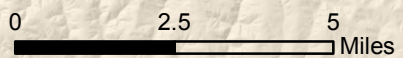
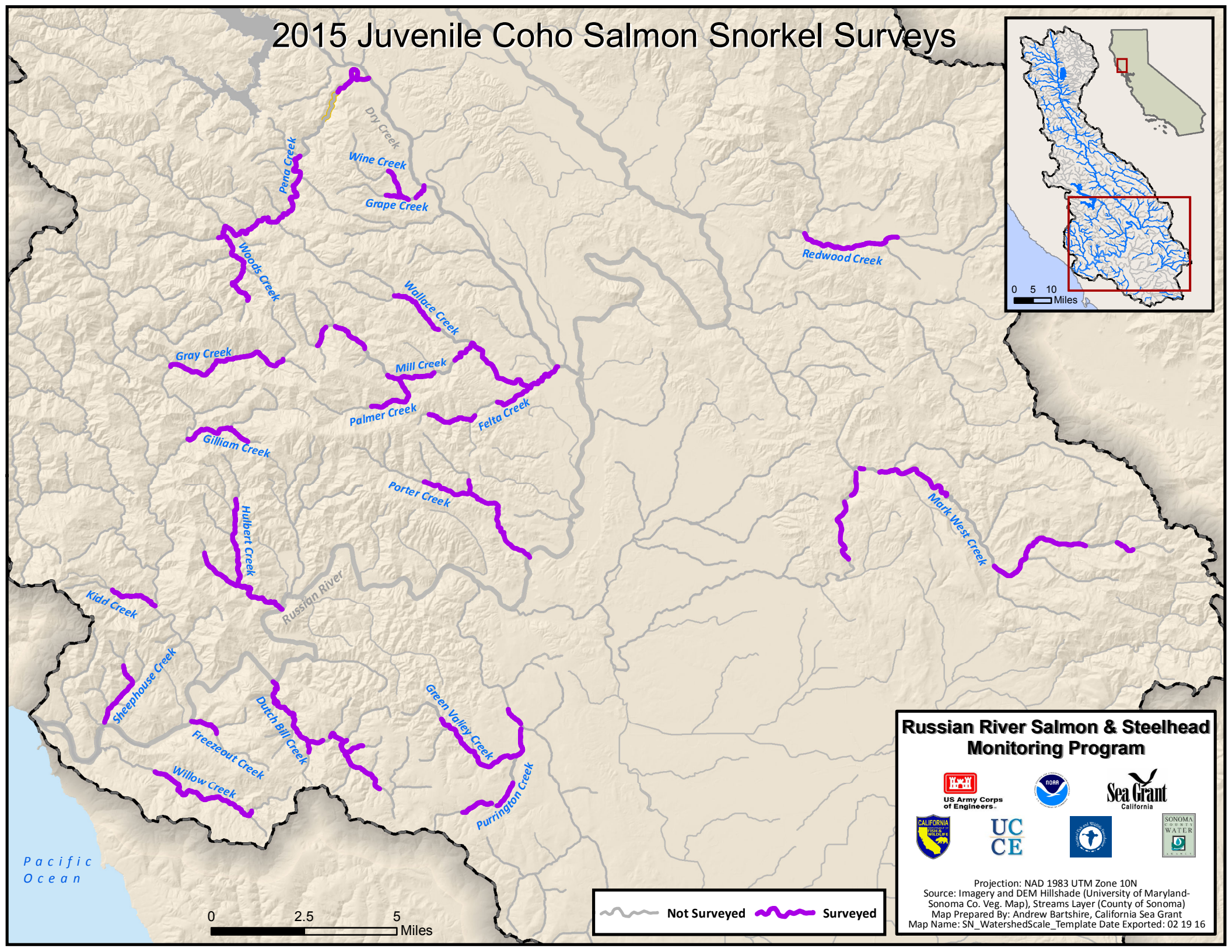
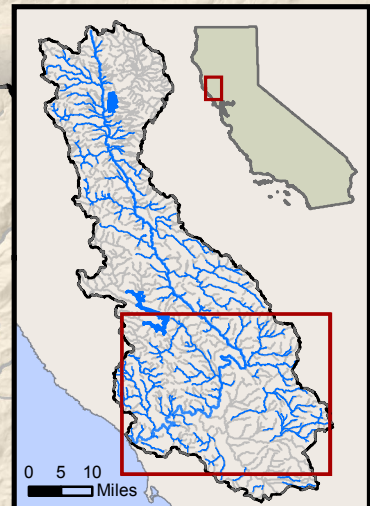


# 2015 Juvenile Coho Salmon Snorkel Surveys



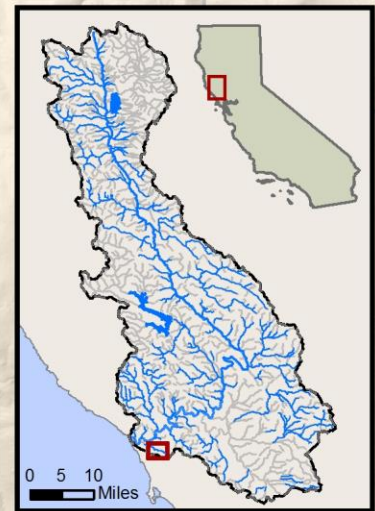
## Russian River Salmon & Steelhead Monitoring Program



Projection: NAD 1983 UTM Zone 10N  
Source: Imagery and DEM Hillshade (University of Maryland-Sonoma Co. Veg. Map), Streams Layer (County of Sonoma)  
Map Prepared By: Andrew Bartshire, California Sea Grant  
Map Name: SN\_WatershedsScale\_Template Date Exported: 02 19 16



# Wetted Habitat Survey Willow Creek









0 0.25 0.5 Miles

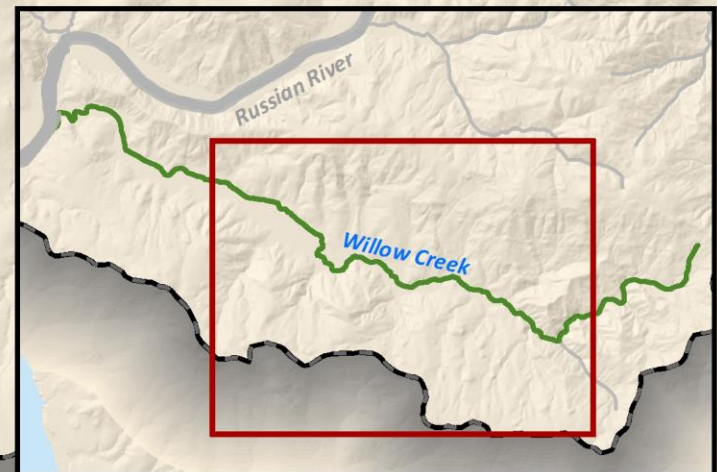
## Russian River Salmon & Steelhead Monitoring Program



