










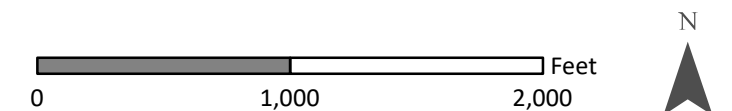


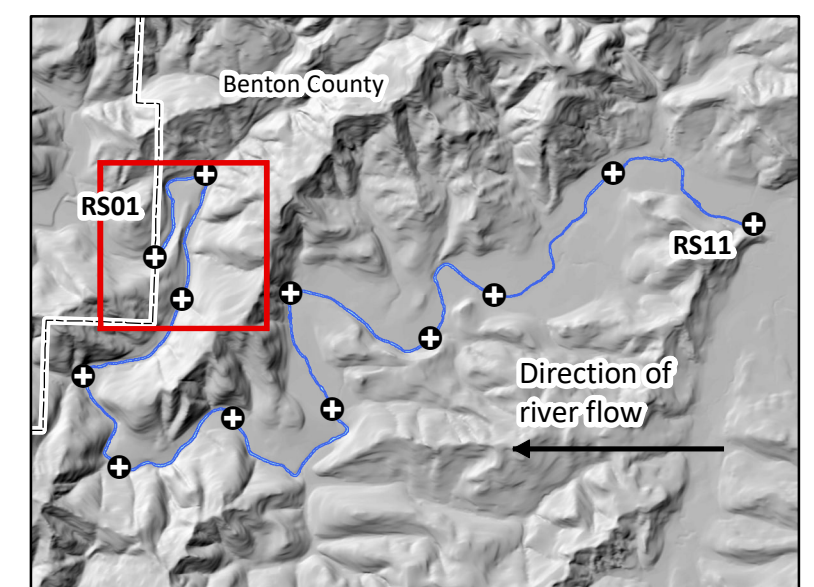
Appendix A of Flood Depth and Chanel Migration Zone Maps, Benton Marion, Morrow, and Washington Counties, Oregon

Benton County
Alsea River, River Segments 1-3

-  River segment break points
-  Channel migration zone
-  Active channel
-  Avulsion hazard area
-  Historical migration area
-  30-year erosion hazard area
-  100-year erosion hazard area
-  Flagged: adjacent to landslide deposit
-  Flagged: change between 1995-2018
-  Flagged: adjacent to landslide and change observed
-  Major road



Basemap: Lidar hillshade and Oregon State Imagery Program 2018



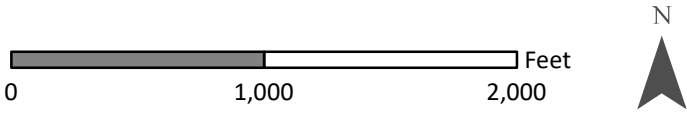
Location map with Alsea River, river segments, and current extent of map highlighted in red.



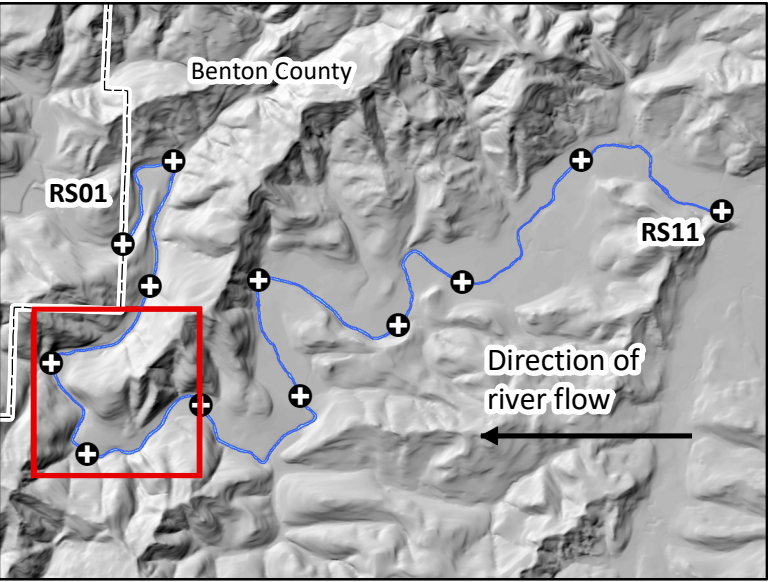
Appendix A of Flood Depth and Chanel Migration Zone Maps, Benton Marion, Morrow, and Washington Counties, Oregon

Benton County
Alsea River, River Segments 3-5

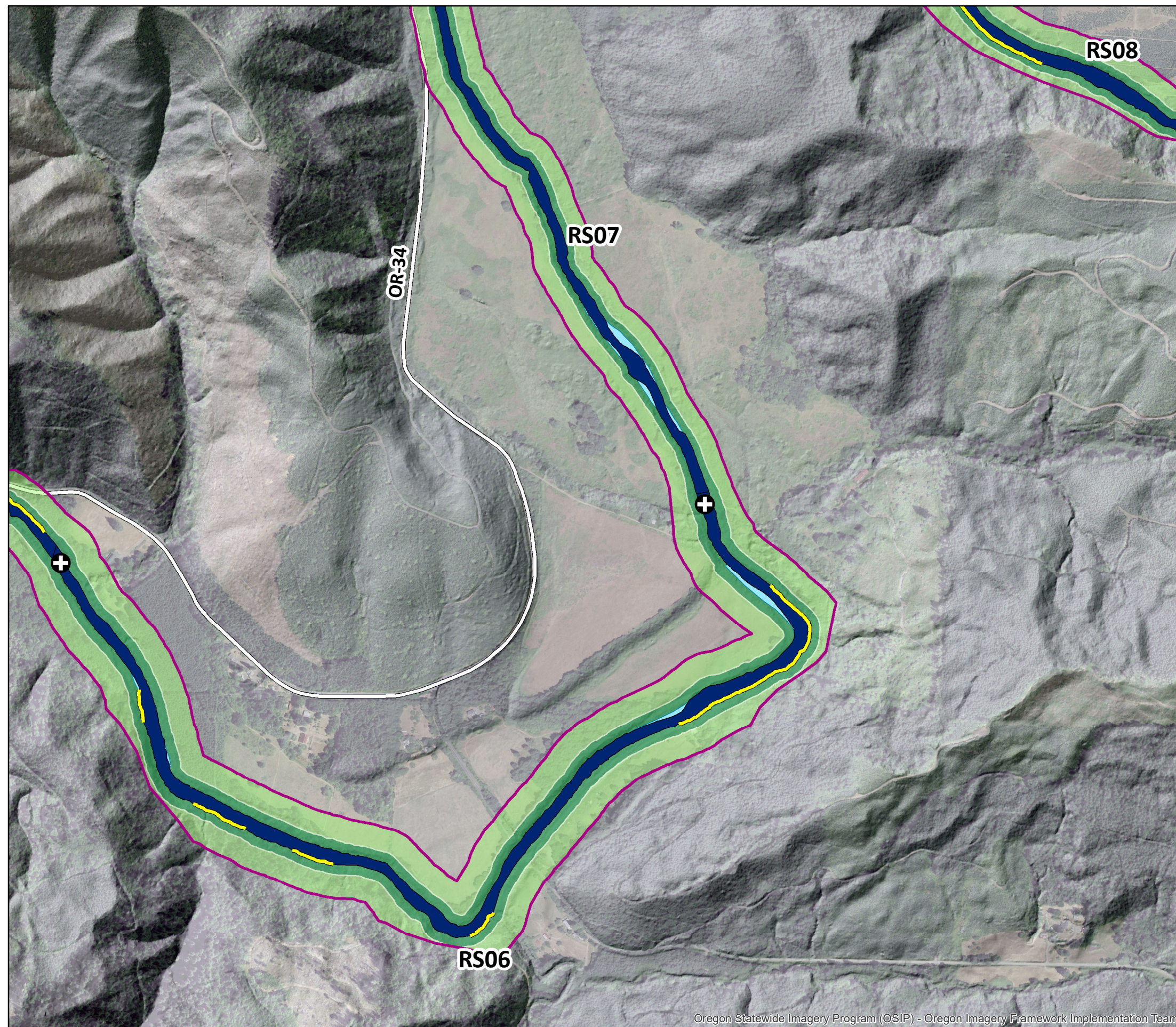
- ⊕ River segment break points
- Channel migration zone
- Active channel
- Avulsion hazard area
- Historical migration area
- 30-year erosion hazard area
- 100-year erosion hazard area
- Flagged: adjacent to landslide deposit
- Flagged: change between 1995-2018
- Flagged: adjacent to landslide and change observed
- Major road



Basemap: Lidar hillshade and Oregon State Imagery Program 2018



Location map with Alsea River, river segments, and current extent of map highlighted in red.

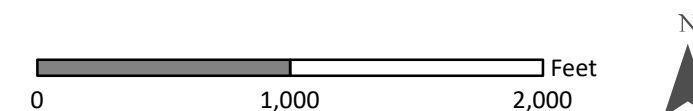


Oregon Statewide Imagery Program (OSIP) - Oregon Imagery Framework Implementation Team

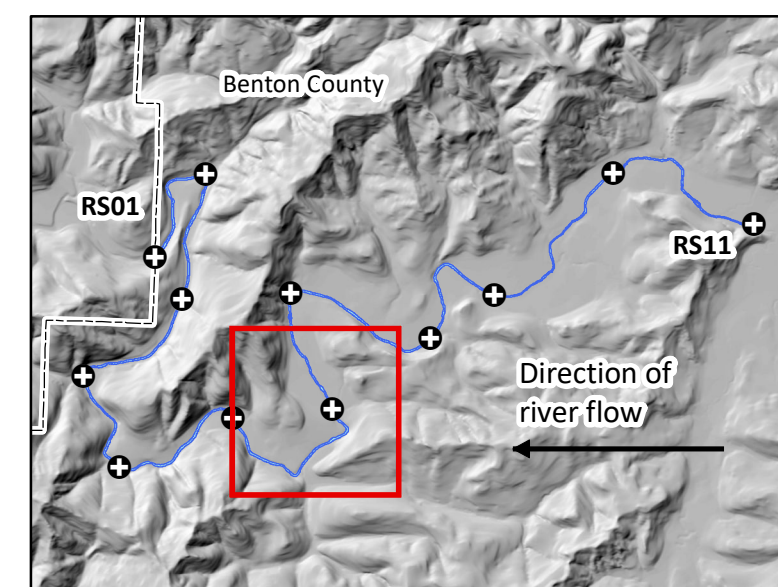
Appendix A of Flood Depth and Chanel Migration Zone Maps, Benton Marion, Morrow, and Washington Counties, Oregon

Benton County
Alsea River, River Segments 6-7

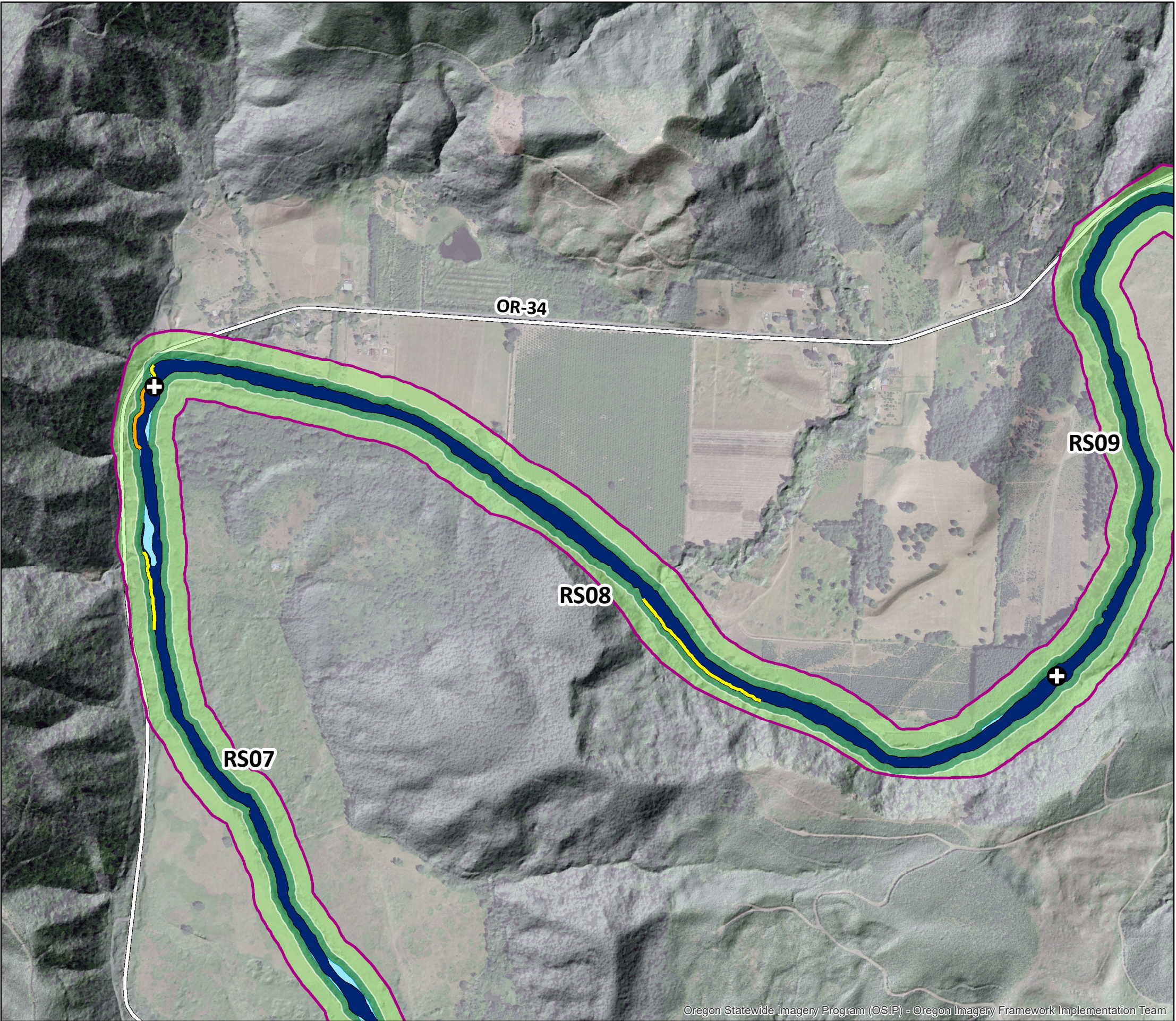
- ⊕ River segment break points
- Channel migration zone
- Active channel
- Avulsion hazard area
- Historical migration area
- 30-year erosion hazard area
- 100-year erosion hazard area
- Flagged: adjacent to landslide deposit
- Flagged: change between 1995-2018
- Flagged: adjacent to landslide and change observed
- Major road



Basemap: Lidar hillshade and Oregon State Imagery Program 2018



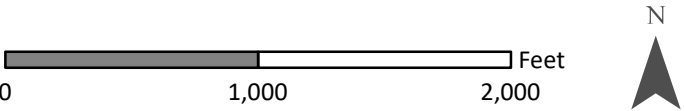
Location map with Alsea River, river segments, and current extent of map highlighted in red.



