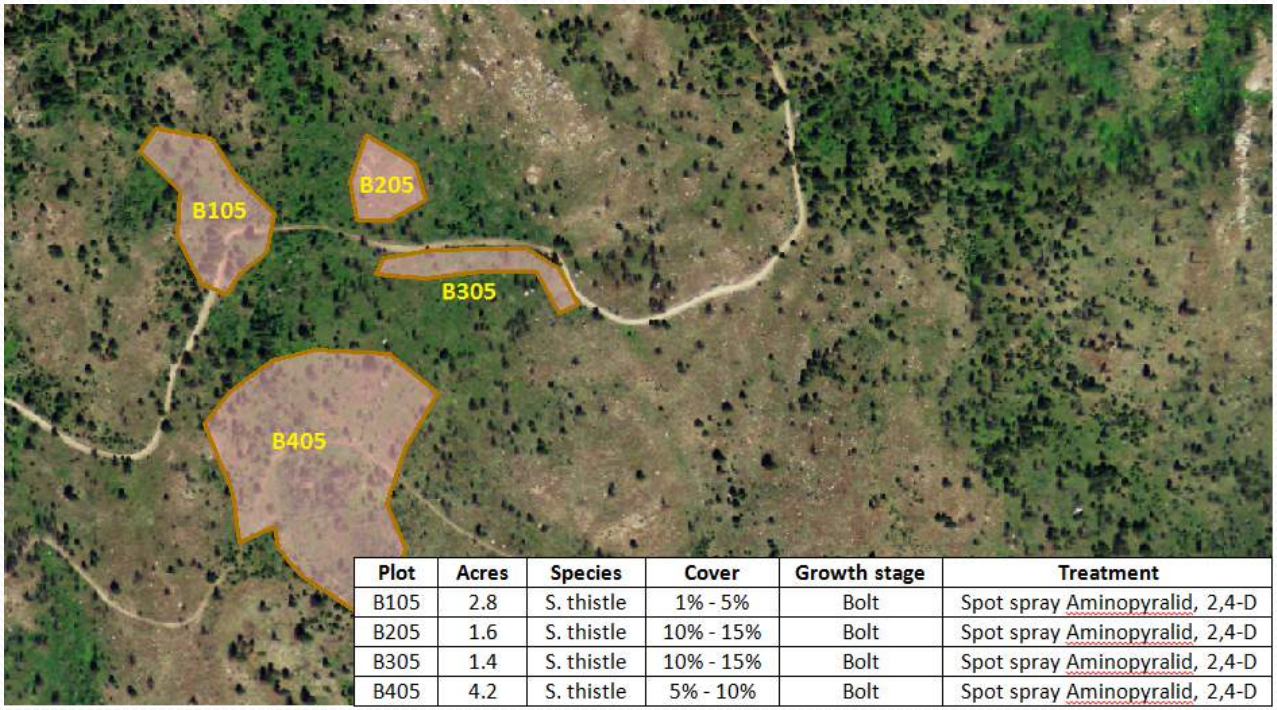
Sharing data and focusing efforts



Plot	Acres	Species	Cover	Growth stage	Treatment
B105	2.8	S. thistle	1% - 5%	Bolt	Spot spray Aminopyralid, 2,4-D
B205	1.6	S. thistle	10% - 15%	Bolt	Spot spray Aminopyralid, 2,4-D
B305	1.4	S. thistle	10% - 15%	Bolt	Spot spray Aminopyralid, 2,4-D
B405	4.2	S. thistle	5% - 10%	Bolt	Spot spray Aminopyralid, 2,4-D

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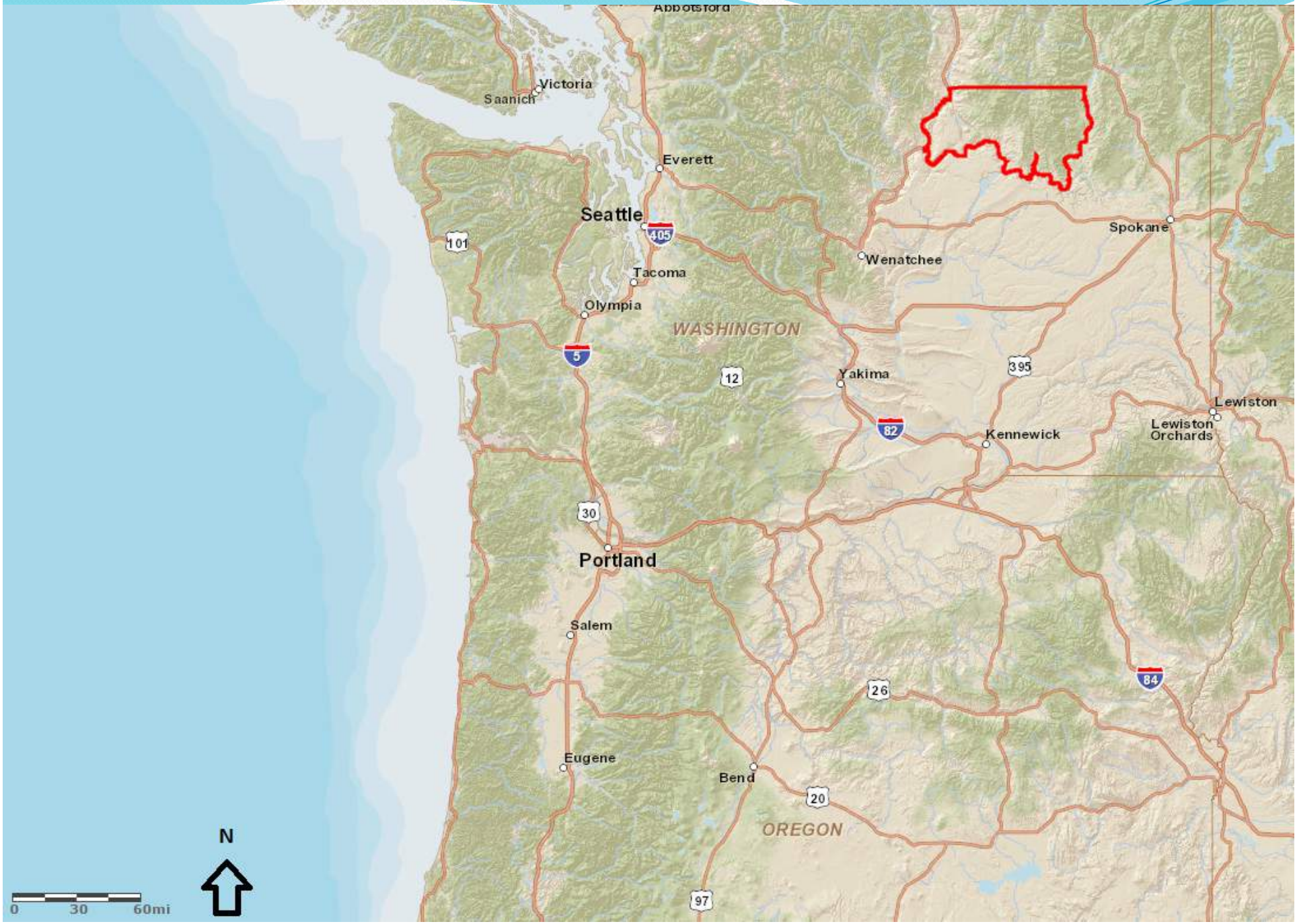
Content

