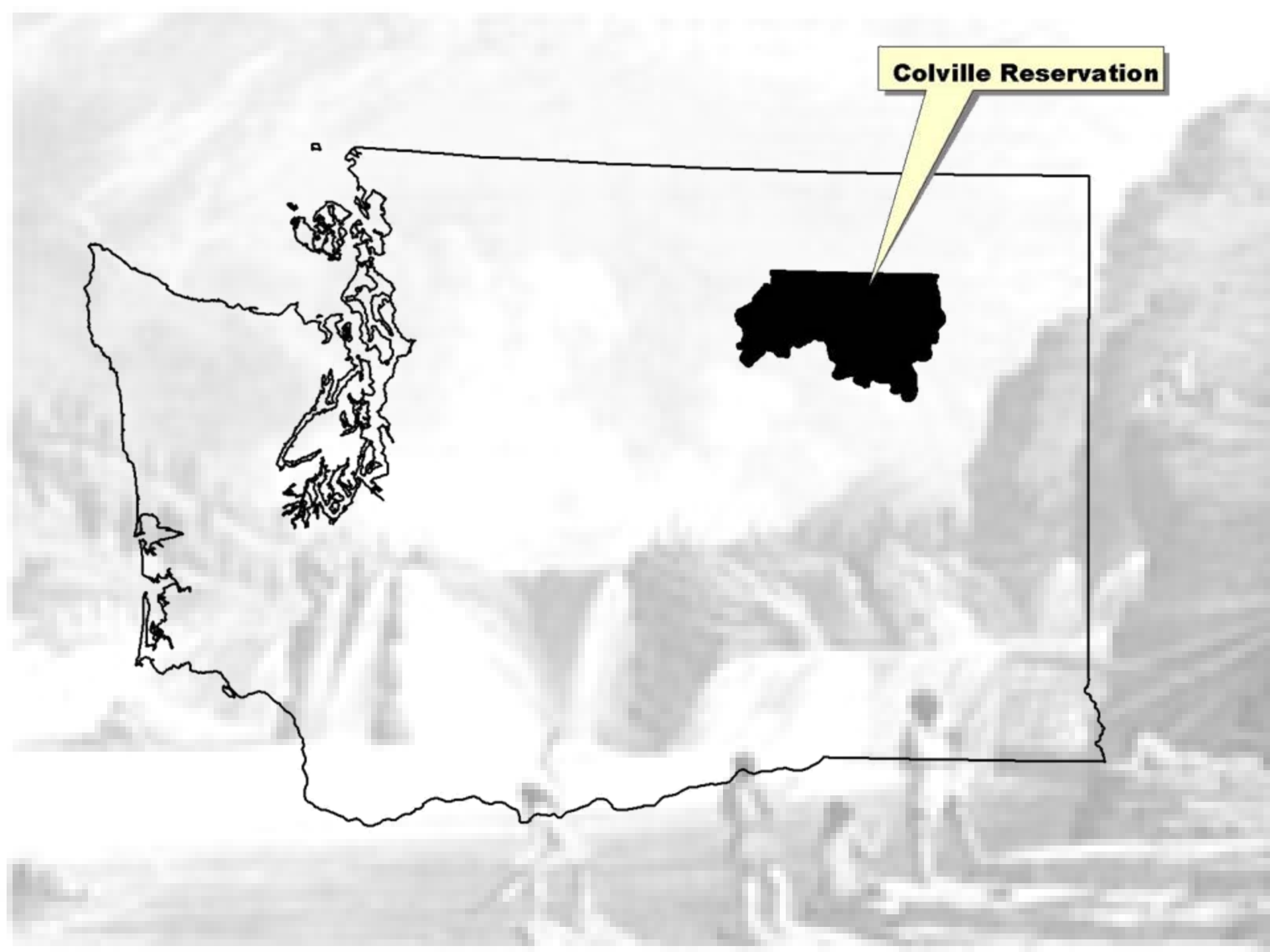
Colville Confederated Tribes
Wildlife Mitigation Project

Presented By:

Richard Whitney
Acting Project Manager


Colville Reservation

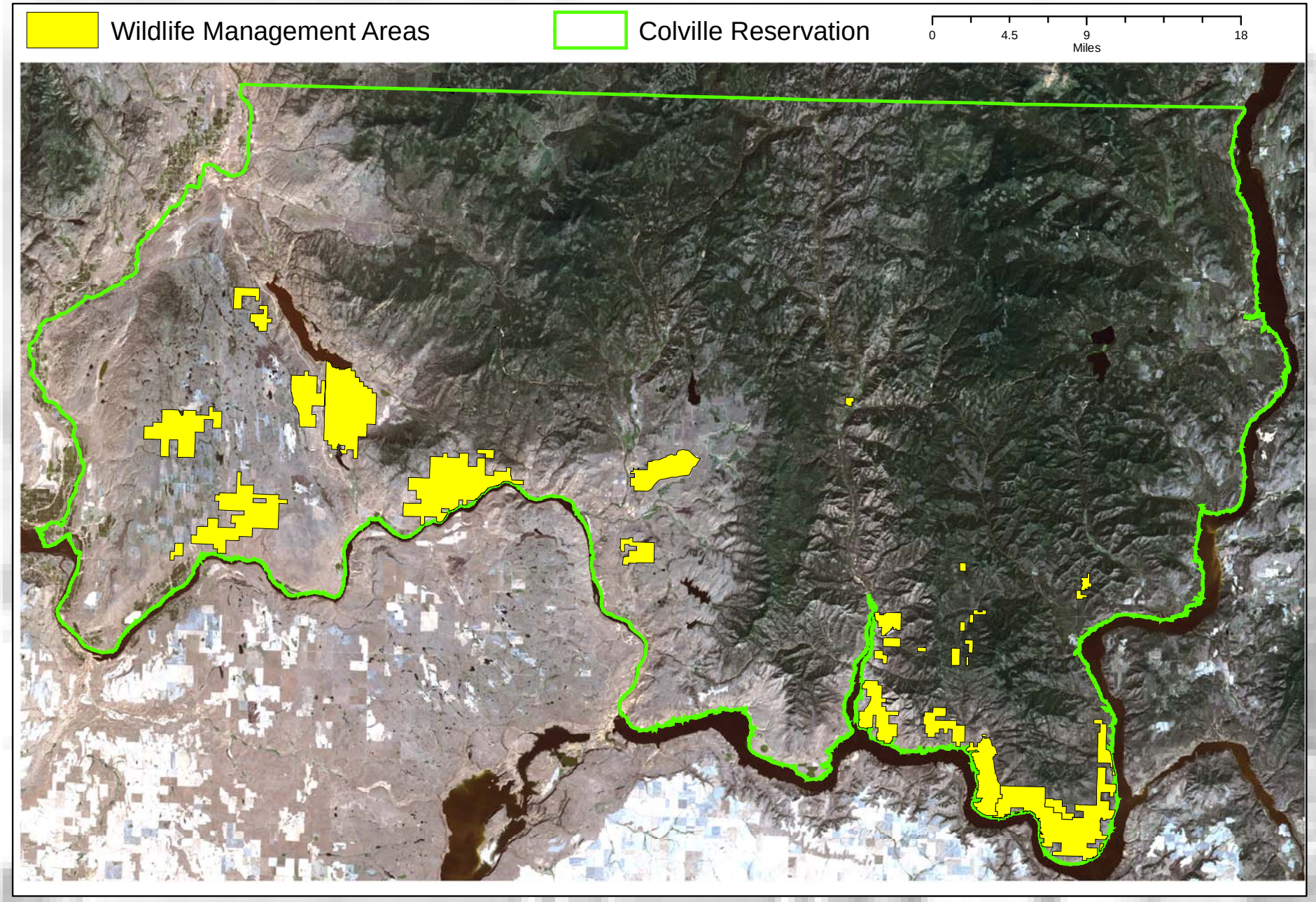
Subbasins

- Upper Columbia
- San Poil
- Lake Rufus Woods

Taken From
Intermountain Province
Subbasin Plan
(May 2004)

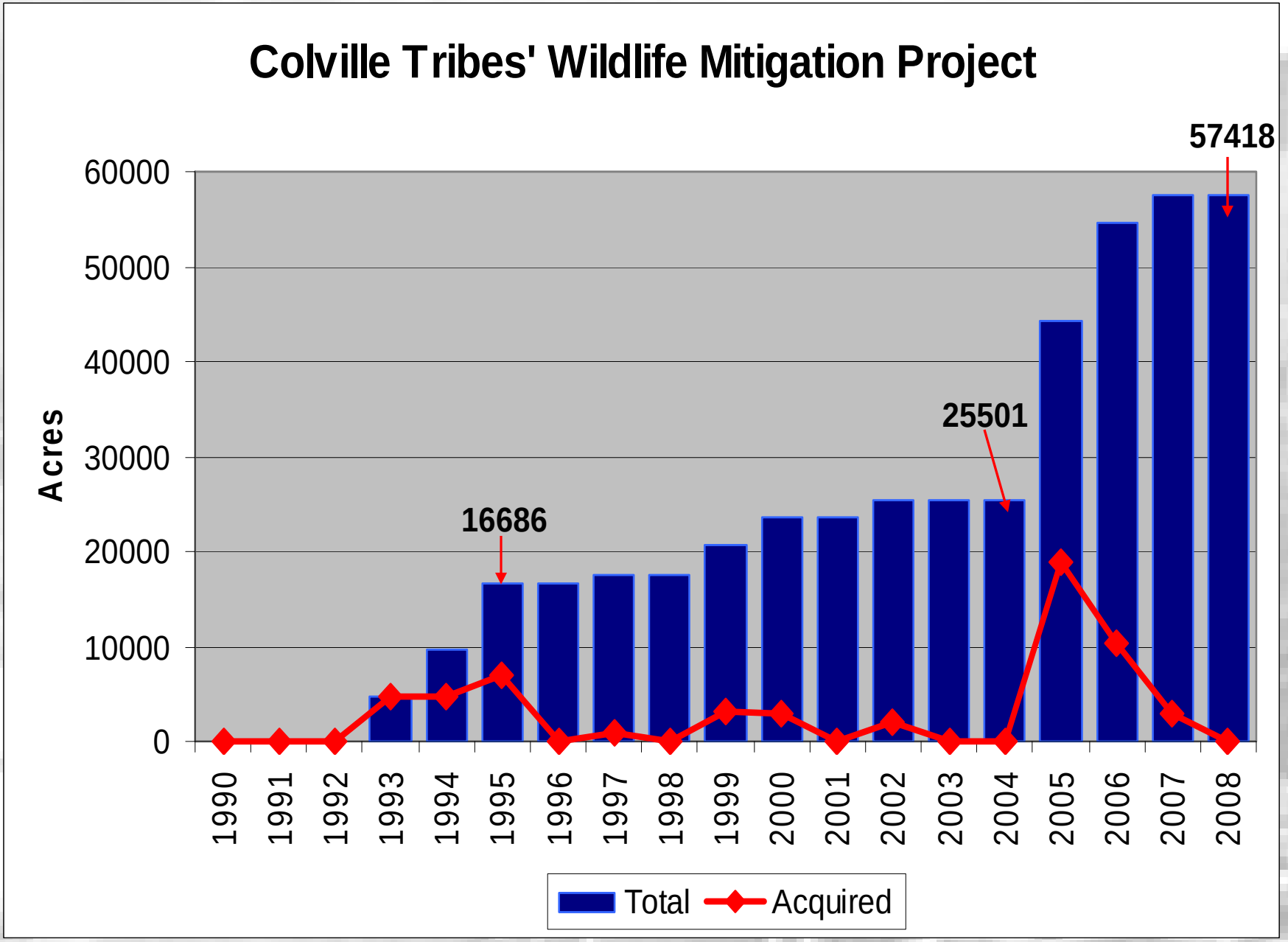
http://www.nwcouncil.org/fw/subbasinplanning/admin/level2/intermtn/plan/01_overview%20of%20plan.pdf

Figure 1.1. Map of the Intermountain Province. Inset map shows the location of the IMP in relation to the Columbia River Basin, including that portion in Canada.