Projection: NAD 1983 UTM Zone 10N  
 Source: Imagery and DEM Hillshade (University of Maryland-Sonoma Co. Veg. Map), Streams Layer (County of Sonoma)  
 Map Prepared By: Andrew Bartshire, California Sea Grant  
 Map Name: 2015\_WettedHabitat\_Template\_v2 Date Exported: 02 09 16

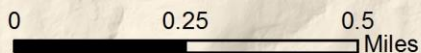
### 2015 Late Summer Wetted Habitat Condition Survey Conducted September 17, 2015

- |  |  |
|--|--|
|  Dry Reach    |  Dry Riffle   |
|  Wet Reach    |  Wet Pool     |
|  Intermittent |  Not Surveyed |





# Salmonid Redds & Wetted Habitat Willow Creek



## 2015 Late Summer Wetted Habitat Condition

Survey Conducted September 17, 2015

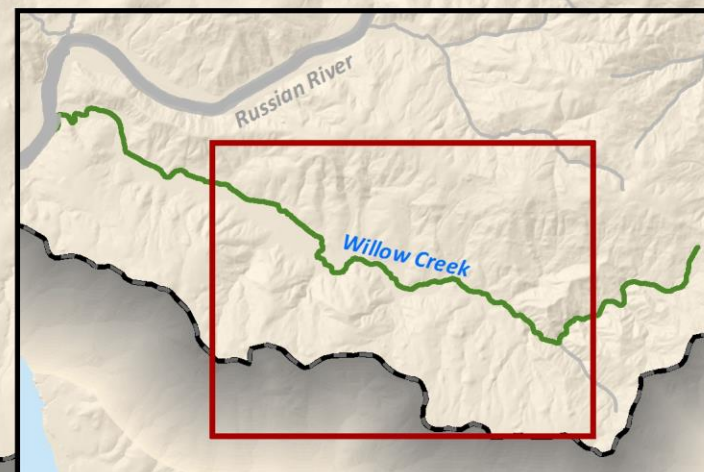


## Russian River Salmon & Steelhead Monitoring Program



Projection: NAD 1983 UTM Zone 10N  
 Source: Imagery and DEM Hillshade (University of Maryland-Sonoma Co. Veg. Map), Streams Layer (County of Sonoma)  
 Map Prepared By: Andrew Bartshire, California Sea Grant  
 Map Name: 2015\_WettedHabitat\_Template\_v2 Date Exported: 02 09 16

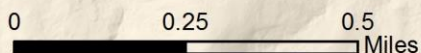
## 2014-15 Redd Condition





# Juvenile Salmonid Counts & Wetted Habitat

## Willow Creek



### 2015 Late Summer Wetted Habitat Condition

Survey Conducted September 17, 2015



### Russian River Salmon & Steelhead Monitoring Program



Projection: NAD 1983 UTM Zone 10N

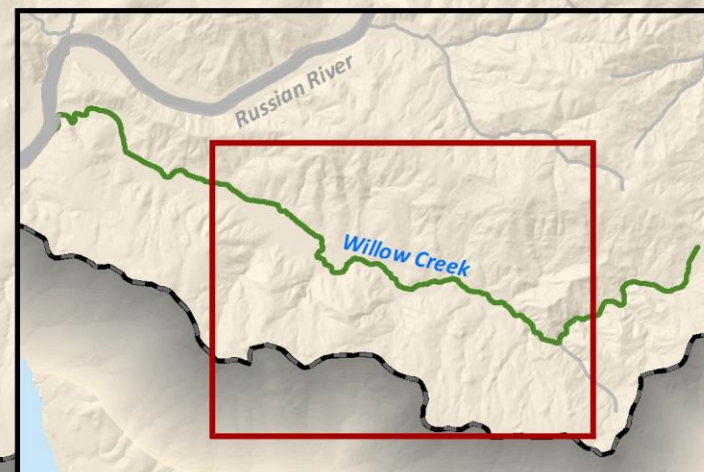
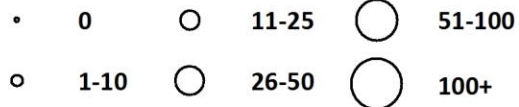
Source: Imagery and DEM Hillshade (University of Maryland-Sonoma Co. Veg. Map), Streams Layer (County of Sonoma)

