APPENDIX E

Rocky Mountain / High Plateaus
Depressional and Slope Wetland Profiles

Introduction

The wetland profiles described in this booklet are based on HGM subclasses. The state is divided into three major Ecoregions – Great Basin (13), Rocky Mountain (19), and Colorado Plateau (20).

[The term "Rocky Mountain / High Plateaus" refers to all three Ecoregions that this appendix applies to – Wasatch and Uinta Mountains (19), Colorado Plateaus (20), and Southern Rockies (21).]

The subclasses in Rocky Mountain ecoregion are driven by the water regime and calcium concentration of water (determined through principal components factor analysis of reference standard sites in the entire class) and wetland class.

Water regime classes for depressions are as follows:

0 Ephemeral – surface water is present in some years for brief periods (<3 months)
1 Seasonal – surface water is present in most years for 3-6 months
2 Semi permanent – surface water is common to persistent in most years for 6-12 months
3 Permanent – surface water is continuously present in all years.

Water regime classes for slopes are as follows:

1 Seasonal slope - Average depth to water table > 20 inches
2 Persistent slope - Average depth to water table ≤ 20 inches

The classes of calcium concentration are as follows:

1 poor < 10 mg/l
2 rich > 10 mg/l

As a surrogate for calcium concentrations use water EC as follows:

1 poor ≤ 0 .15 dS
2 rich > 0.15 dS

Poor wetlands are generally not receiving any groundwater.

Hydrogeomorphic Depression and Slope Wetland Class Descriptions

Depressional wetlands are topographic depressions with closed contours. Water sources are precipitation, runoff and/or groundwater. Water flow vectors are toward the center of the depression. The dominant hydrodynamics are vertical. They may or may not have inlets and outlets.

Slope wetlands occur at points of surface changes, breaks in slope or stratigraphic changes. Groundwater and runoff are the primary water sources. Water flow is unidirectional (down slope/ gradient). Water may discharge to a stream, lake or depression.

Rocky Mountain Ecoregion

The Rocky Mountain Ecoregion in Utah includes the north-south trending Wasatch Range and High Plateaus and the Uinta Mountains, which are the longest east-west trending range in North America. In the Wasatch Mountains all peaks are below 12,000 ft. In the High Plateaus higher peaks are found but the tallest, Delano Peak reaches only 12,173 ft. Extensive meadows bordered by aspen are common. In highest peak in the Uinta Mountains is King Peak at 13,498 ft. Much of the backbone of the range is over 11,000 ft. Shallow tarn lakes and grassy meadows are common.

In the winter, snow enters the region as Pacific storms, primarily from the northwest. Summer precipitation, which nearly equals the winter amounts in some locations, results from thunderstorms. The average annual temperature

ranges from 35 to 45 F and varies with altitude and latitude. There is a zonation of vegetation, also controlled by altitude, latitude and exposure. The uppermost zone is alpine tundra noted by the absence of trees. Below is the subalpine zone usually dominated by Engelmann spruce and subalpine fir. Below this is the montane zone, which is characterized by ponderosa pine and Douglas fir. After fires in the subalpine and upper montane zones, forests are often replaced by aspen or lodgepole pine. Below the montane zone is the foothill / woodland zone. Many of these slopes have shrubs dominating which include mountain mahogany and several kinds of scrub oak. Unforested parks are common in the region and are often dominated by grasses. Some are covered by sagebrush and other shrubs, such as antelope bitterbrush.

Soils in the region correspond with the vegetation, ranging from mollisols and alfisols in the montane zone to aridisols in the foothill zone. Many steep slopes and glaciated sites are inceptisols.

Rocky Mountain Depressional Wetlands
Depressional wetland location and vegetation scores