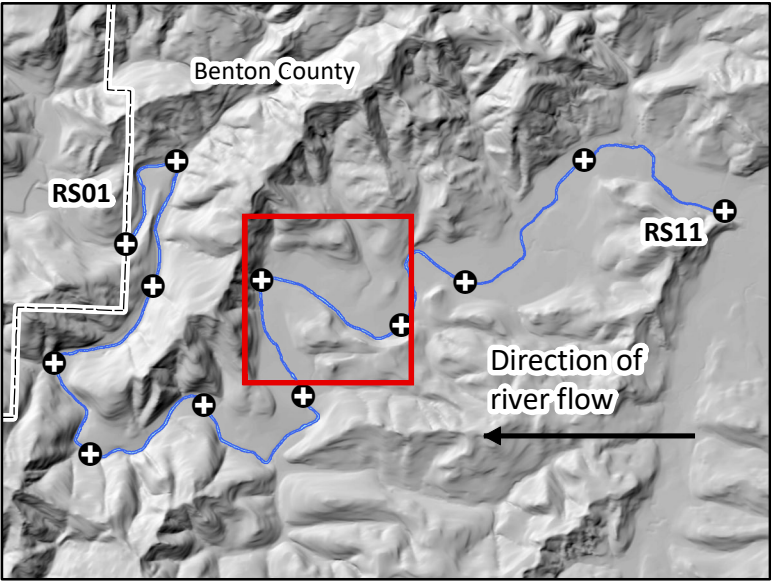
Appendix A of Flood Depth and Chanel Migration Zone Maps, Benton Marion, Morrow, and Washington Counties, Oregon

Benton County
Alsea River, River Segments 7-9

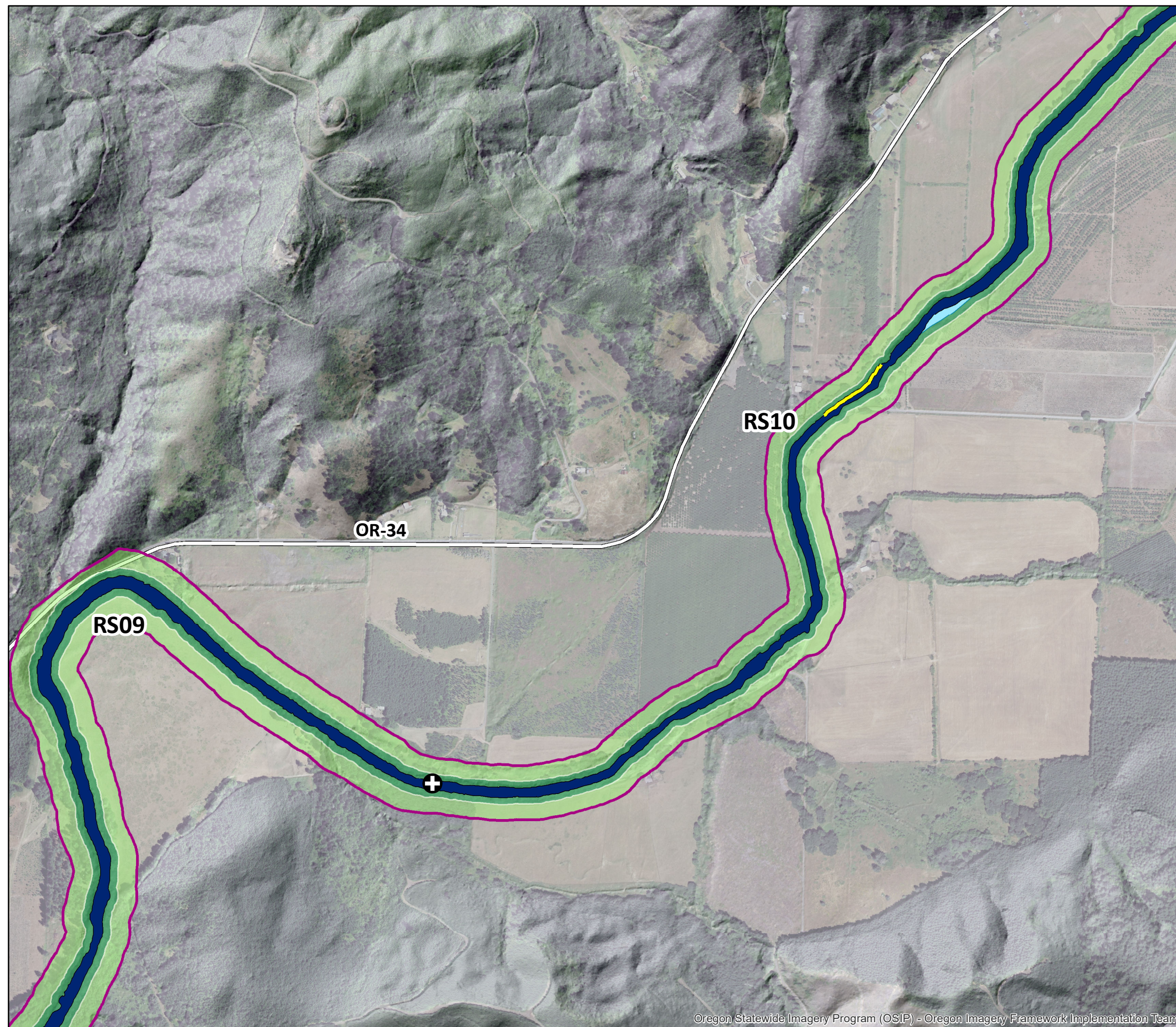
- ⊕ River segment break points
- Channel migration zone
- Active channel
- Avulsion hazard area
- Historical migration area
- 30-year erosion hazard area
- 100-year erosion hazard area
- Flagged: adjacent to landslide deposit
- Flagged: change between 1995-2018
- Flagged: adjacent to landslide and change observed
- Major road



Basemap: Lidar hillshade and Oregon State Imagery Program 2018



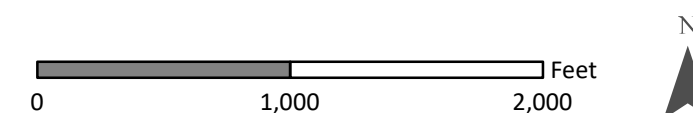
Location map with Alsea River, river segments, and current extent of map highlighted in red.



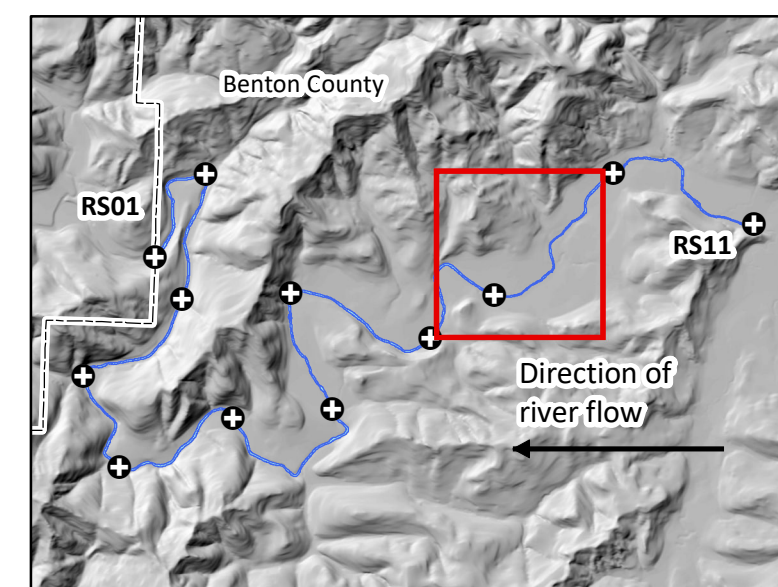
Appendix A of Flood Depth and Chanel Migration Zone Maps, Benton Marion, Morrow, and Washington Counties, Oregon

Benton County
Alsea River, River Segments 9-10

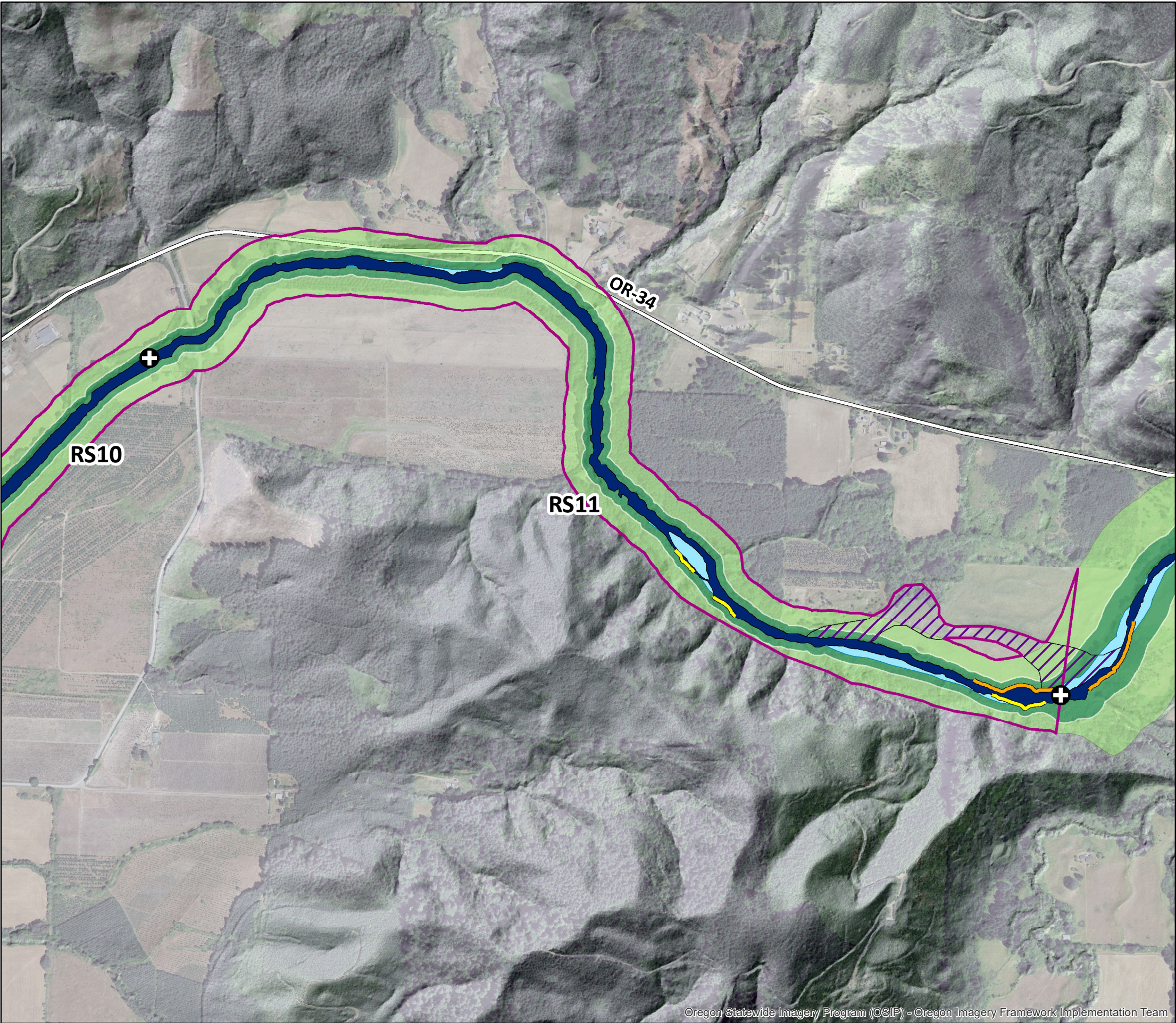
- ⊕ River segment break points
- Channel migration zone
- Active channel
- Avulsion hazard area
- Historical migration area
- 30-year erosion hazard area
- 100-year erosion hazard area
- Flagged: adjacent to landslide deposit
- Flagged: change between 1995-2018
- Flagged: adjacent to landslide and change observed
- Major road



Basemap: Lidar hillshade and Oregon State Imagery Program 2018



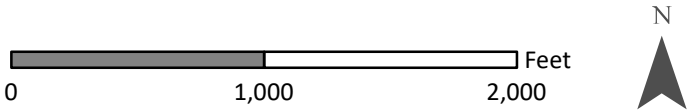
Location map with Alsea River, river segments, and current extent of map highlighted in red.



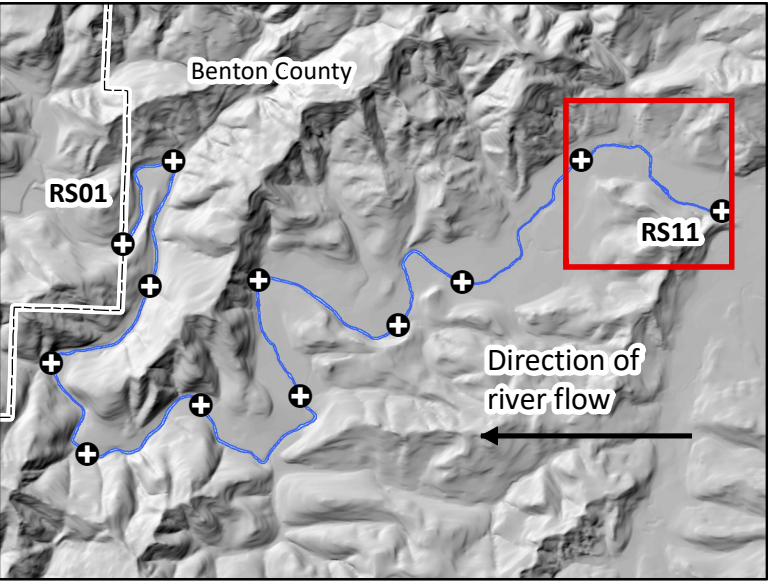
Appendix A of Flood Depth and Chanel Migration Zone Maps, Benton Marion, Morrow, and Washington Counties, Oregon

Benton County
Alsea River, River Segments 10-11

- ⊕ River segment break points
- Channel migration zone
- Active channel
- Avulsion hazard area
- Historical migration area
- 30-year erosion hazard area
- 100-year erosion hazard area
- Flagged: adjacent to landslide deposit
- Flagged: change between 1995-2018
- Flagged: adjacent to landslide and change observed
- Major road



Basemap: Lidar hillshade and Oregon State Imagery Program 2018

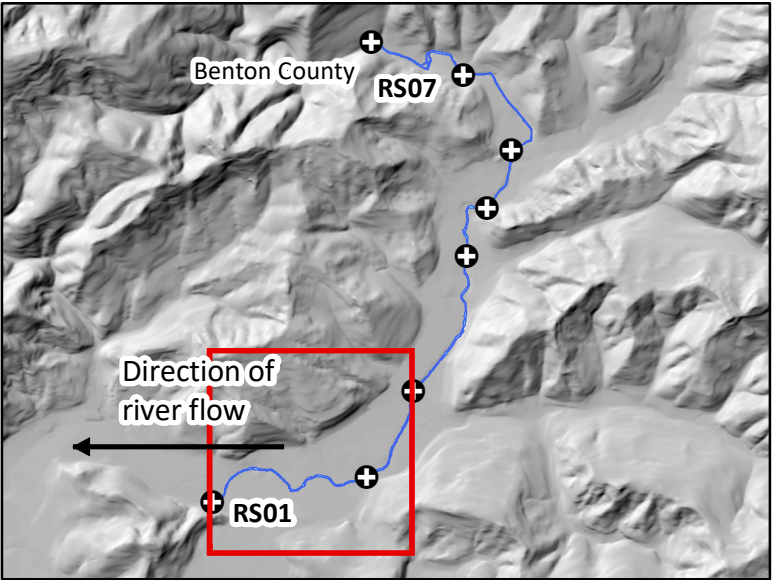
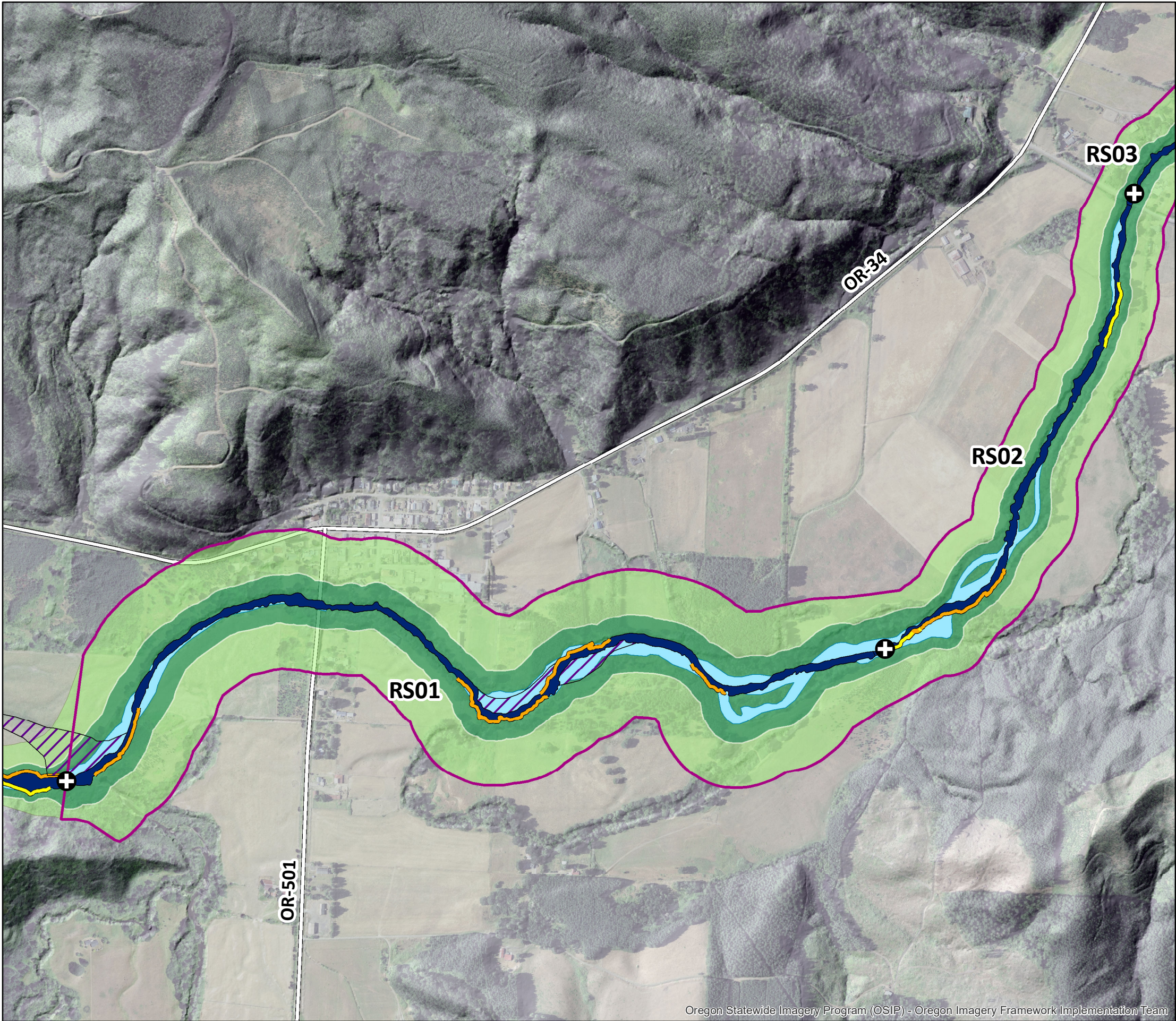
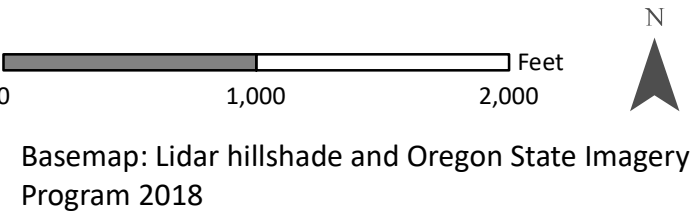


Location map with Alsea River, river segments, and current extent of map highlighted in red.