Wildlife Management Areas
Colville Reservation
0
4.5
9
18
Miles

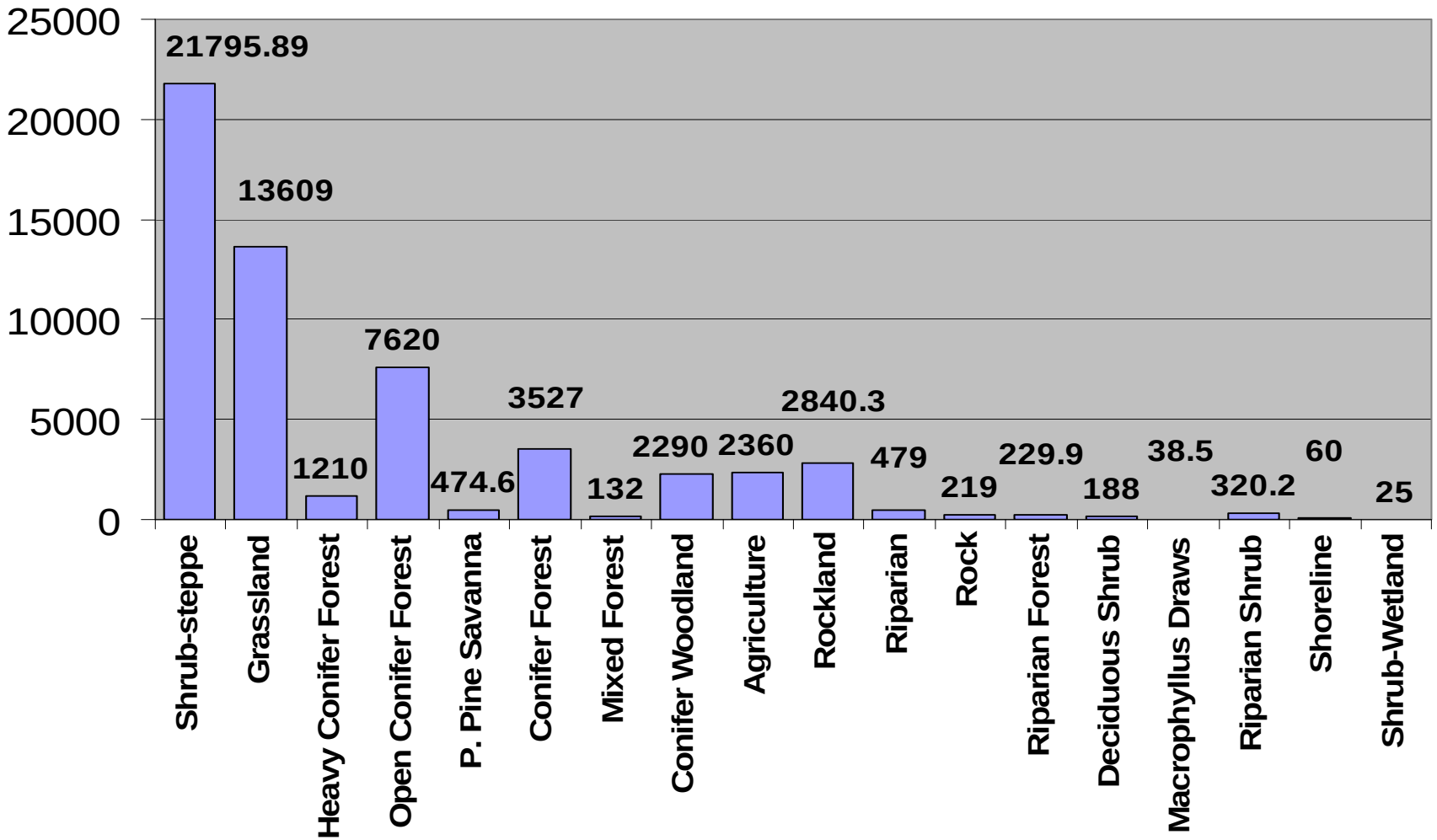
Project Stats

- **17 Employees** **(f/t, seasonal, or p/t shared)**
- **2 Divisions / 4 Field Crews** **(East and West side)**
- **57,418 acres of wildlife habitat**
- **12+ Wildlife Management Areas**
- **288 miles of boundary fence**


Colville Tribes' Wildlife Mitigation Project
57418
25501
16686
Acres
60000
50000
40000
30000
20000
10000
0
1990
1991
1992
1993
1994
1995
1996
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
Total
Acquired

Colville Tribes' Wildlife Mitigation Project

Acres per Habitat Type



Reorganization

- **Acting - Project Manager**
- **Hiring new Invasive Species Crews**
- **Adding p/t Natural Resource Enforcement**

Short-term Project Goals

- **Complete boundary fence**
- **Limit livestock trespass**
- **Combat Invasive Species**
- **Complete Acquisitions of baseline Protection Credits**
- **Complete Land Trades**

Long-term Goals

- **Protect/recover wildlife habitat for perpetuity**
- **Restore wildlife populations affected by hydropower construction and operation**
- **Restore Cultural opportunities**

