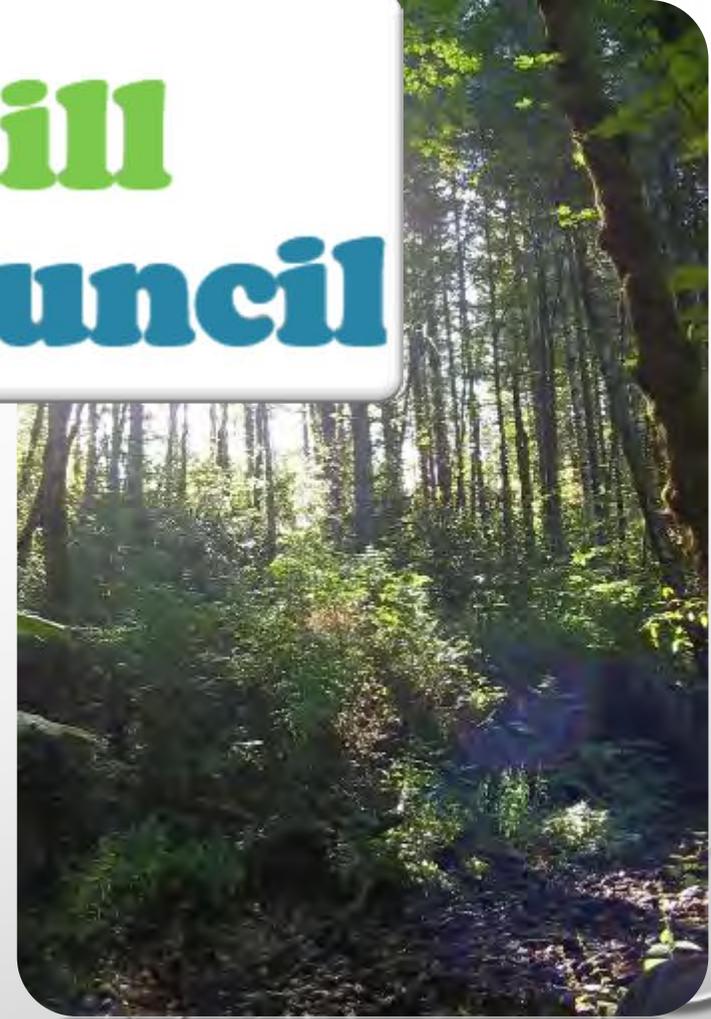




Greater Yamhill Watershed Council



OUR LOCAL WATERSHEDS YAMHILL RIVER & CHEHALEM CREEK

GREATER YAMHILL WATERSHED COUNCIL

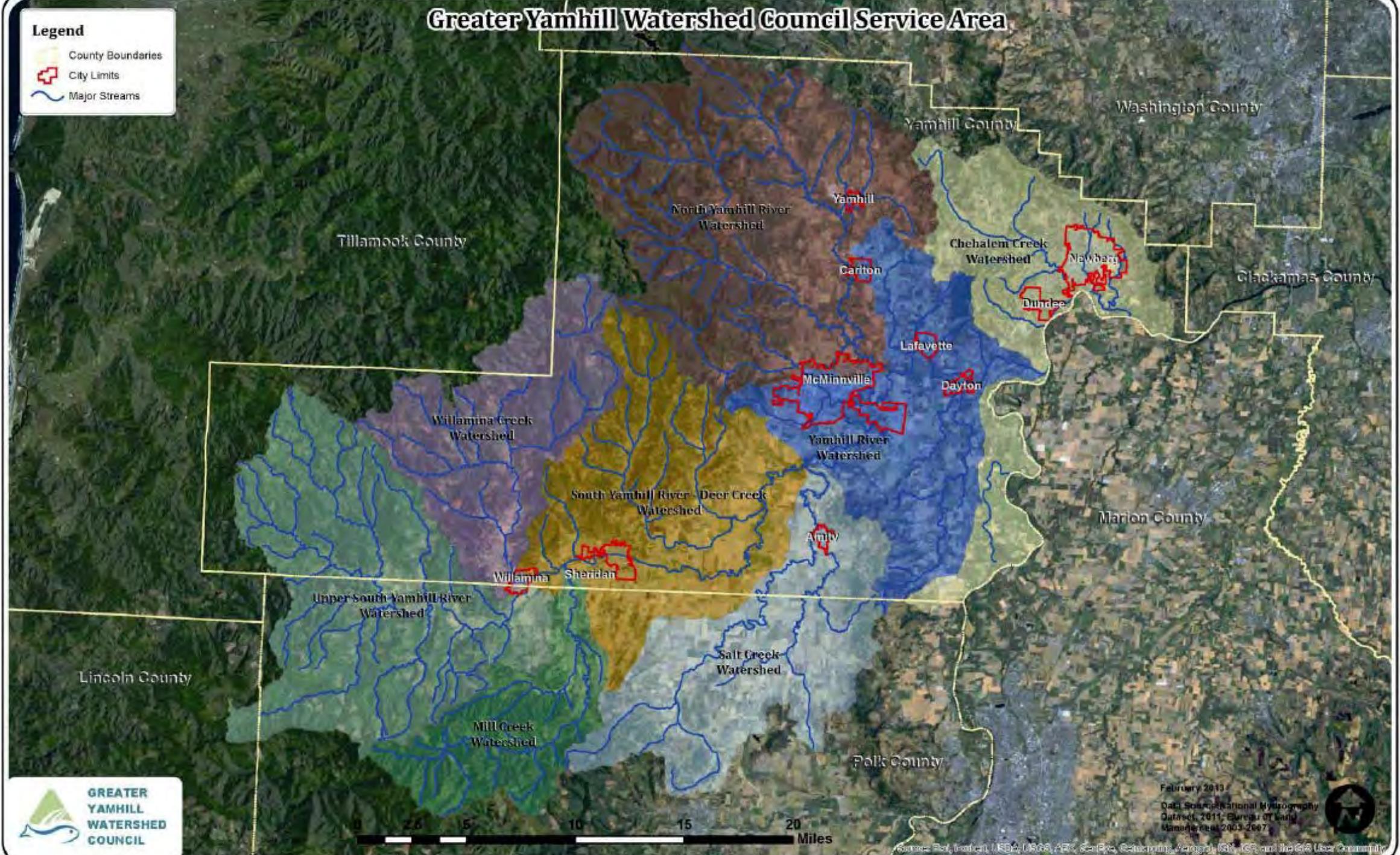
LUKE WESTPHAL, EXECUTIVE DIRECTOR

DECEMBER 2018

Greater Yamhill Watershed Council Service Area

Legend

- County Boundaries
- City Limits
- Major Streams



February 2013

Data Source: National Hydrography Dataset, 2011; Bureau of Land Management, 2003-2007

Source: Esri, DigitalGlobe, GeoEye, IGN, GeoEye, CNR, IGN, and the GIS User Community