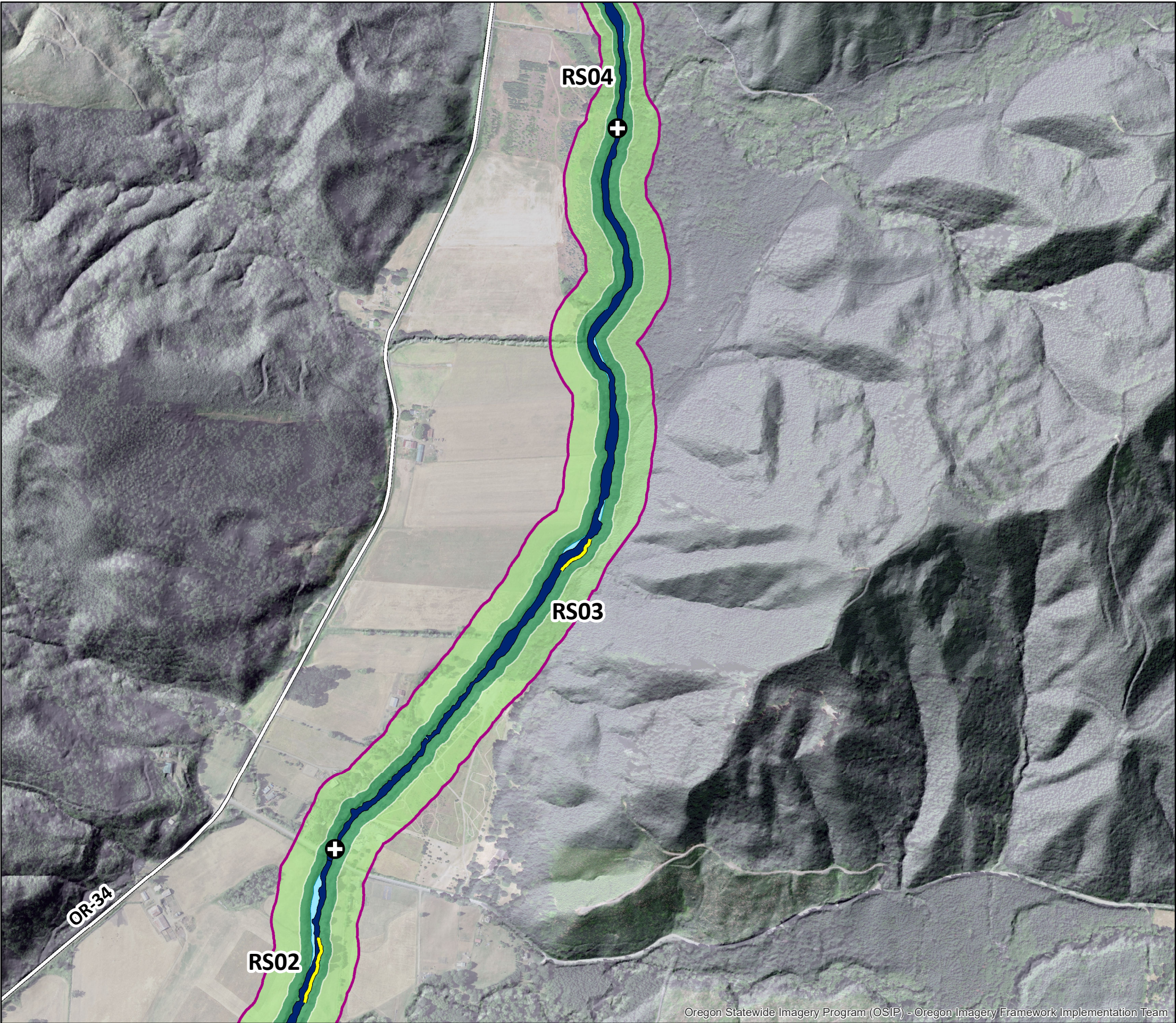
Appendix A of Flood Depth and Chanel Migration Zone Maps, Benton Marion, Morrow, and Washington Counties, Oregon

Benton County
North Fork Alsea River, River Segments 1-2

- ⊕ River segment break points
- Channel migration zone
- Active channel
- Avulsion hazard area
- Historical migration area
- 30-year erosion hazard area
- 100-year erosion hazard area
- Flagged: adjacent to landslide deposit
- Flagged: change between 1995-2018
- Flagged: adjacent to landslide and change observed
- Major road



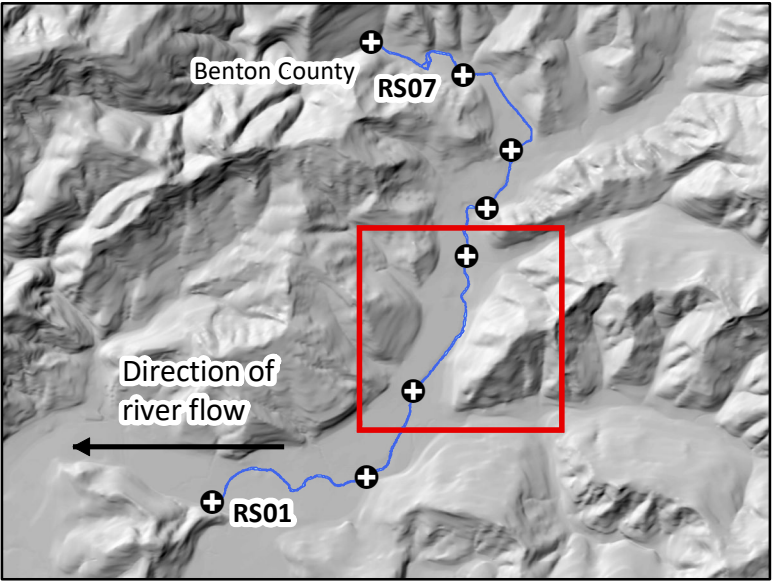
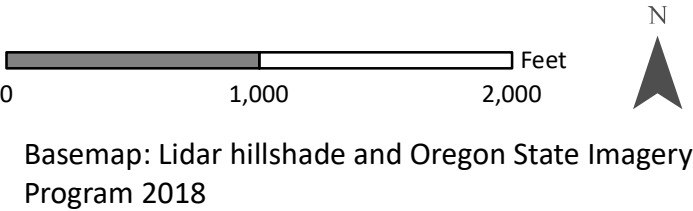
Location map with Alsea River, river segments, and current extent of map highlighted in red.



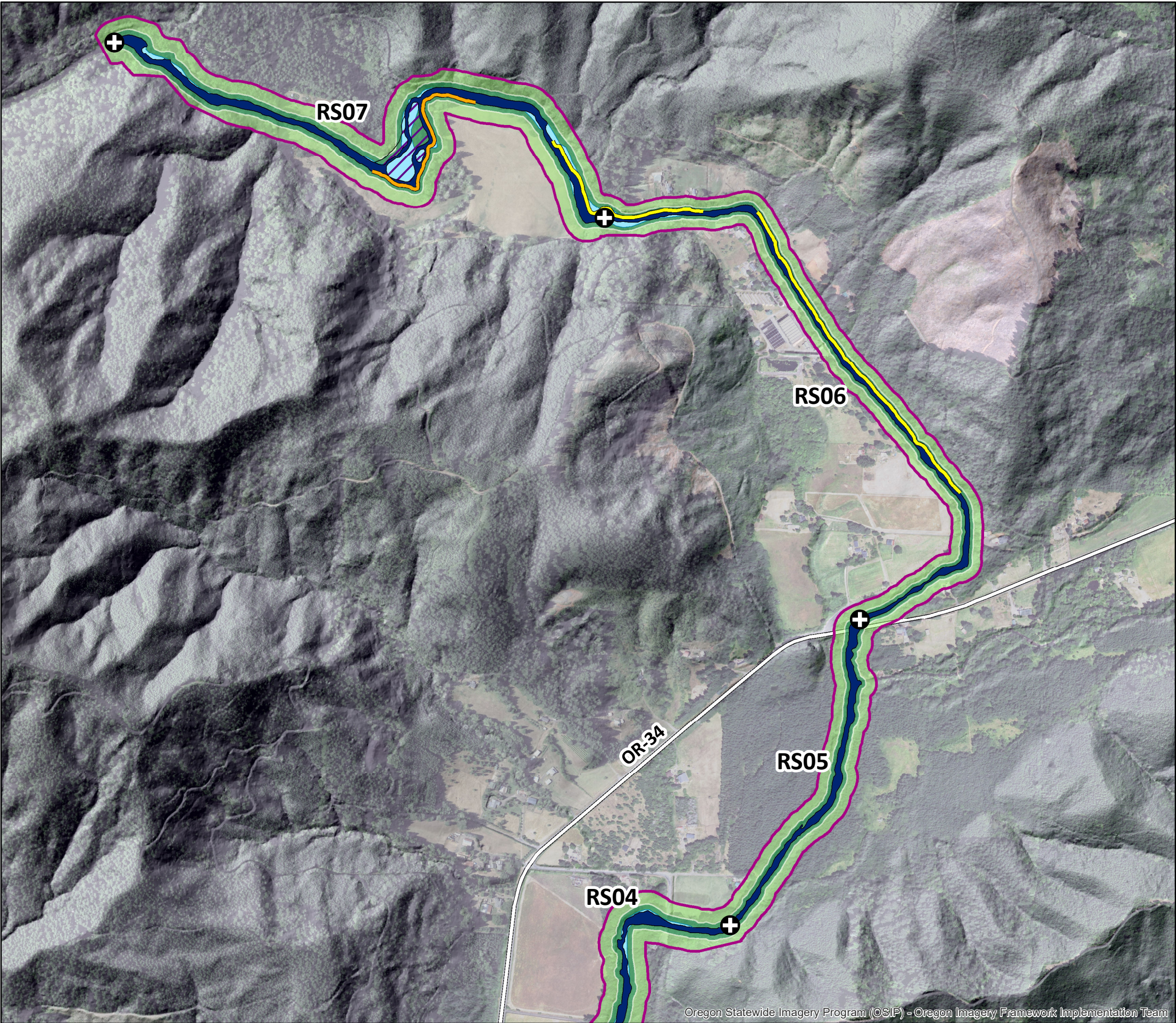
Appendix A of Flood Depth and Chanel Migration Zone Maps, Benton Marion, Morrow, and Washington Counties, Oregon

Benton County
North Fork Alsea River, River Segments 2-4

- River segment break points
- Channel migration zone
- Active channel
- Avulsion hazard area
- Historical migration area
- 30-year erosion hazard area
- 100-year erosion hazard area
- Flagged: adjacent to landslide deposit
- Flagged: change between 1995-2018
- Flagged: adjacent to landslide and change observed
- Major road



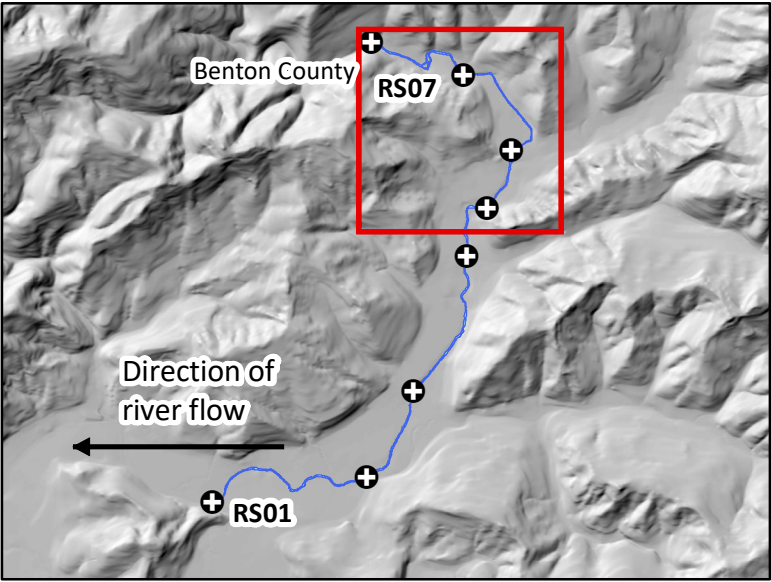
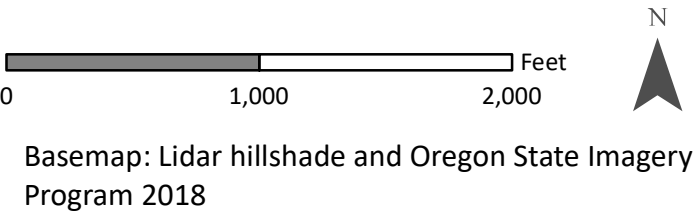
Location map with Alsea River, river segments, and current extent of map highlighted in red.



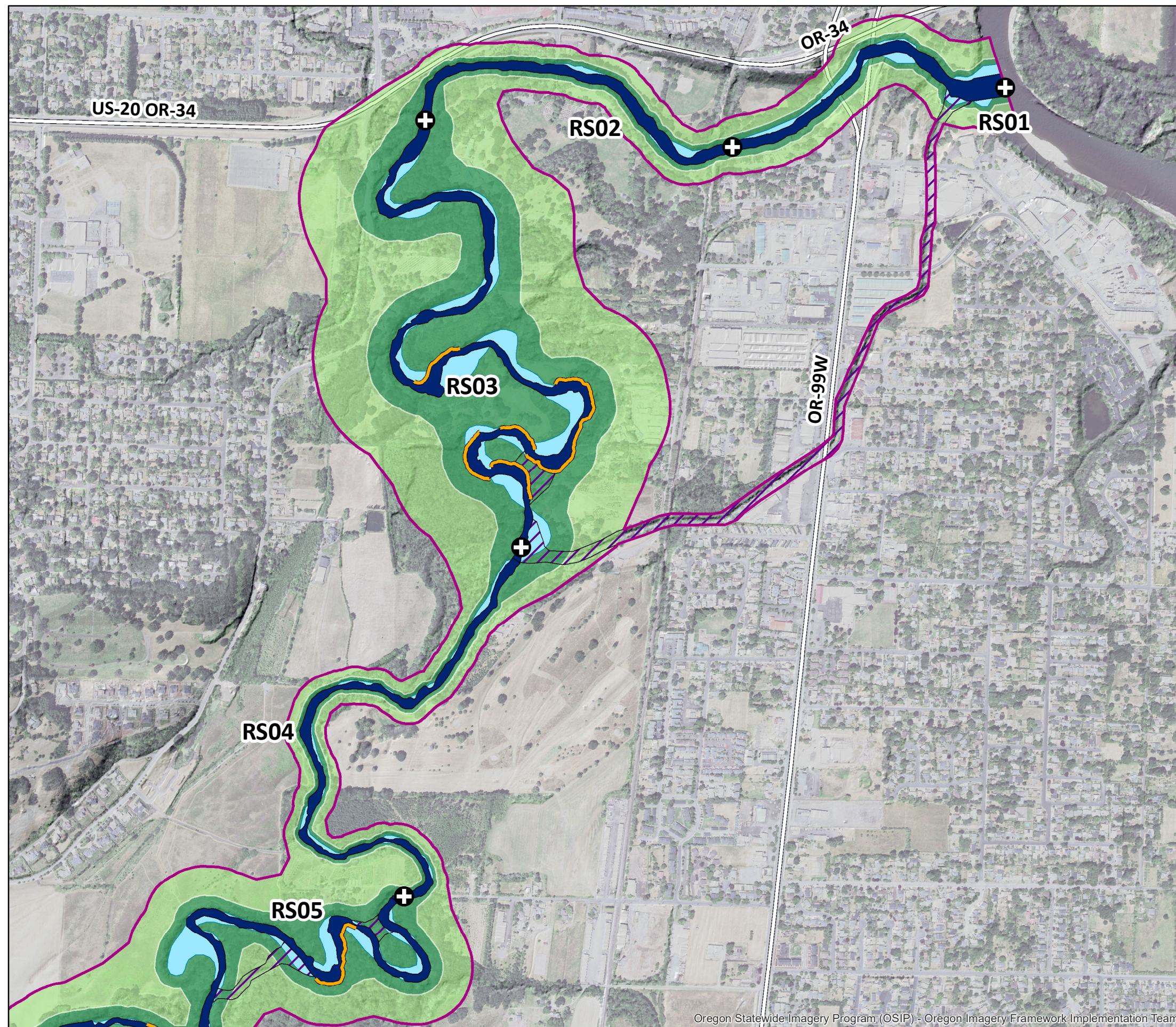
Appendix A of Flood Depth and Chanel Migration Zone Maps, Benton Marion, Morrow, and Washington Counties, Oregon

Benton County
North Fork Alsea River, River Segments 4-7

- ⊕ River segment break points
- Channel migration zone
- Active channel
- Avulsion hazard area
- Historical migration area
- 30-year erosion hazard area
- 100-year erosion hazard area
- Flagged: adjacent to landslide deposit
- Flagged: change between 1995-2018
- Flagged: adjacent to landslide and change observed
- Major road



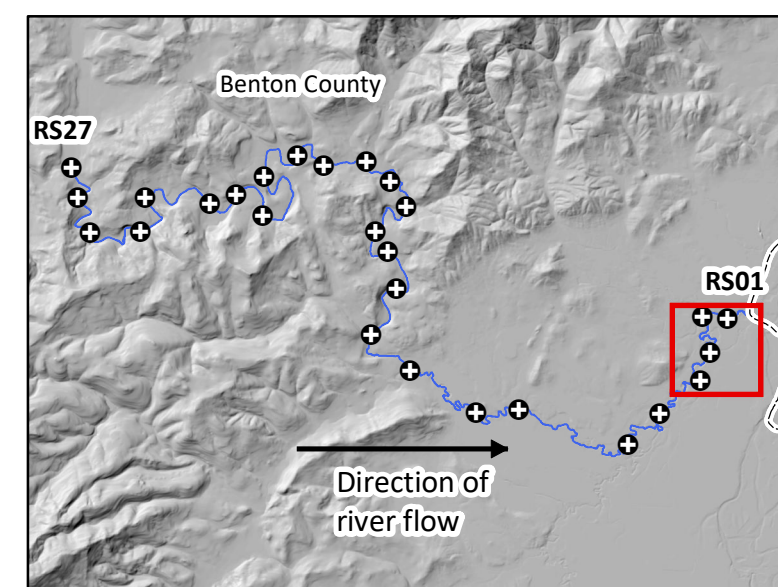
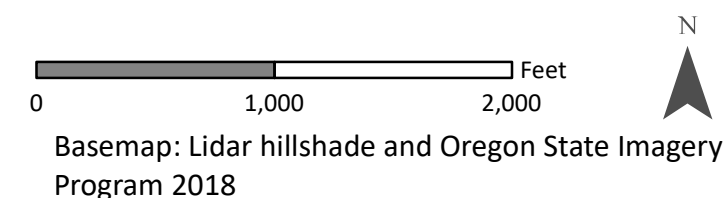
Location map with Alsea River, river segments, and current extent of map highlighted in red.



