

**U.S. LOTIC WETLAND ECOLOGICAL HEALTH ASSESSMENT FOR  
STREAMS AND SMALL RIVERS (Survey)**

Record ID No:  
\_\_\_\_\_

Stream name: \_\_\_\_\_ Polygon No.: \_\_\_\_\_

Tributary to: \_\_\_\_\_ Management Unit: \_\_\_\_\_

Health score: \_\_\_\_\_ Health rating: \_\_\_\_\_

Polygon trend: \_\_\_\_\_

Approximate channel length (miles): \_\_\_\_\_

Approximate polygon size (acres): \_\_\_\_\_

Polygon latitude/longitude coordinates:

GPS Projection: \_\_\_\_\_

Decimal

Decimal

Upper: Lat: \_\_\_\_\_ Lon: \_\_\_\_\_

Lower: Lat: \_\_\_\_\_ Lon: \_\_\_\_\_

Date Assessed: \_\_\_\_\_

BLM Site ID: \_\_\_\_\_

Record ID No: \_\_\_\_\_

A large, empty rectangular box with a thin black border, occupying the central portion of the page. It is intended for data entry or a drawing.

# NARRATIVE EXECUTIVE SUMMARY

Record ID No: \_\_\_\_\_

# NARRATIVE EXECUTIVE SUMMARY (Cont.)

Record ID No:  
\_\_\_\_\_

**NARRATIVE EXECUTIVE SUMMARY (Cont.)**

Record ID No:  
\_\_\_\_\_

# NARRATIVE EXECUTIVE SUMMARY (Cont.)

Record ID No:

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**ADMINISTRATIVE DATA**

Unique Location ID: \_\_\_\_\_ Polygon No: \_\_\_\_\_

- A1.** Field data collected by: \_\_\_\_\_
- A2.** Funding Agency/Organization: \_\_\_\_\_
- A3a.** BLM State Office: \_\_\_\_\_
- A3b.** BLM Field Office/Field Station: \_\_\_\_\_
- A3c.** BLM Office Code: \_\_\_\_\_ **A3d.** Is the polygon in an active BLM grazing allotment? (Yes; No; NA): \_\_\_\_\_
- If **Yes, A3e:** Allotment Number: \_\_\_\_\_ **A3f:** Allotment Number: \_\_\_\_\_
- Allotment ID: \_\_\_\_\_ Allotment ID: \_\_\_\_\_
- Allotment Name: \_\_\_\_\_ Allotment Name: \_\_\_\_\_
- Management Status: \_\_\_\_\_ Management Status: \_\_\_\_\_
- A4.** USFWS Refuge: \_\_\_\_\_
- A5.** Reservation: \_\_\_\_\_
- A6.** NPS Park/NHS: \_\_\_\_\_
- A7.** USFS National Forest: \_\_\_\_\_
- A8.** Other Location: \_\_\_\_\_
- A9.** Year: \_\_\_\_\_ **A10.** Date field data collected: \_\_\_\_\_ **A11.** Observers: \_\_\_\_\_
- A12a.** At least some part of this polygon has been inventoried more than once (resampled)? (Yes; No): \_\_\_\_\_
- If **No**, go to item **A13a**. If **Yes, A12b.** This polygon coincides exactly with another inventoried polygon? (Yes; No): \_\_\_\_\_
- A12c.** Is this the latest inventory for this polygon? (Yes; No): \_\_\_\_\_
- A12d.** ID No.(s) of other inventories of this polygon: \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_
- A12e.** Other years: \_\_\_\_\_
- A12f.** This polygon shares common area with other inventoried polygon(s)? (Yes; No): \_\_\_\_\_ **A12g.** Other years: \_\_\_\_\_
- A12h.** ID No.(s) of other records sharing area with this polygon: \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_
- A13a.** Has a change in management occurred? (Yes; No): \_\_\_\_\_ If **Yes, A13b.** Year that changed occurred: \_\_\_\_\_
- A13c.** Type of management change applied: \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

**LOCATION DATA**

- B1.** State/Province: \_\_\_\_\_ **B2.** County/Municipal district: \_\_\_\_\_
- B3.** Allotment/Range/Management unit: \_\_\_\_\_
- B4a.** Area name: \_\_\_\_\_
- B4b.** Tributary to: \_\_\_\_\_
- B4c.** Group name: \_\_\_\_\_ **B4d.** Group number: \_\_\_\_\_ **B5.** Polygon number: \_\_\_\_\_
- B6a.** Upper end elevation (ft): \_\_\_\_\_ ; (m): \_\_\_\_\_ **B6b.** Lower end elevation (ft): \_\_\_\_\_ ; (m): \_\_\_\_\_
- B7.** Stream gradient (percent): \_\_\_\_\_ %
- B8a.** Polygon latitude/longitude coordinates: \_\_\_\_\_ GPS Projection: \_\_\_\_\_
- |             | Deg   | Min   | Sec   | N/S   | Decimal | Deg  | Min   | Sec   | E/W   | Decimal | Accuracy<br>+/- ft | Observer<br>Initial<br>& WPT |
|-------------|-------|-------|-------|-------|---------|------|-------|-------|-------|---------|--------------------|------------------------------|
| Upper: Lat: | _____ | _____ | _____ | _____ | _____   | Lon: | _____ | _____ | _____ | _____   | _____              | _____                        |
| Lower: Lat: | _____ | _____ | _____ | _____ | _____   | Lon: | _____ | _____ | _____ | _____   | _____              | _____                        |
| Other: Lat: | _____ | _____ | _____ | _____ | _____   | Lon: | _____ | _____ | _____ | _____   | _____              | _____                        |
- B8b.** Other Point \_\_\_\_\_
- Comments: \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

**B9.** Hydrologic unit code(s) (HUC) from the USGS National Hydrography Dataset (NHD): Record ID No: \_\_\_\_\_

HUC LEVELS: Region (2 digits; First Level HUC); Subregion (4 digits; Second Level HUC); Basin (6 digits; Third Level HUC); Subbasin (8 digits; Fourth Level HUC); Watershed (10 digits; Fifth Level HUC); and Subwatershed (12 digits; Sixth Level HUC)

HUC #1: \_\_\_\_\_  
River Miles: \_\_\_\_\_  
Percent of Stream Reach: \_\_\_\_\_  
Region Name: \_\_\_\_\_  
square miles: \_\_\_\_\_  
Subregion Name: \_\_\_\_\_  
square miles: \_\_\_\_\_  
Basin Name: \_\_\_\_\_  
square miles: \_\_\_\_\_  
Subbasin Name: \_\_\_\_\_  
square miles: \_\_\_\_\_  
Watershed Name: \_\_\_\_\_  
square miles: \_\_\_\_\_  
Subwatershed Name: \_\_\_\_\_  
acres: \_\_\_\_\_

HUC #2: \_\_\_\_\_  
River Miles: \_\_\_\_\_  
Percent of Stream Reach: \_\_\_\_\_  
Region Name: \_\_\_\_\_  
square miles: \_\_\_\_\_  
Subregion Name: \_\_\_\_\_  
square miles: \_\_\_\_\_  
Basin Name: \_\_\_\_\_  
square miles: \_\_\_\_\_  
Subbasin Name: \_\_\_\_\_  
square miles: \_\_\_\_\_  
Watershed Name: \_\_\_\_\_  
square miles: \_\_\_\_\_  
Subwatershed Name: \_\_\_\_\_  
acres: \_\_\_\_\_

HUC #3: \_\_\_\_\_  
River Miles: \_\_\_\_\_  
Percent of Stream Reach: \_\_\_\_\_  
Region Name: \_\_\_\_\_  
square miles: \_\_\_\_\_  
Subregion Name: \_\_\_\_\_  
square miles: \_\_\_\_\_  
Basin Name: \_\_\_\_\_  
square miles: \_\_\_\_\_  
Subbasin Name: \_\_\_\_\_  
square miles: \_\_\_\_\_  
Watershed Name: \_\_\_\_\_  
square miles: \_\_\_\_\_  
Subwatershed Name: \_\_\_\_\_  
acres: \_\_\_\_\_

HUC #4: \_\_\_\_\_  
River Miles: \_\_\_\_\_  
Percent of Stream Reach: \_\_\_\_\_  
Region Name: \_\_\_\_\_  
square miles: \_\_\_\_\_  
Subregion Name: \_\_\_\_\_  
square miles: \_\_\_\_\_  
Basin Name: \_\_\_\_\_  
square miles: \_\_\_\_\_  
Subbasin Name: \_\_\_\_\_  
square miles: \_\_\_\_\_  
Watershed Name: \_\_\_\_\_  
square miles: \_\_\_\_\_  
Subwatershed Name: \_\_\_\_\_  
acres: \_\_\_\_\_

