

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28

SENATE JOINT RESOLUTION NO. 9
INTRODUCED BY B. GILLESPIE, J. ELLIS

A JOINT RESOLUTION OF THE SENATE AND THE HOUSE OF REPRESENTATIVES OF THE STATE OF MONTANA ESTABLISHING THE FIRST WEEK IN APRIL AS MONTANA SOIL HEALTH WEEK AND THE FIRST WEDNESDAY IN APRIL AS SOIL HEALTH DAY.

WHEREAS, recognizing soil as an essential natural resource, and Montana's agricultural producers and professionals as playing a critical role in managing Montana's soil and water resources; and

WHEREAS, Montana is home to more than 27,000 agricultural producers who are reporting less farm-related income; and

WHEREAS, the Natural Resources Conservation Service of the United States Department of Agriculture defines soil health as the continued capacity of soil to function as a vital living ecosystem that sustains plants, animals, and humans; and

~~WHEREAS, the concept of soil health across the Montana landscape is not new, but is only recently recognized as needed to prevent soil degradation and the degradation of soil can be rapid, while the formation and regeneration processes can be very slow; and~~

~~WHEREAS, as of 2007, an average of 6.4 tons of topsoil per acre were lost every year due to erosion in Montana, compromising the productivity of agriculture in the state; and~~

WHEREAS, agriculture is Montana's top industry, generating more than \$3.7 billion in services and products to the state's economy; and

~~WHEREAS, Montana's fish, wildlife, and diverse ecosystem generate almost \$4 billion a year to Montana's economy and provide one-ninth of the total jobs that are dependent on soil health ; and~~

WHEREAS, healthy soil increases nutrient availability and helps capture, retain, and store more water, increasing the economic viability of farms and ranches, the availability of water for municipalities and recreational uses, and in-stream flows for power generation; and

~~WHEREAS, as soil organic carbon increases, so does its water holding capacity, increasing agriculture's resilience to drought and water shortages; and~~

1 WHEREAS, farming and ranching are vital to economic development for Montana's tribes and rural
2 communities; and

3 WHEREAS, healthy soils provide productive grazing; bountiful crops; clean air; water free from
4 sediment, nutrients, and other pollutants; and diverse wildlife and landscapes through five basic functions:

- 5 (1) help to control where rainfall, snowmelt, and irrigation water goes as water and dissolved
- 6 solutions flow over or into and through soil;
- 7 (2) sustain a diverse, productive plant and animal life;
- 8 (3) filter and buffer potential pollutants; AND
- 9 (4) cycle and recycle nutrients of carbon, nitrogen, phosphorus, and other nutrients that are stored
- 10 and transformed in the soil; and

11 ~~(5) provide physical stability by supporting soil structure, human structures, and archeological~~
12 ~~artifacts; and~~

13 ~~WHEREAS, there are six basic principles of soil health that contribute to the long-term prosperity and~~
14 ~~resilience of our state's, counties' and cities' soil and water resources:~~

- 15 ~~(1) minimize soil disturbance and external inputs, including reduced tillage;~~
- 16 ~~(2) maximize plant and microbial diversity;~~
- 17 ~~(3) maintain the presence of living roots;~~
- 18 ~~(4) keep the soil covered, including with cover crops and crop residue, to armor the soil;~~
- 19 ~~(5) integrate animals into land management, including grazing animals, birds, beneficial insects, or~~
20 ~~keystone species, such as earthworms; and~~
- 21 ~~(6) incorporate the context of local conditions in decisionmaking, including, for example, soil type,~~
22 ~~topography, and time of year; and~~

23 WHEREAS, Montana has designated the Scobey as its official state soil; and

24 ~~WHEREAS, the State of Montana should be actively raising awareness of the importance of soil health~~
25 ~~and promoting its stewardship to safeguard this resource for future generations; and~~

26 ~~WHEREAS, awareness facilitates the necessary changes in agricultural practices to sustain our~~
27 ~~Montana soils for the centuries to come and celebratory activities will bring greater awareness and appreciation~~
28 ~~of the merits of healthy soils and the producers that cultivate them in Montana.~~