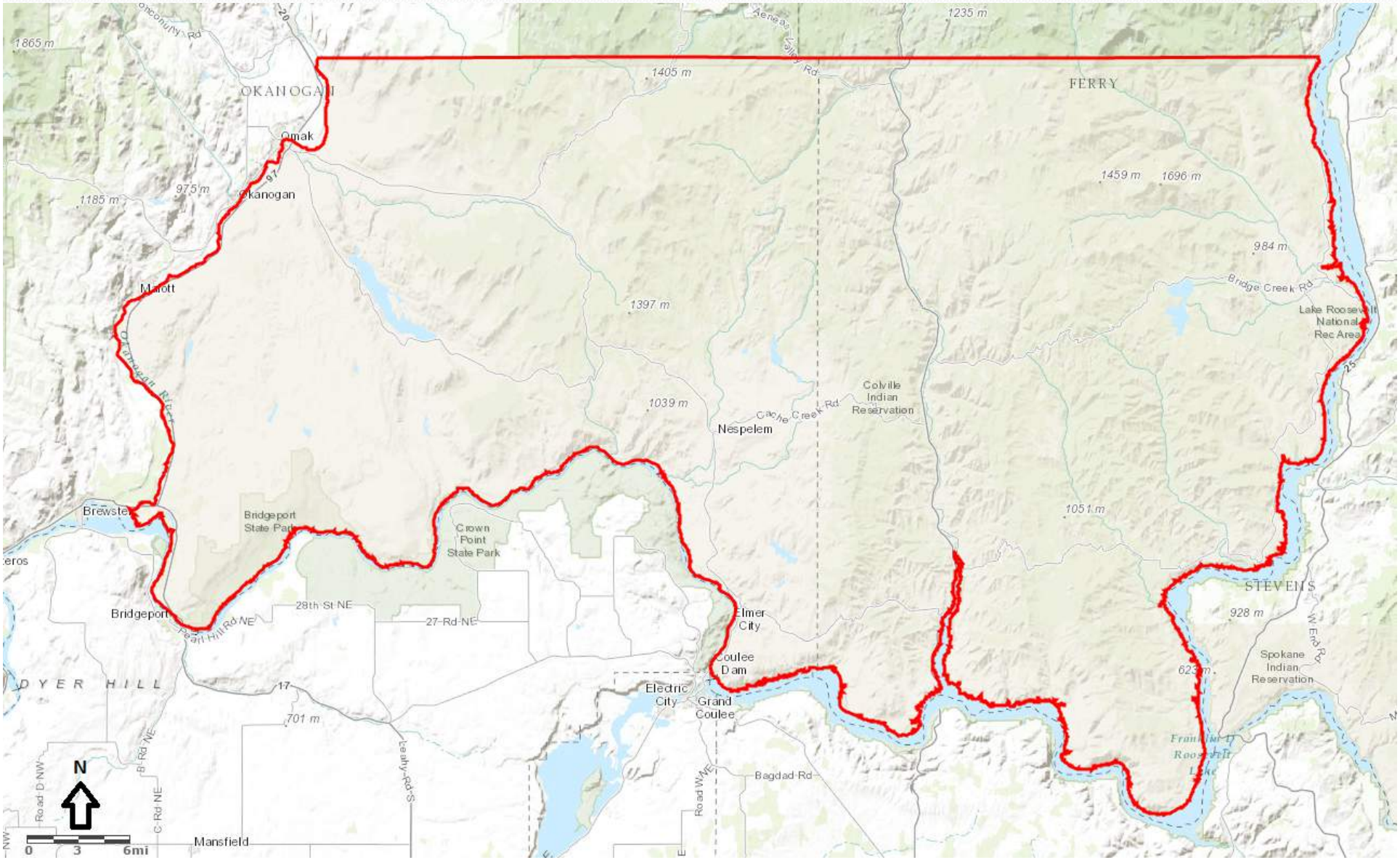
- Introduction
- Communication
- Work load vs resources
- Solution example
- Concluding notes

