PEDON DESCRIPTION -- NEON Site

Print Date: Apr 5 2019
Description Date: Jul 10 2018
Describer: Daniel Wood, Philip Goodin
NEON Plot ID: YELL_001
Site ID: S2018WY029001

Pedon ID: S2018WY029001
Site Note:
Pedon Note:
Lab Source ID:
Lab Pedon #:
Soil Name as Described/Sampled: Pachel
Classification: Fine-loamy, mixed, superactive, frigid Pachic Argiustolls

Soil Name as Correlated:

Classification:
Pedon Type: confirmation description
Pedon Purpose: laboratory sampling site
Taxon Kind: family
Associated Soils:
Physiographic Division: Rocky Mountain System
Physiographic Province: Middle Rocky Mountains
Physiographic Section:
State Physiographic Area:
Local Physiographic Area:
Geomorphic Setting: on footslope of mountainbase of mountains
on footslope of mountainbase of hillslope
Upslope Shape: concave
Cross Slope Shape: linear
Particle Size Control Section: 4 to 29 cm.
Description origin: Spreadsheet
Diagnostic Features: mollic epipedon 0 to 98 cm.
argillic horizon 4 to 29 cm.
argillic horizon 45 to 200 cm.
secondary carbonates 67 to 200 cm.

Country:
State: Wyoming
County: Park
MLRA: 43B -- Central Rocky Mountains
Soil Survey Area: WY665 -- Yellowstone National Park, Wyoming-Montana-Idaho
4-POW -- Powell, Wyoming
Map Unit:
Pit Location:
Quad Name: Blacktail Deer Creek, Wyoming
Std Latitude: 44.9559710
Std Longitude: -110.5419840

Latitude: 44 degrees 57 minutes 21.50 seconds north
Longitude: 110 degrees 32 minutes 31.14 seconds west
Datum: NAD83
UTM Zone: 12
UTM Easting: 536126 meters
UTM Northing: 4978161 meters

Primary Earth Cover: Grass/herbaceous cover
Secondary Earth Cover:
Existing Vegetation:
Parent Material:
Bedrock Kind:
Bedrock Depth:
Bedrock Hardness:
Bedrock Fracture Interval:
Surface Fragments:
Description database: MLRA04_Bozeman

Cont. Site ID: S2018WY029001 **Pedon ID:** S2018WY029001

Slope (%)	Elevation (meters)	Aspect (deg)	MAAT (C)	MSAT (C)	MWAT (C)	MAP (mm)	Frost-Free Days	Drainage Class	Slope Length (meters)	Upslope Length (meters)
9.0	2,036.0	343	6.0			432	100	well		

A--0 to 4 centimeters (0.0 to 1.6 inches); brown (7.5YR 4/2) broken face loam, black (7.5YR 2.5/1) broken face, moist; 20 percent clay; moderate medium granular structure; soft, friable, slightly sticky, slightly plastic; very fine roots throughout and fine roots throughout; 2 percent nonflat subangular indurated 2 to 5-millimeter Mixed rock fragments; noneffervescent, by HCl, 1 normal; neutral, pH 7.2, pH indicator solutions; clear smooth boundary.

Bt1--4 to 29 centimeters (1.6 to 11.4 inches); brown (7.5YR 4/2) broken face loam, black (7.5YR 2.5/1) broken face, moist; 24 percent clay; moderate medium subangular blocky structure; soft, very friable, slightly sticky, slightly plastic; very fine roots throughout and fine roots throughout; very fine low-continuity dendritic tubular and fine low-continuity dendritic tubular pores; 15 percent distinct clay films on all faces of peds; 4 percent nonflat subangular indurated 2 to 5-millimeter Mixed rock fragments and 4 percent nonflat subangular indurated 2 to 20-millimeter Mixed rock fragments; noneffervescent, by HCl, 1 normal; neutral, pH 6.8, pH indicator solutions; gradual wavy boundary.

Bw--29 to 45 centimeters (11.4 to 17.7 inches); brown (7.5YR 4/2) broken face loam, black (7.5YR 2.5/1) broken face, moist; 24 percent clay; weak medium granular structure; soft, very friable, moderately sticky, moderately plastic; very fine roots throughout and fine roots throughout; very fine low-continuity dendritic tubular pores; 3 percent nonflat subangular indurated 2 to 20-millimeter Mixed rock fragments and 4 percent nonflat subangular indurated 2 to 5-millimeter Mixed rock fragments; noneffervescent, by HCl, 1 normal; neutral, pH 6.8, pH indicator solutions; gradual smooth boundary.

Bt2--45 to 67 centimeters (17.7 to 26.4 inches); brown (7.5YR 4/2) broken face gravelly loam, black (7.5YR 2.5/1) broken face, moist; 26 percent clay; moderate medium subangular blocky structure; soft, friable, moderately sticky, moderately plastic; very fine roots throughout and fine roots throughout; very fine moderate-continuity dendritic tubular and fine low-continuity dendritic tubular pores; 25 percent distinct clay films on all faces of peds; 5 percent nonflat subangular indurated 2 to 20-millimeter Mixed rock fragments and 10 percent nonflat subangular indurated 2 to 5-millimeter Mixed rock fragments; noneffervescent, by HCl, 1 normal; neutral, pH 7.0, pH indicator solutions; gradual wavy boundary.

Btk1--67 to 98 centimeters (26.4 to 38.6 inches); brown (7.5YR 5/2) broken face gravelly clay loam, dark brown (7.5YR 3/2) broken face, moist; 28 percent clay; moderate medium subangular blocky structure; moderately hard, friable, moderately sticky, moderately plastic; very fine roots throughout and medium roots throughout and fine roots throughout; very fine moderate-continuity dendritic tubular pores; 10 percent faint carbonate coats on rock fragments and 35 percent distinct clay films on all faces of peds; 2 percent medium distinct cylindrical indurated cemented carbonate nodules with clear boundaries in matrix; 5 percent nonflat subangular indurated 5 to 20-millimeter Mixed rock fragments and 5 percent nonflat subrounded indurated 250 to 600-millimeter Mixed rock fragments and 8 percent nonflat subrounded indurated 76 to 250-millimeter Mixed rock fragments and 8 percent nonflat subangular indurated 20 to 76-millimeter Mixed rock fragments and 8 percent nonflat subangular indurated 2 to 5-millimeter Mixed rock fragments; noneffervescent, by HCl, 1 normal; neutral, pH 7.2, pH indicator solutions; gradual wavy boundary.

Btk2--98 to 126 centimeters (38.6 to 49.6 inches); light brown (7.5YR 6/3) broken face gravelly clay loam, brown (7.5YR 5/3) broken face, moist; 28 percent clay; moderate medium subangular blocky structure; moderately hard, friable, moderately sticky, moderately plastic; very fine roots throughout and fine roots throughout; very fine low-continuity tubular pores; 15 percent distinct carbonate coats on rock fragments and 40 percent distinct clay films on all faces of peds; 3 percent medium distinct irregular weakly cemented carbonate masses with diffuse boundaries in matrix; 2 percent nonflat subrounded indurated 76 to 250-millimeter Mixed rock fragments and 2 percent nonflat subrounded indurated 250 to 600-millimeter Mixed rock fragments and 3 percent nonflat subangular indurated 20 to 76-millimeter Mixed rock fragments and 4 percent nonflat subangular indurated 2 to 5-millimeter Mixed rock fragments and 5 percent nonflat subangular indurated 5 to 20-millimeter Mixed rock fragments; very slight effervescence, by HCl, 1 normal; slightly alkaline, pH 7.6, pH indicator solutions; gradual wavy boundary.