Map Prepared By: Andrew Bartshire, California Sea Grant

Map Name: 2015\_WettedHabitat\_Template\_v2 Date Exported: 02 09 16

### Summer 2015

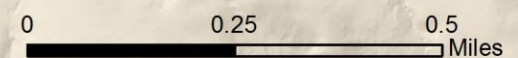
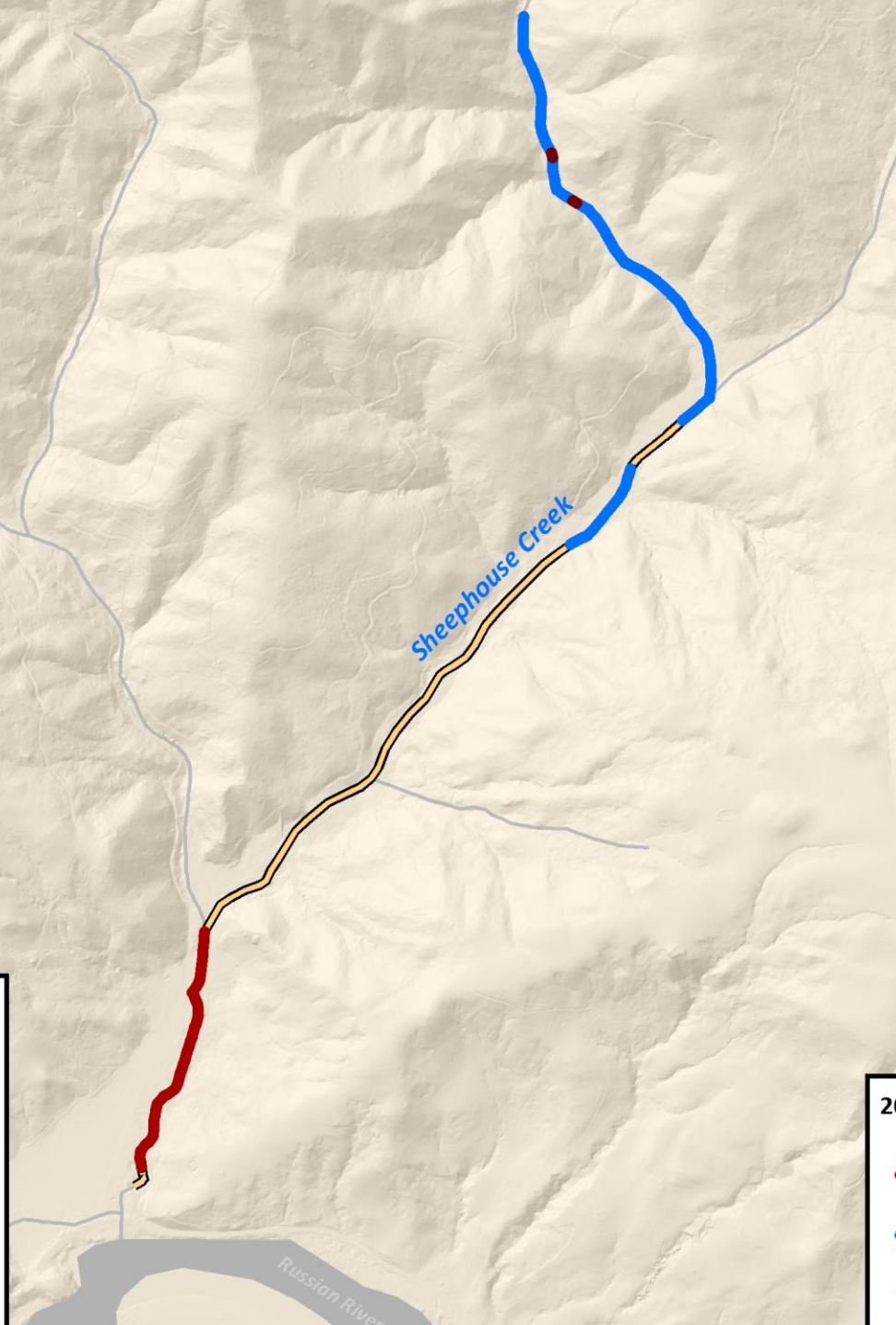
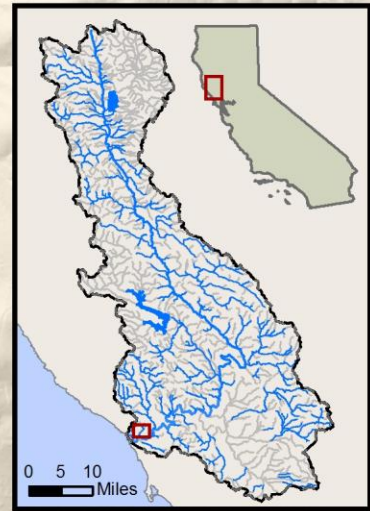
#### Number of Coho and Steelhead Yoy Observed





# Wetted Habitat Survey

## Sheephouse Creek



**Russian River Salmon & Steelhead Monitoring Program**

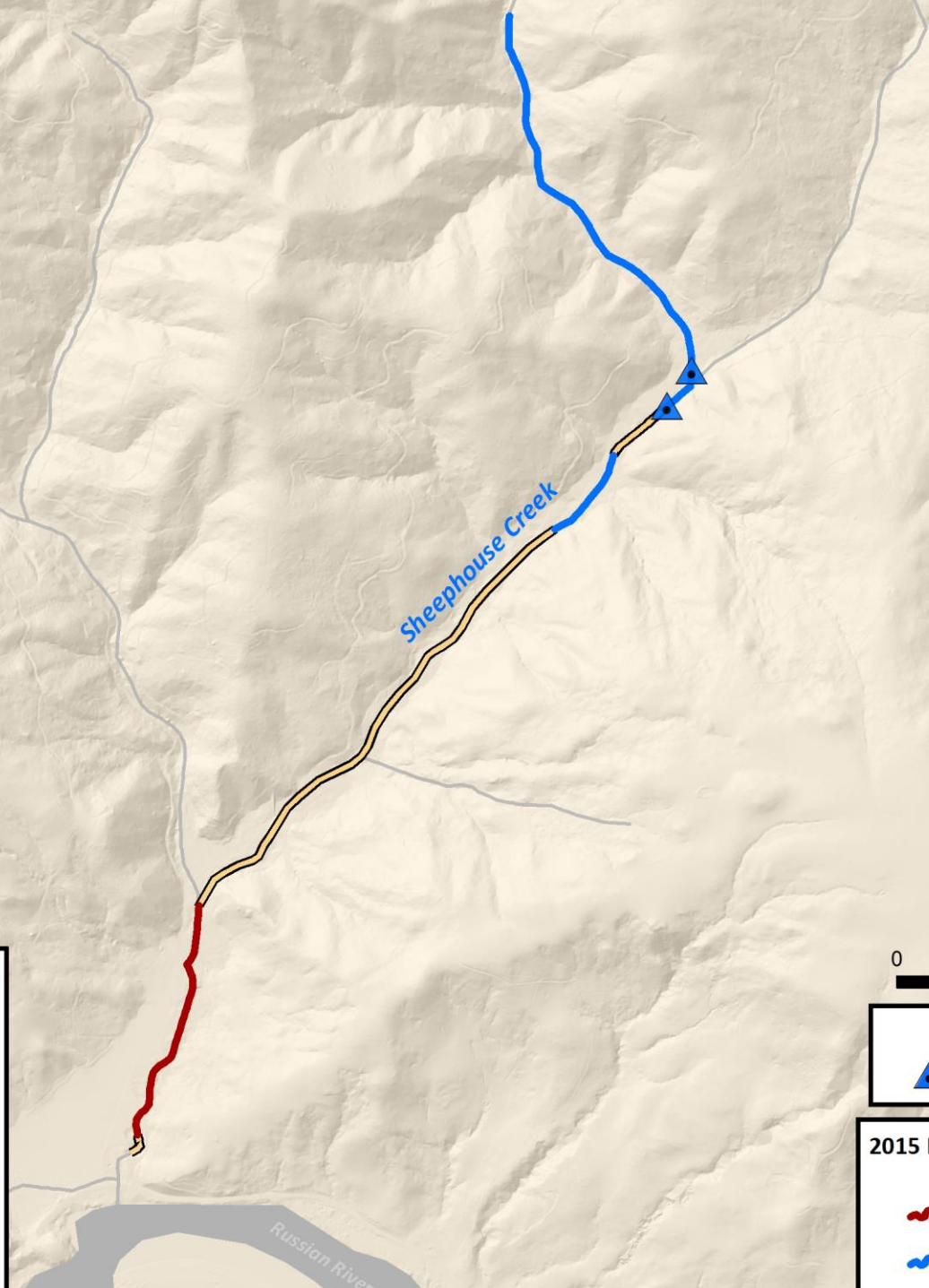
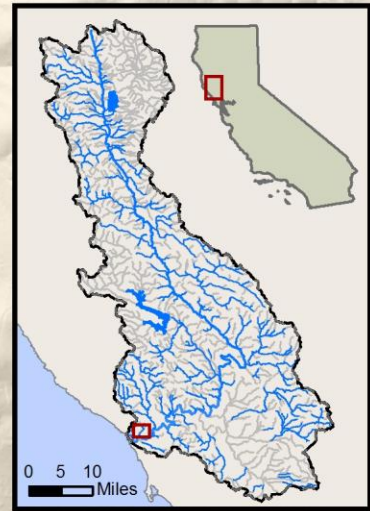
Projection: NAD 1983 UTM Zone 10N  
 Source: Imagery and DEM Hillshade (University of Maryland-Sonoma Co. Veg. Map), Streams Layer (County of Sonoma)  
 Map Prepared By: Andrew Bartshire, California Sea Grant  
 Map Name: 2015\_WettedHabitat\_Template Date Exported: 01 25 16

