

A Summary  
of  
**STREAM CROSSINGS**  
and  
**FISH PASSAGE BARRIERS**

Pend Oreille Watershed (WRIA 62)



Washington Department of Fish and Wildlife

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Cover photos: Cedar Creek; before and after fish passage barrier culverts replaced with bridge in 2004.

## Background

Several inventories have been conducted over the last decade to identify and assess stream crossing structures and fish passage barriers in the Pend Oreille Watershed Inventory Area (WRIA) 62. The Pend Oreille Salmonid Recovery Team's (POSRT 2009) Strategy for Protection and Improvement of Native Salmonids in the Pend Oreille Watershed (i.e, Lead Entity strategy) provides a list and map of fish passage barriers in WRIA 62. This information has not been updated since 2005 and does not include crossing structures in those WRIA 62 basins that drain towards Idaho.

This report represent a summary of all *known* stream crossings and fish passage barriers within WRIA 62 as of December 2009. Data is from the following sources:

- A query of the Washington Department of Fish and Wildlife (WDFW) Fish Passage Diversion Screening Inventory (FPDSI) database. This data includes structures identified through the following Salmon Recovery Funding Board funded projects:
  - Pend Oreille Screening Assessment (SRFB #08-1976); conducted by WDFW in 2009
  - Priest Basin Barrier Assessment (SRFB #04-1480); conducted by the Pend Oreille Conservation District between 2005-07
  - Pend Oreille Barrier Assessment (SRFB #01-1306); conducted by the Pend Oreille Conservation District between 2003-05
- Road Maintenance and Abandonment Planning data from the Washington Department of Natural Resources. Structures identified and/or removed through December 2008 are included.
- "Fish Passage at Road Crossing Assessment" (2001) conducted by the Colville National Forest in 1999-2000.

It is anticipated that the POSRT will utilize the data presented in this report to update the Pend Oreille Lead Entity strategy (POSRT 2007).

## Methods for Data Collection

Generally, all data presented in this report was collected using methods described in the WDFW (2009) Fish Passage Barrier and Surface Water Diversion Screening Assessment Manual (<http://wdfw.wa.gov/hab/engineer/fishbarr.htm>), *except* for that which was provided by the Colville National Forest.

The WDFW methodology is based on the swimming abilities of a 6" trout. In general, a crossing is considered to provide fish passage if the following (Level A) parameters are met:

- Any water surface drop at culvert inlet, outlet or internally is < 0.24 m (9.4 inches)
- Culvert slope < 1.0 %

If a crossing does not meet these criteria, a more complex analysis (Level B) is conducted that evaluates velocity and water depth within the structure.

A passability value (0, 33 or 67% passable) is assigned for each crossing, based a range of values for the above mentioned criteria (see WDFW 2009 for details). The passability value is used in a Priority Index model to consolidate several factors that affect a fish passage project's feasibility (e.g., expected passage improvement, production potential of stream, etc.) into a management framework for developing a prioritized list of projects.

Colville National Forest data was collected using a method developed by Forest Service Region 10, Alaska. This method is based upon passage of juvenile coho salmon using hydraulic modeling and textbook information on the swimming abilities of this species and life stage. A determination is made in the field as to whether each crossing is an obvious barrier, passable, or if fish passage is undetermined. In general, a crossing is considered to provide fish passage if the following criteria are met:

- Culvert gradient is <1%
- Culvert is not “perched” or blocked
- Culvert span (diameter) to bankfull width ration is >0.75

If it is not readily apparent whether a crossing is a barrier, further hydraulic analysis is performed using FishXing software (<http://www.stream.fs.fed.us/fishxing>).

## **Summary of Stream Crossing Data**

A total of 555 stream crossings have been identified in WRIA 62. Of these, 54% (n=297) are barriers to fish passage, 38% (n=216) are not barriers to fish passage, and 8% (n=42) are of unknown passability.

Non-Barrier Crossings: A total of 216 stream crossings have been identified in WRIA 62 that are not considered barriers to fish passage. Of these, 63% (n=136) are non-culvert crossings (i.e., bridges, fords, etc.), 34% (n=73) are culverts, 2% (n=4) are other structure types, and 1.4% (n=3) are dams.

Barriers to Fish Passage: A total of 297 stream crossings have been identified in WRIA 62 that are considered barriers to fish passage. Of these, 92% (n=274) are culverts, 6% (n=19) are dams, and <1% (n=4) are other structures.

Unknown Barrier Status: A total of 42 stream crossings of unknown fish passability have been identified in WRIA 62. Of these, 41% (n=17) are in need of Level B analysis to determine barrier status. Surveyors were unable to complete data collection or analysis due to insufficient data or other unspecified reasons in 59% (n=25) of these structures.

Also see Table 1.

Table 1. Summary of crossing structures in WRIA 62

<b>TOTAL CROSSING STRUCTURES</b>	<b>555</b>	
<i>Barriers to fish passage</i>	<b>297</b>	<b>54%</b>
Culverts	274	92%
Dams	19	6%
Other	4	<1%
<i>Non-barriers to fish passage</i>	<b>216</b>	<b>39%</b>
Non-culvert crossings	135	62%
Culverts	73	34%
Dams	3	1.4%
Other	4	2%
<i>Unknown barriers to fish passage</i>	<b>42</b>	<b>8%</b>
Insufficient data or unspecified reason	25	60%
Require Level B analysis	17	40%



Site ID #1520076 - Cee Cee Ah Creek



Site ID #1520296 - Middle Branch Leclerc Creek

**Ownership:** Most crossing structures (155 or 28% of total structures) found in WRIA 62 are owned by large forest landowners (e.g, Stimson Lumber Co., Riley), followed closely by the federal government (136 or 24%); either the Colville or Idaho Panhandle National Forest. However, only 28% of large forest landowner culverts are considered barriers to fish passage, while over 85% of federal structures are blocking fish. Over 90% of crossing structures on the Idaho Panhandle National Forest are barriers; 80% of crossing structures on the Colville National Forest are barriers.

Also see Table 2.

Table 2. Crossing structures by ownership in WRIA 622

<b>Owner</b>	<b>Barriers</b>	<b>Non-barriers</b>	<b>Unknown</b>	<b>Total Structures</b>
Federal	116	17	3	136
<i>Colville National Forest</i>	56	14	0	70
<i>Idaho Panhandle National Forest</i>	60	3	3	66
Private	44	27	20	89
County	43	13	10	66
Large Forest Landowners	43	109	3	155
Small Forest Landowners	29	5	0	34
State	19	41	5	65
City	4	1	0	5
Unknown	2	1	0	3
Tribal	0	0	1	1
Railroad (Port)	0	2	0	2

Table 3 provides a list of all crossing data by unique Site ID number. Each listing includes a determination of barrier status, passability value, reason for blockage (i.e., slope, water surface drop, etc.), structure type (i.e., culvert, bridge, etc.), stream name, owner, and data source. Figures 1 through 41 are maps showing the location of each crossing by Site ID number, as well as, location of natural barriers and distribution of westslope cutthroat trout habitat.



Site ID #1290034 on East Fork Smalle Creek

## Discussion/Recommendations

- In 2003, the POSRT developed a list of Priority Areas for salmonid protection and habitat improvement. The presence of natural barriers to passage of bull trout was one of the criteria used to determine whether a subbasin was considered a “High”, “Medium” or “Low” priority area. Since the prioritization was done, several assessments have been conducted that have broadened the understanding of natural barriers in WRIA 62. For example:
  - Barriers near the mouth of Slate Creek are complete blockages to bull trout migration. This subbasin may be more suitably placed in the “Medium” priority category with other subbasins with natural barriers.
  - In 2003, the POSRT understood that there was a natural barrier within one-mile of the mouth of Mill Creek. WDFW survey crews surveyed this reach of Mill Creek in 2009 and found no natural barriers to bull trout. The rank/priority of this subbasin should be re-evaluated.
  - Waterfalls/cascades on lower Sullivan Creek have been evaluated by the Pend Oreille P.U.D. and are not considered natural barriers.
- The POSRT Lead Entity strategy (2007) utilized the ratio of fish passage barriers to river mile of designated bull trout habitat (per WCC 2003) as one of the criteria for ranking high and medium priority subbasins. This ranking was done in 2003 and the list of ranked priority subbasins has been used to help determine POSRT project implementation priorities in these basins since. It is recommended that the POSRT utilize the data from this report to re-evaluate this ranking criteria. Three SRFB-funded barrier assessments have been conducted in WRIA 62 since the ranking was originally done and, conservatively, 120-150 fish passage barriers have since been removed.
- The POSRT Lead Entity strategy (2007) provides a map and prioritized lists of fish passage barriers in WRIA 62 based on a “Barrier Prioritization Matrix”. The prioritized lists have not been updated since 2005 and do not include crossing structures in those WRIA 62 basins that drain towards Idaho. The “Barrier Prioritization Matrix” may still be appropriate, but numerous fish passage barriers have been removed (SRFB, FFFPP, RMAP, etc.) since the matrix was developed which may result in new prioritization and ranking of barriers. It is recommended that the POSRT utilize the data from this report to re-evaluate the ranking.
- There are 17 culverts that were identified by the POCD for which a Level B analysis should be conducted to determine if they are fish passage barriers or not.
- Fish passage barrier inventory data for those portions of WRIA 62 located on the Colville National Forest is incomplete as not all fish bearing streams were assessed during the 1999-2000 inventory (Shuhda 2009; pers. comm.). A complete inventory of all Colville National Forest streams in WRIA 62 with the potential to support fish should be conducted. The WDFW inventory protocol should be used to maintain consistency with the majority of data already collected in WRIA 62.
- Over 90% of stream crossings on the Idaho Panhandle National Forest are barriers to fish passage; 80% on the Colville National Forest (though as noted above, a complete inventory of the Colville National Forest has not yet been completed). Only 27% of

crossings owned by large forest landowners are not passing fish. These differences are dramatic and should be considered when ranking barriers for removal/replacement.

## Literature Cited

Colville National Forest. 2001. Fish passage at road crossing assessment (revised).

Pend Oreille Salmonid Recovery Team (POSRT). 2007. Strategy for protection and improvement of native salmonid habitat in the Pend Oreille Watershed, Washington, Water Resource Inventory Area 62.

Washington Conservation Commission (WCC). 2003. Bull trout habitat limiting factors: Water Resource Inventory Area 62, Pend Oreille Watershed. 477 pp.

Washington Department of Fish and Wildlife (WDFW). 2009. Fish Passage Barrier and Surface Water Diversion Screening Assessment Prioritization Manual. Olympia, WA.



Site ID No. 1290137 on Indian Creek





Table 3. Stream Crossings and Fish Passage Barriers Known for WRIA 62 (by Site ID)

Site ID No.	Barrier	Passability <sup>1</sup>	Reason	Crossing Type	Stream	Owner	Source <sup>2</sup>
010408-093	Yes	67	Slope	Culvert	Goose Cr	Federal	FPDSI
010408-094	Yes	33	WS Drop	Culvert	Consalus Cr	Federal	FPDSI
010408-095	Yes	0	Slope	Culvert	Unnamed to Consalus Cr	Federal	FPDSI
010408-096	Yes	33	WS Drop	Culvert	Consalus Cr	Federal	FPDSI
010408-097	Yes	33	WS Drop	Culvert	Consalus Cr	Federal	FPDSI
010408-098	Yes	0	Slope	Culvert	Unnamed to Consalus Cr	Federal	FPDSI
010408-099	Yes	0	Slope	Culvert	Unnamed to Consalus Cr	Federal	FPDSI
010408-100	Yes	0	Slope	Culvert	Unnamed to Consalus Cr	Federal	FPDSI
010408-101	Yes	33	Failed	Culvert	Unnamed to Goose	Federal	FPDSI
010408-102	Yes	0	Slope	Culvert	Goose Cr	Federal	FPDSI
010408-103	Yes	0	Slope	Culvert	LWB Priest R	Federal	FPDSI
010408-104	Yes	0	Slope	Culvert	Unnamed to NF Goose Cr	Federal	FPDSI
010408-105	Yes	0	Slope	Culvert	Unnamed to NF Goose Cr	Federal	FPDSI
010408-106	Yes	0	Slope	Culvert	Unnamed to Goose	Federal	FPDSI
010408-107	Yes	0	Slope	Culvert	Unnamed to Goose	Federal	FPDSI
010408-108	Yes	67	WS Drop	Culvert	Unnamed to Goose	Private	FPDSI
010408-109	Yes	0	Slope	Culvert	Unnamed to NF Granite Cr	Federal	FPDSI
010408-110	Yes	33	Slope	Culvert	Unnamed to NF Granite Cr	Federal	FPDSI
010408-111	Yes	33	Slope	Culvert	Unnamed to NF Granite Cr	Federal	FPDSI
010408-112	Yes	67	Slope	Culvert	Muskegon Cr	Federal	FPDSI
010408-113	Yes	0	Slope	Culvert	Unnamed to NF Granite Cr	Federal	FPDSI
010408-114	Yes	33	WS Drop	Culvert	Gold Cr	Federal	FPDSI
010408-115	Yes	0	Slope	Culvert	Hemlock Cr	Federal	FPDSI
010408-116	Yes	33	Slope	Culvert	Deerhorn Cr	Federal	FPDSI
010408-117	No	100	NA	Non-culvert Xing	Kalispel Cr	Federal	FPDSI
010408-118	Yes	33	Slope	Culvert	Colza Cr	Federal	FPDSI
010408-119	Yes	0	Slope	Culvert	Paqua Cr	Federal	FPDSI
010408-120	Yes	0	Slope	Culvert	Klawhoya Cr	Federal	FPDSI
010408-121	Yes	0	Slope	Culvert	Unnamed to UWB P R	Federal	FPDSI
010408-122	Yes	67	Slope	Culvert	Tola Cr	Federal	FPDSI
010408-123	Yes	0	Slope	Culvert	Solo Cr	Federal	FPDSI
010408-124	Yes	33	Slope	Culvert	Unnamed to Flat Cr	Federal	FPDSI
010408-125	Yes	33	Slope	Culvert	Flat Cr	Federal	FPDSI
010408-126	Yes	0	Slope	Culvert	Unnamed to Butch Cr	Federal	FPDSI
010408-127	Yes	0	Slope	Culvert	Unnamed to LWB P R	Federal	FPDSI
010408-128	Yes	0	Slope	Culvert	Butch Cr	Federal	FPDSI
010408-129	Unk	Unk	Insufficient data	Culvert	unnamed	Federal	FPDSI
010408-130	No	100	NA	Culvert	Flat Cr	Federal	FPDSI
010408-131	Yes	0	Slope	Culvert	Ole Cr	Federal	FPDSI
010408-132	Yes	0	Slope	Culvert	Unnamed to LWB P R	Federal	FPDSI
010408-133	Yes	0	Slope	Culvert	Ole Cr	Federal	FPDSI
010408-134	Yes	33	Slope	Culvert	Slough Cr	Federal	FPDSI

<sup>1</sup> Passability refers to the percentage of 6" trout that are able to pass through the culvert. For more details please refer to WDFW 2009.

<sup>2</sup> FPDSI – Fish Passage Diversion Screening Inventory (WDFW database); DNR – Washington Department of Natural Resources; CNF – Colville National Forest; Stimson – Stimson Lumber Company

Site ID No.	Barrier	Passability	Reason	Crossing Type	Stream	Owner	Source
010408-135	Unk	Level B	NA	Culvert	Unnamed to Bear Paw Cr	Federal	FPDSI
010408-136	Unk	Level B	NA	Culvert	Unnamed to Bear Paw Cr	Federal	FPDSI
010408-137	No	100	NA	Culvert	Bear Paw Cr	Federal	FPDSI
010408-138	Yes	67	Slope	Culvert	Unnamed to Bear Paw Cr	Federal	FPDSI
010408-139	Yes	33		Culvert	Mosquito Cr	Federal	FPDSI
010408-140	No	100	NA	Culvert	Lower W Branch Priest R	Federal	FPDSI
010408-141	Yes	0	Slope	Culvert	Unnamed to UWB P R	Federal	FPDSI
010408-142	Yes	33	Slope	Culvert	Lunar Cr	Federal	FPDSI
010408-143	Yes	0	Slope	Culvert	Sockwa Cr	Federal	FPDSI
010408-144	Yes	0	Slope	Culvert	Unnamed to UWB P R	Federal	FPDSI
010408-145	Yes	0	WS Drop	Culvert	Unnamed to Galena Cr	Federal	FPDSI
010408-146	Yes	0	Unk	Culvert	Unnamed to Galena Cr	Federal	FPDSI
010408-147	Yes	0	Slope	Culvert	Unnamed to Galena Cr	Federal	FPDSI
010408-148	Yes	0	Slope	Culvert	Unnamed to UWB P R	Federal	FPDSI
010408-149	Yes	0	Slope	Culvert	Unnamed to UWB P R	Federal	FPDSI
010408-150	Yes	67	Slope	Culvert	Roger Cr	Federal	FPDSI
010408-151	Yes	0	Slope	Culvert	Butch Cr	Federal	FPDSI
010408-152	Yes	33	Slope	Culvert	Butch Cr	Federal	FPDSI
010408-153	Yes	0	Slope	Culvert	Flat Cr	Federal	FPDSI
010408-154	Yes	0	Slope	Culvert	Unnamed to Flat Cr	Federal	FPDSI
010408-155	Yes	0	Slope	Culvert	Unnamed to UWB P R	Federal	FPDSI
010408-156	Yes	67	WS Drop	Culvert	Huff lake	Federal	FPDSI
010408-157	Yes	0	Slope	Culvert	Unnamed to Klawhoya	Federal	FPDSI
010408-158	Yes	0	Slope	Culvert	Diamond Cr	Federal	FPDSI
010408-159	Yes	33	WS Drop	Culvert	Diamond Cr	Federal	FPDSI
1-01	Yes	Unk	Unk	Culvert	Unnamed to EB Leclerc	LFLO	DNR
1-02	No	Unk	Unk	Non-Culvert Xing	Unnamed to PO R	LFLO	DNR
1-03	Yes	Unk	Unk	Culvert	Unnamed to PO R	LFLO	DNR
1-04	Yes	Unk	Unk	Culvert	Unnamed to PO R	LFLO	DNR
1290001	Yes	33	Slope	Culvert	Pee Wee Cr	County	FPDSI
1290002	Yes	33	Slope	Culvert	Whiskey Gulch	Private	FPDSI
1290003	Yes	0	Other	Dam	Beaver Cr	Private	FPDSI
1290004	Yes	0	WS Drop	Dam	Beaver Cr	Private	FPDSI
1290005	Yes	0	Slope	Culvert	Beaver Cr	County	FPDSI
1290006	Yes	0	Slope	Culvert	Flume Cr	County	FPDSI
1290008	Yes	33	WS Drop	Culvert	Linton Cr	City	FPDSI
1290009	Yes	33	Velocity	Culvert	Linton Cr	City	FPDSI
1290010	Yes	0	Slope	Culvert	Linton Cr	City	FPDSI
1290012	Yes	0	Slope	Culvert	Linton Cr	County	FPDSI
1290013	Yes	0	Slope	Culvert	Linton Cr	County	FPDSI
1290014	Yes	33	WS Drop	Culvert	Linton Cr	County	FPDSI
1290015	Yes	0	WS Drop	Dam	unnamed	City	FPDSI
1290016	Yes	0	Slope	Culvert	Linton Cr	County	FPDSI
1290018	Yes	33	Slope	Culvert	Pocahontas Cr	County	FPDSI
1290019	Yes	0	Slope	Culvert	Wolf Cr	County	FPDSI
1290020	Yes	0	WS Drop	Culvert	Sand Cr	Private	FPDSI
1290021	No	100	NA	Culvert	Sand Cr	Unknown	FPDSI
1290022	Yes	0	Slope	Culvert	Mickey Cr	County	FPDSI
1290025	No	100	NA	Non-Culvert Xing	Cedar Cr	Private	SFLO

Site ID No.	Barrier	Passability	Reason	Crossing Type	Stream	Owner	Source
1290027	No	100	NA	Culvert	Indian Cr	County	FPDSI
1290028	No	100	NA	Non-Culvert Xing	Indian Cr	Private	FPDSI
1290029	No	100	NA	Non-Culvert Xing	Indian Cr	Private	FPDSI
1290030	Yes	67	Slope	Culvert	Smalle Cr	County	FPDSI
1290031	No	100	NA	Non-Culvert Xing	Cedar Cr	Private	FPDSI
1290032	Yes	67	Slope	Culvert	Lost Lake Cr	Private	FPDSI
1290033	Yes	33	Slope	Culvert	Lost Lake Cr	County	FPDSI
1290034	Yes	0	Slope	Culvert	EF Smalle Cr	County	FPDSI
1290035	Yes	0	Slope	Culvert	Smalle Cr	Unknown	FPDSI
1290038	Yes	0	WS Drop	Dam	Sand Cr	Unknown	FPDSI
1290039	Yes	33	Slope	Culvert	Paupac Cr	County	FPDSI
1290040	Yes	33	Slope	Culvert	Paupac Cr	Federal	FPDSI
1290041	Yes	0	Slope	Culvert	Little Muddy Cr	County	FPDSI
1290044	No	100	NA	Non-Culvert Xing	Winchester Cr	County	FPDSI
1290045	Unk	Level B	NA	Culvert	Cusick Cr	Private	FPDSI
1290047	Unk	Level B	NA	Culvert	Cusick Cr	Private	FPDSI
1290048	Yes	33	WS Drop	Dam	Cusick Cr	Private	FPDSI
1290049	Yes	33	Slope	Culvert	Cusick Cr	Private	FPDSI
1290050	Yes	33	Slope	Culvert	Cusick Cr	Private	FPDSI
1290051	Unk	Level B	NA	Culvert	Skookum Cr	County	FPDSI
1290052	Unk	Level B	NA	Culvert	Skookum Cr	County	FPDSI
1290053	Yes	33	Slope	Culvert	Skookum Cr	County	FPDSI
1290054	Yes	67	Slope	Culvert	Skookum Cr	County	FPDSI
1290055	Yes	33	Slope	Culvert	Skookum Cr	County	FPDSI
1290056	Yes	33	Slope	Culvert	SF Skookum Cr	County	FPDSI
1290057	No	100	NA	Culvert	Cooks Cr	State	FPDSI
1290058	No	100	NA	Culvert	Sandwich Cr	State	FPDSI
1290059	Unk	Level B	NA	Culvert	NF Skookum Cr	County	FPDSI
1290060	No	100	NA	Culvert	Skookum Cr	Private	FPDSI
1290065	Yes	67	Slope	Culvert	McCloud Cr	County	FPDSI
1290066	Yes	67	Slope	Culvert	McCloud Cr	County	FPDSI
1290067	Yes	0	Slope	Culvert	McCloud Cr	Private	FPDSI
1290068	Yes	33	Slope	Culvert	Skookum Cr	Private	FPDSI
1290069	Yes	67	Slope	Culvert	Kent Cr	Private	FPDSI
1290070	Yes	33	Slope	Culvert	McCloud Cr	County	FPDSI
1290071	Yes	33	Depth	Culvert	McCloud Cr	County	FPDSI
1290072	Yes	33	WS Drop	Culvert	Kent Cr	County	FPDSI
1290073	Unk	Unk	Unk	Culvert	Unnamed to Kent Cr	County	FPDSI
1290074	Yes	0	Slope	Culvert	Unnamed to Kent Cr	County	FPDSI
1290075	Yes	0	Slope	Culvert	Kent Cr	County	FPDSI
1290076	Yes	33	Slope	Culvert	Bracket Cr	County	FPDSI
1290077	Yes	33	Slope	Culvert	Bracket Cr	County	FPDSI
1290078	Yes	67	Slope	Culvert	Bracket Cr	County	FPDSI
1290079	Yes	67	Slope	Culvert	Kent Cr	Private	FPDSI
1290080	Unk	Unk	Slope	Culvert	unnamed to Bracket Cr	County	FPDSI
1290081	Yes	33	Slope	Culvert	Bracket Cr	County	FPDSI
1290082	Yes	0	Slope	Culvert	Bracket Cr	County	FPDSI
1290083	Yes	33	WS Drop	Dam	Skookum Cr	Private	FPDSI
1290085	Yes	0	Slope	Culvert	Davis Cr	County	FPDSI

