



U.S. Department of the Interior  
Bureau of Land Management

## Special Status Plant Species Report: March 2019 Lease Sale

Vernal Field Office, Vernal UT



Photo: Christine Cimiluca

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October 22, 2018

## Special Status Plant Species Report

### December 2018 Lease Sale

Species	Status	Potential Occurrence and Habitat Type	Parcels with Suitable or Occupied Habitat	Lease Stipulation or Notice Applied
<i>Aquilegia atwoodii</i> (Atwood columbine)	BLM Sensitive	Known only from Firewater Canyon tributary to Desolation Canyon.	None	NA
<i>Aquilegia scopulorum</i> var. <i>goodrichii</i> (Goodrich columbine)	BLM Sensitive	Semi-barrens of the Green River Formation, West Tavaputs Plateau.	None	NA
<i>Arabis vivariensis</i> / <i>Boechea fernaldiana</i> (park rockcress)	BLM Sensitive	Pinyon-juniper and mountain mahogany communities, often in sandy soil. Specimens seen are from Jones Hole and Dinosaur National Monument.	None	NA
<i>Astragalus equisolensis</i> (horseshoe milkvetch)	BLM Sensitive	Duchesne River Formation in sagebrush, shadscale, horsebrush and other mixed desert shrub communities. 4800-5200 ft.	None	NA
<i>Astragalus hamiltonii</i> (Hamilton milkvetch)	BLM Sensitive	Habitat includes eroding slopes of the Duchesne River, Wasatch, and less commonly Mowry Shale, Dakota, and other formations in desert shrub and pinyon-juniper plant communities from 5,500 to 6,740 ft.	260, 261, 262	UT-LN-49 (Utah Sensitive Species) UT-LN-51 (Special Status Plants: Not Federally Listed)
<i>Cleomella palmeriana</i> var. <i>goodrichii</i> (Rocky Mountain stickweed)	BLM Sensitive	Mixed desert shrub communities. Specimens seen are from the Morrison Formation near Island Park, Uintah County, Utah.	None	NA
<i>Cryptantha barnebyi</i> (Barneby's catseye)	BLM Sensitive	White semi-barren shale knolls of the Green River Formation in shadscale, rabbitbrush, sagebrush, and pinyon-juniper communities. 6000-7900 ft.	111, 131, 134, 135, 136	UT-LN-49 (Utah Sensitive Species) UT-LN-51 (Special Status Plants: Not Federally Listed)
<i>Cryptantha grahamii</i> (Graham's catseye)	BLM Sensitive	Green River Shale in mixed desert shrub, sagebrush, pinyon-juniper, and mountain brush communities. 5000-7400 ft.	087, 101, 102, 109, 111, 112, 132, 264, 266, 274	UT-LN-49 (Utah Sensitive Species) UT-LN-51 (Special Status Plants: Not Federally Listed)
<i>Erigeron untermannii</i> (Indian Canyon fleabane)	BLM Sensitive	Open, windswept, marly ridge tops with saline wildrye and on adjacent slopes with pinyon juniper, scattered limber pine, and Douglas-fir communities. Known from Lake Canyon east to Wild Horse Ridge, West Tavaputs Plateau.	None	NA
<i>Frasera ackermaniae</i> (Ackerman gentian)	BLM Sensitive	Narrow endemic known from south of Brush Creek and west of Highway 191 (Uintah County, UT) on semi-barrens of the Chinle Formation and less commonly on alluvium washed from the Chinle Formation at about 5800 feet.	None	NA

<i>Hesperidanthus argillaceus</i> (clay reed-mustard)	Threatened	On the lower Uinta and upper Green River formations in shadscale, Indian ricegrass, pygmy sagebrush, and other mixed desert shrub communities. 4800-5600 ft.	097, 100, 101, 109, 110, 264, 266, 268, 272	Endangered Species Act (ESA) Stipulation (in accordance with BLM Handbook 3120-1 Competitive Leases (P) (H3120)) T&E-05 (Listed Plant Species) T&E-20 (Clay reed-mustard [ <i>Hesperidanthus argillaceus</i> ])
<i>Hesperidanthus suffrutescens</i> (shrubby reed-mustard)	Endangered	Calcareous shale of the Green River formation in shadscale, pygmy sagebrush, mountain mahogany, juniper and mixed desert shrub communities. 5400-6000 ft.	087, 097, 100, 101, 102, 109, 110, 117, 264, 266, 268, 272, 276	Endangered Species Act (ESA) Stipulation (in accordance with BLM Handbook 3120-1 Competitive Leases (P) (H3120)) T&E-05 (Listed Plant Species) T&E-21 (Shrubby reed-mustard [ <i>Hesperidanthus suffrutescens</i> ])
<i>Hymenoxys lapidicola</i> (stone rubberweed)	BLM Sensitive	Pinyon-juniper and ponderosa pine-manzanita communities. Endemic, known only from Blue Mountain-Cliff Ridge and vicinity, on Weber Sandstone. Habitat is not present in the Project Area.	None	NA
<i>Lepidium barnebyanum</i> (Barneby ridge-cress)	Endangered	Pinyon-juniper communities on whitish, marly mudstone of the Uinta Formation. Endemic, known only from the vicinity of lower Indian Canyon within 2 – 4 miles south of Duchesne, Utah, West Tavaputs Plateau. Habitat is not present in the Project Area.	None	NA
<i>Lepidium huberi</i> (Huber pepperplant)	BLM Sensitive	Sand or silty sands derived from the Chinle formation, and on the Park City and Weber Sandstone formations in sagebrush, snowberry, mountain mahogany, ponderosa pine, Douglas fir, lodgepole pine, and spruce-fir communities. 7300-9700 ft. Habitat is not present in the Project Area.	None	NA
<i>Mentzelia goodrichii</i> (Goodrich blazingstar)	BLM Sensitive	Steep, white, marly calciferous shale outcrops of the Green River formation with scattered limber pine, pinyon pine, Douglas fir, mountain mahogany, and rabbitbrush. 6440 - 8800 ft. Habitat is not present in the Project Area.	None	NA
<i>Penstemon acaulis</i> var. <i>acaulis</i> (stemless beardtongue)	BLM Sensitive	Pinyon-juniper, black sagebrush, and Wyoming big sagebrush communities. Plants of Brown's Park and west of Flaming Gorge Reservoir to Phil Pico Mountain, Daggett	None	NA