STREAMS AND RIVERS

- YAMHILL RIVER IS THE LARGEST WEST-SIDE TRIBUTARY TO WILLAMETTE
- 360+ MILES OF SALMONID BEARING STREAMS & RIVERS (TROUT & SALMON)
- MORE THAN HALF OF STREAM MILES ARE LISTED AS POLLUTED AND MOST STREAMS LACK SUFFICIENTLY FORESTED BUFFERS FOR WATER QUALITY & / OR WATERSHED FUNCTION
- PRIMARY POLLUTANTS INCLUDE TEMPERATURE, DISSOLVED OXYGEN, BACTERIA, NUTRIENTS, HEAVY METALS, AND PESTICIDES



FISH POPULATIONS & HABITAT

- SUPPORTS UP TO ~38% - 48% OF ALL NATURALIZED COHO SALMON UPSTREAM OF WILLAMETTE FALLS
- SUPPORTS UP TO ~5 - 10% OF ALL THREATENED WINTER STEELHEAD TROUT UPSTREAM OF WILLAMETTE FALLS. DEPENDENT ON CASCADE POPULATIONS
- SUPPORTS UP TO ~ 5 - 15% OF ALL PACIFIC LAMPREY UPSTREAM OF WILLAMETTE FALLS
- PROVIDES SOME REARING HABITAT FOR THREATENED SPRING CHINOOK SALMON IN LOWER REACHES OF MAIN RIVERS. DEPENDENT ON CASCADE POPULATIONS
- MOST YAMHILL BASIN STREAMS SUPPORT RESIDENT COASTAL CUTTHROAT TROUT POPULATIONS. NO SEA-RUN CUTS ACCORDING TO ODFW.
- ODFW RECENTLY FOUND OREGON CHUB POPULATIONS IN SALT CREEK SUB-BASIN IN 2017



NATURALIZED COHO SALMON
UPPER NORTH YAMHILL



NATURALIZED COHO SALMON
UPPER NORTH YAMHILL



THREATENED WINTER STEELHEAD
UPPER SOUTH YAMHILL

Figure 8. Agency Creek Winter Steelhead.



PACIFIC LAMPREY



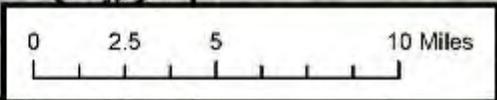
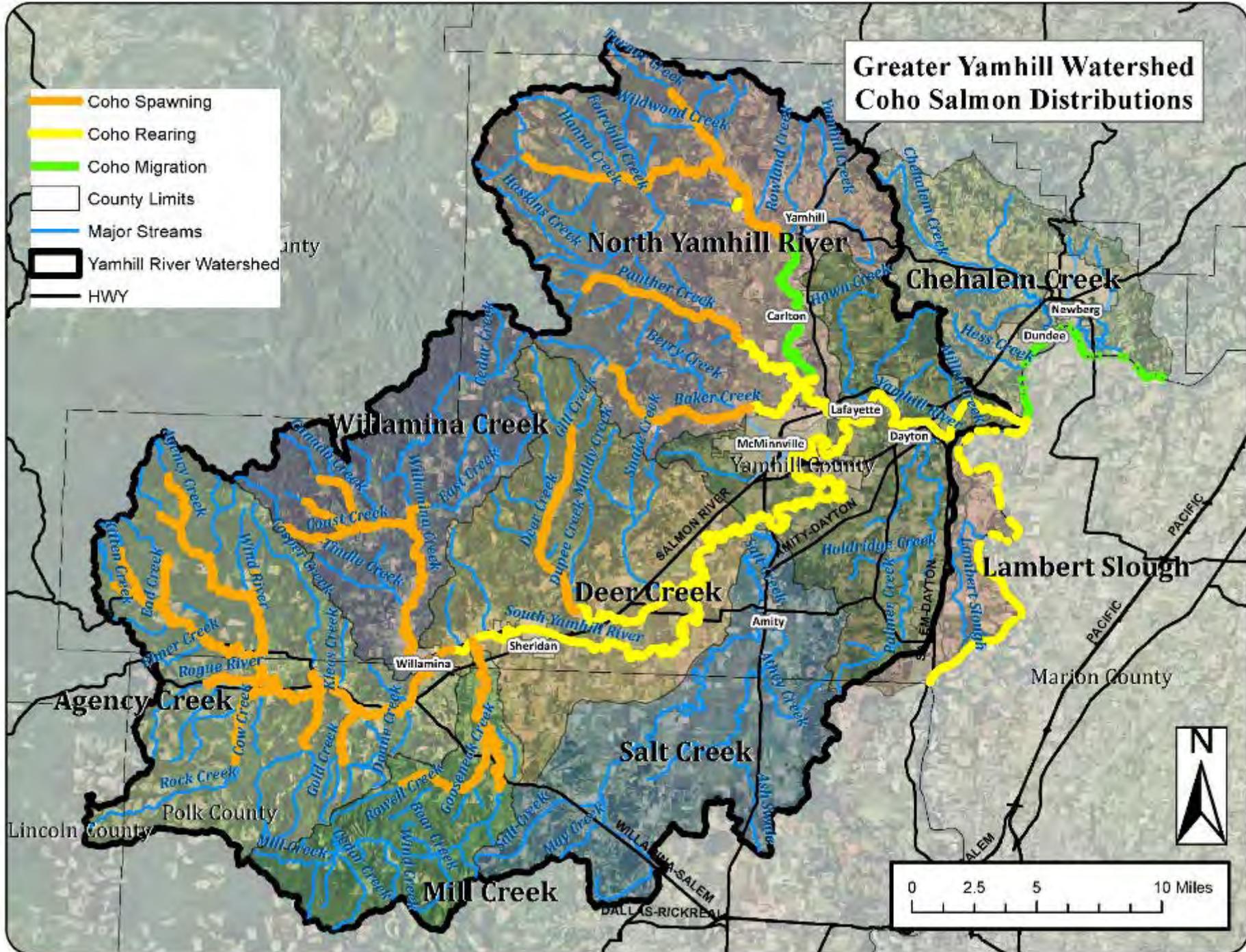
Photos courtesy wildfishconservancy.org



OREGON CHUB

Greater Yamhill Watershed Coho Salmon Distributions

-  Coho Spawning
-  Coho Rearing
-  Coho Migration
-  County Limits
-  Major Streams
-  Yamhill River Watershed
-  HWY