**2015 Late Summer Wetted Habitat Condition**  
 Survey Conducted September 28, 2015

Dry Reach	Dry Riffle
Wet Reach	Wet Pool
Intermittent	Not Surveyed

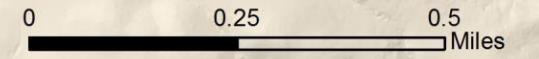


# Salmonid Redds & Wetted Habitat Sheephouse Creek



**Russian River Salmon & Steelhead Monitoring Program**

Projection: NAD 1983 UTM Zone 10N  
Source: Imagery and DEM Hillshade (University of Maryland-Sonoma Co. Veg. Map), Streams Layer (County of Sonoma)  
Map Prepared By: Andrew Bartshire, California Sea Grant  
Map Name: 2015\_WettedHabitat\_Template Date Exported: 01 25 16



**2014-15 Redd Condition**

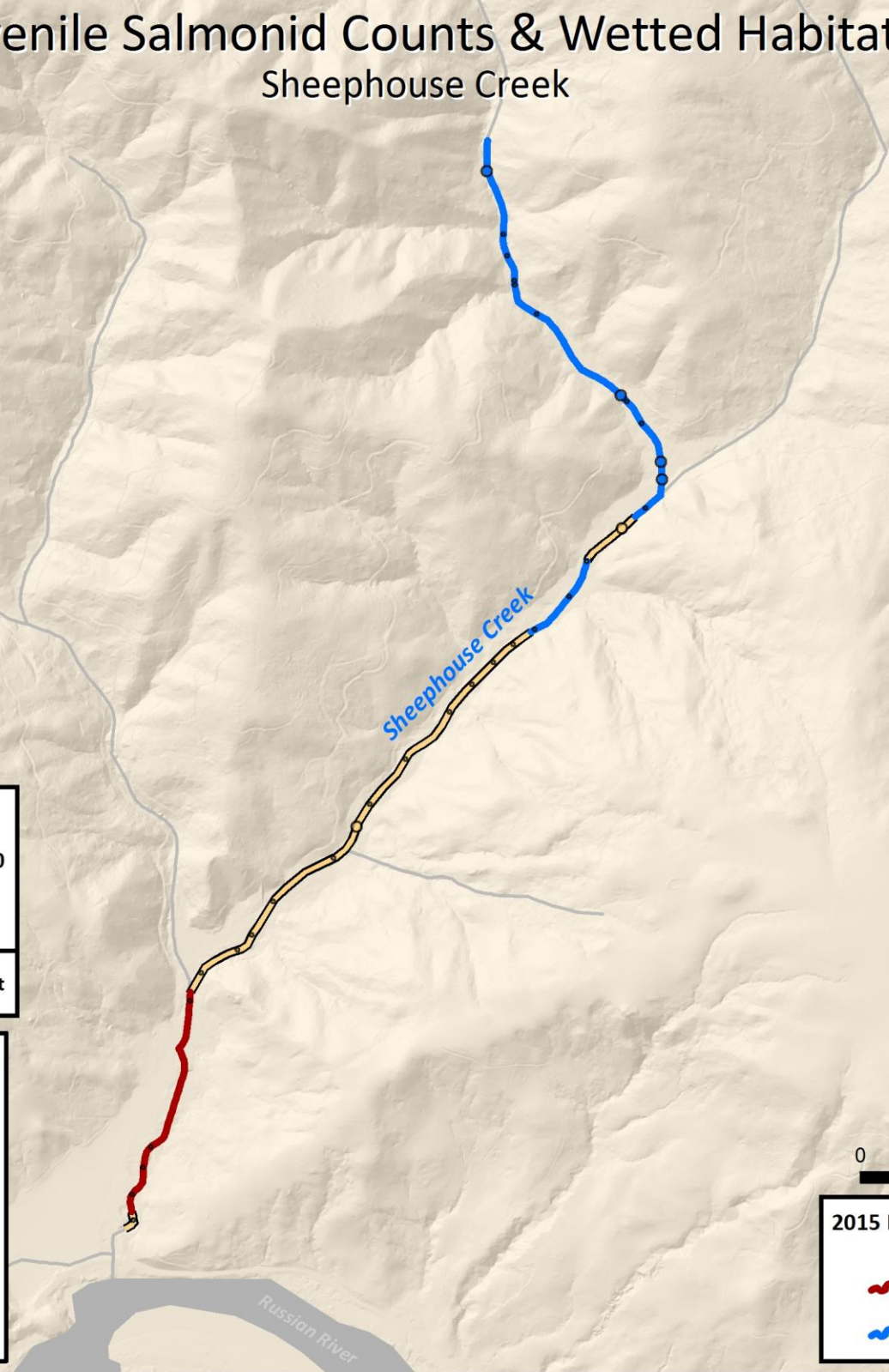
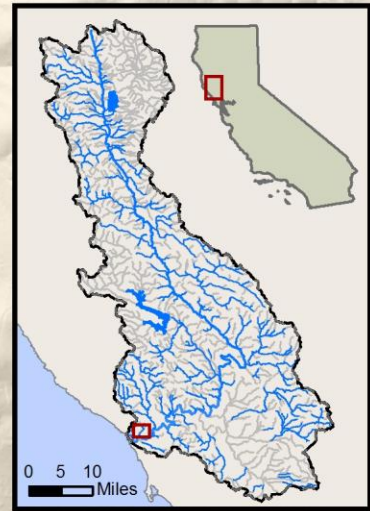
	Wet		Dry		Intermittent
--	-----	--	-----	--	--------------