Site ID No.	Barrier	Passability	Reason	Crossing Type	Stream	Owner	Source
1290086	Unk	Level B	NA	Culvert	Davis Cr	County	FPDSI
1290088	Unk	Level B	NA	Dam	Bracket Cr	Private	FPDSI
1290089	Unk	Level B	NA	Culvert	Unnamed to Deer Cr	County	FPDSI
1290090	Yes	33	Slope	Culvert	Unnamed to Deer Cr	County	FPDSI
1290091	Yes	0	Slope	Culvert	Deer Cr	County	FPDSI
1290092	Yes	33	Slope	Culvert	Deer Cr	County	FPDSI
1290093	Unk	Level B	NA	Culvert	Deer Cr	Private	FPDSI
1290094	Unk	Level B	NA	Culvert	Deer Cr	County	FPDSI
1290096	Unk	Unk	Insufficient data	Dam	Kent Cr	Private	FPDSI
1290097	Unk	Level B	NA	Culvert	Unnamed to Kent Cr	County	FPDSI
1290098	Yes	33	Slope	Culvert	Kent Cr	Private	FPDSI
1290100	Yes	67	WS Drop	Dam	Kent Cr	Private	FPDSI
1290101	Yes	67	WS Drop	Culvert	Kent Cr	Private	FPDSI
1290102-1	Yes	33	Slope	Culvert	Kent Cr	Private	FPDSI
1290103	Yes	67	WS Drop	Culvert	Kent Cr	Private	FPDSI
1290106	Yes	0	WS Drop	Dam	Unnamed to Kent Cr	Private	FPDSI
1290107-1	Unk	Level B	NA	Culvert	McCloud Cr	Private	FPDSI
1290107-2	Unk	Unk	Insufficient data	Dam	McCloud Cr	Private	FPDSI
1290109	Unk	Unk	Insufficient data	Dam	Kent Cr	Private	FPDSI
1290112	Unk	Level B	NA	Culvert	Davis Cr	Private	FPDSI
1290113	Yes	67	Slope	Culvert	Davis Cr	Private	FPDSI
1290114	Yes	67	WS Drop	Dam	Davis Cr	Private	FPDSI
1290116	Yes	67	WS Drop	Dam	Davis Cr	Private	FPDSI
1290118	Yes	67	Slope	Culvert	Deer Cr	Private	FPDSI
1290119	Yes	100	NA	Culvert	Deer Cr	Private	FPDSI
1290120	Unk	Level B	NA	Culvert	Deer Cr	Private	FPDSI
1290121	Yes	33	WS Drop	Culvert	McCloud Cr	Private	FPDSI
1290123	Yes	0	WS Drop	Dam	Bracket Cr	Private	FPDSI
1290124-1	Yes	33	Velocity	Culvert	Mill Cr	Private	FPDSI
1290124-2	Yes	67	Slope	Culvert	Mill Cr	Private	FPDSI
1290125	Yes	0	Slope	Culvert	Whiskey Gulch	County	FPDSI
1290128	Yes	33	Slope	Culvert	Exposure Cr	County	FPDSI
1290129	Yes	33	Slope	Culvert	Exposure Cr	County	FPDSI
1290130	Unk	Level B	NA	Culvert	Maitlen Cr	Private	FPDSI
1290131	Yes	0	Slope	Culvert	Unnamed to Maitlen Cr	Private	FPDSI
1290137	No	100	NA	Non-Culvert Xing	Indian Cr	Private	FPDSI
1290152	Yes	33	Slope	Culvert	Kent Cr	County	FPDSI
132041776	Yes	0	Slope	Culvert	Trimble Cr	SFLO	FPDSI
132051071	No	100	NA	Non-Culvert Xing	MF Calispell Cr	SFLO	FPDSI
132051072	No	100	NA	Culvert	MF Calispell Cr	SFLO	FPDSI
132051073	No	100	NA	Culvert	MF Calispell Cr	SFLO	FPDSI
132051074	No	100	NA	Culvert	Unnamed to MF Calispell Cr	SFLO	FPDSI
132051540	Yes	33	Slope	Culvert	Deer Cr	SFLO	FPDSI
132061010	Yes	0	Slope	Culvert	Unnamed to Moose Jaw Lk	SFLO	FPDSI
132061564	Yes	33	Slope	Culvert	Unnamed to Bear Paw Cr	SFLO	FPDSI
132062096	Unk	Unk	Insufficient data	Culvert	McCloud Cr	SFLO	FPDSI
132062162	Yes	67	WS Drop	Culvert	Maitlen Cr	SFLO	FPDSI
132062207	Yes	33	Slope	Culvert	Reynolds Cr	SFLO	FPDSI
132062321	Yes	33	Slope	Culvert	Bracket Cr	SFLO	FPDSI

Site ID No.	Barrier	Passability	Reason	Crossing Type	Stream	Owner	Source
132071057	Yes	33	WS Drop	Culvert	Gardiner Cr	SFLO	FPDSI
1520008	Yes	33	WS Drop	Dam	Mill Cr	Private	FPDSI
1520009	No	100	NA	Non-Culvert Xing	Mill Cr	County	FPDSI
1520019	Yes	0	WS Drop	Culvert	Mill Cr	Federal	FPDSI
1520021	Yes	67	Slope	Culvert	Unnamed to Mill Cr	Private	FPDSI
1520022	Yes	0	Slope	Culvert	Unnamed to CCA Cr	Private	FPDSI
1520023	No	100	NA	Non-Culvert Xing	EB LeClerc Cr	County	FPDSI
1520026	No	100	NA	Other	EB LeClerc Cr	Private	FPDSI
1520028	No	100	NA	Non-Culvert Xing	EB LeClerc Cr	Private	FPDSI
1520029	No	0	NA	Non-Culvert Xing	LeClerc Cr	County	FPDSI
1520035	Yes	0	NA	Dam	Calispell Cr	County	FPDSI
1520036	Unk	Unk	Insufficient data	Culvert	Calispell Cr	Tribal	FPDSI
1520037	No	100	NA	Non-Culvert Xing	Calispell Cr	State	FPDSI
1520038	No	100	NA	Non-Culvert Xing	Calispell Cr	Private	FPDSI
1520039	No	100	NA	Non-Culvert Xing	Calispell Cr	County	FPDSI
1520041	Unk	Unk	Insufficient data	Culvert	Calispell Cr	County	FPDSI
1520046	No	100	NA	Non-Culvert Xing	Calispell Cr	County	FPDSI
1520051	No	33	Slope	Culvert	SF Calispell Cr	Private	FPDSI
1520052	Yes	0	WS Drop	Dam	SF Calispell Cr	Private	FPDSI
1520053	Yes	67	WS Drop	Culvert	SF Calispell Cr	Private	FPDSI
1520054	Yes	100	Removed	Dam	Tacoma Cr	Private	FPDSI
1520055	No	100	NA	Non-Culvert Xing	Tacoma Cr	State	FPDSI
1520056	No	100	NA	Non-Culvert Xing	Tacoma Cr	Port	FPDSI
1520066	No	100	NA	Non-Culvert Xing	Tacoma Cr	Private	FPDSI
1520069	No	100	NA	Other	Tacoma Cr	Private	FPDSI
1520071	Yes	67	Unspecified	Other	SF Tacoma Cr	Private	FPDSI
1520072	No	100	NA	Other	SF Tacoma Cr	Private	FPDSI
1520076	Yes	0	Slope	Culvert	Cee Cee Ah Cr	Federal	FPDSI
1520077	Yes	33	Slope	Culvert	Cee Cee Ah Cr	Federal	FPDSI
1520078	Yes	0	Slope	Culvert	Cee Cee Ah Cr	Federal	FPDSI
1520079	Unk	Unk	Insufficient data	Non-Culvert Xing	SF Tacoma Cr	Private	FPDSI
1520081	No	100	NA	Non-Culvert Xing	SF Tacoma Cr	Private	FPDSI
1520082	No	100	NA	Non-Culvert Xing	SF Tacoma Cr	Private	FPDSI
1520090	Unk	Unk	Insufficient data	Non-Culvert Xing	unnamed	Private	FPDSI
1520091	No	100	NA	Non-Culvert Xing	Harvey Cr	Private	FPDSI
1520092	No	100	NA	Non-Culvert Xing	Harvey Cr	County	FPDSI
1520106	No	100	NA	Dam	EF Smalle Cr	Private	FPDSI
1520114	Unk	Unk	Insufficient data	Dam	Smalle Cr	Private	FPDSI
1520117	Yes	67	Slope	Culvert	SF Smalle Cr	County	FPDSI
1520119	Unk	Unk	Insufficient data	Culvert	SF Smalle Cr	Private	FPDSI
1520120	Unk	Unk	Insufficient data	Culvert	SF Smalle Cr	Private	FPDSI
1520121	Yes	67	WS Drop	Culvert	EF Smalle Cr	Private	FPDSI
1520123	No	100	NA	Non-Culvert Xing	Cedar Cr	Port	FPDSI
1520125	No	100	NA	Non-Culvert Xing	Cedar Cr	County	FPDSI
1520126	Unk	Unk	Insufficient data	Culvert	SF Smalle Cr	Private	FPDSI
1520128	No	100	NA	Non-Culvert Xing	SF Smalle Cr	Private	FPDSI
1520129	Unk	Unk	Insufficient data	Culvert	SF Skookum Cr	Private	FPDSI
1520136	No	100	NA	Dam	Sullivan Cr	Federal	FPDSI
1520137	Yes	0	Slope	Culvert	NF Sullivan Cr	Federal	FPDSI

Site ID No.	Barrier	Passability	Reason	Crossing Type	Stream	Owner	Source
1520141	No	100	NA	Non-Culvert Xing	Skookum Cr	Private	FPDSI
1520146	No	100	NA	Non-Culvert Xing	SF Skookum Cr	Private	FPDSI
1520147	Unk	Unk	Insufficient data	Dam	SF Skookum Cr	Private	FPDSI
1520148	No	100	NA	Non-Culvert Xing	SF Skookum Cr	Private	FPDSI
1520152	Yes	67	Slope	Culvert	Indian Cr	Private	FPDSI
1520154	No	100	NA	Non-Culvert Xing	NF Skookum Cr	Private	FPDSI
1520201	No	100	NA	Non-Culvert Xing	Pend Oreille R	Private	FPDSI
1520274	No	100	NA	Non-Culvert Xing	Skookum Cr	Private	FPDSI
1520276	No	100	NA	Non-Culvert Xing	NF Skookum Cr	Private	FPDSI
1520278	Unk	Unk	Insufficient data	Dam	Skookum Cr	Private	FPDSI
1520286	Yes	Unk	Unspecified	Dam	Skookum Cr	Private	FPDSI
1520290	Yes	0	WS Drop	Culvert	Mill Cr	Federal	FPDSI
1520291	No	100	NA	Non-Culvert Xing	WB Leclerc Cr	County	FPDSI
1520292	No	100	NA	Non-Culvert Xing	WB Leclerc Cr	Federal	FPDSI
1520293	No	100	NA	Non-Culvert Xing	WB Leclerc Cr	County	FPDSI
1520294	No	100	NA	Non-Culvert Xing	WB Leclerc Cr	Federal	FPDSI
1520295	Yes	67	Slope	Culvert	MB Leclerc	Federal	FPDSI
1520296	Yes	0	Slope	Culvert	MB Leclerc Cr	Federal	FPDSI
1520297	Yes	0	Slope	Culvert	EB Leclerc Cr	County	FPDSI
1520298	No	100	NA	Non-Culvert Xing	Whiteman Cr	Federal	CNF
1520301	Yes	0	WS Drop	Dam	NF Sullivan Cr	County	FPDSI
2-01	Yes	Unk	Unk	Culvert	MB Leclerc Cr	Federal	CNF
2-02	Yes	Unk	Unk	Culvert	EB Leclerc Cr	Federal	CNF
2-03	Yes	Unk	Unk	Culvert	NF Calispell CR	Federal	CNF
2-04	Yes	Unk	Unk	Culvert	Unnamed to NF Calispell	Federal	CNF
2-07	Yes	Unk	Unk	Culvert	Unnamed to WB Leclerc	Federal	CNF
2-08	Yes	Unk	Unk	Culvert	Saucon Cr	Federal	CNF
2-09	Yes	Unk	Unk	Culvert	WB Leclerc Cr	Federal	CNF
2-10	No	100	NA	Non-Culvert Xing	Ruby Cr	Federal	CNF
2-11	No	100	nA	Non-Culvert Xing	Unnamed to Ruby Cr	Federal	CNF
2-12	Yes	Unk	Unk	Culvert	Browns Cr	Federal	CNF
2-13	Yes	Unk	Unk	Culvert	Browns Cr	Federal	CNF
2-15	Yes	Unk	Unk	Culvert	Cusick Cr	Federal	CNF
2-16	Yes	Unk	Unk	Culvert	Cusick Cr	Federal	CNF
2-19	No	100	NA	Non-Culvert Xing	Ruby Cr	Federal	CNF
2-20	No	100	NA	Non-Culvert Xing	Tacoma Cr	Federal	CNF
2-21	No	100	NA	Non-Culvert Xing	Little Tacoma Cr	Federal	CNF
2-22	Yes	Unk	Unk	Culvert	Unnamed to Winchester	Federal	CNF
2-23	No	100	NA	Non-Culvert Xing	Unnamed to NF Skookum	Federal	CNF
2-24	Yes	Unk	Unk	Culvert	Fourth of July Cr	Federal	CNF
2-25	Yes	Unk	Unk	Culvert	Onota Cr	Federal	CNF
2-26	Yes	Unk	Unk	Culvert	Harvey Cr	Federal	CNF
2-27	Yes	Unk	Unk	Culvert	Unnamed to EB Leclerc	Federal	CNF
2-28	No	Unk	Unk	Culvert	WB Leclerc Cr	Federal	CNF
2-29	Yes	Unk	Unk	Culvert	Unnamed to NF Calispell	Federal	CNF
2-30	Yes	Unk	Unk	Culvert	Unnamed to NF Calispell	Federal	CNF
2300286-01	No	Unk	Unk	Culvert	Sandwich	LFLO	DNR
2300286-02	No	Unk	Unk	Culvert	Unnamed to NF Skookum	LFLO	DNR
2300286-03	No	Unk	Unk	Culvert	Unnamed to NF Skookum	LFLO	DNR

Site ID No.	Barrier	Passability	Reason	Crossing Type	Stream	Owner	Source
2300286-04	No	Unk	Unk	Non-Culvert Xing	Little Skookum Cr	LFLO	DNR
2300286-05	Yes	Unk	Unk	Culvert	Little Skookum Cr	LFLO	DNR
2300286-06	No	Unk	Unk	Culvert	Unnamed to L Skookum	LFLO	DNR
2300286-07	No	Unk	Unk	Culvert	Unnamed to L Skookum	LFLO	DNR
2300286-08	Yes	Unk	Unk	Culvert	Little Skookum Cr	LFLO	DNR
2300286-09	Yes	Unk	Unk	Culvert	Unnamed to L Skookum	LFLO	DNR
2300286-10	Yes	Unk	Unk	Culvert	Unnamed to L Skookum	LFLO	DNR
2300286-11	No	Unk	Unk	Culvert	Unnamed to NF Skookum	LFLO	DNR
2300286-12	No	Unk	Unk	Non-Culvert Xing	Unnamed to L Skookum	LFLO	DNR
2300286-13	No	Unk	Unk	Culvert	Sandwich	LFLO	DNR
2300286-14	No	Unk	Unk	Non-Culvert Xing	Unnamed to NF Skookum	LFLO	DNR
2300287-01	No	Unk	Unk	Non-Culvert Xing	Unnamed to Mill Cr	LFLO	DNR
2300287-02	No	Unk	Unk	Non-Culvert Xing	Unnamed to Mill Cr	LFLO	DNR
2300287-03	No	Unk	Unk	Non-Culvert Xing	Nola Cr	LFLO	DNR
2300801	Yes	Unk	Unk	Culvert	Trimble Cr	SFLO	DNR
2300948	Yes	Unk	Unk	Culvert	McCloud Cr	SFLO	DNR
2300964	Yes	Unk	Unk	Culvert	Gardiner Cr	SFLO	DNR
2301068-01	No	Unk	Unk	Non-Culvert Xing	Unnamed to PO R	LFLO	DNR
2301068-02	Yes	Unk	Unk	Culvert	Unnamed to WB Leclerc	LFLO	DNR
2301068-03	No	Unk	Unk	Non-Culvert Xing	Unnamed to EB Leclerc	LFLO	DNR
2301068-04	No	Unk	Unk	Non-Culvert Xing	Unnamed to EB Leclerc	LFLO	DNR
2301068-05	No	Unk	Unk	Non-Culvert Xing	Unnamed to EB Leclerc	LFLO	DNR
2301068-06	No	Unk	Unk	Non-Culvert Xing	Unnamed to EB Leclerc	LFLO	DNR
2301068-07	No	Unk	Unk	Non-Culvert Xing	Unnamed to EB Leclerc	LFLO	DNR
2301068-08	Yes	Unk	Unk	Culvert	Unnamed to EB Leclerc	LFLO	DNR
2301068-09	No	Unk	Unk	Non-Culvert Xing	Unnamed to EB Leclerc	LFLO	DNR
2301068-10	Yes	Unk	Unk	Culvert	Tioga Cr	LFLO	DNR
2301068-11	No	Unk	Unk	Non-Culvert Xing	Whiteman Cr	LFLO	DNR
2301068-12	No	Unk	Unk	Culvert	Whiteman Cr	LFLO	DNR
2301068-13	No	Unk	Unk	Non-Culvert Xing	Unnamed to EB Leclerc	LFLO	DNR
2301068-14	Yes	Unk	Unk	Culvert	Unnamed to EB Leclerc	LFLO	DNR
2301068-15	Yes	Unk	Unk	Culvert	Unnamed to WB Leclerc	LFLO	DNR
2301068-16	No	Unk	Unk	Non-Culvert Xing	EB Leclerc Cr	LFLO	DNR
2301068-17	No	Unk	Unk	Culvert	Saucon Cr	LFLO	DNR
2301068-18	No	Unk	Unk	Culvert	WB Leclerc Cr	LFLO	DNR
2301068-19	No	Unk	Unk	Culvert	Unnamed to WB Leclerc	LFLO	DNR
2301068-20	Yes	Unk	Unk	Culvert	Fourth of July Cr	LFLO	DNR
2301068-21	No	Unk	Unk	Culvert	Unnamed to EB Leclerc	LFLO	DNR
2301068-22	No	Unk	Unk	Non-Culvert Xing	EB Leclerc Cr	LFLO	DNR
2301068-23-1	No	Unk	Unk	Non-Culvert Xing	EB Leclerc Cr	LFLO	DNR
2301068-23-2	No	Unk	Unk	Culvert	Unnamed to EB Leclerc	LFLO	DNR
2301068-23-3	No	Unk	Unk	Non-Culvert Xing	Unnamed to EB Leclerc	LFLO	DNR
2301091-1	Yes	Unk	Unk	Culvert	Unnamed to EF Smalle	LFLO	DNR
2301091-2	Yes	Unk	Unk	Culvert	EF Smalle Cr	LFLO	DNR
2301091-3	No	Unk	Unk	Non-Culvert Xing	Winchester Cr	LFLO	DNR
2301091-4	No	Unk	Unk	Culvert	Graham Cr	LFLO	DNR
2301091-5	No	Unk	Unk	Culvert	Unnamed to Graham	LFLO	DNR
2301190	Yes	Unk	Unk	Culvert	Kent Cr	SFLO	DNR
2301295-01	No	Unk	Unk	Non-Culvert Xing	Unnamed to 4th of July	State	DNR

Site ID No.	Barrier	Passability	Reason	Crossing Type	Stream	Owner	Source
2301295-04	No	Unk	Unk	Non-Culvert Xing	Middle Cr	State	DNR
2301295-05	No	Unk	Unk	Non-Culvert Xing	Unnamed to Mill Cr	State	DNR
2301295-06	Yes	Unk	Unk	Culvert	Sylvis Cr	State	DNR
2301296-01	No	Unk	Unk	Non-Culvert Xing	Unnamed to Big Muddy Cr	State	DNR
2301296-02	No	Unk	Unk	Non-Culvert Xing	Unnamed to Big Muddy Cr	State	DNR
2301296-03	No	Unk	Unk	Non-Culvert Xing	Unnamed to Big Muddy Cr	State	DNR
2301296-04	No	Unk	Unk	Non-Culvert Xing	Unnamed to Big Muddy Cr	State	DNR
2301296-05	No	Unk	Unk	Non-Culvert Xing	Unnamed to Big Muddy Cr	State	DNR
2301296-07	No	Unk	Unk	Non-Culvert Xing	Unnamed to Big Muddy Cr	State	DNR
2301297-03	No	Unk	Unk	Non-Culvert Xing	SF Skookum Cr	State	DNR
2301316-01	Yes	Unk	Unk	Culvert	Unnamed to Mill Cr	LFLO	DNR
2301316-02	Yes	Unk	Unk	Culvert	Unnamed to Mill Cr	LFLO	DNR
2301316-03	Yes	Unk	Unk	Culvert	Unnamed to Mill Cr	LFLO	DNR
2301316-04	No	Unk	Unk	Non-Culvert Xing	Middle Cr	LFLO	DNR
2301316-05	No	Unk	Unk	Culvert	SF Middle Cr	LFLO	DNR
2301316-06	Yes	Unk	Unk	Culvert	Unnamed to Middle Cr	LFLO	DNR
2301316-07	No	Unk	Unk	Non-Culvert Xing	Mill Cr	LFLO	DNR
2301316-10	Yes	Unk	Unk	Culvert	Unnamed to Middle Cr	LFLO	DNR
2301316-11	No	Unk	Unk	Culvert	Unnamed to Middle Cr	LFLO	DNR
2301316-12	No	Unk	Unk	Culvert	Unnamed to Middle Cr	LFLO	DNR
2301316-13	No	Unk	Unk	Culvert	Unnamed to Middle Cr	LFLO	DNR
2301316-14	Yes	Unk	Unk	Culvert	Wanless Cr	LFLO	DNR
2301802	Yes	Unk	Unk	Culvert	Exposure Cr	SFLO	DNR
2301904-1	No	Unk	Unk	Non-Culvert Xing	Unnamed to Whiteman	LFLO	DNR
2301904-2	No	Unk	Unk	Non-Culvert Xing	Unnamed to EB Leclerc	LFLO	DNR
2301904-3	No	Unk	Unk	Non-Culvert Xing	Second Cr	LFLO	DNR
2302029-02	Unk	Unk	Unk	Culvert	Maitlen Cr	SFLO	DNR
2302029-1	Yes	Unk	Unk	Culvert	Unnamed to Maitlen Cr	SFLO	DNR
2302032-1	No	Unk	Unk	Culvert	Everett Cr	LFLO	DNR
2302032-2	Yes	Unk	Unk	Culvert	Threemile Cr	LFLO	DNR
2302032-30	No	Unk	Unk	Non-Culvert Xing	Sweet Cr	LFLO	DNR
2302032-40	No	Unk	Unk	Non-Culvert Xing	SF Flume Cr	LFLO	DNR
2302032-5	Yes	Unk	Unk	Culvert	SF Flume Cr	LFLO	DNR
2302114-01	No	Unk	Unk	Non-Culvert Xing	Unnamed to Davis Cr	LFLO	DNR
2302114-02	Yes	Unk	Unk	Culvert	McCloud Cr	LFLO	DNR
2302114-03	Yes	Unk	Unk	Culvert	Unnamed to Davis Cr	LFLO	DNR
2302115-01	No	Unk	Unk	Culvert	Unnamed to PO R	LFLO	DNR
2302115-02	No	Unk	Unk	Culvert	Unnamed to PO R	LFLO	DNR
2302115-03	No	Unk	Unk	Culvert	Unnamed to PO R	LFLO	DNR
2302115-04	No	Unk	Unk	Non-Culvert Xing	Unnamed to PO R	LFLO	DNR
2302115-05	No	Unk	Unk	Non-Culvert Xing	Cee Cee Ah Cr	LFLO	DNR
2302158-02	No	Unk	Unk	Culvert	Unnamed to Calispell Cr	State	DNR
2302158-03	No	Unk	Unk	Non-Culvert Xing	SF Calispell Cr	State	DNR
2302158-04	No	Unk	Unk	Non-Culvert Xing	Unnamed to Winchester	State	DNR
2302158-05	No	Unk	Unk	Non-Culvert Xing	Unnamed to Winchester	State	DNR
2302158-06	No	Unk	Unk	Non-Culvert Xing	Unnamed to Winchester	State	DNR
2302173-01	No	Unk	Unk	Non-Culvert Xing	Unnamed to Trimble Cr	LFLO	DNR
2302173-02	No	Unk	Unk	Non-Culvert Xing	Unnamed to Tacoma Cr	LFLO	DNR
2302173-03	No	Unk	Unk	Non-Culvert Xing	Unnamed to Tacoma Cr	LFLO	DNR