Appendix A of Flood Depth and Chanel Migration Zone Maps, Benton Marion, Morrow, and Washington Counties, Oregon

Benton County
Marys River, River Segments 1-5

- ⊕ River segment break points
- Channel migration zone
- Active channel
- Avulsion hazard area
- Historical migration area
- 30-year erosion hazard area
- 100-year erosion hazard area
- Flagged: adjacent to landslide deposit
- Flagged: change between 1995-2018
- Flagged: adjacent to landslide and change observed
- Major road

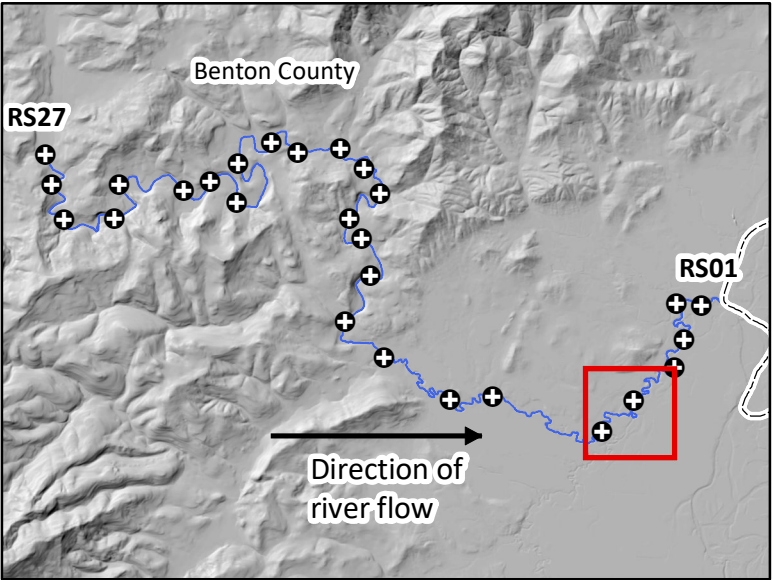
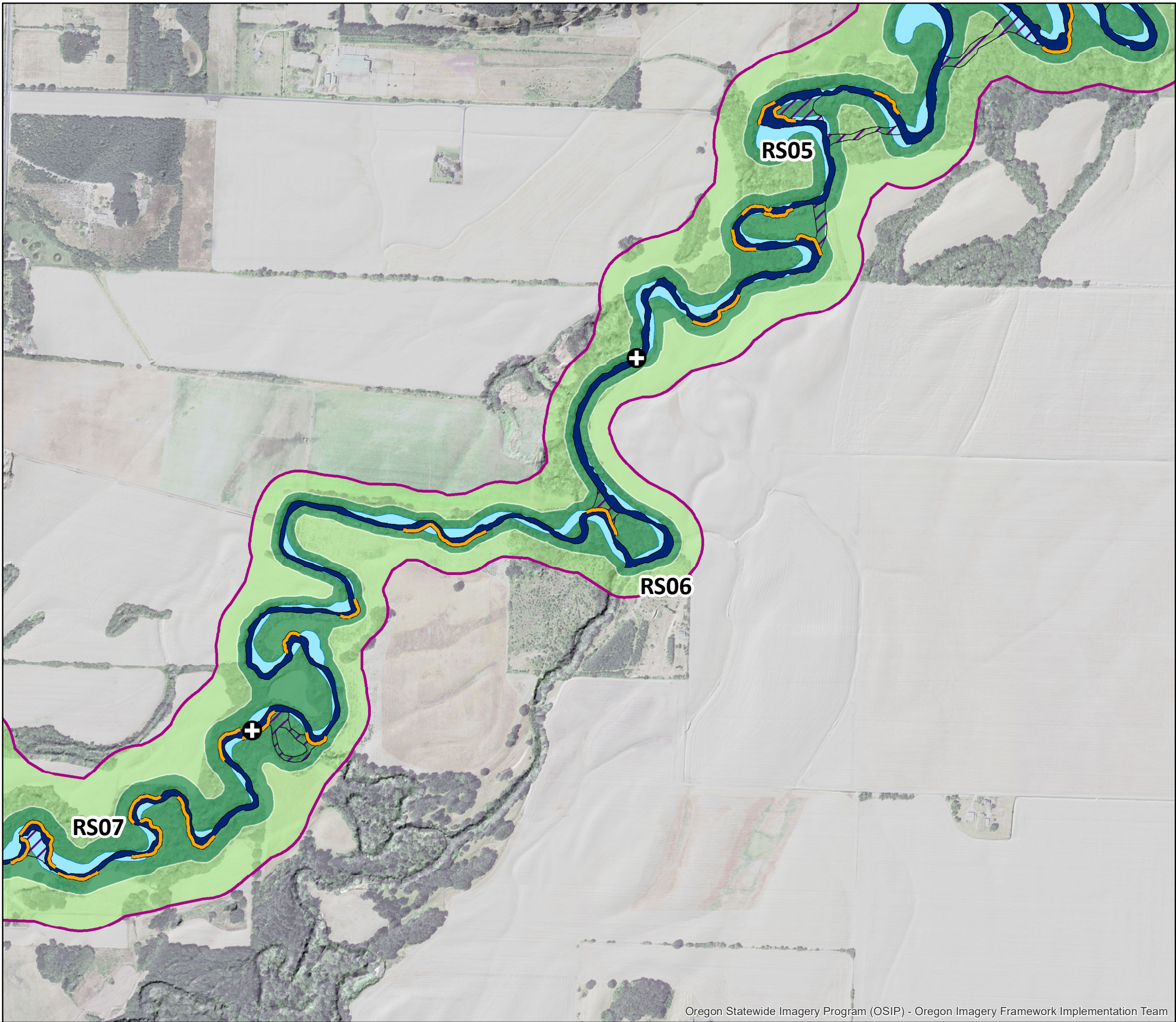
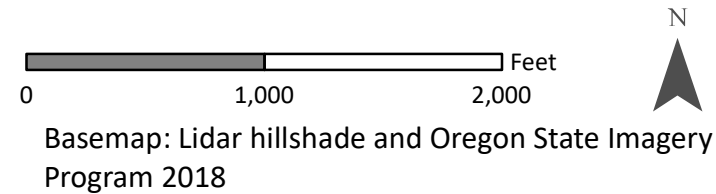


Location map with Marys River, river segments, and current extent of map highlighted in red.

Appendix A of Flood Depth and Chanel Migration Zone Maps, Benton Marion, Morrow, and Washington Counties, Oregon

Benton County
Marys River, River Segments 5-7

- ⊕ River segment break points
- Channel migration zone
- Active channel
- Avulsion hazard area
- Historical migration area
- 30-year erosion hazard area
- 100-year erosion hazard area
- Flagged: adjacent to landslide deposit
- Flagged: change between 1995-2018
- Flagged: adjacent to landslide and change observed
- Major road

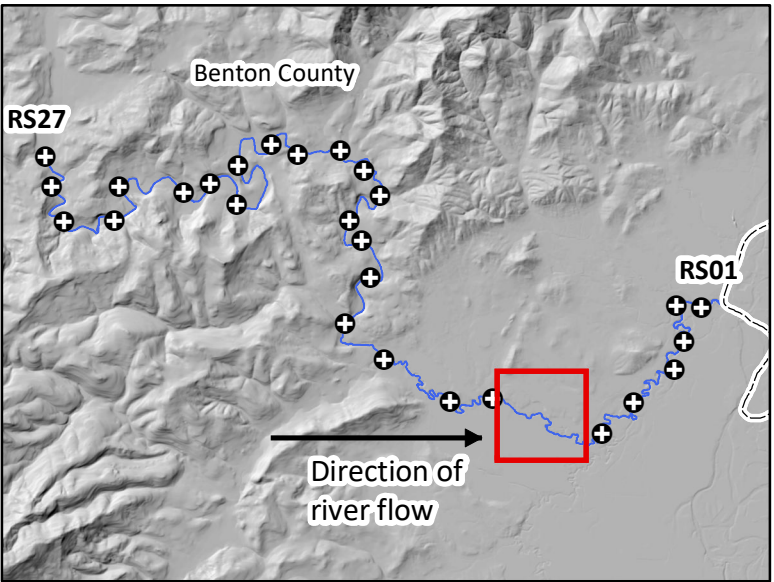
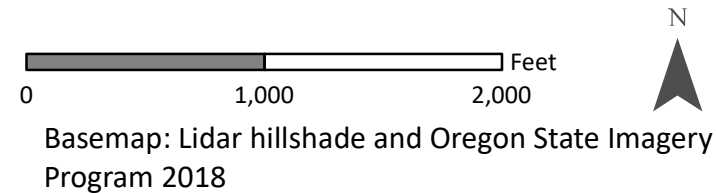


Location map with Marys River, river segments, and current extent of map highlighted in red.

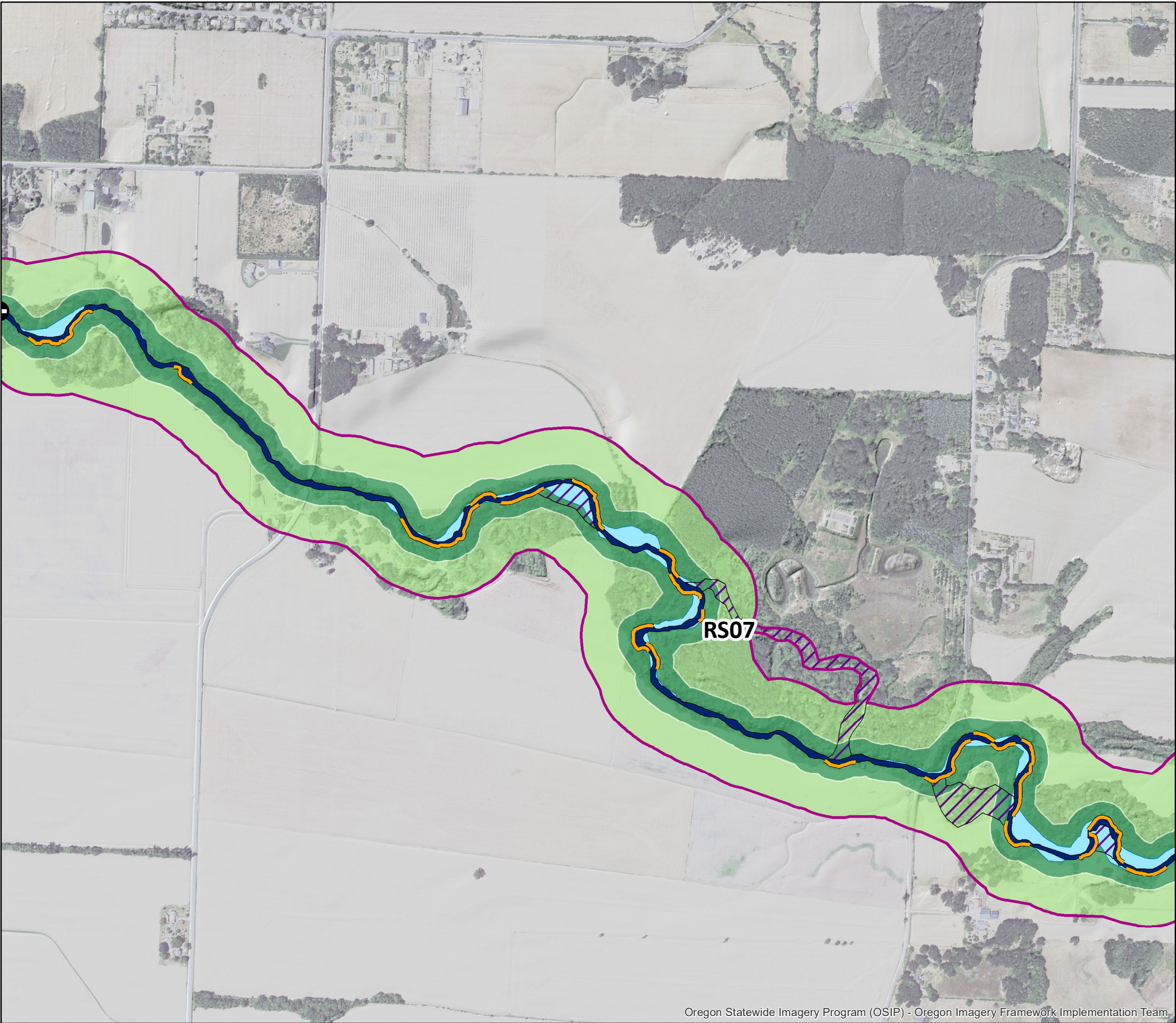
Appendix A of Flood Depth and Chanel Migration Zone Maps, Benton Marion, Morrow, and Washington Counties, Oregon

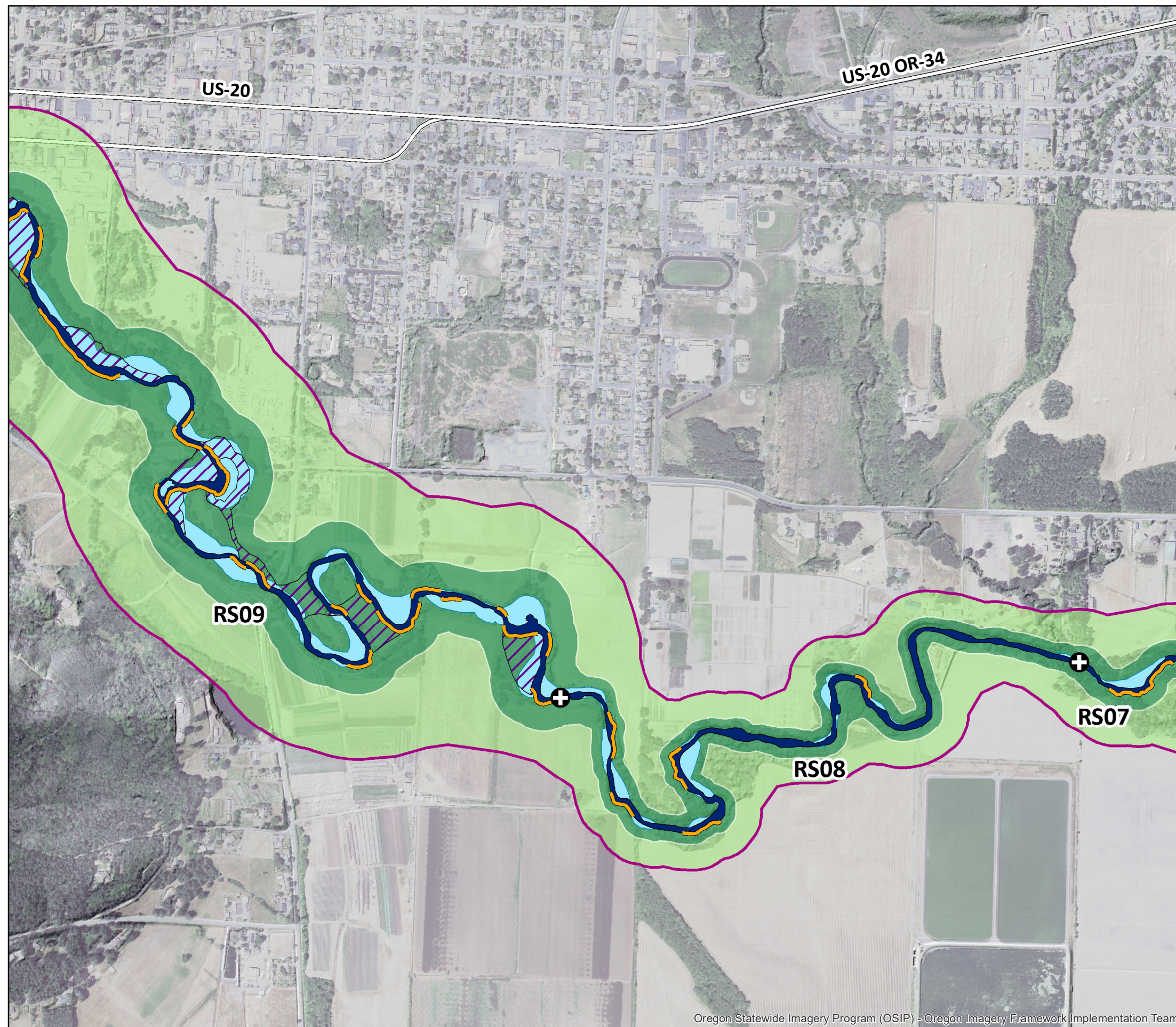
Benton County
Marys River, River Segment 7

- ⊕ River segment break points
- Channel migration zone
- Active channel
- Avulsion hazard area
- Historical migration area
- 30-year erosion hazard area
- 100-year erosion hazard area
- Flagged: adjacent to landslide deposit
- Flagged: change between 1995-2018
- Flagged: adjacent to landslide and change observed
- Major road



Location map with Marys River, river segments, and current extent of map highlighted in red.



