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MTNHP SITE AND COMMUNITY
SURVEY MANUAL
version 91B

Montana Natural Heritage Program
1515 East 6th Ave., Helena, MT 59620

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MTNHP SITE AND COMMUNITY FORM MANUAL

Montana Natural Heritage Program
1515 East 6th Ave., Helena, MT 59620

This manual is for use in completing the 5/27/91 versions of the Site Survey and Community Survey forms. Only those fields potentially needing greater clarification are included. Definitions for many of the fields on the Community Survey Form are taken directly from the USDA Forest Service's ECODATA General Field and Plant Composition data forms (developed at the Forest Service Regional Office, Missoula, MT). See last two pages of manual for copies of survey forms.

SITE SURVEY FORM INSTRUCTIONS

IDENTIFICATION AND LOCATION

MANUAL

Enter the version number of the MTNHP survey manual used in completing this form (i.e., "91B" for this manual).

SITENAME

Each site should be assigned a unique name. A few standards in naming follow:

1. do not use element names in the site name
2. use local place names when available
3. use names of features on topographic maps when local names do not exist

DIRECTIONS

Directions to Site - enter precise directions to the site using a readily locatable landmark (e.g., a city, a major highway, etc.) as the starting point on a state or local road map. Use clear complete sentences that will be understandable to someone who is unfamiliar with the area, needs to get to the site, and has only your directions to follow. Cite distances as closely as possible to the 1/10 of a mile, use compass directions (N, S, E, and W), and be sure to specify the best access to the site, such as where to park or which trail to use.

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1. anthropogenic forces that threaten the existence of one or more element occurrences at the site
2. the inability to undertake a management action in the absence of a protection action

MANAGEMENT URGENCY

A management action may include biological management (e.g., prescribed burning, removal of exotics) or people and site management (e.g., building barriers to prevent ORV use, rerouting trails, patrolling for collectors, hunters, or trespassers). Management action does not include legal, political, or administrative measures taken to protect the site.

STEWARDSHIP

LAND USE COMMENTS

Describe current and past land use, improvements and structures. Discuss the stewardship implications of this use.

Uses to consider: recreation, dumping, agriculture, mining, grazing, etc. Discuss the possibility of hazardous or toxic waste disposal on site including reasons as to why it may or may not be a problem.

POTENTIAL HAZARDS

Describe potential natural hazards (e.g., cliffs, caves, waterfalls, etc.) on the site and indicate any precautions stewardship should take.

EXOTIC FLORA/FAUNA COMMENTS

Describe potentially damaging exotic (i.e., alien) flora and fauna (e.g., cheatgrass, leafy spurge, knapweed, feral cats, horses, etc.) on the site. Indicate their location and abundance, as well as their effect on the viability of endangered elements. Indicate also how stewardship will manage or control the exotic species and whether local ordinances require such control.

OFF-SITE CONSIDERATIONS

Describe off-site land uses (e.g., farming, logging, grazing, dumping, watershed diversion, etc.) and how those uses might affect the site, elements on the site, and management of the site.

SITE AND ELEMENT MANAGEMENT NEEDS

Summarize the expected management needs for the site and the elements on it. Include routine items such as need for fencing, restricting use, grazing, control of exotics, burning, etc.

COMMUNITY SURVEY FORM INSTRUCTIONS

IDENTIFICATION AND LOCATION

MANUAL

Enter the version number of the MTNHP survey manual used in completing this form (i.e., "91B" for this manual).

UNITS (one-character code)

Units of Length - enter "X" in the appropriate space to describe if the units of length or height being entered are feet or meters.

PLOT NUMBER (seven-character alphanumeric code)

Record in order the year (2-digits), the first and second initial of the principal examiner (2-characters), and the plot ascension number (3-digits).

Example: The 33rd plot sampled in 1991 by Hank Gleason would be entered as 91HG033.

EOCODE (14-character alphanumeric code)

Element Occurrence Code - enter this code in the field only if it's known. Record in order the MTNHP element code (10-characters), a period, and occurrence ascension number (3-digits).

Example: The 23rd occurrence of the Douglas-fir/little bluestem plant association would be entered as C2ABBABF0.023.

PNC

Potential Natural Community - if the PNC is questionable, make notes concerning the problem either in this field or in the "Comments" field.

CT

Community Type - in many cases, the CT and PNC will be equivalent. If the CT is questionable, make notes concerning the problem either in this field or in the "Comments" field.

SITE

Surveysite - name assigned to the plot site at the time it is sampled. In many cases, this name will be equivalent to the "Sitename" given on the Site Survey Form, except will include modifiers to differentiate this specific plot from the general site.

Example: A plot in the eastern portion of the Block Mountain Standard Site might have the Surveysite name "Block Mountain East".

A few standards in naming follow:

1. do not use element names in the site name
2. use local place names when available
3. use names of features on topographic maps when local names do not exist

PURP (one-character code)

Purpose - enter one of the following codes explaining why the data was collected. If more than one code applies, enter "I":

- F - evaluation of fire effect, fire history, or fuels
- C - TES plant species habitat analysis
- G - TES animal species habitat analysis
- W - general wildlife habitat analysis
- B - big game habitat analysis
- M - range monitoring (e.g., readiness, trend, utilization)
- V - correlation of vegetation with soil survey
- D - evaluation of watershed erosion, rehabilitation, or cover
- Z - research plot
- L - correlation or classification for spectral or LANDSAT data
- J - RNA and SIA analysis
- E - new classification or succession study
- I - integrated multi-resource inventory and monitoring
- H - data to strengthen existing classification
- X - other purpose not listed here

PREC (one-character code)

Precision to which the plot can be located on a topographic map is defined as follows:

- S second - mappable within a three-second radius
- M minute - mappable within a one-minute radius

(approximately 2 km or 1.5 miles)

- G general - mappable to quad or place name precision only
 (precision within about 8 km or 5 miles)

COMMUNITY SIZE (acres)

Total size of the continuous community occurrence (not plot size).

PLOT TYPES (up to five-character code)

Up to five of the following 1-digit codes listing the types of forms completed for this plot:

- S - Site Survey Form
- C - Community Survey Form
- M - Microplot Vegetation Data Form
- T - Tree Measurement Form
- E - Soil Characterization Form
- R - Reconnaissance Soil Characterization Form

PLTRL (up to three-digit number)

Plot Radius or Length - enter plot radius (for circular plots) or length (for rectangular plots). Indicate units of measurement.

Note: a 375 m² plot has a radius of 10.9 m (35.8 ft)
 a 50 m² plot has a radius of 4.0 m (13.1 ft)

PLOT W (up to three-digit number)

Plot Width - enter width if a rectangular plot shape is used. Enter 0 (numeric) if a circular plot shape is used. Indicate units of measurement.

SURVEY (five-character alphanumeric code)

Character 1 - method of locating plot. Enter one of the following:

- A - plot subjectively located to represent vegetation in occurrence (typically used in inventory)
- B - plot subjectively located to represent stand, and will be used to monitor vegetation change through

time with or without treatment

- C - plot is part of series of replicated plots systematically or randomly located within occurrence to describe the occurrence
- E - plot is part of series of replicated plots systematically or randomly located in treatment or control area to measure vegetation change with treatment over time
- F - plot is part of predetermined stratified sampling design (e.g., gradsect)

Character 2 - photo taken of plot? Enter Y or N.

Character 3 - permanency and location of plot. Enter one of the following:

- N - plot not permanent, the exact location unknown
- P - permanent plot marked with stakes or measurements to permanent features, and location and layout are marked on map
- L - plot not permanent, but location accurately marked on 1:24,000 or larger scale map or aerial photo to about 100 feet
- G - plot not permanent, and location known only within general geographic area

Characters 4 and 5 - for use with re-measurement plots. Enter re-measurement ascension number (e.g., 01 for initial measurement; 06 for sixth measurement). Leave blank otherwise.

PHOTOS

Indicate how many photos were taken of the plot and any details regarding the photo(s), e.g., "One photo taken looking N across entire plot".

DIRECTIONS

Directions to Plot - enter precise directions to the plot using a readily locatable landmark (e.g., a city, a major highway, etc.) as the starting point on a state or local road map. Use clear complete sentences that will be understandable to someone who is unfamiliar with the area, needs to get to the plot, and has only your directions to follow. Cite dis-

tances as closely as possible to the 1/10 of a mile, use compass directions (N, S, E, and W), and be sure to specify the best access to the plot, such as where to park or which trail to use.

CONSERVATION RANKING

Grade the community occurrences condition, viability, and defensibility according to the following scale:

- A - excellent
- B - good
- C - marginal
- D - poor
- F - terrible

COND (one-character code)

Condition - base grade on how much of the site and the community occurrence itself has been damaged or altered from its optimal condition and character. Provide comments on condition grade.

VIAB (one-character code)

Viability - base grade on the long-term prospects for continued existence of the occurrence. Provide comments on viability grade.

DEFN (one-character code)

Defensibility - base grade on the extent to which the occurrence can be protected from extrinsic human factors that might otherwise degrade or destroy it. Provide comments on defensibility grade.

RANK (one-character code)

Summary grade of the condition, viability, and defensibility grades listed. Provide comments on this overall grade, i.e., EORANKCOM.

MGMT

Management Comments - comment on any management (new or additional) needed to ensure continued existence of the

community occurrence, and chances (and means) of bringing it about. Any other pertinent comments go here as well, e.g., "... clearing of competing vegetation has been tried in the past but without success".

PROT

Protection Comments - comment on any legal protection (new or additional) needed to ensure continued existence of the community occurrence, and chances (and means) of bringing it about. Any other pertinent comments go here as well, e.g., "... landowner shows interest in taking action to legally protect community occurrence".

ENVIRONMENTAL FEATURES

DL (one-character code)

Dominant Life Form - enter one of the following codes to describe the dominant live life form currently present on the plot (Note: dominate life form = life form with the greatest foliar volume):

- A - aquatic species dominate
- B - broadleaf trees dominate
- C - coniferous trees dominate
- F - forbs dominate
- G - graminoids dominate
- H - herbs (graminoid/forb mixture) dominate
- M - moss or lichens dominate
- N - non-vegetated soil
- P - agricultural cropland
- R - rock or scree
- S - shrubs dominate

SOIL RPT

Soil Survey Report - cite the soil survey report used to identify the "Soil Unit" and "Soil Taxon". If none, enter "-".

Example: "Soil Survey of Madison County (SCS 1989)"

SOIL UNIT

Enter the appropriate map unit symbol from the soil survey map of the area. If none, enter "-".

SOIL TAXON

Enter the appropriate soil subgroup name from the soil survey report for the area. If not known, enter "-".

PM (four-character code)

Parent Material - enter the appropriate parent material code from the list below:

Sedimentary

SETU - type unknown
LIME - limestone
DOLO - dolomite
SAND - sandstone
CASA - calcareous sandstone
SILT - siltstone
CASI - calcareous siltstone
SHAL - shale
RESH - red shale
CASH - calcareous shale
CONG - conglomerate
CACO - calcareous conglomerate

Metamorphic

METU - type unknown
ARGI - argillite
CAAR - calcareous argillite
SILI - siltite
QUAR - quartzite
SLAT - slate
PHYL - phyllite
SCHI - schist
BISC - biotite schist
MISC - mica schist
GNBG - gneiss and biotite gneiss

Igneous

IGTU - type unknown
BASA - basalt (including obsidian)
ANDE - andesite
DIGA - diorite to gabbro
LATI - latite
QUMO - quartz monzonite
TRSY - trachyte and syenite
RHYO - rhyolite
GRBG - granite and biotite granite
WETU - welded tuff (tufa)
SCOR - scoria (porcelanite), clinker

Miscellaneous
 GRAL - gravelly alluvium
 SAAL - sandy alluvium
 SIAL - silty alluvium
 CLAL - clayey alluvium
 MIAL - mixed alluvium
 GLTI - glacial till, mixed origin
 ASHT - ash (of any origin)
 MISE - mixed sedimentary
 MIME - mixed metamorphic
 MIIG - mixed igneous
 LOES - loess
 MIRT - mix of two or more rock types
 DUNE - sand dunes

LANDFORM (four-character code)

Enter the appropriate geomorphic landform code from the list below:

<u>General Landform Type</u>	<u>Code</u>	<u>Refined Landform Type</u>
residual mountain slopes and ridges	RMTU	type unknown
	RMDS	dissected straight slopes
	RMDC	dissected convex slopes
	RMUS	undissected slopes
	RMRI	ridges
	RMDE	depressions
glaciated mountain slopes and ridges	GMTU	type unknown
	GMUS	undissected slopes
	GMDS	dissected slopes
	GMRI	ridges
alpine glacial valleys	AVTU	type unknown
	AVTB	trough bottoms
	AVUT	undissected troughwalls
	AVDT	dissected troughwalls
	AVAP	avalanche paths and debris fans
alpine glacial ridges	ARTU	type unknown
	ARCB	cirque basins
	ARCH	cirque headwalls and alpine ridges
	ARUU	undulating uplands

<u>General Landform Type</u>	<u>Code</u>	<u>Refined Landform Type</u>
rolling uplands	RUTU	type unknown
	RULR	low relief rolling uplands
	RULD	low relief uplands, dense drainage
	RUMR	moderate relief rolling uplands
	RUDR	dissected rolling uplands
breaklands	BLTU	type unknown
	BLDR	dissected river breaks
	BLUR	undissected river breaks
	BLSB	structural breaks
	BLSH	stream headlands
structurally controlled mountain slopes	SCTU	type unknown
	SCDS	dip slopes
	SCDR	dipping layered rocks
	SCPL	plateaus
glacial till forms	GTTU	type unknown
	GTMO	moraines
	GTDL	drumlins
	GTKK	kames and kettles
alluvial-colluvial-lacustrine forms	ACTU	type unknown
	ACFP	flood plains
	ACTE	terraces
	ACAF	alluvial fans
	ACCF	colluvial fans
	ACBT	colluvial basins and toeslopes
	ACAB	alluvial basins
mass wasted slopes	MWTU	type unknown
	MWLS	landslides

PLOT POS (four-character code)

Plot Position - enter the appropriate code from the list below to describe the topographic position of the plot:

<u>General Plot Position</u>	<u>Code</u>	<u>Refined Plot Position</u>
narrow valley bottom (<100 feet wide)	NVTU	type unknown
	NVSC	stream channel
	NVSB	stream bar
	NVLE	levee (narrow flood plain overbank deposits)
	NVCD	colluvial deposit (colluvial fan)
moderate valley bottom (100-300 feet wide)	MVTU	type unknown
	MVSC	stream channel
	MVSB	stream bar
	MVFP	flood plain (incl. levees if appropriate)
	MVAM	abandoned meander
	MVOX	oxbow
	MVBS	backwater slough
	MVTE	terrace
	MVAF	alluvial fan (toeslope)
wide valley bottom (>300 feet wide)	WVTU	type unknown
	WVSC	stream channel
	WVSB	stream bar
	WVFP	flood plain (incl. levees if appropriate)
	WVAM	abandoned meander
	WVOX	oxbow
	WVBS	backwater slough
	WVTE	terrace
	WVAF	alluvial fan (toeslope)
slope features	SLTU	type unknown
short slope	SLSS	short slope, neither upper nor lower (<100 ft)
lower slope	SLLS AFLS	lower slope lower slope of alluvial fan (fan skirt)
mid slope	SLMS AFMS	mid slope mid slope of alluvial fan
upper slope	SLUS AFUS	upper slope upper slope of alluvial fan

<u>General Plot Position</u>	<u>Code</u>	<u>Refined Plot Position</u>
shoulder	SHDR	shoulder
ridge	RINR	narrow ridge (<100 ft wide)
	RIWR	wide ridge summit (>100 ft wide)
bench	BNCH	bench in mountainous terrain

SLP SHAPE (one-character code)

Slope Shape - enter one of the following codes to indicate the vertical shape of the slope on which the plot lies:

S - straight or even
 R - rounded or convex
 D - depression or concave
 P - patterned (micro-relief of hummocks and swales)
 U - undulating pattern of low ridges or knolls and draws
 X - other

ASP (up to three-digit number)

Aspect - enter the direction of the slope on which the plot occurs (in degrees; corrected for declination).