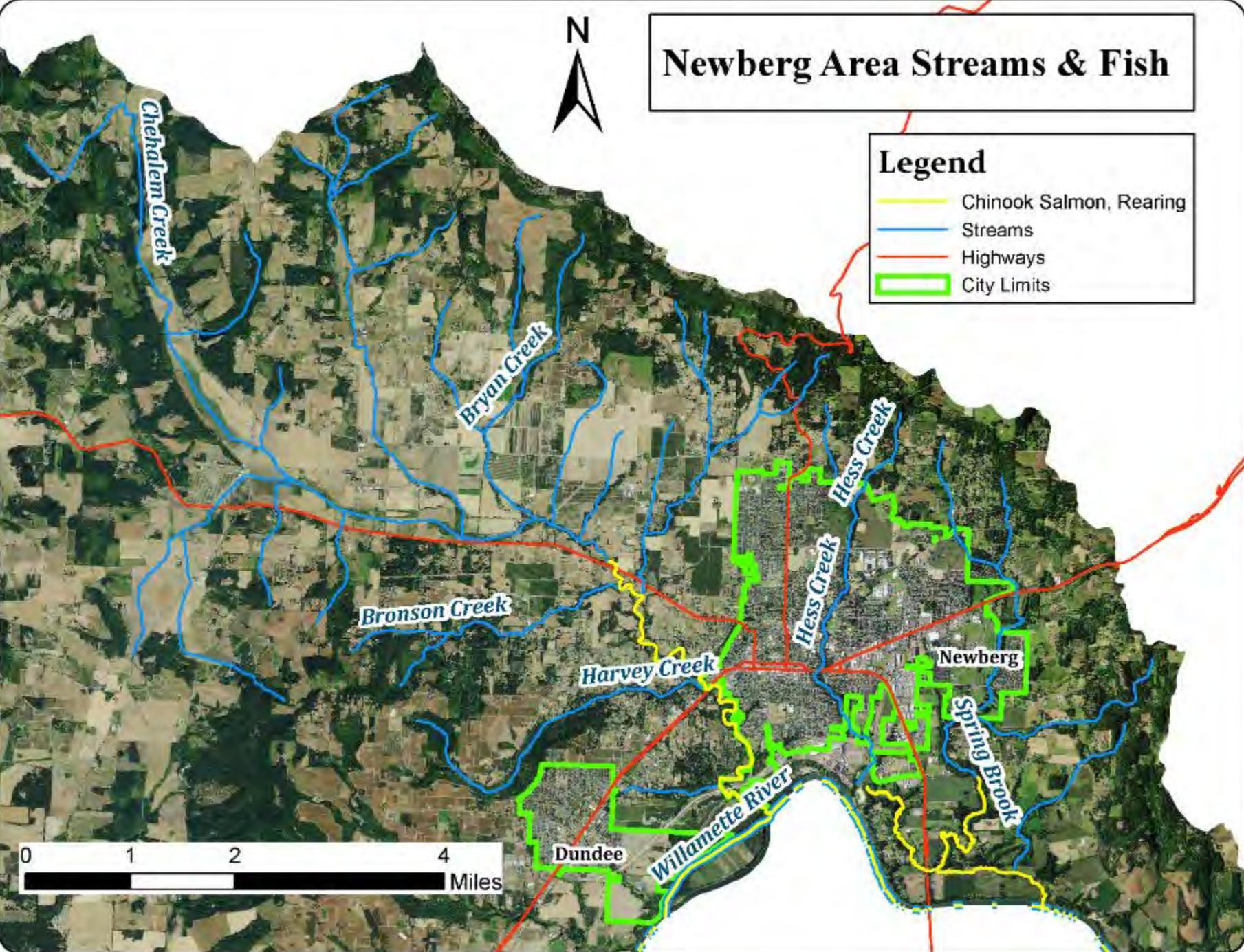


Newberg Area Streams & Fish



Legend

- Chinook Salmon, Rearing
- Streams
- Highways
- City Limits



0 1 2 4 Miles

GYWC SPAWNING SURVEYS

- (FEB – MAY) WINTER STEELHEAD
- (OCT – DEC) COHO SALMON

PENDING SNORKEL INVENTORIES

- BLM FUNDING SECURED FOR ~120 STREAM MILES IN YAMHILL BASIN
 - UPPER NORTH YAMHILL
 - UPPER WILLAMINA
 - UPPER SOUTH YAMHILL