Introduction



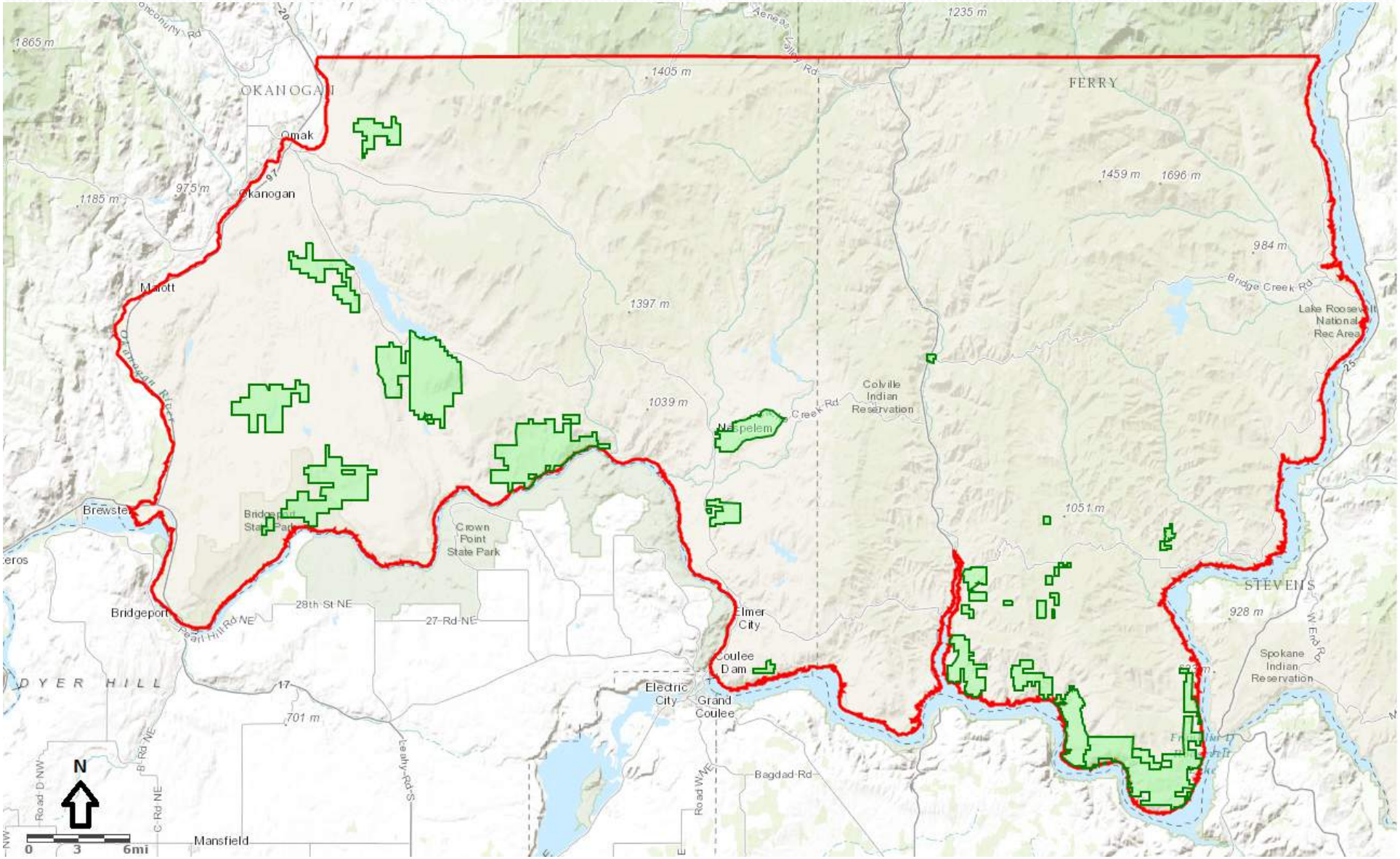
Introduction

2,116,802 acres (8,566 km²)