Table 1- Depressional wetland location and vegetation scores

wetland site water class 1	East	North	reference score	VIBI	species richness	elevation
boulder mtn2	12,453,434	4,223,708	0.90	0.60	9.00	11,027
lilypad	12,607,252	4,510,503	1.00	1.00	14.00	9,662
lily lake2	12,505,242	4,503,271	0.93	1.00	19.00	9,955
lily lake1	12,505,242	4,503,271	0.93	1.00	19.00	9,955
summit park	12,604,864	4,515,924	0.95	1.00	16.00	9,823
cook pothole upper	12,452,860	4,226,131	0.90	0.80	14.00	10,570
sims pothole3	12,607,743	4,508,418	1.00	1.00	10.00	9,673
lily lake1a	12,505,242	4,503,271	0.93	1.00	19.00	9,955
sims pothole4	12,607,754	4,508,472	1.00	1.00	20.00	9,813
sims pothole1	12,606,846	4,509,428	0.93	1.00	11.00	9,880
sims pothole2	12,606,846	4,509,428	0.93	1.00	9.00	9,880
boulder mtn1	12,459,403	4,217,775	0.90	0.60	10.00	10,880
big park2	12,606,250	4,513,974	0.95	1.00	26.00	9,711
big park1	12,424,787	4,641,273	0.95	1.00	26.00	9,711
cook pothole lower	12,452,832	4,225,986	0.90	0.80	12.00	10,580
geyser pass	12,654,701	4,260,928	0.98	1.00	14.00	10,530
lake park1	12,624,009	4,515,699	0.95	1.00	11.00	9,178
midway pond	12,457,414	4,493,351	1.00	1.00	15.00	8,335
lake park2	12,624,009	4,515,699	0.95	1.00	15.00	9,178
um pothole3	12,446,632	4,284,659	0.93	1.00	8.00	9,881
mill city2	12,510,926	4,521,760	0.97	1.00	13.00	9,234
gibson lower	12,447,899	4,654,068	0.93	1.00	8.00	8,465
aquarius pothole	12,449,001	4,222,275	0.90	0.70	18.00	9,211

Table 1, continued

wetland site water class 2	East	North	reference score	VIBI	species richness	elevation
um pothole1	12,447,847	4,281,872	0.95	1.00	15.00	9,467
mill city1	12,511,528	4,521,825	0.97	1.00	17.00	9,236
um pothole2	12,447,727	4,282,347	0.90	1.00	15.00	9,515
um pothole4	12,447,702	4,281,251	0.95	1.00	12.00	9,413
dry lake2	12,419,382	4,602,043	0.95	1.00	15.00	5,645
dry lake	12,419,382	4,602,043	0.95	1.00	15.00	5,645
marsh2	12,550,916	4,533,159	1.00	1.00	14.00	9,400
scad valley	12,479,358	4,371,347	0.90	0.80	9.00	8,720
gibson upper	12,447,283	4,654,476	0.90	1.00	20.00	8,565
goldhollow beaver	12,511,326	4,520,580	0.93	0.70	22.00	9,116
marsh3	12,550,916	4,533,159	1.00	1.00	14.00	9,400
whitney rd pond	12,510,588	4,522,600	0.93	1.00	20.00	9,180
marsh1	12,550,916	4,533,159	1.00	1.00	14.00	9,400
miller flat	12,478,515	4,374,745	0.90	1.00	5.00	8,800
roadhollow pond	12,509,796	4,521,936	1.00	1.00	21.00	9,237
xmas ponds lower	12,516,387	4,519,697	0.95	1.00	24.00	8,603
goldhollow pond	12,511,011	4,520,246	1.00	1.00	16.00	9,177
xmas ponds lower2	12,516,387	4,519,697	0.95	1.00	24.00	8,603
soldier hollow ponds2	12,455,868	4,479,492	0.83	0.50	31.00	5,480
soldier hollow ponds	12,455,868	4,479,492	0.83	0.40	30.00	5,480
soldier hollow ponds3	12,455,868	4,479,492	0.83	0.50	30.00	5,480

Table 2 - Descriptive Statistics Rocky Mountain reference standard depressions

Descriptive Statistics of reference standard depressions by water chemistry class					
water chemistry subclass		Minimum	Maximum	Mean	Std. Deviation
1.00	species richness	10.00	26.00	16.3636	5.42720
	native species	1.00	1.00	1.0000	0.00000
	indicator	0.92	1.00	0.9845	0.02806
	total cover	0.63	0.89	0.7700	0.08614
	TDS water	6.00	78.00	26.6667	26.17250
	TSS water	2.00	170.00	41.0556	51.32522
	EC water	0.01	0.13	0.0345	0.04204
	pH water	5.70	7.20	6.6091	0.53377
	calcium water	2.40	10.70	5.0545	2.17732
	total nitrogen water	0.04	0.16	0.0578	0.04055
	phosphorus water	0.01	0.01	0.0100	0.00000
	lead water	0.03	0.03	0.0300	0.00000
	cadmium water	0.02	0.02	0.0200	0.00000
	pH soil	4.90	6.60	5.2091	0.54673
	EC soil	0.20	1.40	0.4091	0.35058
	total organic carbon	8.00	77.50	31.0045	18.72611
	soil	0.45	1.92	1.2489	0.60843
	cadmium soil	0.06	0.27	0.1344	0.06766
	lead soil	0.05	14.80	6.4433	5.49594