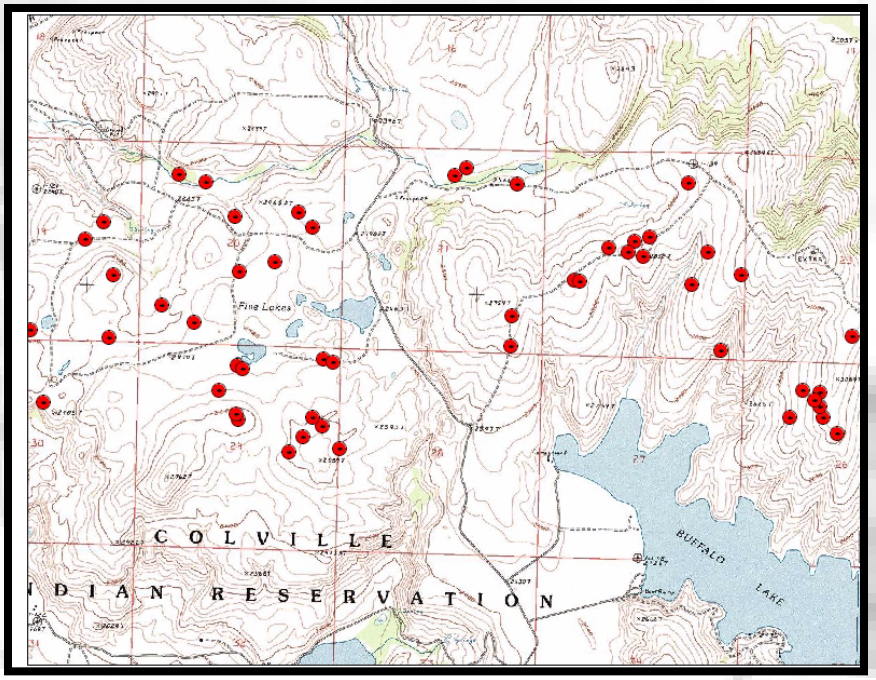
Management Plans

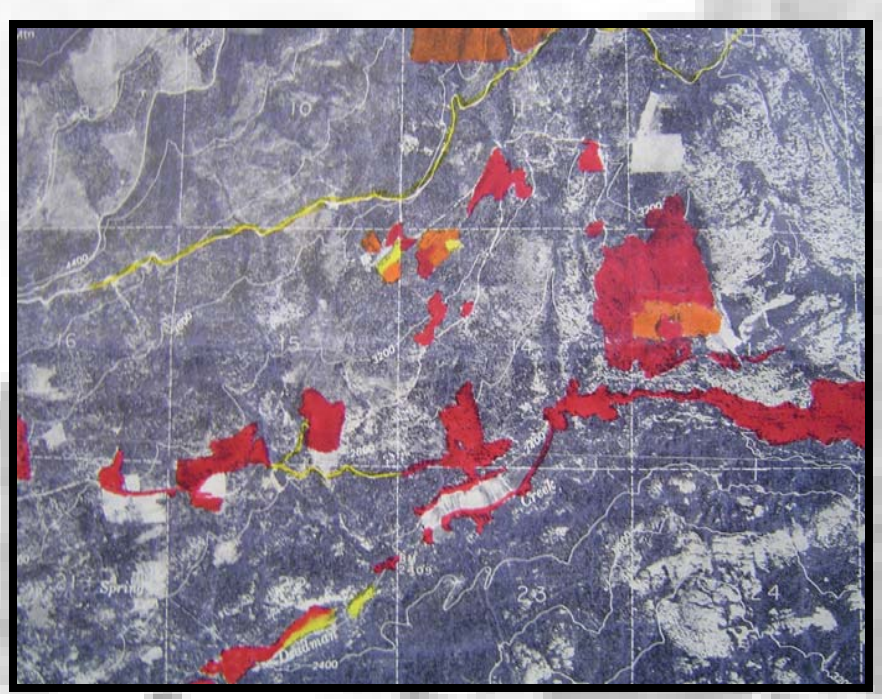
- **Hellsgate Long Term Mgt Plan (1993)**
- **Hellsgate Big Game Winter Range (1999)**
- **Boot Mountain MA (2007)**
- **Tumwater Basin MA (2007)**
- **White Lakes MA (2007)**
- **Rattlesnake Canyon MA (2008)**
- **Redthunder MA (2008)**

Invasive Species Monitoring

- **Needed a way to identify where invasive species are and their density at an appropriate scale**
- **An accounting method of controlled areas**
- **Also a method that will allow us to plan and monitor treatments for subsequent years**

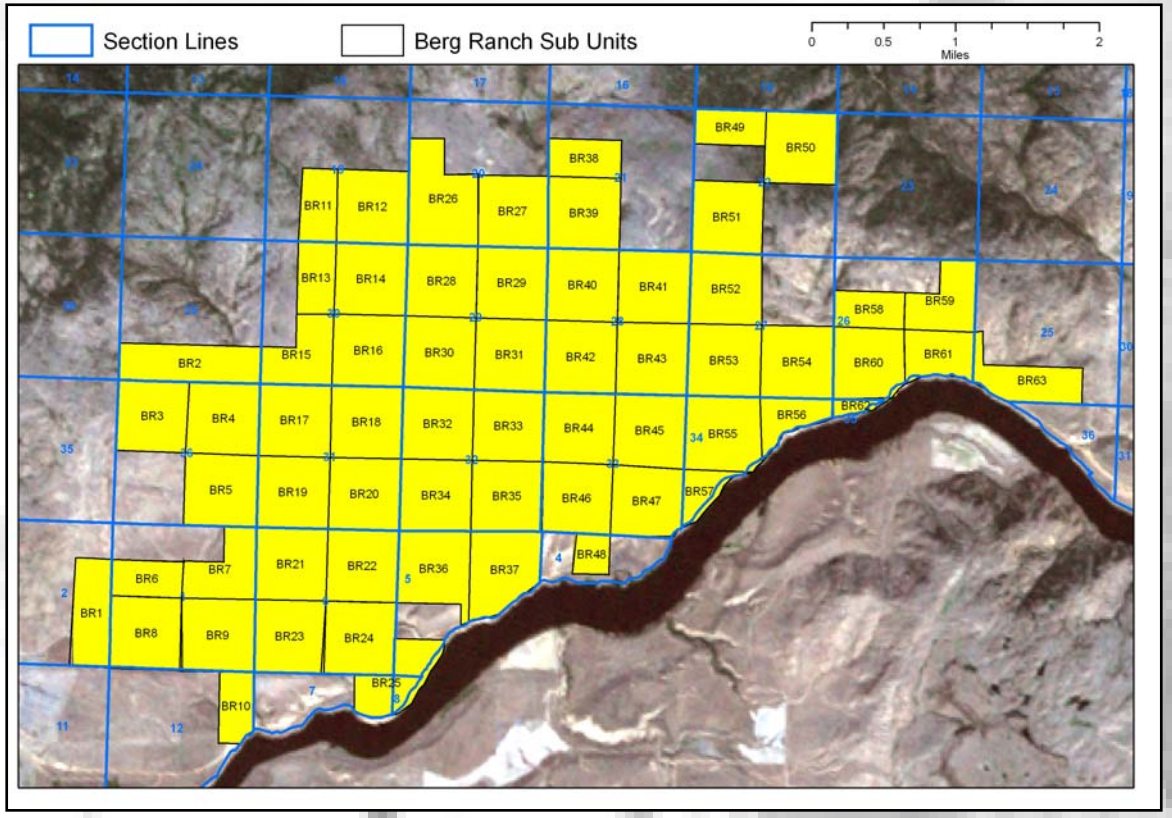
Weed Monitoring Methods





MA Sub-units

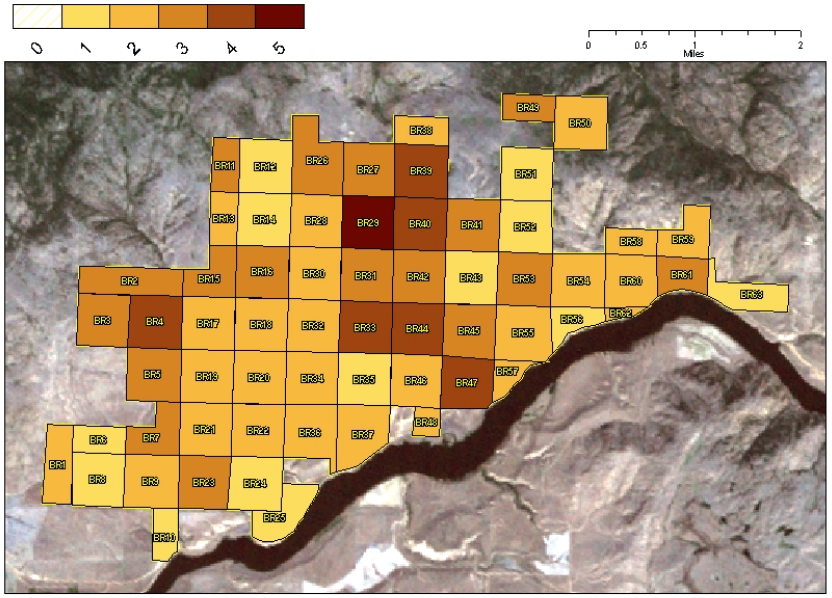
- **Sub-units are based on quarter sections (160 ac)**
- **Areas were surveyed**
- **Results in DB, then GeoDB**