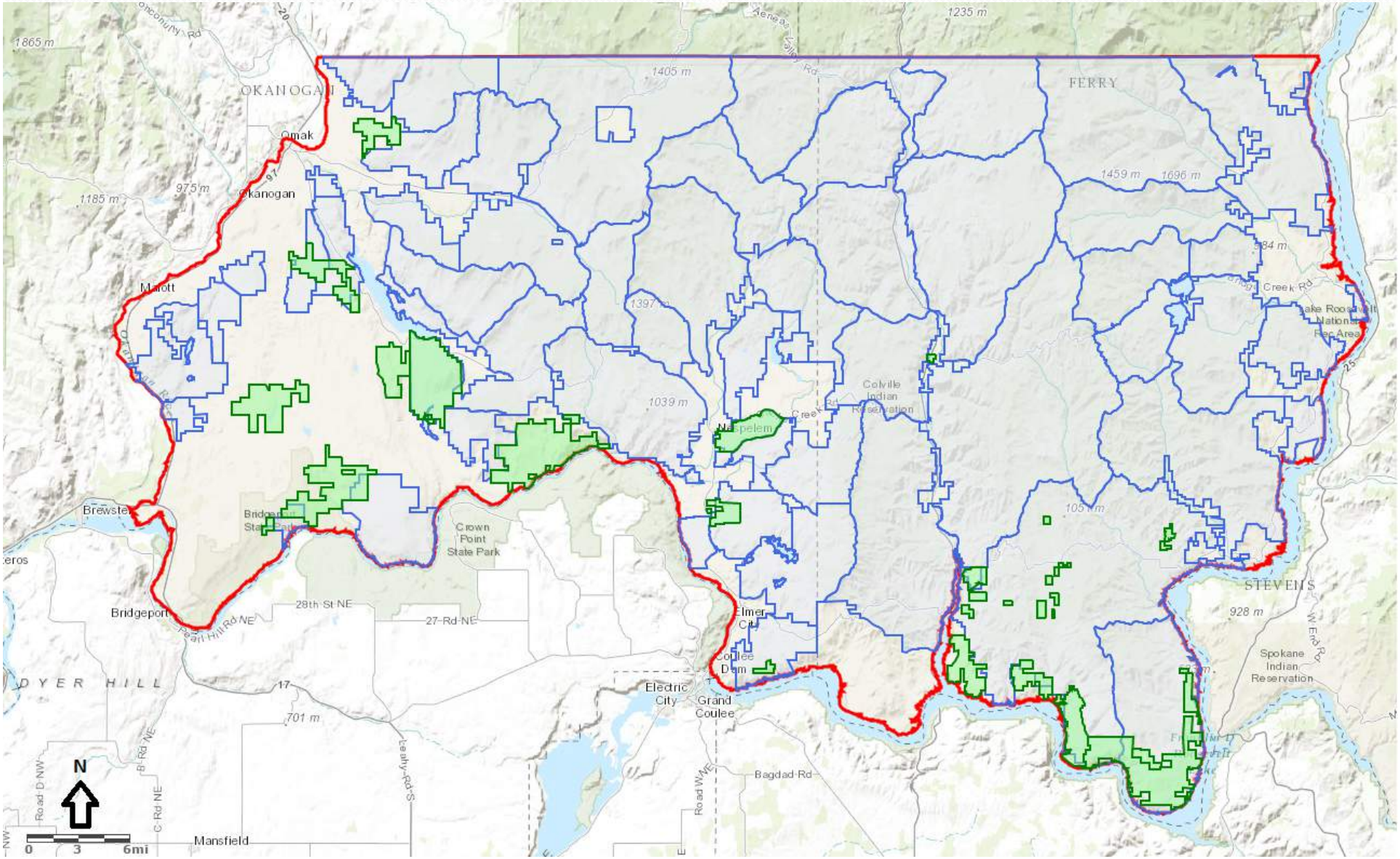
Introduction

62,320 acres (25,220 hectares)



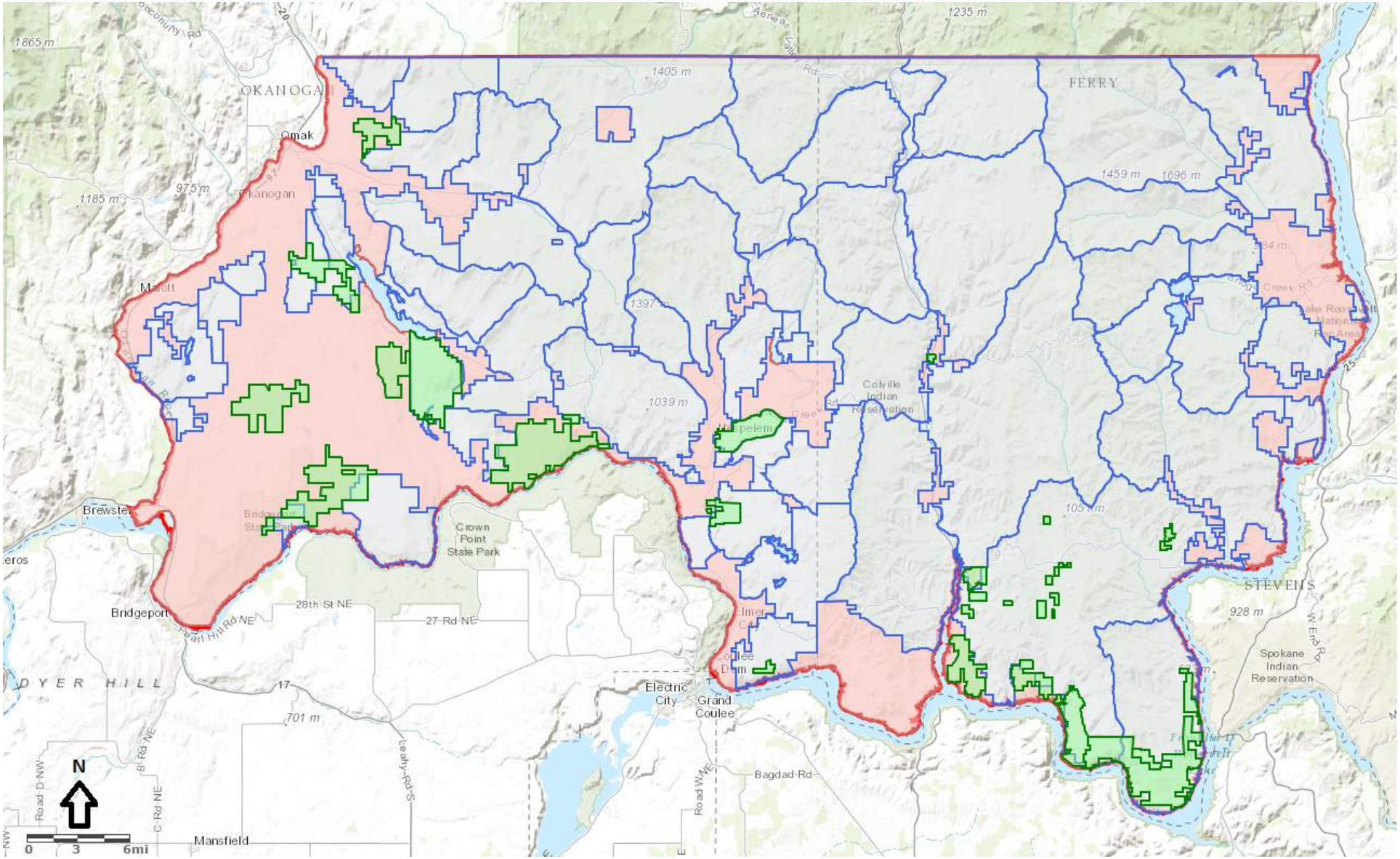
Introduction

1,737,695 acres (703,220 hectares)



Introduction

316,788 acres (128,200 hectares)



Communication

Who does weed management?