SLOPE % (up to three-digit number)

Enter the steepness of the slope on which the plot occurs (in percent).

EROS POTENT (two-character code)

Erosion Potential - enter one of the following codes to indicate the potential for erosion on the plot:

SA - soil surface is stable with no evidence of accelerated erosion

UC - soil surface is unstable because of compaction

UD - soil surface is unstable because of displacement and/or churning of the soil

UP - soil surface is unstable because of lack of protective vegetation cover

UA - unable to assess

EROS TYPE (two-character code)

Enter one of the following codes to indicate the dominant type of erosion occurring on the plot:

NO - none
SE - sheet erosion
RE - rill erosion
GE - gully erosion
DE - deposition
WE - wind erosion
SC - soil creep
SL - slump (earth flow)
TD - terrace development
SL - slide

HORIZON ANGLE (%) (up to three-digit numbers)

Record the angles to the four horizons (in percent).

IFSLP (up to three-digit number)

If "General Plot Position" is sloping (i.e., > 3% slope), estimate distance from top of slope to upper edge of plot. Indicate units of measurement.

IFVAL (up to three-digit number)

If "General Plot Position" is level (i.e., 0 - 3% slope), estimate distance across valley or flat (passing through plot). Indicate units of measurement.

SPFE

List any special features of the site on which the plot is located (if desirable, describe these features under "General Site Description"). If none described, enter "NA".

Examples: avalanche chute, talus, seep, etc.

GROUND COVER (two-digit codes)

Enter cover class code for each of the following types of ground cover:

- S - bare soil (particles < 1/16 in. dia.)
- G - gravel (particles 1/16 to 3 in. dia.)
- R - rock (particles > 3 in. dia.)
- L - litter and duff. Litter includes freshly-fallen leaves, needles, twigs, bark, fruits; duff is fermentation layer and humus layer.
- W - wood (downed fragments > 1/4 in. dia.)
- M - moss. Also includes Lycopodium and Selaginella.
- BV - basal vegetation. This is the area occupied by root crowns and stems, not canopy cover. Values rarely exceed 30% and are usually lower.
- O - other. Use when an additional category is needed. Identify the "other" item (e.g., lichen; water).

Use the following cover classes and codes:

<u>Code</u>	<u>Class</u>	<u>Midpoint</u>
0	0%	0%
1	< 1%	0.5%
3	1% to 4.9%	3%
10	5% to 14.9%	10%
20	15% to 24.9%	20%
30	25% to 34.9%	30%
40	35% to 44.9%	40%
50	45% to 54.9%	50%
60	55% to 64.9%	60%
70	65% to 74.9%	70%
80	75% to 84.9%	80%
90	85% to 94.9%	90%
98	95% to 100%	97.5%

RIPARIAN FEATURES

If the plot is within the riparian zone record the following information (indicate units of measurement as appropriate):

Channel Width (up to three-digit number) - if valley contains multiple channels, give width of channel nearest to the plot.

Channel Entrenchment (up to three-digit number) - depth to which channel has cut into valley floor.

Surface Water (two-digit code) - estimate of maximum ground cover of surface water on plot during the year (use cover classes listed above under "Ground Cover").

Height Above Water (up to three-digit number) - height of plot above stream or pond surface when water is at bank-full stage (water at bank-full stage reaches lower limit of terrestrial vegetation).

Distance from Water (up to three-digit number) - distance from water at bank-full stage to nearest plot edge.

GENERAL SITE DESCRIPTION

Description (a "word picture") of the place where the sampled community occurs. (Any specific information about the plot itself should be written into the "Comments" field following the "Ocular Plant Species Data"). Consider the setting of the community occurrence in the surrounding landscape (including landscape features and adjacent community types).

OCULAR PLANT SPECIES DATA

This portion of the form is used for recording plant species data by lifeform class, i.e., "Trees", "Shrubs", "Graminoids", and "Forbs".

For all cover estimates, use the codes from the following cover class table:

<u>Code</u>	<u>Class</u>	<u>Midpoint</u>
1	< 1%	0.5%
3	1% to 4.9%	3%
10	5% to 14.9%	10%
20	15% to 24.9%	20%
30	25% to 34.9%	30%
40	35% to 44.9%	40%
50	45% to 54.9%	50%
60	55% to 64.9%	60%
70	65% to 74.9%	70%
80	75% to 84.9%	80%
90	85% to 94.9%	90%
98	95% to 100%	97.5%

PltIDL (two-digit code)

Plant Identification Level - enter the two-digit number that represents the percent of canopy cover equal to or greater than which all plants are to be identified. For example, "5" indicates that all plant species having 5% canopy cover or greater would be recorded; "0" indicates all plant species have been recorded.

Tot Cv (two-digit code)

Total Cover - estimate the percent canopy cover for the respective lifeform. This estimate is not the sum of all species in the lifeform and does not count overlap. It is the horizontal percent cover of the vertical projection of the lifeform.

Tal Cv (two-digit code)

Tall Height Cover - estimate "Total Cover" (as described above) by life form for individuals taller than 5 m (16.4 ft).

Med Cv (two-digit code)

Medium Height Cover - estimate "Total Cover" (as described above) by life form for individuals between 0.5 and 5 m tall (1.6 - 16.4 ft).

Low Cv (two-digit code)

Low Height Cover - estimate "Total Cover" (as described above) by life form for individuals between 0.05 and 0.5 m tall (0.2 - 1.6 ft).

Grd Cv (two-digit code)

Ground Height Cover - estimate "Total Cover" (as described above) by life form for individuals shorter than 0.05 m (0.2 ft).

MHt (three-digit code)

Mean Height - estimate the mean height of the dominant size class within the respective lifeform. Indicate units of measurement.

CC (two-digit code)

Canopy Cover - enter the appropriate canopy cover code listed above for each species in each lifeform.

T1, T2, S1, etc.

List each species within a lifeform using the following convention: full scientific binomial, code name (first three letters of genus and first three letters of the specific epithet), and canopy cover code (see "CC" above).

Example: T1 Pinus ponderosa / PINPON | 40

COMMENTS (EODATA)

Specific information regarding the community occurrence at the site, e.g., numbers, size, condition, peculiar characteristics, viability.

AREA	SPECIES	LOCATION
Armstead	Red-tailed Hawk	T11S,R08W,S32,SENWSW
Bannack	Long-eared Owl	T07S,R11W,S03,NENENE
	Red-tailed Hawk*	T07S,R11W,S35,SWSWNW
	Red-tailed Hawk	T07S,R11W,S02,NWNWSE
	American Kestrel	T07S,R11W,S34,SWNENE
	Prairie Falcon	T08S,R11W,S04,NWSESW
	Prairie Falcon	T07S,R11W,S36,SWNWSW
Block Mtn.	Red-tailed Hawk	T04S,R08W,S36,NENWSW
	Golden Eagle	T04S,R08W,S23,SESENE
Diamond Butte	Swainson's Hawk	T14S,R06W,S04,SENWSW
	Swainson's Hawk	T15S,R07W,S02,NESENE
	Red-tailed Hawk	T15S,R07W,S12,NESENE
Frying Pan	Golden Eagle	T06S,R09W,S28,NWNESW
	Prairie Falcon	T06S,R09W,S17,SESWSW
	Prairie Falcon	T06S,R09W,S25,SENWSE
	American Kestrel	T06S,R09W,S28,NWNWNW
	American Kestrel	T06S,R09W,S28,NWNWSE
Henneberry Ridge	Prairie Falcon	T09S,R10W,S08,NENENE
	Prairie Falcon	T09S,R11W,S02,SWSESE
	Prairie Falcon	T09S,R10W,S19,SESESE
	American Kestrel	T09S,R10W,S07,NESESE
Vinegar Hill	Golden Eagle	T13S,R07W,S05,SENWSW
	Golden Eagle	T13S,R08W,S02,SWNWSE
	Prairie Falcon	T12S,R07W,S20,SESENE
Sweetwater	Golden Eagle	T09S,R05W,S04,SWSWNE
Incidental	Long-eared Owl	T14S,R04W,S06,NESENE

* Krider's Hawk ♂ x Dark morph ♀

COMMUNITY SURVEY FORM

MTNHP

5/27/91

GENERAL PLOT DATA

IDENTIFICATION AND LOCATION

PLOT NO. F-03 MOOD DAY 30 YEAR 92 MANUAL UNITS Xft m
 EXAMINER(S) Pam Hollington Eric Atkinson EOCODE *
 PNC Artemisia tridentata Agropyron - pectum CT
 SITE Frying Pan Mts. STATE MT COUNTY BEAV
 PURP W PREC S QUADNAME BOND QUADCODE 4511236
65 T/9W R/17S/SW4S/SE 4/4 COMMUNITY SIZE (acres)
 PLOT TYPES C PLTRL 35.8 PLOT W SURVEY AYL
 PHOTOS
 DIRECTIONS -->

CONSERVATION RANKING

COND Com:
 VIAB Com:
 DEFN Com:
 RANK Com:
 MGMT:
 PROT:

ENVIRONMENTAL FEATURES

DL Shrub SOIL RPT
 SOIL UNIT SOIL TAXON
 PM LANDFORM PLOT POS SLP SHAPE ASP
 SLOPE % ELEVATION EROS POTENT EROS TYPE
 HORIZON ANGLE (°): N E S W IFSLP IFVAL
 SPFE
 GROUND COVER: 30S+10G+30R+30L+1W+ M+10BV+ O = 100%
 DISTURBANCE HISTORY (type, intensity, frequency, season)-->

RIPARIAN FEATURES: Channel Width Channel Entrench
 Surface Water Ht. Abv. H2O Dist. from H2O

GENERAL SITE DESCRIPTION (landscape features and adjacent ct's)

OCULAR PLANT SPECIES DATA

C-06
PltIDL —

PLOT NO. <u>6-73</u>		NO. SPECIES <u>15</u>		PNC <u>ART TR</u> / <u>AGR SPI</u>	
TREES				FRBS	
Tot Cv <u>—</u>		MHT <u>—</u>		Tot Cv <u>1</u> MHT <u>4'</u>	
Tal Cv <u>—</u> Med Cv <u>—</u>				Med Cv <u>—</u> Low Cv <u>1</u>	
Low Cv <u>—</u> Grd Cv <u>—</u>		CC		Grd Cv <u>1</u> CC	
T 1	<u>/</u>			F 1 <u>Phlox hoodii</u>	<u>/ PHL HOD</u> <u>1</u>
T 2	<u>/</u>			F 2 <u>Astragalus dumosus</u>	<u>/ AST DUM</u> <u>T</u>
T 3	<u>/</u>			F 3 <u>Chrysanthemum leucanthemum</u>	<u>/ CHE FLE</u> <u>T</u>
T 4	<u>/</u>			F 4 <u>Gerardia squarrosa</u>	<u>/ GER SQU</u> <u>T</u>
T 5	<u>/</u>			F 5 <u>Balsamorhiza sagittata</u>	<u>/ BALS SAG</u> <u>T</u>
				F 6 <u>Lithospermum rubrale</u>	<u>/ LITH RUB</u> <u>T</u>
SHRBS				F 7 <u>/</u>	
Tot Cv <u>40</u> MHT <u>15'</u>				F 8 <u>/</u>	
Tal Cv <u>—</u> Med Cv <u>20</u>				F 9 <u>/</u>	
Low Cv <u>20</u> Grd Cv <u>10</u>		CC		F 10 <u>/</u>	
S 1 <u>Artemisia frigida</u>	<u>/ ART FR</u>	<u>10</u>		F 11 <u>/</u>	
S 2 <u>Artemisia tridentata</u>	<u>/ ART TR</u>	<u>20</u>		F 12 <u>/</u>	
S 3 <u>Dracopis polyacantha</u>	<u>/ DRU POL</u>	<u>10</u>		F 13 <u>/</u>	
S 4 <u>Chrysothamnus nauseosus</u>	<u>/ CHE NAU</u>	<u>10</u>		F 14 <u>/</u>	
S 5 <u>Ribes spp</u>	<u>/ RIB</u>	<u>1</u>		F 15 <u>/</u>	
S 6 <u>/</u>					
S 7 <u>/</u>					
S 8 <u>/</u>					
S 9 <u>/</u>					
S 10 <u>/</u>					
S 11 <u>/</u>					
S 12 <u>/</u>					
GRAM					
Tot Cv <u>30</u> MHT <u>1'</u>					
Med Cv <u>3</u> Low Cv <u>30</u>					
Grd Cv <u>1</u>		CC			
G 1 <u>Bouteloua gracilis</u>	<u>/ BOU GRA</u>	<u>10</u>			
G 2 <u>Poa sandbergii</u>	<u>/ POA SAN</u>	<u>1</u>			
G 3 <u>Agropyron spicatum</u>	<u>/ AGP SPI</u>	<u>20</u>			
G 4 <u>Oxytropis hymenocleis</u>	<u>/ OXY HYM</u>	<u>1</u>			
G 5 <u>/</u>					
G 6 <u>/</u>					
G 7 <u>/</u>					
G 8 <u>/</u>					
G 9 <u>/</u>					
G 10 <u>/</u>					
G 11 <u>/</u>					
G 12 <u>/</u>					
				FERN Tot Cv <u>—</u> MHT <u>—</u> Med Cv <u>—</u>	
				Low Cv <u>—</u> Grd Cv <u>—</u>	
				BRYO/LICH Tot Cv <u>10</u>	

