

Score Card: Oregon State Soil Judging

Supplement to Extension Manual 6

Contestant _____

Site _____

School _____

<p>First Horizon (to inches)</p> <p>_____ Color</p> <p>_____ Mottles</p> <p>_____ Texture</p> <p>_____ Coarse Fragments</p> <p>_____ Structure Type</p> <p>_____ Structure Grade</p> <p>_____ Special Features</p> <p>_____ Horizon Name</p>	<table border="0" style="width: 100%;"> <tr> <td style="width: 50%; vertical-align: top;"> <p>Color</p> <p>1 = Dark brown, Very dark brown, Black</p> <p>2 = Light brown, Brown, Yellowish brown</p> <p>3 = Red, Reddish brown</p> <p>4 = Dark gray, Light gray, White</p> </td> <td style="width: 50%; vertical-align: top;"> <p>Mottles</p> <p>1 = None</p> <p>2 = Few to common</p> <p>3 = Many</p> </td> </tr> <tr> <td style="width: 50%; vertical-align: top;"> <p>Texture</p> <p>1 = Sand, Loamy sand</p> <p>2 = Sandy loam</p> <p>3 = Loam, Silt loam</p> <p>4 = Sandy clay loam, Clay loam, Silty clay loam</p> <p>5 = Clay, Silty clay, Sandy clay</p> <p>6 = NA—Duripan, Cr, R, O</p> </td> <td style="width: 50%; vertical-align: top;"> <p>Coarse Fragments</p> <p>1 = < 15%</p> <p>2 = 15 to 35%</p> <p>3 = 35 to 60%</p> <p>4 = > 60%</p> </td> </tr> <tr> <td style="width: 50%; vertical-align: top;"> <p>Structure type</p> <p>1 = Granular</p> <p>2 = Platy</p> <p>3 = Blocky</p> <p>4 = Prismatic</p> <p>5 = Massive, Single grain</p> </td> <td style="width: 50%; vertical-align: top;"> <p>Structure grade</p> <p>1 = Structureless</p> <p>2 = Weak</p> <p>3 = Moderate</p> <p>4 = Strong</p> </td> </tr> <tr> <td style="width: 50%; vertical-align: top;"> <p>Special features</p> <p>1 = None</p> <p>2 = Tillage pan</p> <p>3 = Fragipan</p> <p>4 = Duripan</p> <p>5 = Cr</p> <p>6 = Slickensides</p> </td> <td style="width: 50%; vertical-align: top;"> <p>Horizon name</p> <p>1 = O 5 = C</p> <p>2 = A 6 = R</p> <p>3 = E 7 = AB, BA, BC</p> <p>4 = B</p> </td> </tr> </table>	<p>Color</p> <p>1 = Dark brown, Very dark brown, Black</p> <p>2 = Light brown, Brown, Yellowish brown</p> <p>3 = Red, Reddish brown</p> <p>4 = Dark gray, Light gray, White</p>	<p>Mottles</p> <p>1 = None</p> <p>2 = Few to common</p> <p>3 = Many</p>	<p>Texture</p> <p>1 = Sand, Loamy sand</p> <p>2 = Sandy loam</p> <p>3 = Loam, Silt loam</p> <p>4 = Sandy clay loam, Clay loam, Silty clay loam</p> <p>5 = Clay, Silty clay, Sandy clay</p> <p>6 = NA—Duripan, Cr, R, O</p>	<p>Coarse Fragments</p> <p>1 = < 15%</p> <p>2 = 15 to 35%</p> <p>3 = 35 to 60%</p> <p>4 = > 60%</p>	<p>Structure type</p> <p>1 = Granular</p> <p>2 = Platy</p> <p>3 = Blocky</p> <p>4 = Prismatic</p> <p>5 = Massive, Single grain</p>	<p>Structure grade</p> <p>1 = Structureless</p> <p>2 = Weak</p> <p>3 = Moderate</p> <p>4 = Strong</p>	<p>Special features</p> <p>1 = None</p> <p>2 = Tillage pan</p> <p>3 = Fragipan</p> <p>4 = Duripan</p> <p>5 = Cr</p> <p>6 = Slickensides</p>	<p>Horizon name</p> <p>1 = O 5 = C</p> <p>2 = A 6 = R</p> <p>3 = E 7 = AB, BA, BC</p> <p>4 = B</p>	<p>Third Horizon (to inches)</p> <p>_____ Color</p> <p>_____ Mottles</p> <p>_____ Texture</p> <p>_____ Coarse Fragments</p> <p>_____ Structure Type</p> <p>_____ Structure Grade</p> <p>_____ Special Features</p> <p>_____ Horizon Name</p>