Descriptive Statistics of reference standard depressions by water chemistry class					
water chemistry subclass		Minimum	Maximum	Mean	Std. Deviation
2.00	species richness	12.00	24.00	16.7500	4.02549
	native species	1.00	1.00	1.0000	0.00000
	indicator	0.88	1.00	0.9767	0.03601
	total cover	0.61	0.82	0.7200	0.06481
	TDS water	120.00	2,040.00	642.0909	675.65590
	TSS water	6.70	353.00	156.7833	136.41467
	EC water	0.20	3.40	1.0458	1.06979
	pH water	6.40	7.80	7.1075	0.47024
	calcium water	14.20	52.10	35.5417	13.20933
	total nitrogen water	0.03	0.81	0.1883	0.30740
	phosphorus water	0.01	0.94	0.2100	0.36381
	lead water	0.03	0.03	0.0300	0.00000
	cadmium water	0.02	0.02	0.0200	0.00000
	pH soil	5.60	7.30	6.4083	0.49028
	EC soil	0.30	3.00	0.8500	0.75739
	total organic carbon	1.71	43.30	17.1425	14.65297
	soil	0.15	2.23	1.0130	0.87918
	cadmium soil	0.02	0.24	0.1020	0.06391
	lead soil	0.69	13.10	5.9360	4.01405

Table 3 Dominant vegetation for reference depressions by water class

Wetland site	Species 1	Cover 1	Species 2	Cover 2	Species 3	Cover 3	Species 4	Cover 4	Species 5	Cover 5
Water class 2										
lily pad	carlas	0.17	carros	0.11	carlim	0.11	carcan	0.05	calcan	0.04
summit park	caraqu	0.43	carros	0.13	callep	0.06	calcan	0.03	carcan	0.02
sims pothole3	carves	0.66	calcan	0.05	eriper	0.01	carcan	0.01	jundru	0.01
sims pothole4	carcan	0.16	caraqu	0.13	carros	0.08	glybor	0.05	carves	0.05
big park2	carlim	0.22	carcan	0.10	callep	0.10	caraqu	0.04	carmur	0.03
big park1	carros	0.21	carlim	0.21	caraqu	0.19	carcan	0.08	callep	0.03
geyser pass	carros	0.53	caraqu	0.30	carebe	0.02	descae	0.02		
lake park1	carros	0.55	carcan	0.04	calneg	0.01	galbif	0.01	caraqu	0.01
midway pond	elepal	0.33	carves	0.25	spamin	0.12	glybor	0.04	sagcun	0.02
lake park2	moss	0.27	caraqu	0.19	carlas	0.19	callep	0.10	elepal	0.05
mill city2	carves	0.40	spamin	0.19	ransce	0.08	eleaci	0.08	carros	0.07
Water class 2										
um pothole1	elepal	0.26	carves	0.19	aloaeq	0.06	siusua	0.06	carpac	0.03
mill city1	carros	0.23	aloaeq	0.22	salwol	0.12		0.05	elepal	0.02
um pothole4	elepal	0.29	eleaci	0.14	aloaeg	0.09	siusua	0.07	ranaqu	0.03
dry lake2	elepal	0.33	sciacu	0.12	alipla	0.10	ranaqu	0.03	sagcun	0.01
dry lake	elepal	0.40	sciacu	0.10	ranaqu	0.10	alipla	0.03	sagcun	0.01
marsh2	caraqu	0.40	carros	0.18	calneg	0.06	carval	0.06	elepal	0.01
marsh3	caraqu	0.32	carros	0.30	carsim	0.08	moss	0.04	carpau	0.01
marsh1	caraqu	0.44	carros	0.17	moss	0.16	elepal	0.02	sweper	0.01
roadhollow pd	carros	0.21	carmic	0.17	elepal	0.12	geumac	0.10	salgey	0.10
Wetland site	Species 1	Cover 1	Species 2	Cover 2	Species 3	Cover 3	Species 4	Cover 4	Species 5	Cover 5
xmas ponds low	caraqu	0.60	carros	0.25	carneb	0.05				
goldhollow pd	carros	0.37	elepal	0.08	aloaeq	0.06	geumac	0.03	salwol	0.02
xmas ponds low2	caraqu	0.60	carros	0.25	carneb	0.05				