- Two separate weed control crews
- Okanogan and Ferry county weed boards
- Okanogan county public works
- WA Dept. of transportation
- Private contractors
- Private land owners / leasers
- Tribal Dept. of Archeology

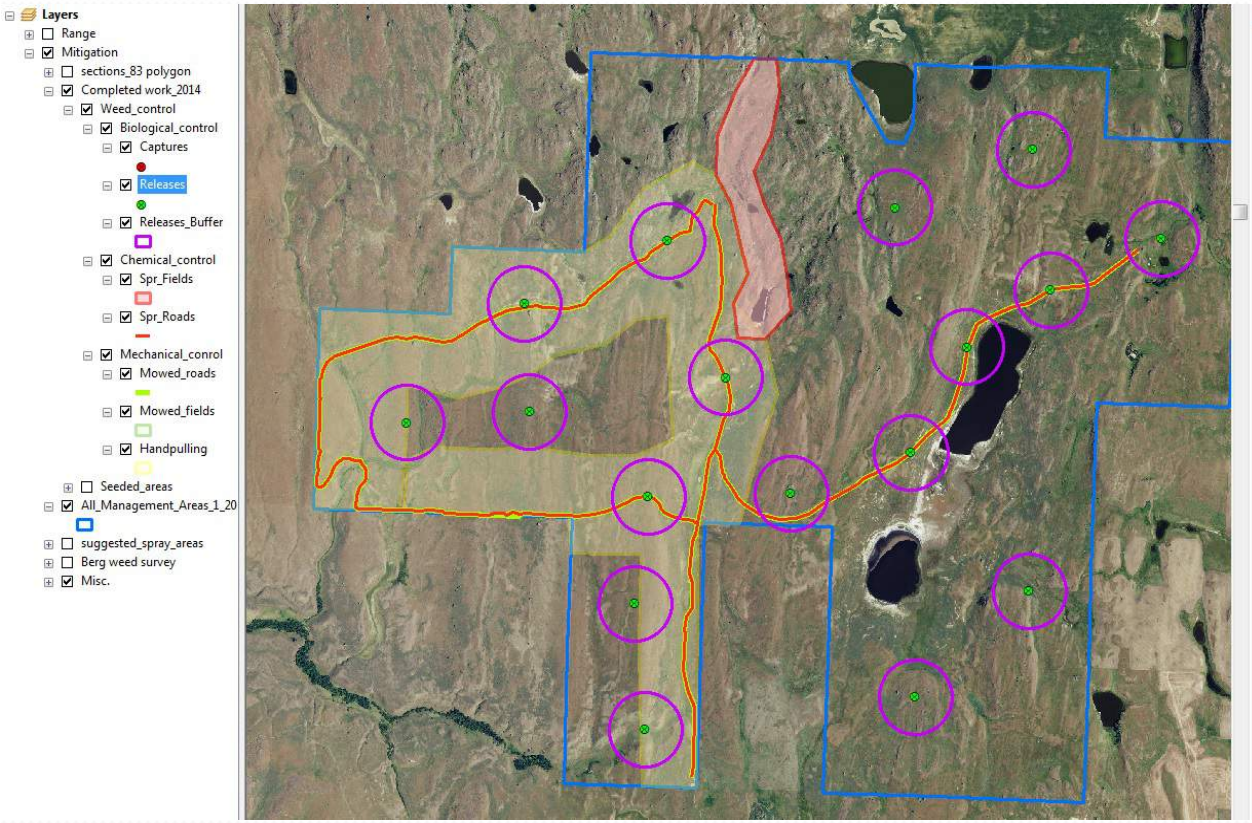
<u>Lack of communication</u>

Lack of communication

- Divided priorities
- Non-transparent boundaries
- Counterproductive management strategies