**2015 Late Summer Wetted Habitat Condition**  
Survey Conducted September 28, 2015

	Dry Reach		Intermittent
	Wet Reach		Not Surveyed



# Juvenile Salmonid Counts & Wetted Habitat Sheephouse Creek



Summer 2015

**Number of Coho and Steelhead Yoy Observed**

• 0	○ 11-25	○ 51-100
○ 1-10	○ 26-50	○ 100+

● Wet	● Dry	● Intermittent
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**Russian River Salmon & Steelhead Monitoring Program**

Projection: NAD 1983 UTM Zone 10N  
 Source: Imagery and DEM Hillshade (University of Maryland-Sonoma Co. Veg. Map), Streams Layer (County of Sonoma)  
 Map Prepared By: Andrew Bartshire, California Sea Grant  
 Map Name: 2015\_WettedHabitat\_Template Date Exported: 01 25 16

0 0.25 0.5 Miles

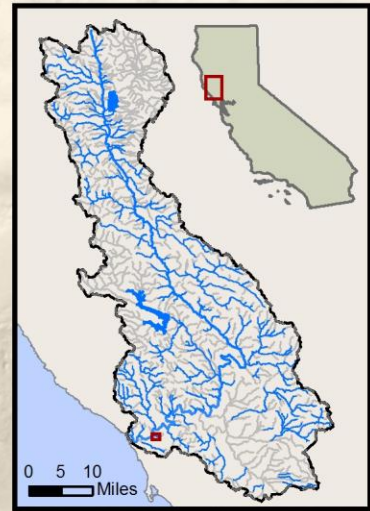
**2015 Late Summer Wetted Habitat Condition**  
 Survey Conducted September 28, 2015

Dry Reach	Intermittent
Wet Reach	Not Surveyed



# Wetted Habitat Survey

## Freezeout Creek









Russian River

Freezeout Creek

0 0.1 0.2 Miles

**2015 Late Summer Wetted Habitat Condition**  
Survey Conducted September 11, 2015

 Dry Reach	 Dry Riffle
 Wet Reach	 Wet Pool
 Intermittent	 Not Surveyed

**Russian River Salmon & Steelhead Monitoring Program**

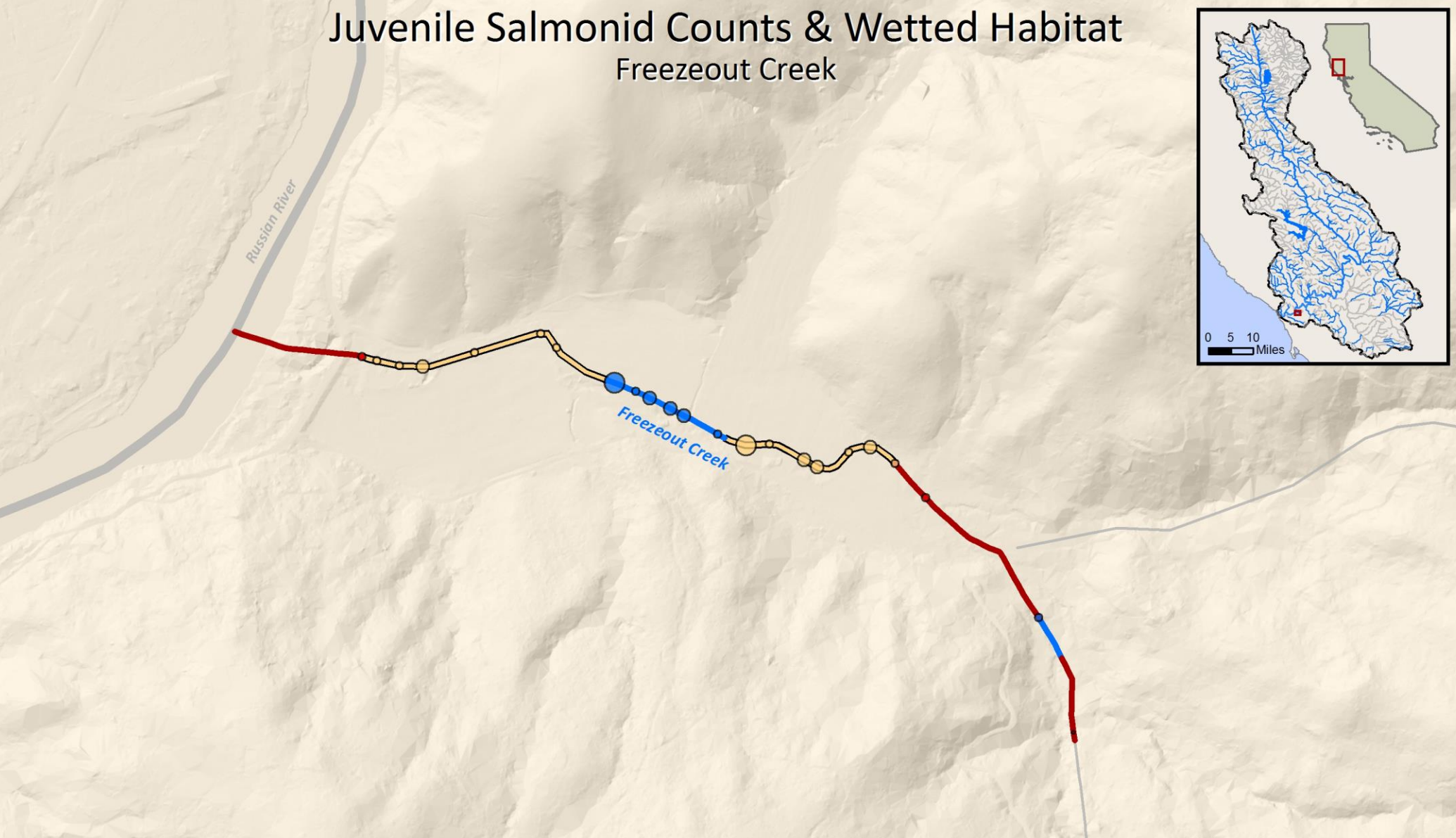
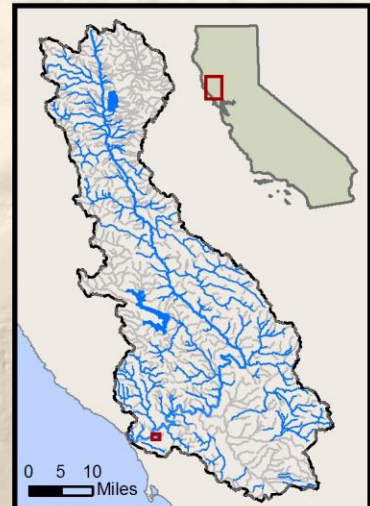