Rocky Mountain Depressional wetland species for reference standard sites

Sedges/Rushes
Carex aquatilis / water sedge
Carex aurea / golden sedge
Carex canenscens / pale sedge
Carex eleocharis / narrowleaf sedge
Carex ebena / ebony sedge
Carex illota / sheep sedge
Carex lanuginosa/ woolly sedge
Carex lasiocarpa / slender sedge
Carex limosa/ mud sedge
Carex microptera / small wing sedge
Carex muricata / boreal sedge
Carex nebrascensis/ Nebraska sedge
Carex pachystachya / Chamisso's sedge
Carex paupercula / poor sedge
Carex rostrata or C. utriculata / beaked sedge
Carex saxatilis / russet sedge
Carex simulata / short-beaked or lookalike sedge
Carex vescaria / blister sedge
Juncus arcticus / wiregrass
Juncus drummondii / Drummond's rush
Juncus longistylis / longstyle spikerush
Juncus nevadensis / Nevada spikerush
Eleocharis palustris / common spikerush
Eleocharis rostellata / Torrey's spikerush
Eleocharis acicularis / slender spikerush
Scirpus acutus / hardstem bulrush

Graminoids
Agrostis scabra / ticklegrass
Alopecurus aequalis / shortawn foxtail
Bromus ciliatus / fringed brome
Calamagrostis Canadensis / bluejoint reedgrass
Calamagrostis neglecta or C. inexpansa / slimstem or northern reedgrass
Danthonia intermedia /timber oatgrass
Deschampsia caespitosa / tufted hairgrass
Glyceria borealis / northern mannagrass
Glyceria stricta / fowl mannagrass
Hierochloe odorata / sweetgrass or vanilla grass
Phleum alpinus / alpine timothy
Poa leptocoma or P. reflexa / bog bluegrass or nodding bluegrass
Trisetum wolfii / Wolf's trisetum

Shrubs
Salix wolfii / planifolia/ geyeriana / boothii – Wolf's, planeleaf, Geyer's, Booth's willow
Potentilla fruticosa / palustris - shrubby cinquefoil / marsh cinquefoil
Vaccinium uliginosum v. occidentale - western huckleberry

Forbs
Aquilegia spp. / columbine
Aconitum columbianum / monkshood
Aster integrifolius / thickstem aster
Antennaria corymbosa / Plains pussytoes
Achillea millefolium / milfoil yarrow
Anemone patens / Pasque flower, wild crocus
Alisma plantago-aquatica / water plantain
Caltha leptosepala / marsh marigold
Dowingia laeta / downingia
Equisteum arvense / meadow horsetail
Epilobium halleanum / Hall's willowherb
Epilobium hornemannii / Hornemann's willowherb
Erigeron speciosus / Oregon daisy
Erigeron peregrinus / strange daisy
Fragaria vesca / stravling strawberry
Geum macrophyllum / large-leaved avens
Galium bifolium / twinleaf bedstraw
Gentiana affinis / algida / calycosa / prostrate – Rocky Mountain, Arctic, explorer, moss gentian
Helenium hoopesii / orange sneezeweed
Mentha arvensis / field mint
Marsilea vestita / pepperwort, water clover
Mimulus guttatus / common monkey flower
Nuphar polysepalum / yellow pondlily, spatterdock
Polygonum amphibium / water smartweed
Polemonium caeruleum / blue or western Jacob's ladder
Polygonum viviparum / alpine bistort
Pedicularis groenlandica / elephanthead
Polygonum bistortoides / American bistort
Potamogeton gramineus/nodosus/natans / grass, longleaf, floating pondweed
Pedicularis racemosa / leafy loosewort
Porterella carnuloosa / fleshy porterella
Rorippa carvipes / common yellowcress
Ranunculus sceleratus/ aquatilis / blister buttercup, water crowsfoot
Sium suave / hemlock water parsnip
Swertia perennis / felwort
Sedum rhodanthum / pink stonecrop
Sagittaria cunenata / arrowleaf
Sparganium spp. / bur-reed
Stellaria calycantha, longifolia, obtuse, umbellate / calyx, long-leaved, blunt, umbellate starwort
Senecio spp - grounsel
Utricularis vulgaris – common bladderwort
Vicia Americana – American vetch
Veronica wormskjoldii, peregrine, americana – speedwell