Cannot afford anything less then 100% efficiency

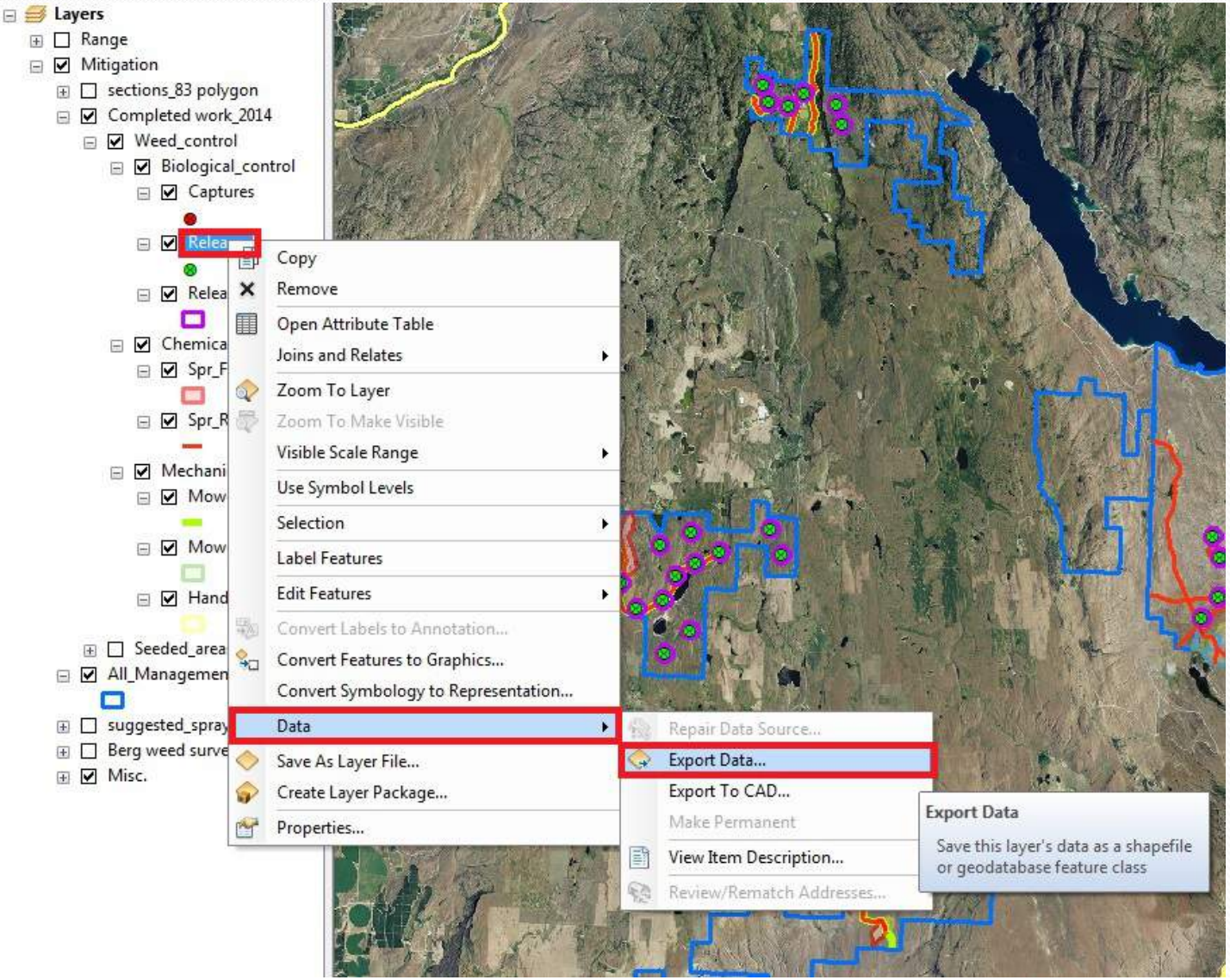
Example



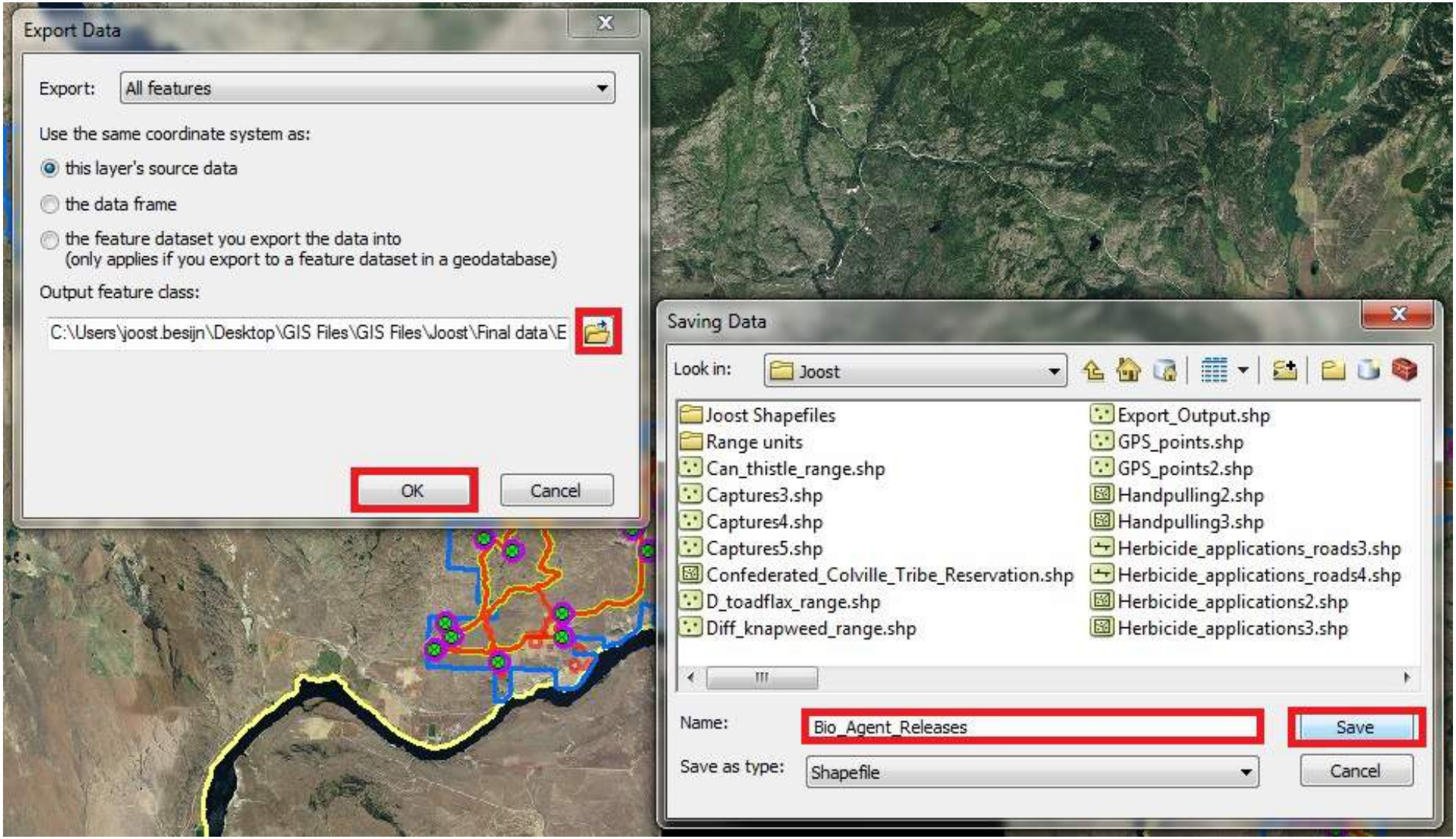
Releases

Date	Bio_agent	Trgt_weed	Rlsd_by	Number	Capture_no	Release_no
5/13/2014	Mecinus janthiniformis	Dalmatian toadflax	Joost Besijn	250	1	1
5/13/2014	Mecinus janthiniformis	Dalmatian toadflax	Joost Besijn	250	1	2
5/16/2014	Mecinus janthiniformis	Dalmatian toadflax	Joost Besijn	350	2	3
5/16/2014	Mecinus janthiniformis	Dalmatian toadflax	Joost Besijn	350	2	4
5/16/2014	Mecinus janthiniformis	Dalmatian toadflax	Joost Besijn	350	2	5
5/20/2014	Mecinus janthiniformis	Dalmatian toadflax	Joost Besijn	450	3	6
5/21/2014	Mecinus janthiniformis	Dalmatian toadflax	Joost Besijn	450	3	7
6/24/2014	Larinus minutus	Diffuse Knapweed	Joost Besijn	250	4	8
6/24/2014	Larinus minutus	Diffuse Knapweed	Joost Besijn	250	4	9
6/24/2014	Larinus minutus	Diffuse Knapweed	Joost Besijn	250	4	10
6/24/2014	Larinus minutus	Diffuse Knapweed	Joost Besijn	250	4	11
6/24/2014	Larinus minutus	Diffuse Knapweed	Joost Besijn	250	4	12
6/26/2014	Larinus minutus	Diffuse Knapweed	Joost Besijn	250	5	13
6/26/2014	Larinus minutus	Diffuse Knapweed	Joost Besijn	250	5	14
6/26/2014	Larinus minutus	Diffuse Knapweed	Joost Besijn	250	5	15
6/26/2014	Larinus minutus	Diffuse Knapweed	Joost Besijn	250	5	16
6/26/2014	Larinus minutus	Diffuse Knapweed	Joost Besijn	250	5	17
6/26/2014	Larinus minutus	Diffuse Knapweed	Joost Besijn	250	5	18
7/2/2014	Larinus minutus	Diffuse Knapweed	Joost Besijn	250	6	19
7/2/2014	Larinus minutus	Diffuse Knapweed	Joost Besijn	250	6	20
7/2/2014	Larinus minutus	Diffuse Knapweed	Joost Besijn	250	6	21