HUC #5: \_\_\_\_\_  
River Miles: \_\_\_\_\_  
Percent of Stream Reach: \_\_\_\_\_  
Region Name: \_\_\_\_\_  
square miles: \_\_\_\_\_  
Subregion Name: \_\_\_\_\_  
square miles: \_\_\_\_\_  
Basin Name: \_\_\_\_\_  
square miles: \_\_\_\_\_  
Subbasin Name: \_\_\_\_\_  
square miles: \_\_\_\_\_  
Watershed Name: \_\_\_\_\_  
square miles: \_\_\_\_\_  
Subwatershed Name: \_\_\_\_\_  
acres: \_\_\_\_\_

HUC #6: \_\_\_\_\_  
River Miles: \_\_\_\_\_  
Percent of Stream Reach: \_\_\_\_\_  
Region Name: \_\_\_\_\_  
square miles: \_\_\_\_\_  
Subregion Name: \_\_\_\_\_  
square miles: \_\_\_\_\_  
Basin Name: \_\_\_\_\_  
square miles: \_\_\_\_\_  
Subbasin Name: \_\_\_\_\_  
square miles: \_\_\_\_\_  
Watershed Name: \_\_\_\_\_  
square miles: \_\_\_\_\_  
Subwatershed Name: \_\_\_\_\_  
acres: \_\_\_\_\_



**SELECTED SUMMARY DATA**

Record ID No: \_\_\_\_\_

- C1.** Wetland type: \_\_\_\_\_ **C2.** Polygon size (ac): \_\_\_\_\_ ; (hect): \_\_\_\_\_
- C3a.** Is the entire polygon an upland? (Yes; No): \_\_\_\_\_ If **No**, **C3b.** Does the polygon consist entirely of functional wetland types? (Yes; No): \_\_\_\_\_ **C3c.** Functional wetland (ac): \_\_\_\_\_ ; (hect): \_\_\_\_\_ **C3d.** Percent of total polygon: \_\_\_\_\_
- C4.** Does the polygon contain a defined streambank or channel? (Yes; No; NC): \_\_\_\_\_
- C5.** Channel length (mi): \_\_\_\_\_ ; (km): \_\_\_\_\_ **C6.** Number of river miles the polygon represents: (mi) \_\_\_\_\_ ; (km): \_\_\_\_\_
- C7a.** Average riparian zone width (ft): \_\_\_\_\_ ; (m): \_\_\_\_\_
- C7b.** Riparian zone width range (ft): \_\_\_\_\_ to \_\_\_\_\_ ; (m): \_\_\_\_\_ to \_\_\_\_\_
- C8.** Level 1 stream geomorphic characterization (NC = not collected): \_\_\_\_\_ Stream Type \_\_\_\_\_

**C9.** Habitat Types/Community Types

Classification Type Name	Phase	Approx. Percent of Polygon	Successional Stage or Comments

- C10a.** Is there evidence that part, or all, of the polygon has burned (e.g., charred wood, dead standing trees or shrubs, etc.)? (Yes; No; NC): \_\_\_\_\_ If **Yes**, **C10b.** Approx. how long ago? (0 to 5 years ago; more than 5 years ago): \_\_\_\_\_
- C10c.** Percent of polygon that was burned? (0-25%; 26-50%; 51-75%; 76-100%): \_\_\_\_\_
- C11.** Tree **AND** shrub removal by other than browsing: NA, NC, None (0-5%), Light (6-25%), Moderate (26-50%), Heavy (>50%): \_\_\_\_\_
- C12.** What percentage of the streambank length is adequately protected by deep binding rootmass? (More than 85%, 65-85%, 35-65%, Less than 35%): \_\_\_\_\_

- C13a.** Is there exposed soil surface (bare ground)? (Yes; No): \_\_\_\_\_ If **Yes**, complete **C13b-d**; if **No**, go to **C14**.
- C13b.** Percent (%) of the plot which is exposed soil surface (bare ground): \_\_\_\_\_
- C13c.** Of this, how much is due to natural processes: \_\_\_\_\_ Human-caused disturbance: \_\_\_\_\_ (must approx. 100%)
- C13d.** Within **each** category (natural and human-caused), how much resulted from the listed processes?
- |  |                       |   |                    |
|--|-----------------------|---|--------------------|
| <b>NATURAL PROCESSES</b> (must approx. 100%) |                       | <b>HUMAN-CAUSED PROCESSES</b> (must approx. 100%) |                    |
| _____ Erosional                              | _____ Type Dependent  | _____ Grazing                                     | _____ Construction |
| _____ Depositional                           | _____ Saline/Alkaline | _____ Timber Harvest                              | _____ Mining       |
| _____ Wildlife Use                           | _____ Other           | _____ Cultivation                                 | _____ Recreation   |
|  |                       | _____ Other                                       |                    |

Explain "Other": \_\_\_\_\_

- C14.** What percentage of the streambank length is structurally altered by human activity? (Less than 5%, 5-15%, 15-35%, More than 35%): \_\_\_\_\_
- C15.** What percentage of the rest of the polygon area is structurally altered by human activity? (Less than 5%, 5-15%, 15-25%, More than 25%): \_\_\_\_\_
- C16.** Is the stream channel incised? Choose the category that best describes the degree of incisement in the polygon: (Not incised, Slightly, Moderately, Severely): \_\_\_\_\_
- C17.** Polygon trend (Is the polygon: Improving; Degrading; Static; or Status Unknown?): \_\_\_\_\_

**VEGETATION DATA**

Record ID No: \_\_\_\_\_

List the main plant species (in terms of canopy cover) in each of the four lifeforms (trees, shrubs, graminoids, and ferns and allies). Also estimate the canopy cover of these species within the polygon, the duration (i.e., perennial, biennial, annual), and native or introduced. **NOTE:** It is not necessary to list herbaceous species with trace amounts of canopy cover.

**POLYGON SUMMARY**

Total number of species: \_\_\_\_\_ Number of native species: \_\_\_\_\_ Number of non-native species: \_\_\_\_\_  
Total canopy cover of all species: \_\_\_\_\_ (%) Total canopy cover of native species: \_\_\_\_\_ (%)

**D1. TREES**

**D1a.** Are trees present? (Yes; No): \_\_\_\_\_

6 Letter Code	Scientific Name (Common Name)	Canopy Cover (%)	Duration	Native/ Introduced
_____	_____	_____	_____	_____

**D1b.** Tree species by canopy cover (%) and percent age group (%)

SPECIES	COV (%)	SDLG/DEC	SPLG/DEC	POLE/DEC	MAT/DEC	DEAD
_____	_____	_____	_____	_____	_____	_____

SPECIES	D1c. Regen. Category	D1d. Age Group Dist. Category	D1e. Sdlg/Splg Browse Utilization
_____	_____	_____	_____

**D1f.** Total number of tree species: \_\_\_\_\_ **D1g.** Number of native tree species: \_\_\_\_\_

**D1h.** Number of non-native tree species: \_\_\_\_\_

**D1i.** Total canopy cover of all trees: \_\_\_\_\_ (%) **D1j.** Total canopy cover of native trees: \_\_\_\_\_ (%)

**D2. SHRUBS**

**D2a.** Are shrubs present? (Yes; No): \_\_\_\_\_

6 Letter Code	Scientific Name (Common Name)	Canopy Cover (%)	Duration	Native/ Introduced
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**D2b.** Shrub species canopy cover (%), age/size groups (%), and utilization

SPECIES	COV (%)	SDLG-SPLG/UTIL	MATURE/UTIL	DEC-DEAD/UTIL	<b>D2c.</b> Shrub Growth Form (N,F,U,C)
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**D2d.** Total number of shrub species: \_\_\_\_\_ **D2e.** Number of native shrub species: \_\_\_\_\_

**D2f.** Number of non-native shrub species: \_\_\_\_\_

**D2g.** Total canopy cover of all shrubs: \_\_\_\_\_ (%) **D2h.** Total canopy cover of native shrubs: \_\_\_\_\_ (%)

**D3. GRAMINOIDS**

6 Letter Code	Scientific Name (Common Name)	Canopy Cover (%)	Duration	Native/ Introduced

**D3a.** Total number of graminoid species: \_\_\_\_\_      **D3b.** Number of native graminoid species: \_\_\_\_\_

**D3c.** Number of non-native graminoid species: \_\_\_\_\_

**D3d.** Total canopy cover of all graminoids: \_\_\_\_\_ (%)      **D3e.** Total canopy cover of native graminoids: \_\_\_\_\_ (%)

**D4. FORBS/FERNS AND ALLIES**

6 Letter Code	Scientific Name (Common Name)	Canopy Cover (%)	Duration	Native/ Introduced	Forbs or Ferns/ Allies

**D4a.** Total number of forbs/ferns and allies species: \_\_\_\_\_      **D4b.** Number of native forbs/ferns and allies species: \_\_\_\_\_

**D4c.** Number of non-native forbs/ferns and allies species: \_\_\_\_\_

**D4d.** Total canopy cover of all forbs/ferns and allies: \_\_\_\_\_ (%)      **D4e.** Total canopy cover of native forbs/ferns and allies: \_\_\_\_\_ (%)

The following is a list of the major plant species (in terms of canopy cover) in the four lifeforms (trees, shrubs, graminoids, and forbs/ferns and allies). Also included is the PLANTS symbol, wetland status, and invasive plant species status.