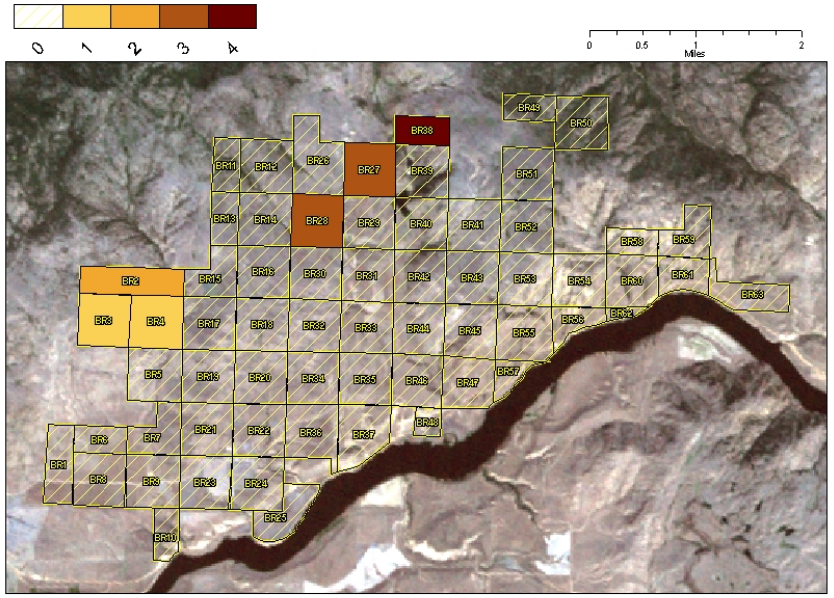
What can I do with it now?

- **Determine where weed infestations occur with the highest severity**
- **Find where desired species exist and at what relative level**
- **Locate best possible wintering range areas according to species**