Btk3--126 to 161 centimeters (49.6 to 63.4 inches); light gray (10YR 7/2) broken face clay loam, brown (10YR 5/3) broken face, moist; 30 percent clay; moderate medium platy parts to moderate medium subangular blocky structure; moderately hard, friable, moderately sticky, moderately plastic; fine low-continuity tubular pores; 35 percent distinct clay films on all faces of peds and 40 percent distinct carbonate coats on bottom of rock fragments; 35 percent medium prominent threadlike weakly cemented carbonate masses with clear boundaries in matrix; 3 percent nonflat subangular indurated 5 to 20-millimeter Mixed rock fragments and 3 percent nonflat subangular indurated 20 to 76-millimeter Mixed rock fragments and 5 percent nonflat subangular indurated 2 to 5-millimeter Mixed rock fragments; strong effervescence, by HCl, 1 normal; moderately alkaline, pH 8.2, pH indicator solutions; diffuse wavy boundary.

Btk4--161 to 200 centimeters (63.4 to 78.7 inches); pale brown (10YR 6/3) broken face clay loam, brown (10YR 4/3) broken face, moist; 30 percent clay; strong medium platy structure; hard, firm, moderately sticky, moderately plastic; fine low-continuity tubular pores; 40 percent distinct carbonate coats on bottom of rock fragments and 65 percent prominent clay films on all faces of peds; 15 percent medium prominent threadlike weakly cemented carbonate masses with clear boundaries in matrix; 3 percent nonflat subangular indurated 5 to 20-millimeter Mixed rock fragments and 3 percent nonflat subangular indurated 20 to 76-millimeter Mixed rock fragments and 5 percent nonflat subangular indurated 2 to 5-millimeter Mixed rock fragments; strong effervescence, by HCl, 1 normal; moderately alkaline, pH 8.4, pH indicator solutions.

PEDON DESCRIPTION -- NEON Site YELL

Print Date: Apr 5 2019
Description Date: Aug 11 2018
Describer: Chris Fabian
NEON Plot ID: YELL_004
Site ID: S2018WY029004

Pedon ID: S2018WY029004
Site Note:
Pedon Note:
Lab Source ID: KSSL
Lab Pedon #: 18N2842
Soil Name as Described/Sampled: snd
Classification: Loamy-skeletal, mixed, superactive Pachic Argicryolls

Soil Name as Correlated:

Classification:
Pedon Type:
Pedon Purpose: soil survey inventory
Taxon Kind: series
Associated Soils:
Physiographic Division:
Physiographic Province:

Physiographic Section:

State Physiographic Area:
Local Physiographic Area:
Geomorphic Setting: lf ground moraine
ls mountains
Upslope Shape: concave
Cross Slope Shape: concave
Particle Size Control Section:

Description origin: Pedon PC 6.3
Diagnostic Features: ? to ? cm.

Country: United States
State: Wyoming
County: Park
MLRA: 43B -- Central Rocky Mountains
Soil Survey Area: WY665 -- Yellowstone National Park, Wyoming-Montana-Idaho
Map Unit:
Pit Location:
Quad Name:
Std Latitude: 44.9627200
Std Longitude: -110.5931200

Latitude: 44 degrees 57 minutes 45.80 seconds north
Longitude: 110 degrees 35 minutes 35.23 seconds west
Datum: WGS84
UTM Zone: 12
UTM Easting: 532089 meters
UTM Northing: 4978890 meters

Primary Earth Cover: Grass/herbaceous cover
Secondary Earth Cover: Other grass/herbaceous cover
Existing Vegetation: beardtongue, bluebunch wheatgrass, buckwheat, cinquefoil, Columbia needlegrass, fragrant bedstraw, goldenrod, Idaho fescue, mountain big sagebrush, phlox, pussytoes, sticky purple geranium, Wyoming big sagebrush
Parent Material: subglacial till derived from rhyolite
Bedrock Kind:
Bedrock Depth:
Bedrock Hardness:
Bedrock Fracture Interval:
Surface Fragments: and 0.0 percent nonflat indurated 250- to 600-millimeter

Description database: KSSL

Cont. Site ID: S2018WY029004 **Pedon ID:** S2018WY029004

Slope (%)	Elevation (meters)	Aspect (deg)	MAAT (C)	MSAT (C)	MWAT (C)	MAP (mm)	Frost-Free Days	Drainage Class	Slope Length (meters)	Upslope Length (meters)
21.0	1,996.0	37						well		

A1--0 to 7 centimeters (0.0 to 2.8 inches); black (10YR 2/1) gravelly loam, very dark grayish brown (10YR 3/2), dry; 34 percent sand; 17 percent clay; moderate fine granular structure; fine roots and coarse roots; 1 percent nonflat indurated 75 to 250-millimeter Volcanic rock fragments and 2 percent nonflat indurated 20 to 75-millimeter Volcanic rock fragments and 20 percent nonflat indurated 2 to 20-millimeter Volcanic rock fragments; noneffervescent; moderately acid, pH 6.0; clear smooth boundary. Lab sample # 18N06666

A2--7 to 28 centimeters (2.8 to 11.0 inches); very dark brown (10YR 2/2) very gravelly loam, dark grayish brown (10YR 4/2), dry; 35 percent sand; 22 percent clay; moderate medium subangular blocky structure; very fine roots and medium roots and fine roots and coarse roots; common very fine dendritic tubular pores; 10 percent nonflat indurated 75 to 250-millimeter Volcanic rock fragments and 15 percent nonflat indurated 20 to 75-millimeter Volcanic rock fragments and 25 percent nonflat indurated 2 to 20-millimeter Volcanic rock fragments; noneffervescent; moderately acid, pH 5.8; clear wavy boundary. Lab sample # 18N06667

BAt1--28 to 72 centimeters (11.0 to 28.3 inches); dark brown (7.5YR 3/3) extremely cobbly sandy clay loam, dark yellowish brown (10YR 4/4), dry; 65 percent sand; 23 percent clay; moderate fine subangular blocky structure; very fine roots and medium roots and fine roots and coarse roots; many very fine dendritic tubular pores; 10 percent clay bridges and 25 percent clay films; 15 percent nonflat indurated 2 to 20-millimeter Volcanic rock fragments and 15 percent nonflat indurated 20 to 75-millimeter Volcanic rock fragments and 15 percent nonflat indurated 250 to 600-millimeter Volcanic rock fragments and 25 percent nonflat indurated 75 to 250-millimeter Volcanic rock fragments; noneffervescent; moderately acid, pH 6.0; gradual wavy boundary. Lab sample # 18N06668

BAt2--72 to 110 centimeters (28.3 to 43.3 inches); very dark brown (7.5YR 2.5/3) extremely gravelly sandy clay loam, brown (7.5YR 4/3), dry; 65 percent sand; 24 percent clay; massive; very fine roots and medium roots; many very fine dendritic tubular pores; 10 percent clay bridges and 15 percent clay films; 25 percent nonflat indurated 2 to 20-millimeter Volcanic rock fragments and 30 percent nonflat indurated 20 to 75-millimeter Volcanic rock fragments and 30 percent nonflat indurated 75 to 250-millimeter Volcanic rock fragments; noneffervescent; moderately acid, pH 6.0. Lab sample # 18N06669