**TREES**

6 Letter Code	Scientific Name (Common Name)	Canopy Cover (%)	PLANTS Symbol	Wetland Status	Invasive Plant (Y/N)
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**SHRUBS**

6 Letter Code	Scientific Name (Common Name)	Canopy Cover (%)	PLANTS Symbol	Wetland Status	Invasive Plant (Y/N)
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Record ID No: \_\_\_\_\_

**GRAMINOIDS**

6 Letter Code	Scientific Name (Common Name)	Canopy Cover (%)	PLANTS Symbol	Wetland Status	Invasive Plant (Y/N)
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**FORBS/FERNS AND ALLIES**

6 Letter Code	Scientific Name (Common Name)	Canopy Cover (%)	PLANTS Symbol	Wetland Status	Invasive Plant (Y/N)
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Total canopy coverage of all OBL and FACW plant species combined: \_\_\_\_\_ %

Range of canopy coverage for all OBL and FACW plant species: \_\_\_\_\_ % to \_\_\_\_\_ %

Total canopy coverage of all OBL, FACW, and FAC plant species combined: \_\_\_\_\_ %

Range of canopy coverage for all OBL, FACW, and FAC plant species: \_\_\_\_\_ % to \_\_\_\_\_ %

**LOTIC WETLAND ECOLOGICAL HEALTH ASSESSMENT SCORE SHEET**

Record ID No: \_\_\_\_\_

	Actual Score	Possible Score	Comment
1. Vegetative Cover of Floodplain and Streambanks (D1, D2, D3, D4)	_____	_____	_____
2a. Total Canopy Cover of Invasive Plant Species (Weeds) (Weed List Below)	_____	_____	_____
2b. Density Distribution Pattern of Invasive Plant Species (Weeds) (Weed List Below)	_____	_____	_____

Are invasive species present? (Yes; No; NC): \_\_\_\_\_

List Invasive Plant Species present, including Percent Canopy Cover and Density Distribution Class:

	Can.Cov.	Dens.	Dist.		Can.Cov.	Dens.	Dist.		Can.Cov.	Dens.	Dist.
black henbane:	_____	_____	_____	field scabiosa:	_____	_____	_____	prickly Russian thistle:	_____	_____	_____
broadleaved pepperweed:	_____	_____	_____	field sowthistle:	_____	_____	_____	purple loosestrife:	_____	_____	_____
bull thistle:	_____	_____	_____	flowering-rush:	_____	_____	_____	Russian knapweed:	_____	_____	_____
burningbush:	_____	_____	_____	Fuller's teasel:	_____	_____	_____	Russian olive:	_____	_____	_____
butter and eggs:	_____	_____	_____	houndstongue:	_____	_____	_____	saltcedar (tamarisk):	_____	_____	_____
Canada thistle:	_____	_____	_____	leafy spurge:	_____	_____	_____	Scotch cottonthistle:	_____	_____	_____
cheatgrass:	_____	_____	_____	lesser burdock:	_____	_____	_____	spotted knapweed:	_____	_____	_____
common tansy:	_____	_____	_____	medusahead:	_____	_____	_____	St. John's wort:	_____	_____	_____
Dalmatian toadflax:	_____	_____	_____	musk thistle:	_____	_____	_____	sulphur cinquefoil:	_____	_____	_____
diffuse knapweed:	_____	_____	_____	North Africa grass:	_____	_____	_____	tall buttercup:	_____	_____	_____
Dyer's woad:	_____	_____	_____	orange hawkweed:	_____	_____	_____	whitetop:	_____	_____	_____
field bindweed:	_____	_____	_____	oxeye daisy:	_____	_____	_____	yellow starthistle:	_____	_____	_____
field brome:	_____	_____	_____	paleyellow iris:	_____	_____	_____				

3. Disturbance-increaser Undesirable Herbaceous Species (D3, D4)	_____	_____	_____
4. Preferred Tree and Shrub Establishment and Regeneration (D1b, D2b)	_____	_____	_____
5a. Browse Util. of Preferred Trees and Shrubs (D1b, D2b)	_____	_____	_____
5b. Woody Veg. Removal other than Browsing (C11)	_____	_____	_____
6. Standing Decadent and Dead Woody Material (D1b, D2b)	_____	_____	_____
<b>Vegetation Subtotal:</b>	_____	_____	_____
7. Streambank Root Mass Protection (C12)	_____	_____	_____
8. Human-Caused Bare Ground (C13c)	_____	_____	_____
9. Streambank Structurally Altered by Human Activity (C14)	_____	_____	_____
10. Human Physical Alteration to the Rest of the Polygon (C15)	_____	_____	_____
11. Stream Channel Incisement (Vertical Stability) (C16)	_____	_____	_____
<b>Soil / Hydrology Subtotal:</b>	_____	_____	_____

**Overall Polygon Total:** \_\_\_\_\_

**RATING CALCULATION**

(Actual Score/Possible Score) X 100 = Rating Percent

Descriptive Category

Vegetation Rating: _____ / _____ x 100 = _____	_____
Soil / Hydrology: _____ / _____ x 100 = _____	_____
<b>OVERALL:</b> _____ / _____ x 100 = _____	_____

Rating Percent Range	Descriptive Category
80-100	Proper Functioning Condition (Healthy)
60-79	Functional At Risk (Healthy, but with Problems)
<60	Nonfunctional (Unhealthy)

12. Polygon trend (Is the polygon: Improving; Degrading; Static; or Status Unknown?): \_\_\_\_\_

13. Comments and Observations:

Record ID No: \_\_\_\_\_

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**ADDITIONAL MANAGEMENT CONCERNS**

The following items do not contribute to a site's score. Rather they help to quantify inherent physical site characteristics or assess the direction of change on a site. These data can be useful for planning future site management.

- 14a. Streambank rock volume: \_\_\_\_\_
- 14b. Streambank rock size: \_\_\_\_\_
- 15. Vegetation use by animals: \_\_\_\_\_
- 16. Susceptibility of parent material to erosion: \_\_\_\_\_
- 17. Percent of streambank accessible to livestock: \_\_\_\_\_

- 18. Break down the polygon area into the land uses listed (must total to approx. 100%):
  - No Land Use Apparent: \_\_\_\_\_
  - Turf Grass Lawn): \_\_\_\_\_
  - Tame Pasture (Grazing): \_\_\_\_\_
  - Native Pasture (Grazing): \_\_\_\_\_
  - Recreation (ATV Paths, Campsites, etc.): \_\_\_\_\_
  - Development (Buildings, Corrals, Paved Lots, etc.): \_\_\_\_\_
  - Tilled Cropping: \_\_\_\_\_
  - Perennial Forage (e.g., Alfalfa Hayland): \_\_\_\_\_
  - Roads: \_\_\_\_\_
  - Logging: \_\_\_\_\_
  - Mining: \_\_\_\_\_
  - Railroads: \_\_\_\_\_
  - Other: \_\_\_\_\_

- 19. Break down the area adjacent to the polygon into the land uses listed (must total to approx. 100%):
  - No Land Use Apparent: \_\_\_\_\_
  - Turf Grass (Lawn): \_\_\_\_\_
  - Tame Pasture (Grazing): \_\_\_\_\_
  - Native Pasture (Grazing): \_\_\_\_\_
  - Recreation (ATV Paths, Campsites, etc.): \_\_\_\_\_
  - Development (Buildings, Corrals, Paved Lots, etc.): \_\_\_\_\_
  - Tilled Cropping: \_\_\_\_\_
  - Perennial Forage (e.g., Alfalfa Hayland): \_\_\_\_\_
  - Roads: \_\_\_\_\_
  - Logging: \_\_\_\_\_
  - Mining: \_\_\_\_\_
  - Railroads: \_\_\_\_\_
  - Other: \_\_\_\_\_

Description of Other Usage Noted: \_\_\_\_\_  
\_\_\_\_\_

Description of Other Usage Noted: \_\_\_\_\_  
\_\_\_\_\_



**PHOTOGRAPH DATA**

Photographer(s): \_\_\_\_\_

**E1. Identification of photos taken at the *Upstream End of Polygon:***

Photo Location:                      Deg    Min    Sec    N/S    Decimal                      Deg    Min    Sec    E/W    Decimal  
 Lat: \_\_\_\_\_                      Lon: \_\_\_\_\_

Photo Direction (degrees)(*Looking Upstream*): \_\_\_\_\_

Photo nos.: (*Looking Upstream*): \_\_\_\_\_

Photo Description (If necessary): (*Looking Upstream*):  
 \_\_\_\_\_

Photo Direction (degrees)(*Looking Downstream*): \_\_\_\_\_

Photo nos.: (*Looking Downstream*): \_\_\_\_\_

Photo Description (If necessary): (*Looking Downstream*):  
 \_\_\_\_\_

**E2. Identification of photos taken at *Downstream End of Polygon:***

Photo Location:                      Deg    Min    Sec    N/S    Decimal                      Deg    Min    Sec    E/W    Decimal  
 Lat: \_\_\_\_\_                      Lon: \_\_\_\_\_