COMMENTS (EODATA) -->

COMMUNITY SURVEY FORM

MTNHP

5/27/91

GENERAL PLOT DATA

IDENTIFICATION AND LOCATION

PLOT NO. F-04 MO 17 DAY 30 YEAR 92 MANUAL — UNITS X ft — m
 EXAMINER(S) Pam Harrington Eric Atkinson EOCODE — *—
 PNC Artemisia tridentata / Agropyron spicatum CT —
 SITE Burnshot STATE UT COUNTY BEAV
 PURP W PREC S QUADNAME ARGENTA QUADCODE 4511237
65 T/9 W R/18 S/5 W 4S/SE 4/4 COMMUNITY SIZE (acres)
 PLOT TYPES C PLTRL 35.8 PLOT W — SURVEY AVL
 PHOTOS —
 DIRECTIONS --> —
—
—
—

CONSERVATION RANKING

COND — Com: —
 VIAB — Com: —
 DEFN — Com: —
 RANK — Com: —
 MGMT: —
 PROT: —

ENVIRONMENTAL FEATURES

DL Shrub SOIL RPT —
 SOIL UNIT — SOIL TAXON —
 PM — LANDFORM — PLOT POS — SLP SHAPE — ASP —
 SLOPE % — ELEVATION — EROS POTENT — EROS TYPE —
 HORIZON ANGLE (%): N — E — S — W — IFSLP — IFVAL —
 SPFE —
 GROUND COVER: 10 S+20 G+30 R+10 L+10 W+— M+10 BV+10 O — = 100%
 DISTURBANCE HISTORY (type, intensity, frequency, season)--> —
—
—

RIPARIAN FEATURES: Channel Width — Channel Entrench —
 Surface Water — Ht.Abv.H2O — Dist. from H2O —

GENERAL SITE DESCRIPTION (landscape features and adjacent ct's)

—
—
—
—

PltIDL — C-08

COMMENTS (EODATA) --> _____

COMMUNITY SURVEY FORM

MTNHP

5/27/91

GENERAL PLOT DATA

IDENTIFICATION AND LOCATION

PLOT NO. F-15 MO 07 DAY 30 YEAR 92 EOCODE UNITS ✓ ft m
 EXAMINER(S) Pan Harrington Eric Atkinson
 PNC Artemisia tridentata / Perogyon spicatum CT
 SITE rhinanthus / 1603 STATE MT COUNTY BEAV
 PURP G PREC S QUADNAME BOND QUADCODE 4511236
65 T / 4WR / 8 S / N4S / SE4/4 COMMUNITY SIZE (acres)
 PLOT TYPES C PLTRL 35.8 PLOT W SURVEY AY
 PHOTOS
 DIRECTIONS -->

CONSERVATION RANKING

CQND Com:
 VIAB Com:
 DEFN Com:
 RANK Com:
 MGMT:
 PROT:

ENVIRONMENTAL FEATURES

DL Shrub SOIL RPT
 SOIL UNIT SOIL TAXON
 PM LANDFORM PLOT POS SLP SHAPE ASP
 SLOPE % ELEVATION EROS POTENT EROS TYPE
 HORIZON ANGLE (%): N E S W IFSLP IFVAL
 SPFE
 GROUND COVER: 10 S+ 30 G+ 30 R+ 10 L+ 10 W+ M+ 10 BV+ 10 O = 100%
 DISTURBANCE HISTORY (type, intensity, frequency, season) --S--

RIPARIAN FEATURES: Channel Width Channel Entrench
 Surface Water Ht. Abv. H2O Dist. from H2O

GENERAL SITE DESCRIPTION (landscape features and adjacent ct's)

OCULAR PLANT SPECIES DATA

PltID# C-10PLOT NO. R-25 NO. SPECIES 17 PNC ART TRI / AGR SPITREES Tot Cv — MHT —
Tal Cv — Med Cv —
Low Cv — Grd Cv —

CC

T 1 —
T 2 —
T 3 —
T 4 —
T 5 —FRBS Tot Cv 30 MHT 4'
Med Cv — Low Cv 30
Grd Cv 1

CC

F 1 Fragaria virginiana / FRIGV T
F 2 Potentilla canadensis / POTCAN T
F 3 Chenopodium temerarii / CHEFRE T
F 4 Scirpus caryus / SEUCAR I
F 5 Pseudocymopterus / DESPTC T ✓
F 6 Lappula canadensis / LAPCAN T ✓
F 7 Geum triflorum / GEUTRI T ✓
F 8 Prenanthes multifida / PUEMUL T
F 9 Eriogonum pumilus / ERIPUM I ✓
F 10 Stellaria media / STEFME 30 ✓SHRBS Tot Cv 40 MHT 15'
Tal Cv — Med Cv 20
Low Cv 20 Grd Cv 3

CC

S 1 Artemisia tridentata / ARTTRI 30
S 2 Ribes cereum / RIB 1
S 3 Antennaria canadensis / ANTCAN 3
S 4 Artemisia frigida / ARTFRE 1
S 5 Dracopis polyacanthus / DRIPOL 1
S 6 Ceanothus americanus / CENAMU 1
S 7 —
S 8 —
S 9 —
S 10 —
S 11 —
S 12 —F 11 —
F 12 —
F 13 —
F 14 —
F 15 —GRAM Tot Cv 30 MHT 1'
Med Cv — Low Cv 30
Grd Cv 10

CC

G 1 Rumex crispus / ROUCR 10
G 2 Plantago virginica / PLATVIR 10
G 3 Eragrostis canadensis / ERACAN 20
G 4 —
G 5 —
G 6 —
G 7 —
G 8 —
G 9 —
G 10 —
G 11 —
G 12 —FERN Tot Cv — MHT — Med Cv —
Low Cv — Grd Cv —
BRYO/LICH Tot Cv —COMMENTS (EODATA) --> Plot is on the ledge of a large rock outcrop -
A 35.8 radius plot would only include the rock outcrop covered
a sample including an area 5' out from the rock.O. West
2000

COMMUNITY SURVEY FORM

MTNHP

5/27/91

GENERAL PLOT DATA

IDENTIFICATION AND LOCATION

PLOT NO. F-16 MO 07 DAY 31 MANUAL — UNITS X ft — m
 EXAMINER(S) Pam Harrington YEAR 92 EOCODE — * —
 PNC Agropyron spicatum / Poa sandbergii CT —
 SITE Pine Creek Plot STATE mt COUNTY BEAV
 PURP G PREC S QUADNAME CORRAL CREEK QUADCODE 4411252
145 T/4WR/29 S/10W4S/5W4/4 COMMUNITY SIZE (acres) —
 PLOT TYPES C PLTRL 35.8 PLOT W — SURVEY AYL
 PHOTOS —
 DIRECTIONS --> —

CONSERVATION RANKING

COND — Com: —
 VIAB — Com: —
 DEFN — Com: —
 RANK — Com: —
 MGMT: —
 PROT: —

ENVIRONMENTAL FEATURES

DL Shrub SOIL RPT —
 SOIL UNIT — SOIL TAXON —
 PM — LANDFORM — PLOT POS — SLP SHAPE — ASP —
 SLOPE % — ELEVATION — EROS POTENT — EROS TYPE —
 HORIZON ANGLE (%): N — E — S — W — IFSLP — IFVAL —
 SPFE —
 GROUND COVER: 50 S+30 G+3 R+1 L+7 W+— M+10 BV+10 = 100%
 DISTURBANCE HISTORY (type, intensity, frequency, season)--> —

RIPARIAN FEATURES: Channel Width — Channel Entrench —
 Surface Water — Ht.Abv.H2O — Dist. from H2O —

GENERAL SITE DESCRIPTION (landscape features and adjacent ct's)

OCULAR PLANT SPECIES DATA

PltIDL C-12

PLOT NO. <u>E-10</u> NO. SPECIES <u>210</u> PNC <u>PGA SPI / PASAM</u>			
TREES Tot Cv <u> </u> Mht <u> </u> Tal Cv <u> </u> Med Cv <u> </u> Low Cv <u> </u> Grd Cv <u> </u>		FRBS Tot Cv <u>3</u> Mht <u>3'</u> Med Cv <u>—</u> Low Cv <u>T</u> Grd Cv <u>3</u>	CC CC
T 1	<u> </u>	F 1	<u>Allium fernum</u> / ALL FER T
T 2	<u> </u>	F 2	<u>Senecio racus</u> / SENCAN 1
T 3	<u> </u>	F 3	<u>Ponstemon aridus</u> / PEN AR T
T 4	<u> </u>	F 4	<u>Linum boreale</u> / LIN BOR T
T 5	<u> </u>	F 5	<u>Physcia didyma</u> / PHY DID T
SHRBS Tot Cv <u>10</u> Mht <u>1'</u> Tal Cv <u>—</u> Med Cv <u>T</u> Low Cv <u>10</u> Grd Cv <u>T</u>		F 6 <u>Heterotheca hirsuta</u> / HET HAR T F 7 <u>Hymenopappus polyceratus</u> / HYP POL 1 F 8 <u>Chenopodium douglasii</u> / CHA DOU 1 F 9 <u>Erigeron pumilus</u> / ERI PUM 1 F 10 <u>Taraxacum officinale</u> / TAR OFF T F 11 <u>Trigonopogon dubius</u> / TRP DUB T F 12 <u>Phlox hoodii</u> / PHO HOOD T F 13 <u>Draba oligosperma</u> / DRB OLI T F 14 <u>Antennaria parviflora</u> / ANT PAR T F 15 <u> </u>	CC CC
S 1	<u>Artemisia frigida</u> / ART FR 3		
S 2	<u>Chrysothamnus viscidiflorus</u> / CHR VIS 1		
S 3	<u>Arctostaphylos uva-ursi</u> / ART UVA 3		
S 4	<u>Rosa arkanziana</u> / ROS ARK 1		
S 5	<u>Artemisia cana</u> / ART CAN 3		
S 6	<u>Suaeda sp. occidentalis</u> / SUA 1		
S 7	<u>Cercantherus lanatus</u> / CER LAN 1		
S 8	<u>Artemisia tridentata</u> / ART TRI 3		
S 9	<u> </u>		
S 10	<u> </u>		
S 11	<u> </u>		
S 12	<u> </u>		
GRAM Tot Cv <u>30</u> Mht <u>1'</u> Med Cv <u>10</u> Low Cv <u>20</u> Grd Cv <u>1</u>		CC CC	
G 1	<u>Poa sandbergii</u> / POA SAN T		
G 2	<u>Agropyron subulatum</u> / AGP SUB 10		
G 3	<u>Phytolacca hymenocarpa</u> / PHY HEM 10		
G 4	<u>Stipa occidentalis</u> / STIP OCC 20		
G 5	<u> </u>		
G 6	<u> </u>		
G 7	<u> </u>		
G 8	<u> </u>		
G 9	<u> </u>		
G 10	<u> </u>		
G 11	<u> </u>		
G 12	<u> </u>		
		FERN Tot Cv <u>—</u> Mht <u>—</u> Med Cv <u>—</u> Low Cv <u>—</u> Grd Cv <u>—</u>	
		BRYO/LICH Tot Cv <u>T</u>	

COMMENTS (EODATA) -->

11/10/10 11/10/10

COMMUNITY SURVEY FORM

MTNHP

5/27/91

GENERAL PLOT DATA

IDENTIFICATION AND LOCATION

PLOT NO. F-07 MO 07 DAY 31 YEAR 92 MANUAL UNITS X ft m
 EXAMINER(S) Prim Harrington Eric Atkinson
 PNC Actinidia tridentata / Agave attenuata CT
 SITE Lakeview Nanta STATE MT COUNTY BEAV
 PURP G PREC S QUADNAME BIG TABLE MTN QUADCODE 441251
145T/4WR/28S/NE4S/SE4/4 COMMUNITY SIZE (acres)
 PLOT TYPES C PLTRL 35.8 PLOT W SURVEY AYL
 PHOTOS
 DIRECTIONS -->

CONSERVATION RANKING

COND Com:
 VIAB Com:
 DEFN Com:
 RANK Com:
 MGMT:
 PROT:

ENVIRONMENTAL FEATURES

DI Conifer SOIL RPT
 SOIL UNIT SOIL TAXON
 PM LANDFORM PLOT POS SLP SHAPE ASP
 SLOPE % ELEVATION EROS POTENT EROS TYPE
 HORIZON ANGLE (%): N E S W IFSLP IFVAL
 SPFE
 GROUND COVER: 3 S+ 1 G+ 1 R+ 70 L+ 1 W+ 1 M+ 20 BV+ 0 = 100%
 DISTURBANCE HISTORY (type, intensity, frequency, season)-->

RIPARIAN FEATURES: Channel Width Channel Entrench
 Surface Water Ht. Abv. H2O Dist. from H2O

GENERAL SITE DESCRIPTION (landscape features and adjacent ct's)