PEDON DESCRIPTION -- NEON Site YELL

Print Date: Apr 5 2019
Description Date: Aug 18 2018
Describer: Chris Fabian
NEON Plot ID: YELL_005
Site ID: S2018WY029005

Pedon ID: S2018WY029005
Site Note:
Pedon Note:
Lab Source ID: KSSL
Lab Pedon #: 18N2843
Soil Name as Described/Sampled: snd
Classification: Fine-loamy, mixed, superactive Ustic Argicryolls

Soil Name as Correlated:

Classification:
Pedon Type:
Pedon Purpose: soil survey inventory
Taxon Kind: series
Associated Soils:
Physiographic Division:
Physiographic Province:

Physiographic Section:

State Physiographic Area:
Local Physiographic Area:
Geomorphic Setting: on backslope of nose slope of ls foothills on backslope of nose slope of lf hill
Upslope Shape: convex
Cross Slope Shape: linear
Particle Size Control Section:
Description origin: Pedon PC 6.3
Diagnostic Features: ? to ? cm.

Country: United States
State: Wyoming
County: Park
MLRA: 43B -- Central Rocky Mountains
Soil Survey Area: WY665 -- Yellowstone National Park, Wyoming-Montana-Idaho
Map Unit:
Pit Location:
Quad Name:
Std Latitude: 44.9482700
Std Longitude: -110.6315200

Latitude: 44 degrees 56 minutes 53.78 seconds north
Longitude: 110 degrees 37 minutes 53.47 seconds west
Datum: WGS84
UTM Zone: 12
UTM Easting: 529068 meters
UTM Northing: 4977270 meters

Primary Earth Cover: Shrub cover
Secondary Earth Cover: Other grass/herbaceous cover
Existing Vegetation: bluebunch wheatgrass, bluegrass, Columbia needlegrass, creeping barberry, Idaho fescue, Junegrass, mountain big sagebrush, rabbitbrush, snowberry, sticky purple geranium, Wyoming big sagebrush
Parent Material: colluvium and/or till
Bedrock Kind:
Bedrock Depth:
Bedrock Hardness:
Bedrock Fracture Interval:
Surface Fragments:
Description database: KSSL

Cont. Site ID: S2018WY029005 **Pedon ID:** S2018WY029005

Slope (%)	Elevation (meters)	Aspect (deg)	MAAT (C)	MSAT (C)	MWAT (C)	MAP (mm)	Frost-Free Days	Drainage Class	Slope Length (meters)	Upslope Length (meters)
37.0	2,118.0	118						well		

A--0 to 6 centimeters (0.0 to 2.4 inches); black (10YR 2/1) highly organic loam, dark grayish brown (10YR 4/2), dry; 40 percent sand; 13 percent clay; weak fine granular structure; slightly hard, friable, slightly sticky, slightly plastic; common very fine roots and common medium roots and common fine roots and common coarse roots; common very fine and common medium and common fine and common coarse pores; 1 percent nonflat indurated 20 to 250-millimeter Volcanic rock fragments and 13 percent nonflat indurated 2 to 75-millimeter Volcanic rock fragments; noneffervescent; moderately acid, pH 6.0; clear smooth boundary. Lab sample # 18N06670

BAt--6 to 35 centimeters (2.4 to 13.8 inches); very dark brown (10YR 2/2) gravelly loam, dark grayish brown (10YR 4/2), dry; 42 percent sand; 24 percent clay; moderate fine subangular blocky, and moderate medium subangular blocky structure; slightly hard, friable, moderately sticky, moderately plastic; common very fine roots and common fine roots and common coarse roots; common very fine and common fine pores; 2 percent faint clay films on surfaces along pores; 1 percent nonflat indurated 75 to 250-millimeter Volcanic rock fragments and 3 percent nonflat indurated 20 to 75-millimeter Volcanic rock fragments and 13 percent nonflat indurated 2 to 20-millimeter Volcanic rock fragments; noneffervescent; moderately acid, pH 6.0; clear wavy boundary. Lab sample # 18N06671

Bt--35 to 62 centimeters (13.8 to 24.4 inches); brown (10YR 4/3) gravelly sandy clay loam, brown (10YR 5/3), dry; 49 percent sand; 26 percent clay; moderate coarse prismatic, and weak medium subangular blocky structure; moderately hard, firm, moderately sticky, moderately plastic; common medium roots and common fine roots and common coarse roots; common very fine and common fine pores; 25 percent distinct clay bridges between sand grains; 1 percent nonflat indurated 20 to 75-millimeter Volcanic rock fragments and 5 percent nonflat indurated 75 to 250-millimeter Volcanic rock fragments and 17 percent nonflat indurated 2 to 20-millimeter Volcanic rock fragments; noneffervescent; moderately acid, pH 6.0; clear wavy boundary. Lab sample # 18N06672

BCt--62 to 105 centimeters (24.4 to 41.3 inches); brown (10YR 4/3) cobbly loam, 50 percent brown (7.5YR 4/4) and 50 percent brown (10YR 5/3), dry; 38 percent sand; 26 percent clay; 10 percent (10YR 6/2) and 10 percent (10YR 4/6) and 10 percent (10YR 4/3) and 10 percent (10YR 3/4) mottles; weak coarse subangular blocky structure; slightly hard, friable, moderately sticky, moderately plastic; common very fine roots and common coarse roots; common very fine dendritic tubular pores; 5 percent distinct clay films on surfaces along pores and 8 percent distinct clay bridges between sand grains; 2 percent nonflat indurated 20 to 75-millimeter Volcanic rock fragments and 6 percent nonflat indurated 75 to 250-millimeter Volcanic rock fragments and 9 percent nonflat indurated 2 to 20-millimeter Volcanic rock fragments; noneffervescent; moderately acid, pH 6.0. Lab sample # 18N06673

PEDON DESCRIPTION -- NEON Site YELL

Print Date: Apr 5 2019
Description Date: Aug 11 2018
Describer: Chris Fabian
NEON Plot ID: YELL_007
Site ID: S2018WY029007

Pedon ID: S2018WY029007
Site Note:
Pedon Note:
Lab Source ID: KSSL
Lab Pedon #: 18N2844
Soil Name as Described/Sampled: snd
Classification: Fine-loamy, mixed, superactive Pachic Argicryolls

Soil Name as Correlated:

Classification:
Pedon Type:
Pedon Purpose: soil survey inventory
Taxon Kind: series
Associated Soils:
Physiographic Division:
Physiographic Province:

Physiographic Section:

State Physiographic Area:

Local Physiographic Area:
Geomorphic Setting: on footslope of base slope of ls foothills
on footslope of base slope of ls mountains
on footslope of base slope of lf hill
Upslope Shape: linear
Cross Slope Shape: concave
Particle Size Control Section:
Description origin: Pedon PC 6.3
Diagnostic Features: ? to ? cm.