Lilypad Lake, south slope Uintas, Ashley NF

Scad Valley pond, Wasatch Plateau, Manti-LaSal NF

Dry Lake, Sardine Canyon Wasatch Cache NF

Whitney Road pond, Northwest slope Uinta Mountains

Mill City road pond, northwest slope Uinta Mountains

Sims pothole3, southeast slope Uinta Mountains

UM pothole3, Fishlake Plateau

Miller Flat pothole – Wasatch Plateau

Boulder Mountain pothole, Aquarius Plateau – not a reference standard site

Gold Hill pond, North slope Uintas Wasatch-Cache NF

Lily Lake, South slope Uintas, Wasatch-Cache NF

Lower Gibson Lake, Northern Wasatch-Cache NF

Marsh pond, north slope Uintas, Wasatch-Cache NF

Rocky Mountain Slope Wetlands

Table 4 - Slope wetland locations and vegetation scores for reference standard sites

NAME	EASTING	NORTHING	Elevation ft	VIBI
Reader Creek 1	12,581,945	4,513,034	10,500	1.00
Reader Creek 3	12,581,097	4,513,300	10,560	1.00
China Meadows	12,550,352	4,531,066	9400	0.96
Reader Creek 4	12,581,297	4,513,316	10,600	1.00
Christmas Meadows 2	12,516,494	4,519,605	8,775	0.92
Smith's Fork	12,550,707	4,532,269	9,340	0.96
Christmas Meadows 1	12,516,494	4,519,605	8,770	0.93
East Marsh Meadows	12,550,916	4,533,159	9,375	0.96

NAME	Species1	COVER1	Species2	COVER2	Species3	COVER3	Species4	COVER4	Species5	COVER5
Reader Creek 1	caraqu	0.40	carlim	0.20	salpla	0.11	elepau	0.04	eripol	0.03
Reader Creek 3	caraqu	0.47	salpla	0.32	moss	0.34	carlim	0.03	descae	0.02
China Meadows	caraqu	0.45	carros	0.20	salpla	0.11	eleros	0.05	callep	0.02
Reader Creek 4	caraqu	0.16	carlim	0.15	salpla	0.14	calcan	0.08	descae	0.03
Christmas Meadows 2	callep	0.30	caraqu	0.24	descae	0.14	carbux	0.09	salwol	0.08
Smith's Fork	carros	0.48	carsax	0.14	salwol	0.10	descae	0.08	carlen	0.03
Christmas Meadows 1	caraqu	0.41	salwol	0.21	carros	0.17	fraves	0.04	carneb	0.03
East Marsh Meadows	caraqu	0.32	carros	0.30	carsim	0.08	salwol	0.04	moss	0.04

Table 5 - Descriptive Statistics for reference standard slope wetlands by water class

water class		Minimum	Maximum	Mean	Std. Deviation
1.00	Shrub cover	0.00	0.23	0.0767	0.08426
	Shrub height	0.00	30.00	17.5556	11.83333
	Herb cover	0.60	0.94	0.8200	0.12359
	Herb height	11.00	31.00	17.8889	6.45067
	Moss cover	0.02	0.11	0.0611	0.03855
	Total cover	0.82	1.10	0.9567	0.07416
	Obligate	0.60	1.00	0.8444	0.16667
	pH soil	4.80	6.20	5.1778	0.49441
	total organic carbon soil	2.00	73.00	25.0000	20.91650
	EC soil	0.20	0.70	0.3333	0.17500
	Zinc soil	0.46	10.90	2.3563	3.49025
	pH water	5.80	6.90	6.3556	0.37454
	EC water	0.01	0.09	0.0400	0.02828
	depth to water table	2.00	14.40	5.6222	3.99086
2.00	Shrub cover	0.04	0.26	0.1333	0.11372
	Shrub height	19.00	30.00	23.0000	6.08276
	Herb cover	0.62	0.85	0.7233	0.11676
	Herb height	14.00	23.00	18.3333	4.50925
	Moss cover	0.01	0.16	0.0700	0.07937
	Total cover	0.82	1.00	0.9267	0.09452
	Obligate	0.80	1.00	0.8667	0.11547
	pH soil	6.20	6.70	6.4667	0.25166
	total organic carbon soil	6.00	40.00	20.0000	17.77639
	EC soil	0.60	0.80	0.7333	0.11547
	Zinc soil	1.60	5.70	3.8667	2.08407
	pH water	6.70	7.80	7.2333	0.55076
	EC water	0.22	0.45	0.3267	0.11590
	depth to water table	0.50	11.30	7.5333	6.09617