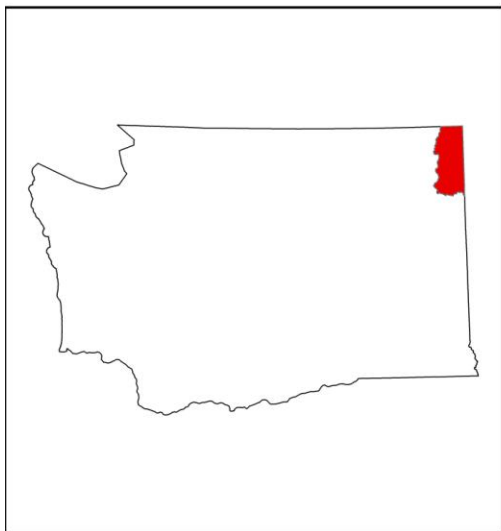
Site ID No.	Barrier	Passability	Reason	Crossing Type	Stream	Owner	Source
2302173-04	Unk	Unk	Unk	Culvert	Unnamed to Tacoma Cr	LFLO	DNR
2302173-05	No	Unk	Unk	Culvert	Unnamed to Tacoma Cr	LFLO	DNR
2302173-06	No	Unk	Unk	Non-Culvert Xing	Calispell Pk Cr	LFLO	DNR
2302173-07	No	Unk	Unk	Non-Culvert Xing	Unnamed to Calispell Pk Cr	LFLO	DNR
2302173-08	Yes	Unk	Unk	Non-Culvert Xing	Unnamed to Tacoma Cr	LFLO	DNR
2302173-09	Yes	Unk	Unk	Non-Culvert Xing	Unnamed to NF SF Tacoma	LFLO	DNR
2302173-10	Yes	Unk	Unk	Non-Culvert Xing	Tacoma Cr	LFLO	DNR
2302173-11	No	Unk	Unk	Culvert	SF Tacoma Cr	LFLO	DNR
2302173-12	Unk	Unk	Unk	Culvert	Unnamed to NF SF Tacoma	LFLO	DNR
2302173-13	Unk	Unk	Unk	Culvert	Unnamed to NF SF Tacoma	LFLO	DNR
2302173-14	Yes	Unk	Unk	Culvert	Unnamed to SF Tacoma Cr	LFLO	DNR
2302173-15	No	Unk	Unk	Non-Culvert Xing	Unnamed to Tacoma Cr	LFLO	DNR
2302173-16	No	Unk	Unk	Non-Culvert Xing	Unnamed to Tacoma Cr	LFLO	DNR
2302173-17	No	Unk	Unk	Culvert	Unnamed to Tacoma Cr	LFLO	DNR
2302173-18	No	Unk	Unk	Culvert	Unnamed to Tacoma Cr	LFLO	DNR
2302173-20	No	Unk	Unk	Non-Culvert Xing	Unnamed to Tacoma Cr	LFLO	DNR
2302509-01	Yes	Unk	Unk	Culvert	Tobasco Cr	LFLO	DNR
2302509-02	No	Unk	Unk	Non-Culvert Xing	Unnamed to Tobasco Cr	LFLO	DNR
2302509-02	Yes	Unk	Unk	Culvert	Unnamed to Sema Cr	LFLO	DNR
2302509-04	No	Unk	Unk	Non-Culvert Xing	Unnamed to Sema Cr	LFLO	DNR
2302597-01	No	Unk	Unk	Culvert	Unnamed to Harvey Cr	LFLO	DNR
2302597-02	No	Unk	Unk	Non-Culvert Xing	Unnamed to Cache Cr	LFLO	DNR
2302597-03	No	Unk	Unk	Non-Culvert Xing	Rocky Fork Cr	LFLO	DNR
2302597-04	No	Unk	Unk	Non-Culvert Xing	Unnamed to Harvey Cr	LFLO	DNR
2302597-05	No	Unk	Unk	Non-Culvert Xing	Unnamed to Harvey Cr	LFLO	DNR
2302597-06	Yes	Unk	Unk	Culvert	Unnamed to SF Granite Cr	LFLO	DNR
230267-01	No	Unk	Unk	Non-Culvert Xing	NF Skookum Cr	LFLO	DNR
230267-06	No	Unk	Unk	Culvert	Browns Cr	LFLO	DNR
230267-08	No	Unk	Unk	Culvert	Browns Cr	LFLO	DNR
2302672-02	No	Unk	Unk	Non-Culvert Xing	Lost Cr	LFLO	DNR
2302672-03	Yes	Unk	Unk	Culvert	Unnamed to Lunch Cr	Federal	DNR
2302672-04	Yes	Unk	Unk	Culvert	Lunch Cr	Federal	DNR
2302673-01	No	Unk	Unk	Culvert	Unnamed to SF Calispell Cr	LFLO	DNR
2302673-02	No	Unk	Unk	Culvert	Unnamed to SF Calispell Cr	LFLO	DNR
2302673-03	No	Unk	Unk	Non-Culvert Xing	NF Calispell CR	LFLO	DNR
2302673-04	No	Unk	Unk	Non-Culvert Xing	SF Calispell Cr	LFLO	DNR
2302673-05	No	Unk	Unk	Non-Culvert Xing	SF Calispell Cr	LFLO	DNR
2302674-02	No	Unk	Unk	Culvert	Cooks Cr	LFLO	DNR
2302674-03	No	Unk	Unk	Non-Culvert Xing	Cee Cee Ah Cr	LFLO	DNR
2302674-04	No	Unk	Unk	Non-Culvert Xing	Unnamed to NF Skookum	LFLO	DNR
2302674-05	No	Unk	Unk	Culvert	Browns Cr	LFLO	DNR
2302674-07	No	Unk	Unk	Culvert	Browns Cr	LFLO	DNR
2302675-01	No	Unk	Unk	Non-Culvert Xing	Smalle Cr	LFLO	DNR
2302687-01	No	Unk	NA	Culvert	Unnamed to MF Calispell Cr	LFLO	Stimson
2302687-02	No	Unk	Unk	Non-Culvert Xing	Unnamed to MF Calispell Cr	LFLO	DNR
2302687-03	Yes	Unk	Unk	Culvert	Unnamed to MF Calispell Cr	LFLO	Stimson
2302687-04	Yes	Unk	Unk	Culvert	Unnamed to MF Calispell Cr	LFLO	DNR
2302687-05	No	100	NA	Culvert	Unnamed to MF Calispell Cr	LFLO	Stimson
2302687-06	Yes	Unk	Unk	Culvert	Unnamed to MF Calispell Cr	LFLO	DNR

Site ID No.	Barrier	Passability	Reason	Crossing Type	Stream	Owner	Source
2302687-07	Yes	Unk	Unk	Culvert	Unnamed to MF Calispell Cr	LFLO	DNR
2302687-08	No	100	NA	Culvert	Unnamed to MF Calispell Cr	LFLO	DNR
2302687-09	Yes	Unk	Unk	Culvert	Unnamed to MF Calispell Cr	LFLO	DNR
2302687-10	No	100	NA	Non-Culvert Xing	Unnamed to MF Calispell Cr	LFLO	Stimson
2302687-11	No	100	NA	Culvert	Unnamed to MF Calispell Cr	LFLO	Stimson
2302687-12	No	Unk	Unk	Non-Culvert Xing	Unnamed to Ten Mile Cr	LFLO	DNR
2302687-13	No	Unk	Unk	Non-Culvert Xing	Unnamed to Ten Mile Cr	LFLO	DNR
2302687-14	No	Unk	Unk	Non-Culvert Xing	Unnamed to MF Calispell Cr	LFLO	DNR
2302687-15	Yes	Unk	Unk	Culvert	Ten Mile Cr	LFLO	DNR
2302687-16	Yes	Unk	Unk	Culvert	Unnamed to Ten Mile Cr	LFLO	DNR
2302687-17	No	Unk	Unk	Non-Culvert Xing	Unnamed to Ten Mile Cr	LFLO	DNR
2302687-18	No	Unk	Unk	Non-Culvert Xing	Unnamed to Ten Mile Cr	LFLO	DNR
2302687-19	No	Unk	Unk	Culvert	Nelson CR	LFLO	DNR
2303193	Yes	Unk	Unk	Culvert		SFLO	DNR
2303294	Yes	Unk	Unk	Culvert	Cedar Cr	SFLO	DNR
2303348	Yes	Unk	Unk	Culvert	Paupac Cr	SFLO	DNR
2303417-01	Yes	Unk	Unk	Culvert	Unnamed to MF Calispell Cr	SFLO	DNR
2303417-02	Yes	Unk	Unk	Culvert	Unnamed to MF Calispell Cr	SFLO	DNR
2303730-01	No	Unk	Unk	Culvert	Cusick Cr	LFLO	DNR
2303730-02	No	Unk	Unk	Culvert	Unnamed to EB Leclerc	LFLO	DNR
2303730-07	No	Unk	Unk	Non-Culvert Xing	Unnamed to PO R	LFLO	DNR
2303730-09	Yes	Unk	Unk	Culvert	Unnamed to PO R	LFLO	DNR
2303730-10	Yes	Unk	Unk	Culvert	Unnamed to PO R	LFLO	DNR
2303997-01	Yes	Unk	Unk	Culvert	Davis Cr	SFLO	DNR
2303997-02	Yes	Unk	Unk	Culvert	SF Calispell Cr	SFLO	DNR
2304149	Yes	Unk	Unk	Culvert	Moose Jaw Lk	SFLO	DNR
2304215	Yes	Unk	Unk	Culvert	Bear Paw Cr	SFLO	DNR
2304415	Yes	Unk	Unk	Culvert	Cusick Cr	SFLO	DNR
2304534	Yes	Unk	Unk	Culvert	Unnamed to Bracket Cr	SFLO	DNR
230674-02	No	Unk	Unk	Culvert	Winchester Cr	LFLO	DNR
230674-03	No	Unk	Unk	Non-Culvert Xing	Cooks CR	LFLO	DNR
230674-04	No	Unk	Unk	Non-Culvert Xing	Cee Cee Ah Cr	LFLO	DNR
230674-05	No	Unk	Unk	Non-Culvert Xing	NF Skookum Cr	LFLO	DNR
230674-06	No	Unk	Unk	Non-Culvert Xing	Unnamed to Browns Cr	LFLO	DNR
230674-07	Yes	Unk	Unk	Culvert	Unnamed to Browns Cr	LFLO	DNR
230674-08	Yes	Unk	Unk	Culvert	Unnamed to Browns Cr	LFLO	DNR
230675-01	No	Unk	Unk	Non-Culvert Xing	Smalle Cr	LFLO	DNR
2-31	Yes	Unk	Unk	Culvert	NF Calispell Cr	Federal	CNF
2-32	Yes	Unk	Unk	Culvert	NF Calispell Cr	Federal	CNF
2-33	Yes	Unk	Unk	Culvert	Unnamed to NF Calispell	Federal	CNF
2-34	Yes	Unk	Unk	Culvert	Cooks Cr	Federal	CNF
2-35	Yes	Unk	Unk	Culvert	Split Cr	Federal	CNF
2-36	Yes	Unk	Unk	Culvert	NF Skookum Cr	Federal	CNF
2-37	Yes	Unk	Unk	Culvert	Cee Cee Ah Cr	Federal	CNF
2-38	Yes	Unk	Unk	Culvert	SF Middle Cr	Federal	CNF
2-39	No	100	Unk	Culvert	Tacoma Cr	Federal	CNF
2-40	Yes	Unk	Unk	Culvert	Cusick Cr	Federal	CNF
2-41	Yes	Unk	Unk	Culvert	Little Ruby Cr	Federal	CNF
2-42	Yes	Unk	Unk	Culvert	Unnamed to Flume Cr	Federal	CNF

Site ID No.	Barrier	Passability	Reason	Crossing Type	Stream	Owner	Source
2-43	Yes	Unk	Unk	Culvert	Slumber Cr	Federal	CNF
2-44	Yes	Unk	Unk	Culvert	Kinyon Cr	Federal	CNF
2-45	No	100	Unk	Non-Culvert Xing	Ruby Cr	Federal	CNF
2-46	No	100	Unk	Culvert	Mineral Cr	Federal	CNF
2-47	Yes	Unk	Unk	Culvert	MB Leclerc Cr	Federal	CNF
2-48	Yes	Unk	Unk	Culvert	MB Leclerc Cr	Federal	CNF
2-49	Yes	Unk	Unk	Culvert	MB Leclerc Cr	Federal	CNF
2-50	Yes	Unk	Unk	Culvert	MB Leclerc Cr	Federal	CNF
2-51	Yes	Unk	Unk	Culvert	MB Leclerc Cr	Federal	CNF
2-52	Yes	Unk	Unk	Culvert	Stynx Cr	Federal	CNF
2-53	Yes	Unk	Unk	Culvert	Johns Cr	Federal	CNF
2-54	Yes	Unk	Unk	Culvert	Stoney Cr	Federal	CNF
2-55	Yes	Unk	Unk	Culvert	Unnamed to Big Muddy Cr	Federal	CNF
2-56	Yes	100	NA	Dam	WB Leclerc Cr	Federal	CNF
2-58	Yes	Unk	Unk	Culvert	Skookum Cr	Federal	CNF
2-59	Yes	Unk	Unk	Culvert	Cusick Cr	Federal	CNF
2-61	Yes	Unk	Unk	Culvert	NF Ruby Cr	Federal	CNF
2-62	Yes	Unk	Unk	Culvert	Gletty Cr	Federal	CNF
2-63	No	100	NA	Culvert	Bear Paw Cr	County	IPNF
3-01	Yes	Unk	Unk	Culvert	Cusick Cr	SFLO	DNR
80-20	Yes	Unk	Unk	Culvert	Reynolds Cr	SFLO	DNR
810483	No	100	NA	Non-Culvert Xing	Cedar Cr	Private	FPDSI
810484	No	100	NA	Non-Culvert Xing	Cedar Cr	Private	FPDSI
810911	No	100	NA	Non-Culvert Xing	SF Tacoma Cr	County	FPDSI
810995	No	100	NA	Other	Cedar Cr	City	FPDSI
811412	No	100	NA	Non-Culvert Xing	Mill Cr	Private	FPDSI
982647	No	100	NA	Dam	Middle Cr	State	FPDSI
982829	Yes	0	Other	Dam	Marshall Cr	Private	FPDSI
990101	Yes	33	Slope	Culvert	Cusick Cr	State	FPDSI
990103	No	100	NA	Culvert	Davis Cr	State	FPDSI
990105	No	100	NA	Culvert	Davis Cr	State	FPDSI
990114	No	100	NA	Culvert	Deer Cr	State	FPDSI
990165	Yes	67	Slope	Culvert	Gardiner Cr	State	FPDSI
990201	Yes	0	Slope	Culvert	lone Millpond	State	FPDSI
990250	Yes	67	Slope	Culvert	Lost Cr	State	FPDSI
990350	Yes	33	Slope	Culvert	Renshaw Cr	State	FPDSI
990351	Yes	0	WS Drop	Culvert	Renshaw Cr	State	FPDSI
990352	Yes	0	WS Drop	Culvert	Renshaw Cr	State	FPDSI
990353	Yes	0	WS Drop	Culvert	Reynolds Cr	State	FPDSI
990416	Yes	33	WS Drop	Culvert	Sweet Cr	State	FPDSI
990443	No	100	NA	Culvert	Trimble Cr	State	FPDSI
991469	No	100	NA	Culvert	McCloud Cr	State	FPDSI
991471	No	100	NA	Culvert	Three Mile Cr	State	FPDSI
991569	No	100	NA	Culvert	Unnamed to Davis Cr	State	FPDSI
997534	No	100	NA	Culvert	Unnamed	State	FPDSI
997535	Yes	33	Slope	Culvert	Linton Cr	State	FPDSI
997537	No	100	NA	Non-Culvert Xing	Pend Oreille R	State	FPDSI

Site ID No.	Barrier	Passability	Reason	Crossing Type	Stream	Owner	Source
997538	No	100	NA	Non-Culvert Xing	Sullivan Cr	State	FPDSI
997539	No	100	NA	Non-Culvert Xing	Slate Cr	State	FPDSI
997541	Yes	33	Slope	Culvert	Lime Cr	State	FPDSI
997863	Yes	33	Slope	Culvert	Deer Cr	State	FPDSI
997864	No	100	NA	Culvert	Unnamed to Deer Cr	State	FPDSI
997865	Unk	Unk	Insufficient data	Culvert	Unnamed to Deer Cr	State	FPDSI
997866	No	100	NA	Culvert	David Cr	State	FPDSI
997867	Unk	Unk	Unk	Culvert	Unnamed to PO R	State	FPDSI
997870	No	100	NA	Non-Culvert Xing	Davis Cr	State	FPDSI
997871	Yes	67	Slope	Culvert	Bracket Cr	State	FPDSI
997872	No	100	NA	Culvert	Kent Cr	State	FPDSI
997873	No	100	NA	Non-Culvert Xing	Lost Cr	State	FPDSI
997874	No	100	NA	Non-Culvert Xing	SF Lost Cr	State	FPDSI
997876	Unk	0	Blocked	Culvert	Unnamed to PO R	State	FPDSI
997877	Yes	0	Slope	Culvert	Unnamed to PO R	State	FPDSI
997878	No	100	NA	Non-Culvert Xing	Ruby Cr	State	FPDSI
997879	No	100	NA	Culvert	Unnamed to PO R	State	FPDSI
997880	Yes	0	Slope	Culvert	Unnamed to PO R	State	FPDSI
997881	Unk	Unk	Unk	Culvert	Unnamed to PO R	State	FPDSI
997882	Unk	Unk	Unk	Culvert	Unnamed to PO R	State	FPDSI
997883	Yes	67	WS Drop	Culvert	Diamond Cr	State	FPDSI
997884	No	100	NA	Non-Culvert Xing	Cedar Cr	State	FPDSI
997885	Yes	0	WS Drop	Culvert	Unnamed to PO R	State	FPDSI
998573	Yes	0	WS Drop	Culvert	Lost Cr	State	FPDSI
998644	No	100	NA	Culvert	Unnamed to PO R	State	FPDSI

# WRIA 62 Basins



# MAP LEGEND

## Stream crossing structure

- Yes - Barrier to fish passage
- No - Not a barrier to fish passage
- Unknown
- + Natural barrier

— Stream

— Westslope cutthroat trout distribution

— Road

□ Township, Range, Section

## Land Manager

□ Private

■ Kalispel Indian Reservation

■ US Bureau of Land Management

■ US Fish and Wildlife Service

■ US Forest Service

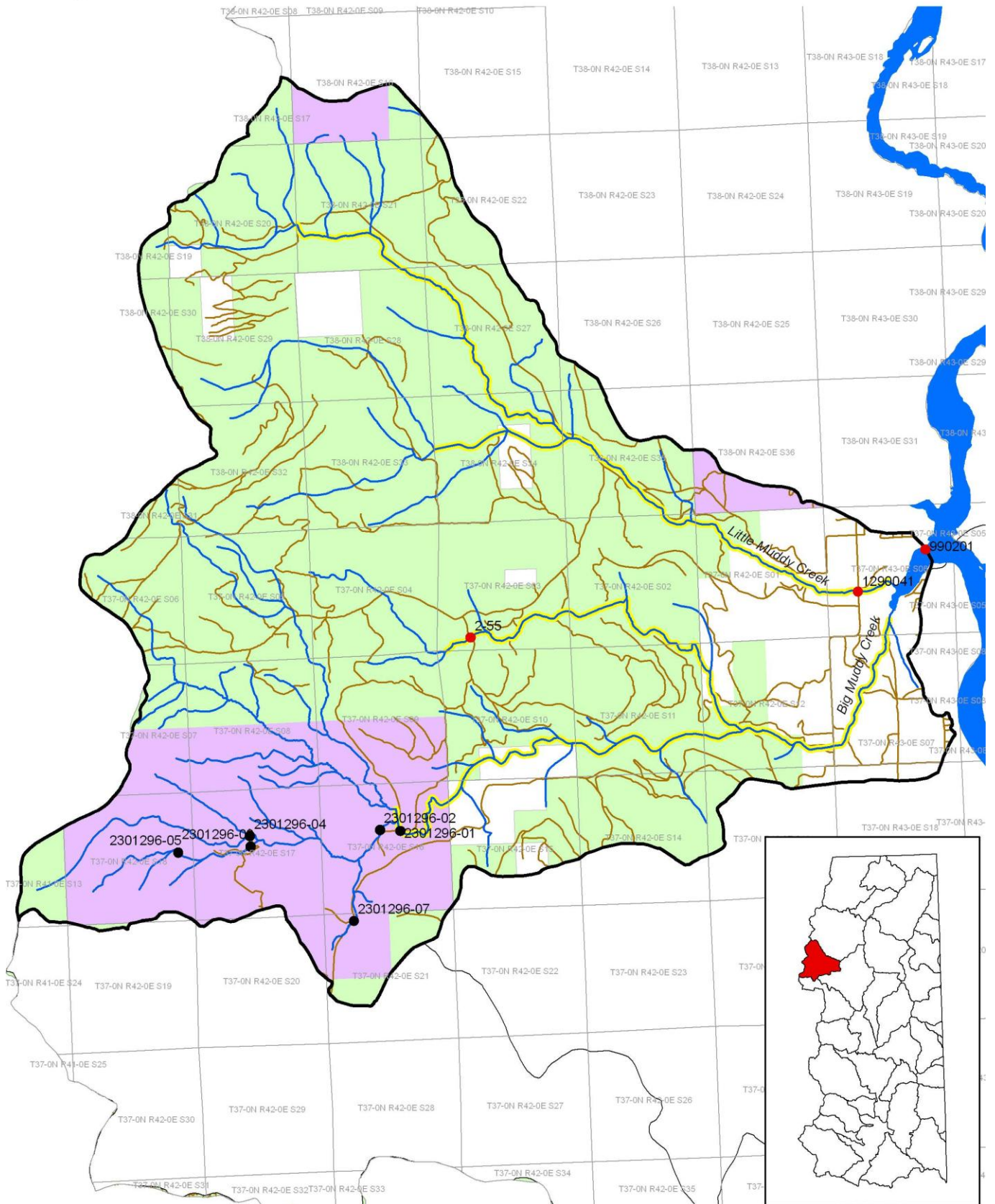
■ Washington State Department of Fish and Wildlife

■ Washington State Department of Natural Resources

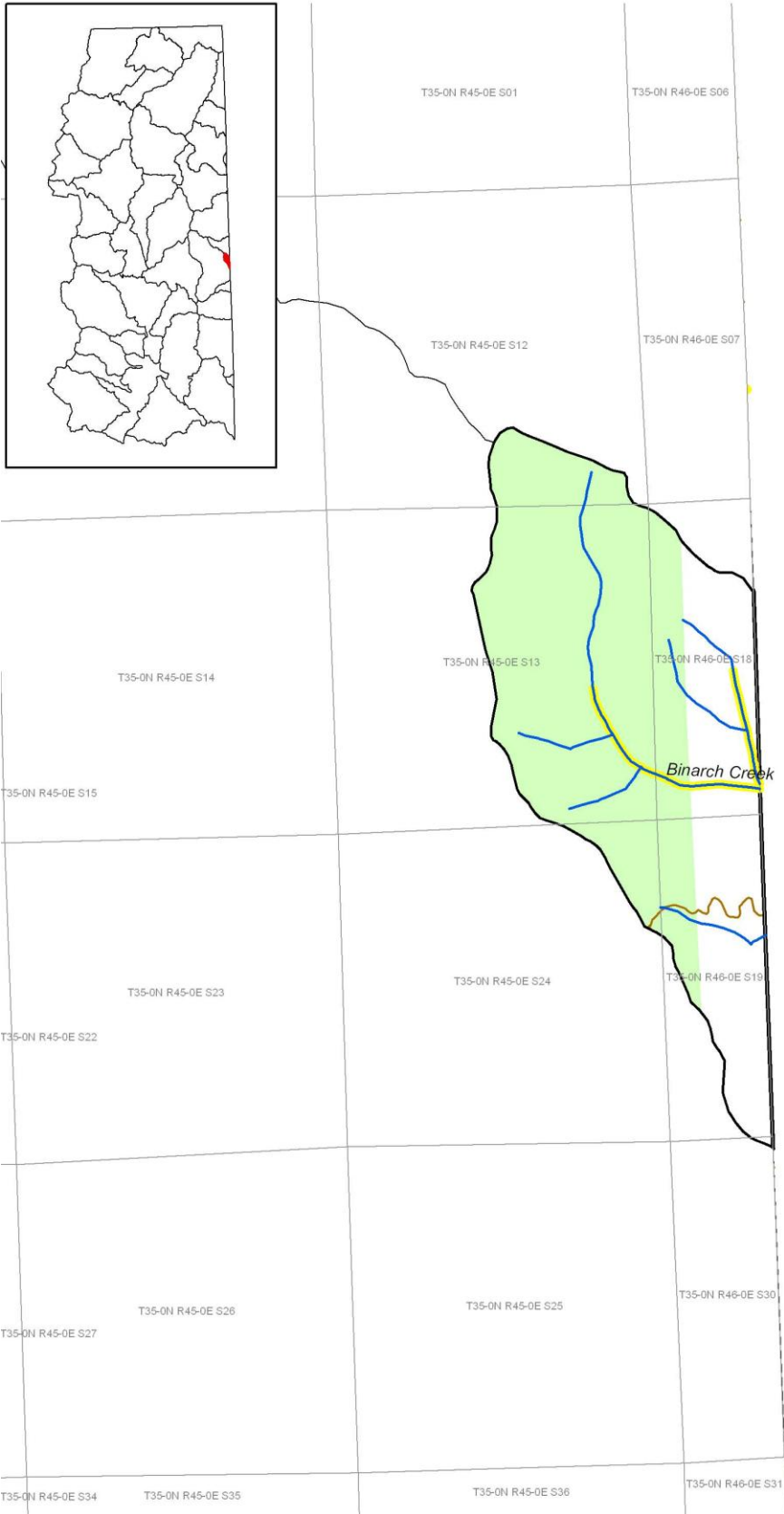
■ Washington State Parks and Recreation Commission