Country: United States
State: Wyoming
County: Park
MLRA: 43B -- Central Rocky Mountains
Soil Survey Area: WY665 -- Yellowstone National Park, Wyoming-Montana-Idaho
Map Unit:
Pit Location:
Quad Name:
Std Latitude: 44.9176500
Std Longitude: -110.4288300

Latitude: 44 degrees 55 minutes 3.54 seconds north
Longitude: 110 degrees 25 minutes 43.79 seconds west
Datum: WGS84
UTM Zone: 12
UTM Easting: 545081 meters
UTM Northing: 4973961 meters

Primary Earth Cover: Shrub cover
Secondary Earth Cover: Other grass/herbaceous cover
Existing Vegetation: arnica, basin wildrye, bluebunch wheatgrass, bluegrass, fragrant bedstraw, green needlegrass, Idaho fescue, lupine, mountain big sagebrush, mountain brome, sedge, sticky purple geranium, timothy, Tracy's bluegrass, Virginia strawberry, yarrow
Parent Material: colluvium derived from rhyolite and/or colluvium derived from tuff and/or colluvium derived from basalt
Bedrock Kind:
Bedrock Depth:
Bedrock Hardness:
Bedrock Fracture Interval:
Surface Fragments:
Description database: KSSL

Cont. Site ID: S2018WY029007 **Pedon ID:** S2018WY029007

Slope (%)	Elevation (meters)	Aspect (deg)	MAAT (C)	MSAT (C)	MWAT (C)	MAP (mm)	Frost-Free Days	Drainage Class	Slope Length (meters)	Upslope Length (meters)
32.0	2,089.0	46						well		

A1--0 to 6 centimeters (0.0 to 2.4 inches); very dark brown (10YR 2/2) gravelly highly organic sandy loam, grayish brown (10YR 5/2), dry; 65 percent sand; 14 percent clay; weak fine granular structure; many very fine roots and common medium roots and common fine roots and common coarse roots; 1 percent nonflat indurated 20 to 75-millimeter unspecified fragments and 32 percent nonflat indurated 2 to 20-millimeter unspecified fragments; slightly acid, pH 6.4; clear smooth boundary. Lab sample # 18N06674

A2--6 to 14 centimeters (2.4 to 5.5 inches); very dark brown (7.5YR 2.5/3) gravelly sandy loam, brown (10YR 4/3), dry; 60 percent sand; 16 percent clay; weak fine subangular blocky structure; common very fine roots and common medium roots and common fine roots and common coarse roots; common very fine dendritic tubular and many fine tubular pores; 2 percent nonflat indurated 20 to 75-millimeter unspecified fragments and 28 percent nonflat indurated 2 to 20-millimeter unspecified fragments; slightly acid, pH 6.4; clear wavy boundary. Lab sample # 18N06675

BAt1--14 to 25 centimeters (5.5 to 9.8 inches); very dark grayish brown (10YR 3/2) gravelly sandy clay loam, brown (10YR 4/3), dry; 60 percent sand; 24 percent clay; weak medium subangular blocky structure; common very fine roots and common medium roots and common fine roots; many medium tubular pores; 2 percent faint clay bridges; 2 percent nonflat indurated 20 to 75-millimeter unspecified fragments and 25 percent nonflat indurated 2 to 20-millimeter unspecified fragments; slightly acid, pH 6.2; gradual wavy boundary. Lab sample # 18N06676

BAt2--25 to 60 centimeters (9.8 to 23.6 inches); very dark grayish brown (10YR 3/2) gravelly sandy clay loam, dark grayish brown (10YR 4/2), dry; 65 percent sand; 21 percent clay; weak medium subangular blocky structure; common very fine roots and common medium roots and common fine roots; common fine dendritic tubular pores; 5 percent distinct clay bridges and 10 percent faint clay bridges; 5 percent nonflat indurated 20 to 75-millimeter unspecified fragments and 20 percent nonflat indurated 2 to 20-millimeter unspecified fragments; moderately acid, pH 6.0; gradual wavy boundary. Lab sample # 18N06677

BCt--60 to 105 centimeters (23.6 to 41.3 inches); dark brown (10YR 3/3) gravelly sandy loam, brown (10YR 4/3), dry; 68 percent sand; 13 percent clay; weak coarse prismatic structure; common very fine roots and common medium roots and common fine roots throughout; common fine dendritic tubular pores; 10 percent faint clay bridges; 8 percent nonflat indurated 20 to 75-millimeter unspecified fragments and 20 percent nonflat indurated 2 to 20-millimeter unspecified fragments; moderately acid, pH 6.0. Lab sample # 18N06678

PEDON DESCRIPTION -- NEON Site YELL

Print Date: Apr 5 2019
Description Date: Aug 9 2018
Describer: Chris Fabian
NEON Plot ID: YELL_012
Site ID: S2018WY029012

Pedon ID: S2018WY029012
Site Note:
Pedon Note:
Lab Source ID: KSSL
Lab Pedon #: 18N2845
Soil Name as Described/Sampled: snd
Classification: Loamy-skeletal, mixed, superactive Pachic Haplocryolls

Soil Name as Correlated:

Classification:
Pedon Type:
Pedon Purpose: soil survey inventory
Taxon Kind: series
Associated Soils:
Physiographic Division:
Physiographic Province:
Physiographic Section:

State Physiographic Area:

Local Physiographic Area:
Geomorphic Setting: on footslope of base slope of ls mountains on footslope of base slope of lf colluvial apron
Upslope Shape: linear
Cross Slope Shape: linear
Particle Size Control Section:

Description origin: Pedon PC 6.3
Diagnostic Features: ? to ? cm.

Country: United States
State: Wyoming
County: Park
MLRA: 43B -- Central Rocky Mountains
Soil Survey Area: WY665 -- Yellowstone National Park, Wyoming-Montana-Idaho
Map Unit:
Pit Location:
Quad Name:
Std Latitude: 44.9445100
Std Longitude: -110.4338800

Latitude: 44 degrees 56 minutes 40.24 seconds north
Longitude: 110 degrees 26 minutes 1.97 seconds west
Datum: WGS84
UTM Zone: 12
UTM Easting: 544662 meters
UTM Northing: 4976942 meters

Primary Earth Cover: Tree cover
Secondary Earth Cover: Other shrub cover
Existing Vegetation: bluebunch wheatgrass, common juniper, creeping barberry, Douglas-fir, Idaho fescue, lodgepole pine, mountain snowberry, pinegrass, White Mountain sedge, white spirea
Parent Material: colluvium derived from gneiss and/or colluvium derived from volcanic rock over subglacial till
Bedrock Kind:
Bedrock Depth:
Bedrock Hardness:
Bedrock Fracture Interval:
Surface Fragments: 6.0 percent nonflat indurated 250- to 600-millimeter and 8.0 percent nonflat indurated 600

Description database: KSSL

Cont. Site ID: S2018WY029012 **Pedon ID:** S2018WY029012

Slope (%)	Elevation (meters)	Aspect (deg)	MAAT (C)	MSAT (C)	MWAT (C)	MAP (mm)	Frost-Free Days	Drainage Class	Slope Length (meters)	Upslope Length (meters)
24.0	1,920.0	260						well		

Oi--0 to 3 centimeters (0.0 to 1.2 inches); black (10YR 2/1) slightly decomposed plant material, very dark brown (10YR 2/2), dry; moderately acid, pH 6.0; clear smooth boundary. Lab sample # 18N06679

