

## IDAHO RARE PLANT OBSERVATION REPORT 2010

Please fill in as many fields as possible, but don't worry if you have to leave blanks. Many fields contain check boxes (double click on box, and click 'checked'). E-mail completed form to [plant@idfg.idaho.gov](mailto:plant@idfg.idaho.gov)  
If you need to mail maps or other materials that can't be sent electronically, send them to Botany Data Manager, Idaho Department of Fish and Game, PO Box 25, 600 S. Walnut St., Boise, ID 83707.  
Thanks for contributing to rare plant conservation in Idaho!

Species: Lepidium papilliferum

Observer(s): Carpenter, Craig

Agency/Organization/Company: BLM

Address: 3948 Development Ave

E-mail: clcarpenter@blm.gov

Phone: 208-384-3332

Other knowledgeable individuals: \_\_\_\_\_

If this observation is part of a larger study or report, what is it the study/report? Incidental observation while doing LEPA Surveying.

Certainty of identification:  moderate  high  verified by Craig Carpenter

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Is this an addition or update of an existing occurrence?  yes  no  unsure

Element occurrence (EO) #, if known: 18

EO survey site name (e.g., a particular landmark or location): East Swan Falls Rd.

Directions (please be specific so population/subpopulations can be relocated years from now by others): All observed plants are in T1 NR 1W Sec 33. Go south on Swan Falls Road 6 miles from Kuna to Nicholson road and turn right, west, and drive another 2 miles. Turn left, south, just passed the field and drive on the dirt road for 1 mile, you will now be just passed the field. Now park and hike west along the fence approx. 164 meters to subpopulation 1. Subpopulation 2 is 79 meters further west of subpopulation 1 and subpopulation 3 is 39 meters west of subpopulation 2. Subpopulation 4 is approx. 41 meters west of subpopulation 3. Now return to your pickup and drive south for approx. 0.5 miles and you will be at a T intersection in the dirt road. Turn right, west, and drive approx. 0.2 miles and park your truck subpopulation 5 will be to your right, north, approx. 85 meter. Return to your vehicle and continue west less then 0.1 miles to the powerline road and turn right, Northwest, on to the road and continue on this road for 0.5 miles and then park the truck. Hike west approx. 185 meters to subpopulation 6.

Landowner(s):  BLM  USFS  private  other: \_\_\_\_\_

If all or part of population is on private land, has the landowner provided consent for the data to be exported?

Date of consent by private landowner, their contact info, and other pertinent comments: \_\_\_\_\_

General owner comments: \_\_\_\_\_

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If location data are **GPS data**:

Format of GPS data:  shapefile  digital file (.dbf, .xls, .txt, etc.)  GPS points in subpopulation section

Method used to collect GPS data:  GPS unit  estimated on a paper map  other: \_\_\_\_\_

GPS unit was held:  directly over the plant of interest  in the general vicinity of the rare plant

Do the GPS points mark the boundary of a plant group?  yes  no  unsure

Accuracy of GPS unit ( $\pm$  m): 5 Datum:  NAD27  NAD83  WGS84  unknown  
Coordinate system:  UTM zone 11  UTM zone 12  UTM zone unknown  Idaho Transverse Mercator  
 Decimal degrees, lat/long  state plane  township/range/section

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**Population Information** (for entire population; information on subpopulations goes on next page)

Population area (extent of all subpopulations): > 1 acre

Do you feel you mapped the full extent of the population?  yes  no  unsure

Is there more potential habitat in the area that hasn't been surveyed?  yes  no  unsure

Suggestions for other areas to survey: Area has been surveyed through BLM's survey of potential habitat by running 4 transects through each legal section. Future surveys may reveal additional occupied slickspots.

The survey was:  very thorough  fairly thorough  cursory  incidental observation

Collector/Collection #: \_\_\_\_\_ Herbarium: \_\_\_\_\_

Photo attached?  yes  no If photos are located elsewhere, where are they? \_\_\_\_\_

Monitoring or research needs for this population: \_\_\_\_\_

Management needs for this population: \_\_\_\_\_

Additional population comments: \_\_\_\_\_

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Native plant community within the population is:

- A. intact with zero to low non-native plant cover and/or minimal anthropogenic disturbance.
- B. intact with low to moderate non-native plant cover and/or low to moderate anthropogenic disturbance.
- C. partially intact with moderate to high non-native plant cover and/or mod. to high anthropogenic disturbance.
- D. almost gone with high non-native plant species cover and/or high anthropogenic disturbance.