OCULAR PLANT SPECIES DATA

PltID# C-14

PLOT NO. <u>8-177</u> NO. SPECIES <u>36</u> PNC <u>ART TRE</u> / <u>AGR SPE</u>			
TREES Tot Cv <u>40</u> MHT <u>22'</u> Tal Cv <u>40</u> Med Cv <u>—</u> Low Cv <u>—</u> Grd Cv <u>—</u>		FRBS Tot Cv <u>20</u> MHT <u>4'</u> Med Cv <u>—</u> Low Cv <u>3</u> Grd Cv <u>20</u>	
CC		CC	
T 1	<u>Pseudotsuga menziesii</u> / <u>PSWEN</u>	40	
T 2	<u>—</u> / <u>—</u>		
T 3	<u>—</u> / <u>—</u>		
T 4	<u>—</u> / <u>—</u>		
T 5	<u>—</u> / <u>—</u>		
SHRBS Tot Cv <u>60</u> MHT <u>2'</u> Tal Cv <u>—</u> Med Cv <u>40</u> Low Cv <u>30</u> Grd Cv <u>—</u>		FRBS Tot Cv <u>20</u> MHT <u>4'</u> Med Cv <u>—</u> Low Cv <u>3</u> Grd Cv <u>20</u>	
CC		CC	
S 1	<u>Artemisia tridentata</u> / <u>ARTTRI</u>	40	
S 2	<u>Antennaria dioica</u> / <u>ANTDIO</u>	20	
S 3	<u>Rosa arvensis</u> / <u>ROSARK</u>	10	
S 4	<u>Astragalus triplicatus</u> / <u>ARTTRI</u>	10	
S 5	<u>Prunus</u> spp. / <u>PRU</u>	30	
S 6	<u>Antennaria dioica</u> / <u>ANTDIO</u>	3	
S 7	<u>Ribes</u> spp. / <u>RIB</u>	1	
S 8	<u>—</u> / <u>—</u>		
S 9	<u>—</u> / <u>—</u>		
S 10	<u>—</u> / <u>—</u>		
S 11	<u>—</u> / <u>—</u>		
S 12	<u>—</u> / <u>—</u>		
GRAM Tot Cv <u>90</u> MHT <u>1'</u> Med Cv <u>20</u> Low Cv <u>70</u> Grd Cv <u>10</u>		FRBS Tot Cv <u>20</u> MHT <u>4'</u> Med Cv <u>—</u> Low Cv <u>3</u> Grd Cv <u>20</u>	
CC		CC	
G 1	<u>Poa pratensis</u> / <u>POAPRA</u>	70	
G 2	<u>Bromus tectorum</u> / <u>BROTEC</u>	3	
G 3	<u>Koeleria cristata</u> / <u>KOECRI</u>	10	
G 4	<u>Habenaria brachyactis</u> / <u>HABBR</u>	10	
G 5	<u>Carex hirsuta</u> / <u>CAREH</u>	T	
G 6	<u>—</u> / <u>—</u>		
G 7	<u>—</u> / <u>—</u>		
G 8	<u>—</u> / <u>—</u>		
G 9	<u>—</u> / <u>—</u>		
G 10	<u>—</u> / <u>—</u>		
G 11	<u>—</u> / <u>—</u>		
G 12	<u>—</u> / <u>—</u>		
		FERN Tot Cv <u>—</u> MHT <u>—</u> Med Cv <u>—</u> Low Cv <u>—</u> Grd Cv <u>—</u>	
		BRYO/LICH Tot Cv <u>—</u>	

COMMENTS (EODATA) -->

COMMUNITY SURVEY FORM

MTNHP

5/27/91

GENERAL PLOT DATA

IDENTIFICATION AND LOCATION

PLOT NO. F-08 MO 07 DAY 31 MANUAL — UNITS X ft m
 EXAMINER(S) Pam Herrington Eric Atkinson
 PNC Rhus trilobata / Aspidosiphon CT —
 SITE 1100 h Ga N. 25.8 STATE MT COUNTY BEAV
 PURP IG PREC S QUADNAME Monida QUADCODE 4411253
145T/ SWR/ 35S/ NE4S/ NE4/4 COMMUNITY SIZE (acres)
 PLOT TYPES C PLTRL 25.8 PLOT W — SURVEY AYL
 PHOTOS —
 DIRECTIONS -->

CONSERVATION RANKING

COND — Com: —
 VIAB — Com: —
 DEFN — Com: —
 RANK — Com: —
 MGMT: —
 PROT: —

ENVIRONMENTAL FEATURES

DL Deciduous SOIL RPT —
 SOIL UNIT — SOIL TAXON —
 PM — LANDFORM — PLOT POS — SLP SHAPE — ASP —
 SLOPE % — ELEVATION — EROS POTENT — EROS TYPE —
 HORIZON ANGLE (%): N — E — S — W — IFSLP — IFVAL —
 SPFE —
 GROUND COVER: 30S+ - G+ - R+ 20L+ 10W+ 20M+ 20BV+ - O - = 100%
 DISTURBANCE HISTORY (type, intensity, frequency, season)--> —

RIPARIAN FEATURES: Channel Width — Channel Entrench —
 Surface Water — Ht.Abv.H2O — Dist. from H2O —

GENERAL SITE DESCRIPTION (landscape features and adjacent ct's)

OCULAR PLANT SPECIES DATA

PltID# C-16PLOT NO. F-04 NO. SPECIES 18 PNC KLU TRI / AGR SPITREES Tot Cv 50 Mht 15'
Tal Cv 50 Med Cv —
Low Cv — Grd Cv —

CC

FRBS Tot Cv 20 Mht 1'
Med Cv 10 Low Cv 10
Grd Cv 3

CC

T 1 12.11.03 sap / SAL 50
T 2 — —
T 3 — —
T 4 — —
T 5 — —SHRBS Tot Cv 10 Mht 2'
Tal Cv 10 Med Cv 3
Low Cv — Grd Cv —

CC

S 1 Ribes spp / RTE 3
S 2 Pentaptyllanthus thibet / BEN FLO 3
S 3 Rosa arkansana / ROS ARK 3
S 4 — —
S 5 — —
S 6 — —
S 7 — —
S 8 — —
S 9 — —
S 10 — —
S 11 — —
S 12 — —GRAM Tot Cv 45 Mht 3'
Med Cv 30 Low Cv 50
Grd Cv —

CC

G 1 Poa pratense / POA PR 40
G 2 Alapecurus alpinus / ALA ALP 30
G 3 Hordeum brachyantherum / HOR B3A 20
G 4 Beckmannia syzigachne / BEC SYZ 50
G 5 Carex pachystachya / CAR PAC 20
G 6 — —
G 7 — —
G 8 — —
G 9 — —
G 10 — —
G 11 — —
G 12 — —F 1 MENTHA spp / MEN T
F 2 Cymbidium officinale / CYM OFF 10
F 3 Helianthus millifolium / HEL MIL T
F 4 Geum macrophyllum / GEUM MAC 1
F 5 Senecio integrifolius / SEN INT 10
F 6 Macrorhynchus densiflorus / MAC DEN T
F 7 Potentilla anserina / POT ANS 3
F 8 Taraxacum officinale / TAR OFF 3
F 9 Erigeron pumilus / ERIG PUM T
F 10 — —
F 11 — —
F 12 — —
F 13 — —
F 14 — —
F 15 — —FERN Tot Cv — Mht — Med Cv —
Low Cv — Grd Cv —BRYO / LICH Tot Cv 1COMMENTS (EODATA) --> —
—
—

COMMUNITY SURVEY FORM

MTNHP

5/27/91

GENERAL PLOT DATA

IDENTIFICATION AND LOCATION

PLOT NO. F-09 MO 02 DAY 31 YEAR 92 ECODE *
 MANUAL UNITS X ft m
 EXAMINER(S) Pam Harrington Eric Atkinson
 PNC Rhus trilobata / Agave pyramidalis CT
 SITE Monida STATE MT COUNTY BEAV
 PURP G PREC S QUADNAME MONIDA QUADCODE 4411253
145T/4W R/35S/3W4S/NE4/4 COMMUNITY SIZE (acres)
 PLOT TYPES C PLTRL 35.8 PLOT W SURVEY AYL
 PHOTOS
 DIRECTIONS -->

CONSERVATION RANKING

COND Com:
 VIAB Com:
 DEFN Com:
 RANK Com:
 MGMT:
 PROT:

ENVIRONMENTAL FEATURES

DL Deciduous SOIL RPT
 SOIL UNIT SOIL TAXON
 PM LANDFORM PLOT POS SLP SHAPE ASP
 SLOPE % ELEVATION EROS POTENT EROS TYPE
 HORIZON ANGLE (%): N E S W IFSLP IFVAL
 SPFE
 GROUND COVER: S+ G+ R+ S+ L+ W+ M+ BV+ O = 100%
 DISTURBANCE HISTORY (type, intensity, frequency, season)-->

RIPARIAN FEATURES: Channel Width Channel Entrench
 Surface Water Ht. Abv. H2O Dist. from H2O

GENERAL SITE DESCRIPTION (landscape features and adjacent ct's)

OCULAR PLANT SPECIES DATA

PltIDL C-18

PLOT NO. <u>E-09</u>		NO. SPECIES <u>10</u>		PNC <u>RHUTRI / AGR SPI</u>	
TREES		Tot Cv <u>30</u>	Mht <u>18'</u>		
		Tal Cv <u>30</u>	Med Cv <u>—</u>		
		Low Cv <u>—</u>	Grd Cv <u>—</u>	CC	
T 1	<u>1.1102 spp / SAL</u>	<u>30</u>		F 1	<u>Galium macrophyllum / GALMAC</u>
T 2				F 2	<u>Galium boreale / GALBOR</u>
T 3				F 3	<u>Senecio integerrimus / SENINT</u>
T 4				F 4	<u>Cirsium spp / CERS</u>
T 5				F 5	<u>Lewisia pygmaea / LEWAPY</u>
SHRBS		Tot Cv <u>50</u>	Mht <u>10'</u>		
		Tal Cv <u>—</u>	Med Cv <u>50</u>		
		Low Cv <u>—</u>	Grd Cv <u>—</u>	CC	
S 1	<u>Willow spp / SAL</u>	<u>50</u>		F 6	
S 2	<u>Ribes spp / RIB</u>	<u>3</u>		F 7	
S 3	<u>Artemisia ludoviciana / ARTLUD</u>	<u>1</u>		F 8	
S 4				F 9	
S 5				F 10	
S 6				F 11	
S 7				F 12	
S 8				F 13	
S 9				F 14	
S 10				F 15	
S 11					
S 12					
GRAM		Tot Cv <u>30</u>	Mht <u>1'</u>		
		Med Cv <u>10</u>	Low Cv <u>20</u>		
		Grd Cv <u>—</u>		CC	
G 1	<u>Carex pachystachya / CARPAC</u>	<u>10</u>			
G 2	<u>Poa pratensis / POAPRA</u>	<u>10</u>			
G 3	<u>Alapecurus alpinus / ALOALP</u>	<u>10</u>			
G 4					
G 5					
G 6					
G 7					
G 8					
G 9					
G 10					
G 11					
G 12					
				FERN Tot Cv <u>—</u> Mht <u>—</u> Med Cv <u>—</u>	
				Low Cv <u>—</u> Grd Cv <u>—</u>	
				BRYO/LICH Tot Cv <u>—</u>	

COMMENTS (EODATA) -->

COMMUNITY SURVEY FORM

MTNHP

5/27/91

GENERAL PLOT DATA

IDENTIFICATION AND LOCATION

MANUAL UNITS X ft m
 PLOT NO. E-10 MO 07 DAY 31 YEAR 92 EOCODE *
 EXAMINER(S) Jim Harrington Eric Atkinson
 PNC Asplenium tridentatum / Asplenium speciosum CT
 SITE Shrine Lake Ridge STATE MT COUNTY BEAV
 PURP G PREC S QUADNAME MONIDA QUADCODE 4411253
145T/6W R/33S/5E4S/5E4/4 COMMUNITY SIZE (acres)
 PLOT TYPES C PLTRL 35.8 PLOT W SURVEY AYL
 PHOTOS
 DIRECTIONS -->

CONSERVATION RANKING

COND Com:
 VIAB Com:
 DEFN Com:
 RANK Com:

 MGMT:
 PROT:

ENVIRONMENTAL FEATURES

DL Shrub SOIL RPT
 SOIL UNIT SOIL TAXON
 PM LANDFORM PLOT POS SLP SHAPE ASP
 SLOPE % ELEVATION EROS POTENT EROS TYPE
 HORIZON ANGLE (%): N E S W IFSLP IFVAL
 SPFE
 GROUND COVER: 30S+T G+-R+50L+-W+-M+20BV+-O- = 100%
 DISTURBANCE HISTORY (type, intensity, frequency, season)-->

RIPARIAN FEATURES: Channel Width Channel Entrench
 Surface Water Ht. Abv. H20 Dist. from H20

GENERAL SITE DESCRIPTION (landscape features and adjacent ct's)

OCULAR PLANT SPECIES DATA

PltID# C-20

PLOT NO. <u>F-10</u>		NO. SPECIES <u>12</u>		PNC <u>ART TRE</u> / <u>AGE SPT</u>	
TREES		Tot Cv <u>—</u>	MHT <u>—</u>		
		Tal Cv <u>—</u>	Med Cv <u>—</u>		
		Low Cv <u>—</u>	Grd Cv <u>—</u>	CC	
T 1	<u>/</u>				
T 2	<u>/</u>				
T 3	<u>/</u>				
T 4	<u>/</u>				
T 5	<u>/</u>				
SHRBS		Tot Cv <u>60</u>	MHT <u>1'</u>		
		Tal Cv <u>—</u>	Med Cv <u>20</u>		
		Low Cv <u>50</u>	Grd Cv <u>—</u>	CC	
S 1	<u>Artemisia tridentata / ART TRE</u>	<u>40</u>			
S 2	<u>Gutierrezia sarothra / GUTSAR</u>	<u>30</u>			
S 3	<u>Artemisia tridentata / ART TRE</u>	<u>10</u>			
S 4	<u>/</u>				
S 5	<u>/</u>				
S 6	<u>/</u>				
S 7	<u>/</u>				
S 8	<u>/</u>				
S 9	<u>/</u>				
S 10	<u>/</u>				
S 11	<u>/</u>				
S 12	<u>/</u>				
GRAM		Tot Cv <u>60</u>	MHT <u>5'</u>		
		Med Cv <u>—</u>	Low Cv <u>20</u>		
		Grd Cv <u>50</u>		CC	
G 1	<u>Poa sandbergii / POASPB</u>	<u>40</u>			
G 2	<u>Agropyron smithii / AGPSPT</u>	<u>40</u>			
G 3	<u>Koeleria macrantha / KOHMAC</u>	<u>10</u>			
G 4	<u>Carex filialis / CAREFL</u>	<u>3</u>			
G 5	<u>/</u>				
G 6	<u>/</u>				
G 7	<u>/</u>				
G 8	<u>/</u>				
G 9	<u>/</u>				
G 10	<u>/</u>				
G 11	<u>/</u>				
G 12	<u>/</u>				
		FERN Tot Cv <u>—</u> MHT <u>—</u> Med Cv <u>—</u>			
		Low Cv <u>—</u> Grd Cv <u>—</u>			
		BRYO/LICH Tot Cv <u>—</u>			