<p>Color</p> <p>1 = Dark brown, Very dark brown, Black</p> <p>2 = Light brown, Brown, Yellowish brown</p> <p>3 = Red, Reddish brown</p> <p>4 = Dark gray, Light gray, White</p>	<p>Mottles</p> <p>1 = None</p> <p>2 = Few to common</p> <p>3 = Many</p>									
<p>Texture</p> <p>1 = Sand, Loamy sand</p> <p>2 = Sandy loam</p> <p>3 = Loam, Silt loam</p> <p>4 = Sandy clay loam, Clay loam, Silty clay loam</p> <p>5 = Clay, Silty clay, Sandy clay</p> <p>6 = NA—Duripan, Cr, R, O</p>	<p>Coarse Fragments</p> <p>1 = < 15%</p> <p>2 = 15 to 35%</p> <p>3 = 35 to 60%</p> <p>4 = > 60%</p>									
<p>Structure type</p> <p>1 = Granular</p> <p>2 = Platy</p> <p>3 = Blocky</p> <p>4 = Prismatic</p> <p>5 = Massive, Single grain</p>	<p>Structure grade</p> <p>1 = Structureless</p> <p>2 = Weak</p> <p>3 = Moderate</p> <p>4 = Strong</p>									
<p>Special features</p> <p>1 = None</p> <p>2 = Tillage pan</p> <p>3 = Fragipan</p> <p>4 = Duripan</p> <p>5 = Cr</p> <p>6 = Slickensides</p>	<p>Horizon name</p> <p>1 = O 5 = C</p> <p>2 = A 6 = R</p> <p>3 = E 7 = AB, BA, BC</p> <p>4 = B</p>									
<p>Second Horizon (to inches)</p> <p>_____ Color</p> <p>_____ Mottles</p> <p>_____ Texture</p> <p>_____ Coarse Fragments</p> <p>_____ Structure Type</p> <p>_____ Structure Grade</p> <p>_____ Special Features</p> <p>_____ Horizon Name</p>	<p>Fourth Horizon (to inches)</p> <p>_____ Color</p> <p>_____ Mottles</p> <p>_____ Texture</p> <p>_____ Coarse Fragments</p> <p>_____ Structure Type</p> <p>_____ Structure Grade</p> <p>_____ Special Features</p> <p>_____ Horizon Name</p>									
<table border="0" style="width: 100%;"> <tr> <td style="width: 33%; text-align: center;"> <p>Total Front</p> <div style="border: 1px solid black; width: 100px; height: 30px; margin: 0 auto;"></div> </td> <td style="width: 33%; text-align: center;"> <p>Total Back</p> <div style="border: 1px solid black; width: 100px; height: 30px; margin: 0 auto;"></div> </td> <td style="width: 33%; text-align: center;"> <p>Grand Total</p> <div style="border: 1px solid black; width: 100px; height: 30px; margin: 0 auto;"></div> </td> </tr> </table>			<p>Total Front</p> <div style="border: 1px solid black; width: 100px; height: 30px; margin: 0 auto;"></div>	<p>Total Back</p> <div style="border: 1px solid black; width: 100px; height: 30px; margin: 0 auto;"></div>	<p>Grand Total</p> <div style="border: 1px solid black; width: 100px; height: 30px; margin: 0 auto;"></div>					
<p>Total Front</p> <div style="border: 1px solid black; width: 100px; height: 30px; margin: 0 auto;"></div>	<p>Total Back</p> <div style="border: 1px solid black; width: 100px; height: 30px; margin: 0 auto;"></div>	<p>Grand Total</p> <div style="border: 1px solid black; width: 100px; height: 30px; margin: 0 auto;"></div>								