Is this rank based on all known subpopulations?  yes  no  unsure

Additional comments on condition of the population: All plants, native and non-native were healthy. Bromus tectorum was the dominant non-native and Poa secunda is dominant native plant at time of survey. Other plants present; Artemisia tridentata ssp. wyomingensis (patchy), Krascheninnikovia lanata 'Hatch', Chrysothamnus viscidiflorus, Elymus elymoides, Vulpisa sp., Leymus cinereus, Achnatherum hymenoides, Agropyron cristatum, Psathyrostachys juncea, Ceratocephala testiculata, Salsola tragus, Sisymbrium altissimum, Pectocarya spp., Kochia prostrate, Erodium cicutarium, Chenopodiaceae spp., Marrubium vulgare, Machaeranthera canescens, Balsamorhiza hookeri, Penstemon speciosus, Sphaeralcea grossulariifolia, and Lepidium papiliferum.

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Landscape surrounding the population is:

- A. unfragmented, with ecological and hydrological processes intact.
- B. partially fragmented, with ecological and hydrological processes intact.
- C. moderately fragmented, with ecological and hydrological processes intact.
- D. fragmented, with many ecological and hydrological processes no longer intact.

Is this rank based on all known subpopulations?  yes  no  unsure

Additional comments on landscape surrounding the population: \_\_\_\_\_

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**Subpopulation Information** (copy this section as needed—one for each subpopulation)

Subpopulation #: 1 Date of Observation: 7/21/2014 Observer(s): Carpenter

Total number of individuals in subpopulation: 13  actual  minimum  estimated

What was counted?  genets  ramets  N/A (non-vascular etc.)  unknown

Phenology:

62 % seedling 38 % vegetative \_\_\_\_\_ % flowering \_\_\_\_\_ % fruiting \_\_\_\_\_ % dormant \_\_\_\_\_ % unknown

Subpopulation area: 0.1 acre Subpopulation vigor:  excellent  good  fair  poor  unknown

Do you feel you mapped the full extent of the subpopulation?  yes  no  unsure

Dominant species (existing): see above

Habitat type (potential plant community): A. tridentata ssp. wyomingensis, winterfat, and bunchgrasses community.

Associated native species: See above

Associated non-native species: See above

Look-alike species present: \_\_\_\_\_

General habitat (e.g., foothills, wetland, subalpine): sagebrush flats

Slope: 0 Aspect: \_\_\_\_\_ Toposition: \_\_\_\_\_

Minimum Elevation: \_\_\_\_\_ m or 2840 ft Maximum Elevation: \_\_\_\_\_ m or 2860 ft

Light regime: full sun Substrate/soil: sandy loam

Observed disturbances, such as land use, disease, predation, non-native species. Include severity (slight, moderate, serious, or extreme) and scope (>10%, 11-30%, 31-70%, 71-100% of subpopulation affected): badger mounds, fire

Factors that may be a threat in the future (include severity, scope, and imminency of threat, if known): grazing, fire, badgers

Intrinsic vulnerability of subpopulation:  high  moderate  none

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**Subpopulation Information** (copy this section as needed—one for each subpopulation)

Subpopulation #: 2 Date of Observation: 7/21/2014 Observer(s): Carpenter

Total number of individuals in subpopulation: 12  actual  minimum  estimated

What was counted?  genets  ramets  N/A (non-vascular etc.)  unknown

Phenology:

100 % seedling \_\_\_\_\_ % vegetative \_\_\_\_\_ % flowering \_\_\_\_\_ % fruiting \_\_\_\_\_ % dormant \_\_\_\_\_ % unknown

Subpopulation area: 0.1 acre Subpopulation vigor:  excellent  good  fair  poor  unknown

Do you feel you mapped the full extent of the subpopulation?  yes  no  unsure

Dominant species (existing): see above

Habitat type (potential plant community): A. tridentata ssp. wyomingensis, winterfat, and bunchgrasses community.

