilities within the
36 appropriations provided for the soil health initiative.

1 NEW SECTION. **Sec. 5.** (1) The department has primary
2 responsibility for the following components of the soil health
3 initiative:

4 (a) Compiling existing information on agricultural viability and
5 environmental function effects related to agricultural soil
6 management practices and regimes across the state's diverse food
7 production zones, soil types, tillage systems, and cropping methods,
8 and identifying data gaps associated with understanding and
9 quantifying such effects. Agricultural viability effects compiled and
10 assessed must include, but not be limited to, assessments of yields,
11 profitability, costs, and benefits. Environmental function effects
12 compiled and assessed must include, but not be limited to,
13 assessments of water quality and water availability;

14 (b) Establishing a "state of the soils" baseline assessment of
15 statewide agricultural soil health practices and characteristic soil
16 health indicators, which may include, but is not limited to: Soil
17 type, organic matter, aggregate stability, porosity, temperature,
18 microbiology, and pathogens; carbon storage; nutrient management;
19 crop rotations; cropping techniques; tillage systems; plant biomass
20 input, residue, and cover levels; water infiltration rate; water
21 retention; root exudates; electrical conductivity; soil nutrient,
22 vitamin, and mineral levels including, but not limited to, levels of
23 nitrogen, phosphorous, potassium, magnesium, sulfur, calcium, and
24 micronutrients; and any other indicator of a soil's health, yield,
25 profitability, or ecological function. Baseline assessments must be
26 developed in a stepwise process to incrementally assess the baseline
27 for each of Washington's major food production zones, soil types,
28 tillage systems, and cropping methods, including both conventional
29 and organic food production systems;

30 (c) Developing standardized methods and diagnostic tools to
31 support accurate and cost-effective measurement of key soil health
32 indicators at a scale and speed that supports broad implementation
33 and verification of improved soil health stewardship across
34 Washington's diverse agricultural landscapes;

35 (d) Developing and supporting an agricultural product marketing
36 and promotion program that creates opportunities for participating
37 producers to benefit from the emerging market for Washington food
38 products grown under good soil health stewardship; and

1 (e) Consulting and collaborating with the commission and the
2 university to support all soil health initiative goals, objectives,
3 and components established in this chapter.

4 (2) In consultation with the commission and the university, the
5 department may adopt rules as needed to carry out the purposes of
6 this chapter.

7 NEW SECTION. **Sec. 6.** (1) The commission has primary
8 responsibility for the following components of the soil health
9 initiative:

10 (a) Developing, publishing, and distributing outreach and
11 education materials to help conservation districts, cooperative
12 extension, and local governments raise awareness of the importance of
13 soil health to society and agriculture, including farmer case studies
14 on soil health practices, experiences, and outcomes;

15 (b) Training and mobilizing technical service providers to
16 encourage farmers, ranchers, and land managers to voluntarily
17 implement desired soil health stewardship and enter into any
18 maintenance or easement agreements needed to maintain soil health
19 benefits obtained. The commission and the university must coordinate
20 technical assistance, working with and through conservation districts
21 and university extension, to avoid duplication of effort in carrying
22 out soil health initiative technical assistance responsibilities;

23 (c) Training technical assistance providers, property owners,
24 land managers, and others to voluntarily take ongoing soil health
25 samples and measurements and submit results to the soil health
26 monitoring database;

27 (d) In collaboration with the department and the university,
28 developing equitable criteria for the awarding of grants to help
29 producers improve soil health across the state's diverse agricultural
30 systems; and

31 (e) Consulting and collaborating with the department and the
32 university to support all soil health initiative goals, objectives,
33 and components established in this chapter.

34 (2) In consultation with the department and the university, the
35 commission may adopt rules as needed to carry out the purposes of
36 this chapter.

37 (3) The commission shall perform its responsibilities within the
38 appropriations provided for the soil health initiative.

1 NEW SECTION. **Sec. 7.** This chapter may be known and cited as the
2 Washington soil health initiative act.

3 NEW SECTION. **Sec. 8.** Sections 1 through 7 of this act
4 constitute a new chapter in Title 15 RCW.

Passed by the Senate February 17, 2020.

Passed by the House March 5, 2020.

Approved by the Governor April 2, 2020.

Filed in Office of Secretary of State April 3, 2020.

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