Projection: NAD 1983 UTM Zone 10N  
Source: Imagery and DEM Hillshade (University of Maryland-Sonoma Co. Veg. Map), Streams Layer (County of Sonoma)  
Map Prepared By: Andrew Bartshire, California Sea Grant  
Map Name: 2015\_WettedHabitat\_Template Date Exported: 01 22 16



# Juvenile Salmonid Counts & Wetted Habitat

## Freezeout Creek



0 0.1 0.2 Miles

**2015 Late Summer Wetted Habitat Condition**  
Survey Conducted September 11, 2015

Dry Reach    Intermittent  
 Wet Reach    Not Surveyed

**Summer 2015**

**Number of Coho and Steelhead Yoy Observed**

• 0	○ 11-25	○ 51-100
○ 1-10	○ 26-50	○ 100+

Wet    Dry    Intermittent

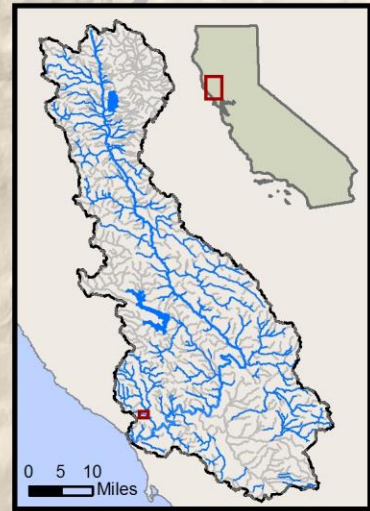
**Russian River Salmonid & Steelhead Monitoring Program**

Projection: NAD 1983 UTM Zone 10N  
 Source: Imagery and DEM Hillshade (University of Maryland-Sonoma Co. Veg. Map), Streams Layer (County of Sonoma)  
 Map Prepared By: Andrew Bartshire, California Sea Grant  
 Map Name: 2015\_WettedHabitat\_Template Date Exported: 01 22 16



# Wetted Habitat Survey

## Kidd Creek



Kidd Creek

Austin Creek

### Russian River Salmon & Steelhead Monitoring Program









Projection: NAD 1983 UTM Zone 10N  
Source: Imagery and DEM Hillshade (University of Maryland-Sonoma Co. Veg. Map), Streams Layer (County of Sonoma)  
Map Prepared By: Andrew Bartshire, California Sea Grant  
Map Name: 2015\_WettedHabitat\_Template Date Exported: 01 25 16

0 0.125 0.25 Miles

#### 2015 Late Summer Wetted Habitat Condition

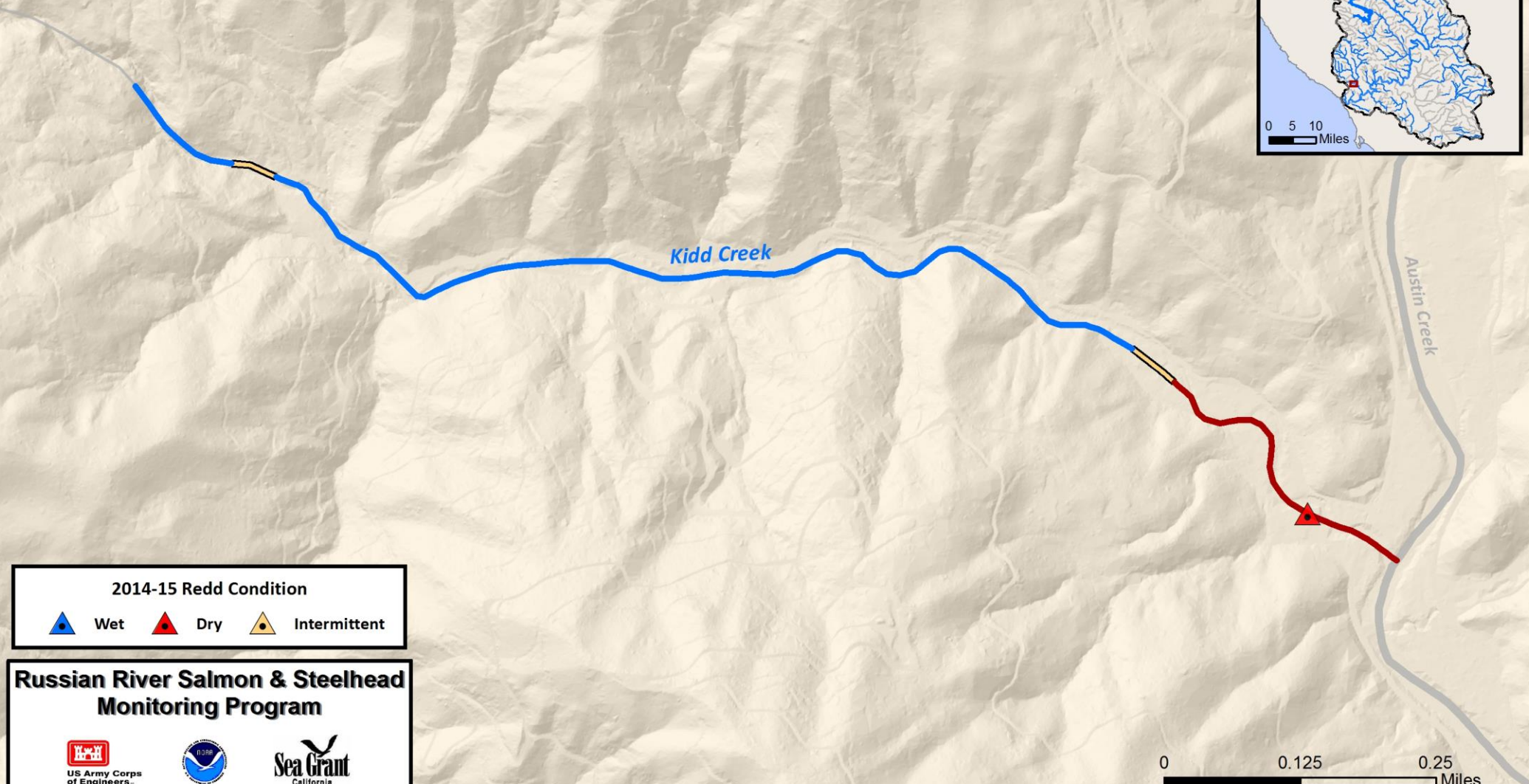
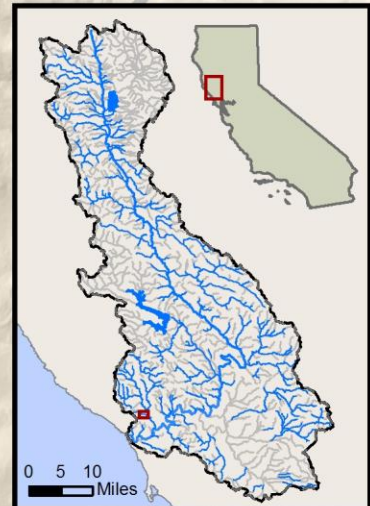
Survey Conducted September 25, 2015