7/3/2014	Larinus minutus	Diffuse Knapweed	Joost Besijn	250	7	22
7/3/2014	Larinus minutus	Diffuse Knapweed	Joost Besijn	250	7	23
7/3/2014	Larinus minutus	Diffuse Knapweed	Joost Besijn	250	7	24
7/3/2014	Larinus minutus	Diffuse Knapweed	Joost Besijn	250	8	25
7/3/2014	Larinus minutus	Diffuse Knapweed	Joost Besijn	250	8	26
7/3/2014	Larinus minutus	Diffuse Knapweed	Joost Besijn	250	8	27
7/3/2014	Larinus minutus	Diffuse Knapweed	Joost Besijn	250	8	28
7/7/2014	Larinus minutus	Diffuse Knapweed	Joost Besijn	250	9	29
7/7/2014	Larinus minutus	Diffuse Knapweed	Joost Besijn	250	9	30
7/7/2014	Larinus minutus	Diffuse Knapweed	Joost Besijn	250	9	31
7/7/2014	Larinus minutus	Diffuse Knapweed	Joost Besijn	250	9	32
7/8/2014	Chrysolina quadrigemina	St. Johnswort	Joost Besijn	250	10	33
7/8/2014	Chrysolina quadrigemina	St. Johnswort	Joost Besijn	250	10	34
7/8/2014	Chrysolina quadrigemina	St. Johnswort	Joost Besijn	250	10	35
7/8/2014	Larinus minutus	Diffuse Knapweed	Joost Besijn	250	11	36
7/8/2014	Larinus minutus	Diffuse Knapweed	Joost Besijn	250	11	37
7/8/2014	Larinus minutus	Diffuse Knapweed	Joost Besijn	250	11	38
7/8/2014	Larinus minutus	Diffuse Knapweed	Joost Besijn	250	11	39
7/14/2014	Larinus minutus	Diffuse knapweed	Joost Besijn	250	12	40
7/14/2014	Larinus minutus	Diffuse knapweed	Joost Besijn	250	12	41
7/14/2014	Larinus minutus	Diffuse knapweed	Joost Besijn	250	12	42
7/28/2014	Larinus minutus	Diffuse knapweed	Joost Besijn	250	13	43
7/28/2014	Larinus minutus	Diffuse knapweed	Joost Besijn	250	13	44
7/28/2014	Larinus minutus	Diffuse knapweed	Joost Besijn	250	13	45
7/28/2014	Larinus minutus	Diffuse knapweed	Joost Besijn	250	13	46