		County, Utah. Habitat is not present in the Project Area.		
<i>Penstemon gibbensii</i> (Gibben beardtongue)	BLM Sensitive	White tuffaceous bluffs above the Green River in eastern Daggett County, Utah. Habitat is not present in the Project Area.	None	NA
<i>Penstemon goodrichii</i> (Lapoint beardtongue)	BLM Sensitive	Shadscale, sagebrush, and juniper communities in red and gray clays and sandy clays of the Duchesne River Formation. Endemic, known only from between Maeser and north to Tridell in Duchesne and Uintah counties. Habitat is not present in the Project Area.	260, 261, 262	UT-LN-49 (Utah Sensitive Species) UT-LN-51 (Special Status Plants: Not Federally Listed)
<i>Penstemon grahamii</i> (Graham's beardtongue)	BLM Sensitive, Conservation Agreement, Proposed	Semi-barren, white to tan shale and oil shale slopes, hills, and ridges of the Green River Formation in shadscale, Salina wildrye, and pinyon-juniper plant communities from 5,000 to 6,300 ft.	087 <sup>1</sup> , 100, 111 <sup>1,2</sup> , 112 <sup>1,2</sup> , 115 <sup>2</sup> , 117, 131 <sup>1,2</sup> , 132 <sup>1,2</sup> , 133 <sup>1,2</sup> , 134 <sup>1,2</sup> , 135 <sup>1,2</sup> , 136 <sup>1,2</sup> , 139 <sup>1,2</sup> , 162 <sup>1,2</sup> , 178 <sup>1</sup> , 211 <sup>1,2</sup> , 213 <sup>1,2</sup> , 214 <sup>1</sup> , 217 <sup>1,2</sup> , 218 <sup>1,2</sup> , 266, 273 <sup>2</sup>	UT-LN-49 (Utah Sensitive Species) UT-LN-51 (Special Status Plants: Not Federally Listed) UT-LN-90 (Graham beardtongue [ <i>Penstemon grahamii</i> ]) UT-LN-134 (Graham beardtongue [ <i>Penstemon grahamii</i> ] and White River beardtongue [ <i>Penstemon scariosus</i> var. <i>albifluvis</i> ] Conservation Areas) Endangered Species Act (ESA) Stipulation (in accordance with BLM Handbook 3120-1 Competitive Leases (P) (H3120)) T&E-05 (Listed Plant Species)
<i>Penstemon scariosus</i> var. <i>albifluvis</i> (White River beardtongue)	BLM Sensitive, Conservation Agreement, Proposed	Semi-barren, white to tan shale and oil shale slopes, hills, and ridges of the Green River Formation in shadscale, Salina wildrye, and pinyon-juniper plant communities from 5,000 to 6,800 feet elevation.	087 <sup>1</sup> , 100, 110, 111 <sup>1</sup> , 112 <sup>1</sup> , 115, 131 <sup>1</sup> , 132 <sup>1</sup> , 133 <sup>1</sup> , 134 <sup>1</sup> , 135 <sup>1</sup> , 136 <sup>1</sup> , 139 <sup>1</sup> , 162 <sup>1</sup> , 178 <sup>1,2</sup> , 211 <sup>1,2</sup> , 213 <sup>1,2</sup> , 214 <sup>1,2</sup> , 217 <sup>1,2</sup> , 218 <sup>1,2</sup> , 266, 274, 276, 298	UT-LN-49 (Utah Sensitive Species) UT-LN-51 (Special Status Plants: Not Federally Listed) UT-LN-134 (Graham beardtongue [ <i>Penstemon grahamii</i> ] and White River beardtongue [ <i>Penstemon scariosus</i> var. <i>albifluvis</i> ] Conservation Areas) Endangered Species Act (ESA) Stipulation (in accordance with BLM Handbook 3120-1 Competitive Leases (P) (H3120)) T&E-05 (Listed Plant Species)
<i>Phacelia argylensis</i> (Argyle Canyon phacelia)	BLM Sensitive	Wash bottoms in Green River shale in pinyon-juniper-serviceberry-Douglas-fir communities. Known only from	None	NA