Photo Direction (degrees)(*Looking Upstream*): \_\_\_\_\_

Photo nos.: (*Looking Upstream*): \_\_\_\_\_

Photo Description (If necessary): (*Looking Upstream*):  
 \_\_\_\_\_

Photo Direction (degrees)(*Looking Downstream*): \_\_\_\_\_

Photo nos.: (*Looking Downstream*): \_\_\_\_\_

Photo Description (If necessary): (*Looking Downstream*):  
 \_\_\_\_\_

**E3. Additional Locations: (Lat/Lon DMS and Decimal Degrees [WGS 84]; Observer Initial and Waypoint Number)**

Observer  
Initial  
& WPT

**Location #1:**                      Lat: \_\_\_\_\_                      Lon: \_\_\_\_\_

Photo Direction at **Location #1** (degrees): \_\_\_\_\_

Photo Numbers: \_\_\_\_\_

Photo Description (If necessary): (**Location #1**): \_\_\_\_\_

Photo Direction at **Location #1** (degrees): \_\_\_\_\_

Photo Numbers: \_\_\_\_\_

Photo Description (If necessary): (**Location #1**): \_\_\_\_\_

Photo Direction at **Location #1** (degrees): \_\_\_\_\_

Photo Numbers: \_\_\_\_\_

Photo Description (If necessary): (**Location #1**): \_\_\_\_\_

Photo Direction at **Location #1** (degrees): \_\_\_\_\_

Photo Numbers: \_\_\_\_\_

Photo Description (If necessary): (**Location #1**): \_\_\_\_\_

**Location #2:** Lat: \_\_\_\_\_ Lon: \_\_\_\_\_

Photo Direction at **Location #2** (degrees): \_\_\_\_\_

Photo Numbers: \_\_\_\_\_

Photo Description (If necessary): (**Location #2**): \_\_\_\_\_

Photo Direction at **Location #2** (degrees): \_\_\_\_\_

Photo Numbers: \_\_\_\_\_

Photo Description (If necessary): (**Location #2**): \_\_\_\_\_

Photo Direction at **Location #2** (degrees): \_\_\_\_\_

Photo Numbers: \_\_\_\_\_

Photo Description (If necessary): (**Location #2**): \_\_\_\_\_

Photo Direction at **Location #2** (degrees): \_\_\_\_\_

Photo Numbers: \_\_\_\_\_

Photo Description (If necessary): (**Location #2**): \_\_\_\_\_

**Location #3:** Lat: \_\_\_\_\_ Lon: \_\_\_\_\_

Photo Direction at **Location #3** (degrees): \_\_\_\_\_

Photo Numbers: \_\_\_\_\_

Photo Description (If necessary): (**Location #3**): \_\_\_\_\_

Photo Direction at **Location #3** (degrees): \_\_\_\_\_

Photo Numbers: \_\_\_\_\_

Photo Description (If necessary): (**Location #3**): \_\_\_\_\_

Photo Direction at **Location #3** (degrees): \_\_\_\_\_

Photo Numbers: \_\_\_\_\_

Photo Description (If necessary): (**Location #3**): \_\_\_\_\_

Photo Direction at **Location #3** (degrees): \_\_\_\_\_

Photo Numbers: \_\_\_\_\_

Photo Description (If necessary): (**Location #3**): \_\_\_\_\_

**Location #4:** Lat: \_\_\_\_\_ Lon: \_\_\_\_\_

Photo Direction at **Location #4** (degrees): \_\_\_\_\_

Photo Numbers: \_\_\_\_\_

Photo Description (If necessary): (**Location #4**): \_\_\_\_\_

Photo Direction at **Location #4** (degrees): \_\_\_\_\_

Photo Numbers: \_\_\_\_\_

Photo Description (If necessary): (**Location #4**): \_\_\_\_\_

Photo Direction at **Location #4** (degrees): \_\_\_\_\_

Photo Numbers: \_\_\_\_\_

Photo Description (If necessary): (**Location #4**): \_\_\_\_\_

Photo Direction at **Location #4** (degrees): \_\_\_\_\_

Photo Numbers: \_\_\_\_\_

Photo Description (If necessary): (**Location #4**): \_\_\_\_\_

**Location #5:** Lat: \_\_\_\_\_ Lon: \_\_\_\_\_

Photo Direction at **Location #5** (degrees): \_\_\_\_\_

Photo Numbers: \_\_\_\_\_

Photo Description (If necessary): (**Location #5**): \_\_\_\_\_

Photo Direction at **Location #5** (degrees): \_\_\_\_\_

Photo Numbers: \_\_\_\_\_

Photo Description (If necessary): (**Location #5**): \_\_\_\_\_

Photo Direction at **Location #5** (degrees): \_\_\_\_\_

Photo Numbers: \_\_\_\_\_

Photo Description (If necessary): (**Location #5**): \_\_\_\_\_

Photo Direction at **Location #5** (degrees): \_\_\_\_\_

Photo Numbers: \_\_\_\_\_

Photo Description (If necessary): (**Location #5**): \_\_\_\_\_

**Location #6:** Lat: \_\_\_\_\_ Lon: \_\_\_\_\_

Photo Direction at **Location #6** (degrees): \_\_\_\_\_

Photo Numbers: \_\_\_\_\_

Photo Description (If necessary): (**Location #6**): \_\_\_\_\_

Photo Direction at **Location #6** (degrees): \_\_\_\_\_

Photo Numbers: \_\_\_\_\_

Photo Description (If necessary): (**Location #6**): \_\_\_\_\_

Photo Direction at **Location #6** (degrees): \_\_\_\_\_

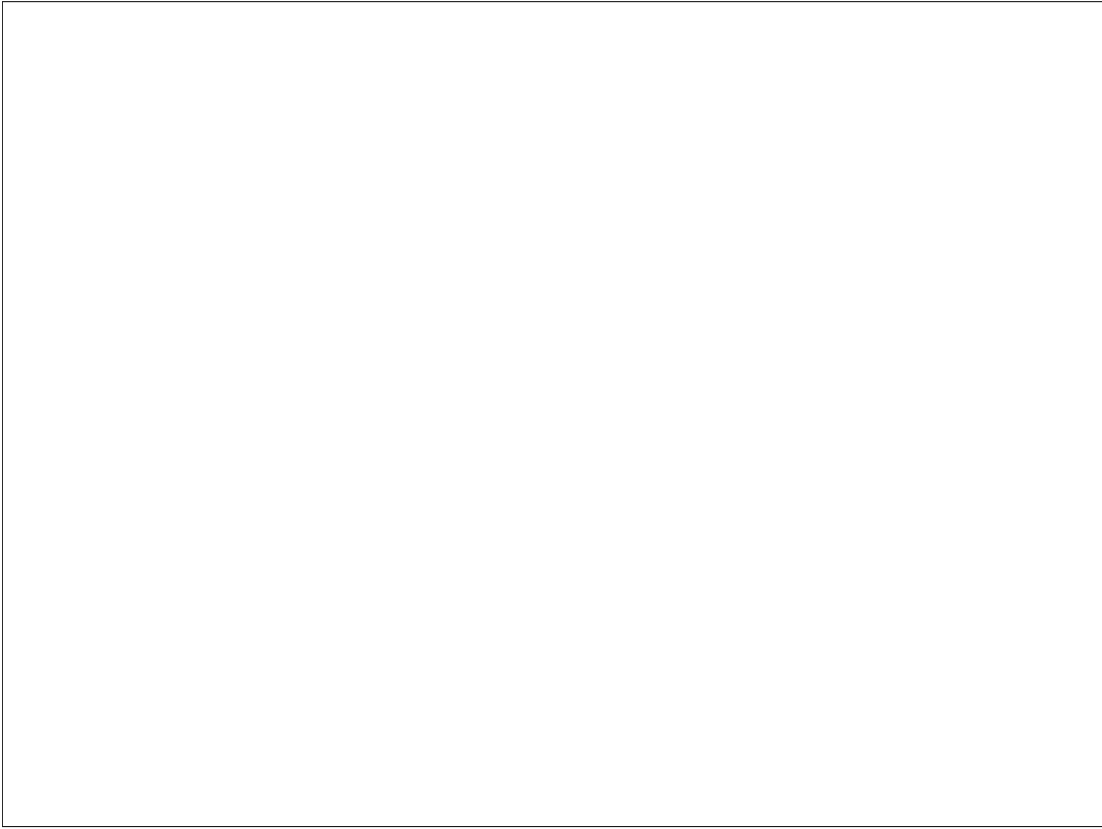
Photo Numbers: \_\_\_\_\_

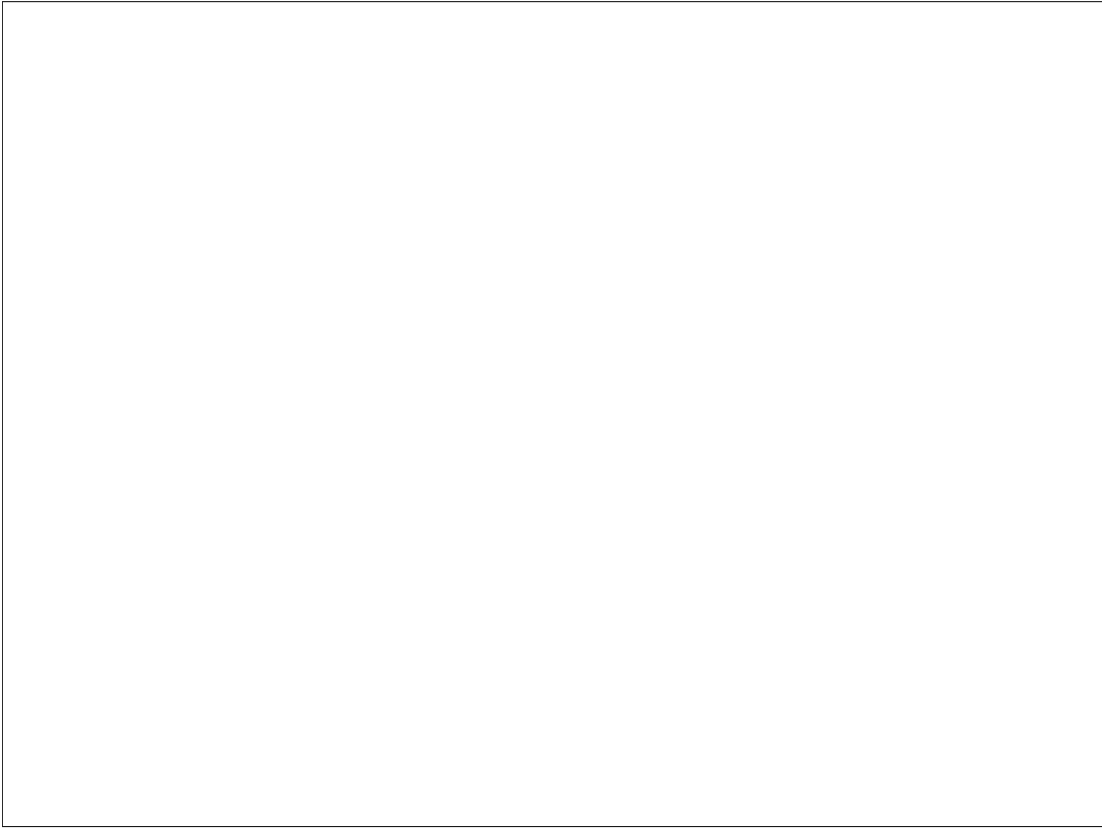
Photo Description (If necessary): (**Location #6**): \_\_\_\_\_

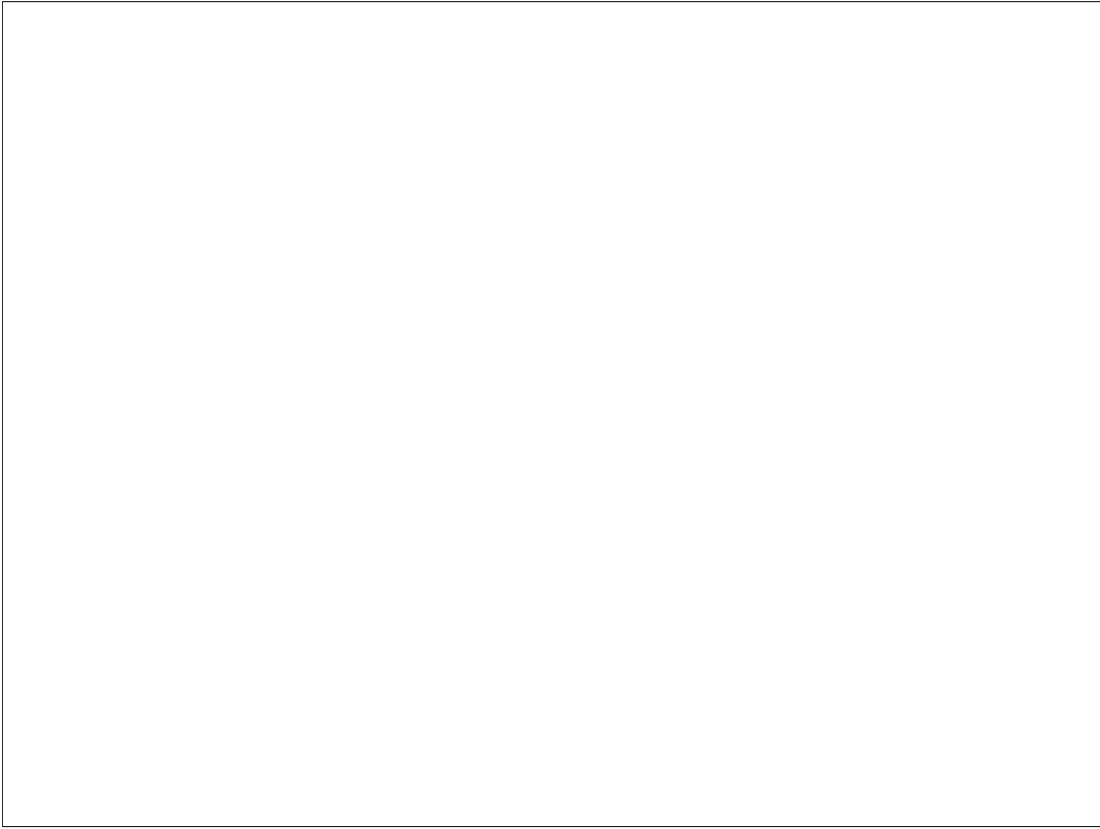
Photo Direction at **Location #6** (degrees): \_\_\_\_\_