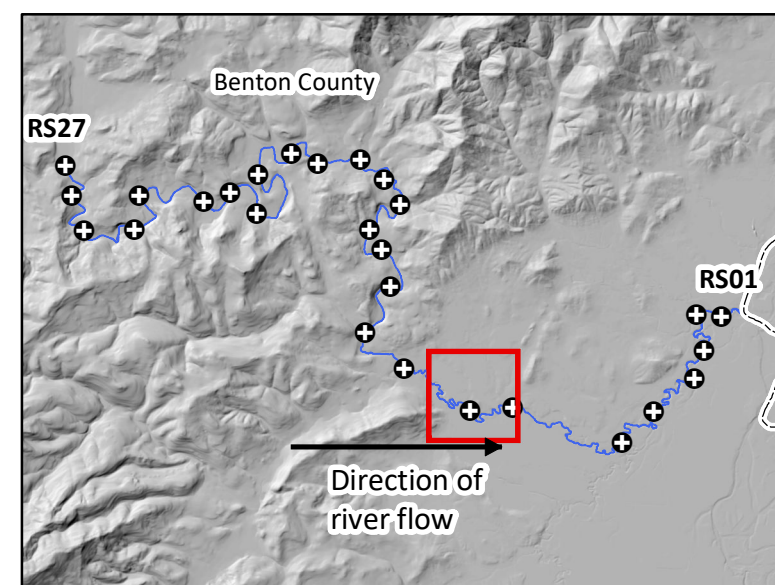
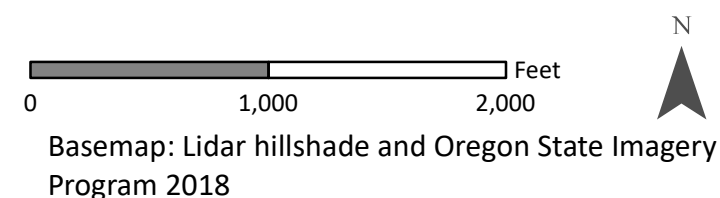


Appendix A of Flood Depth and Chanel Migration Zone Maps, Benton Marion, Morrow, and Washington Counties, Oregon

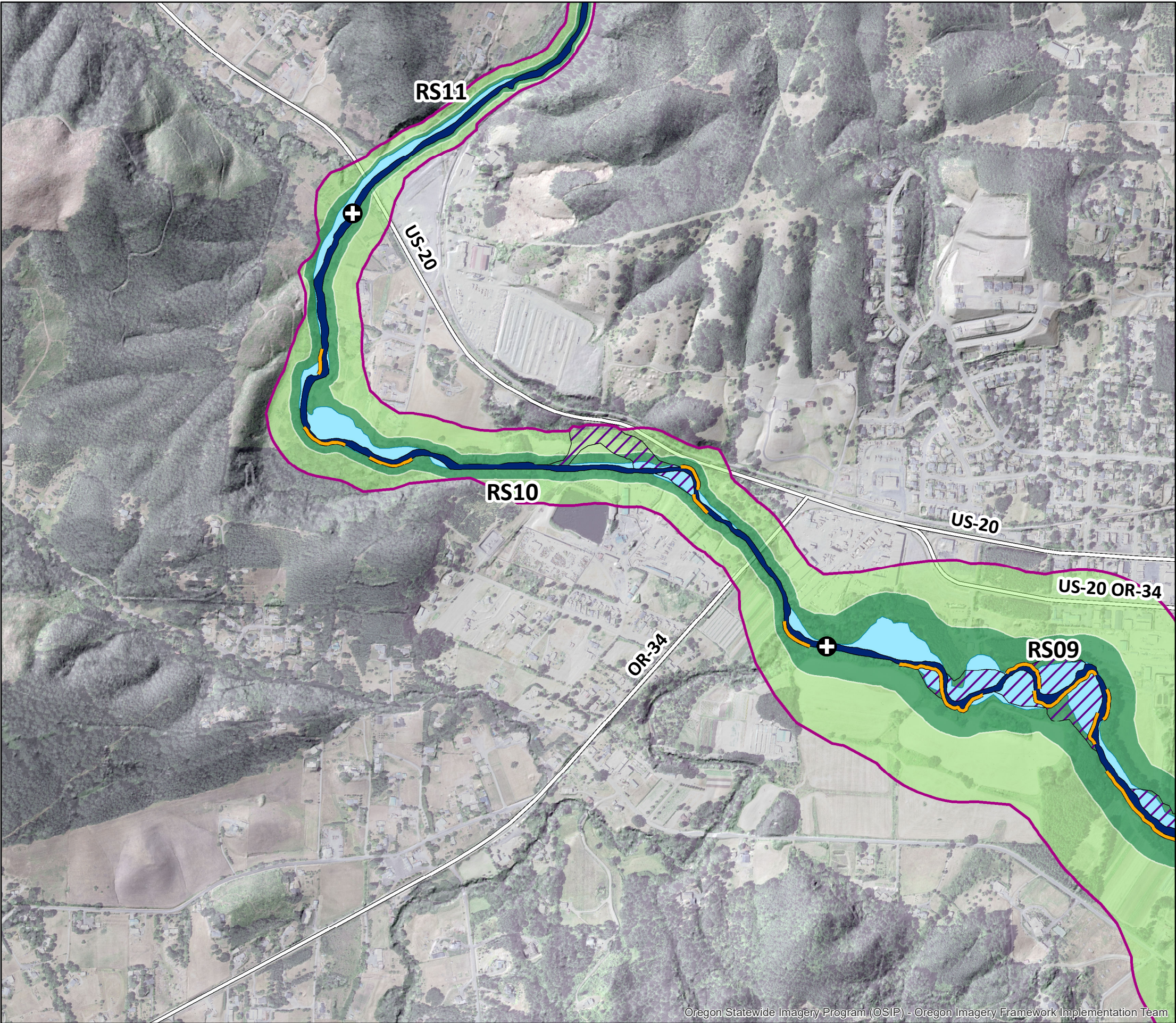
Benton County

Marys River, River Segments 7-9

- ⊕ River segment break points
- Channel migration zone
- Active channel
- Avulsion hazard area
- Historical migration area
- 30-year erosion hazard area
- 100-year erosion hazard area
- Flagged: adjacent to landslide deposit
- Flagged: change between 1995-2018
- Flagged: adjacent to landslide and change observed
- Major road



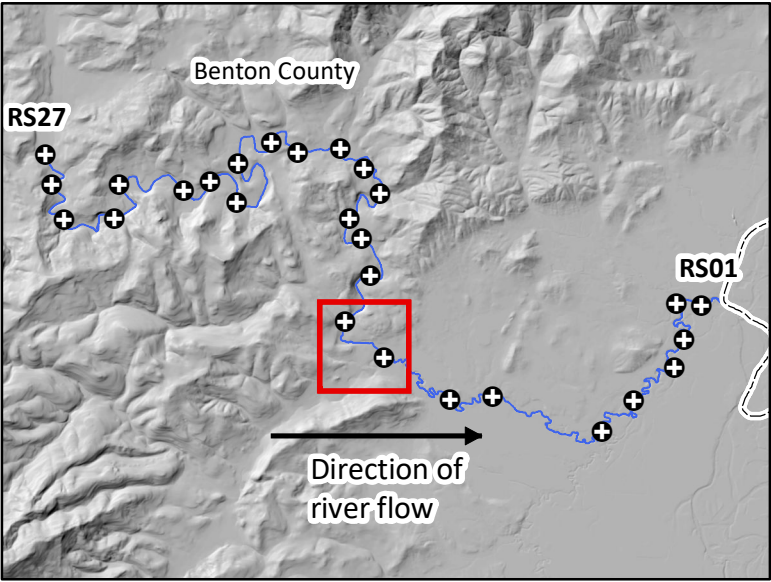
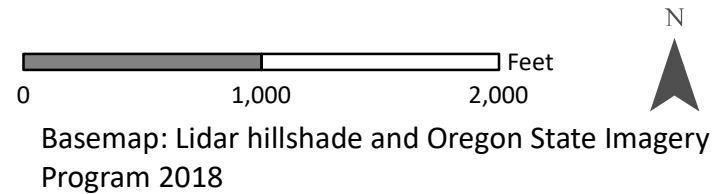
Location map with Marys River, river segments, and current extent of map highlighted in red.



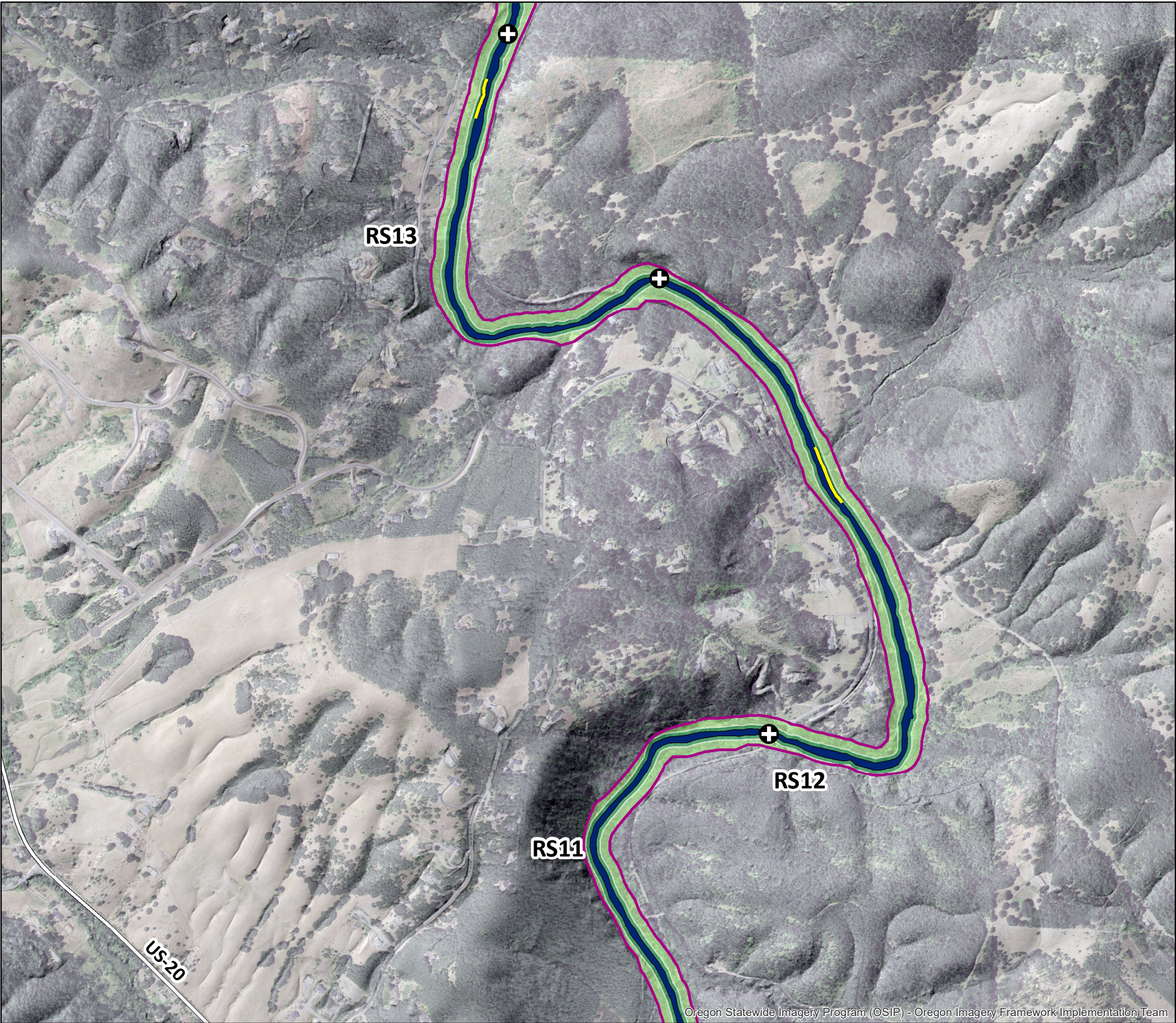
Appendix A of Flood Depth and Chanel Migration Zone Maps, Benton Marion, Morrow, and Washington Counties, Oregon

Benton County
Marys River, River Segments 9-11

- River segment break points
- Channel migration zone
- Active channel
- Avulsion hazard area
- Historical migration area
- 30-year erosion hazard area
- 100-year erosion hazard area
- Flagged: adjacent to landslide deposit
- Flagged: change between 1995-2018
- Flagged: adjacent to landslide and change observed
- Major road



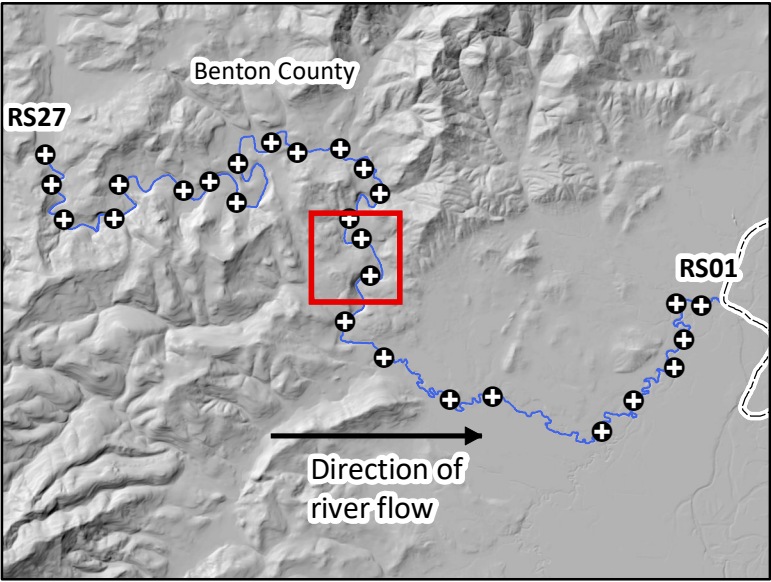
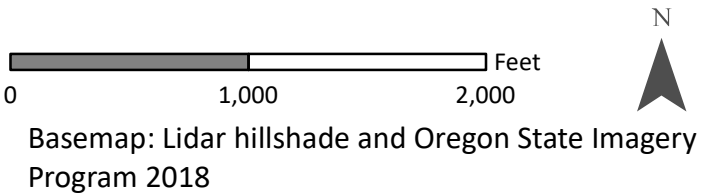
Location map with Marys River, river segments, and current extent of map highlighted in red.