COMMENTS (EODATA) -->

COMMUNITY SURVEY FORM

MTNHP
5/27/91

GENERAL PLOT DATA

IDENTIFICATION AND LOCATION

PLOT NO. F-11 MO 07 DAY 31 MANUAL — UNITS X ft — m
 EXAMINER(S) Don Harrington YEAR 92 EOCODE — *
Eric Atkinson
 PNC Artemisia tridentata / Agropyron spicatum CT —
 SITE Diamond Biotic Nest STATE MT COUNTY BEAV
 PURP G PREC S QUADNAME MONICA QUADCODE 4411253
155T/6W R/8 S/NE4S/SE4/4 COMMUNITY SIZE (acres) —
 PLOT TYPES C PLTRL 35.8 PLOT W — SURVEY AYL
 PHOTOS —
 DIRECTIONS -->

CONSERVATION RANKING

COND — Com: —
 VIAB — Com: —
 DEFN — Com: —
 RANK — Com: —
 MGMT: —
 PROT: —

ENVIRONMENTAL FEATURES

DL Shrub SOIL RPT —
 SOIL UNIT — SOIL TAXON —
 PM — LANDFORM — PLOT POS — SLP SHAPE — ASP —
 SLOPE % — ELEVATION — EROS POTENT — EROS TYPE —
 HORIZON ANGLE (%): N — E — S — W — IFSLP — IFVAL —
 SPFE —
 GROUND COVER: 10 S+ 50 G+ 20 R+ 10 L+ — W+ — M+ 10 BV+ — O — = 100%
 DISTURBANCE HISTORY (type, intensity, frequency, season)--> —

RIPARIAN FEATURES: Channel Width — Channel Entrench —
 Surface Water — Ht. Abv. H2O — Dist. from H2O —

GENERAL SITE DESCRIPTION (landscape features and adjacent ct's)

PltIDL C-22

COMMENTS (EODATA) --> _____

COMMUNITY SURVEY FORM

MTNHP
5/27/91

GENERAL PLOT DATA

IDENTIFICATION AND LOCATION

PLOT NO. F-12 MO. 07 DAY 31 MANUAL UNITS X ft m
 EXAMINER(S) Pam Harrington YEAR 92 EOCODE *
ERIC ATKINSON
 PNC Artemisia tridentata / Agropyron spicatum CT
 SITE Frontal Plot STATE MT COUNTY BEAV
 PURP G PREC S QUADNAME SNOWLINE QUADCODE 4411254
15S T/ 6WR/ 7 S/ 5W4S/ 5W4/4 COMMUNITY SIZE (acres)
 PLOT TYPES C PLTRL 25.8 PLOT W SURVEY AYL
 PHOTOS
 DIRECTIONS -->

CONSERVATION RANKING

COND Com:
 VIAB Com:
 DEFN Com:
 RANK Com:
 MGMT:
 PROT:

ENVIRONMENTAL FEATURES

DI Conifer SOIL RPT
 SOIL UNIT SOIL TAXON
 PM LANDFORM PLOT POS SLP SHAPE ASP
 SLOPE % ELEVATION EROS POTENT EROS TYPE
 HORIZON ANGLE (%): N E S W IFSLP IFVAL
 SPFE
 GROUND COVER: 1 S+ 1 G+ 1 R+ 80 L+ 3 W+ 1 M+ 20 BV+ 0 = 100%
 DISTURBANCE HISTORY (type, intensity, frequency, season)-->

RIPARIAN FEATURES: Channel Width Channel Entrench
 Surface Water Ht. Abv. H2O Dist. from H2O

GENERAL SITE DESCRIPTION (landscape features and adjacent ct's)

OCULAR PLANT SPECIES DATA

PLTIDL C-24

PLOT NO. <u>F-12</u> NO. SPECIES <u>14</u> PNC <u>ART TRE / AGR SPI</u>	
TREES Tot Cv <u>30</u> MHT <u>22'</u> Tal Cv <u>30</u> Med Cv <u>1</u> Low Cv <u>1</u> Grd Cv <u>—</u> CC	FRBS Tot Cv <u>10</u> MHT <u>5'</u> Med Cv <u>—</u> Low Cv <u>10</u> Grd Cv <u>3</u> CC
T 1 <u>Rousselia macrocarpa / PSE MEN</u> <u>30</u>	F 1 <u>Lilium milifolium / LIL MIL</u> <u>1</u>
T 2 <u>U</u> <u>—</u>	F 2 <u>Eriogonum umbellatum / ERI UMB</u> <u>1</u> F-11
T 3 <u>—</u> <u>—</u>	F 3 <u>Berberis repens / BER REP</u> <u>1</u>
T 4 <u>—</u> <u>—</u>	F 4 <u>Draba oligosperma / DRA OLI</u> <u>1</u>
T 5 <u>—</u> <u>—</u>	F 5 <u>Berberis repens / BER REP</u> <u>2</u>
	F 6 <u>Lupinus sericeus / LUP SER</u> <u>1</u> F-11
SHRBS Tot Cv <u>50</u> MHT <u>2'</u>	F 7 <u>Galium boreale / GAL BOR</u> <u>1</u> F-09 ✓
Tal Cv <u>—</u> Med Cv <u>10</u>	F 8 <u>Delphinium bicolor / DEL BIC</u> <u>1</u>
Low Cv <u>20</u> Grd Cv <u>—</u> CC	F 9 <u>Erysimum inconspicuum / ERY INC</u> <u>1</u>
S 1 <u>Pricklesia tridentata / PRICK</u> <u>20</u>	F 10 <u>—</u> <u>—</u>
S 2 <u>Symphoricarpos / SYM</u> <u>20</u>	F 11 <u>—</u> <u>—</u>
S 3 <u>Ribes sp. / RIB</u> <u>20</u>	F 12 <u>—</u> <u>—</u>
S 4 <u>Buttercupia nivalis / BUT NIV</u> <u>20</u>	F 13 <u>—</u> <u>—</u>
S 5 <u>—</u> <u>—</u>	F 14 <u>—</u> <u>—</u>
S 6 <u>—</u> <u>—</u>	F 15 <u>—</u> <u>—</u>
S 7 <u>—</u> <u>—</u>	<u>—</u> <u>—</u>
S 8 <u>—</u> <u>—</u>	<u>—</u> <u>—</u>
S 9 <u>—</u> <u>—</u>	<u>—</u> <u>—</u>
S 10 <u>—</u> <u>—</u>	<u>—</u> <u>—</u>
S 11 <u>—</u> <u>—</u>	<u>—</u> <u>—</u>
S 12 <u>—</u> <u>—</u>	<u>—</u> <u>—</u>
GRAM Tot Cv <u>40</u> MHT <u>15'</u>	<u>—</u> <u>—</u>
Med Cv <u>30</u> Low Cv <u>20</u>	<u>—</u> <u>—</u>
Grd Cv <u>—</u> CC	<u>—</u> <u>—</u>
G 1 <u>Stipa comata / STE COM</u> <u>10</u>	<u>—</u> <u>—</u>
G 2 <u>Parrya spicata / PAR SPI</u> <u>10</u>	<u>—</u> <u>—</u>
G 3 <u>Bromus japonicus / BRO JAP</u> <u>1</u>	<u>—</u> <u>—</u>
G 4 <u>Festuca idahoensis / FES IDA</u> <u>10</u>	<u>—</u> <u>—</u>
G 5 <u>Stipa occidentalis / STE OCC</u> <u>20</u>	<u>—</u> <u>—</u>
G 6 <u>—</u> <u>—</u>	<u>—</u> <u>—</u>
G 7 <u>—</u> <u>—</u>	<u>—</u> <u>—</u>
G 8 <u>—</u> <u>—</u>	<u>—</u> <u>—</u>
G 9 <u>—</u> <u>—</u>	<u>—</u> <u>—</u>
G 10 <u>—</u> <u>—</u>	<u>—</u> <u>—</u>
G 11 <u>—</u> <u>—</u>	<u>—</u> <u>—</u>
G 12 <u>—</u> <u>—</u>	<u>—</u> <u>—</u>
	FERN Tot Cv <u>—</u> MHT <u>—</u> Med Cv <u>—</u> Low Cv <u>—</u> Grd Cv <u>—</u> BRYO/LICH Tot Cv <u>—</u>

COMMENTS (EODATA) --> _____

COMMUNITY SURVEY FORM

MTNHP
5/27/91

GENERAL PLOT DATA

IDENTIFICATION AND LOCATION

PLOT NO. F-13 MO 08 DAY 01 MANUAL — UNITS X ft — m
 EXAMINER(S) Dan Harrington Eric Atkinson YEAR 92 EOCODE — *
 PNC (11022.005 lat. folius / Agropyron spicatum CT
 SITE Vinegar Hill STATE MT COUNTY DE AV
 PURP G PREC S QUADNAME VINEGAR HILL QUADCODE 4411274
125 T / 7 W R / 28 S / 5E 4 S / 5E 4 / 4 COMMUNITY SIZE (acres)
 PLOT TYPES C PLTRL 35, 8 PLOT W — SURVEY AYL
 PHOTOS —
 DIRECTIONS -->

CONSERVATION RANKING

COND — Com: —
 VIAB — Com: —
 DEFN — Com: —
 RANK — Com: —
 MGMT: —
 PROT: —

ENVIRONMENTAL FEATURES

DL Shrub SOIL RPT —
 SOIL UNIT — SOIL TAXON —
 PM — LANDFORM — PLOT POS — SLP SHAPE — ASP —
 SLOPE % — ELEVATION — EROS POTENT — EROS TYPE —
 HORIZON ANGLE (%): N — E — S — W — IFSLP — IFVAL —
 SPFE —
 GROUND COVER: 20 S + 10 G + 10 R + 30 L + 10 W + — M + 10 BV + — O = 100%
 DISTURBANCE HISTORY (type, intensity, frequency, season) -->

RIPARIAN FEATURES: Channel Width — Channel Entrench —
 Surface Water — Ht. Abv. H2O — Dist. from H2O —

GENERAL SITE DESCRIPTION (landscape features and adjacent ct's)

OCULAR PLANT SPECIES DATA

PltID# C-26PLOT NO. F-12 NO. SPECIES 29 PNC CERIEO / AGK SPE

TREES				CC	FRBS				CC
Tot	Cv	MHT			Tot	Cv	MHT		
Tal	Cv	Med	Cv		Med	Cv	Low	Cv	
Low	Cv	Grd	Cv		Grd	Cv			
T 1					F 1	<i>Linum catharticum</i>		1 IN PER	3
T 2					F 2	<i>Alchemilla (Lysichiton) sp.</i>			1
T 3					F 3	<i>Potentilla gracilis</i>		POT GRA	T ✓
T 4					F 4	<i>Tragopogon dubius</i>		TRA GRB	T
T 5					F 5	<i>Humboldtia palustris</i>		HUM PAL	T
					F 6	<i>Antennaria parvifolia</i>		ANT PAR	1
SHRBS	Tot Cv	MHT			F 7	<i>Monarda mollis</i>		MON MOL	T
	Tal Cv	Med Cv			F 8	<i>Stachys viridiflora</i>		STACH VIR	T
	Low Cv	Grd Cv			F 9	<i>Draba oligosperma</i>		DRAB OL	T x
					F 10	<i>Lewisia pygmaea</i>		LEW PYG	T ✓
S 1	<i>Cercocarpus ledifolius</i>		40		F 11	<i>Erigeron phillyi</i>		ERI PHIL	T
S 2	<i>Gutierrezia sarothrae</i>		1		F 12	<i>Sedum lanceolatum</i>		SED LAN	T ✓
S 3	<i>Artemisia tridentata</i>		10		F 13	<i>Chamaechaenactis</i>		CHAMA CHA	T
S 4	<i>Artemisia frigida</i>		3		F 14	<i>Astragalus digynus</i>		AST DIG	T
S 5	<i>Chrysothamnus nauseosus</i>		3		F 15	<i>Taraxacum officinale</i>		TAR OFF	10
S 6									
S 7									
S 8									
S 9									
S 10									
S 11									
S 12									
GRAM	Tot Cv	MHT							
	Med Cv	Low Cv							
	Grd Cv								
G 1	<i>Oxyopsis hymenoclea</i>		20						
G 2	<i>Horroripia sarcocolla</i>		30						
G 3	<i>Silene comata</i>		1						
G 4	<i>Muhlenbergia cuspidata</i>		10						
G 5									
G 6									
G 7									
G 8									
G 9									
G 10									
G 11									
G 12									
					FERN	Tot Cv	MHT	Med Cv	
						Low Cv	Grd Cv		
					BRYO/LICH	Tot Cv			

COMMENTS (EODATA) -->

COMMUNITY SURVEY FORM

MTNHP
5/27/91

GENERAL PLOT DATA

IDENTIFICATION AND LOCATION

PLOT NO. F-14 MO 06 DAY 01 MANUAL — UNITS X ft — m
 EXAMINER(S) Pam Harrington YEAR 92 EOCODE — *
Eric Atkinson
 PNC Stipa comata / Bouteloua curtipendula CT
 SITE 4000 ft STATE MT COUNTY BEAV
 PURP 6 PREC 5 QUADNAME DALYS QUADCODE 4511217
95 T / 10WR / 19 S / NE4S / SW4/4 COMMUNITY SIZE (acres)
 PLOT TYPES C PLTRL 25.8 PLOT W — SURVEY AYL
 PHOTOS
 DIRECTIONS -->