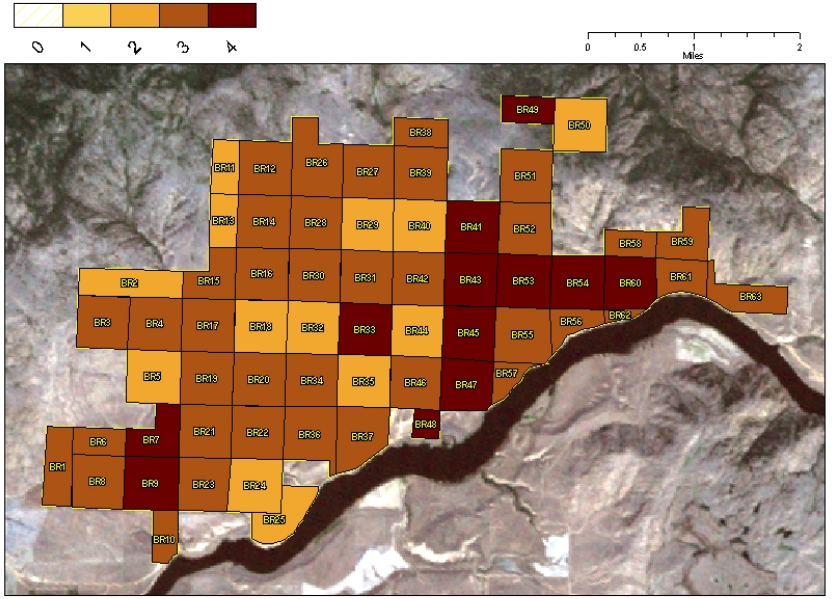
Dalmatian Toadflax



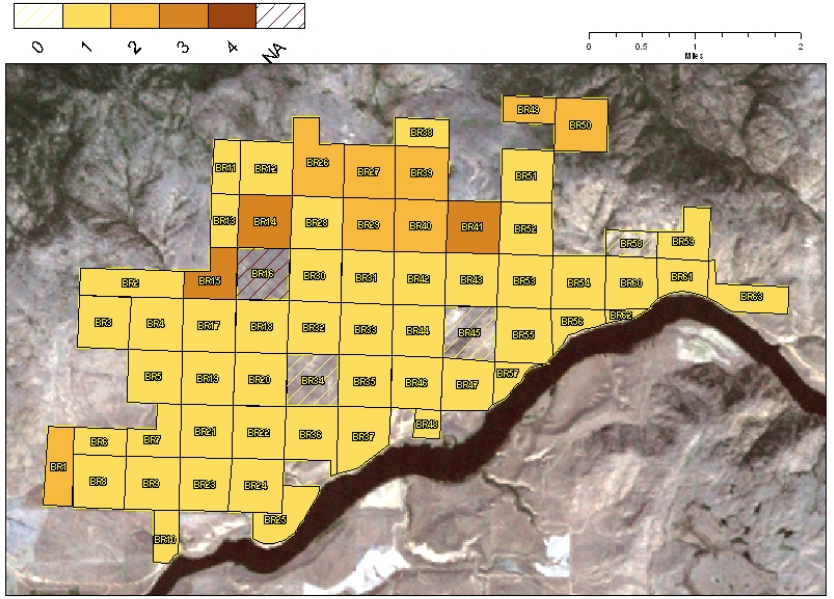
Houndstongue



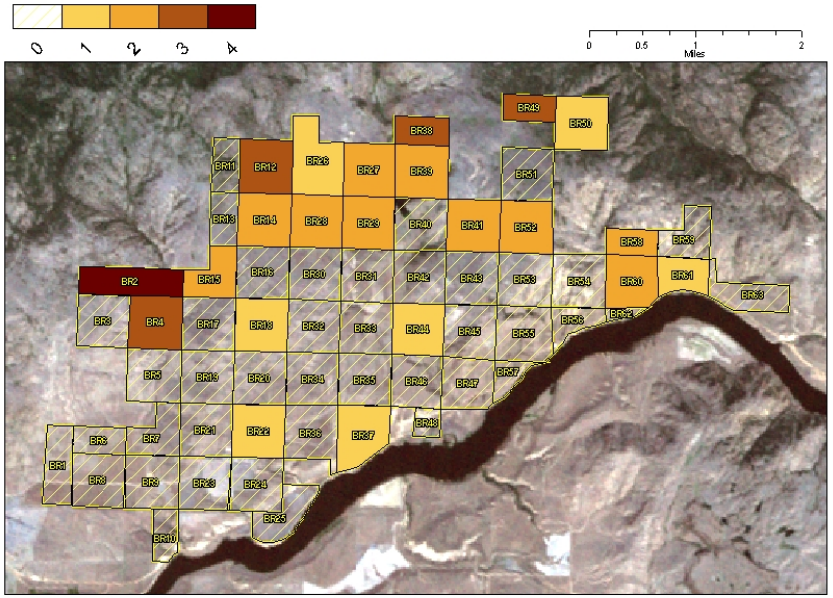
Cheatgrass



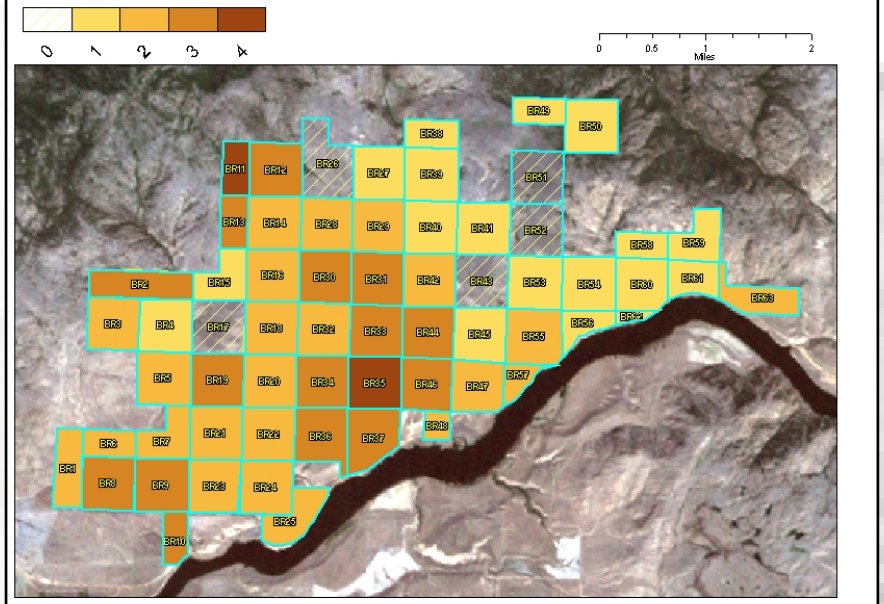
Diffuse Knapweed



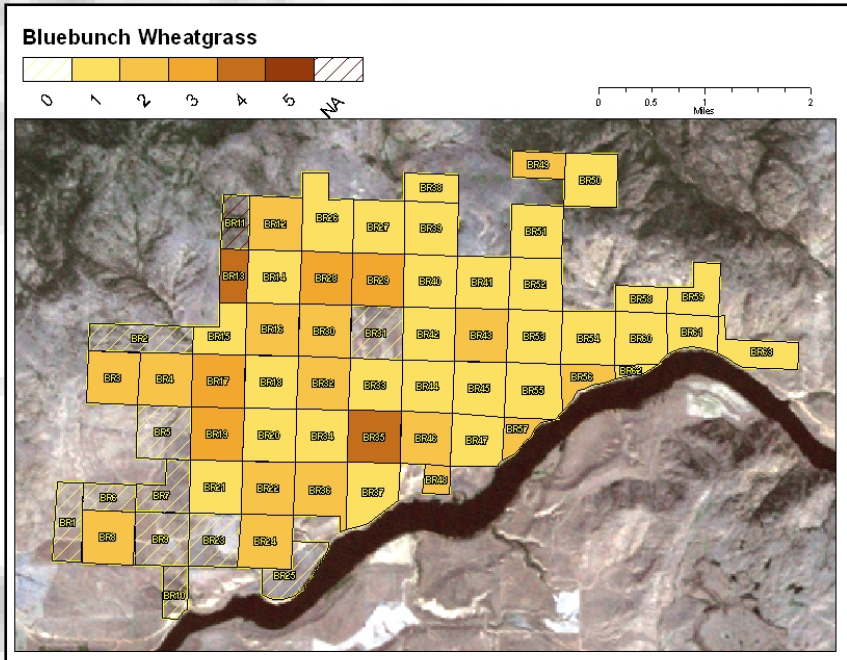
Quaking Aspen



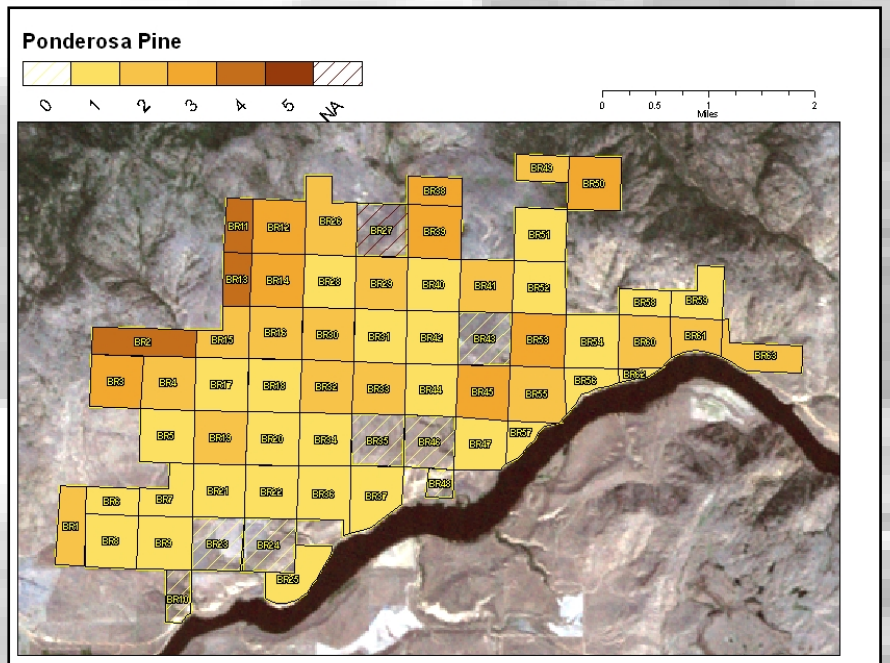
Bitterbrush



Bluebunch Wheatgrass



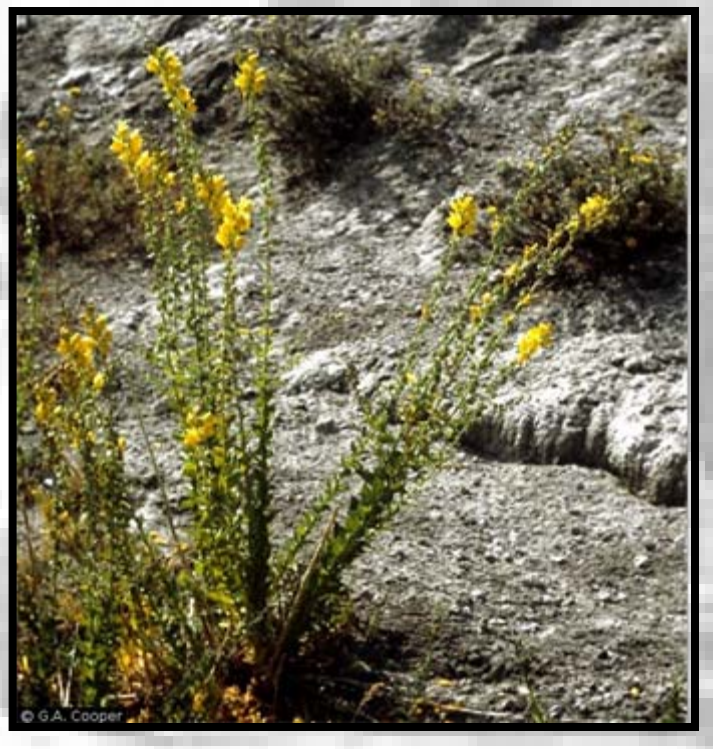
Ponderosa Pine

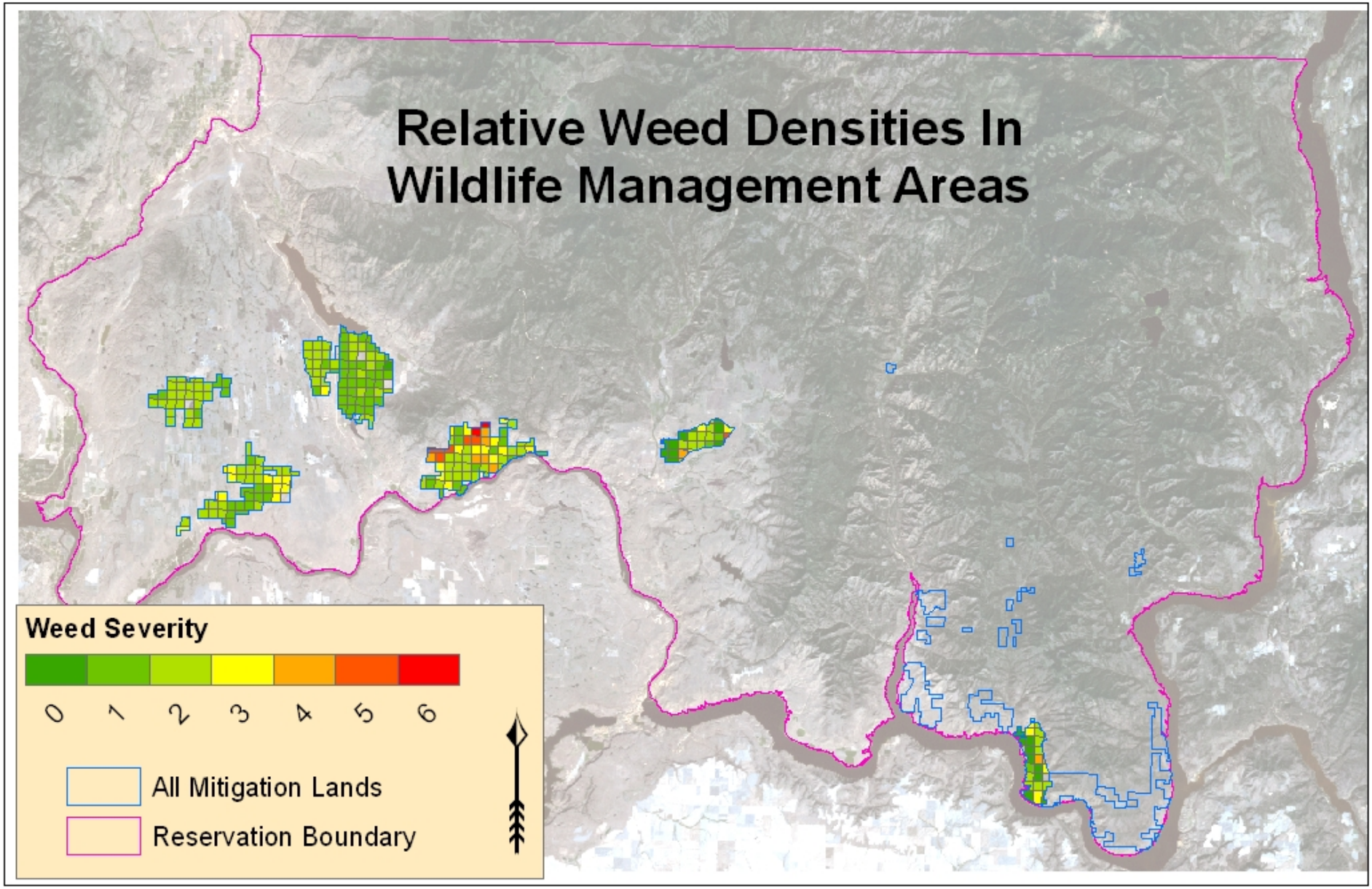


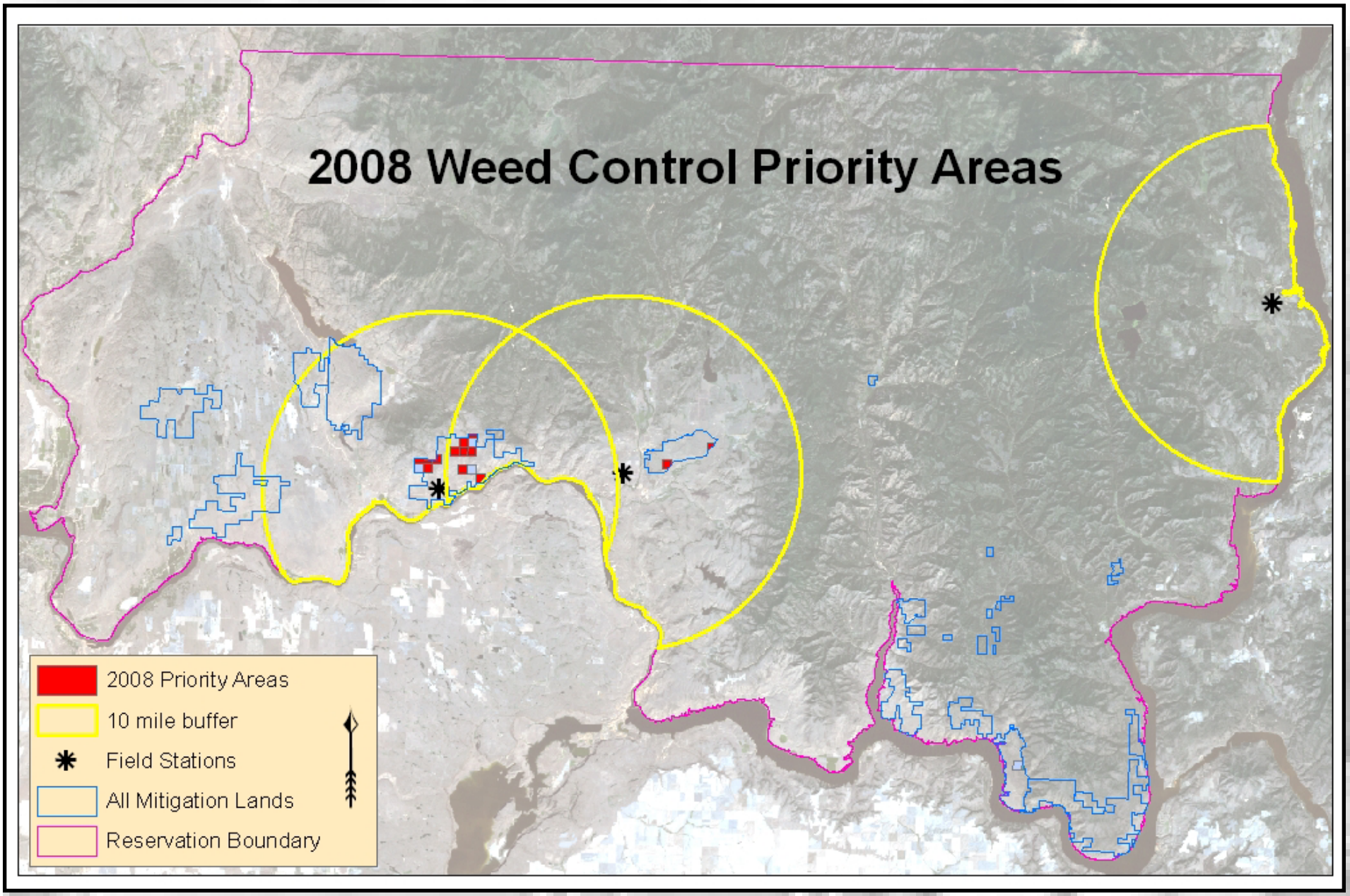
Case Study - The 2008 Weed Season

Major Project Goal

- **Control weeds on 1,600 acres**
- **High Priority Invasive Species**
  - **Dalmatian Toadflax**