 Dry Reach	 Dry Riffle
 Wet Reach	 Wet Pool
 Intermittent	 Not Surveyed



# Salmonid Redds & Wetted Habitat

## Kidd Creek



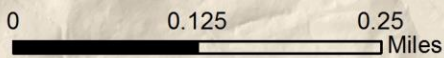
**2014-15 Redd Condition**

▲ Wet   ▲ Dry   ▲ Intermittent

### Russian River Salmon & Steelhead Monitoring Program



Projection: NAD 1983 UTM Zone 10N  
Source: Imagery and DEM Hillshade (University of Maryland-Sonoma Co. Veg. Map), Streams Layer (County of Sonoma)  
Map Prepared By: Andrew Bartshire, California Sea Grant  
Map Name: 2015\_WettedHabitat\_Template Date Exported: 01 25 16



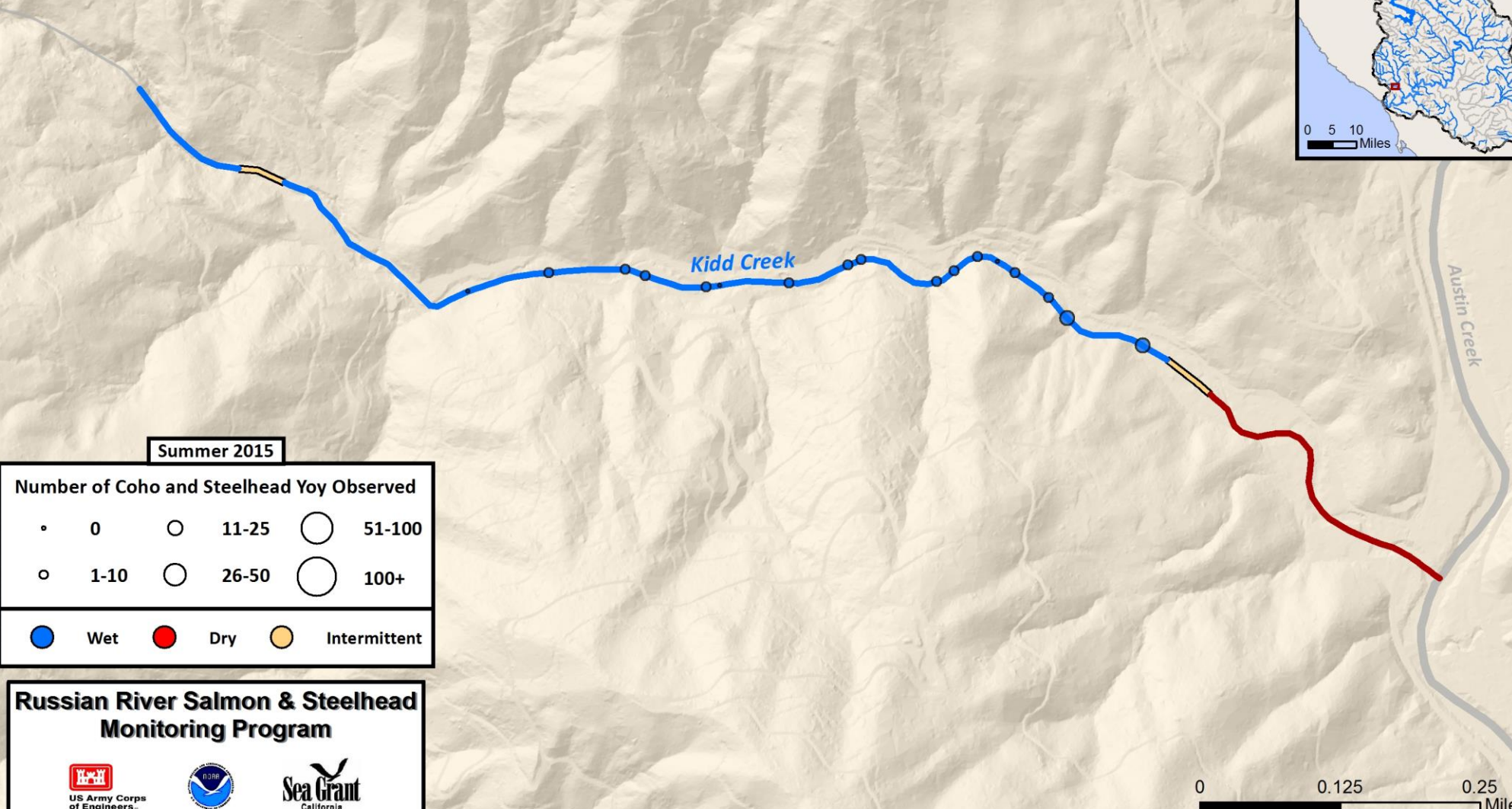
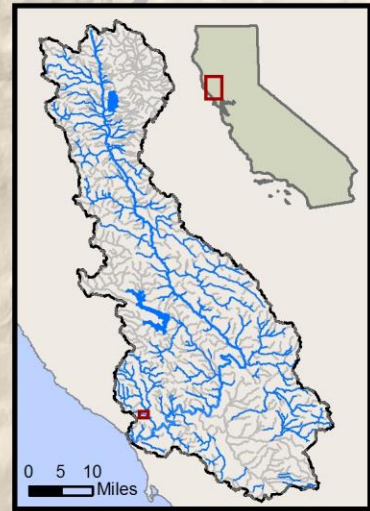
**2015 Late Summer Wetted Habitat Condition**  
Survey Conducted September 25, 2015