CONSERVATION RANKING

COND — Com: —
 VIAB — Com: —
 DEFN — Com: —
 RANK — Com: —
 MGMT: —
 PROT: —

ENVIRONMENTAL FEATURES

DL Shrub SOIL RPT —
 SOIL UNIT — SOIL TAXON —
 PM — LANDFORM — PLOT POS — SLP SHAPE — ASP —
 SLOPE % — ELEVATION — EROS POTENT — EROS TYPE —
 HORIZON ANGLE (%): N — E — S — W — IFSLP — IFVAL —
 SPFE —
 GROUND COVER: 3 S + 40 G + 40 R + 10 L + — W + — M + 3 BV + 20 — = 100%
 DISTURBANCE HISTORY (type, intensity, frequency, season)--> —

RIPARIAN FEATURES: Channel Width — Channel Entrench —
 Surface Water — Ht. Abv. H2O — Dist. from H2O —

GENERAL SITE DESCRIPTION (landscape features and adjacent ct's)

OCULAR PLANT SPECIES DATA

C-28
PltID#

PLOT NO. <u>F-14</u>		NO. SPECIES <u>14</u>		PNC <u>STICOM / BOULGER</u>	
TREES		Tot Cv <u>-</u>	Mht <u>-</u>	FRBS Tot Cv <u>2</u> Mht <u>.2'</u>	
		Tal Cv <u>-</u>	Med Cv <u>-</u>	Med Cv <u>-</u> Low Cv <u>-</u>	
		Low Cv <u>-</u>	Grd Cv <u>-</u>	Grd Cv <u>3</u>	
		CC		CC	
T 1	/			F 1 <u>Senecio canus</u>	<u>SENCAN</u>
T 2	/			F 2 <u>Lactuca spp</u>	<u>LAC</u>
T 3	/			F 3 <u>Phlox hoodii</u>	<u>PHLHON</u>
T 4	/			F 4 <u>Sedum laevigatum</u>	<u>SEDLAV</u>
T 5	/			F 5 <u>Eriogonum chrysops</u>	<u>ERTCHR</u>
				F 6 <u>Erythronium compositus</u>	<u>ERTCOM</u>
SHRBS	Tot Cv <u>10</u>	Mht <u>1'</u>		F 7	
	Tal Cv <u>-</u>	Med Cv <u>1</u>		F 8	
	Low Cv <u>2</u>	Grd Cv <u>10</u>	CC	F 9	
				F 10	
S 1 <u>Artemisia frigida</u>	<u>ARTFRF</u>	<u>3</u>		F 11	
S 2 <u>Gutierrezia parotricha</u>	<u>GUTPAR</u>	<u>1</u>		F 12	
S 3 <u>Atriplex canescens</u>	<u>ATRANA</u>	<u>3</u>		F 13	
S 4 <u>Juniperus communis</u>	<u>JUNCOM</u>	<u>1</u>		F 14	
S 5 <u>Artemisia tridentata</u>	<u>ARTTRT</u>	<u>1</u>		F 15	
S 6					
S 7					
S 8					
S 9					
S 10					
S 11					
S 12					
GRAM	Tot Cv <u>20</u>	Mht <u>.2'</u>			
	Med Cv <u>1</u>	Low Cv <u>10</u>			
	Grd Cv <u>3</u>		CC		
G 1 <u>Stipa comata</u>	<u>STICOM</u>	<u>20</u>			
G 2 <u>Muhlenbergia cuscuta</u>	<u>MUCUS</u>	<u>1</u>			
G 3 <u>Agropyron spicatum</u>	<u>AGPSPT</u>	<u>1</u>			
G 4					
G 5					
G 6					
G 7					
G 8					
G 9					
G 10					
G 11					
G 12					
				FERN Tot Cv <u>-</u> Mht <u>-</u> Med Cv <u>-</u>	
				Low Cv <u>-</u> Grd Cv <u>-</u>	
				BRYO/LICH Tot Cv <u>-</u>	

COMMENTS (EODATA) -->

COMMUNITY SURVEY FORM

MTNHP

5/27/91

GENERAL PLOT DATA

IDENTIFICATION AND LOCATION

PLOT NO. F-15 MO 08 DAY 01 MANUAL — UNITS X ft — m
 EXAMINER(S) Pam Harrington YEAR 92 EOCODE — * —
 PNC Agropyron spicatum / Poa sandbergii CT —
 SITE Pan-mach, NAD STATE MT COUNTY RIEAV
 PURP G PREC S QUADNAME BANNACK QUADCODE 4511228
75 T / 11W R / 35S / SE4S / NE4/4 COMMUNITY SIZE (acres)
 PLOT TYPES C PLTRL 25.8 PLOT W — SURVEY AYL
 PHOTOS —
 DIRECTIONS -->

CONSERVATION RANKING

COND — Com: —
 VIAB — Com: —
 DEFN — Com: —
 RANK — Com: —
 MGMT: —
 PROT: —

ENVIRONMENTAL FEATURES

DL Shrub SOIL RPT —
 SOIL UNIT — SOIL TAXON —
 PM — LANDFORM — PLOT POS — SLP SHAPE — ASP —
 SLOPE % — ELEVATION — EROS POTENT — EROS TYPE —
 HORIZON ANGLE (°): N — E — S — W — IFSLP — IFVAL —
 SPFE —
 GROUND COVER: — S+ 70 G+ 10 R+ 10 L+ — W+ — M+ 10 BV+ 10 = 100%
 DISTURBANCE HISTORY (type, intensity, frequency, season)--> —

RIPARIAN FEATURES: Channel Width — Channel Entrench —
 Surface Water — Ht. Abv. H2O — Dist. from H2O —

GENERAL SITE DESCRIPTION (landscape features and adjacent ct's)

—
—
—
—

PltIDL C-30

COMMENTS (EODATA) -->

Ferruginous Hawk (Buteo regalis) Inventories
on the Dillon Resource Area
of Southwest Montana; 1992

by

Eric C. Atkinson

Montana Natural Heritage Program
1515 East Sixth Avenue
Helena, Montana 59620

for the

Bureau of Land Management
Dillon Resource Area
Dillon, Montana 59725

Cooperative Challenge Cost Share Program
Montana Natural Heritage Program
Bureau of Land Management

December 1992

Ferruginous Hawk (Buteo regalis) Inventories
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Dillon, Montana 59725

Cooperative Challenge Cost Share Program
Montana Natural Heritage Program
Bureau of Land Management

December 1992

COMMUNITY SURVEY FORM

MTNHP
5/27/91

GENERAL PLOT DATA

IDENTIFICATION AND LOCATION

PLOT NO. 92PH001 MO 07 DAY 07 MANUAL _____ UNITS X ft _____ m
EXAMINER(S) Phyllis Olson YEAR 92 EOCODE _____ * _____
PNC Salix drummondiana CT _____
SITE uninc. P. #1 STATE MT COUNTY LINCOLN
PURP _____ PREC _____ QUADNAME _____ QUADCODE _____
32 T/ 26 R/ 13 S/ NW 4/4 COMMUNITY SIZE (acres) _____
PLOT TYPES _____ PLTRL 13.1 PLOT W _____ SURVEY _____
PHOTOS _____
DIRECTIONS --> _____

CONSERVATION RANKING

COND _____ Com: _____
VIAB _____ Com: _____
DEFN _____ Com: _____
RANK _____ Com: _____
MGMT: _____
PROT: _____

ENVIRONMENTAL FEATURES

DL _____ SOIL RPT _____
SOIL UNIT _____ SOIL TAXON _____
PM _____ LANDFORM _____ PLOT POS _____ SLP SHAPE _____ ASP _____
SLOPE % _____ ELEVATION ~4700 EROS POTENT _____ EROS TYPE _____
HORIZON ANGLE (%): N _____ E _____ S _____ W _____ IFSLP _____ IFVAL _____
SPFE _____
GROUND COVER: 0 S+ 0 G+ 0 R+ 30 L+ 0 W+ 60 M+ 10 BV+ 0 O = 100%
DISTURBANCE HISTORY (type, intensity, frequency, season)--> _____

RIPARIAN FEATURES: Channel Width _____ Channel Entrench _____
Surface Water _____ Ht.Abv.H20 _____ Dist. from H20 _____

GENERAL SITE DESCRIPTION (landscape features and adjacent ct's)

COMMUNITY SURVEY FORM

MTNHP

5/27/91

GENERAL PLOT DATA

IDENTIFICATION AND LOCATION

PLOT NO. 92 PH002 MO 07 DAY 07 MANUAL _____ UNITS X ft _____ m
 EXAMINER(S) Pam. Harrington YEAR 92 EOCODE _____ * _____
 PNC Phlox psilocarpa / californica CT
 SITE Quadrant 1, E2 canadensis, Rose STATE MT COUNTY LINCOLN
 PURP _____ PREC _____ QUADNAME _____ QUADCODE _____
32 T / 26 R / 13 S / NW 4S / 4/4 COMMUNITY SIZE (acres) _____
 PLOT TYPES _____ PLTRL _____ PLOT W _____ SURVEY _____
 PHOTOS _____
 DIRECTIONS --> _____

CONSERVATION RANKING

COND _____ Com: _____
 VIAB _____ Com: _____
 DEFN _____ Com: _____
 RANK _____ Com: _____
 MGMT: _____
 PROT: _____

ENVIRONMENTAL FEATURES

DL _____ SOIL RPT _____
 SOIL UNIT _____ SOIL TAXON _____
 PM _____ LANDFORM _____ PLOT POS _____ SLP SHAPE _____ ASP _____
 SLOPE % _____ ELEVATION ~4700 EROS POTENT _____ EROS TYPE _____
 HORIZON ANGLE (%): N _____ E _____ S _____ W _____ IFSLP _____ IFVAL _____
 SPFE _____
 GROUND COVER: 3 S+ 0 G+ 0 R+ 20 L+ 0 W+ 50 M+ 20 BV+ 0 O = 100%
 DISTURBANCE HISTORY (type, intensity, frequency, season)--> _____

RIPARIAN FEATURES: Channel Width _____ Channel Entrench _____
 Surface Water _____ Ht. Abv. H2O _____ Dist. from H2O _____

GENERAL SITE DESCRIPTION (landscape features and adjacent ct's)

COMMUNITY SURVEY FORM

MTNHP

5/27/91

GENERAL PLOT DATA

IDENTIFICATION AND LOCATION

PLOT NO. 92PH003 MO 07 DAY 08 MANUAL _____ UNITS _____ ft _____ in
 EXAMINER(S) Pam Harrington YEAR 92 EOCODE _____ *
 PNC Carex rostrata CT _____
 SITE Twin Meadows H.O. STATE MT COUNTY Flathead
 PURP _____ PREC _____ QUADNAME _____ QUADCODE _____
32 T/26 R/20S/SW 4S/ 4/4 COMMUNITY SIZE (acres) _____
 PLOT TYPES _____ PLTRL _____ PLOT W _____ SURVEY _____
 PHOTOS _____
 DIRECTIONS --> _____

CONSERVATION RANKING

COND _____ Com: _____
 VIAB _____ Com: _____
 DEFN _____ Com: _____
 RANK _____ Com: _____
 MGMT: _____
 PROT: _____

ENVIRONMENTAL FEATURES

DL _____ SOIL RPT _____
 SOIL UNIT _____ SOIL TAXON _____
 PM _____ LANDFORM _____ PLOT POS _____ SLP SHAPE _____ ASP _____
 SLOPE % _____ ELEVATION 3880 EROS POTENT _____ EROS TYPE _____
 HORIZON ANGLE (%): N _____ E _____ S _____ W _____ IFSLP _____ IFVAL _____
 SPFE _____
 GROUND COVER: - S+ - G+ - R+20 Lt - W+20 Mt 10 BV+50.0 1.5 100%
 DISTURBANCE HISTORY (type, intensity, frequency, season) --> _____

RIPARIAN FEATURES: Channel Width _____ Channel Entrench _____
 Surface Water _____ Ht. Abv. H20 _____ Dist. from H20 _____

GENERAL SITE DESCRIPTION (landscape features and adjacent ct's)

COMMUNITY SURVEY FORM

MTNHP
5/27/91

GENERAL PLOT DATA

IDENTIFICATION AND LOCATION

PLOT NO. 92 PH084 MO 07 DAY 08 MANUAL _____ UNITS _____ ft _____ m
EXAMINER(S) Pam Harrington YEAR 92 EOCODE _____ * _____
PNC Salix drummondiana CT _____
SITE Twin Meadows STATE MT COUNTY Flathead
PURP _____ PREC _____ QUADNAME _____ QUADCODE _____
32 T/26 R/28 S/54 S/4/4 COMMUNITY SIZE (acres) _____
PLOT TYPES _____ PLTRL _____ PLOT W _____ SURVEY _____
PHOTOS _____
DIRECTIONS --> _____

CONSERVATION RANKING

COND _____ Com: _____
VIAB _____ Com: _____
DEFN _____ Com: _____
RANK _____ Com: _____
MGMT: _____
PROT: _____

ENVIRONMENTAL FEATURES

DL _____ SOIL RPT _____
SOIL UNIT _____ SOIL TAXON _____
PM _____ LANDFORM _____ PLOT POS _____ SLP SHAPE _____ ASP _____
SLOPE % _____ ELEVATION 3440 EROS POTENT _____ EROS TYPE _____
HORIZON ANGLE (°): N _____ E _____ S _____ W _____ IFSLP _____ IFVAL _____
SPFE _____
GROUND COVER: 10S+ 1G+ -R+ 30L+ 1W+ 30M+ 30BV+ 0 = 100%
DISTURBANCE HISTORY (type, intensity, frequency, season)--> _____

RIPARIAN FEATURES: Channel Width _____ Channel Entrench _____
Surface Water _____ Ht. Abv. H2O _____ Dist. from H2O _____

GENERAL SITE DESCRIPTION (landscape features and adjacent ct's)

COMMUNITY SURVEY FORM

MTNHP

5/27/91

GENERAL PLOT DATA

IDENTIFICATION AND LOCATION

PLOT NO. 22PH435 MO 07 DAY 02 MANUAL UNITS X ft m
 EXAMINER(S) Pam. Harrington YEAR 92 EOCODE *
 PNC Scirpus americanus CT
 SITE Dudley Marsh STATE MT COUNTY Lincoln
 PURP PREC (QUADNAME QUADCODE)
34 T/ 26 R/ 14 S/ 4S/ 4/4 COMMUNITY SIZE (acres)
 PLOT TYPES PLTRL PLOT W SURVEY
 PHOTOS
 DIRECTIONS -->