A1--3 to 22 centimeters (1.2 to 8.7 inches); dark olive brown (2.5Y 3/3) gravelly sandy loam, grayish brown (2.5Y 5/2), dry; 55 percent sand; 17 percent clay; weak fine subangular blocky structure; common very fine roots and common medium roots and common fine roots and common coarse roots; common fine dendritic tubular pores; 3 percent nonflat indurated 75 to 250-millimeter unspecified fragments and 3 percent nonflat indurated 250 to 600-millimeter unspecified fragments and 10 percent nonflat indurated 2 to 20-millimeter unspecified fragments; slightly acid, pH 6.2; clear wavy boundary. Lab sample # 18N06680

A2--22 to 48 centimeters (8.7 to 18.9 inches); dark brown (10YR 3/3) extremely gravelly sandy loam, brown (10YR 5/3), dry; 70 percent sand; 16 percent clay; weak medium subangular blocky structure; common very fine roots and common medium roots and common fine roots; common fine dendritic tubular pores; 8 percent nonflat indurated 600 to 3000-millimeter unspecified fragments and 10 percent nonflat indurated 2 to 20-millimeter unspecified fragments and 15 percent nonflat indurated 250 to 600-millimeter unspecified fragments and 17 percent nonflat indurated 75 to 250-millimeter unspecified fragments and 35 percent nonflat 20 to 75-millimeter unspecified fragments; slightly acid, pH 6.2; abrupt wavy boundary. Lab sample # 18N06681

CA--48 to 85 centimeters (18.9 to 33.5 inches); 80 percent dark yellowish brown (10YR 3/4) and 20 percent dark brown (10YR 3/3) extremely cobbly sandy loam, 50 percent brown (10YR 4/3) and 50 percent brown (10YR 4/3), dry; 63 percent sand; 16 percent clay; massive; common very fine roots; 10 percent nonflat indurated 2 to 20-millimeter unspecified fragments and 15 percent nonflat indurated 250 to 600-millimeter unspecified fragments and 20 percent nonflat indurated 75 to 250-millimeter unspecified fragments and 30 percent nonflat indurated 20 to 75-millimeter unspecified fragments; slightly acid, pH 6.2. Lab sample # 18N06682

PEDON DESCRIPTION -- NEON Site YELL

Print Date: Apr 5 2019
Description Date: Aug 11 2018
Describer: Chris Fabian
NEON Plot ID: YELL_019
Site ID: S2018WY029019

Pedon ID: S2018WY029019
Site Note:
Pedon Note:
Lab Source ID: KSSL
Lab Pedon #: 18N2846
Soil Name as Described/Sampled: snd
Classification: Fine-loamy, mixed, superactive Ustic Haplocryolls

Soil Name as Correlated:

Classification:
Pedon Type:
Pedon Purpose: soil survey inventory
Taxon Kind: series
Associated Soils:
Physiographic Division:
Physiographic Province:

Physiographic Section:

State Physiographic Area:

Local Physiographic Area:
Geomorphic Setting: on backslope of side slope of mountainflank of lf hillside
on backslope of side slope of mountainflank of ls mountains
Upslope Shape: linear
Cross Slope Shape: linear
Particle Size Control Section:

Description origin: Pedon PC 6.3
Diagnostic Features: ? to ? cm.

Country: United States
State: Wyoming
County: Park
MLRA: 43B -- Central Rocky Mountains
Soil Survey Area: WY665 -- Yellowstone National Park, Wyoming-Montana-Idaho
Map Unit:
Pit Location:
Quad Name:
Std Latitude: 44.9554800
Std Longitude: -110.4945500

Latitude: 44 degrees 57 minutes 19.73 seconds north
Longitude: 110 degrees 29 minutes 40.38 seconds west
Datum: WGS84
UTM Zone: 12
UTM Easting: 539868 meters
UTM Northing: 4978129 meters

Primary Earth Cover: Shrub cover
Secondary Earth Cover: Other grass/herbaceous cover
Existing Vegetation: buckwheat, geranium, Geyer's sedge, Idaho fescue, lupine, mountain big sagebrush, rabbitbrush, yarrow
Parent Material: subglacial till derived from volcanic rock
Bedrock Kind:

Bedrock Depth:

Bedrock Hardness:
Bedrock Fracture Interval:
Surface Fragments: 0.0 percent nonflat indurated 600

Description database: KSSL

Cont. Site ID: S2018WY029019 **Pedon ID:** S2018WY029019

Slope (%)	Elevation (meters)	Aspect (deg)	MAAT (C)	MSAT (C)	MWAT (C)	MAP (mm)	Frost-Free Days	Drainage Class	Slope Length (meters)	Upslope Length (meters)
15.0	2,160.0	19						well		

A1--0 to 13 centimeters (0.0 to 5.1 inches); very dark brown (10YR 2/2) loam, very dark grayish brown (10YR 3/2), dry; 40 percent sand; 27 percent clay; weak fine granular structure; soft, very friable, nonsticky, nonplastic; very fine roots and medium roots and fine roots and coarse roots; 1 percent nonflat indurated 20 to 75-millimeter unspecified fragments and 13 percent nonflat indurated 2 to 20-millimeter unspecified fragments; noneffervescent; slightly acid, pH 6.2; clear wavy boundary. Lab sample # 18N06683

A2--13 to 36 centimeters (5.1 to 14.2 inches); very dark brown (10YR 2/2) loam, very dark grayish brown (10YR 3/2), dry; 38 percent sand; 26 percent clay; weak fine subangular blocky structure; slightly hard, very friable, slightly sticky, moderately plastic; very fine roots and medium roots and fine roots; very fine dendritic tubular and medium tubular and dendritic tubular pores; 2 percent nonflat indurated 20 to 75-millimeter unspecified fragments and 12 percent nonflat indurated 2 to 20-millimeter unspecified fragments; noneffervescent; moderately acid, pH 6.0; abrupt wavy boundary. Lab sample # 18N06684

2C--36 to 68 centimeters (14.2 to 26.8 inches); dark yellowish brown (10YR 3/4) extremely paragravelly sandy clay loam, dark yellowish brown (10YR 4/4), dry; 55 percent sand; 22 percent clay; massive; hard, friable, slightly sticky, moderately plastic; very fine roots and fine roots; 2 percent nonflat indurated 75 to 250-millimeter unspecified fragments and 10 percent nonflat indurated 2 to 20-millimeter unspecified fragments and 30 percent nonflat indurated 20 to 75-millimeter unspecified fragments and 45 percent nonflat weakly cemented 2 to 20-millimeter unspecified fragments; noneffervescent; moderately acid, pH 5.8; gradual wavy boundary. Lab sample # 18N06685

2Cr--68 to 85 centimeters (26.8 to 33.5 inches); bedrock; massive; .

PEDON DESCRIPTION -- NEON Site YELL

Print Date: Apr 5 2019
Description Date: Aug 7 2018
Describer: Chris Fabian
NEON Plot ID: YELL_021
Site ID: S2018WY029021

Pedon ID: S2018WY029021
Site Note:
Pedon Note:
Lab Source ID: KSSL
Lab Pedon #: 18N2847
Soil Name as Described/Sampled: snd
Classification: Loamy-skeletal over fragmental, mixed, superactive Ustic Haplocryepts
Soil Name as Correlated:

Classification:
Pedon Type:
Pedon Purpose: soil survey inventory
Taxon Kind: series
Associated Soils:
Physiographic Division:
Physiographic Province:
Physiographic Section:

State Physiographic Area:
Local Physiographic Area:
Geomorphic Setting: ls mountains
lf mountain slope
lf bench on lf hillslope
Upslope Shape: linear
Cross Slope Shape: linear
Particle Size Control Section:
Description origin: Pedon PC 6.3
Diagnostic Features: ? to ? cm.