Rocky Mountain Slope Wetland species

Sedges/Rushes
Carex aquatilis / water sedge
Carex aurea / golden sedge
Carex buxbaumii / Buxbaum's sedge
Carex canenscens / pale sedge
Carex eleocharis / narrowleaf sedge
Carex ebena / ebony sedge
Carex illota / sheep sedge
Carex lanuginosa / woolly sedge
Carex lasiocarpa / slender sedge
Carex lenticularis /lens sedge
Carex limosa / mud sedge
Carex microptera / small wing sedge
Carex muricata / boreal sedge
Carex nebrascensis / Nebraska sedge
Carex pachystachya / Chamisso's sedge
Carex paupercula / poor sedge
Carex rostrata or C. utricularia / beaked sedge
Carex saxatilis / russet sedge
Carex simulata / short beaked or lookalike sedge
Carex vescaria / blister sedge
Eleocharis palustris / common spikerush
Eleocharis pauciflora / few flowered spikerush
Eleocharis rostellata / Torrey's spikerush
Eleocharis acicularis / slender spikerush
Eriophorum polystachion / cottongrass
Juncus arcticus / wiregrass
Juncus bufonius / toad rush
Juncus drummondii / Drummond's rush
Juncus ensifolius / swordleaf rush
Jincus filiformis / filiform rush
Juncus halli / Hall's rush
Juncus longistylis / longstyle rush
Juncus nevadensis / Nevada rush
Luzula campestris / hairy wood rush
Luzula spicata / spike woodrush
Scirpus acutus / hardstem bulrush

Graminoids
Agrostis scabra / ticklegrass
Calamagrostis canadensis / bluejoint reedgrass
Calamagrostis neglecta or inexpansa / slim stem or northern reedgrass
Danthonia intermedia / timber oatgrass
Deschampsia caespitosa / tufted hairgrass
Hierochloe odorata / sweetgrass or vanilla grass
Hordeum brachyantherum / meadow barley
Phleum alpinus / alpine timothy
Trisetum wolfii / Wolf's trisetum

Shrubs
Betula glandulosa / glandular or bog birch
Potentilla fruticosa / palustris /- shrubby cinquefoil / marsh cinquefoil
Salix wolfii / planifolia/ geyeriana / boothii/ drummondii – Wolf's/planeleaf/ Geyer's / Booth's willow
Vaccinium myrtillus / scoparium – dwarf bilberry / grouseberry

Forbs
Antennaria corymbosa, umbrinella / Plains pussytoes, mountain pussytoes
Achillea millefolium – milfoil yarrow
Anemone patens – Pasque flower, wild crocus
Caltha leptosepala – marsh marigold
Equisteum arvense – meadow horsetail
Erigeron speciosus – strange daisy
Fragaria vesca – stravling strawberry
Geum aleppicum – erect avens
Geum macrophyllum – large-leaved avens
Galium bifolium – twinleaf bedstraw
Gentiana algida / calycosa / prostrate – Artic, explorer, moss gentian
Geranium richardsonii – Richardson's geranium
Habenaria dilata, sparsiflora, saccata – white, Watson's, slender bog orchid
Ligusticum tenuifolium – small or slenderleaf ligusticum
Mentha arvensis – field mint
Mertensia arizonica, ciliate – tall, mountain bulebells
Polygonum amphibium – water smartweed
Polygonum viviparum – alpine bistort
Pedicularis groenlandica – elephanthead
Polygonum bistortoides – American bistort
Potamogeton gramineus/nodosus/natans / grass, longleaf, floating pondweed
Potentilla gracilis, ovina, diversifolia – slender, sheep, wedgeleaf cinquefoil
Rorippa curvipes – yellow pondlily, spatterdock
Sparganium minimum – small bur-reed
Sedum rhodanthum – pink stonecrop
Senecio spp - groundsel
Sisyrinchium idahoense – Idaho blue-eyed grass
Swertia perennis - felwort
Thalictrum fendleri – Fendler's meadowrue
Veratrum californicum – false hellebore, skunk cabbage
Veronica wormskjoldii, peregrine, americana – speedwell

China Meadows, northwest slope Uintas, Wasatch-Cache NF

East Fork of Smith's Fork, northwest slope Uintas, Wasatch-Cache NF

Marsh pond slope, northwest slope Uintas, Wasatch-Cache NF

Upper Christmas Meadows, northwest slope Uintas, Wasatch-Cache NF

Lower Christmas Meadows, northwest slope Uintas, Wasatch-Cache NF

Reader Creek, patterned fen, southeast slope Uintas, Ashley NF

Gilbert Meadows, northwest slope Uintas, Wasatch-Cache NF

Reader Creek, southwest slope Uintas, Ashley NF