Photo Numbers: \_\_\_\_\_

Photo Description (If necessary): (**Location #6**): \_\_\_\_\_



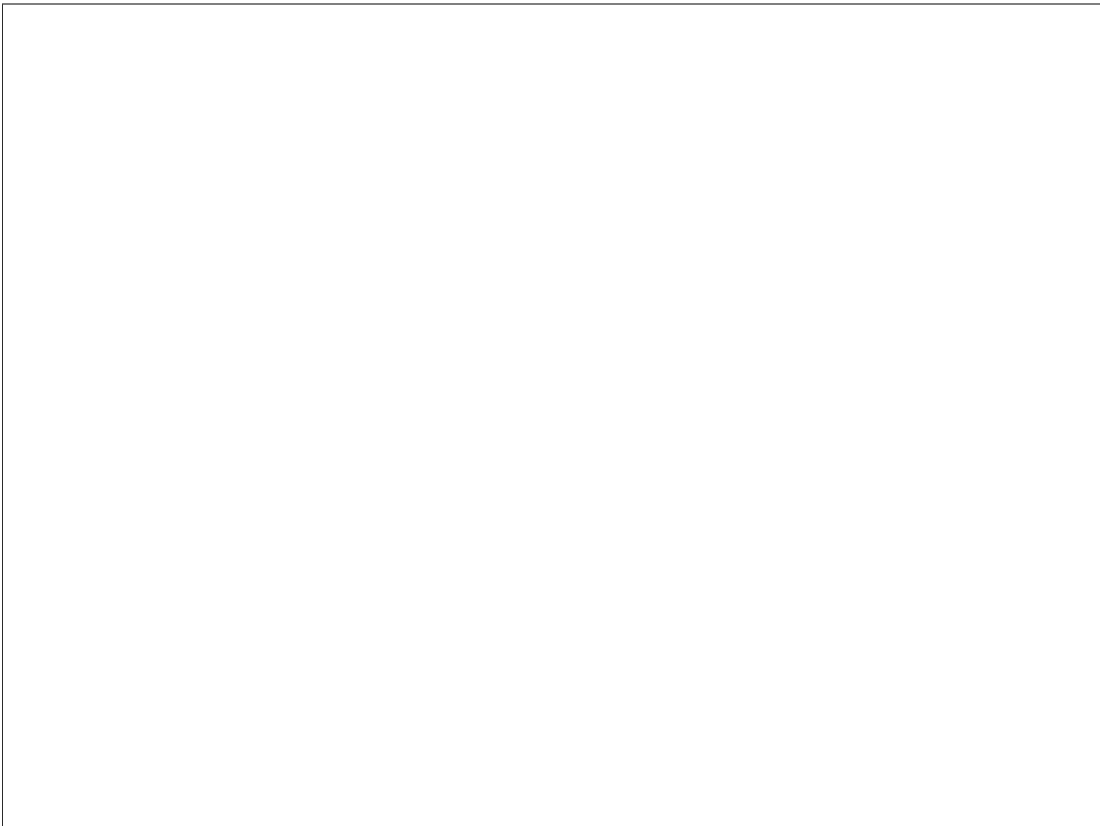