Figure 2

# Big Muddy

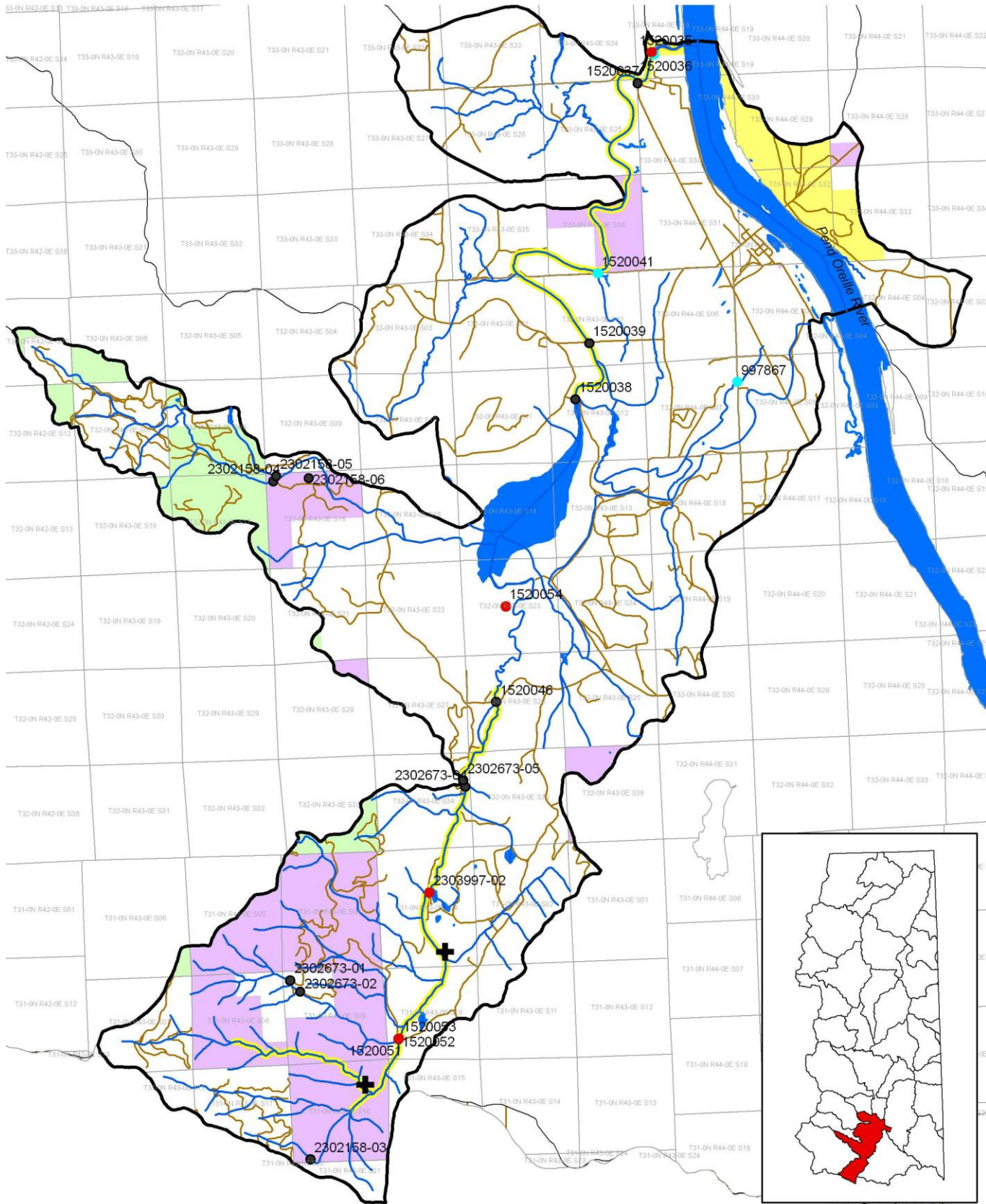


# Binarch



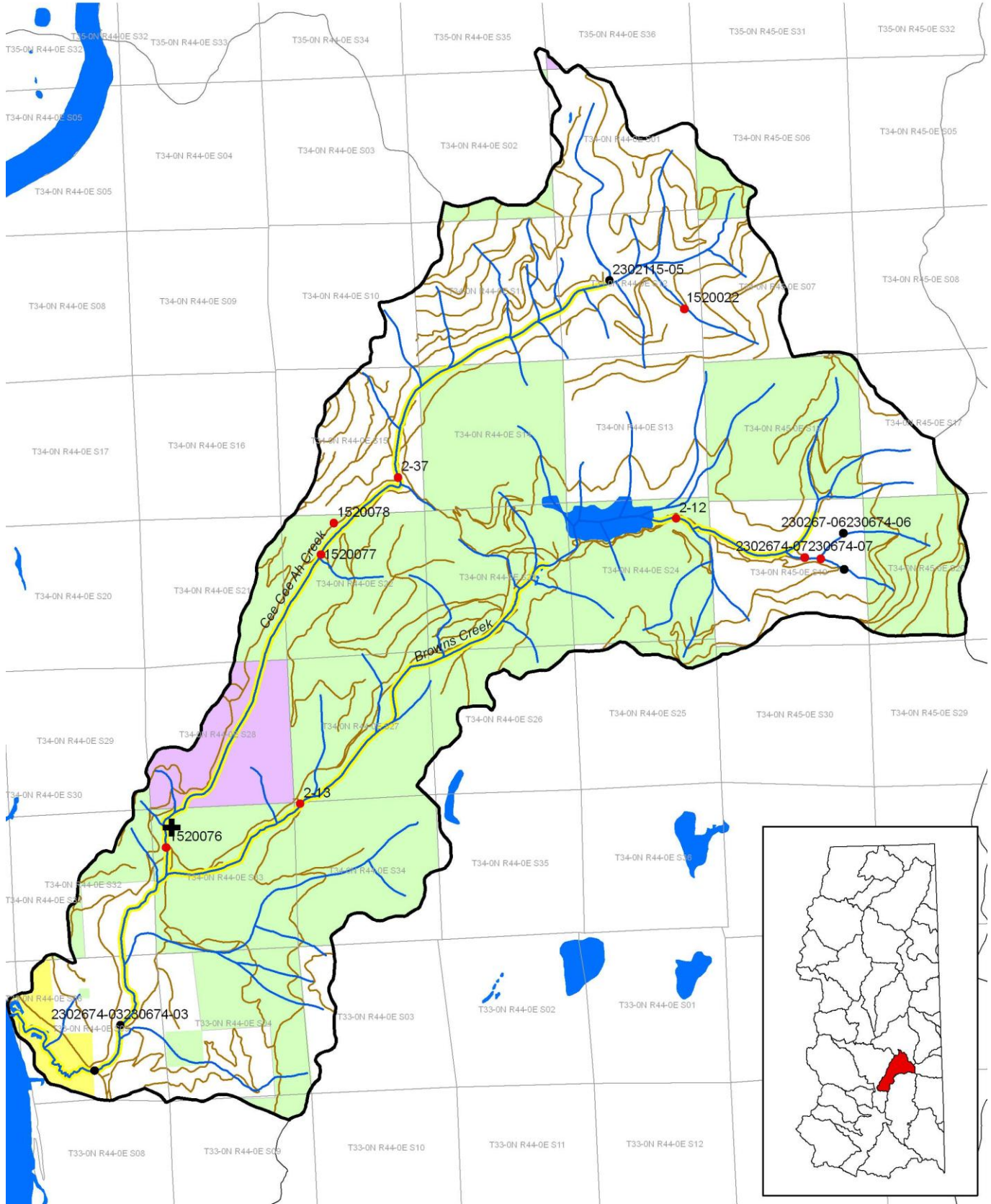


# Calispell

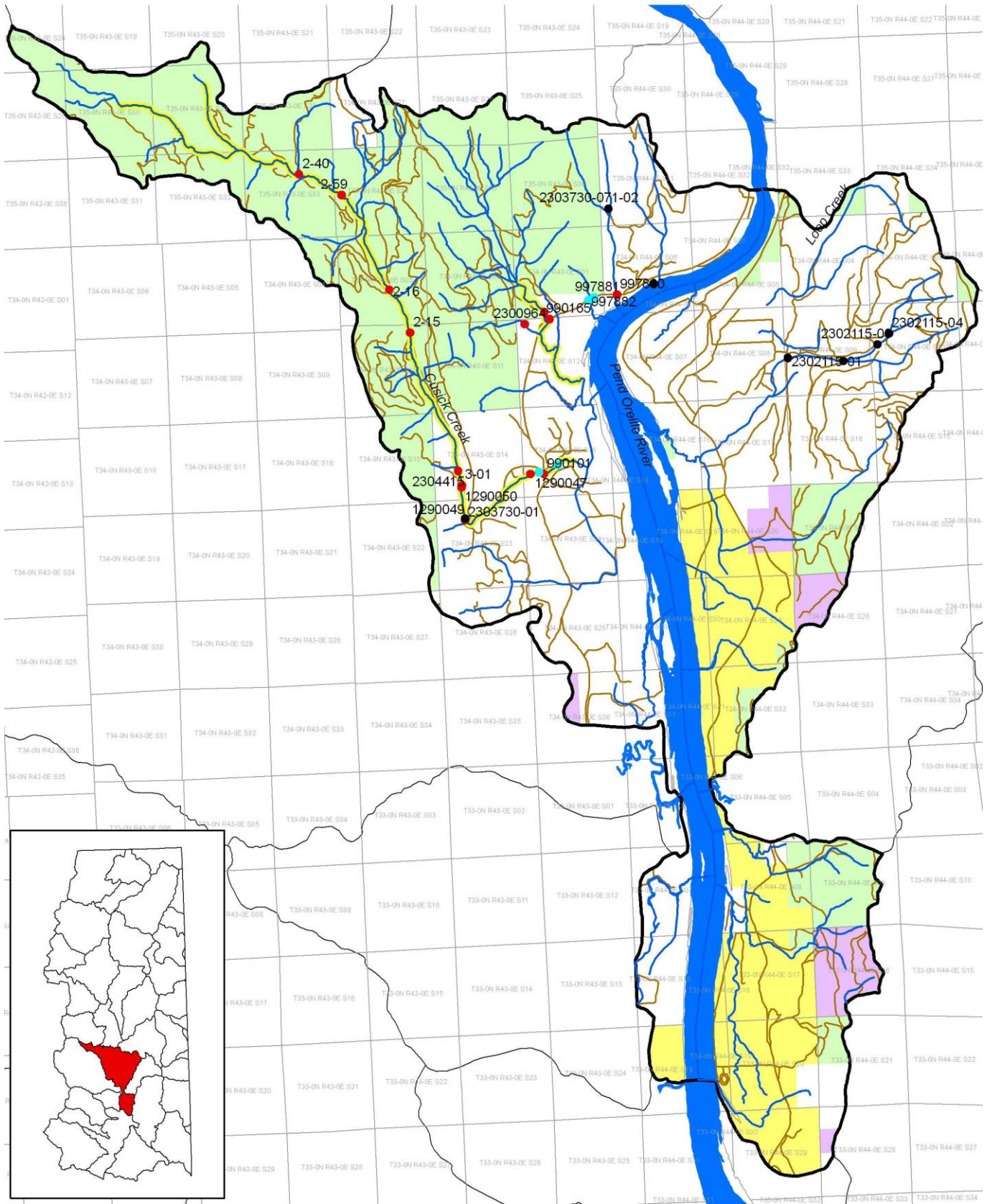




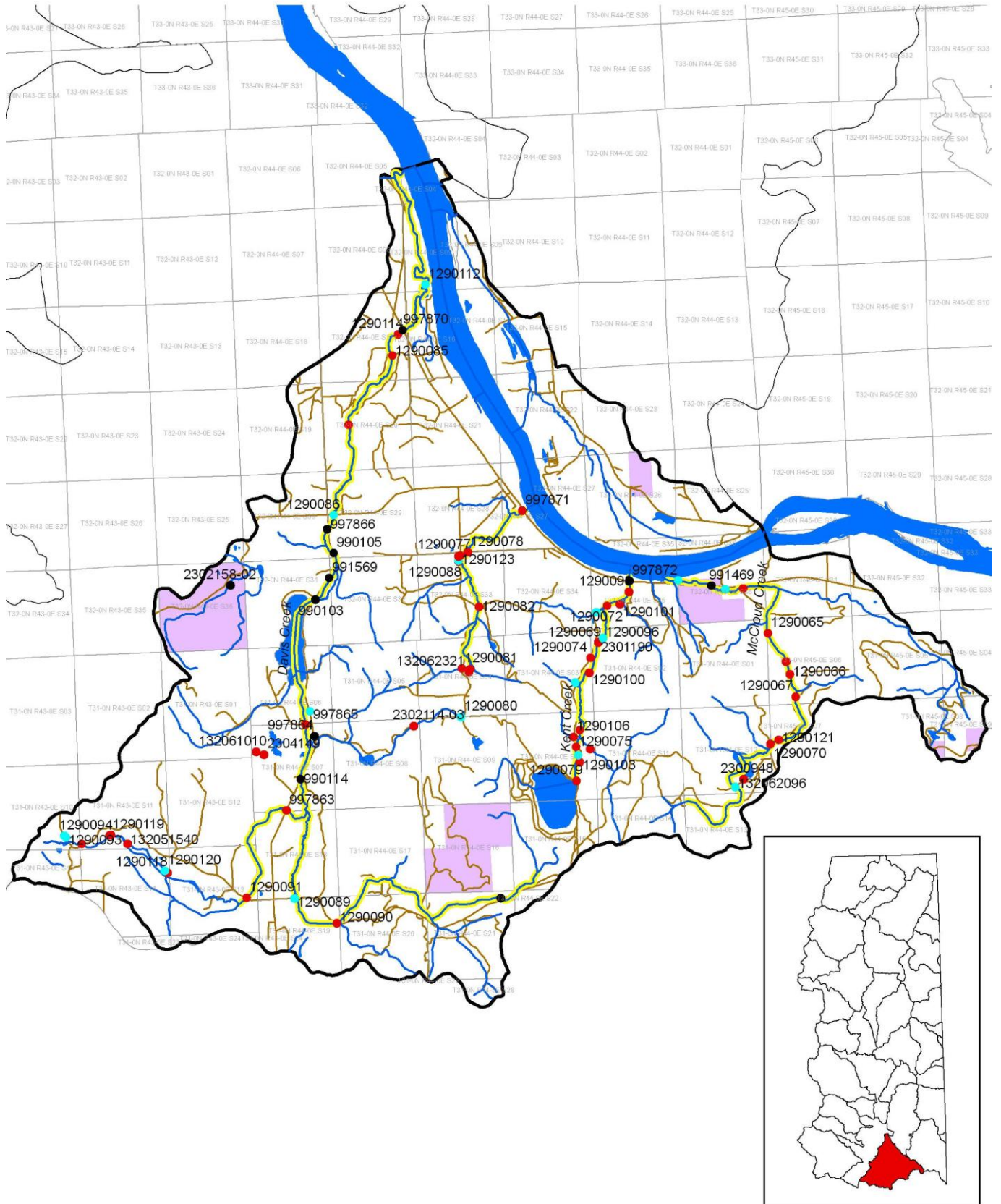
# Cee Cee Ah



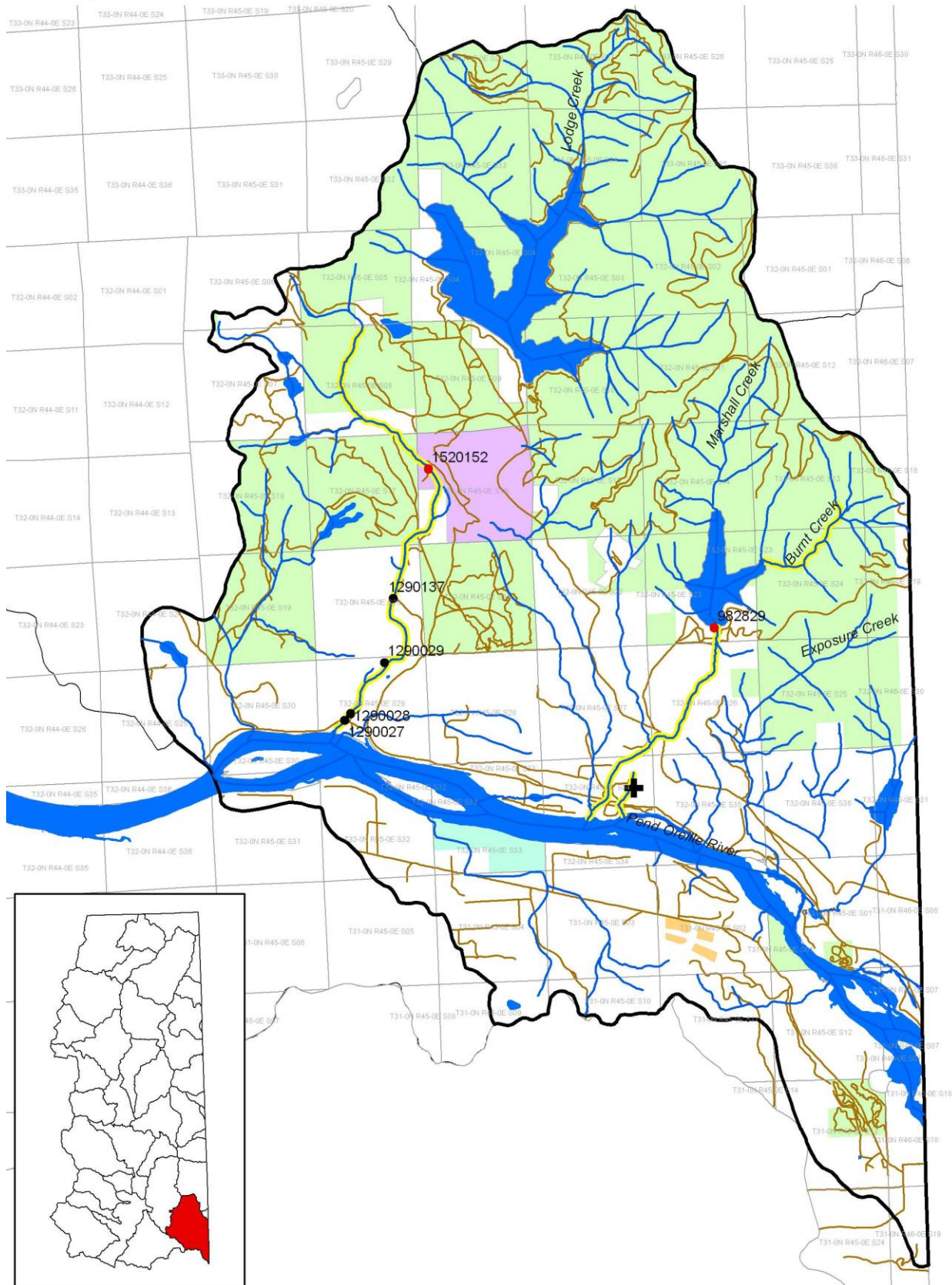
# Cusick



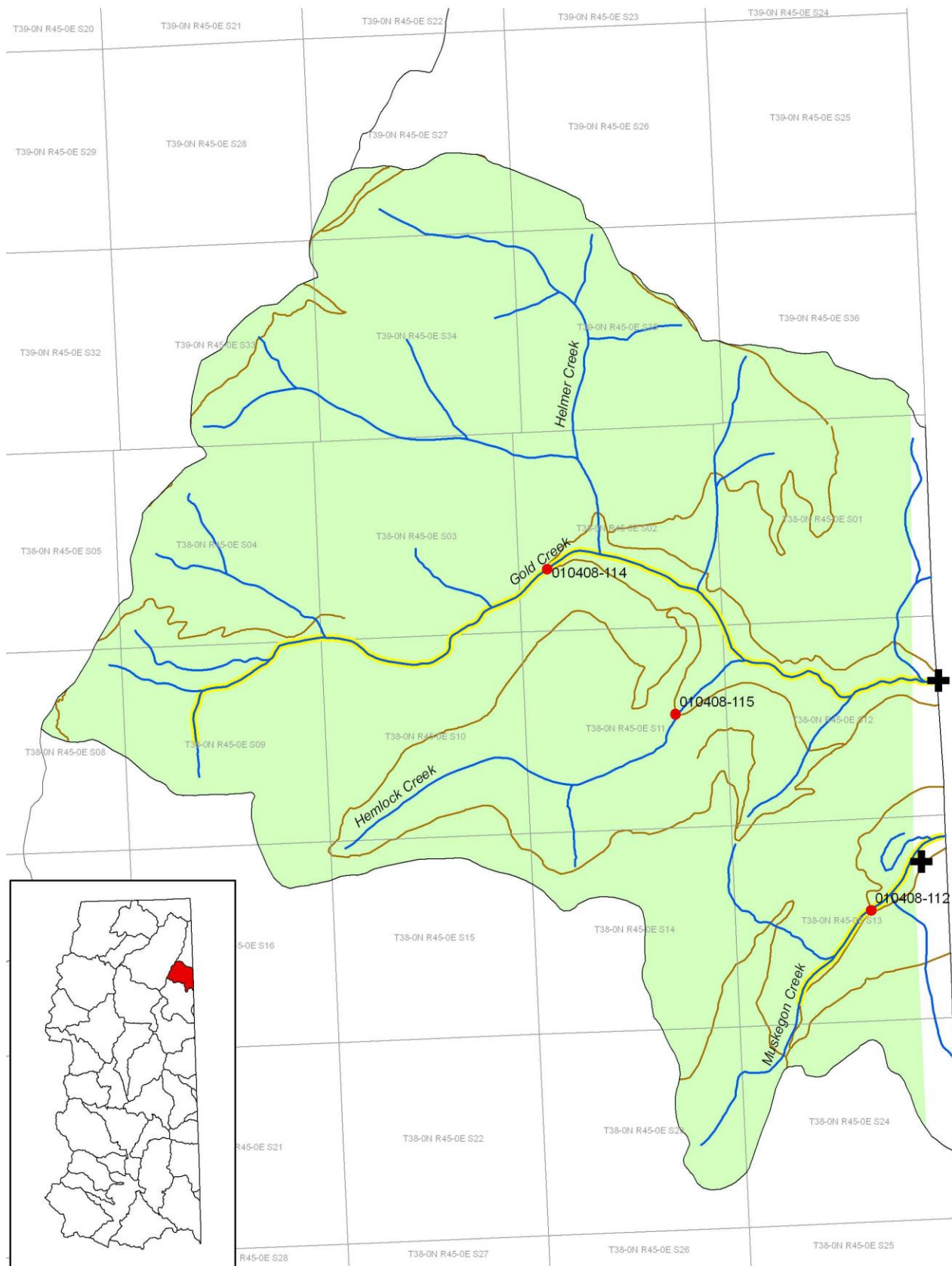
# Davis



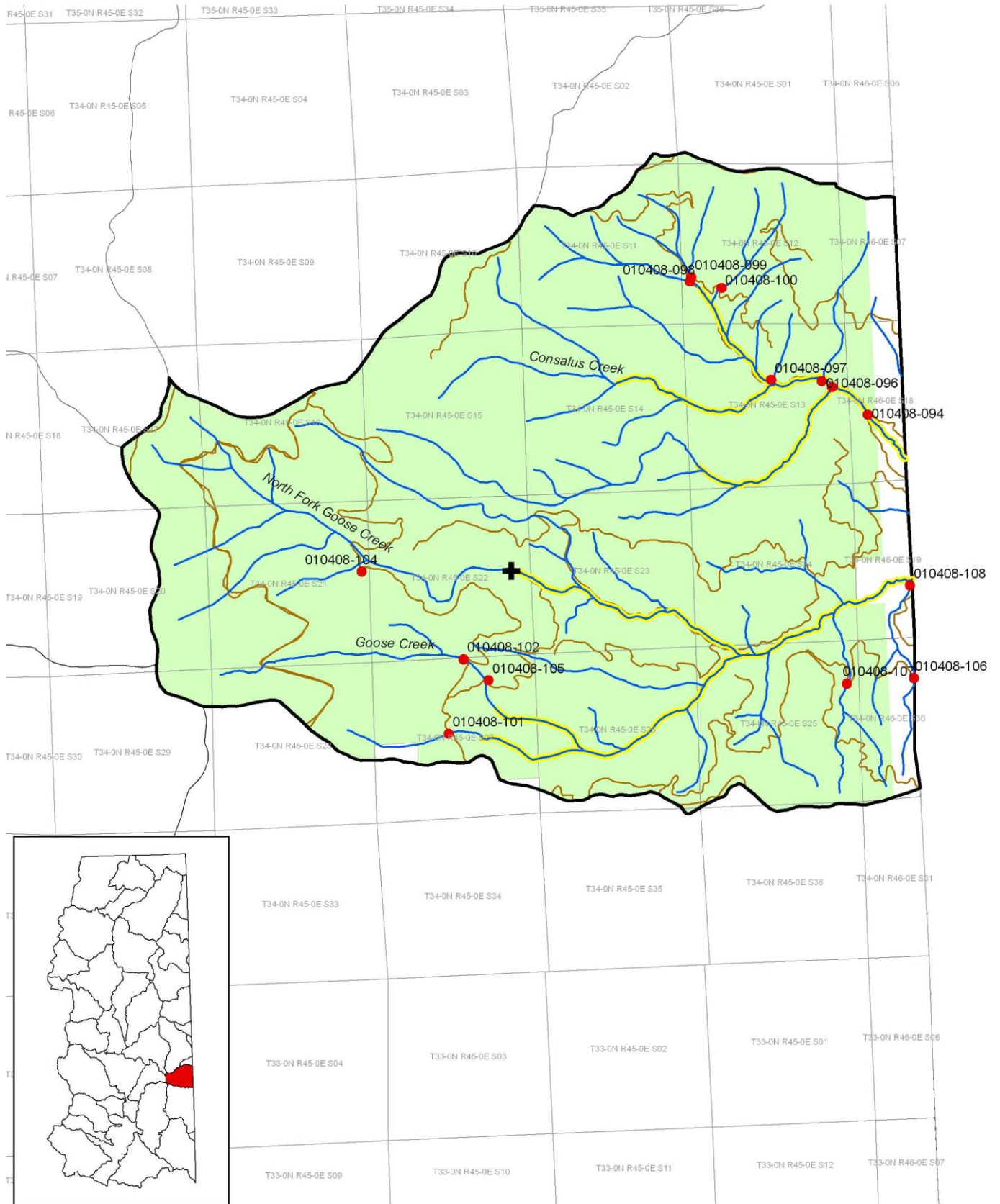
# Exposure-Pend Oreille



# Gold

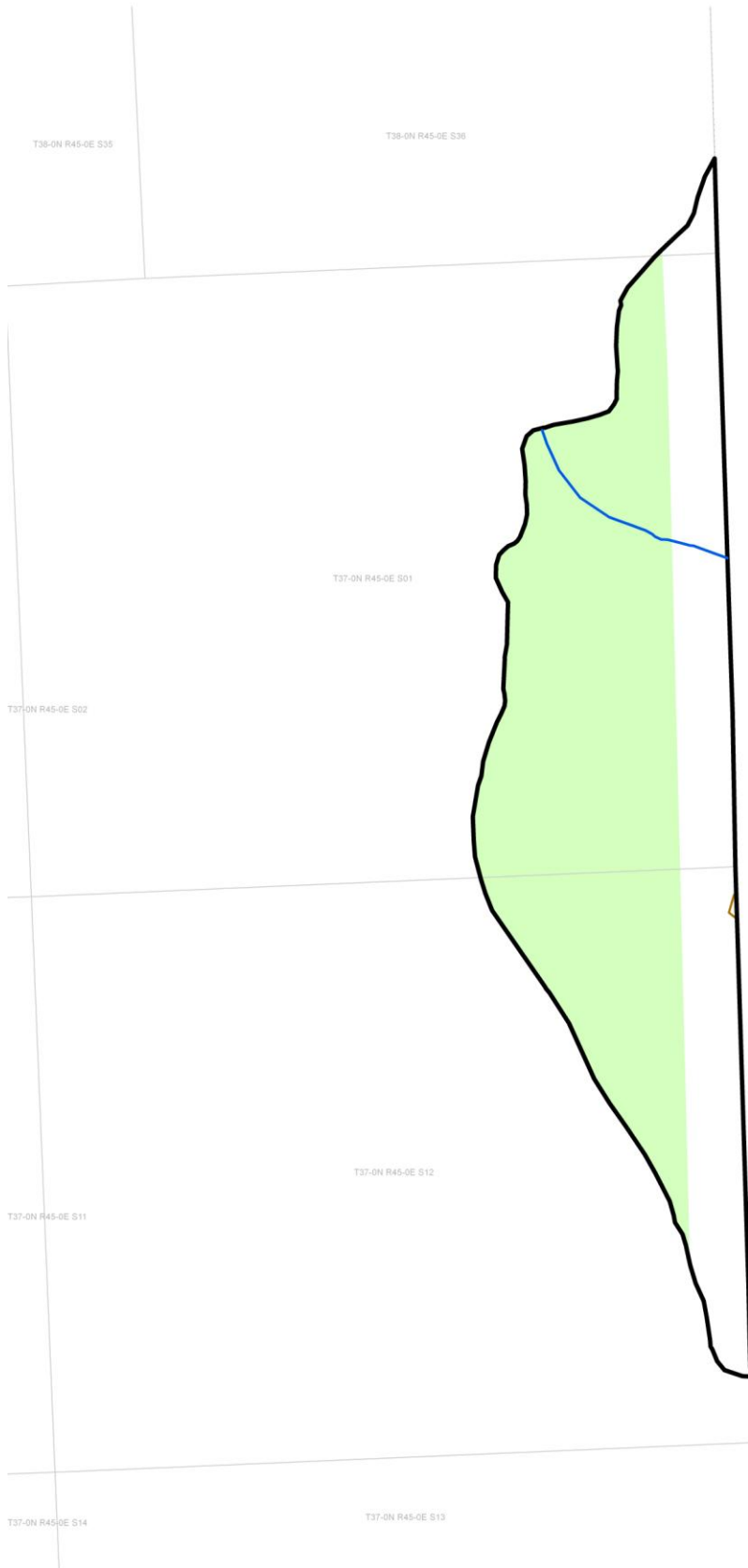
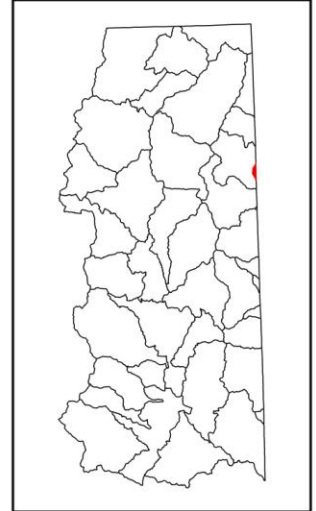