Country: United States
State: Wyoming
County: Park
MLRA: 43B -- Central Rocky Mountains
Soil Survey Area: WY665 -- Yellowstone National Park, Wyoming-Montana-Idaho
Map Unit:
Pit Location:
Quad Name:
Std Latitude: 44.9038200
Std Longitude: -110.4183000

Latitude: 44 degrees 54 minutes 13.75 seconds north
Longitude: 110 degrees 25 minutes 5.88 seconds west
Datum: WGS84
UTM Zone: 12
UTM Easting: 545924 meters
UTM Northing: 4972431 meters

Primary Earth Cover: Tree cover
Secondary Earth Cover: Other shrub cover
Existing Vegetation: buffaloberry, common juniper, common wormwood, Douglas-fir, Engelmann spruce, grouse whortleberry, limber pine, lodgepole pine, twinflower
Parent Material: till derived from rhyolite
Bedrock Kind:

Bedrock Depth:

Bedrock Hardness:
Bedrock Fracture Interval:
Surface Fragments:
Description database: KSSL

Cont. Site ID: S2018WY029021 **Pedon ID:** S2018WY029021

Slope (%)	Elevation (meters)	Aspect (deg)	MAAT (C)	MSAT (C)	MWAT (C)	MAP (mm)	Frost-Free Days	Drainage Class	Slope Length (meters)	Upslope Length (meters)
13.0	2,106.0	345						well		

Oi--0 to 7 centimeters (0.0 to 2.8 inches); black (10YR 2/1) slightly decomposed plant material, very dark brown (10YR 2/2), dry; common fine roots throughout; clear wavy boundary. Lab sample # 18N06686

E--7 to 35 centimeters (2.8 to 13.8 inches); brown (7.5YR 4/2) extremely cobbly sandy loam, pinkish gray (7.5YR 6/2), dry; 53 percent sand; 19 percent clay; weak medium subangular blocky, and moderate fine subangular blocky structure; slightly hard, very friable, nonsticky, nonplastic; many very fine roots throughout and common coarse roots throughout; 1 percent nonflat indurated 250 to 600-millimeter unspecified fragments and 20 percent nonflat indurated 75 to 250-millimeter unspecified fragments and 40 percent nonflat indurated 2 to 20-millimeter unspecified fragments; moderately acid, pH 5.8; abrupt smooth boundary. Lab sample # 18N06687

C--35 to 65 centimeters (13.8 to 25.6 inches); boulders; common medium roots throughout and many fine roots throughout; common irregular pores; 100 percent nonflat subrounded indurated 600 to 3000-millimeter unspecified fragments.

PEDON DESCRIPTION -- NEON Site YELL

Print Date: Apr 5 2019
Description Date: Aug 9 2018
Describer: Chris Fabian
NEON Plot ID: YELL_022
Site ID: S2018WY029022

Pedon ID: S2018WY029022
Site Note:
Pedon Note:
Lab Source ID: KSSL
Lab Pedon #: 18N2848
Soil Name as Described/Sampled: snd
Classification: Loamy-skeletal, mixed, superactive Lithic Haplocryepts

Soil Name as Correlated:

Classification:
Pedon Type:
Pedon Purpose: soil survey inventory
Taxon Kind: series
Associated Soils:
Physiographic Division:
Physiographic Province:

Physiographic Section:

State Physiographic Area:
Local Physiographic Area:
Geomorphic Setting: on backslope of side slope of ls mountains
on backslope of side slope of lf valley side
on backslope of side slope of lf strike valley
Upslope Shape: linear
Cross Slope Shape: concave
Particle Size Control Section:

Description origin: Pedon PC 6.3
Diagnostic Features: ? to ? cm.

Country: United States
State: Wyoming
County: Park
MLRA: 43B -- Central Rocky Mountains
Soil Survey Area: WY665 -- Yellowstone National Park, Wyoming-Montana-Idaho
Map Unit:
Pit Location:
Quad Name:
Std Latitude: 44.9384600
Std Longitude: -110.4320300

Latitude: 44 degrees 56 minutes 18.46 seconds north
Longitude: 110 degrees 25 minutes 55.31 seconds west
Datum: WGS84
UTM Zone: 12
UTM Easting: 544813 meters
UTM Northing: 4976271 meters

Primary Earth Cover: Grass/herbaceous cover
Secondary Earth Cover: Other grass/herbaceous cover
Existing Vegetation: bluebunch wheatgrass, creeping barberry, dogbane, Douglas-fir, Idaho fescue, kinnikinnick, lodgepole pine, needlepod rush, roundfruit rush
Parent Material: colluvium derived from gneiss
Bedrock Kind:
Bedrock Depth:
Bedrock Hardness:
Bedrock Fracture Interval:
Surface Fragments: 15.0 percent nonflat indurated 250- to 600-millimeter and 8.0 percent nonflat indurated 600

Description database: KSSL

Cont. Site ID: S2018WY029022 **Pedon ID:** S2018WY029022

Slope (%)	Elevation (meters)	Aspect (deg)	MAAT (C)	MSAT (C)	MWAT (C)	MAP (mm)	Frost-Free Days	Drainage Class	Slope Length (meters)	Upslope Length (meters)
57.0	1,943.0	270						well		

Oi--0 to 5 centimeters (0.0 to 2.0 inches); black (10YR 2/1) slightly decomposed plant material, very dark brown (10YR 2/2), dry; . Lab sample # 18N06688

A--5 to 15 centimeters (2.0 to 5.9 inches); very dark brown (7.5YR 2.5/3) very flaggy sandy loam, dark yellowish brown (10YR 4/4), dry; 54 percent sand; 15 percent clay; weak medium subangular blocky structure; slightly hard, friable, slightly sticky, slightly plastic; common medium roots and common fine roots and common coarse roots; common very fine interstitial and common fine dendritic tubular pores; 18 percent flat indurated 2 to 150-millimeter Gneiss fragments and 22 percent nonflat indurated 150 to 380-millimeter Gneiss fragments; noneffervescent. Lab sample # 18N06689

Bw--15 to 49 centimeters (5.9 to 19.3 inches); dark yellowish brown (10YR 3/4) extremely flaggy fine sandy loam, yellowish brown (10YR 5/4), dry; 60 percent sand; 12 percent clay; weak medium subangular blocky structure; slightly hard, friable, nonsticky, nonplastic; common very fine roots and common medium roots and common fine roots and common coarse roots; many very fine and common fine dendritic tubular and common fine pores; 25 percent nonflat indurated 2 to 150-millimeter Gneiss fragments and 45 percent nonflat indurated 150 to 380-millimeter Gneiss fragments; noneffervescent. Lab sample # 18N06690

R--49 to 100 centimeters (19.3 to 39.4 inches); bedrock; massive; .