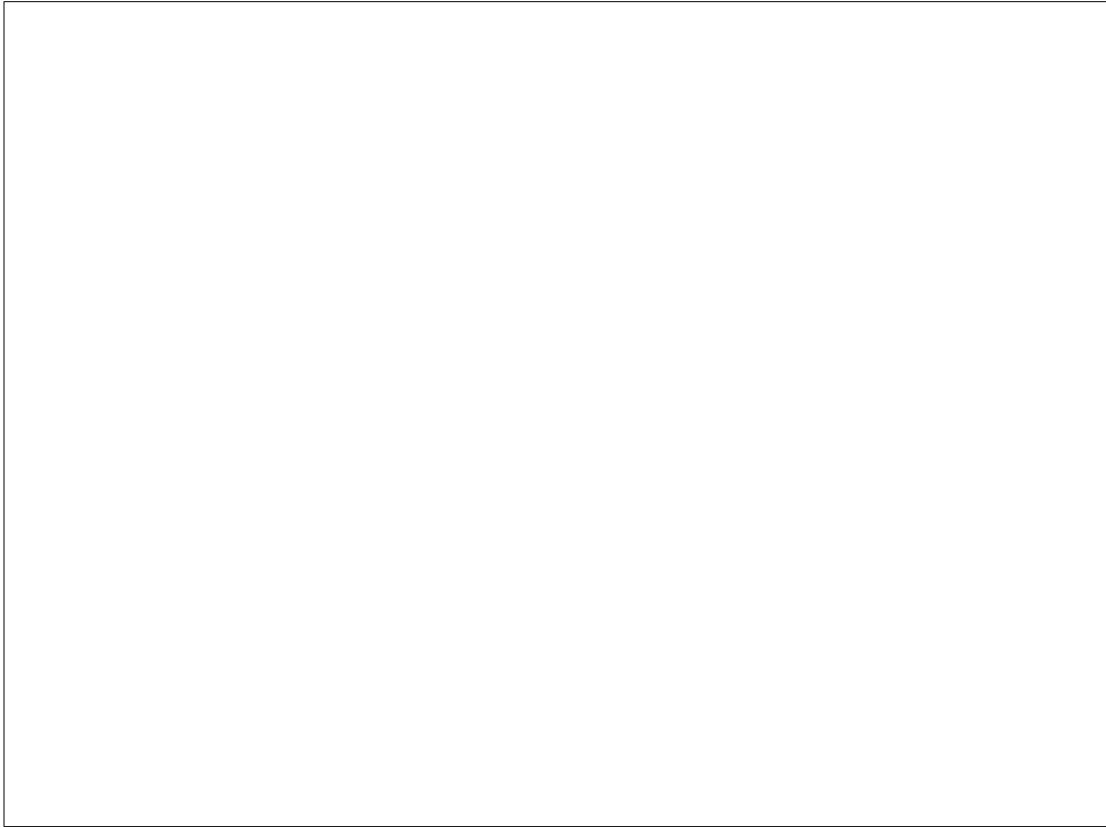




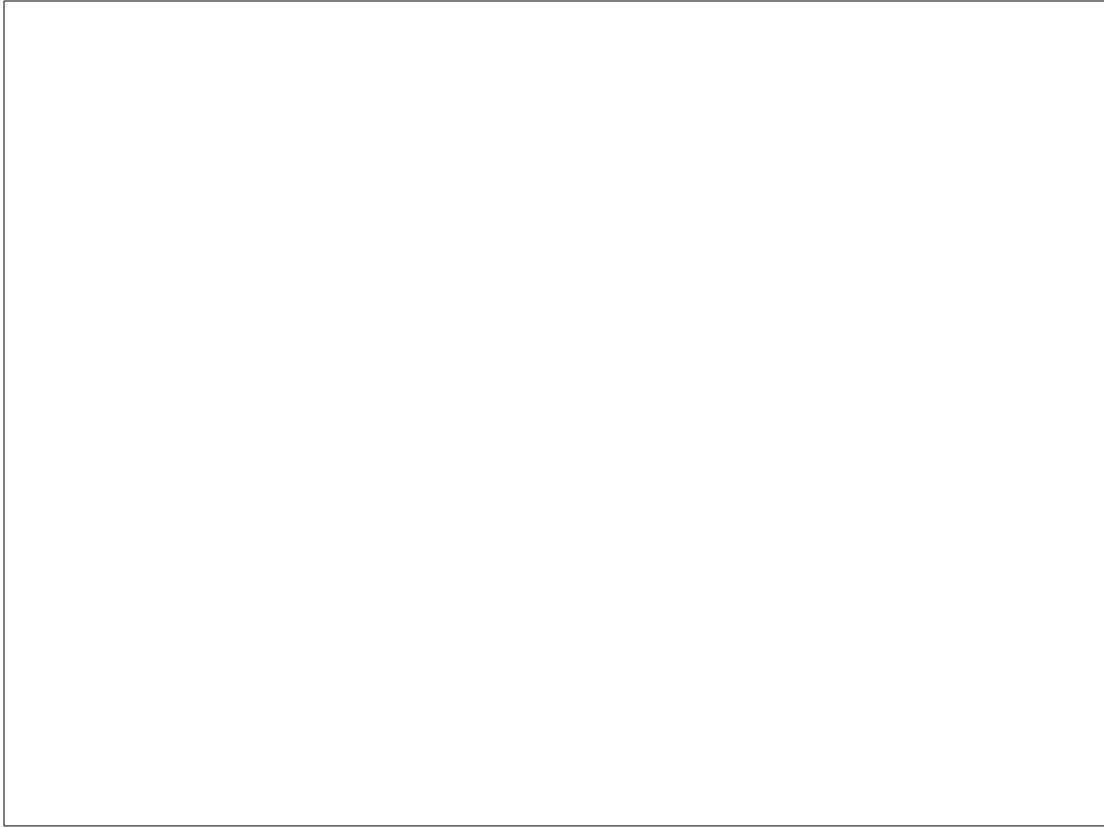


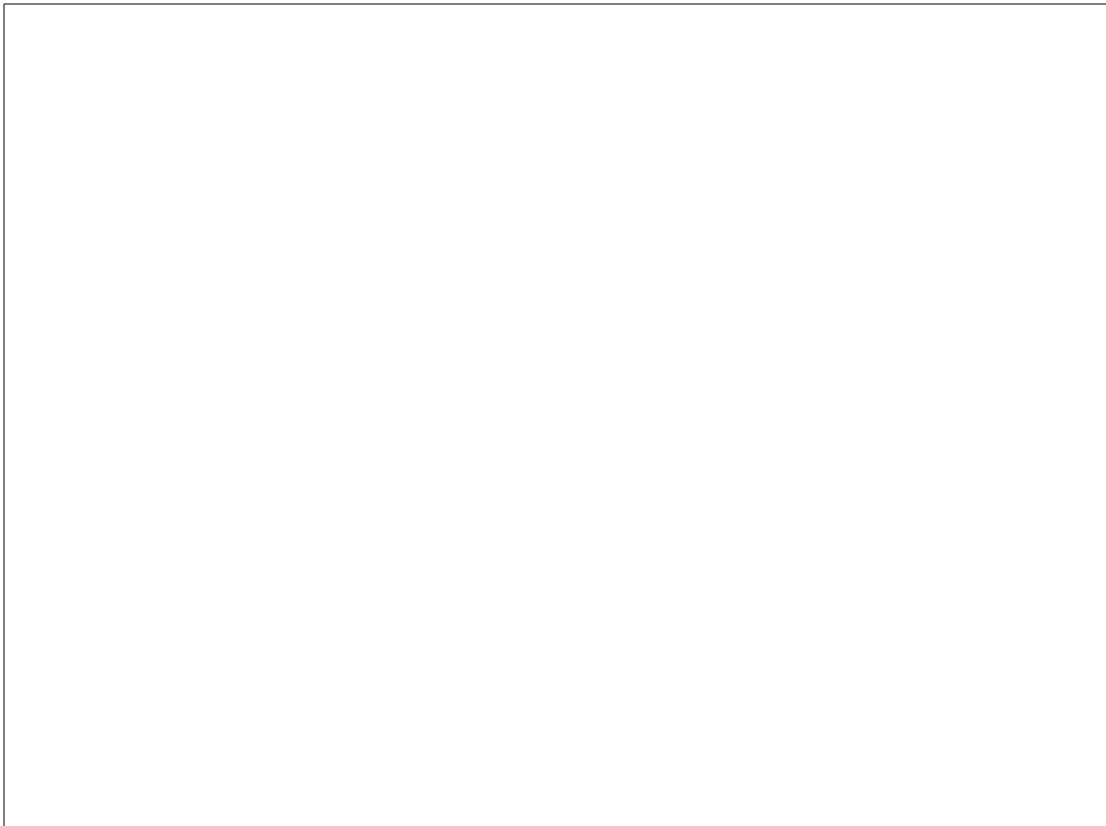
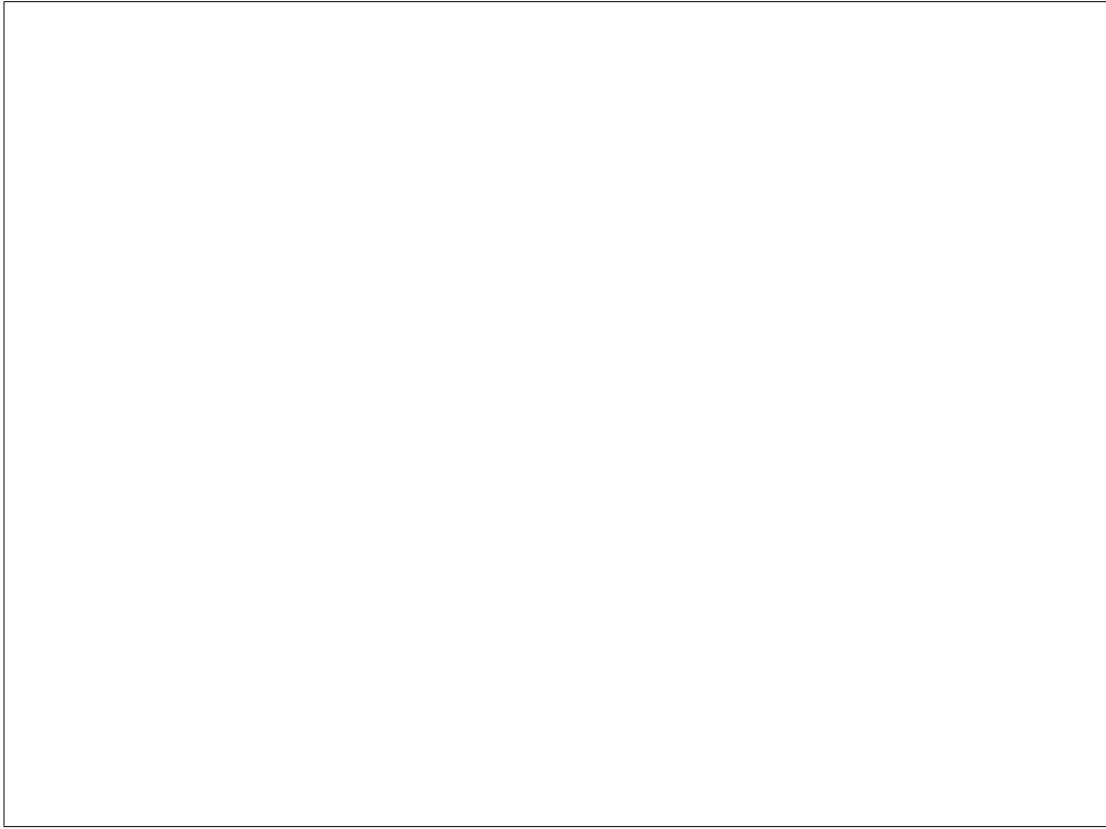