CONSERVATION RANKING

COND Com:
 VIAB Com:
 DEFN Com:
 RANK Com:
 MGMT:
 PROT:

ENVIRONMENTAL FEATURES

DL SOIL RPT
 SOIL UNIT SOIL TAXON
 PM LANDFORM PLOT POS SLP SHAPE ASP
 SLOPE % ELEVATION 3400 EROS POTENT EROS TYPE
 HORIZON ANGLE (%): N E S W IFSLP IFVAL
 SPFE
 GROUND COVER: 30 S+ G+ R+ 50 L+ W+ 20 M+ 10 BV+ 0 = 100%
 DISTURBANCE HISTORY (type, intensity, frequency, season)-->

RIPARIAN FEATURES: Channel Width Channel Entrench
 Surface Water Ht.Abv.H2O Dist. from H2O

GENERAL SITE DESCRIPTION (landscape features and adjacent ct's)

COMMUNITY SURVEY FORM

MTNHP

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GENERAL PLOT DATA

IDENTIFICATION AND LOCATION

PLOT NO. 92PH006 MO DAY MANUAL UNITS ft m
 EXAMINER(S) Pam Harrington YEAR ECODE *
 PNC Salix Community CT
 SITE Northern Spring STATE MT COUNTY Lincoln
 PURP PREC QUADNAME QUADCODE
34 T/26 R/14 S/4S/4/4 COMMUNITY SIZE (acres)
 PLOT TYPES PLTRL PLOT W SURVEY
 PHOTOS
 DIRECTIONS ---

CONSERVATION RANKING

COND Com:
 VIAB Com:
 DEFN Com:
 RANK Com:
 MGMT:
 PROT:

ENVIRONMENTAL FEATURES

DL SOIL RPT
 SOIL UNIT SOIL TAXON
 PM LANDFORM PLOT POS SLP SHAPE ASP
 SLOPE % ELEVATION 3400 EROS POTENT EROS TYPE
 HORIZON ANGLE (%): N E S W IFSLP IFVAL
 SPFE
 GROUND COVER: 10 S+ 0 G+ 0 R+ 40 L+ 0 W+ 20 M+ 30 BV+ 0 O = 100%
 DISTURBANCE HISTORY (type, intensity, frequency, season) ---

RIPARIAN FEATURES: Channel Width Channel Entrench
 Surface Water Ht. Abv. H2O Dist. from H2O

GENERAL SITE DESCRIPTION (landscape features and adjacent ct's)

COMMUNITY SURVEY FORM

MTNHP

5/27/91

GENERAL PLOT DATA

IDENTIFICATION AND LOCATION

PLOT NO. 92PH007 MO _____ DAY _____ MANUAL _____ UNITS _____ ft _____ m
 EXAMINER(S) Pam Harrington YEAR _____ EOCODE _____ * _____
 PNC Typha latifolia CT _____
 SITE int 5/27 STATE MT COUNTY Lincoln
 PURP _____ PREC _____ QUADNAME _____ QUADCODE _____
34 T/ 25 R/ 7 S/ 56 AS/ 4/4 COMMUNITY SIZE (acres) _____
 PLOT TYPES _____ PLTRL _____ PLOT W _____ SURVEY _____
 PHOTOS _____
 DIRECTIONS --> _____

CONSERVATION RANKING

COND _____ Com: _____
 VIAB _____ Com: _____
 DEFN _____ Com: _____
 RANK _____ Com: _____
 MGMT: _____
 PROT: _____

ENVIRONMENTAL FEATURES

DL _____ SOIL RPT _____
 SOIL UNIT _____ SOIL TAXON _____
 PM _____ LANDFORM _____ PLOT POS _____ SLP SHAPE _____ ASP _____
 SLOPE % _____ ELEVATION 3020 EROS POTENT _____ EROS TYPE _____
 HORIZON ANGLE (%): N _____ E _____ S _____ W _____ IFSLP _____ IFVAL _____
 SPFE _____
 GROUND COVER: 20 S+ 0 G+ 0 R+ 30 L+ 0 W+ 30 M+ 20 BV+ 0 O = 100%
 DISTURBANCE HISTORY (type, intensity, frequency, season)--> _____

RIPARIAN FEATURES: Channel Width _____ Channel Entrench _____
 Surface Water _____ Ht.Abv.H2O _____ Dist. from H2O _____

GENERAL SITE DESCRIPTION (landscape features and adjacent ct's)

COMMUNITY SURVEY FORM

MTNHP

5/27/91

GENERAL PLOT DATA

IDENTIFICATION AND LOCATION

PLOT NO. Q2PH008 MO 07 DAY 10 MANUAL UNITS ft m
 EXAMINER(S) Don Harrington YEAR 92 EOCODE *
 PNC Carex buxbaumii CT
 SITE 11 m. S. 1st. # STATE MT COUNTY Lincoln
 PURP PREC QUADNAME QUADCODE
34 T/ 25 R/ 35 S/ N4S/ 4/4 COMMUNITY SIZE (acres)
 PLOT TYPES PLTRL PLOT W SURVEY
 PHOTOS
 DIRECTIONS -->

CONSERVATION RANKING

COND Com:
 VIAB Com:
 DEFN Com:
 RANK Com:
 MGMT:
 PROT:

ENVIRONMENTAL FEATURES

DL SOIL RPT
 SOIL UNIT SOIL TAXON
 PM LANDFORM PLOT POS SLP SHAPE ASP
 SLOPE % ELEVATION 3280 EROS POTENT EROS TYPE
 HORIZON ANGLE (%): N E S W IFSLP IFVAL
 SPFE
 GROUND COVER: 10S+ 0G+ 0R+ 20L+ 0W+ 30M+ 30BV+ 0O = 100%
 DISTURBANCE HISTORY (type, intensity, frequency, season)-->

RIPARIAN FEATURES: Channel Width Channel Entrench
 Surface Water Ht.Abv.H2O Dist. from H2O

GENERAL SITE DESCRIPTION (landscape features and adjacent ct's)

COMMUNITY SURVEY FORM

MTNHP
5/27/91

GENERAL PLOT DATA

IDENTIFICATION AND LOCATION

PLOT NO. 92PH-009 MO 07 DAY 10 MANUAL _____ UNITS ft m
EXAMINER(S) Phm Hamilton YEAR 92 EOCODE _____ *
PNC Carex burbaunii CT _____
SITE Hamilton Park, #17 STATE MT COUNTY Lincoln
PURP 0 PREC _____ QUADNAME _____ QUADCODE _____
34 T/35 R/36 S/N44S/ 4/4 COMMUNITY SIZE (acres) _____
PLOT TYPES _____ PLTRL _____ PLOT W _____ SURVEY _____
PHOTOS _____
DIRECTIONS --> _____

CONSERVATION RANKING

COND _____ Com: _____
VIAB _____ Com: _____
DEFN _____ Com: _____
RANK _____ Com: _____
MGMT: _____
PROT: _____

ENVIRONMENTAL FEATURES

DL _____ SOIL RPT _____
SOIL UNIT _____ SOIL TAXON _____
PM _____ LANDFORM _____ PLOT POS _____ SLP SHAPE _____ ASP _____
SLOPE % _____ ELEVATION 3200 EROS POTENT _____ EROS TYPE _____
HORIZON ANGLE (%): N _____ E _____ S _____ W _____ IFSLP _____ IFVAL _____
SPFE _____
GROUND COVER: 10 S+ - G+ - R+ 30 L+ - W+ 30 M+ 20 BV+ - O - = 100%
DISTURBANCE HISTORY (type, intensity, frequency, season)--> _____

RIPARIAN FEATURES: Channel Width _____ Channel Entrench _____
Surface Water _____ Ht. Abv. H2O _____ Dist. from H2O _____

GENERAL SITE DESCRIPTION (landscape features and adjacent ct's)

COMMUNITY SURVEY FORM

MTNHP
5/27/91

GENERAL PLOT DATA

IDENTIFICATION AND LOCATION

PLOT NO. 92 P4 d 10 MO 07 DAY 11 YEAR 92 MANUAL _____ UNITS X ft _____ m
 EXAMINER(S) Pam Harrington
 PNC Phlox lasiocarpa / Calamagrostis canadensis CT
 SITE Rio Hassinault Lake #1 STATE MI COUNTY Lincoln
 PURP _____ PREC _____ QUADNAME K Santa Peak QUADCODE 4811488
37 T / 25 R / 32 S / 10 W 4S / 4/4 COMMUNITY SIZE (acres)
 PLOT TYPES _____ PLTRL _____ PLOT W _____ SURVEY _____
 PHOTOS _____
 DIRECTIONS --> _____

CONSERVATION RANKING

COND _____ Com: _____
 VIAB _____ Com: _____
 DEFN _____ Com: _____
 RANK _____ Com: _____
 MGMT: _____
 PROT: _____

ENVIRONMENTAL FEATURES

DL _____ SOIL RPT _____
 SOIL UNIT _____ SOIL TAXON _____
 PM _____ LANDFORM _____ PLOT POS _____ SLP SHAPE _____ ASP _____
 SLOPE % _____ ELEVATION 5560 + EROS POTENT _____ EROS TYPE _____
 HORIZON ANGLE (%): N _____ E _____ S _____ W _____ IFSLP _____ IFVAL _____
 SPFE _____
 GROUND COVER: 10 S+ — G+ 3 R+ 12 L+ 50 W+ 30 M+ 50 BV+ — O = 100%
 DISTURBANCE HISTORY (type, intensity, frequency, season)--> _____

RIPARIAN FEATURES: Channel Width _____ Channel Entrench _____
 Surface Water _____ Ht. Abv. H2O _____ Dist. from H2O _____

GENERAL SITE DESCRIPTION (landscape features and adjacent ct's)

COMMUNITY SURVEY FORM

MTNHP

5/27/91

GENERAL PLOT DATA

IDENTIFICATION AND LOCATION

PLOT NO. 92PH011 MO 07 DAY 11 MANUAL _____ UNITS ft m
 EXAMINER(S) Bm Harrington YEAR 92 EOCODE *
 PNC Carex rostrata CT
 SITE Bia Thauvult Lake #2 STATE MT COUNTY Lincoln
 PURP JPREC QUADNAME Keanuka Peak QUADCODE 481488
37 T/25 R/32 S/N44S/ 4/4 COMMUNITY SIZE (acres)
 PLOT TYPES PLTRL PLOT W SURVEY
 PHOTOS
 DIRECTIONS -->

CONSERVATION RANKING

COND Com:
 VIAB Com:
 DEFN Com:
 RANK Com:
 MGMT:
 PROT:

ENVIRONMENTAL FEATURES

DL SOIL RPT
 SOIL UNIT SOIL TAXON
 PM LANDFORM PLOT POS SLP SHAPE ASP
 SLOPE % ELEVATION 5500 + EROS POTENT EROS TYPE
 HORIZON ANGLE (%): N E S W IFSLP IFVAL
 SPFE
 GROUND COVER: 3 S+ - G+ - R+ 20 L+ - W+ 40 M+ 20 BV+ - O - = 100%
 DISTURBANCE HISTORY (type, intensity, frequency, season)-->

RIPARIAN FEATURES: Channel Width Channel Entrench
 Surface Water Ht. Abv. H2O Dist. from H2O

GENERAL SITE DESCRIPTION (landscape features and adjacent ct's)

COMMUNITY SURVEY FORM

MTNHP

5/27/91

GENERAL PLOT DATA

IDENTIFICATION AND LOCATION

PLOT NO. 92 P1012 MO 07 DAY 11 YEAR 92 EOCODE *
 MANUAL UNITS ft m
 EXAMINER(S) Don Harrington
 PNC Abies balsamea / Calluna vulgaris CT
 SITE Big Hollow Lake #3 Canadensis STATE NY COUNTY Hamilton
 PURP PREC QUADNAME Ksenka Peak QUADCODE 4811488
37 T/ 25 R/ 32 S/ NW 4S/ 4/4 COMMUNITY SIZE (acres)
 PLOT TYPES PLTRL PLOT W SURVEY
 PHOTOS
 DIRECTIONS -->

CONSERVATION RANKING

COND Com:
 VIAB Com:
 DEFN Com:
 RANK Com:
 MGMT:
 PROT:

ENVIRONMENTAL FEATURES

DL SOIL RPT
 SOIL UNIT SOIL TAXON
 PM LANDFORM PLOT POS SLP SHAPE ASP
 SLOPE % ELEVATION 5560 EROS POTENT EROS TYPE
 HORIZON ANGLE (°): N E S W IFSLP IFVAL
 SPFE
 GROUND COVER: - S+ - G+ 1 R+ 10 L+ 1 W+ 60 M+ 20 BV+ - O - = 100%
 DISTURBANCE HISTORY (type, intensity, frequency, season)-->

RIPARIAN FEATURES: Channel Width Channel Entrench
 Surface Water Ht. Abv. H2O Dist. from H2O

GENERAL SITE DESCRIPTION (landscape features and adjacent ct's)

COMMUNITY SURVEY FORM

MTNHP

5/27/91

GENERAL PLOT DATA

IDENTIFICATION AND LOCATION

PLOT NO. 92PH013 MO 07 DAY 11 MANUAL _____ UNITS _____ ft _____ m
 EXAMINER(S) M. H. Houghton YEAR 92 EOCODE _____ *
 PNC Abies balsamea / Calamagrostis CT
 SITE Divide Creek canadensis IS STATE MT COUNTY Lincoln
 PURP _____ PREC _____ QUADNAME Stable QUADCODE 4811487
37T/24 R/19S/4S/4/4 COMMUNITY SIZE (acres) _____
 PLOT TYPES _____ PLTRL _____ PLOT W _____ SURVEY _____
 PHOTOS _____
 DIRECTIONS --> _____

CONSERVATION RANKING

COND _____ Com: _____
 VIAB _____ Com: _____
 DEFN _____ Com: _____
 RANK _____ Com: _____
 MGMT: _____
 PROT: _____