PEDON DESCRIPTION -- NEON Site YELL

Print Date: Apr 5 2019
Description Date: Aug 1 2018
Describer: Chris Fabian
NEON Plot ID: YELL_024
Site ID: S2018WY029024

Pedon ID: S2018WY029024
Site Note:
Pedon Note:
Lab Source ID: KSSL
Lab Pedon #: 18N2849
Soil Name as Described/Sampled: snd
Classification: Fine-loamy, mixed, superactive, frigid Calcic Haplustepts

Soil Name as Correlated:

Classification:
Pedon Type:
Pedon Purpose: soil survey inventory
Taxon Kind: series
Associated Soils:
Physiographic Division:
Physiographic Province:

Physiographic Section:

State Physiographic Area:
Local Physiographic Area:
Geomorphic Setting: ls mountains
lf lateral moraine
Upslope Shape: linear
Cross Slope Shape: linear
Particle Size Control Section:

Description origin: Pedon PC 6.3
Diagnostic Features: ? to ? cm.

Country: United States
State: Wyoming
County: Park
MLRA: 43B -- Central Rocky Mountains
Soil Survey Area: WY665 -- Yellowstone National Park, Wyoming-Montana-Idaho
Map Unit:
Pit Location:
Quad Name:
Std Latitude: 44.9680100
Std Longitude: -110.4919000

Latitude: 44 degrees 58 minutes 4.84 seconds north
Longitude: 110 degrees 29 minutes 30.84 seconds west
Datum: WGS84
UTM Zone: 12
UTM Easting: 540068 meters
UTM Northing: 4979522 meters

Primary Earth Cover: Grass/herbaceous cover
Secondary Earth Cover: Other grass/herbaceous cover
Existing Vegetation: bluebunch wheatgrass, horsebrush, Indian ricegrass, Junegrass, milkvetch, phlox, rabbitbrush, sage, wild onion
Parent Material: subglacial till
Bedrock Kind:
Bedrock Depth:
Bedrock Hardness:
Bedrock Fracture Interval:
Surface Fragments: 2.9 percent nonflat indurated 250- to 600-millimeter and 0.7 percent nonflat indurated 600

Description database: KSSL

Cont. Site ID: S2018WY029024 **Pedon ID:** S2018WY029024

Slope (%)	Elevation (meters)	Aspect (deg)	MAAT (C)	MSAT (C)	MWAT (C)	MAP (mm)	Frost-Free Days	Drainage Class	Slope Length (meters)	Upslope Length (meters)
36.0	1,999.0	210						well		

A--0 to 8 centimeters (0.0 to 3.1 inches); pale brown (10YR 6/3) cobbly sandy loam, brown (10YR 4/3), moist; 58 percent sand; 21 percent clay; weak very fine granular structure; soft, very friable, moderately sticky, moderately plastic; common very fine roots and common medium roots and common fine roots and common coarse roots; common very fine interstitial pores; 2 percent clay bridges; 5 percent nonflat indurated 2 to 20-millimeter Mixed rock fragments and 5 percent nonflat indurated 75 to 250-millimeter Mixed rock fragments and 5 percent nonflat indurated 20 to 75-millimeter Mixed rock fragments; slight effervescence; slightly alkaline, pH 7.4; clear smooth boundary. Lab sample # 18N06691

Bk1--8 to 32 centimeters (3.1 to 12.6 inches); brown (10YR 5/3) loam, brown (10YR 4/3), moist; 40 percent sand; 26 percent clay; weak fine platy structure; slightly hard, friable, moderately sticky, moderately plastic; common very fine roots and common fine roots; common very fine interstitial pores; 6 percent clay bridges; 3 percent nonflat indurated 20 to 75-millimeter Mixed rock fragments and 4 percent nonflat indurated 2 to 20-millimeter Mixed rock fragments; strong effervescence; slightly alkaline, pH 7.6; gradual wavy boundary. Lab sample # 18N06692

Bk2--32 to 51 centimeters (12.6 to 20.1 inches); pale yellow (2.5Y 7/3) loam, light olive brown (2.5Y 5/3), moist; 40 percent sand; 25 percent clay; moderate coarse platy structure; moderately hard, firm, moderately sticky, moderately plastic; common very fine roots; 12 percent clay bridges; 3 percent nonflat indurated 2 to 20-millimeter Mixed rock fragments; violent effervescence; slightly alkaline, pH 7.8; gradual wavy boundary. Lab sample # 18N06693

Bk3--51 to 66 centimeters (20.1 to 26.0 inches); pale yellow (2.5Y 7/3) loam, light olive brown (2.5Y 5/3), moist; 45 percent sand; 23 percent clay; moderate medium platy structure; moderately hard, firm, moderately sticky, moderately plastic; common very fine roots; 10 percent clay bridges; 2 percent nonflat indurated 20 to 75-millimeter Mixed rock fragments and 3 percent nonflat indurated 2 to 20-millimeter Mixed rock fragments; very slight effervescence; slightly alkaline, pH 7.6; gradual wavy boundary. Lab sample # 18N06694

CBk--66 to 104 centimeters (26.0 to 40.9 inches); light olive brown (2.5Y 5/3) loam, olive brown (2.5Y 4/3), moist; 45 percent sand; 22 percent clay; massive; moderately hard, firm, moderately sticky, moderately plastic; common very fine roots; 10 percent nonflat indurated 20 to 75-millimeter Mixed rock fragments; very slight effervescence; slightly alkaline, pH 7.4. Lab sample # 18N06695

PEDON DESCRIPTION -- NEON Site YELL

Print Date: Apr 5 2019
Description Date: Aug 31 2018
Describer: Chris Fabian
NEON Plot ID: YELL_025
Site ID: S2018WY029025

Pedon ID: S2018WY029025
Site Note:
Pedon Note:
Lab Source ID: KSSL
Lab Pedon #: 18N2850
Soil Name as Described/Sampled: snd
Classification: Fine-loamy, mixed, superactive Ustic Argicryolls

Soil Name as Correlated:

Classification:
Pedon Type:
Pedon Purpose: soil survey inventory
Taxon Kind: series
Associated Soils:
Physiographic Division:
Physiographic Province:

Physiographic Section:

State Physiographic Area:

Local Physiographic Area:
Geomorphic Setting: on nose slope of ls mountains
on nose slope of lf hill
Upslope Shape: linear
Cross Slope Shape: convex
Particle Size Control Section:
Description origin: Pedon PC 6.3
Diagnostic Features: ? to ? cm.