YAMHILL BASIN

TMDL'S

APPROVED

CHLOROPHYLL A

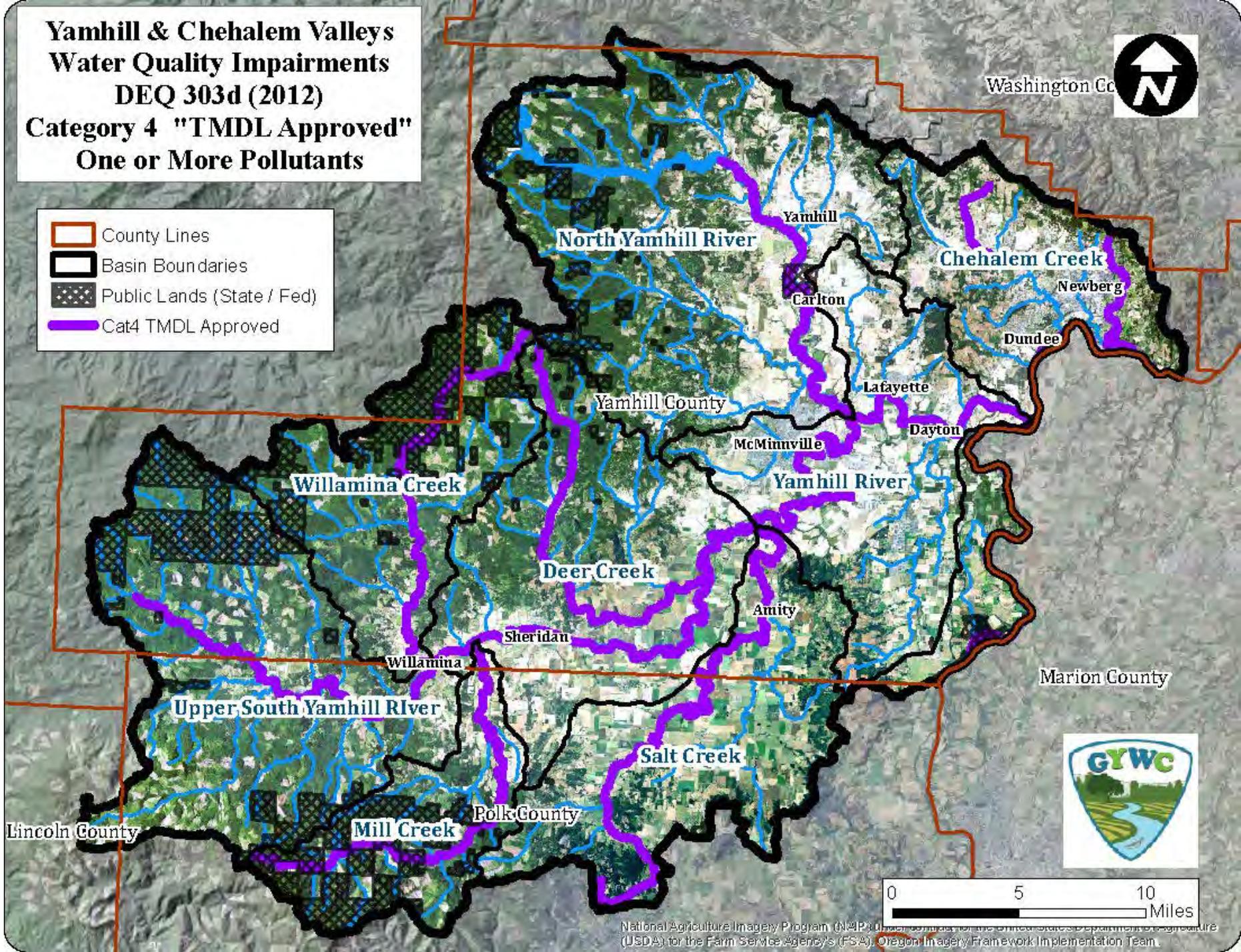
E. COLI

PH

PHOSPHORUS

TEMPERATURE

TURBIDITY



E. COLI TMDL'S NEEDED FOR

BAKER CREEK

COSPER CREEK

COZINE CREEK

DEER CREEK

NORTH YAMHILL RIVER

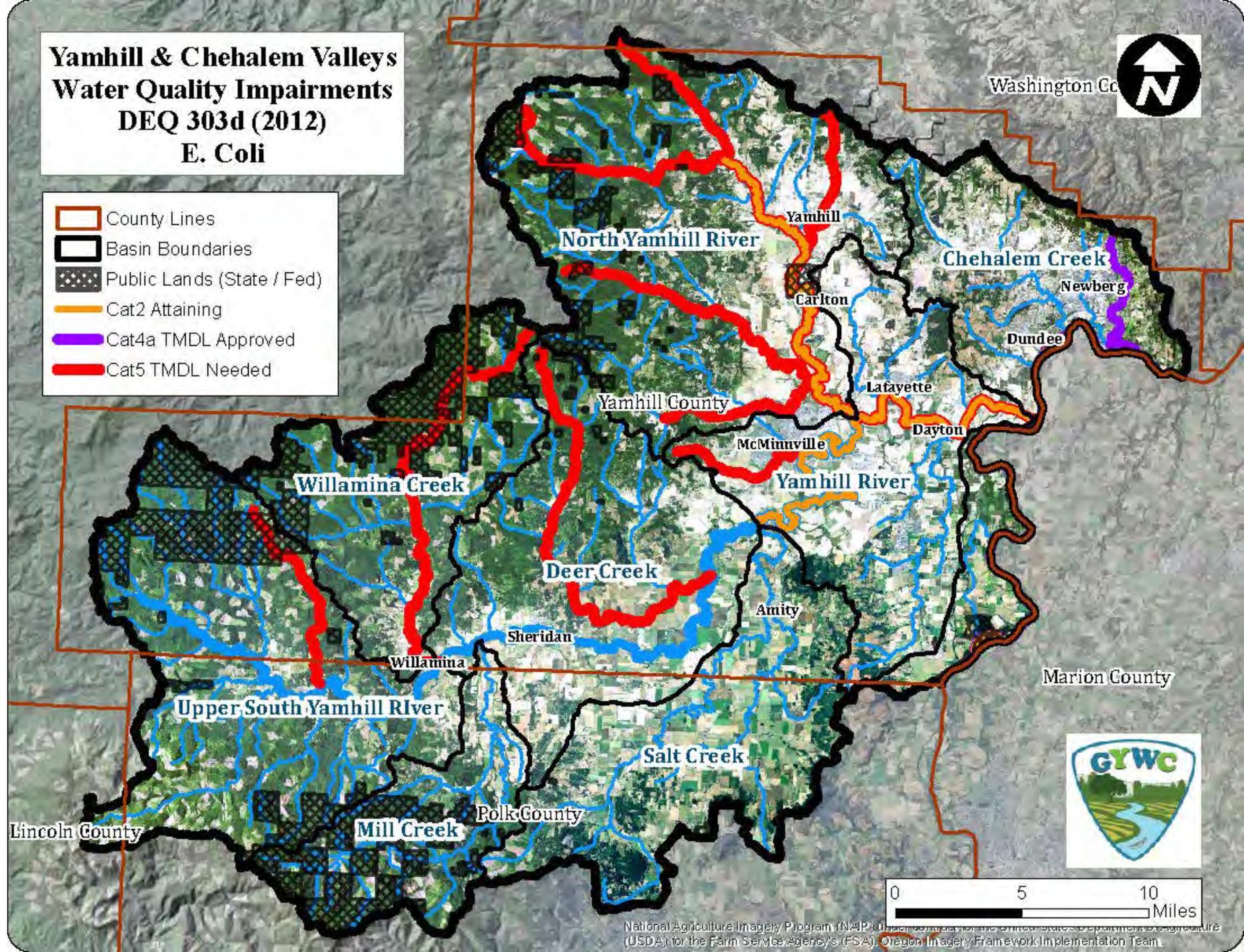
PANTHER CREEK

TURNER CREEK

WILLAMINA CREEK

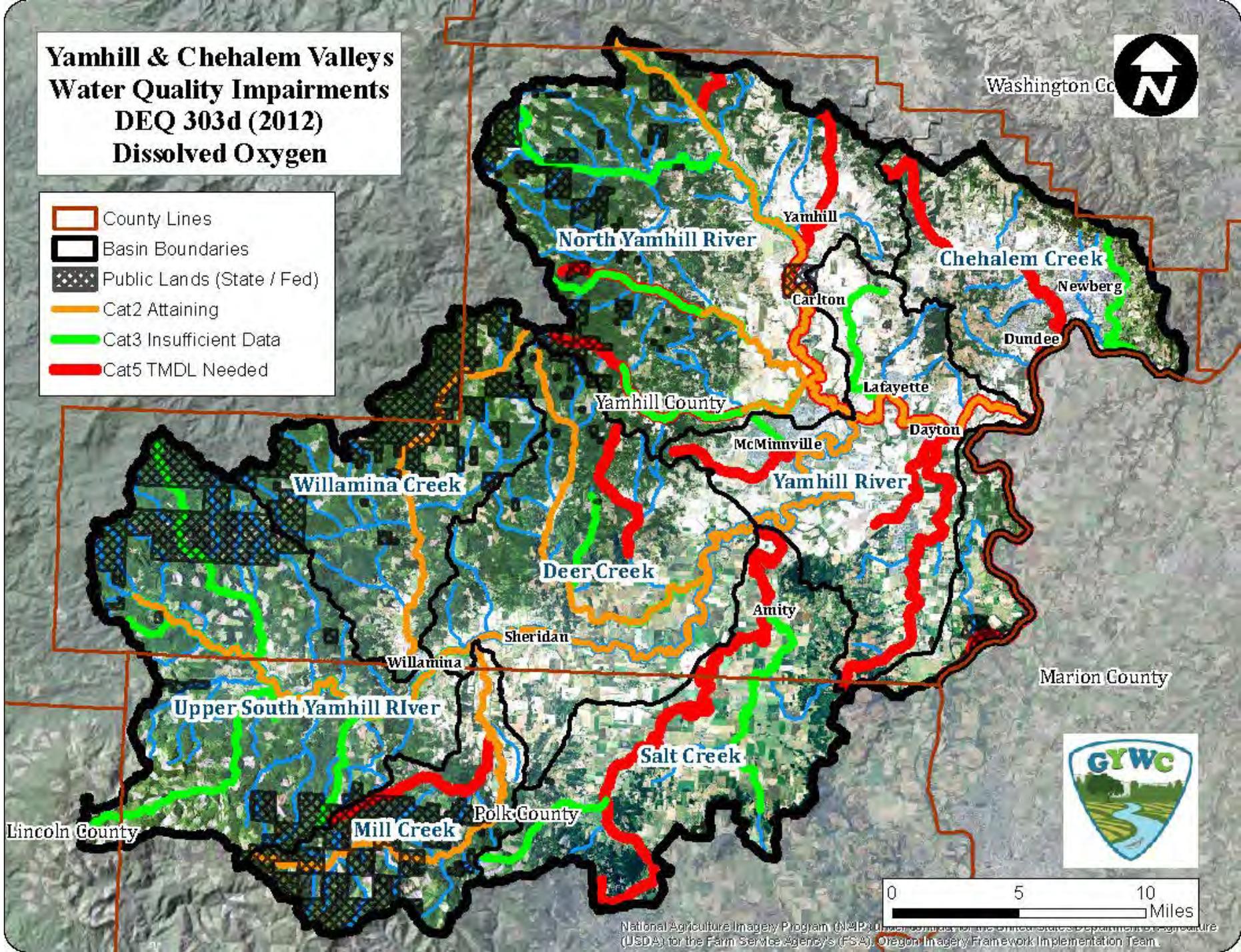
YAMHILL CREEK

YAMHILL RIVER



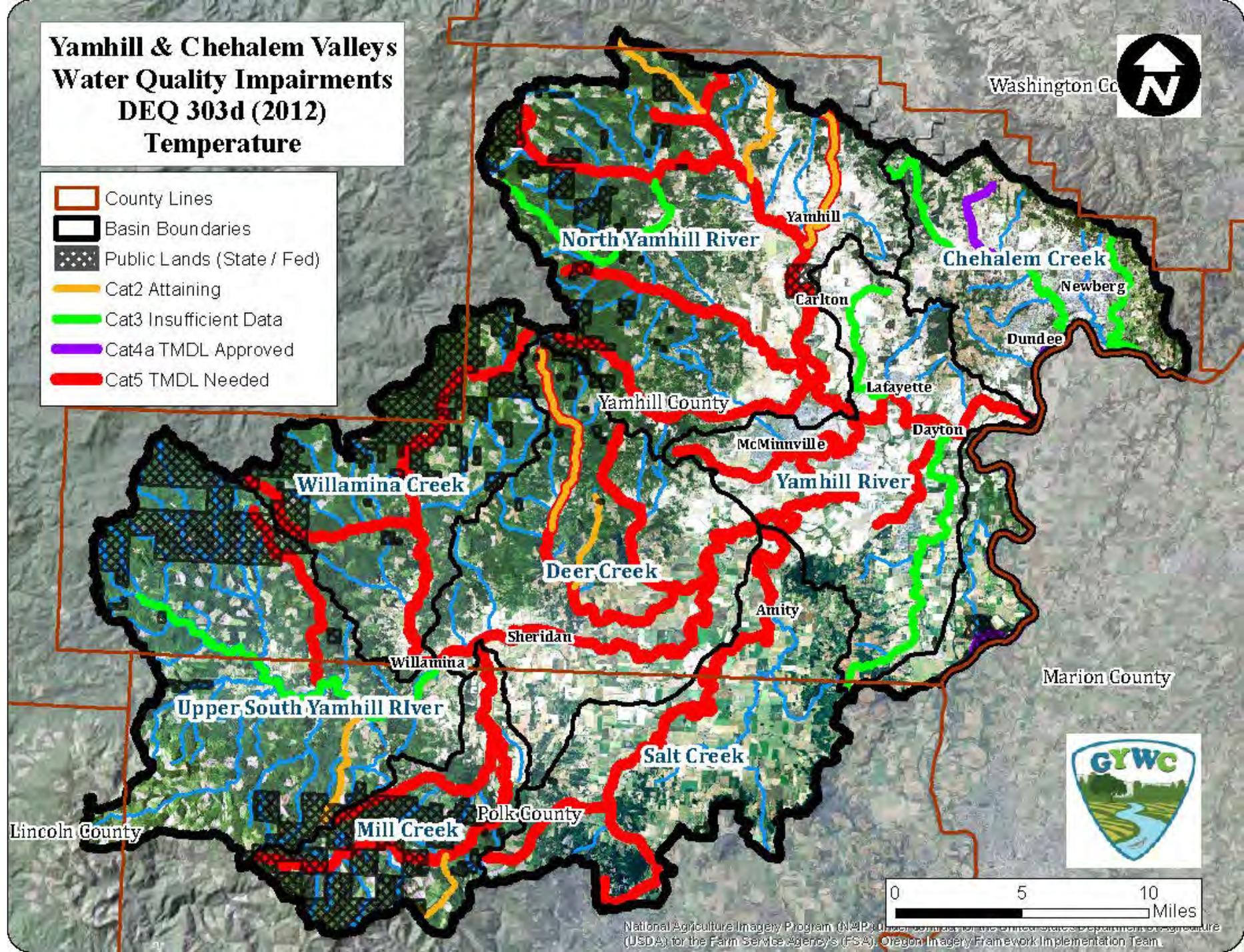
DISSOLVED OXYGEN TMDL'S NEEDED FOR

- BAKER CREEK
- CHEHALEM CREEK
- COZINE CREEK
- GOOSENECK CREEK
- HAY CREEK
- MUDDY CREEK
- NORTH YAMHILL RIVER
- PALMER CREEK
- PANTHER CREEK
- SALT CREEK
- WEST FORK PALMER CREEK
- YAMHILL CREEK
- YAMHILL RIVER



TEMPERATURE TMDL'S NEEDED FOR

Yamhill & Chehalem Valleys Water Quality Impairments DEQ 303d (2012) Temperature



- BAKER CREEK
- COAST CREEK
- COSPER CREEK
- COZINE CREEK
- DEER CREEK
- GOOSENECK CREEK
- HAY CREEK
- MILL CREEK
- MUDDY CREEK
- NORTH YAMHILL RIVER
- PANTHER CREEK
- SALT CREEK
- SOUTH YAMHILL RIVER
- TURNER CREEK
- WEST FORK PALMER CREEK
- WILDWOOD CREEK
- WILLAMINA CREEK
- YAMHILL CREEK
- YAMHILL RIVER