ENVIRONMENTAL FEATURES

DL _____ SOIL RPT _____
 SOIL UNIT _____ SOIL TAXON _____
 FM _____ LANDFORM _____ PLOT POS _____ SLP SHAPE _____ ASP _____
 SLOPE % _____ ELEVATION 5600 EROS POTENT _____ EROS TYPE _____
 HORIZON ANGLE (%): N _____ E _____ S _____ W _____ IFSLP _____ IFVAL _____
 SPFE _____
 GROUND COVER: 10 S+ 1 G+ 3 R+ 50 L+ 3 W+ 20 M+ 20 BV+ 1 O = 100%
 DISTURBANCE HISTORY (type, intensity, frequency, season)--> _____

RIPARIAN FEATURES: Channel Width _____ Channel Entrench _____
 Surface Water _____ Ht. Abv. H2O _____ Dist. from H2O _____

GENERAL SITE DESCRIPTION (landscape features and adjacent ct's)

COMMUNITY SURVEY FORM

MTNHP

5/27/91

GENERAL PLOT DATA

IDENTIFICATION AND LOCATION

PLOT NO. G2PH 014 MO 07 DAY 12 MANUAL _____ UNITS _____ ft _____ m
 EXAMINER(S) Pam H. Houghton YEAR 92 ECODE _____ *
 PNC Carex rostrata CT _____
 SITE Tom Poole North STATE MT COUNTY Lincoln
 PURP _____ PREC _____ QUADNAME _____ QUADCODE _____
33 T/ 31 R/ 28 S NE 1/4 4/4 COMMUNITY SIZE (acres) _____
 PLOT TYPES _____ PLTRL _____ PLOT W _____ SURVEY _____
 PHOTOS _____
 DIRECTIONS --> _____

CONSERVATION RANKING

COND _____ Com: _____
 VIAB _____ Com: _____
 DEFN _____ Com: _____
 RANK _____ Com: _____
 MGMT: _____
 PROT: _____

ENVIRONMENTAL FEATURES

DL _____ SOIL RPT _____
 SOIL UNIT _____ SOIL TAXON _____
 PM _____ LANDFORM _____ PLOT POS _____ SLP SHAPE _____ ASP _____
 SLOPE % _____ ELEVATION 2111 EROS POTENT _____ EROS TYPE _____
 HORIZON ANGLE (%): N _____ E _____ S _____ W _____ IFSLP _____ IFVAL _____
 SPFE _____
 GROUND COVER: 2 S+ 1 G+ 3 R+ 22 L+ 10 W+ 40 M+ 20 BV+ --- O = 100%
 DISTURBANCE HISTORY (type, intensity, frequency, season)--> _____

RIPARIAN FEATURES: Channel Width _____ Channel Entrench _____
 Surface Water _____ Ht. Abv. H2O _____ Dist. from H2O _____

GENERAL SITE DESCRIPTION (landscape features and adjacent ct's)

COMMUNITY SURVEY FORM

MTNHP
5/27/91

GENERAL PLOT DATA

IDENTIFICATION AND LOCATION

PLOT NO. 92 PH 015 MO 07 DAY 12 MANUAL _____ UNITS _____ ft _____ m
EXAMINER(S) Mr. Harrington YEAR 92 EOCODE _____ *
PNC Casix rostrata CT _____
SITE Tam. Park South STATE MT COUNTY Lincoln
PURP _____ PREC _____ QUADNAME _____ QUADCODE _____
33 T/31 R/28S/SE 4S/ 4/4 COMMUNITY SIZE (acres) _____
PLOT TYPES _____ PLTRL _____ PLOT W _____ SURVEY _____
PHOTOS _____
DIRECTIONS --> _____

CONSERVATION RANKING

COND _____ Com: _____
VIAB _____ Com: _____
DEFN _____ Com: _____
RANK _____ Com: _____
MGMT: _____
PROT: _____

ENVIRONMENTAL FEATURES

DL _____ SOIL RPT _____
SOIL UNIT _____ SOIL TAXON _____
PM _____ LANDFORM _____ PLOT POS _____ SLP SHAPE _____ ASP _____
SLOPE % _____ ELEVATION 3440 EROS POTENT _____ EROS TYPE _____
HORIZON ANGLE (%): N _____ E _____ S _____ W _____ IFSLP _____ IFVAL _____
SPFE _____
GROUND COVER: - S+ - G+ - R+ 10 L+ - W+ 70 M+ 20 BV+ - O - = 100%
DISTURBANCE HISTORY (type, intensity, frequency, season)--> _____

RIPARIAN FEATURES: Channel Width _____ Channel Entrench _____
Surface Water _____ Ht. Abv. H2O _____ Dist. from H2O _____

GENERAL SITE DESCRIPTION (landscape features and adjacent ct's)

COMMUNITY SURVEY FORM

MTNHP

5/27/91

GENERAL PLOT DATA

IDENTIFICATION AND LOCATION

PLOT NO. 92P4B11 MO 07 DAY 12 MANUAL _____ UNITS _____ ft _____ m
 EXAMINER(S) Pam Harrington YEAR 92 ECODE _____ * _____
 PNC Carex rostrata Carex aquatilis CT _____
 SITE Pete Creek Meadows Phase STATE _____ COUNTY _____
 PURP _____ PREC _____ QUADNAME _____ QUADCODE _____
37 T/ 33 R/ 13 S/ 4 S/ 4 4 COMMUNITY SIZE (acres) _____
 PLOT TYPES _____ PLTRL _____ PLOT W _____ SURVEY _____
 PHOTOS _____
 DIRECTIONS --> _____

CONSERVATION RANKING

COND _____ Com: _____
 VIAB _____ Com: _____
 DEFN _____ Com: _____
 RANK _____ Com: _____
 MGMT: _____
 PROT: _____

ENVIRONMENTAL FEATURES

DL _____ SOIL RPT _____
 SOIL UNIT _____ SOIL TAXON _____
 PM _____ LANDFORM _____ PLOT POS _____ SLP SHAPE _____ ASP _____
 SLOPE % _____ ELEVATION 4250' EROS POTENT _____ EROS TYPE _____
 HORIZON ANGLE (%): N _____ E _____ S _____ W _____ IFSLP _____ IFVAL _____
 SPFE _____
 GROUND COVER: 10 S+ 0 G+ 0 R+ 40 L+ 0 W+ 30 M+ 30 BV+ 0 O = 100%
 DISTURBANCE HISTORY (type, intensity, frequency, season)--> _____

RIPARIAN FEATURES: Channel Width _____ Channel Entrench _____
 Surface Water _____ Ht. Abv. H2O _____ Dist. from H2O _____

GENERAL SITE DESCRIPTION (landscape features and adjacent ct's)

MAYBEE MEADOWS
Preliminary Flora of wetland habitat
24 Oct 1992

SCIENTIFIC NAME*

Moss hummock habitat

Sphagnum spp. dominant in groundcover layer on hummocks
Carex utricularia dominant in herbaceous layer
Salix planifolia dominant in short shrub layer
Betula glandulosa
Carex aquatilis
C. atherodes
Pyrola elliptica
Senecio integerrimus
Calamagrostis canadensis
Pedicularis bracteosa
Poa (reflexa)
Geum (macrophyllum)
Lupinus (argenteus)
Potentilla spp.
UFOs (unidentified forbs observed)
Pinus contorta (becoming established on few hummocks and making up the surrounding prevalent upland forest cover)

Sedge meadow habitat (no moss or shrub cover; lying within previous habitat)

Carex (praeceptorum/bipartita/brunnescens) dominant
Carex praegracilis
Calamagrostis canadensis
Carex (lasiocarpa)
Alopecurus (pratensis) - introduced
Agrostis scabra - introduced

Willow thicket margin

Salix (drummondiana) dominant

*Genera with the species names in parantheses should be cited using "spp."

Table 1. Sites trapped during 1992 northern bog lemming surveys.

Table 1. Sites trapped during 1992 northern bog draining surveys.				
Site	Elev.	Date	Trap nights	
			snap	live pit
KOOTENAI NATIONAL FOREST				
Fortine District				
*Sunday Creek, Lincoln Co.	T32N R26W S13	4-7 July 21-24 July 17-21 Aug	361 477 638	50 100
"				
#Twin Meadows Creek, Lincoln Co.	T32N R26W S20	3-7 July	428	
#Dudley Slough, Lincoln Co.	T34N R26W S14	30 Jun-4 Jul	387	
#Ant Flats, Lincoln Co.	T34N R25W S7	30 Jun-4 Jul	288	
#Jumbo Lake, Lincoln Co.	T34N R25W S35&36	30 Jun-4 Jul	324	
#Big Therriault Lake, Lincoln Co.	T37N R25W S32	7-10 July	240	
#Divide Creek, Lincoln Co.	T37N R24W S19	7-10 July	252	
Three Rivers District				
*Hawkins Pond, Lincoln Co.	T37N R33W S18	26 July	6200	5
#Pete Creek Meadow, Lincoln Co.	T37N R33W S13&24	24-27 July	4300	423
Libby District				
Loon Lake, Lincoln Co.	T33N R32W S24&25	21-25 June	3600	250 200
Rainbow Lake, Lincoln Co.	T33N R31W S6&7	21-25 June	4200	150 240
#Tom Poole Lake, Lincoln Co.	T33N R31W S28	21-25 June	3400	150 200
Tepee Lake, Lincoln Co.	T28N R30W S25	17-21 June	4200	553 3
Cabinet District				
Rock Creek Meadow, Sanders Co.	T26N R31W S6	3-5 Aug	3800	290
FLATHEAD NATIONAL FOREST				
Tally Lake District				
*Bowen Creek, Lincoln Co.	T31N R26W S1	18-19 Aug	4760	114
Hellroaring Basin, Flathead Co.	T32N R22W S35	21-23 July	4600	272
BEAVERHEAD NATIONAL FOREST				
Wisdom District				
Schultz Crk trib., Beaverhead Co.	T1N R17W S31	13-17 July	8100	306
Schultz Saddle, Beaverhead Co.	T1S R18W S2	13-17 July	7840	404
The Creek meadows, Beaverhead Co.	T1S R18W S2	15-18 July	7360	279
*Maybe Meadows, Beaverhead Co.	T1S R17W S26	13-15 July	6520	140
BITTERROOT NATIONAL FOREST				
Sula District				
*Meadow Creek, Ravalli Co.	T1N R18W S10	17-18 July	5920	97
Grand Total			5160 2308	153

* = Synaptomys found at this site

= Plant community survey done at this site

APPENDIX D

Legal descriptions and habitat associations of Ferruginous
Hawk nests observed in southwest Montana (1992).

AREA	LOCATION	STATUS	ASSOCIATION
Armstead	T12S,R09W,S01,SENESE	INACTIVE	SS
	T11S,R08W,S31,NENESW	INACTIVE	FP
	T12S,R09W,S35,SESENW	INACTIVE	SS
Bannack	T07S,R11W,S35,SENENW	ACTIVE	SS
	T07S,R11W,S36,SWNESW	INACTIVE	SS
	T07S,R11W,S36,SWNWNW	INACTIVE	SS
	T07S,R11W,S36,SWNWNW	INACTIVE	SS
	T07S,R11W,S35,SENESE	INACTIVE	SS
	T07S,R11W,S36,SWNESW	INACTIVE	SS
	T07S,R11W,S36,SWNWNW	INACTIVE	SS
	T07S,R11W,S35,NESWNW	INACTIVE	SS
Block Mtn.	T04S,R08W,S16,SESWSW	ACTIVE	SS
Diamond Butte	T15S,R06W,S08,NESENE	ACTIVE	SS
	T15S,R06W,S07,SWSWNE	ACTIVE	SS
Frying Pan	T06S,R09W,S20,SENESE	ACTIVE	FP
	T06S,R09W,S18,SWSESE	ACTIVE	SS
	T06S,R09W,S18,SWNENW	ACTIVE	SS
	T06S,R09W,S17,SWSENE	ACTIVE	FP
	T06S,R09W,S08,NESENE	ACTIVE	SS
	T06S,R09W,S32,NWSWNE	ACTIVE	FP
	T07S,R09W,S04,NESENE	ACTIVE	SS
	T06S,R09W,S33,SWNWNW	ACTIVE	FP
	T06S,R09W,S18,SWNWSE	INACTIVE	SS
	T07S,R09W,S05,NENESW	INACTIVE	FP
	T06S,R09W,S18,SWNENW	INACTIVE	SS
	T06S,R09W,S18,SWNENW	INACTIVE	SS
	T06S,R09W,S18,SWNWSE	INACTIVE	SS
	T07S,R10W,S01,NENWNW	INACTIVE	FP
	T06S,R09W,S28,NWNWSE	INACTIVE	SS
	T06S,R09W,S20,SENESE	INACTIVE	FP
	T07S,R09W,S03,NESESE	INACTIVE	SS
	T06S,R09W,S08,NESENE	INACTIVE	SS
	T06S,R09W,S28,NWNWSE	INACTIVE	SS
	T06S,R10W,S25,NESESE	INACTIVE	SS
Henneberry Ridge	T09S,R10W,S19,NESWNE	ACTIVE	MM
	T08S,R11W,S35,NENWNW	INACTIVE	SS
	T08S,R11W,S35,SENENW	INACTIVE	SS
	T09S,R11W,S24,SENWSW	INACTIVE	MM
	T08S,R11W,S25,SESWNE	INACTIVE	SS
	T09S,R11W,S25,NENWNW	INACTIVE	SS
	T09S,R11W,S12,NENESW	INACTIVE	SS
	T08S,R11W,S25,SESENE	INACTIVE	SS
	T09S,R11W,S12,NENESW	INACTIVE	SS

AREA	LOCATION	STATUS	ASSOCIATION
Sweetwater	T08S,R05W,S27,SWNWSE	ACTIVE	FP
	T08S,R05W,S27,SWNWSE	INACTIVE	FP
	T08S,R05W,S27,NWNENE	INACTIVE	FP
Vinegar Hill	T12S,R07W,S28,SESESE	ACTIVE	FP
	T12S,R07W,S20,SENESE	INACTIVE	FP
	T12S,R07W,S28,SESWSW	INACTIVE	FP
Incidental	T14S,R06W,S33,SESENE	ACTIVE	FP

SS = Sagebrush Steppe
FP = Foothill Prairie
MM = Mountain Mahogany

APPENDIX E

Legal descriptions of other raptor nests observed while performing Ferruginous Hawk surveys in southwest Montana (1992).

ACCO. USA
WHEELING, ILLINOIS 60090

ITEM NO. 25978

50505 25978 6

RED/ROUGE/ROJO

MADE IN
U.S.A.