# Goose

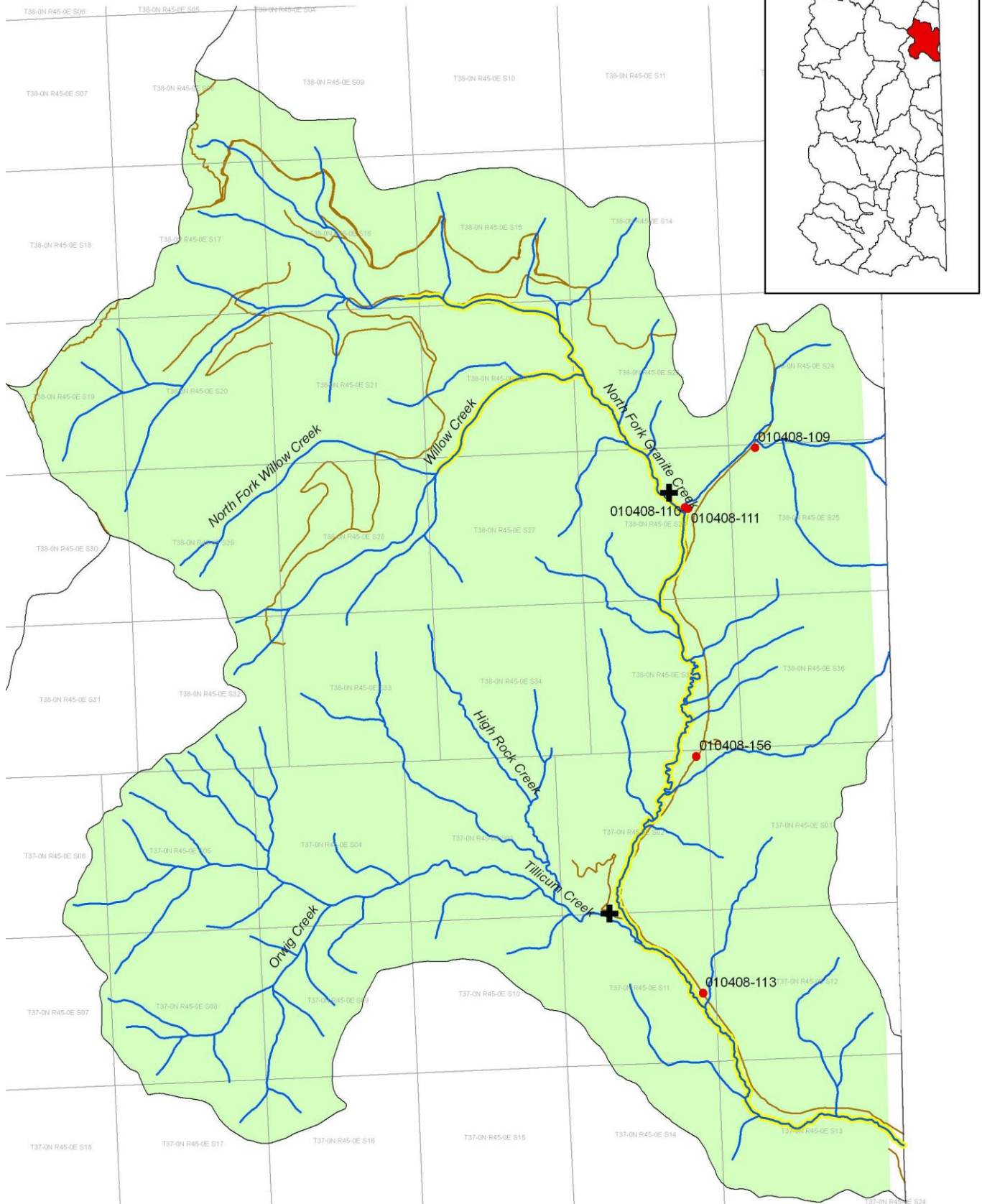




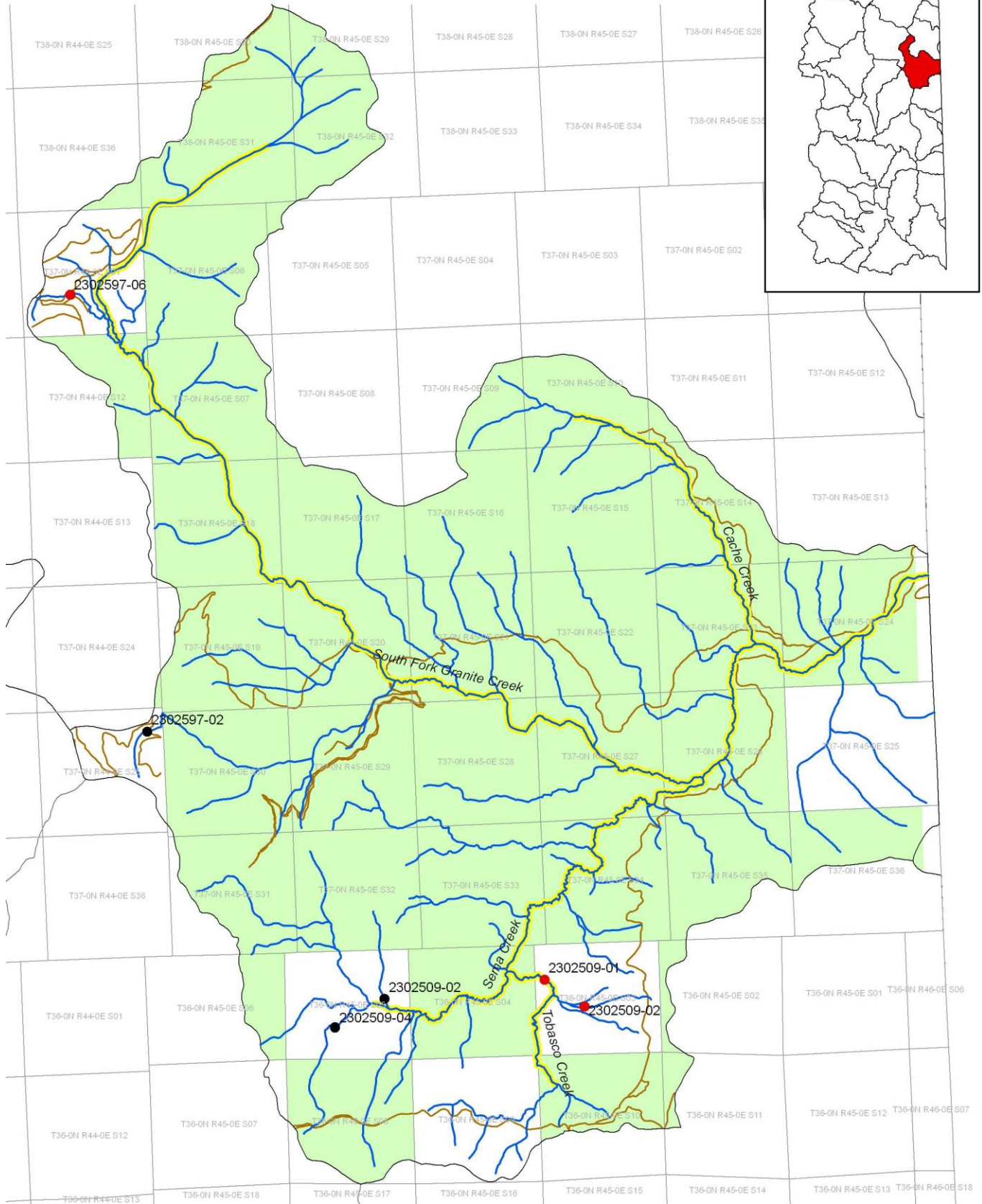
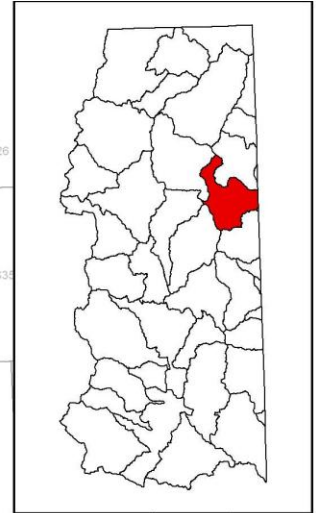
# Granite



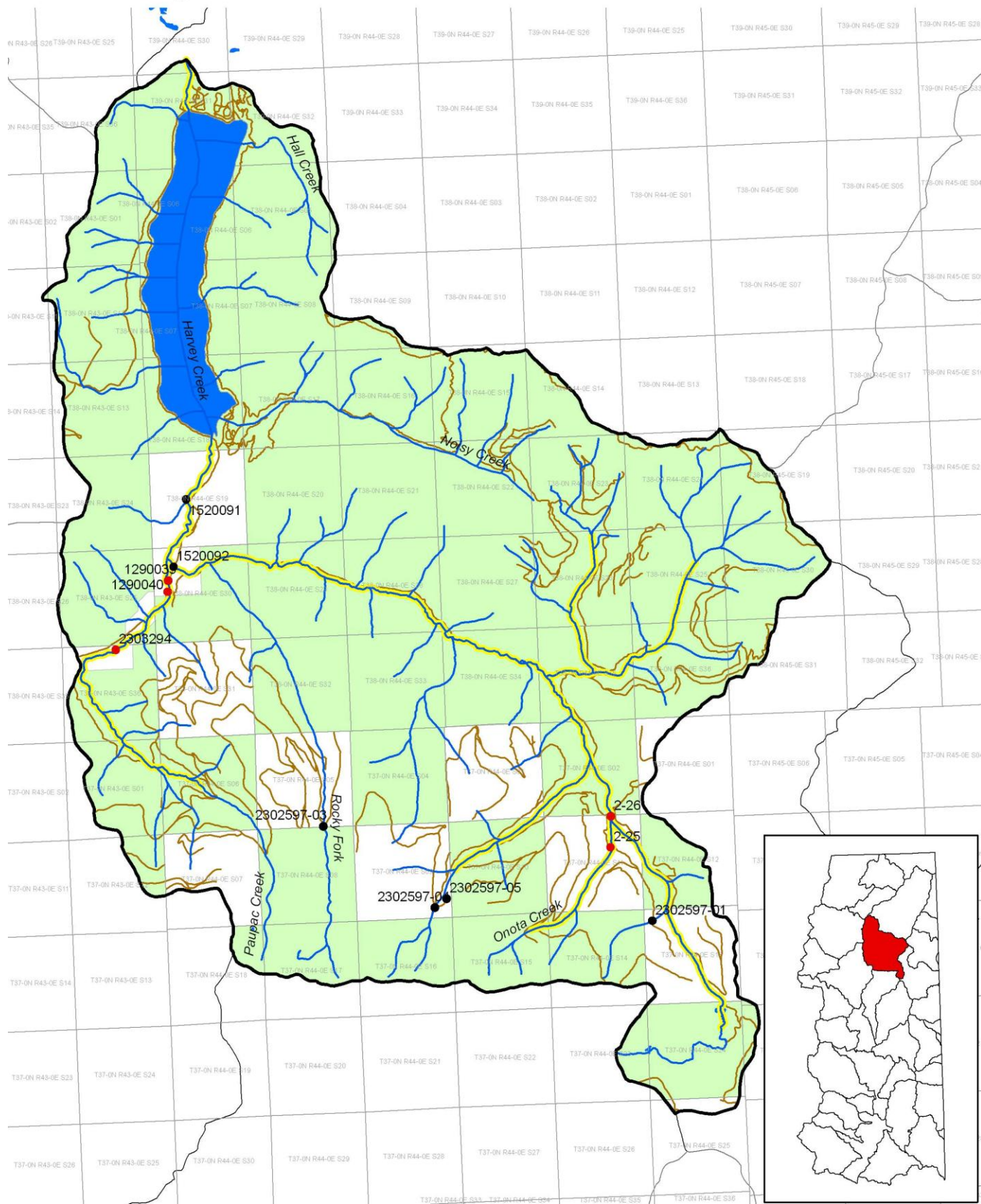
# Granite, North Fork



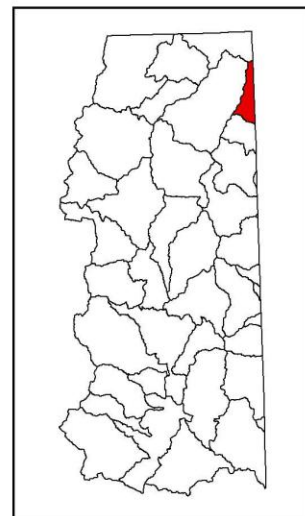
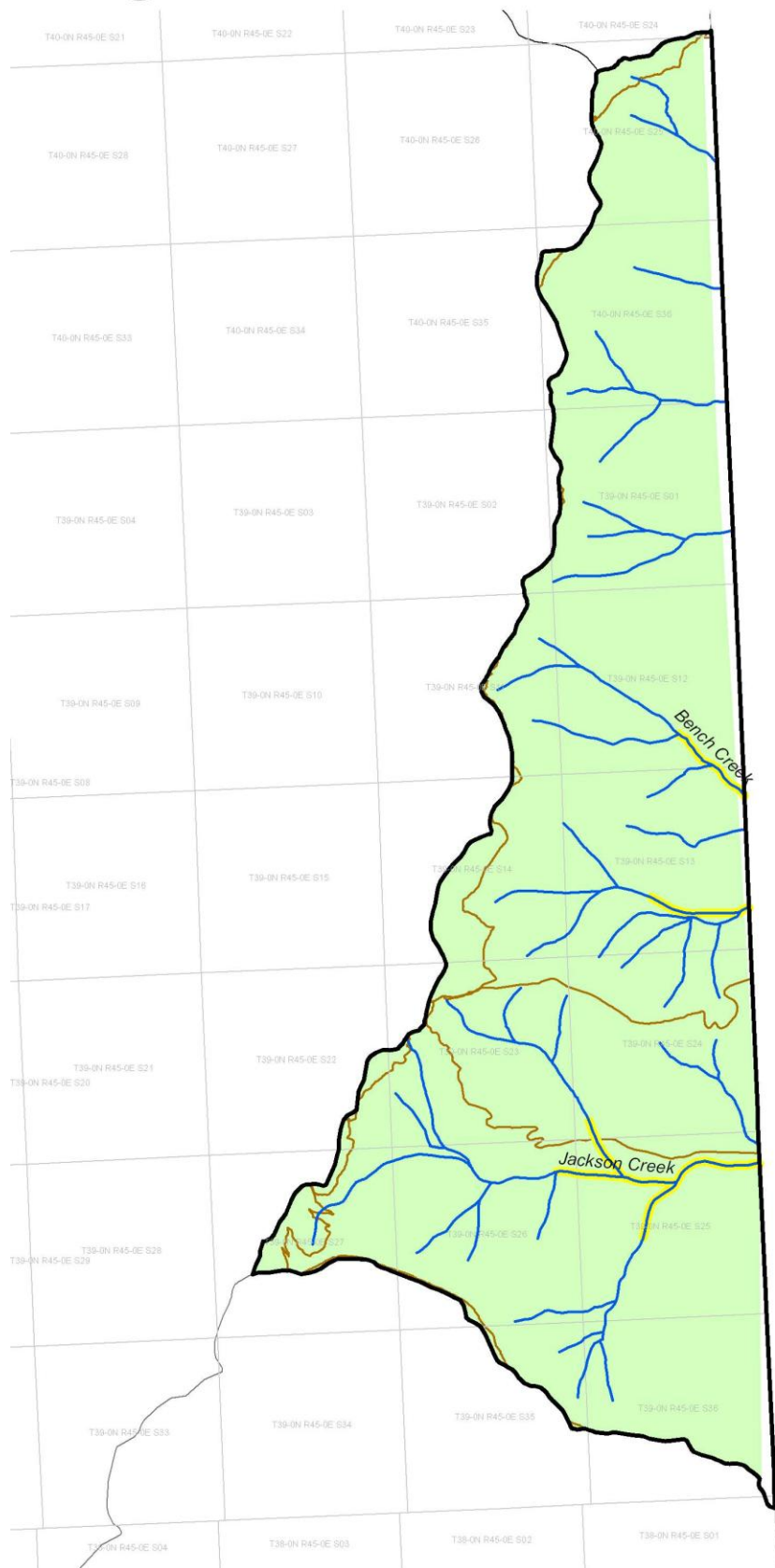
# Granite, South Fork