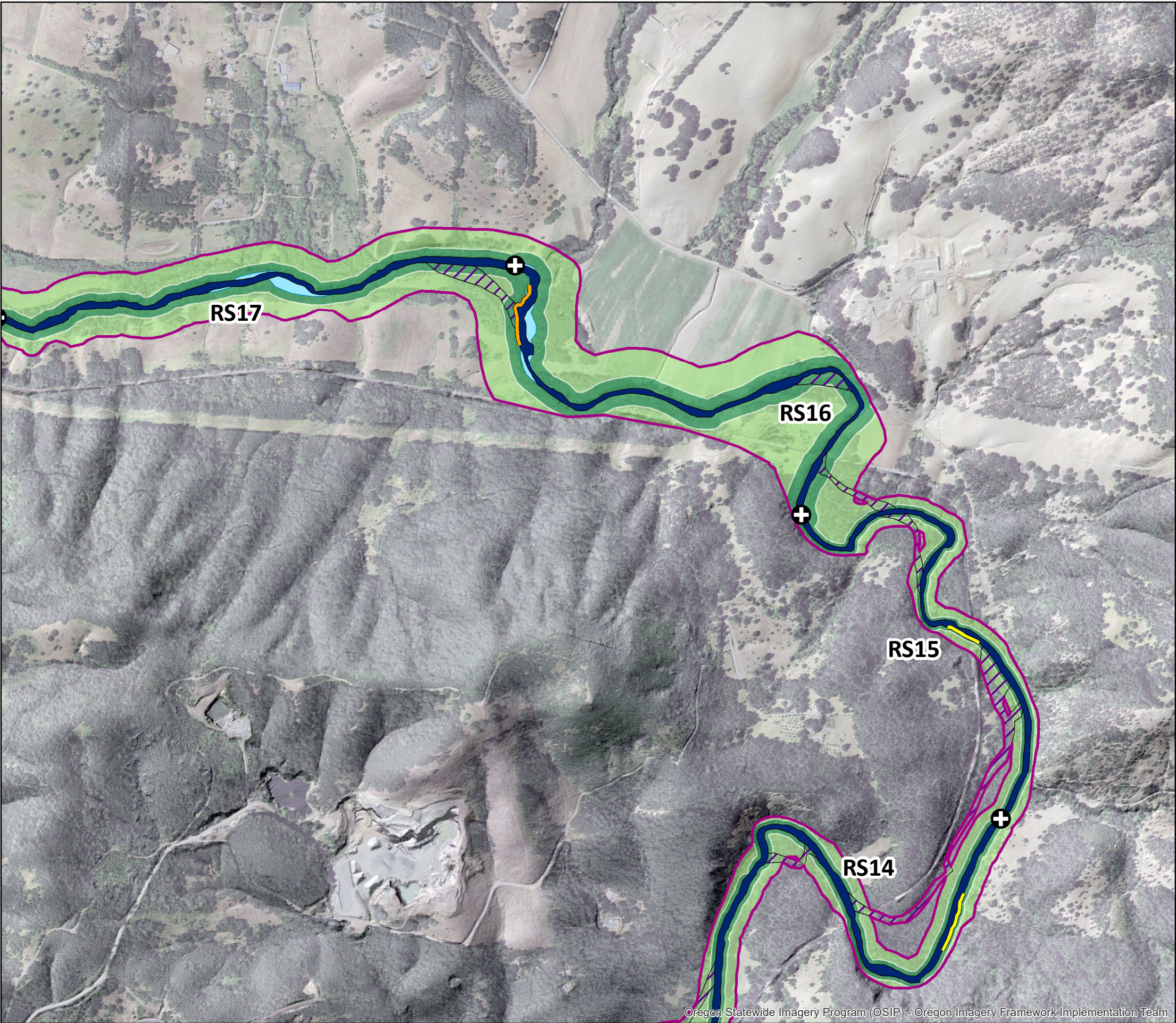
Appendix A of Flood Depth and Chanel Migration Zone Maps, Benton Marion, Morrow, and Washington Counties, Oregon

Benton County
 Marys River, River Segments 11-13

- River segment break points
- Channel migration zone
- Active channel
- Avulsion hazard area
- Historical migration area
- 30-year erosion hazard area
- 100-year erosion hazard area
- Flagged: adjacent to landslide deposit
- Flagged: change between 1995-2018
- Flagged: adjacent to landslide and change observed
- Major road



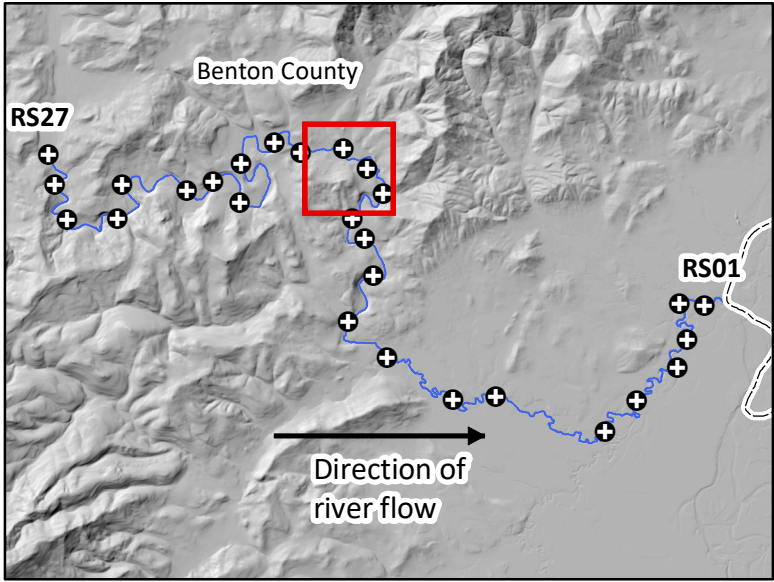
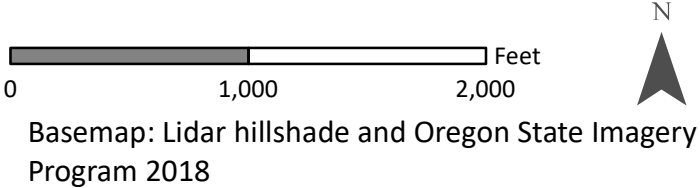
Location map with Marys River, river segments, and current extent of map highlighted in red.



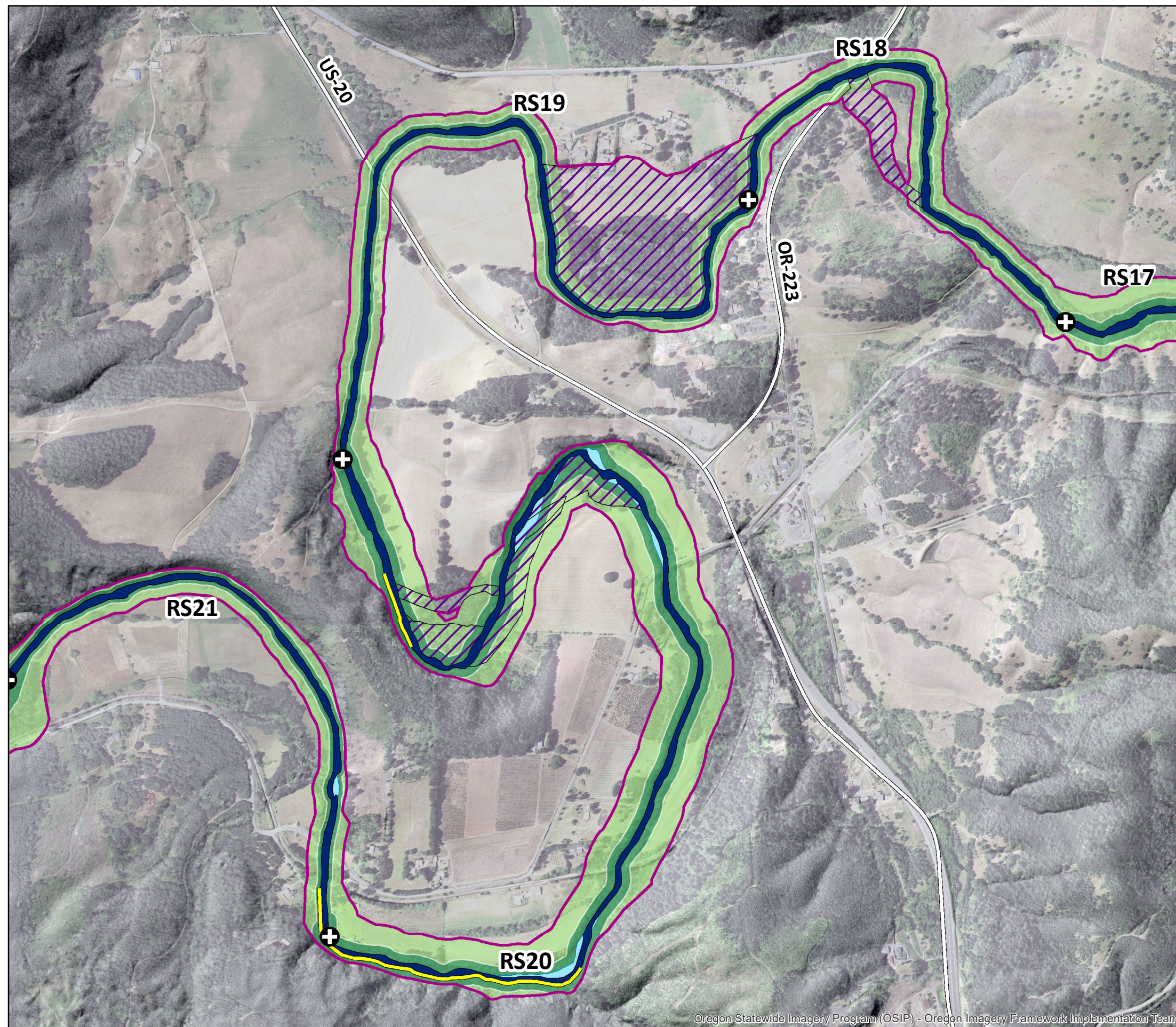
Appendix A of Flood Depth and Chanel Migration Zone Maps, Benton Marion, Morrow, and Washington Counties, Oregon

Benton County
Marys River, River Segments 14-17

- ⊕ River segment break points
- Channel migration zone
- Active channel
- Avulsion hazard area
- Historical migration area
- 30-year erosion hazard area
- 100-year erosion hazard area
- Flagged: adjacent to landslide deposit
- Flagged: change between 1995-2018
- Flagged: adjacent to landslide and change observed
- Major road














Location map with Marys River, river segments, and current extent of map highlighted in red.



Appendix A of Flood Depth and Chanel Migration Zone Maps, Benton Marion, Morrow, and Washington Counties, Oregon

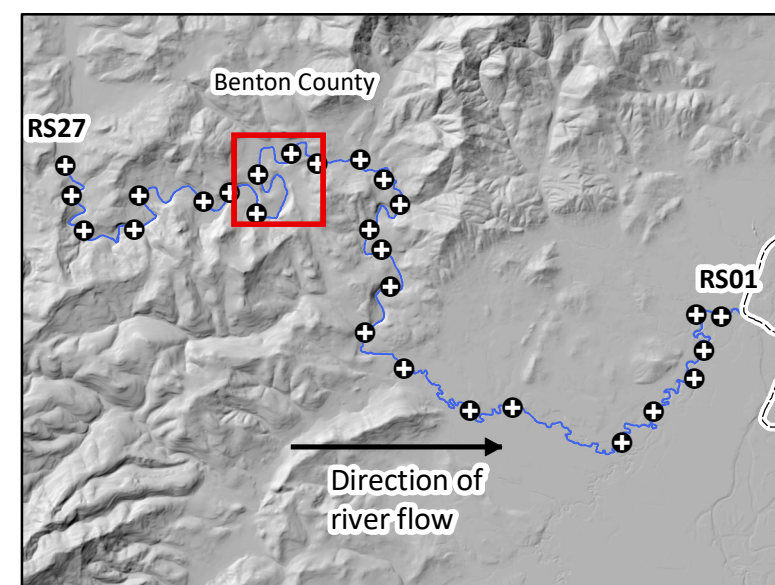
Benton County

Marys River, River Segments 17-21

-  River segment break points
-  Channel migration zone
-  Active channel
-  Avulsion hazard area
-  Historical migration area
-  30-year erosion hazard area
-  100-year erosion hazard area
-  Flagged: adjacent to landslide deposit
-  Flagged: change between 1995-2018
-  Flagged: adjacent to landslide and change observed
-  Major road

0 1,000 2,000 Feet

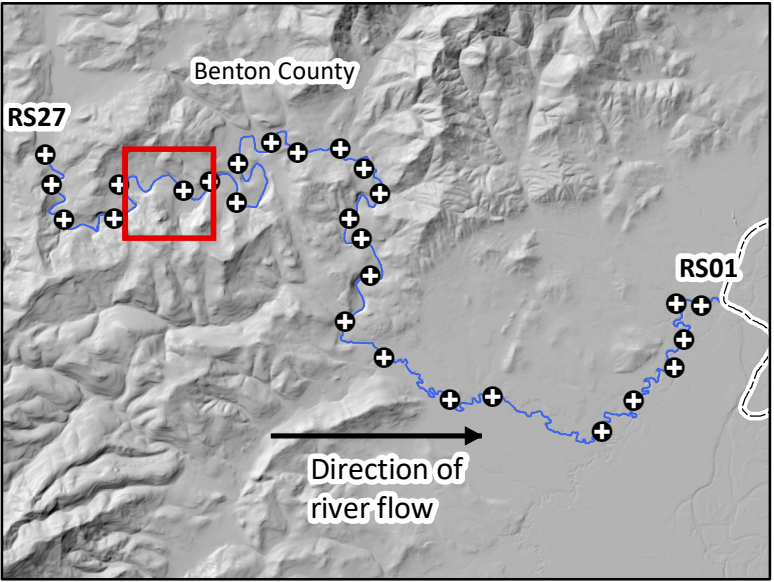
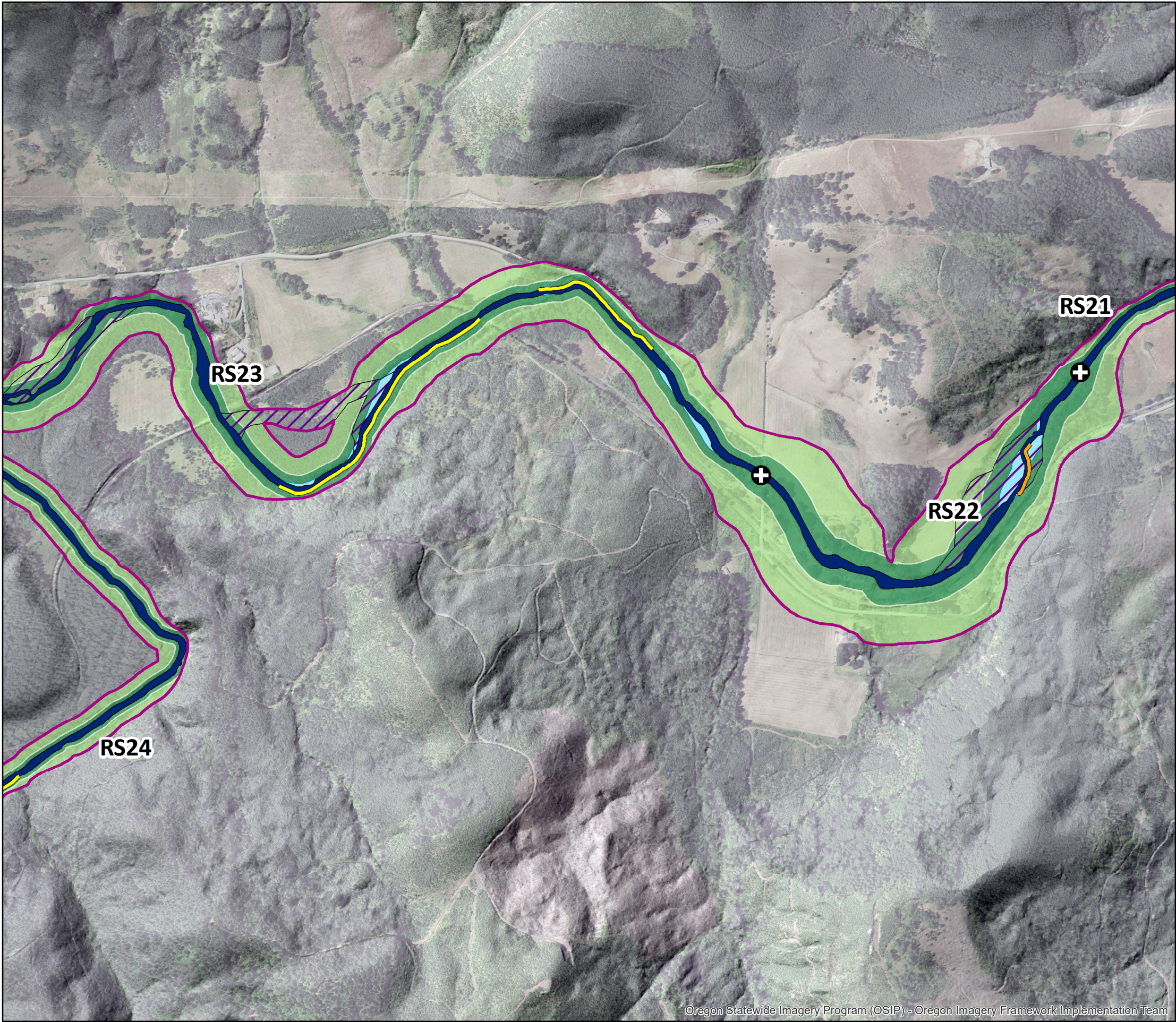
Basemap: Lidar hillshade and Oregon State Imagery Program 2018