OREGON STATE UNIVERSITY EXTENSION SERVICE

Properties of the Whole Soil

Effective Depth

- 1 = Deep (> 40 inches)
- 2 = Moderately deep (20-40 inches)
- 3 = Shallow (10-20 inches)
- 4 = Very shallow (< 10 inches)

Available Water-Holding Capacity

- 1 = High
- 2 = Medium
- 3 = Low
- 4 = Very low

Surface Soil Permeability

- 1 = Rapid
- 2 = Moderate
- 3 = Slow
- 4 = Very slow

Subsoil Permeability

Water Erosion Hazard

- 1 = Low
- 2 = Moderate
- 3 = High
- 4 = Very high

Wind Erosion Hazard

- 1 = Low
- 2 = Moderate
- 3 = High

Internal Drainage

- 1 = Excessive
- 2 = Well
- 3 = Moderately well
- 4 = Somewhat poor
- 5 = Poor

Site Characteristics

Site Position

- 1 = Upland
- 2 = Foot slopes or Fans
- 3 = Floodplain
- 4 = Stream terrace or Lake plain

Parent Material

- 1 = Residuum or Colluvium
- 2 = Recent alluvium
- 3 = Old alluvium or Lacustrine
- 4 = Wind blown sands or silts
- 5 = Volcanic ash
- 6 = Two or more classes

Stoniness/Rockiness

- 1 = None
- 2 = Stony/Rocky
- 3 = Very stony/Rocky
- 4 = Extremely stony/Rocky

Slope

- 1 = 0-3%
- 2 = 3-7%
- 3 = 7-12%
- 4 = 12-20%
- 5 = > 20%

Management Interpretations

Drainage Feasibility

- 1 = Not needed
- 2 = Good
- 3 = Fair
- 4 = Poor

Irrigation Suitability

- 1 = Excellent
- 2 = Good
- 3 = Fair
- 4 = Poor
- 5 = Non-irrigable

Most Intensive Crop

- 1 = Row crop/Specialty crop
- 2 = Legume hay
- 3 = Dryland wheat
- 4 = Dryland hay
- 5 = Permanent pasture/Grass seed
- 6 = Timber grazing
- 7 = Rangeland grazing
- 8 = Forestry

Erosion Control Practice

- 1 = Water control, Cover crop, Standing stubble
- 2 = Stubble mulch, No-till
- 3 = Diversion terraces, No-till
- 4 = Strip crop, No-till
- 5 = Controlled grazing
- 6 = Watershed management

Reaction Correction

- 1 = None
- 2 = Correct acidity
- 3 = Correct alkalinity

Limitations for Septic

Tank Drainfields

- 1 = Slight
- 2 = Moderate
- 3 = Severe

TOTAL BACK

OSU 4058



Extension Service, Oregon State University, Corvallis, O. E. Smith, director. This publication was produced and distributed in furtherance of the Acts of Congress of May 8 and June 30, 1914. Extension work is a cooperative program of Oregon State University, the U.S. Department of Agriculture, and Oregon counties. Oregon State University Extension Service offers educational programs, activities, and materials—without regard to race, color, national origin, sex, age, or disability—as required by Title VI of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, and Section 504 of the Rehabilitation Act of 1973. Oregon State University Extension Service is an Equal Opportunity Employer.