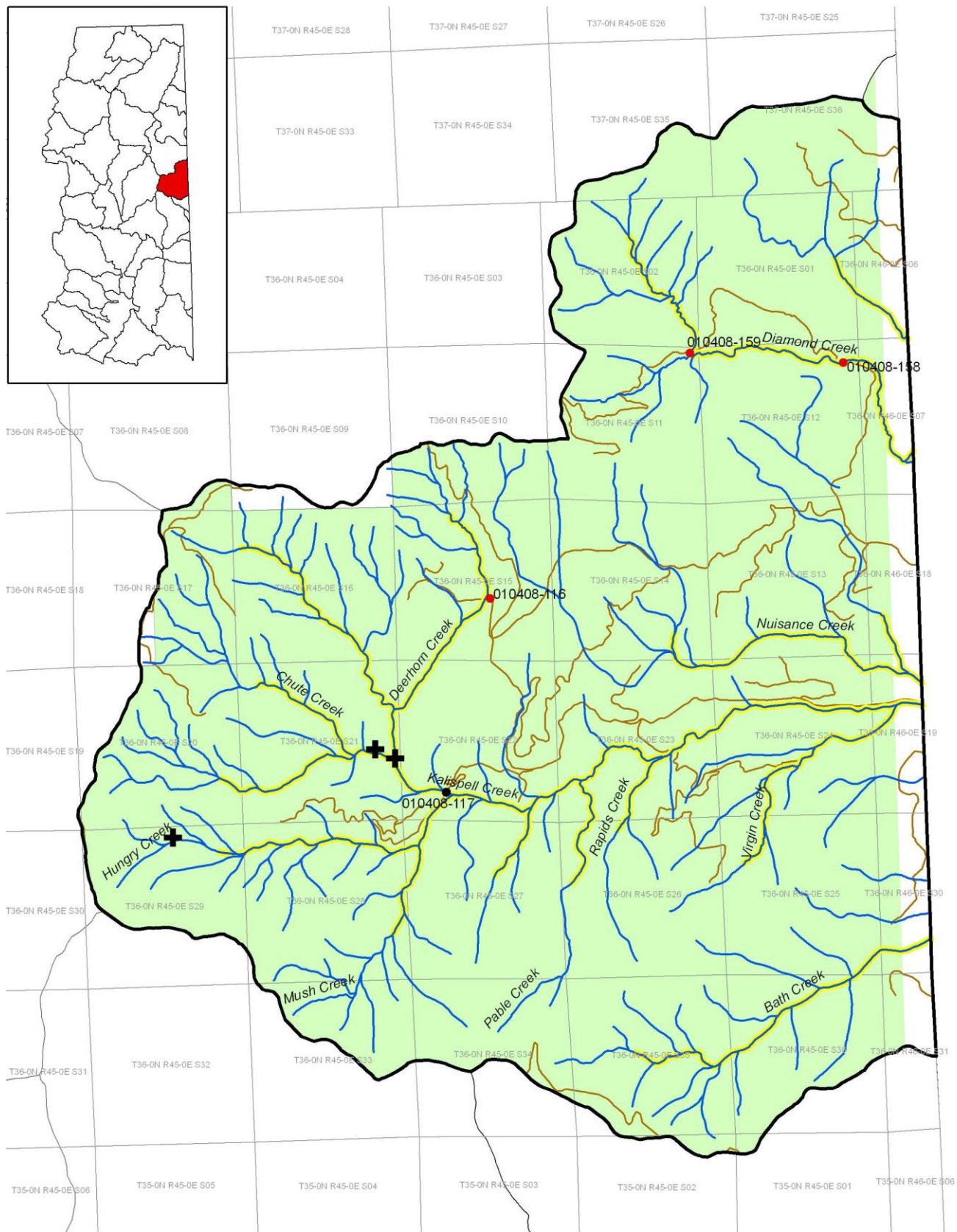
# Harvey



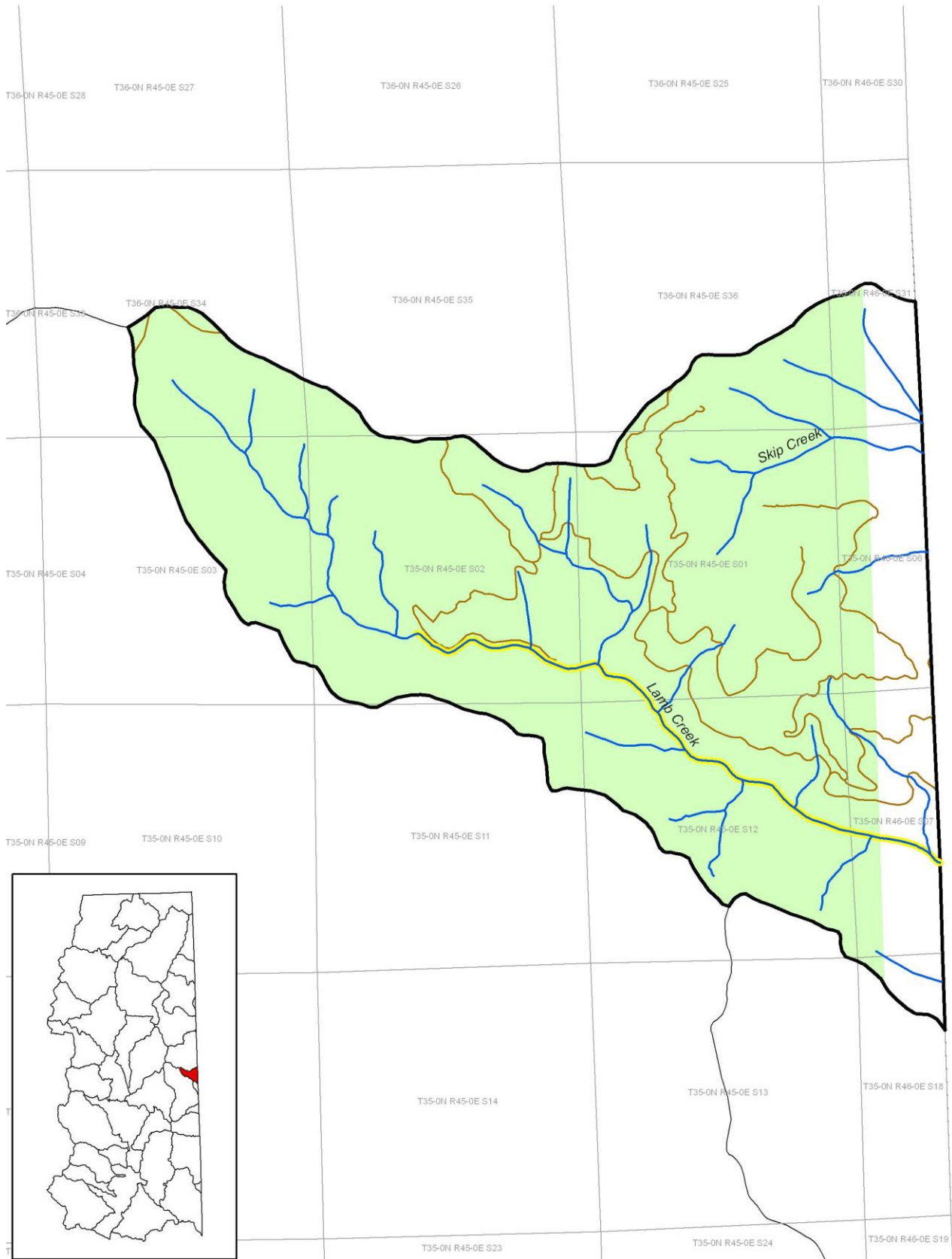
# Hughes Fork



# Kalispell



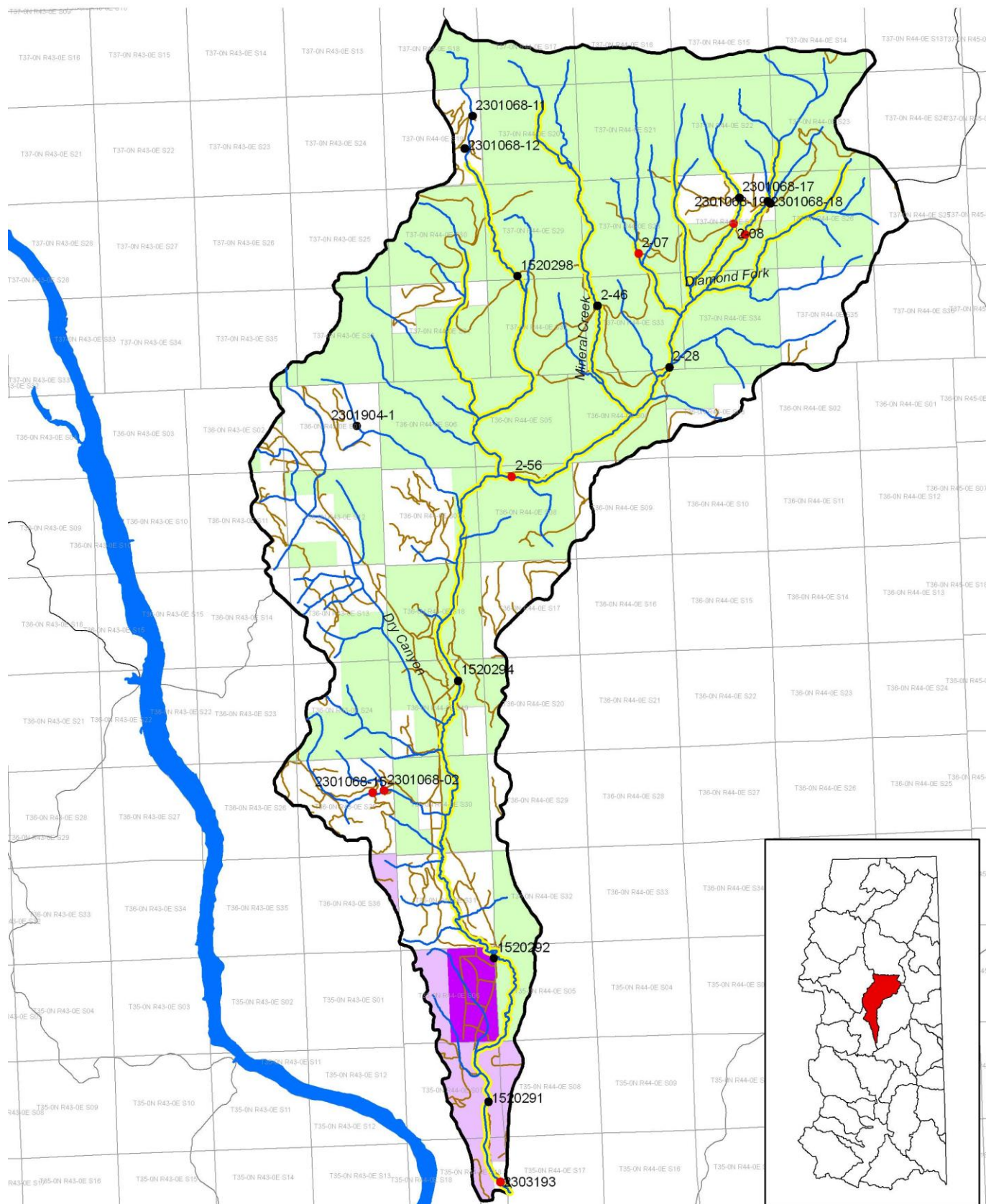
# Lamb



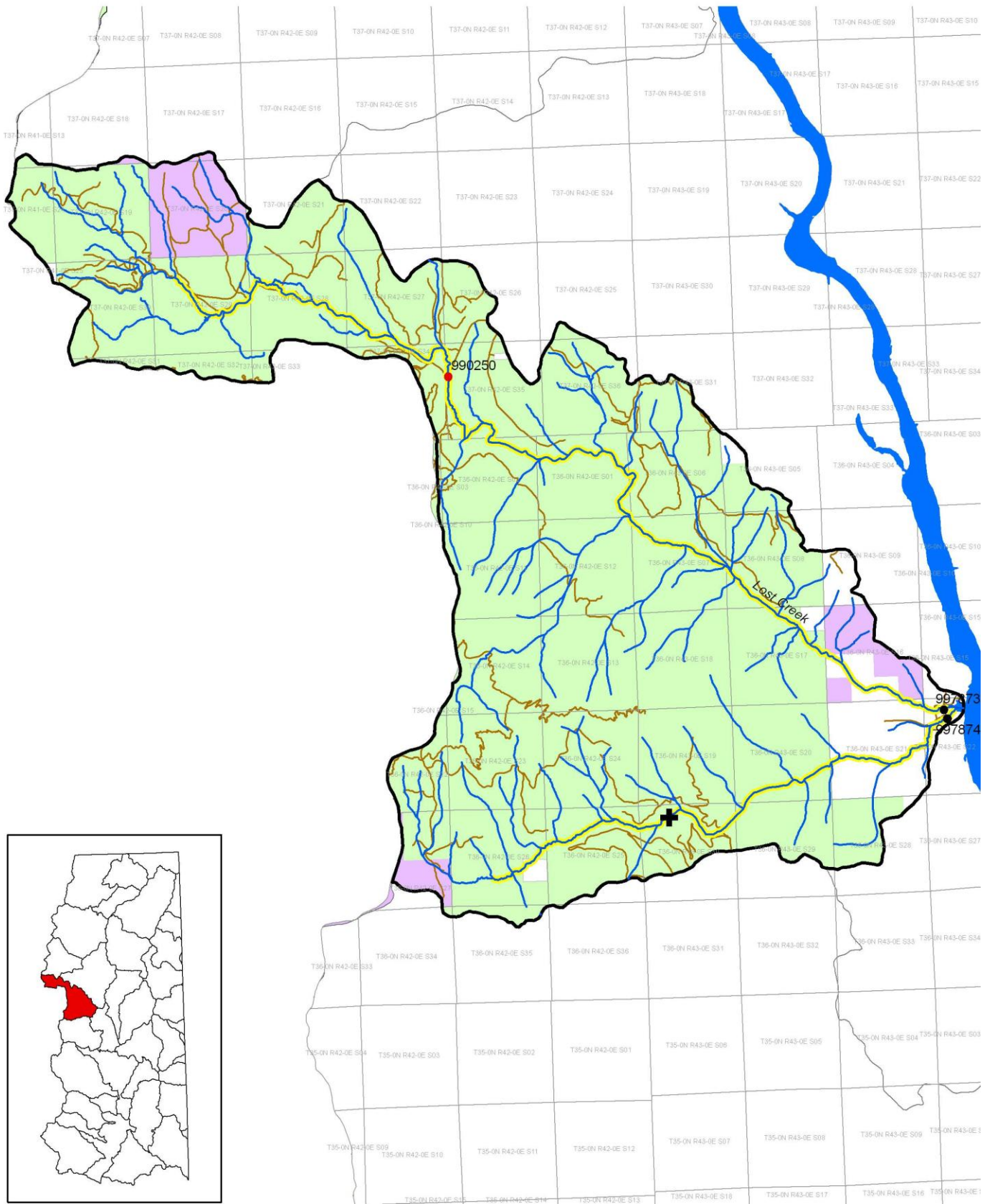




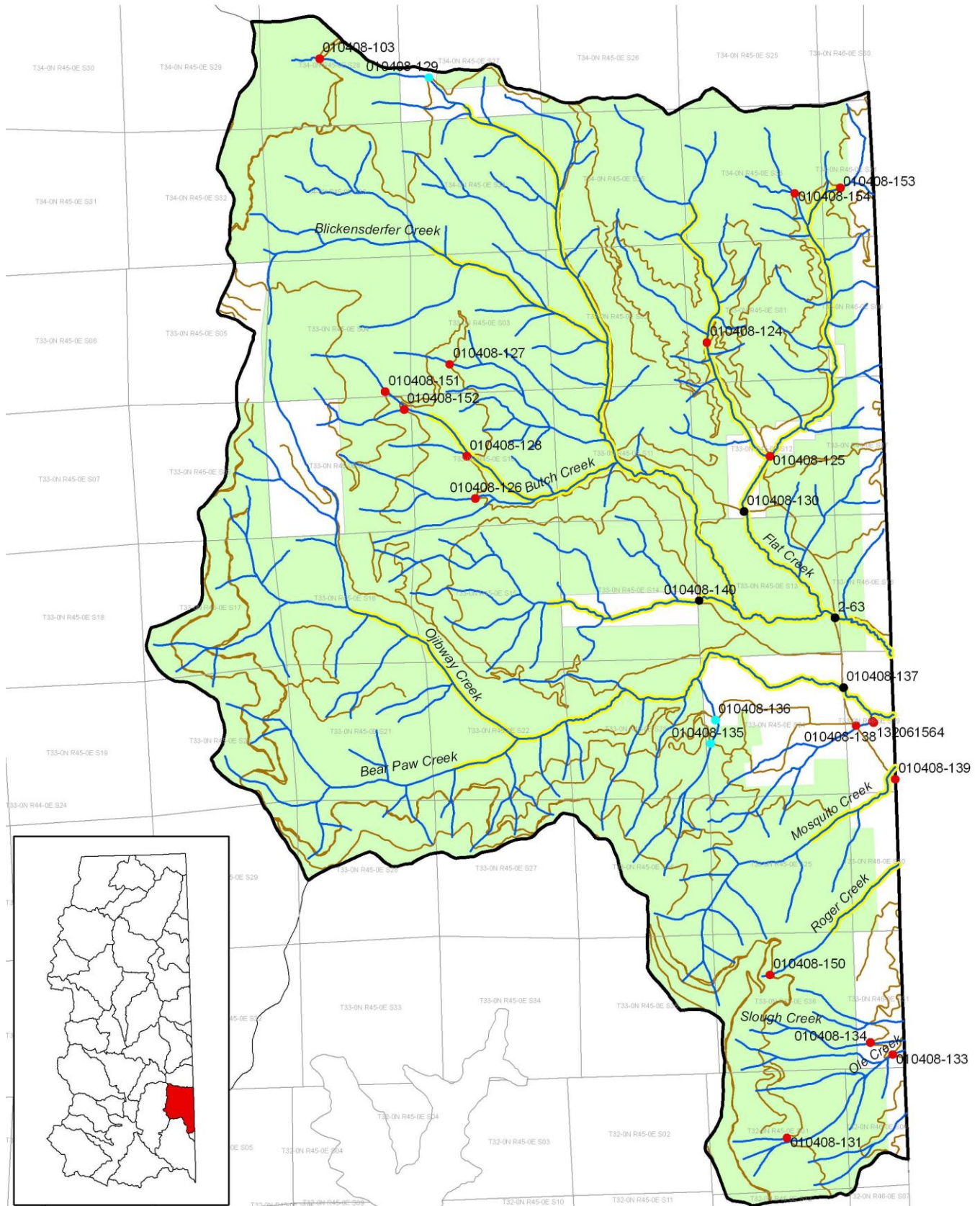
# Leclerc, West Branch



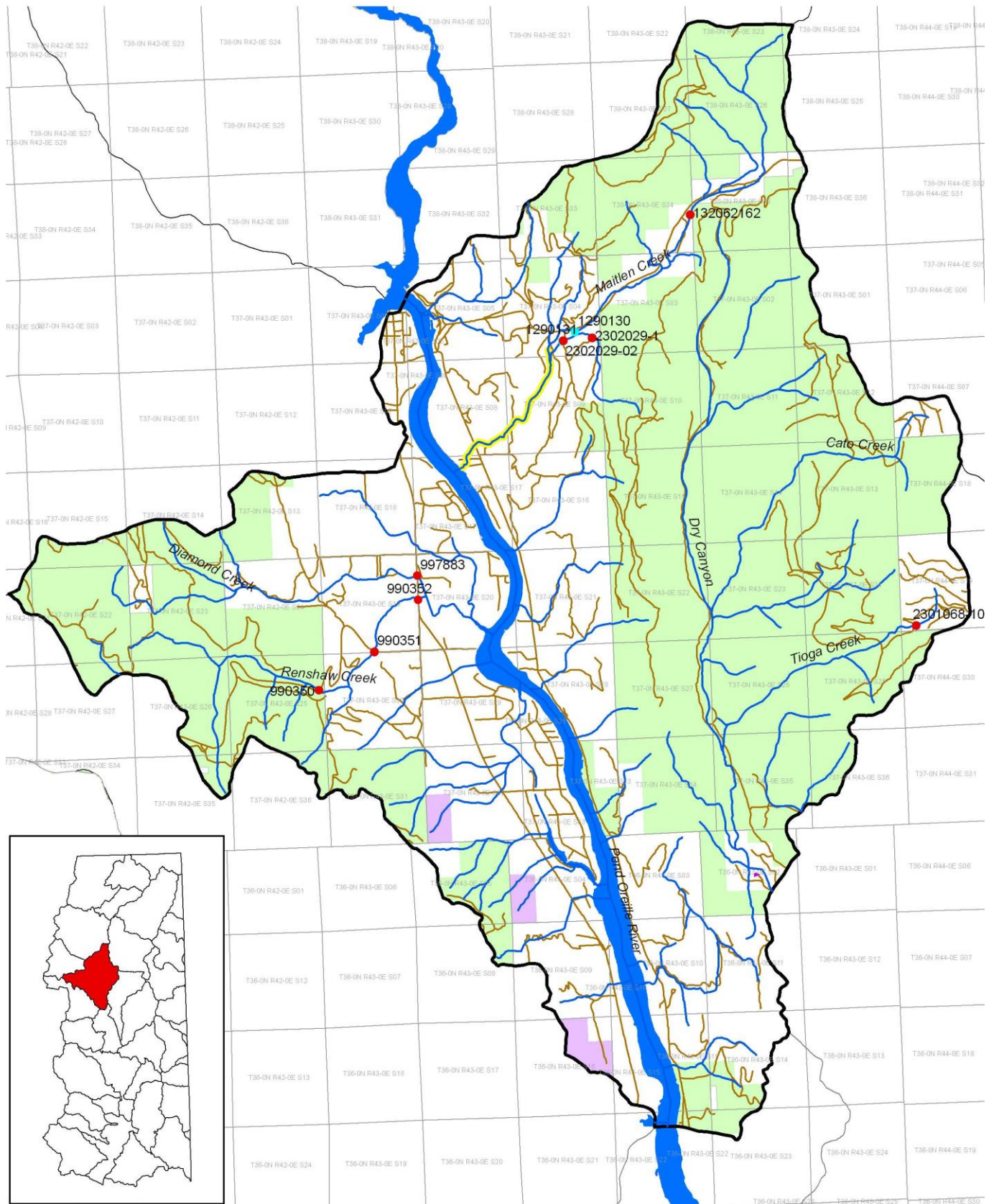
# Lost



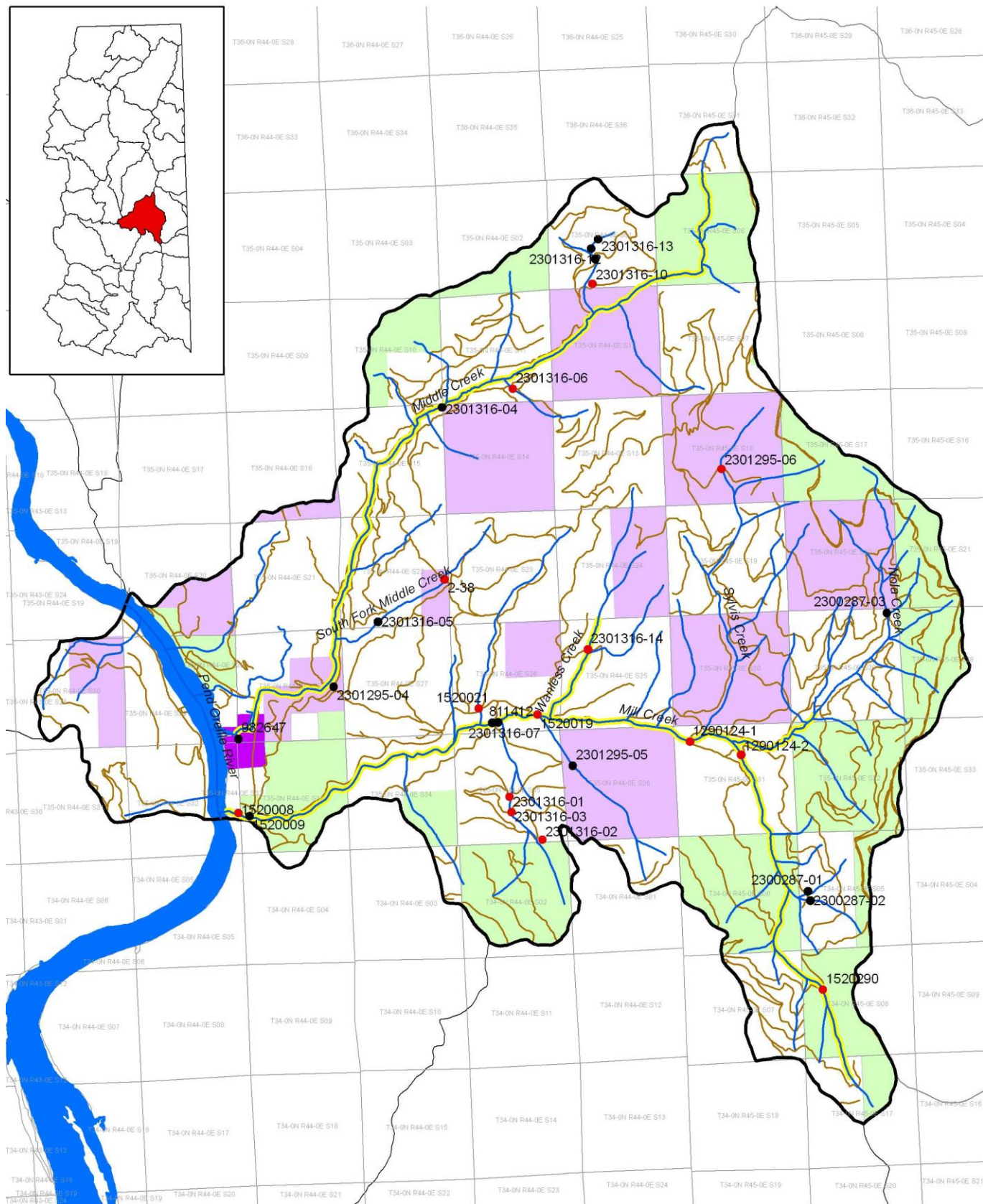
# Lower West Branch Priest



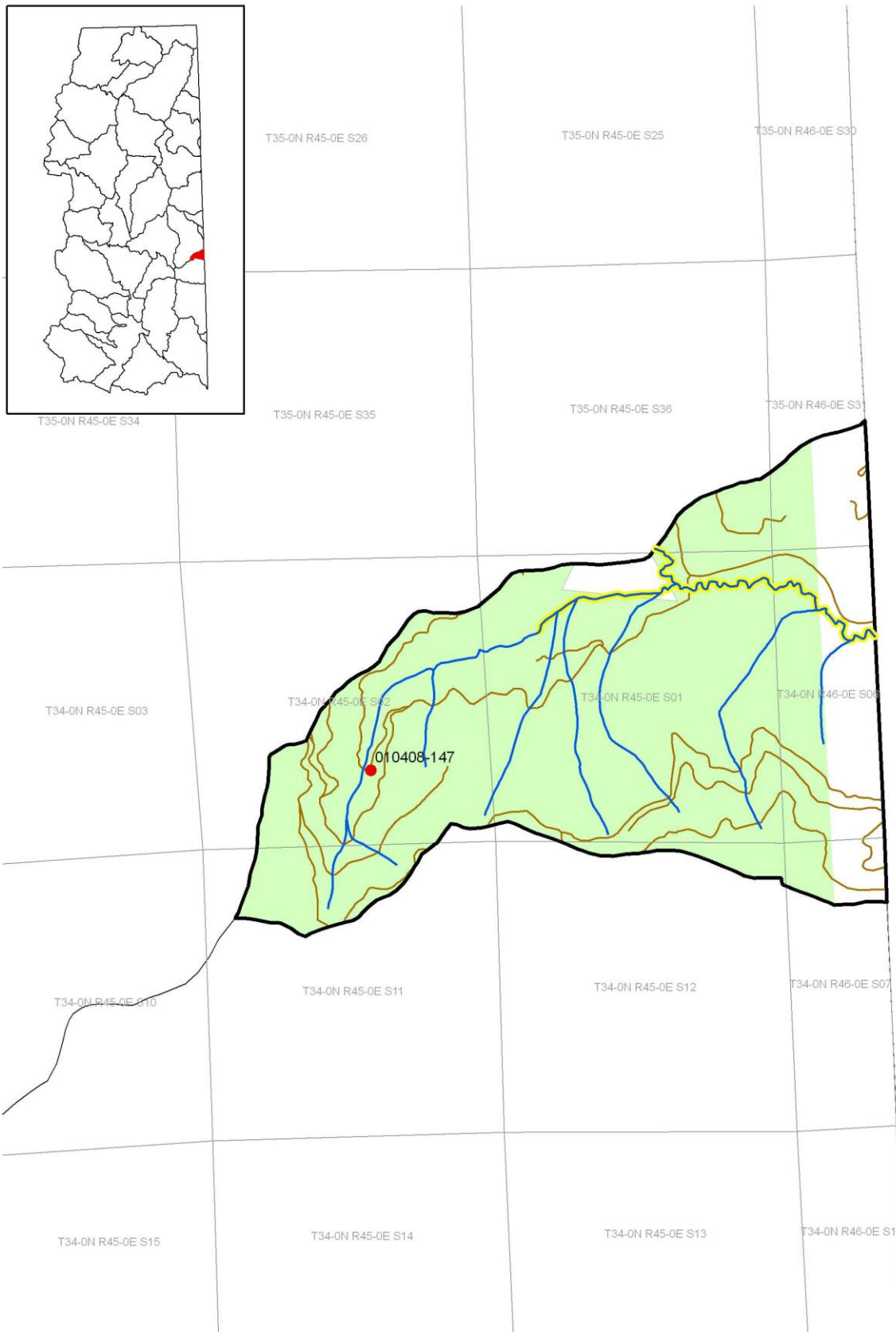