Country: United States
State: Wyoming
County: Park
MLRA: 43B -- Central Rocky Mountains
Soil Survey Area: WY665 -- Yellowstone National Park, Wyoming-Montana-Idaho
Map Unit:
Pit Location:
Quad Name:
Std Latitude: 44.9663500
Std Longitude: -110.5034000

Latitude: 44 degrees 57 minutes 58.86 seconds north
Longitude: 110 degrees 30 minutes 12.24 seconds west
Datum: WGS84
UTM Zone: 12
UTM Easting: 539163 meters
UTM Northing: 4979332 meters

Primary Earth Cover: Shrub cover
Secondary Earth Cover: Other grass/herbaceous cover
Existing Vegetation: bluebunch wheatgrass, buckwheat, Idaho fescue, Junegrass, milkvetch, mountain big sagebrush, phlox, rubber rabbitbrush, Sandberg bluegrass
Parent Material: subglacial till over residuum weathered from rhyolite
Bedrock Kind:
Bedrock Depth:
Bedrock Hardness:
Bedrock Fracture Interval:
Surface Fragments:
Description database: KSSL

Cont. Site ID: S2018WY029025 **Pedon ID:** S2018WY029025

Slope (%)	Elevation (meters)	Aspect (deg)	MAAT (C)	MSAT (C)	MWAT (C)	MAP (mm)	Frost-Free Days	Drainage Class	Slope Length (meters)	Upslope Length (meters)
5.0	2,032.0	170						well		

A--0 to 4 centimeters (0.0 to 1.6 inches); very dark brown (10YR 2/2) sandy clay loam, grayish brown (10YR 5/2), dry; 55 percent sand; 24 percent clay; weak fine granular structure; soft; many very fine roots and common medium roots and common fine roots; 7 percent nonflat indurated 2 to 20-millimeter unspecified fragments; noneffervescent; clear smooth boundary. Lab sample # 18N06696

BAt1--4 to 20 centimeters (1.6 to 7.9 inches); dark brown (10YR 3/3) clay loam, brown (10YR 4/3), dry; 42 percent sand; 32 percent clay; weak medium subangular blocky, and moderate fine granular structure; hard; common very fine roots and common fine roots; 5 percent clay films and 25 percent clay bridges; 3 percent nonflat indurated 2 to 20-millimeter unspecified fragments; noneffervescent; clear wavy boundary. Lab sample # 18N06697

BAt2--20 to 37 centimeters (7.9 to 14.6 inches); dark brown (10YR 3/3) clay loam, brown (10YR 4/3), dry; 40 percent sand; 28 percent clay; moderate fine subangular blocky structure; hard; common very fine roots and common medium roots and common fine roots; 25 percent clay bridges; 1 percent nonflat indurated 20 to 75-millimeter unspecified fragments and 2 percent nonflat indurated 2 to 20-millimeter unspecified fragments; noneffervescent; gradual wavy boundary. Lab sample # 18N06698

C--37 to 57 centimeters (14.6 to 22.4 inches); olive brown (2.5Y 4/3) clay loam, weak red (2.5YR 4/2), dry; 40 percent sand; 29 percent clay; massive; hard; common very fine roots throughout; 45 percent carbonate coats; 1 percent nonflat subangular weakly cemented 20 to 75-millimeter unspecified fragments and 5 percent nonflat subrounded indurated 75 to 250-millimeter unspecified fragments and 8 percent nonflat subangular weakly cemented 2 to 20-millimeter unspecified fragments; slight effervescence; gradual wavy boundary. Lab sample # 18N06699

Cr--57 to 75 centimeters (22.4 to 29.5 inches); bedrock; massive; hard; .

PEDON DESCRIPTION -- NEON Site YELL

Print Date: Apr 5 2019
Description Date: Aug 10 2018
Describer: Chris Fabian
NEON Plot ID: YELL_029
Site ID: S2018WY029029

Pedon ID: S2018WY029029
Site Note:
Pedon Note:
Lab Source ID: KSSL
Lab Pedon #: 18N2851
Soil Name as Described/Sampled: Shadow
Classification: Loamy-skeletal, mixed, superactive Ustic Haplocryepts

Soil Name as Correlated:

Classification:
Pedon Type:
Pedon Purpose: soil survey inventory
Taxon Kind: series
Associated Soils:
Physiographic Division:
Physiographic Province:
Physiographic Section:

State Physiographic Area:
Local Physiographic Area:
Geomorphic Setting: on shoulder of side slope of ls mountains on shoulder of side slope of lf hillslope
Upslope Shape: linear
Cross Slope Shape: convex
Particle Size Control Section:
Description origin: Pedon PC 6.3
Diagnostic Features: ? to ? cm.

Country: United States
State: Wyoming
County: Park
MLRA: 43B -- Central Rocky Mountains
Soil Survey Area: WY665 -- Yellowstone National Park, Wyoming-Montana-Idaho
Map Unit:
Pit Location:
Quad Name:
Std Latitude: 44.9398800
Std Longitude: -110.6414900

Latitude: 44 degrees 56 minutes 23.57 seconds north
Longitude: 110 degrees 38 minutes 29.36 seconds west
Datum: WGS84
UTM Zone: 12
UTM Easting: 528286 meters
UTM Northing: 4976334 meters

Primary Earth Cover: Tree cover
Secondary Earth Cover: Other shrub cover
Existing Vegetation: aster, currant, Douglas-fir, fireweed, fragrant bedstraw, goldenrod, lodgepole pine, pinegrass, sagebrush rockcress, sweetcicely, vetch, Virginia strawberry, White Mountain sedge, white spirea
Parent Material: colluvium derived from tuff
Bedrock Kind:
Bedrock Depth:
Bedrock Hardness:
Bedrock Fracture Interval:
Surface Fragments:
Description database: KSSL

Cont. Site ID: S2018WY029029 **Pedon ID:** S2018WY029029

Slope (%)	Elevation (meters)	Aspect (deg)	MAAT (C)	MSAT (C)	MWAT (C)	MAP (mm)	Frost-Free Days	Drainage Class	Slope Length (meters)	Upslope Length (meters)
45.0	2,032.0	0						well		

A--0 to 5 centimeters (0.0 to 2.0 inches); dark grayish brown (10YR 4/2) very gravelly sandy loam, light brownish gray (10YR 6/2), dry; 55 percent sand; 15 percent clay; weak medium subangular blocky, and weak fine granular structure; common very fine roots and common fine roots; 5 percent nonflat indurated 20 to 75-millimeter unspecified fragments and 45 percent nonflat indurated 2 to 20-millimeter unspecified fragments; moderately acid, pH 6.0; clear wavy boundary. Lab sample # 18N06700

Bw1--5 to 14 centimeters (2.0 to 5.5 inches); brown (10YR 4/3) extremely gravelly sandy loam, light brownish gray (10YR 6/2), dry; 62 percent sand; 18 percent clay; weak medium subangular blocky structure; common very fine roots and common medium roots and common fine roots and common coarse roots; many very fine dendritic tubular and common fine dendritic tubular pores; 8 percent nonflat indurated 20 to 75-millimeter unspecified fragments and 55 percent nonflat indurated 2 to 20-millimeter unspecified fragments; slightly acid, pH 6.2; gradual wavy boundary. Lab sample # 18N06701

Bw2--14 to 39 centimeters (5.5 to 15.4 inches); brown (10YR 4/3) extremely gravelly sandy loam, light brownish gray (10YR 6/2), dry; 65 percent sand; 16 percent clay; weak medium subangular blocky structure; common very fine roots and common very coarse roots and common medium roots and common fine roots; many coarse interstitial pores; 20 percent nonflat indurated 20 to 75-millimeter unspecified fragments and 45 percent nonflat indurated 2 to 20-millimeter unspecified fragments; slightly acid, pH 6.4; gradual wavy boundary. Lab sample # 18N06702

C--39 to 96 centimeters (15.4 to 37.8 inches); brown (10YR 4/3) extremely gravelly sandy loam, light brownish gray (10YR 6/2), dry; 65 percent sand; 13 percent clay; massive; many very fine roots and common medium roots and common fine roots; many coarse interstitial pores; 20 percent nonflat indurated 20 to 75-millimeter unspecified fragments and 50 percent nonflat indurated 2 to 20-millimeter unspecified fragments; strongly acid, pH 5.4. Lab sample # 18N06703