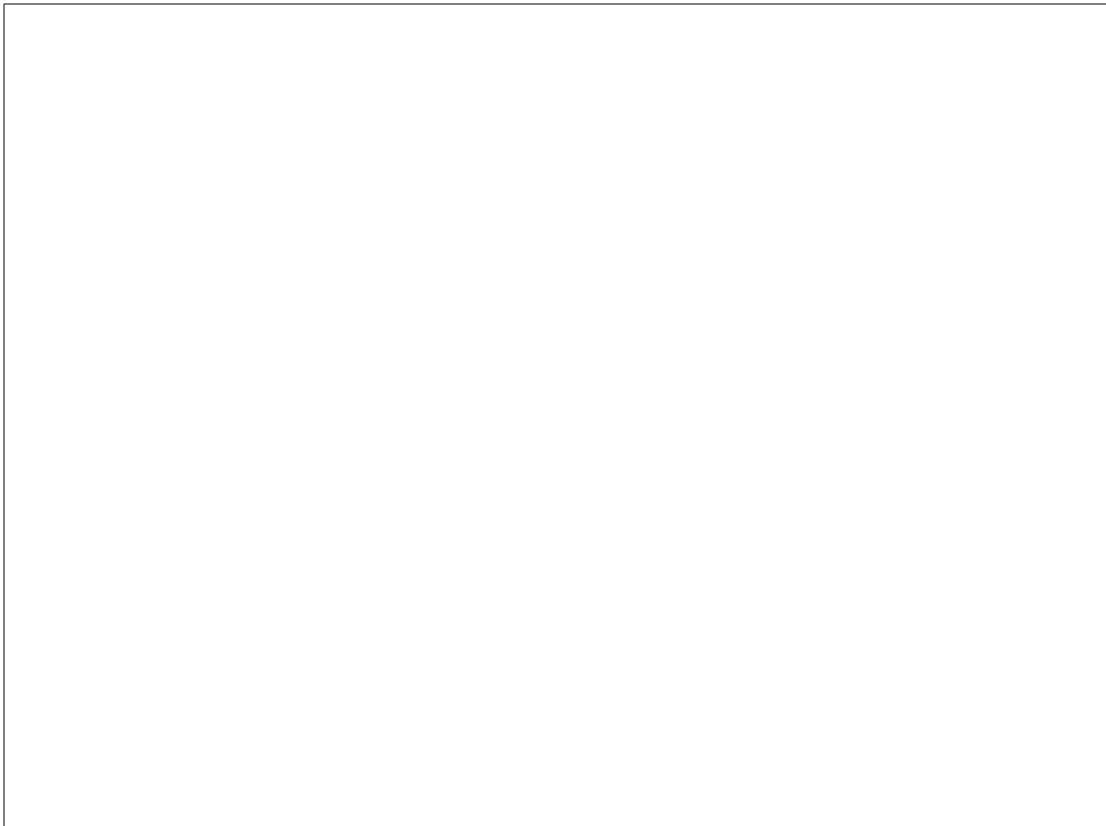
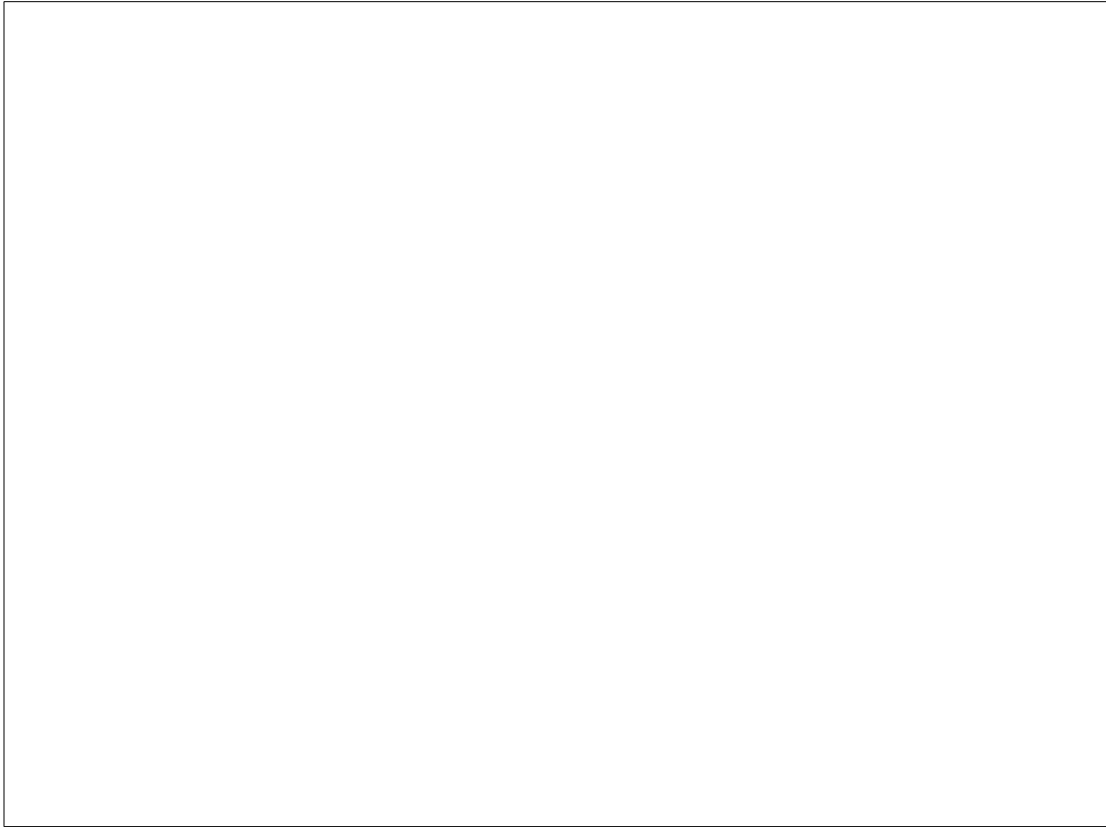
Record ID No: \_\_\_\_\_