		Argyle Canyon. Habitat is not present in the Project Area.		
<i>Sclerocactus brevispinus</i> (Pariette cactus)	Threatened	Pedimental gravels (desert pavement) over Uinta Formation within Pariette Draw, Castle Peak Draw, and the surrounding benches. Growing in association with shadscale and sagebrush. 4700-5200 ft.	087 <sup>3</sup> , 097	Endangered Species Act (ESA) Stipulation (in accordance with BLM Handbook 3120-1 Competitive Leases (P) (H3120)) T&E-05 (Listed Plant Species) T&E-12 (Pariette cactus [ <i>Sclerocactus brevispinus</i> ] and Uinta Basin hookless cactus [ <i>Sclerocactus wetlandicus</i> ])
<i>Sclerocactus wetlandicus</i> Uinta Basin hookless cactus)	Threatened	Typically gravelly terraces and benchlands. Also found in locations with desert pavement, shale outcrops, and mudstone deposits. 4500-6000ft.	087*, 097, 268	Endangered Species Act (ESA) Stipulation (in accordance with BLM Handbook 3120-1 Competitive Leases (P) (H3120)) T&E-05 (Listed Plant Species) T&E-12 (Pariette cactus [ <i>Sclerocactus brevispinus</i> ] and Uinta Basin hookless cactus [ <i>Sclerocactus wetlandicus</i> ])
<i>Spiranthes diluvialis</i> Ute ladies'- tresses	Threatened	Wet meadows, stream banks, abandoned oxbow meanders, marshes, and raised bogs. 4500-6850 ft.	066, 086, 087, 097, 100, 101, 102, 106, 107, 108, 109, 110, 111, 112, 115, 117, 122, 124, 127, 129, 130, 131, 132, 133, 134, 135, 136, 139, 141, 162, 165, 167, 169, 170, 171, 172, 173, 175, 176, 177, 178, 179, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 211, 212, 213, 214, 217, 218, 226, 227, 228, 229, 260, 261, 262, 264, 266, 268, 271, 272, 273, 274, 276, 278, 279, 295, 296, 298, 305, 309, 318, 319, 320, 321, 337, 356, 358, 359, 382, 384, UTU-78225	Species Act (ESA) Stipulation (in accordance with BLM Handbook 3120-1 Competitive Leases (P) (H3120)) T&E-05 (Listed Plant Species) T&E-22 (Ute ladies'-tresses [ <i>Spiranthes diluvialis</i> ])
<i>Thelesperma caespitosum</i> Green River greenthread	BLM Sensitive	White shale benches and windswept slopes of the Green River and Uinta formation with pinyon and mountain mahogany. 5900-8400 ft. Species has not been documented in Project Area.	None	NA
<i>Yucca sterilis</i> (sterile yucca)	BLM Sensitive	Known occurrences of the species are found growing in	100, 134. Sandy soils in all parcels.	UT-LN-49 (Utah Sensitive Species)

	<p>sandy soils. However, this species has not been extensively surveyed for nor is the range and exact habitat requirements fully understood. Therefore, at this time, any sandy soils within the proposed lease parcels have to be assumed to be potential habitat for the species. The parcels listed are known to contain suitable habitat for the species, based on documented populations.</p>	<p>UT-LN-51 (Special Status Plants: Not Federally Listed)</p>
<p><sup>1</sup>Parcels contain habitat designated as a Core Conservation Area for Graham's and / or White River beardtongue established in the 2014 Conservation Agreement and Strategy for Graham's Beardtongue [<i>Penstemon grahamii</i>] and White River Beardtongue [<i>P. scariosus</i> var. <i>albifluvis</i>]. Additional mitigation measures, including surface disturbance caps, would be applicable if the proposed parcels are leased and developed (SWCA 2014).</p> <p><sup>2</sup> Parcels contain proposed Critical Habitat for Graham's and / or White River beardtongue.</p> <p><sup>3</sup> Parcels contain habitat designated as Core habitat for Pariette cactus / Uinta Basin hookless cactus. Additional mitigation measures, including surface disturbance caps, would be applicable if the proposed parcels are leased and developed (USFWS 2014).</p>		

**References**

[SWCA 2014] SWCA Environmental Consultants (SWCA). 2014. Conservation Agreement and Strategy for Graham's Beardtongue (*Penstemon grahamii*) and White River Beardtongue (*Penstemon scariosus* var. *albifluvis*). July 22, 2014.

[USFWS 2014] United States Fish and Wildlife Service (USFWS. 2014). Utah Ecological Services Field Office, 2014. *Ecological Restoration Mitigation Calculation Guidelines for impacts to Sclerocactus wetlandicus and Sclerocactus brevispinus Habitat*. United States Department of the Interior, Fish and Wildlife Service, Utah Ecological Services Field Office, West Valley City, Utah.