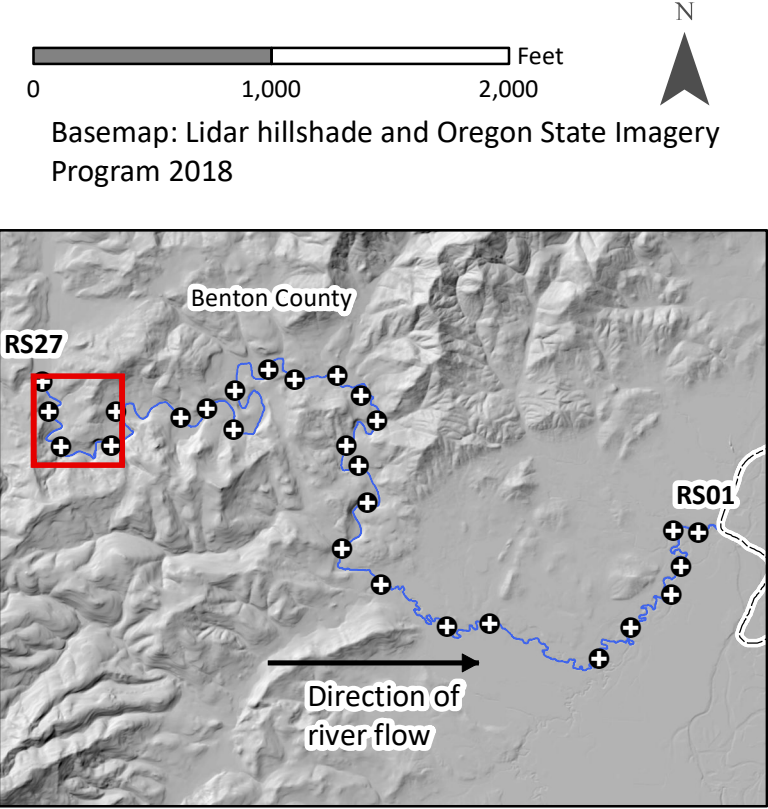
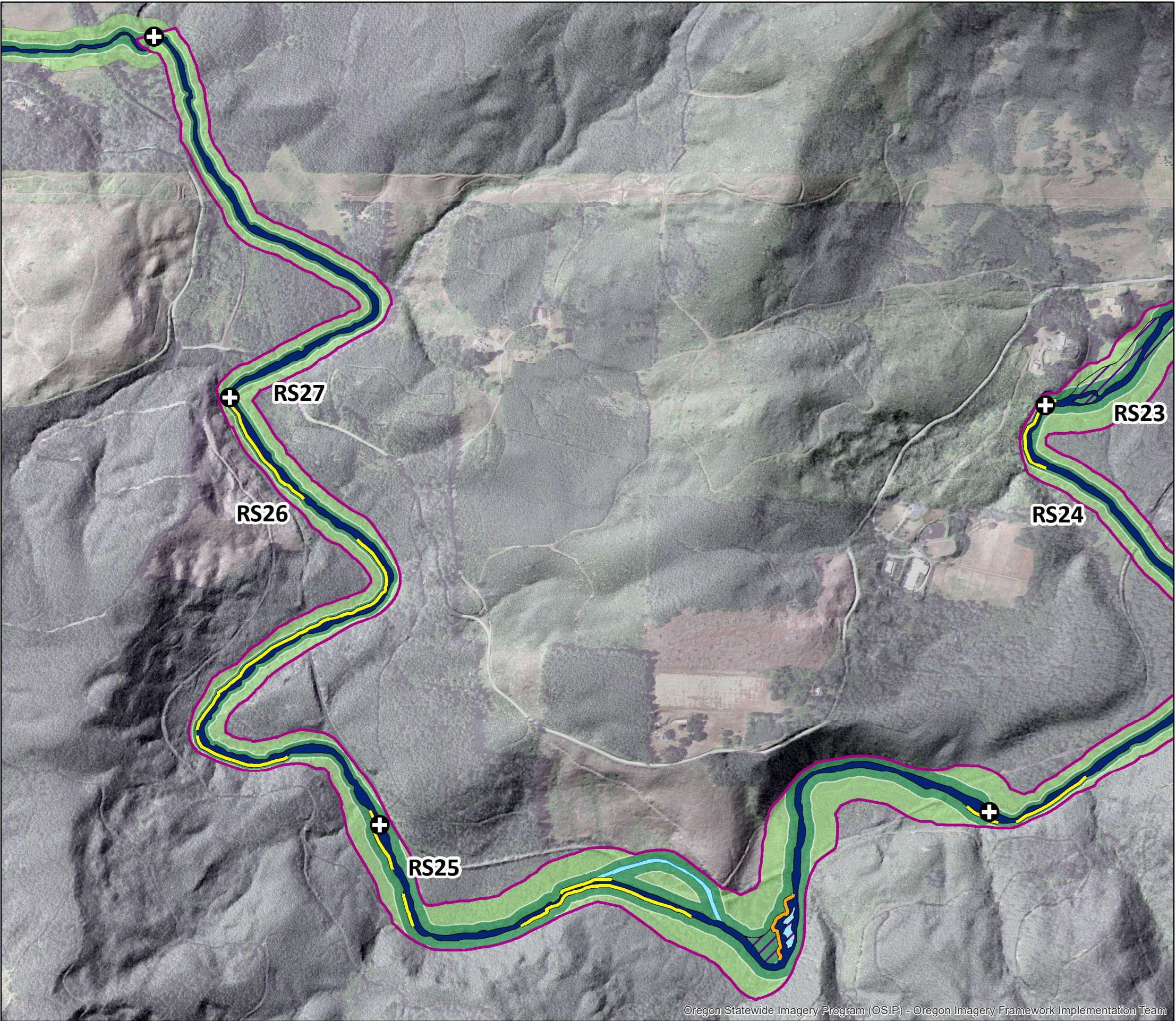
Location map with Marys River, river segments, and current extent of map highlighted in red.

Appendix A of Flood Depth and Chanel Migration Zone Maps, Benton Marion, Morrow, and Washington Counties, Oregon

Benton County
Marys River, River Segments 22-24



Location map with Marys River, river segments, and current extent of map highlighted in red.

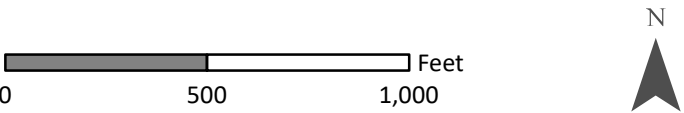


Location map with Marys River, river segments, and current extent of map highlighted in red.

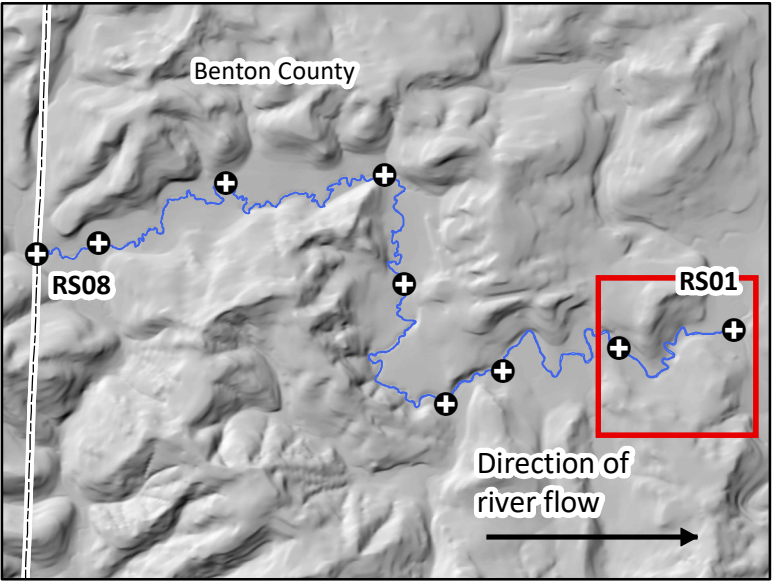
Appendix A of Flood Depth and Chanel Migration Zone Maps, Benton Marion, Morrow, and Washington Counties, Oregon

Benton County
Tumtum River, River Segments 1-2

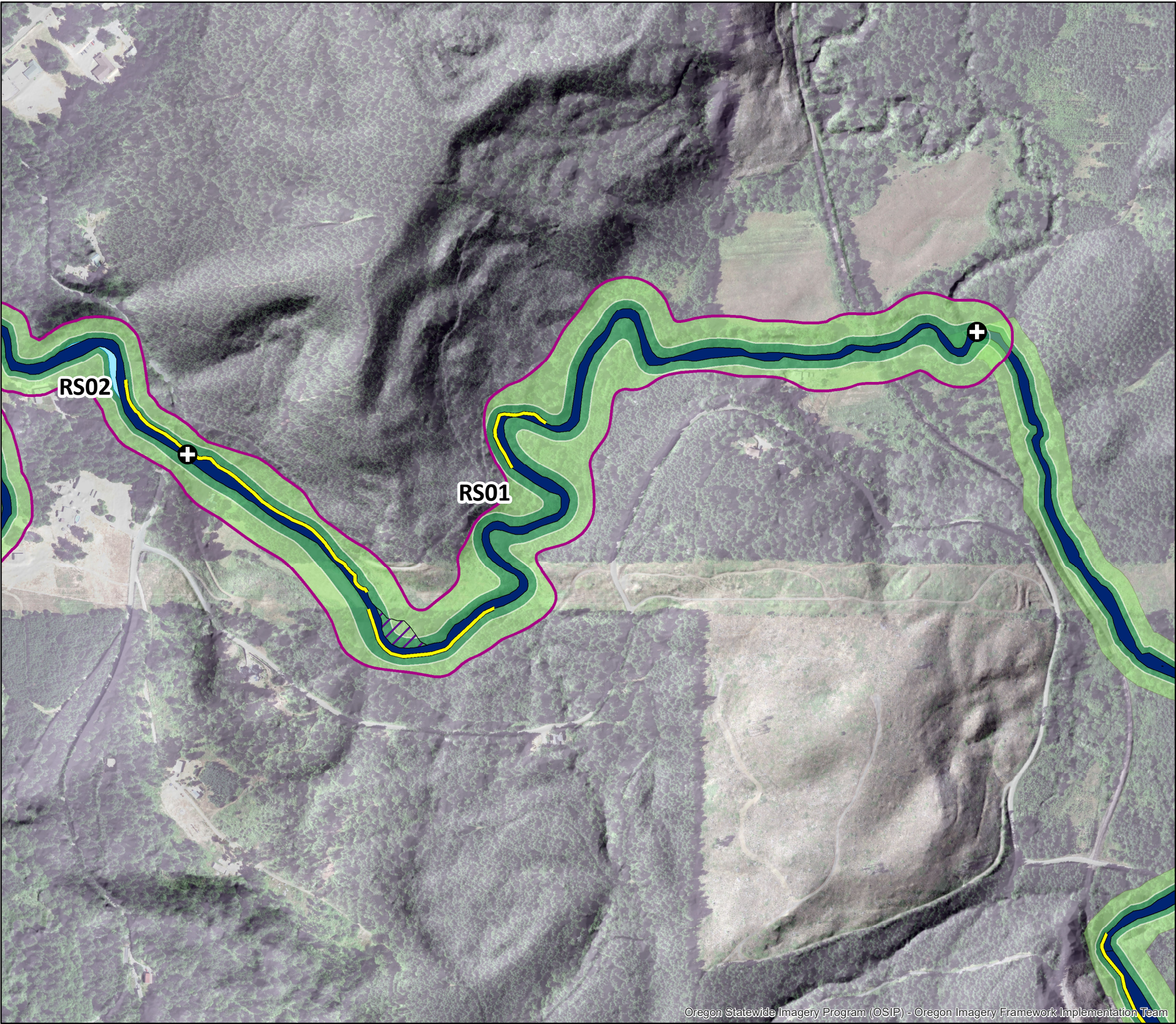
- ⊕ River segment break points
- Channel migration zone
- Active channel
- Avulsion hazard area
- Historical migration area
- 30-year erosion hazard area
- 100-year erosion hazard area
- Flagged: adjacent to landslide deposit
- Flagged: change between 1995-2018
- Flagged: adjacent to landslide and change observed
- Major road



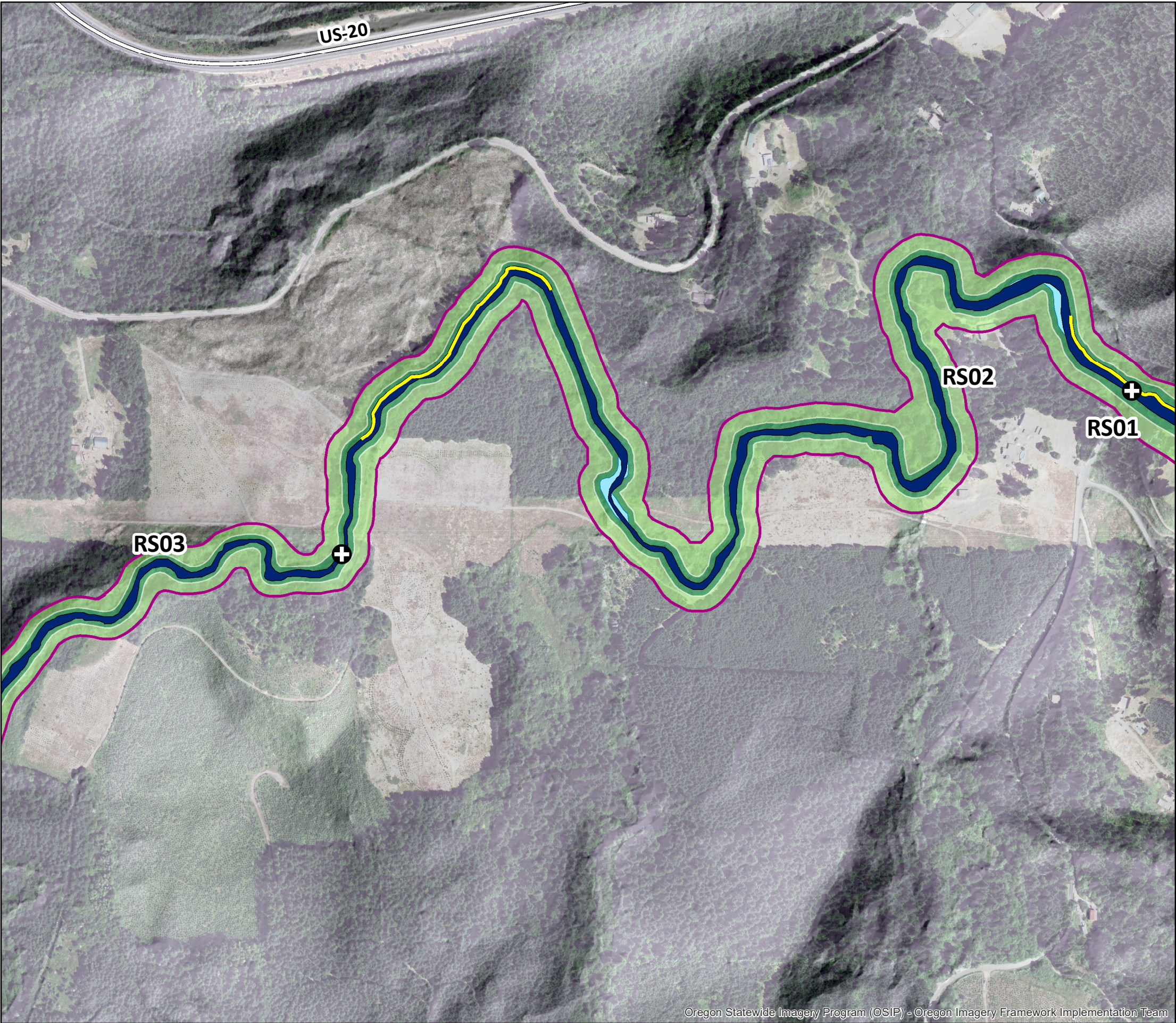
Basemap: Lidar hillshade and Oregon State Imagery Program 2018



Location map with Tumtum River, river segments, and current extent of map highlighted in red.



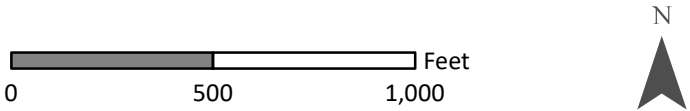
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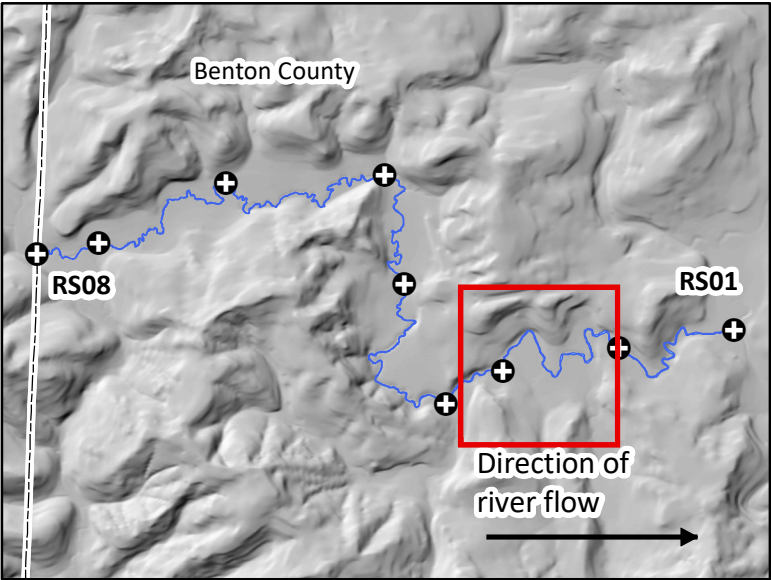
Appendix A of Flood Depth and Chanel Migration Zone Maps, Benton Marion, Morrow, and Washington Counties, Oregon

Benton County
Tumtum River, River Segments 2-3

- ⊕ River segment break points
- Channel migration zone
- Active channel
- Avulsion hazard area
- Historical migration area
- 30-year erosion hazard area
- 100-year erosion hazard area
- Flagged: adjacent to landslide deposit
- Flagged: change between 1995-2018
- Flagged: adjacent to landslide and change observed
- Major road



Basemap: Lidar hillshade and Oregon State Imagery Program 2018

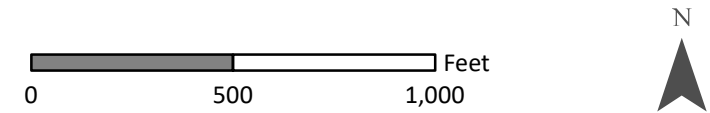


Location map with Tumtum River, river segments, and current extent of map highlighted in red.