  - **Houndstongue**
  - **St. Johnswort**

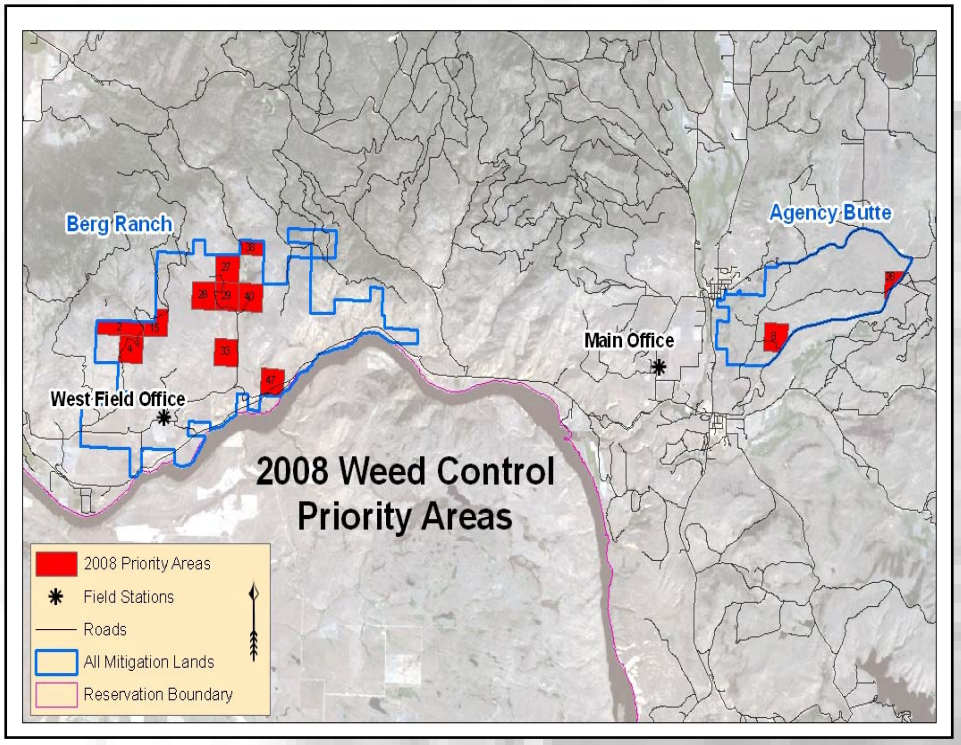



Relative Weed Densities In
Wildlife Management Areas
Weed Severity
0
1
2
3
4
5
6
All Mitigation Lands
Reservation Boundary


2008 Weed Control Priority Areas
2008 Priority Areas
10 mile buffer
Field Stations
All Mitigation Lands
Reservation Boundary

Results

- 1677.85 acres identified
- 12 sub-units were identified as priority areas
- This map and database allows for future planning and monitoring



Management Area	Bad Weeds	Map_ID	Acres
Berg Ranch	5	BR2	161.98
Berg Ranch	5	BR4	158.20
Berg Ranch	5	BR15	121.33
Berg Ranch	4	BR33	153.76
Berg Ranch	5	BR28	155.18
Berg Ranch	5	BR29	155.90
Berg Ranch	6	BR27	154.85
Berg Ranch	6	BR38	85.36
Berg Ranch	4	BR40	158.80
Berg Ranch	4	BR47	150.44
Agency	4	A8	149.77
Agency	5	A26	72.29
		Total	1677.85

Other examples

- **Combine all deciduous shrub and bitterbrush severity indices to determine areas with potential for quality winter range**
- **Monitor an invasion of specific species**
- **Monitor biological control efforts and movements**
- **Monitor species of concern (water birch, aspen)**
- **Monitor presence/absence or movement of wildlife species**

UWMEP

- **Coordination through UCUT and EWU**
- **Reference Sites**
- **Region-wide Effort**


Questions
or Comments?