Associated native species: See above

Associated non-native species: See above

Look-alike species present: \_\_\_\_\_

General habitat (e.g., foothills, wetland, subalpine): sagebrush flats

Slope: 0 Aspect: \_\_\_\_\_ Toposition: \_\_\_\_\_

Minimum Elevation: \_\_\_\_\_ m or 2840 ft Maximum Elevation: \_\_\_\_\_ m or 2860 ft

Light regime: full sun Substrate/soil: sandy loam

Observed disturbances, such as land use, disease, predation, non-native species. Include severity (slight, moderate, serious, or extreme) and scope (>10%, 11-30%, 31-70%, 71-100% of subpopulation affected): badger mounds, fire

Factors that may be a threat in the future (include severity, scope, and imminency of threat, if known): grazing, fire, badgers

Intrinsic vulnerability of subpopulation:  high  moderate  none

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**Subpopulation Information** (copy this section as needed—one for each subpopulation)

Subpopulation #: 3 Date of Observation: 7/21/2014 Observer(s): Carpenter

Total number of individuals in subpopulation: 1  actual  minimum  estimated

What was counted?  genets  ramets  N/A (non-vascular etc.)  unknown

Phenology:

100 % seedling \_\_\_\_\_ % vegetative \_\_\_\_\_ % flowering \_\_\_\_\_ % fruiting \_\_\_\_\_ % dormant \_\_\_\_\_ % unknown

Subpopulation area: 0.1 acre Subpopulation vigor:  excellent  good  fair  poor  unknown

Do you feel you mapped the full extent of the subpopulation?  yes  no  unsure

Dominant species (existing): see above

Habitat type (potential plant community): A. tridentata ssp. wyomingensis, winterfat, and bunchgrasses community.

Associated native species: See above

Associated non-native species: See above

Look-alike species present: \_\_\_\_\_

General habitat (e.g., foothills, wetland, subalpine): sagebrush flats

Slope: 0 Aspect: \_\_\_\_\_ Toposition: \_\_\_\_\_

Minimum Elevation: \_\_\_\_\_ m or 2840 ft Maximum Elevation: \_\_\_\_\_ m or 2860 ft

Light regime: full sun Substrate/soil: sandy loam

Observed disturbances, such as land use, disease, predation, non-native species. Include severity (slight, moderate, serious, or extreme) and scope (>10%, 11-30%, 31-70%, 71-100% of subpopulation affected): badger mounds, fire

Factors that may be a threat in the future (include severity, scope, and imminency of threat, if known): grazing, fire, badgers

Intrinsic vulnerability of subpopulation:  high  moderate  none

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**Subpopulation Information** (copy this section as needed—one for each subpopulation)

Subpopulation #: 4 Date of Observation: 7/21/2014 Observer(s): Carpenter

Total number of individuals in subpopulation: 78  actual  minimum  estimated

What was counted?  genets  ramets  N/A (non-vascular etc.)  unknown

Phenology:

44 % seedling 56 % vegetative \_\_\_\_\_ % flowering \_\_\_\_\_ % fruiting \_\_\_\_\_ % dormant \_\_\_\_\_ % unknown

Subpopulation area: 0.1 acre Subpopulation vigor:  excellent  good  fair  poor  unknown

Do you feel you mapped the full extent of the subpopulation?  yes  no  unsure

Dominant species (existing): see above

Habitat type (potential plant community): A. tridentata ssp. wyomingensis, winterfat, and bunchgrasses community.