# Maitlen



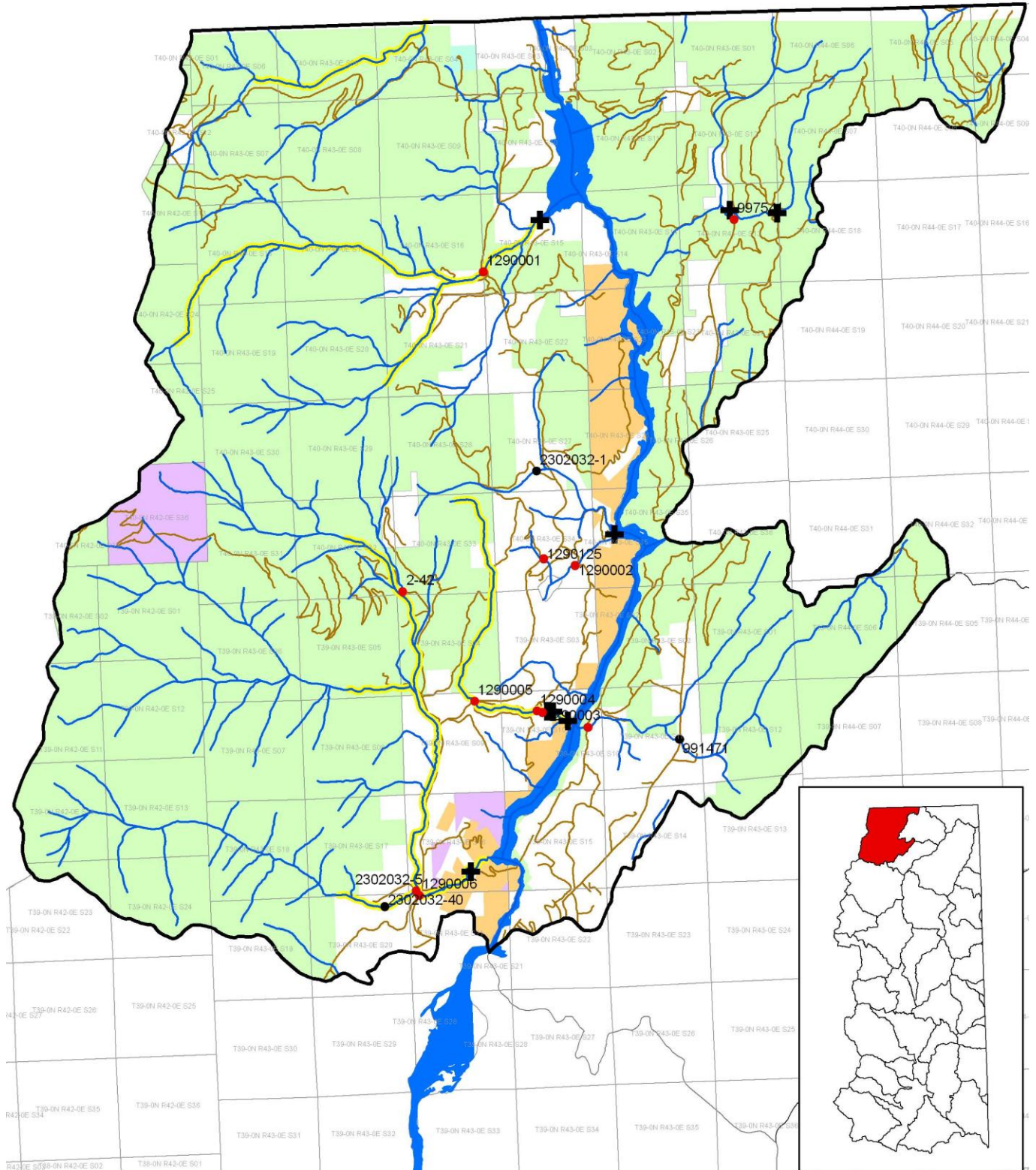
# Middle



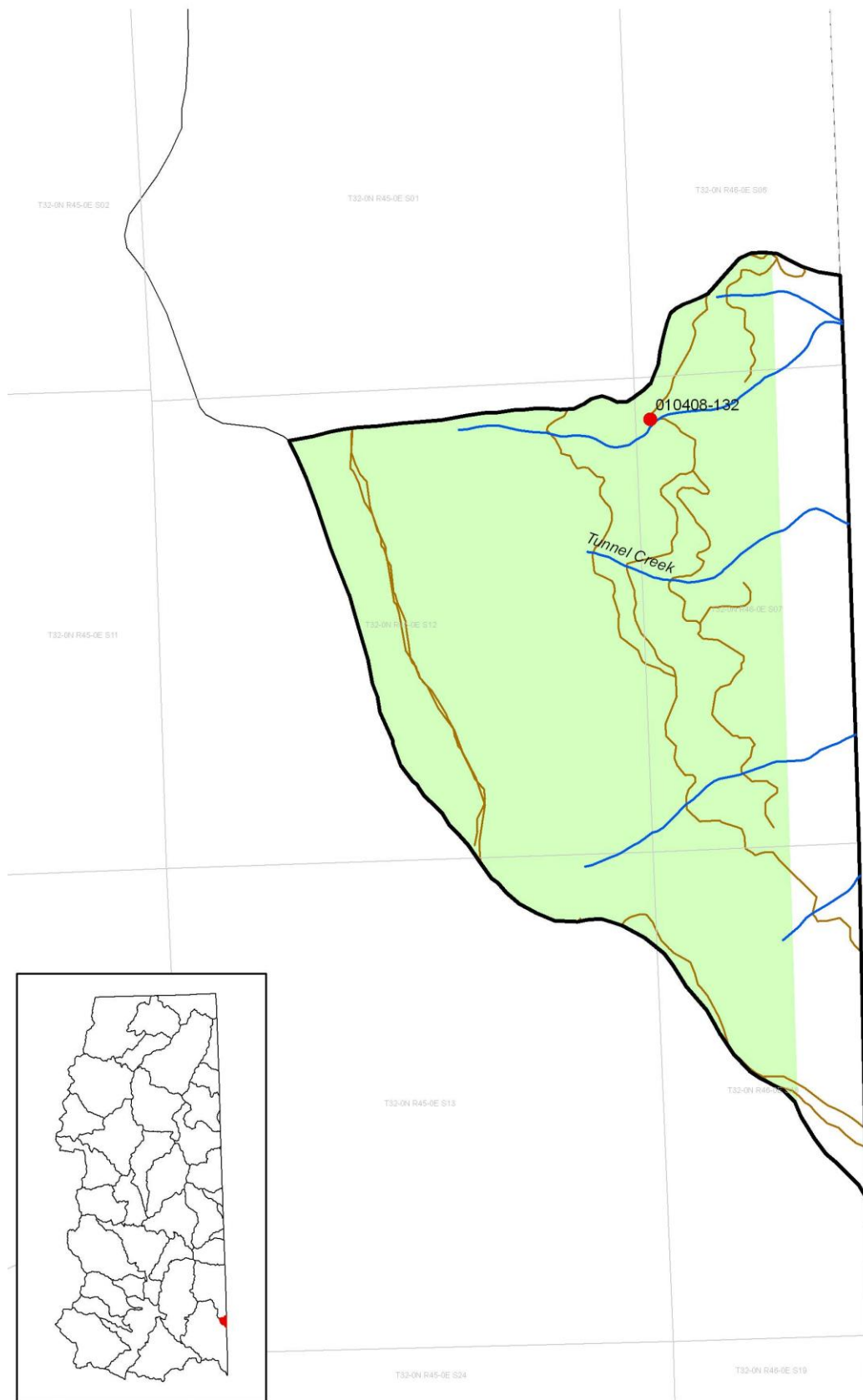
# Mission Falls - UWB Priest



# PeeWee-Upper Pend Oreille

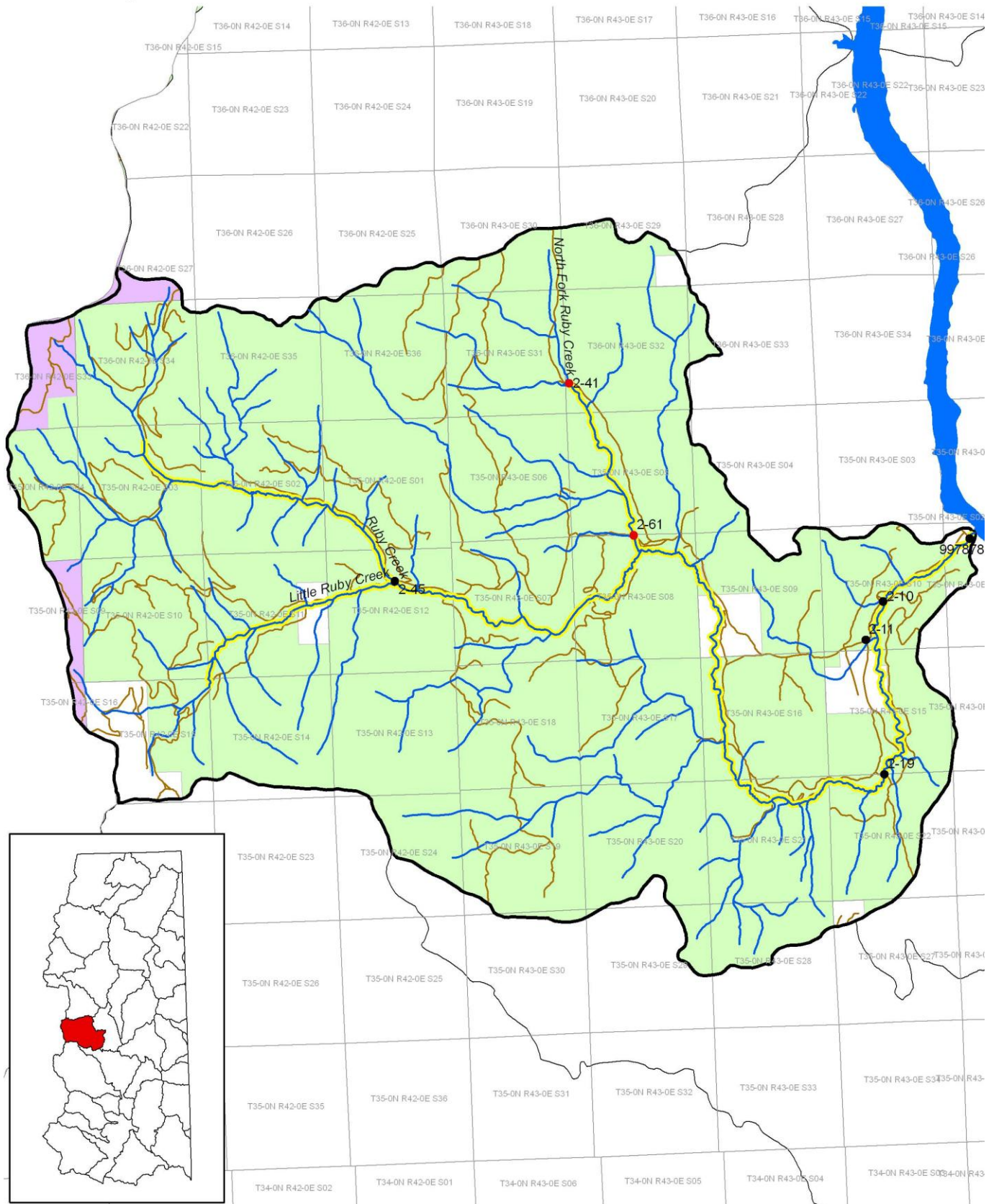


# Pine-Lower West Branch Priest

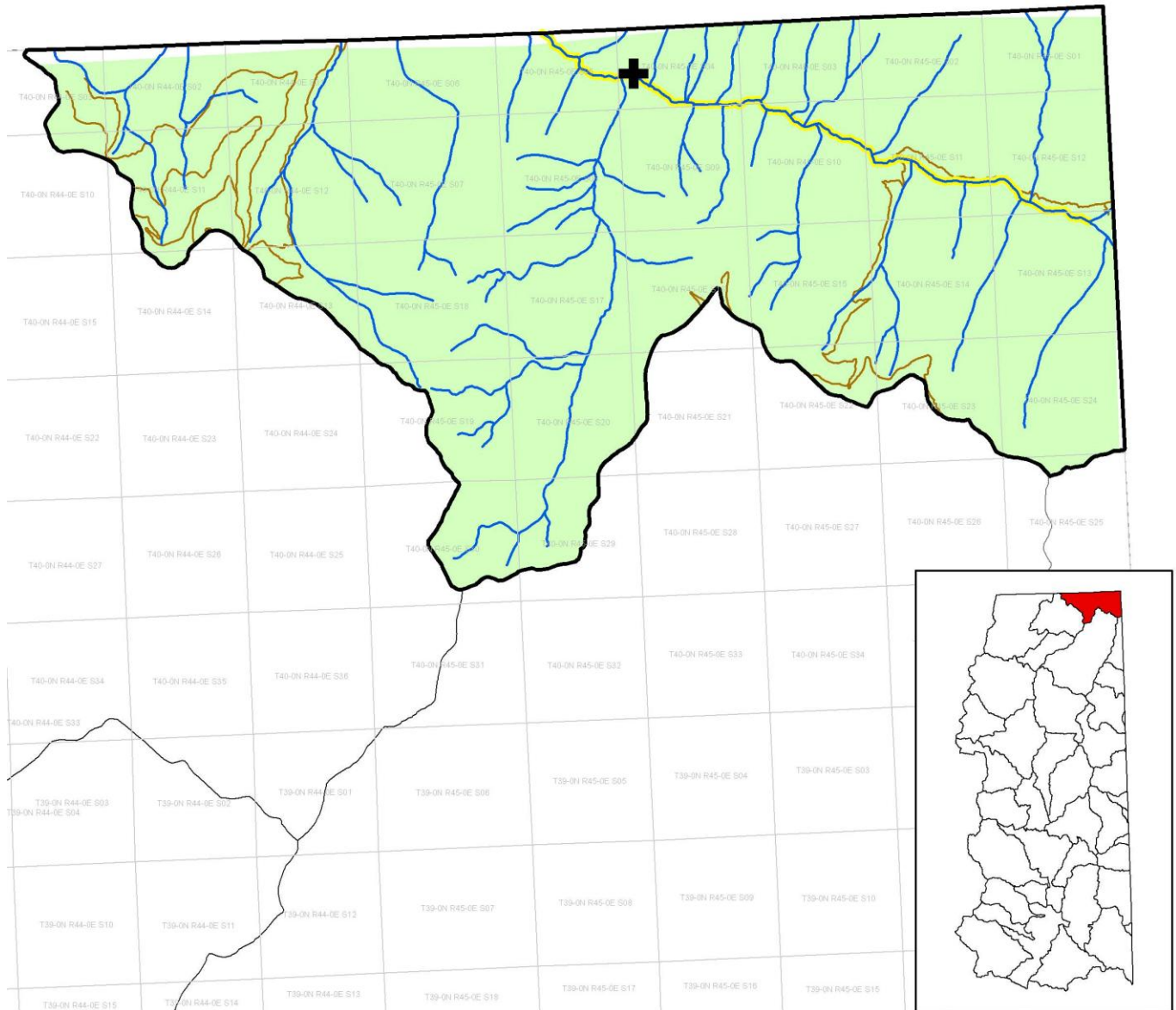




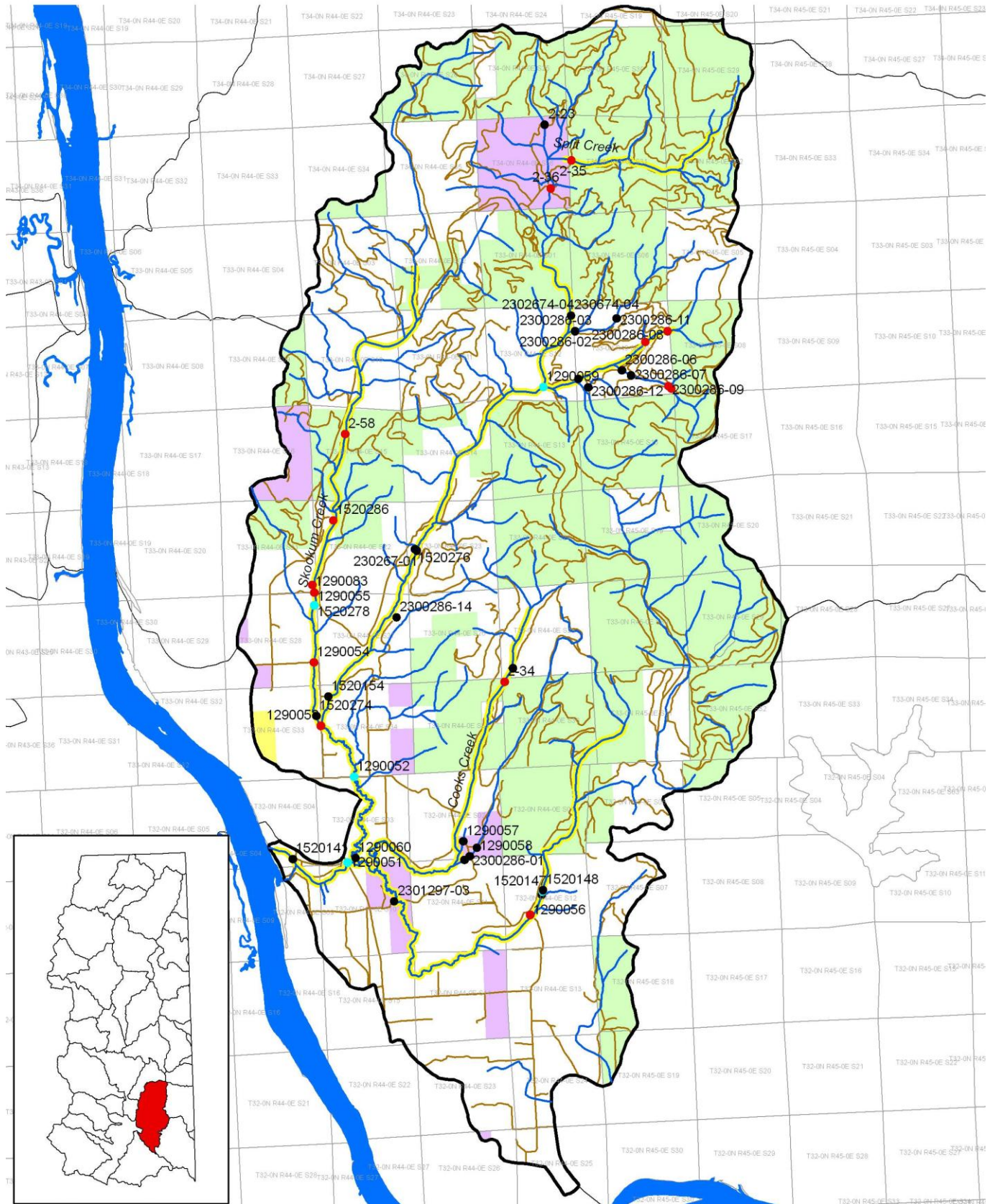
# Ruby



# Salmo



# Skookum



# Slate

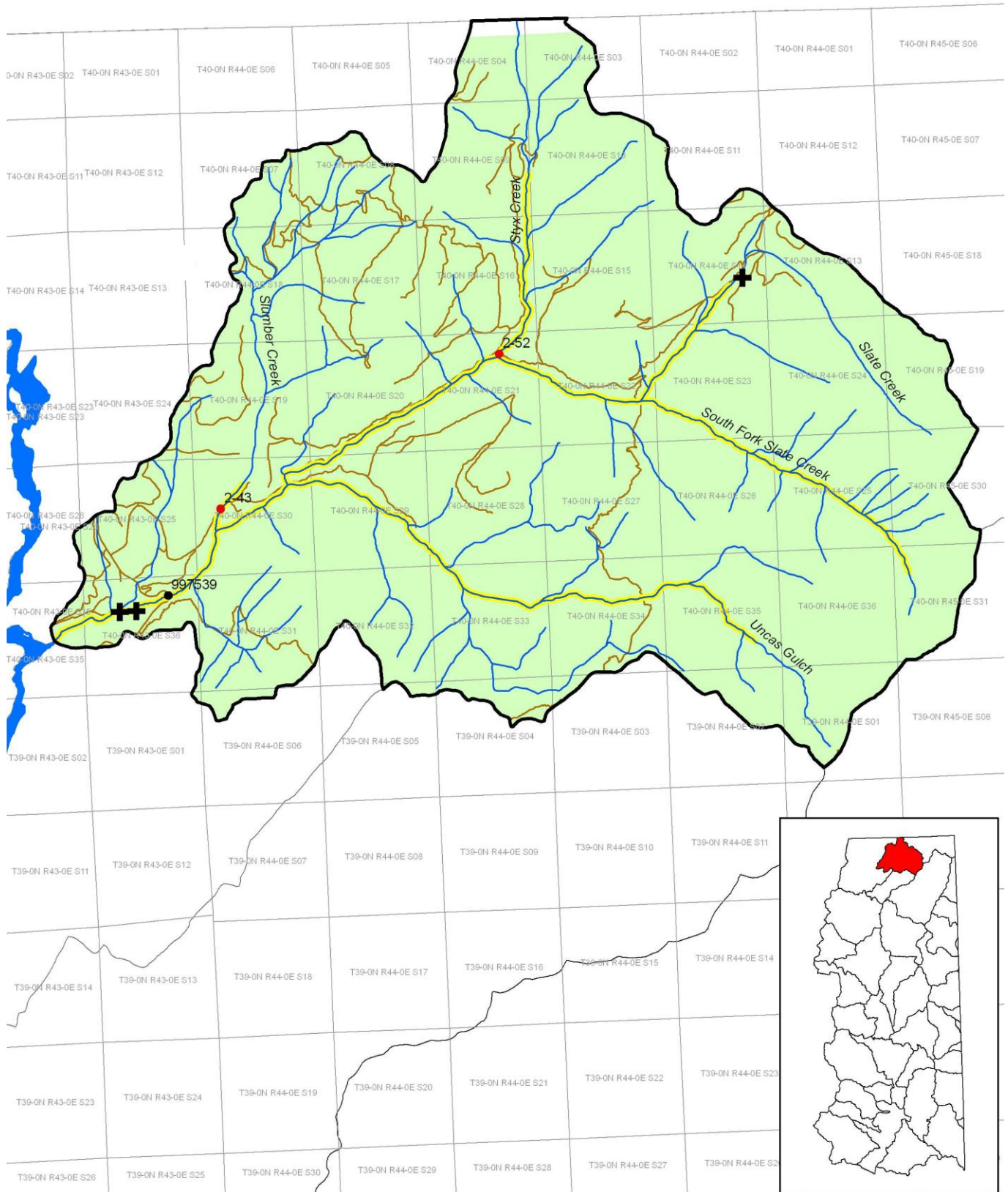
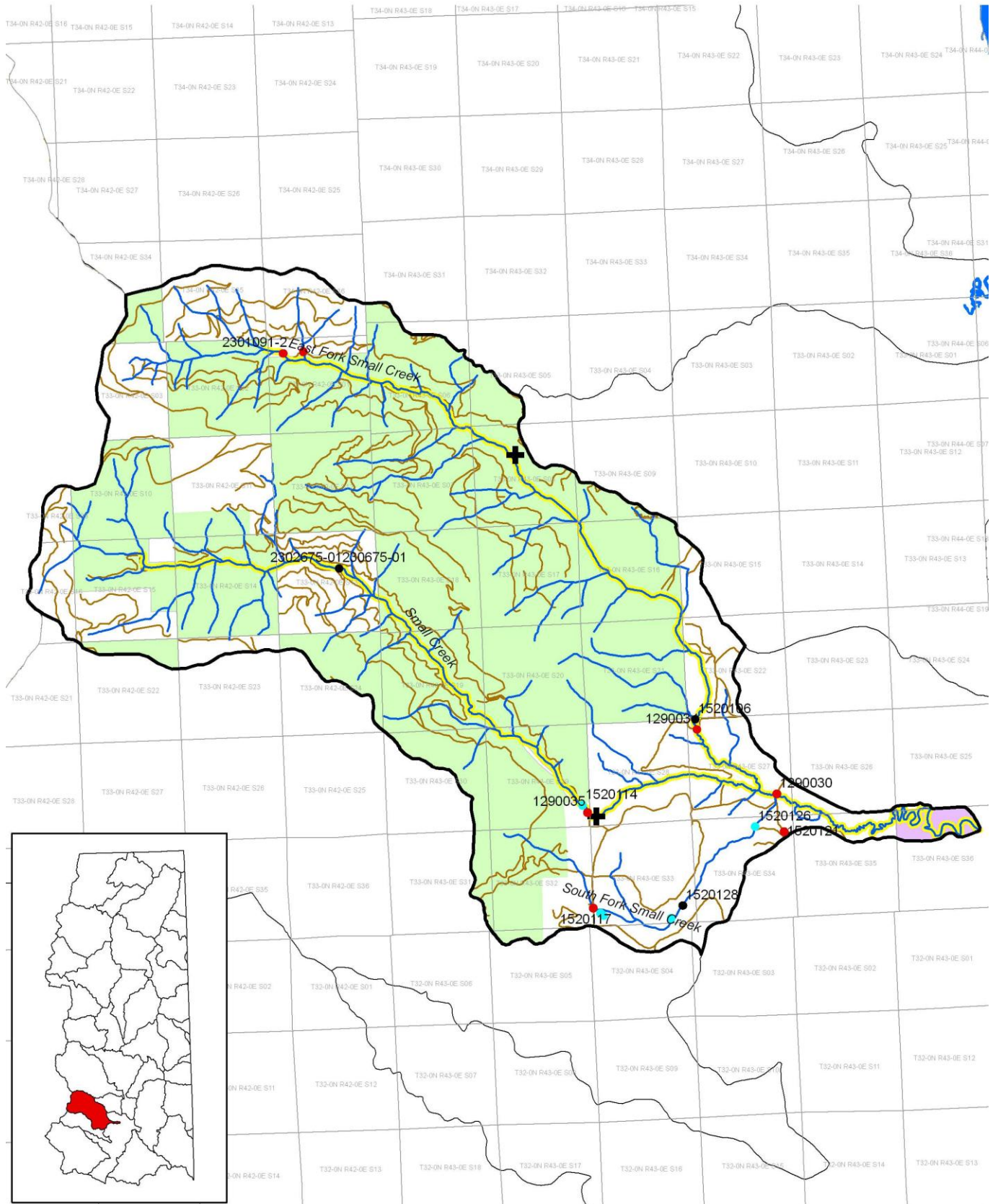