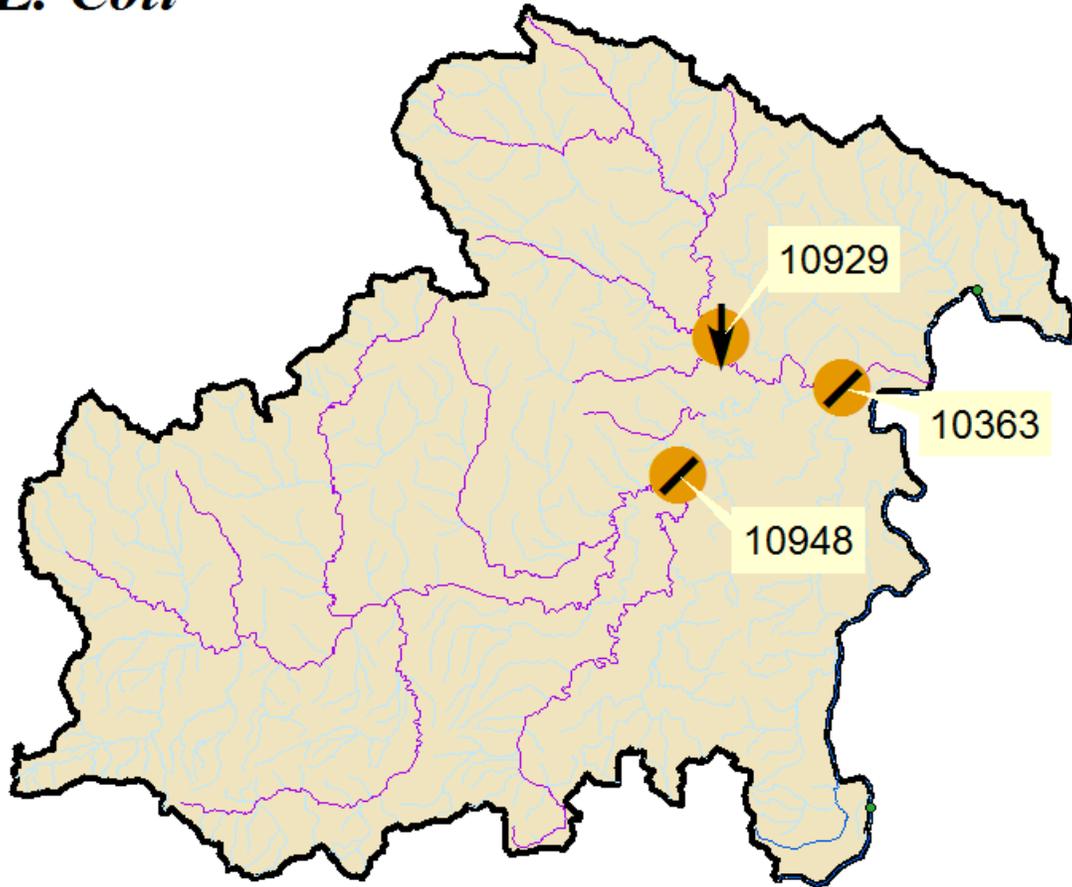
National Agriculture Imagery Program (NAIP) data provided for the Oregon State Department of Agriculture (ODA) for the Farm Service Agency's (FSA) Oregon Imagery Framework Implementation Team.