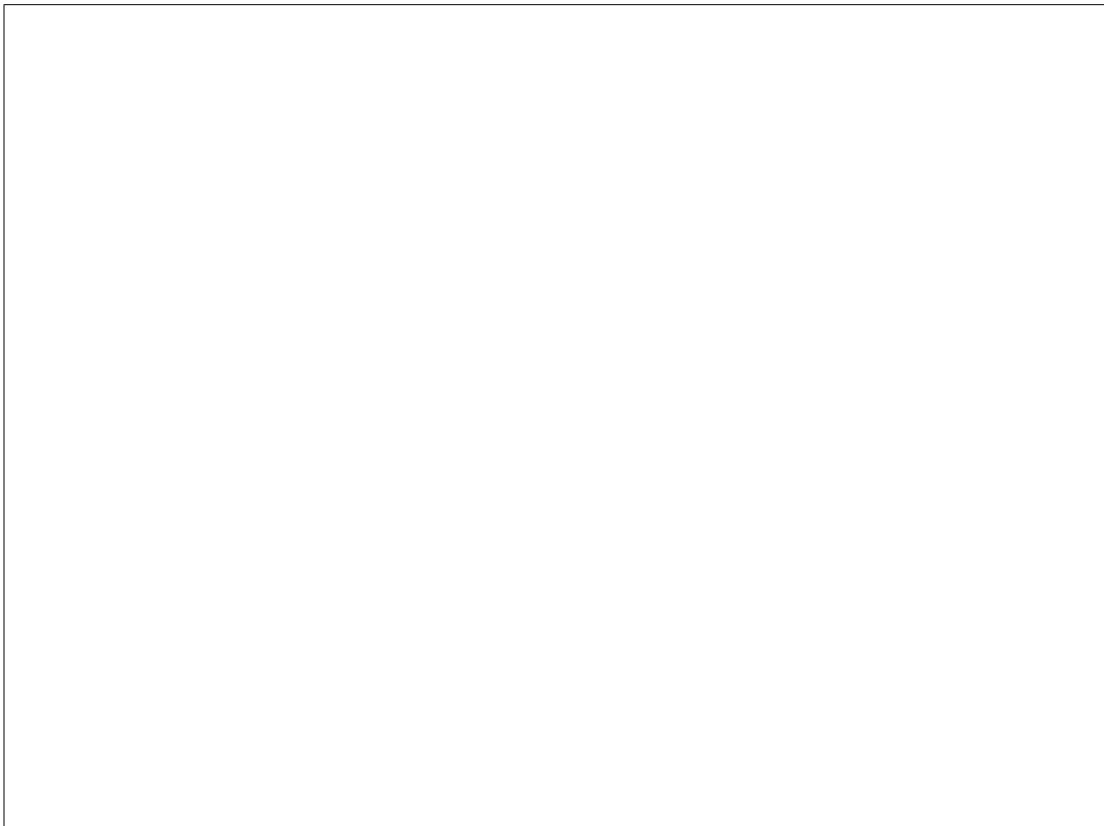
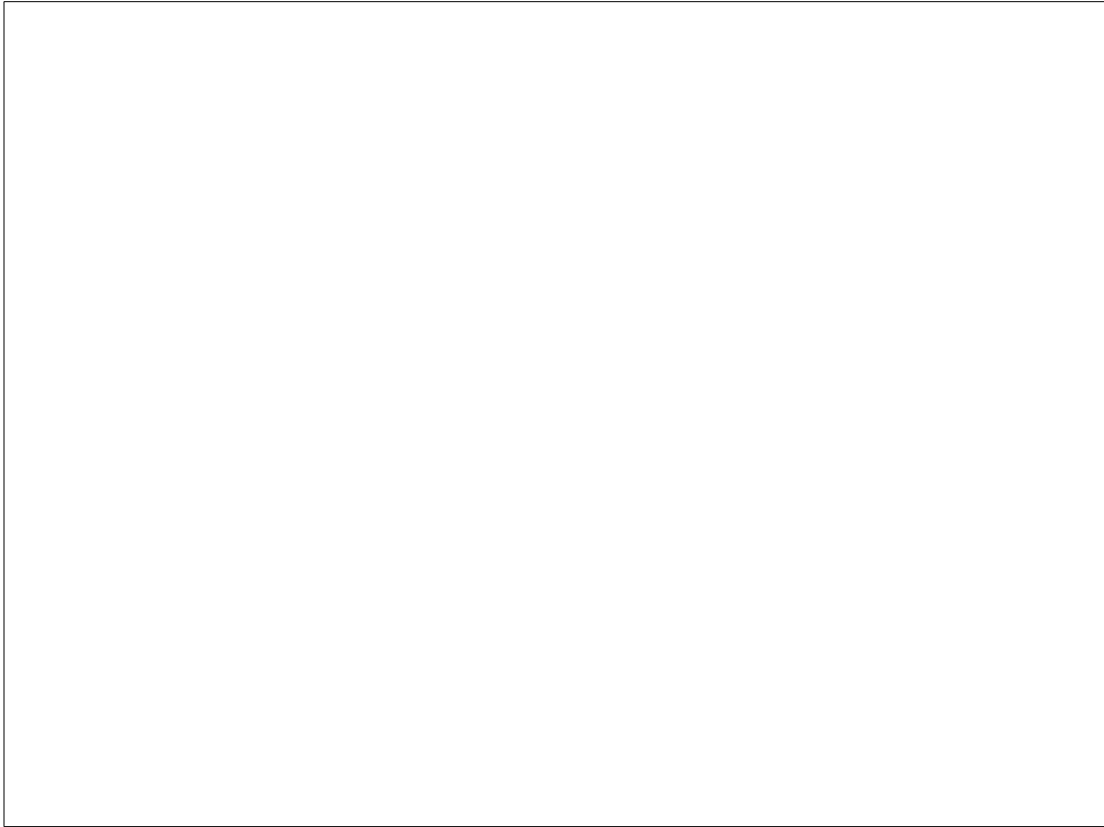


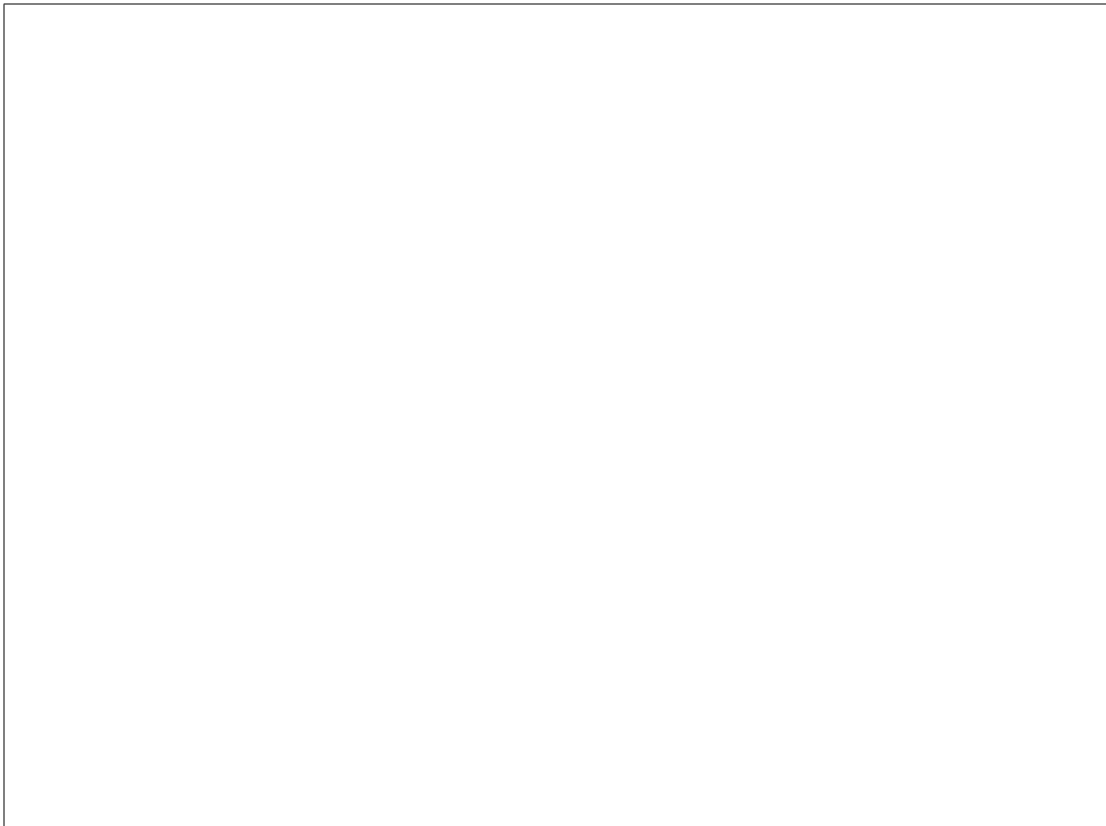
Record ID No: \_\_\_\_\_













Record ID No: \_\_\_\_\_

A large, empty rectangular box with a thin black border, occupying the upper half of the page. It is intended for data entry or a drawing.A second large, empty rectangular box with a thin black border, identical in size and style to the one above, occupying the lower half of the page. It is also intended for data entry or a drawing.







Record ID No: \_\_\_\_\_