Figure 32

# Smalle



# Sullivan

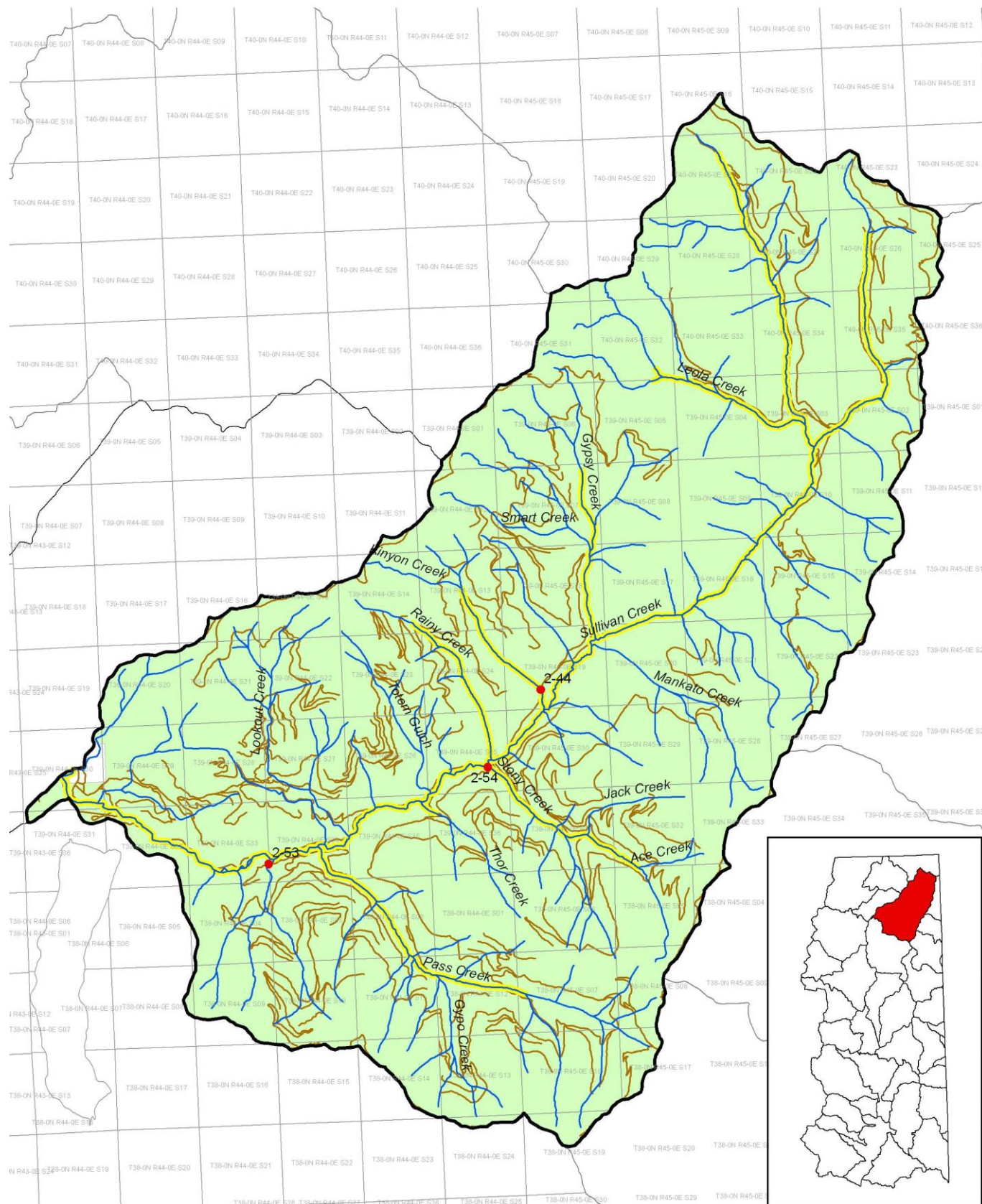
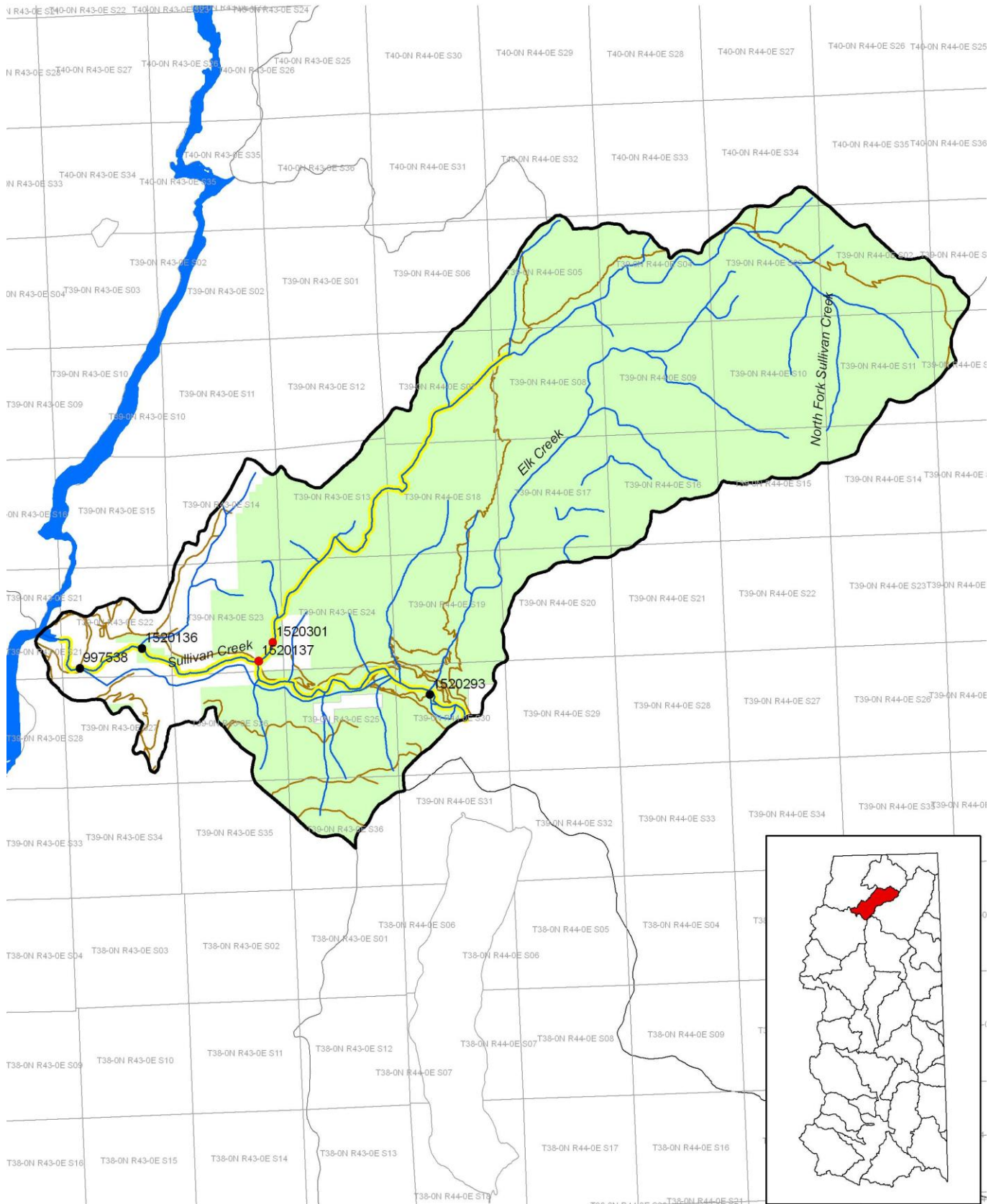
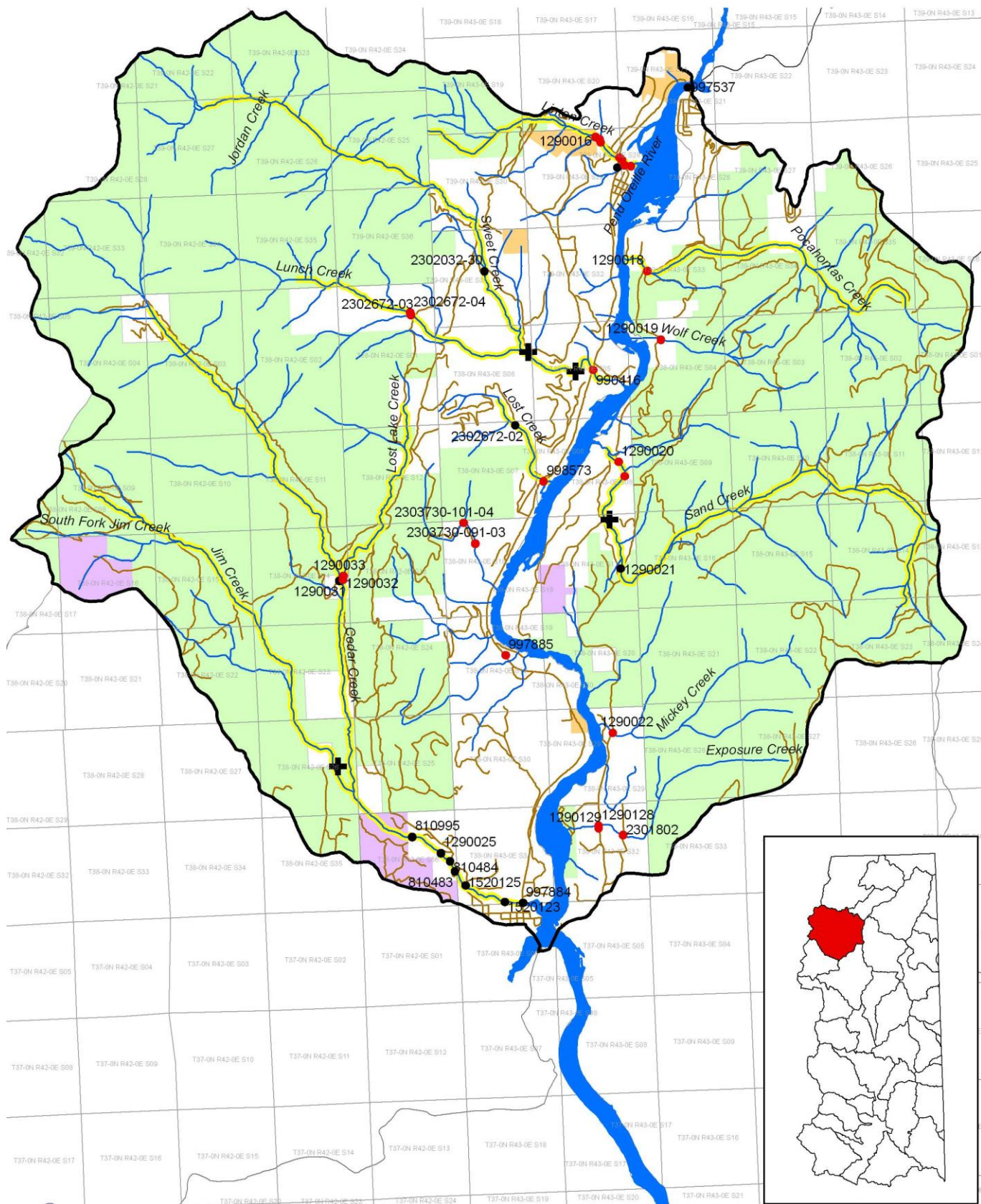


Figure 34

# Sullivan, North Fork

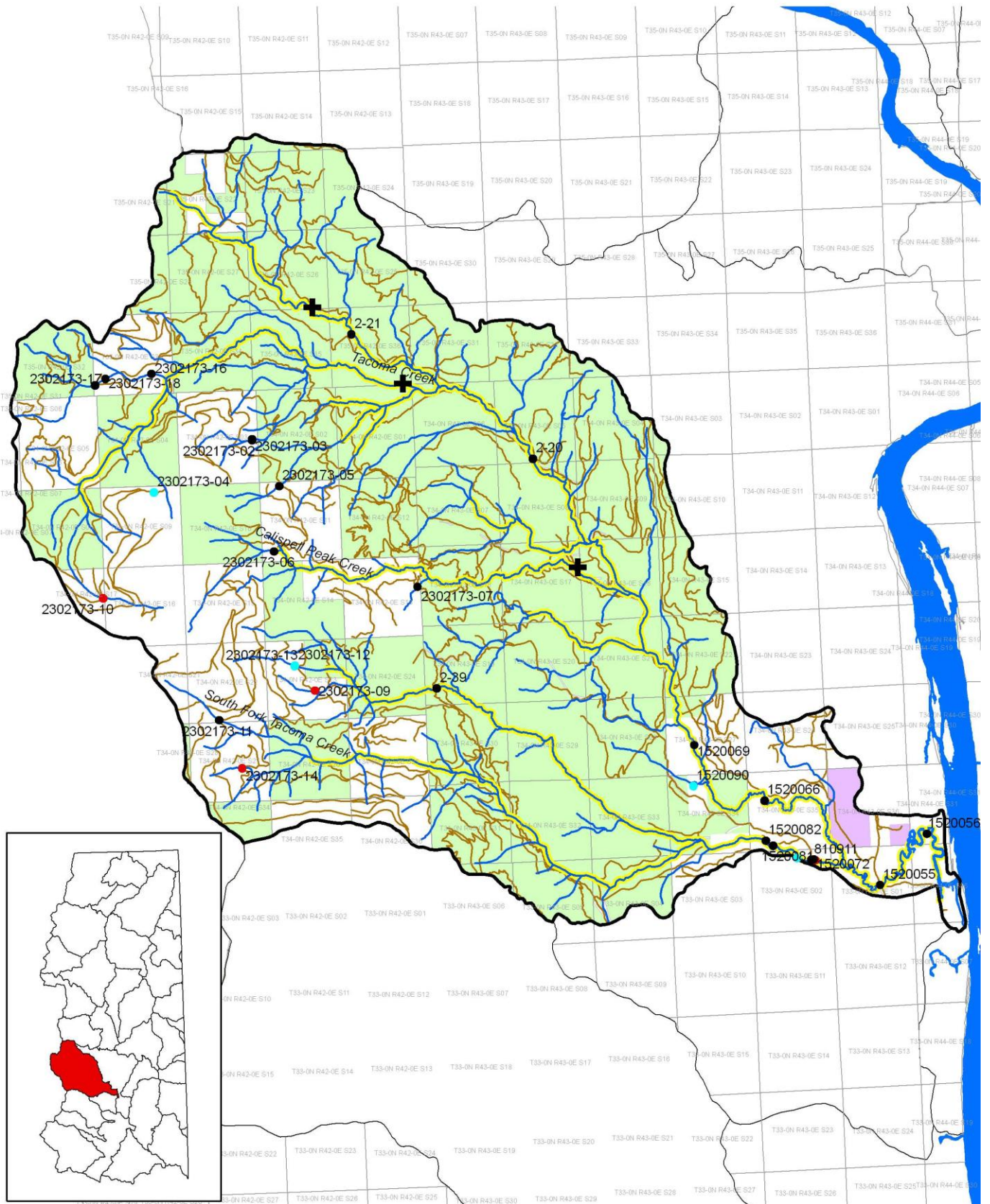


# Sweet-Cedar

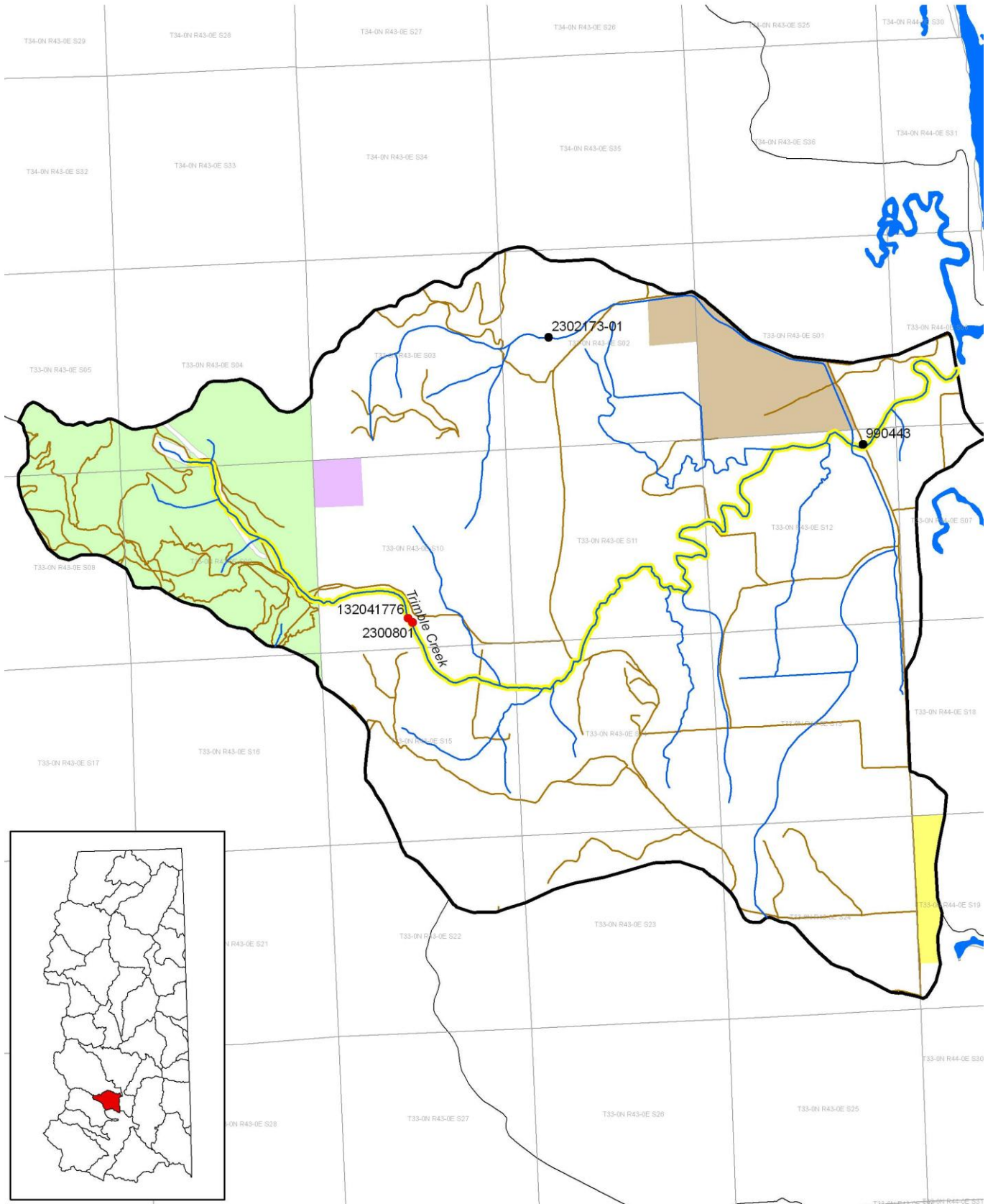




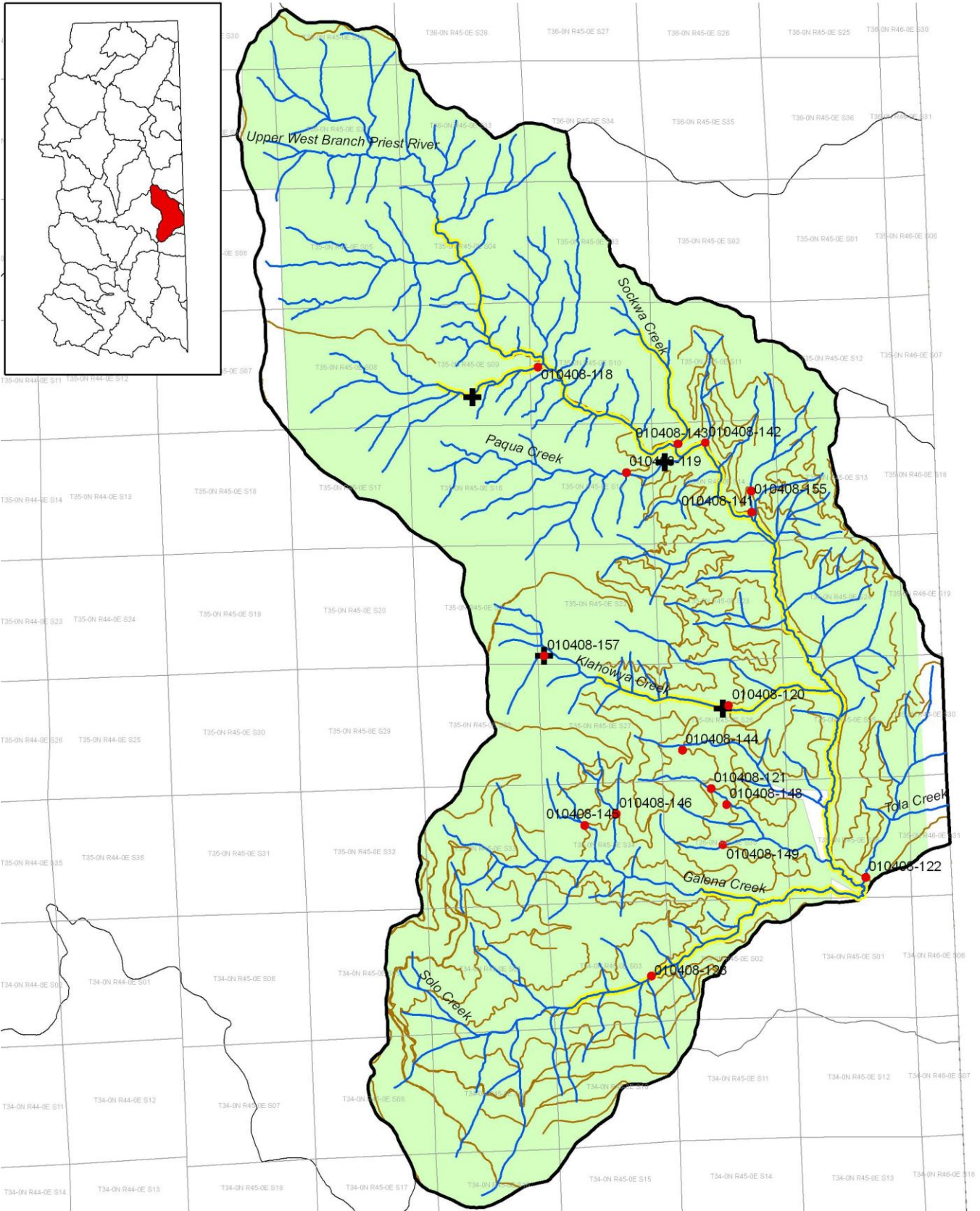
# Tacoma



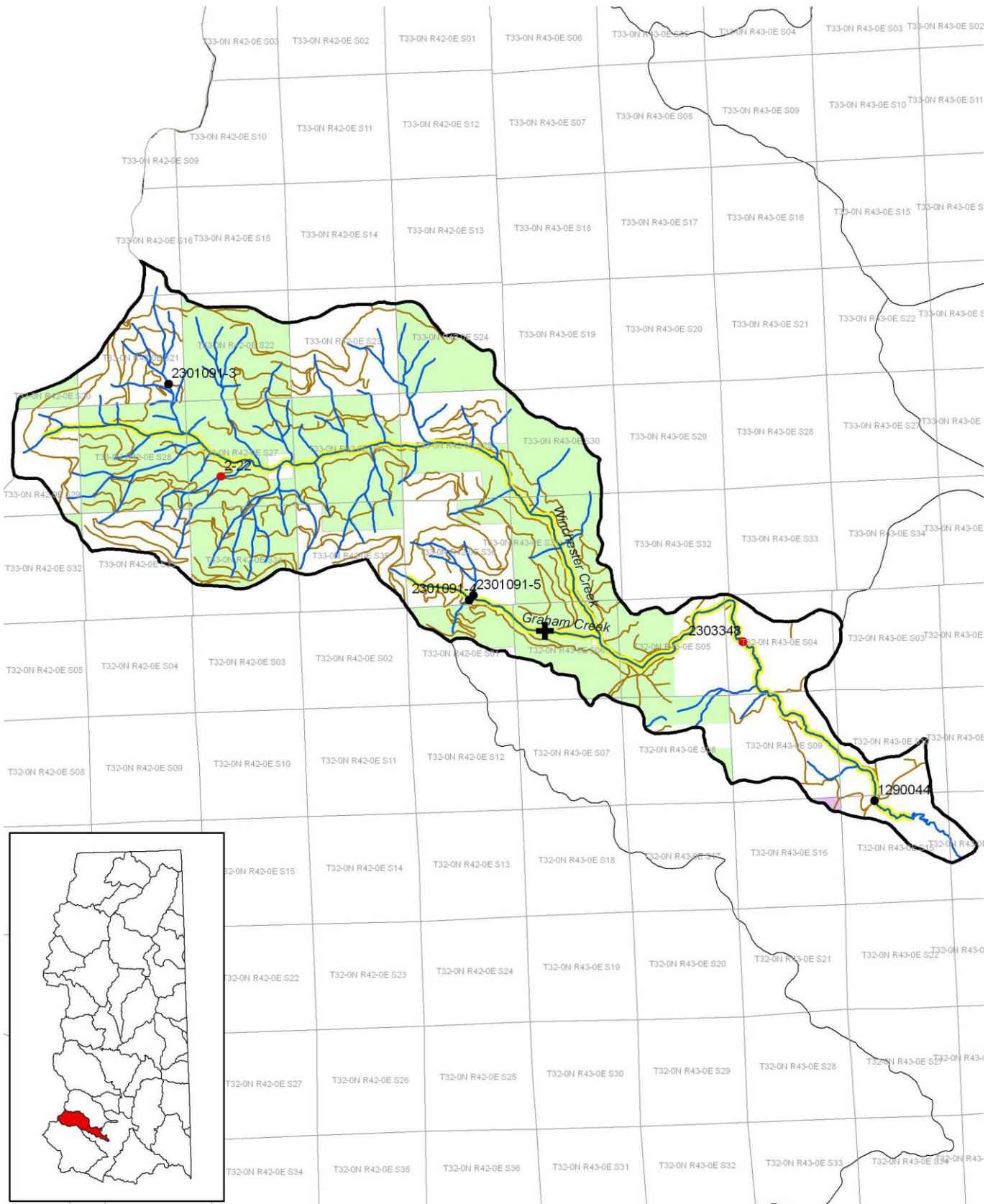
# Trimble



# Upper West Branch Priest



# Winchester



# Yokum-Pend Oreille