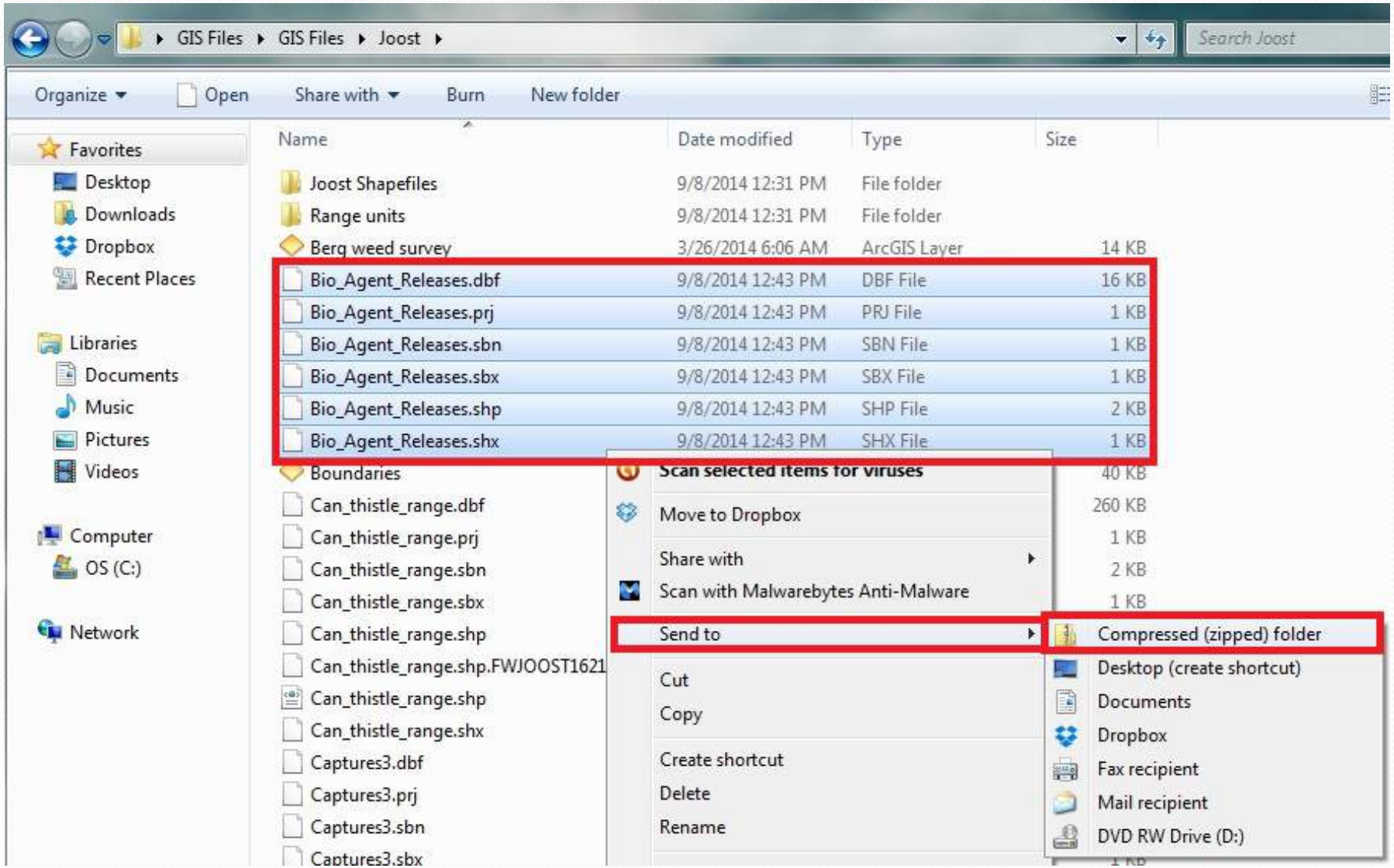
Step 1: Exporting your data



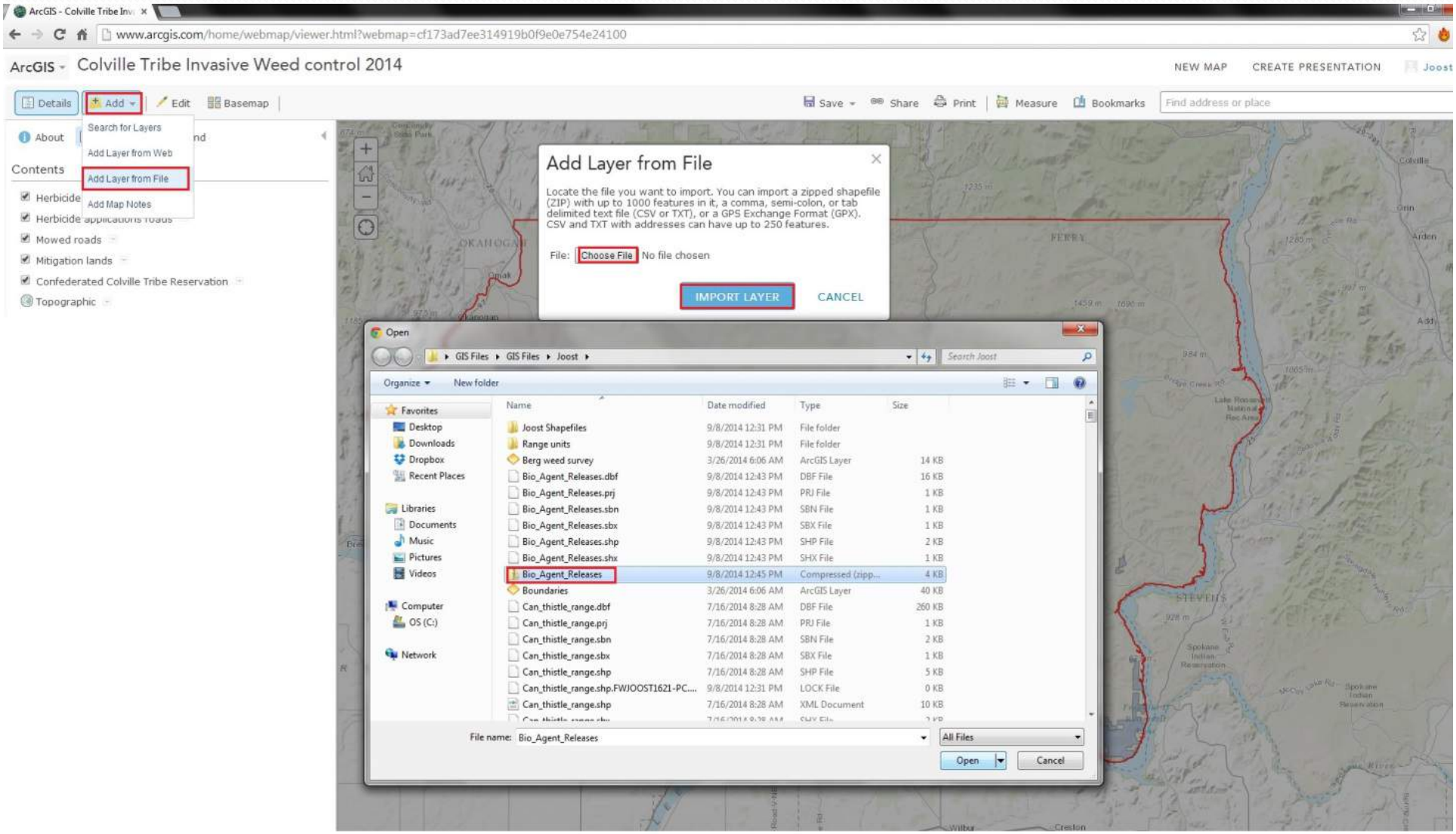
Step 2: Saving exported data



Step 3: Compressing saved data



Step 4: Importing zipped data



Concluding notes

- Maximizes resource efficiency
- Instant information sharing
- Basic GIS software (no new skills / tools required)
- Allows for monitoring of management
- Vegetative modelling?

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