Yamhill Ag WQ Management Area

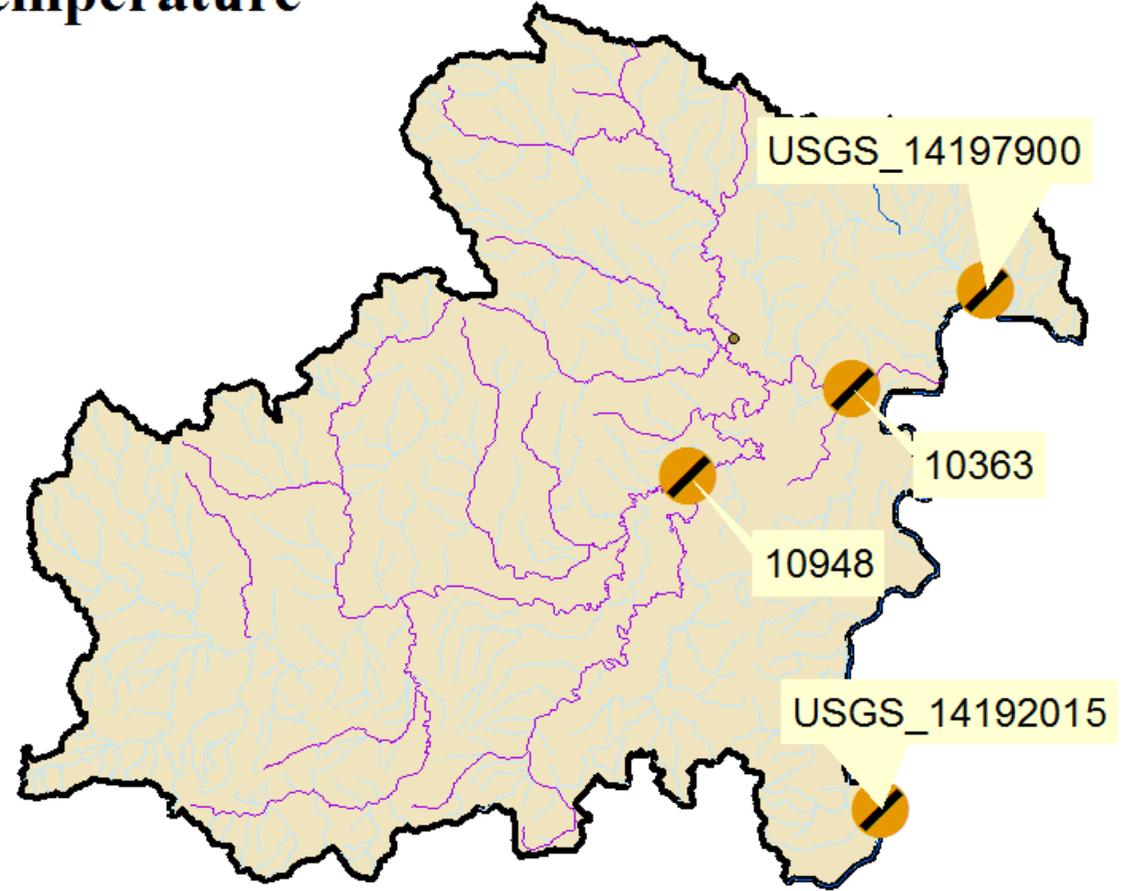
Water Quality Status and Trend

Temperature, E. Coli, pH, and Dissolved Oxygen

E. Coli



Temperature

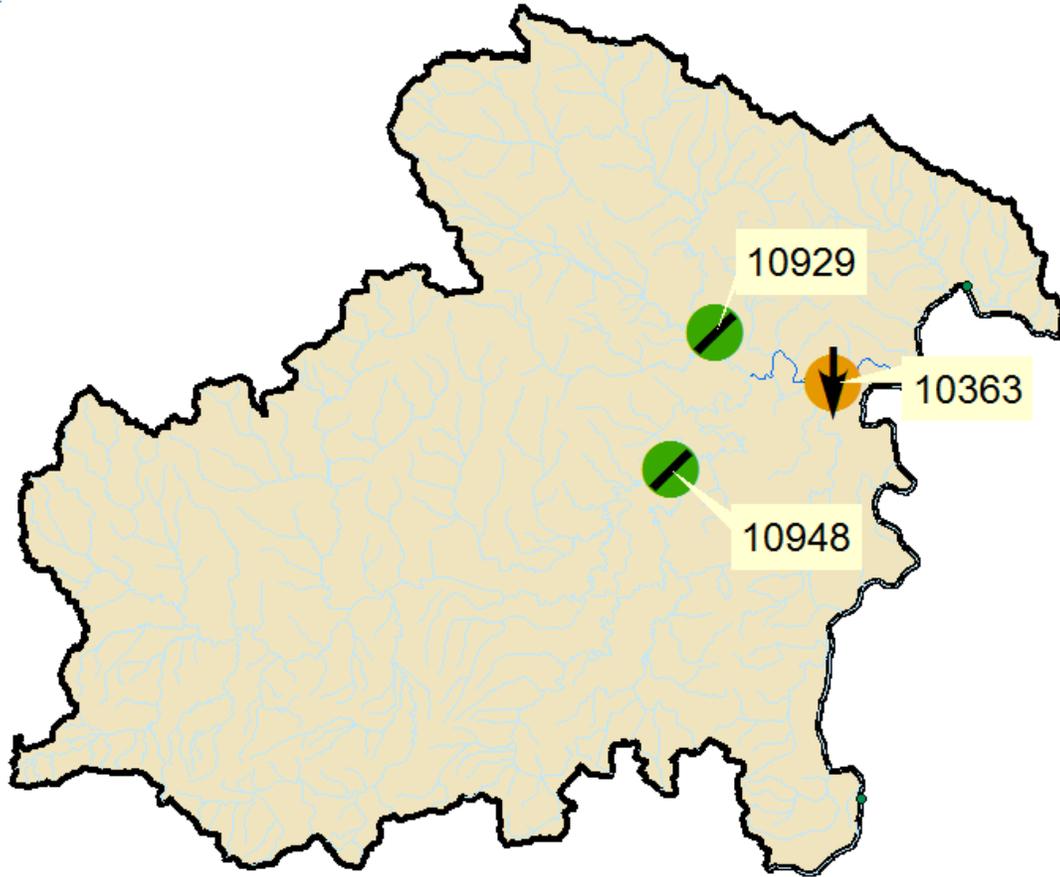


Yamhill Ag WQ Management Area

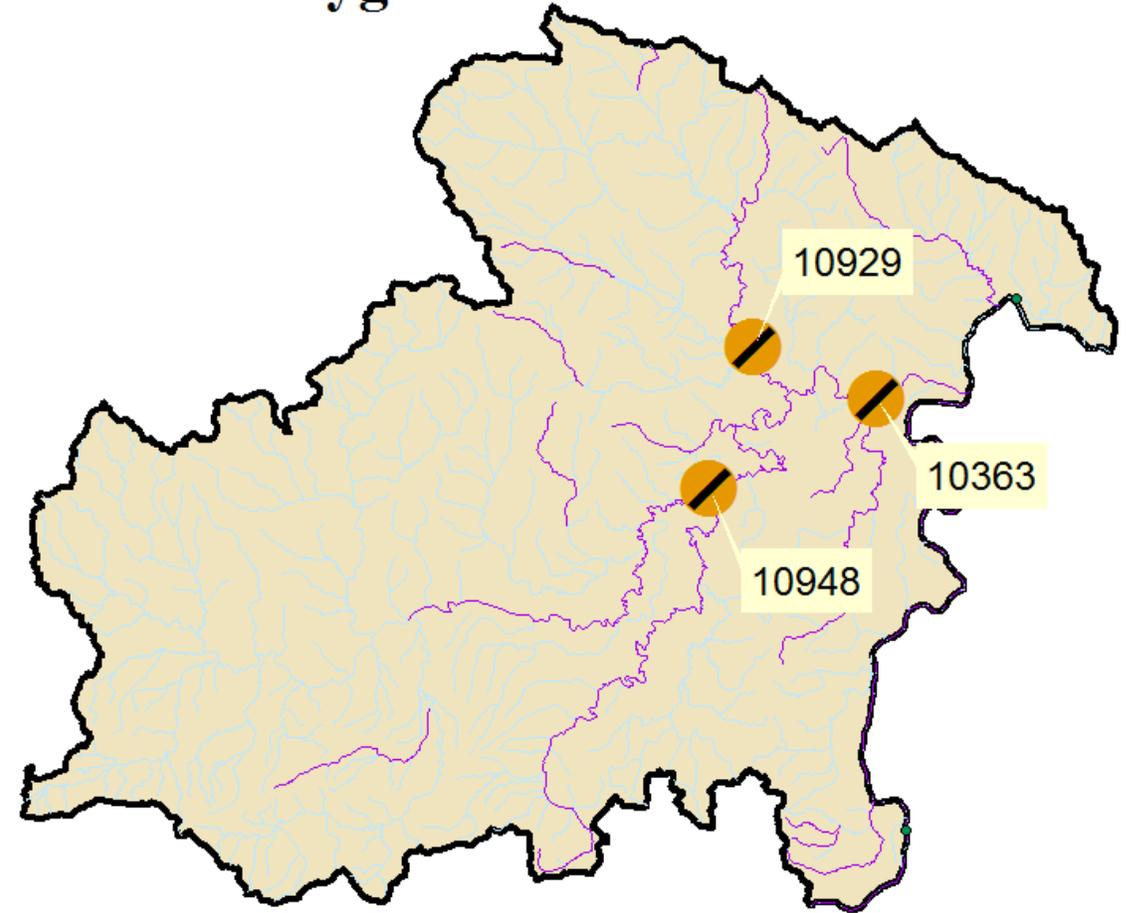
Water Quality Status and Trend

Temperature, E. Coli, pH, and Dissolved Oxygen

pH



Dissolved Oxygen



PESTICIDE MONITORING

10-SITES BASIN WIDE

(2007 – 2009)