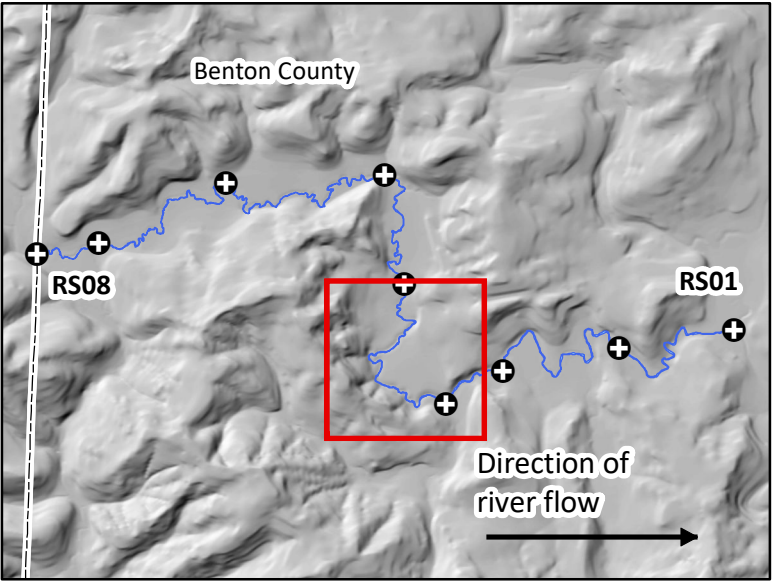
Appendix A of Flood Depth and Chanel Migration Zone Maps, Benton Marion, Morrow, and Washington Counties, Oregon

Benton County
Tumtum River, River Segments 3-4

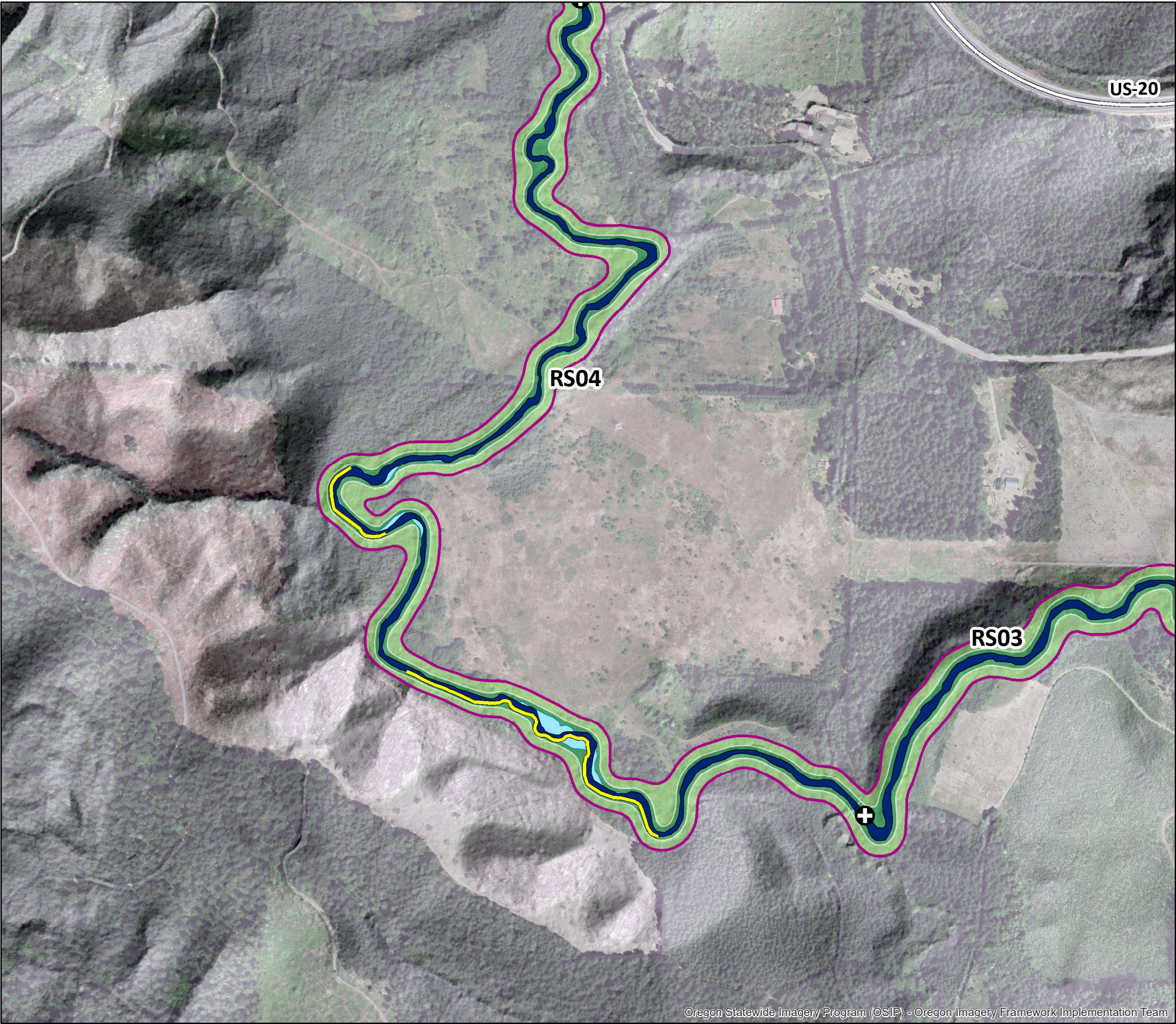
- ⊕ River segment break points
- Channel migration zone
- Active channel
- Avulsion hazard area
- Historical migration area
- 30-year erosion hazard area
- 100-year erosion hazard area
- Flagged: adjacent to landslide deposit
- Flagged: change between 1995-2018
- Flagged: adjacent to landslide and change observed
- Major road



Basemap: Lidar hillshade and Oregon State Imagery Program 2018



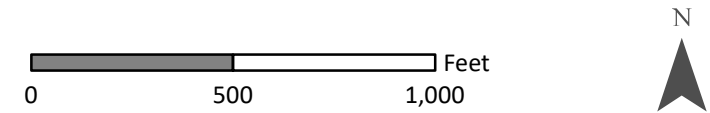
Location map with Tumtum River, river segments, and current extent of map highlighted in red.



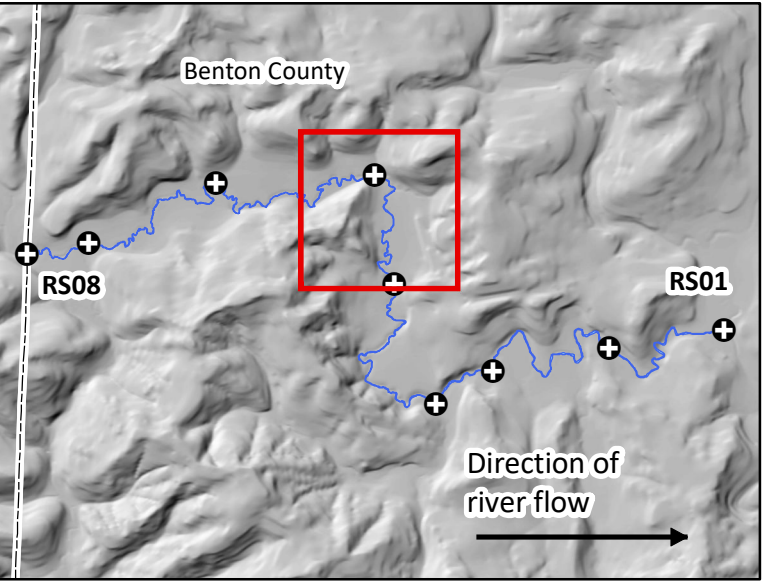
Appendix A of Flood Depth and Chanel Migration Zone Maps, Benton Marion, Morrow, and Washington Counties, Oregon

Benton County
Tumtum River, River Segments 5-6

- ⊕ River segment break points
- Channel migration zone
- Active channel
- Avulsion hazard area
- Historical migration area
- 30-year erosion hazard area
- 100-year erosion hazard area
- Flagged: adjacent to landslide deposit
- Flagged: change between 1995-2018
- Flagged: adjacent to landslide and change observed
- Major road



Basemap: Lidar hillshade and Oregon State Imagery Program 2018



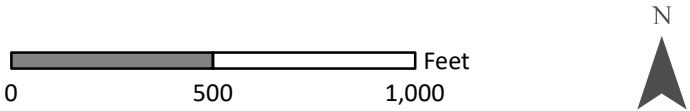
Location map with Tumtum River, river segments, and current extent of map highlighted in red.



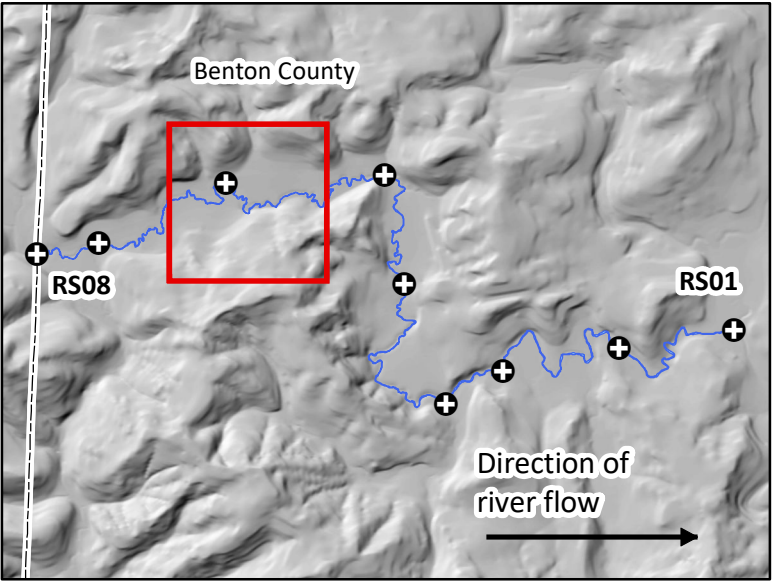
Appendix A of Flood Depth and Chanel Migration Zone Maps, Benton Marion, Morrow, and Washington Counties, Oregon

Benton County
Tumtum River, River Segments 6-7

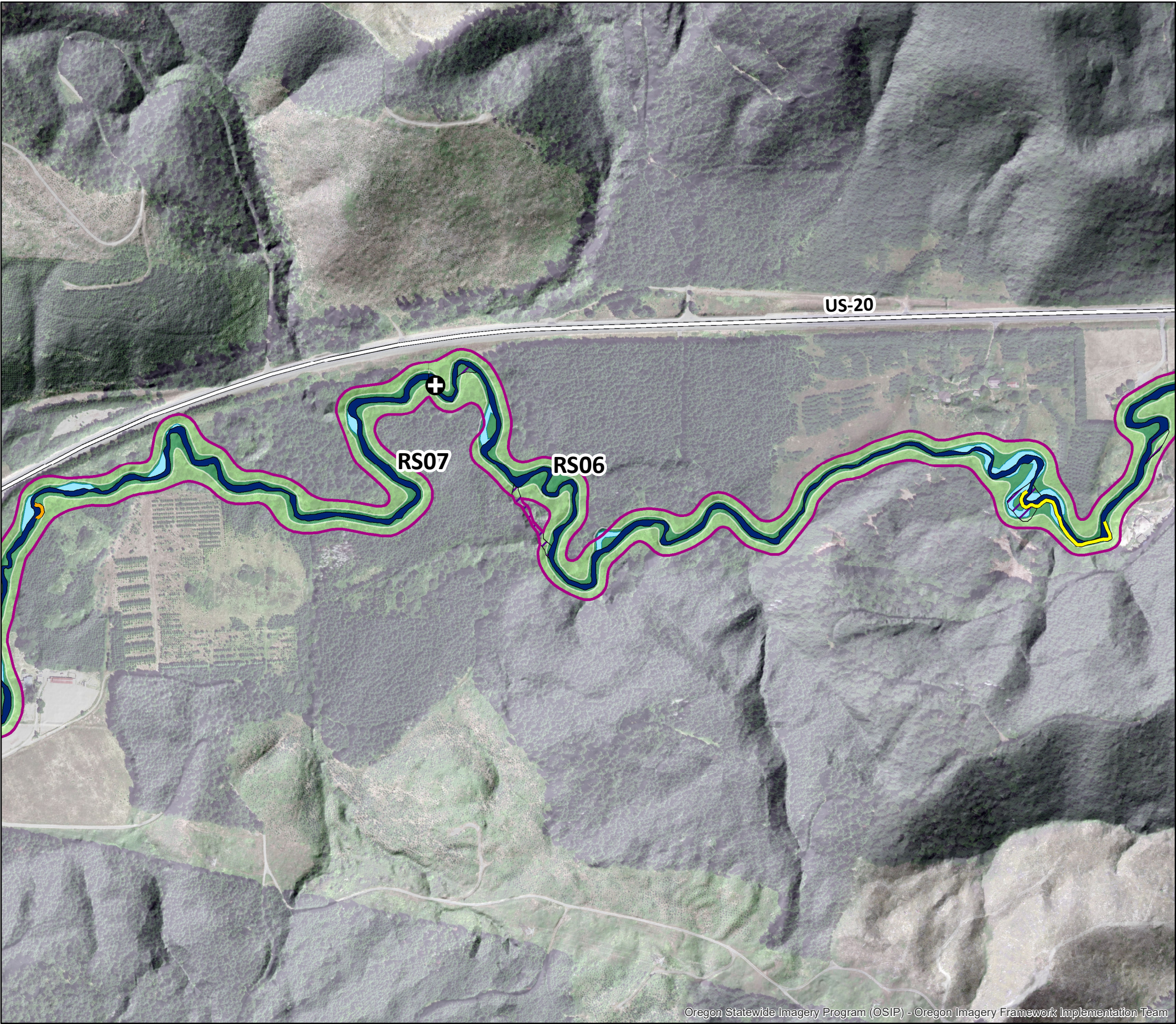
- ⊕ River segment break points
- Channel migration zone
- Active channel
- Avulsion hazard area
- Historical migration area
- 30-year erosion hazard area
- 100-year erosion hazard area
- Flagged: adjacent to landslide deposit
- Flagged: change between 1995-2018
- Flagged: adjacent to landslide and change observed
- Major road



Basemap: Lidar hillshade and Oregon State Imagery Program 2018



Location map with Tumtum River, river segments, and current extent of map highlighted in red.

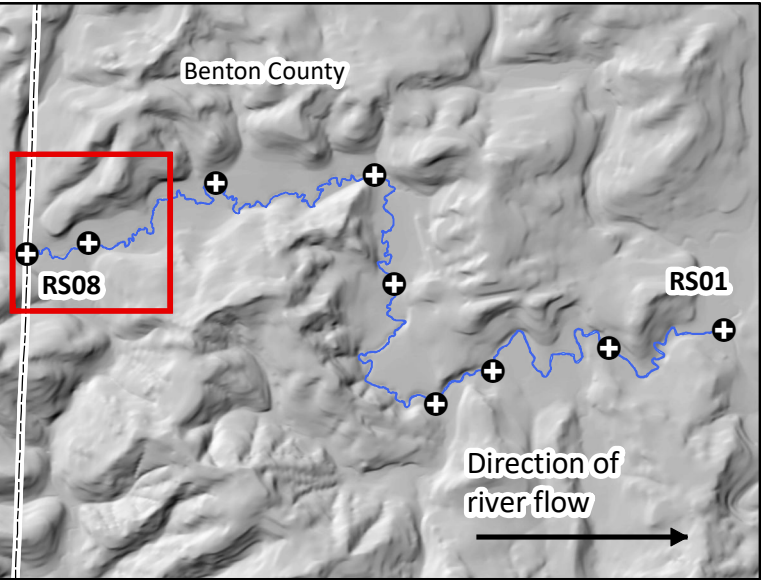
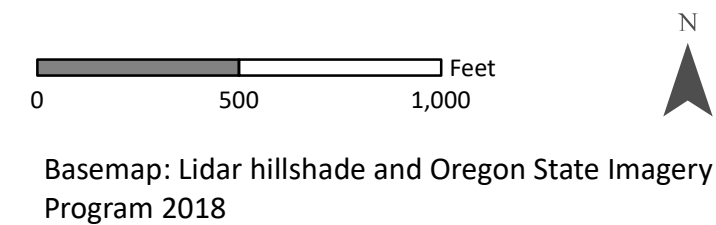


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Appendix A of Flood Depth and Chanel Migration Zone Maps, Benton Marion, Morrow, and Washington Counties, Oregon

Benton County
Tumtum River, River Segments 7-8

- ⊕ River segment break points
- Channel migration zone
- Active channel
- Avulsion hazard area
- Historical migration area
- 30-year erosion hazard area
- 100-year erosion hazard area
- Flagged: adjacent to landslide deposit
- Flagged: change between 1995-2018
- Flagged: adjacent to landslide and change observed
- Major road



Location map with Tumtum River, river segments, and current extent of map highlighted in red.