Associated native species: See above

Associated non-native species: See above

Look-alike species present: \_\_\_\_\_

General habitat (e.g., foothills, wetland, subalpine): sagebrush flats

Slope: 0 Aspect: \_\_\_\_\_ Toposition: \_\_\_\_\_

Minimum Elevation: \_\_\_\_\_ m or 2840 ft Maximum Elevation: \_\_\_\_\_ m or 2860 ft

Light regime: full sun Substrate/soil: sandy loam

Observed disturbances, such as land use, disease, predation, non-native species. Include severity (slight, moderate, serious, or extreme) and scope (>10%, 11-30%, 31-70%, 71-100% of subpopulation affected): badger mounds, fire

Factors that may be a threat in the future (include severity, scope, and imminency of threat, if known): grazing, fire, badgers

Intrinsic vulnerability of subpopulation:  high  moderate  none

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**Subpopulation Information** (copy this section as needed—one for each subpopulation)

Subpopulation #: 5 Date of Observation: 7/21/2014 Observer(s): Carpenter

Total number of individuals in subpopulation: 39  actual  minimum  estimated

What was counted?  genets  ramets  N/A (non-vascular etc.)  unknown

Phenology:

21 % seedling 79 % vegetative \_\_\_\_\_ % flowering \_\_\_\_\_ % fruiting \_\_\_\_\_ % dormant \_\_\_\_\_ % unknown

Subpopulation area: 0.1 acre Subpopulation vigor:  excellent  good  fair  poor  unknown

Do you feel you mapped the full extent of the subpopulation?  yes  no  unsure

Dominant species (existing): see above

Habitat type (potential plant community): A. tridentata ssp. wyomingensis, winterfat, and bunchgrasses community.

Associated native species: See above

Associated non-native species: See above

Look-alike species present: \_\_\_\_\_

General habitat (e.g., foothills, wetland, subalpine): sagebrush flats

Slope: 0 Aspect: \_\_\_\_\_ Toposition: \_\_\_\_\_

Minimum Elevation: \_\_\_\_\_ m or 2790 ft Maximum Elevation: \_\_\_\_\_ m or 2860 ft

Light regime: full sun Substrate/soil: sandy loam

Observed disturbances, such as land use, disease, predation, non-native species. Include severity (slight, moderate, serious, or extreme) and scope (>10%, 11-30%, 31-70%, 71-100% of subpopulation affected): badger mounds, fire

Factors that may be a threat in the future (include severity, scope, and imminency of threat, if known): grazing, fire, badgers

Intrinsic vulnerability of subpopulation:  high  moderate  none

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**Subpopulation Information** (copy this section as needed—one for each subpopulation)

Subpopulation #: 6 Date of Observation: 7/21/2014 Observer(s): Carpenter

Total number of individuals in subpopulation: 151  actual  minimum  estimated

What was counted?  genets  ramets  N/A (non-vascular etc.)  unknown

Phenology:

83 % seedling 17 % vegetative \_\_\_\_\_ % flowering \_\_\_\_\_ % fruiting \_\_\_\_\_ % dormant \_\_\_\_\_ % unknown

Subpopulation area: 0.1 acre Subpopulation vigor:  excellent  good  fair  poor  unknown

Do you feel you mapped the full extent of the subpopulation?  yes  no  unsure

Dominant species (existing): see above

Habitat type (potential plant community): A. tridentata ssp. wyomingensis, winterfat, and bunchgrasses community.

Associated native species: See above

Associated non-native species: See above

Look-alike species present: \_\_\_\_\_

General habitat (e.g., foothills, wetland, subalpine): sagebrush flats

Slope: 0 Aspect: \_\_\_\_\_ Toposition: \_\_\_\_\_

Minimum Elevation: \_\_\_\_\_ m or 2820 ft Maximum Elevation: \_\_\_\_\_ m or 2840 ft

Light regime: full sun Substrate/soil: sandy loam

Observed disturbances, such as land use, disease, predation, non-native species. Include severity (slight, moderate, serious, or extreme) and scope (>10%, 11-30%, 31-70%, 71-100% of subpopulation affected): badger mounds, fire

Factors that may be a threat in the future (include severity, scope, and imminency of threat, if known): grazing, fire, badgers

Intrinsic vulnerability of subpopulation:  high  moderate  none

Subpopulation 1



Facing East



Facing South



Facing West



Facing North



Close-up

Subpopulation 2



Facing East



Facing South



Facing West



Facing North

Subpopulation 4



Facing East



Facing South



Facing West



Facing North



Close-up



Close-up



Close-up



Close-up