COZINE CREEK

FOCUS AREA

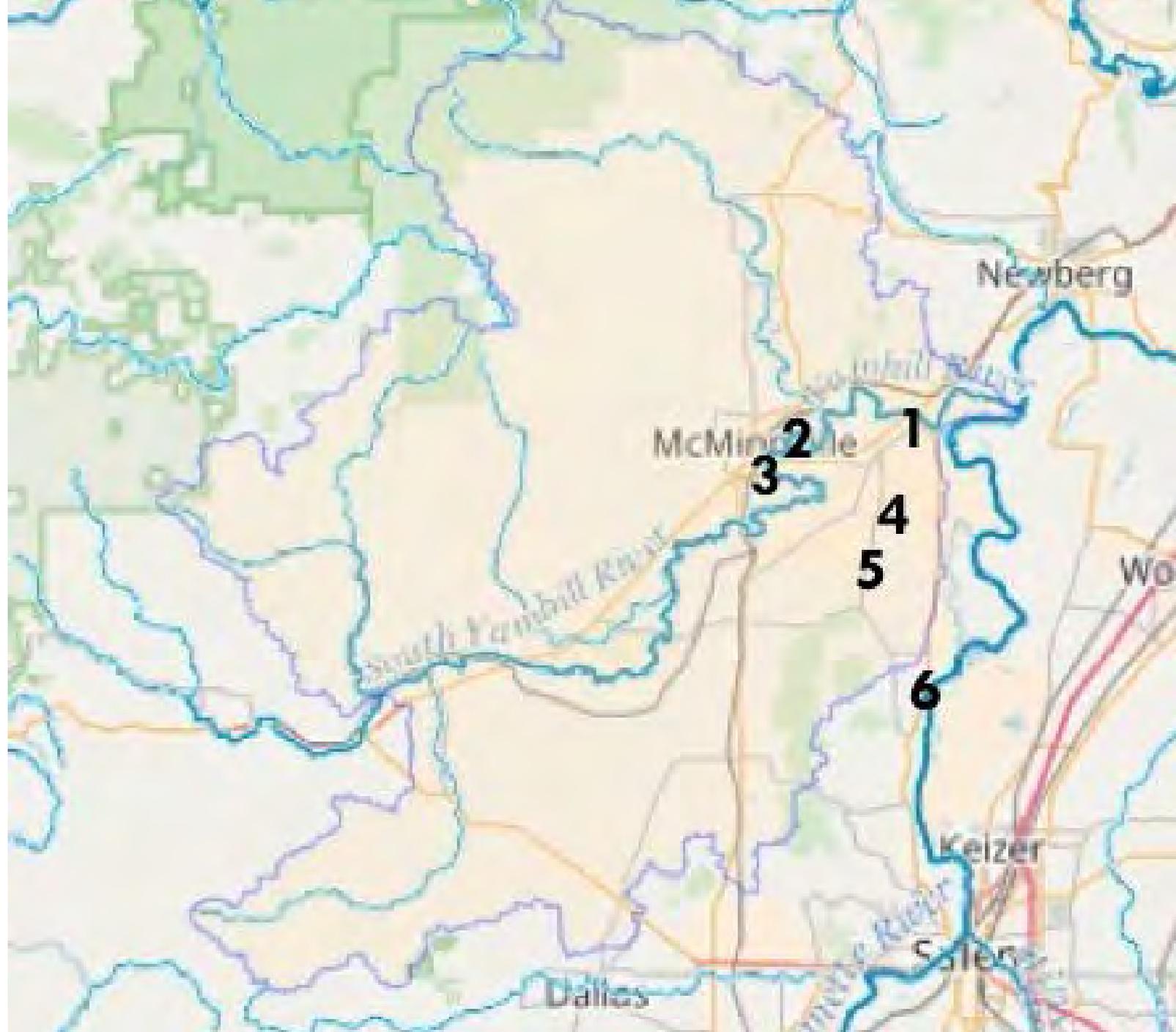
(2010 – PRESENT)

WEST FORK

PALMER CREEK

FOCUS AREA

(2010 – PRESENT)



GYWC TEMPERATURE

MONITORING

30+ SITES

1995 - PRESENT

CURRENT SITES

INCLUDE

COZINE CREEK

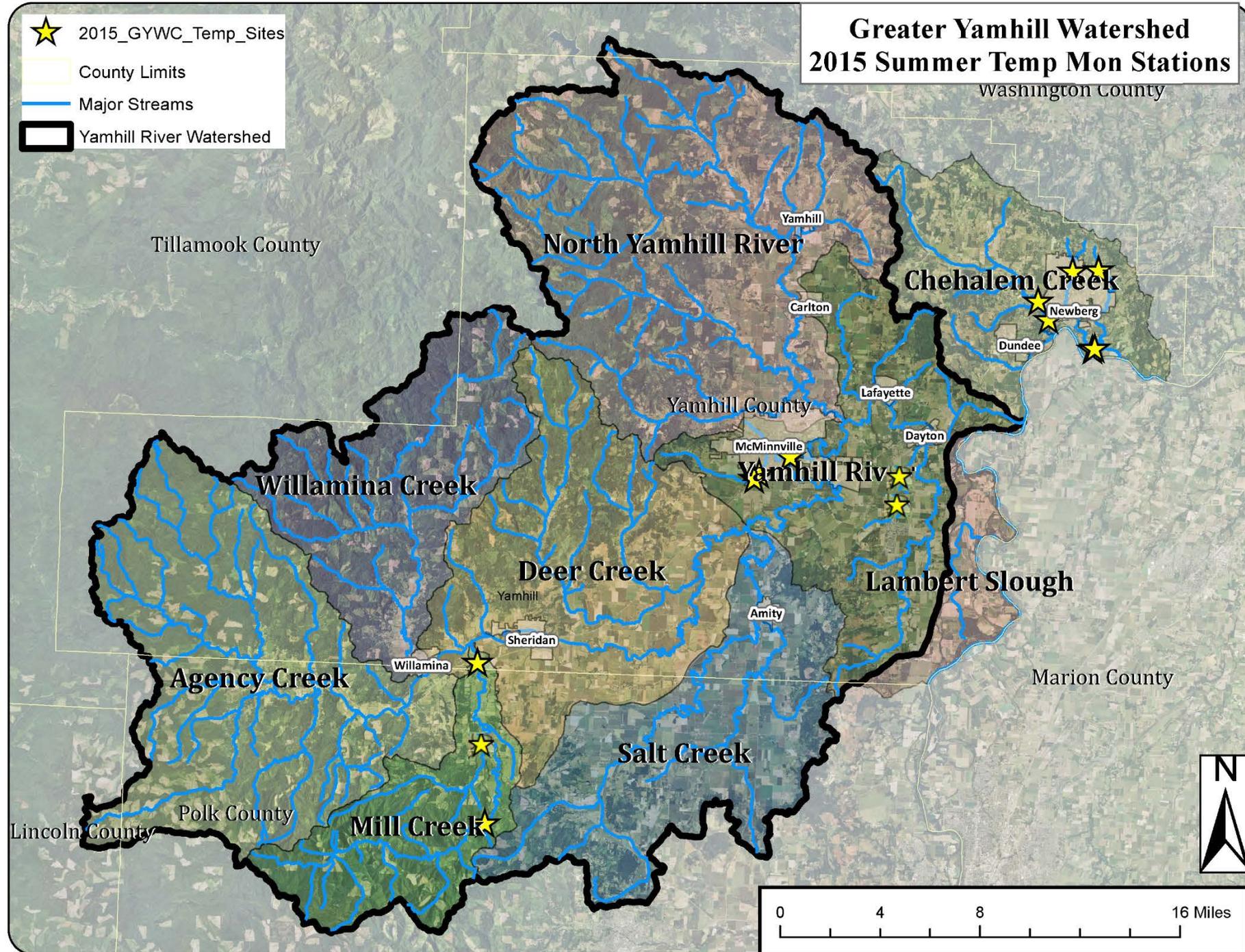
WEST FORK PALMER CREEK

CHEHALEM, HESS, &

SPRINGBROOK CREEKS

MILL CREEK &

GOOSENECK CREEK





QUESTIONS?

WHAT INTERESTS YOU?

**LUKE WESTPHAL
GYWC EXECUTIVE DIRECTOR**

LUKE@GYWC.ORG

503-474-1047

WWW.GYWC.ORG