— Dry Reach   — Intermittent  
— Wet Reach   — Not Surveyed



# Juvenile Salmonid Counts & Wetted Habitat

## Kidd Creek



Summer 2015

**Number of Coho and Steelhead Yoy Observed**

• 0	○ 11-25	○ 51-100
○ 1-10	○ 26-50	○ 100+

● Wet	● Dry	● Intermittent
-------	-------	----------------

**Russian River Salmon & Steelhead Monitoring Program**

Projection: NAD 1983 UTM Zone 10N  
 Source: Imagery and DEM Hillshade (University of Maryland-Sonoma Co. Veg. Map), Streams Layer (County of Sonoma)  
 Map Prepared By: Andrew Bartshire, California Sea Grant  
 Map Name: 2015\_WettedHabitat\_Template Date Exported: 01 25 16

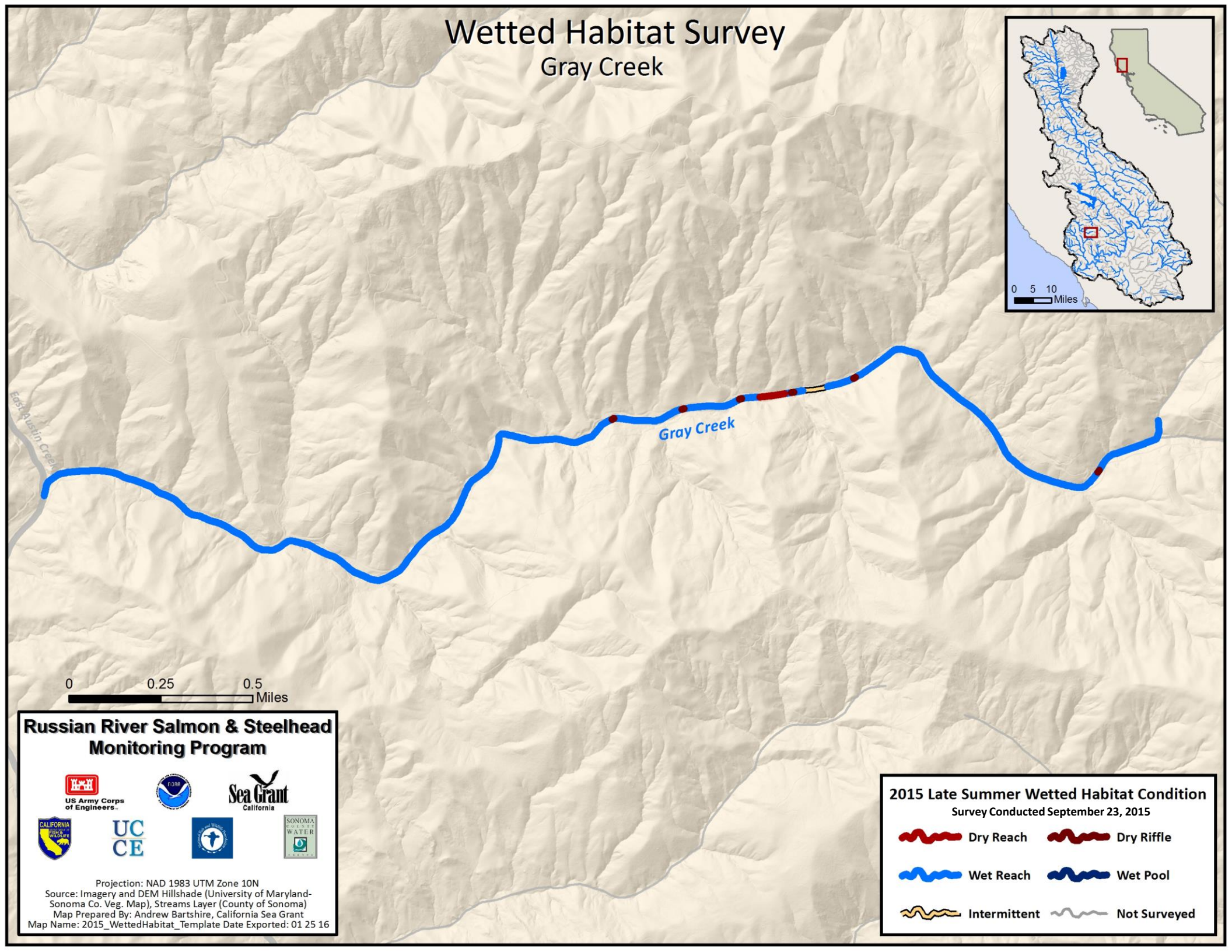
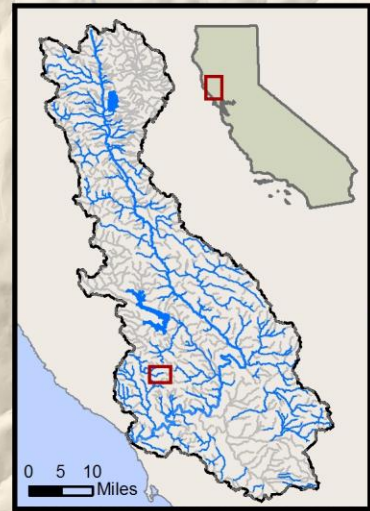
0 0.125 0.25 Miles

**2015 Late Summer Wetted Habitat Condition**  
 Survey Conducted September 25, 2015

Dry Reach	Intermittent
Wet Reach	Not Surveyed



# Wetted Habitat Survey Gray Creek









0 0.25 0.5 Miles

## Russian River Salmon & Steelhead Monitoring Program



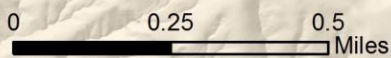
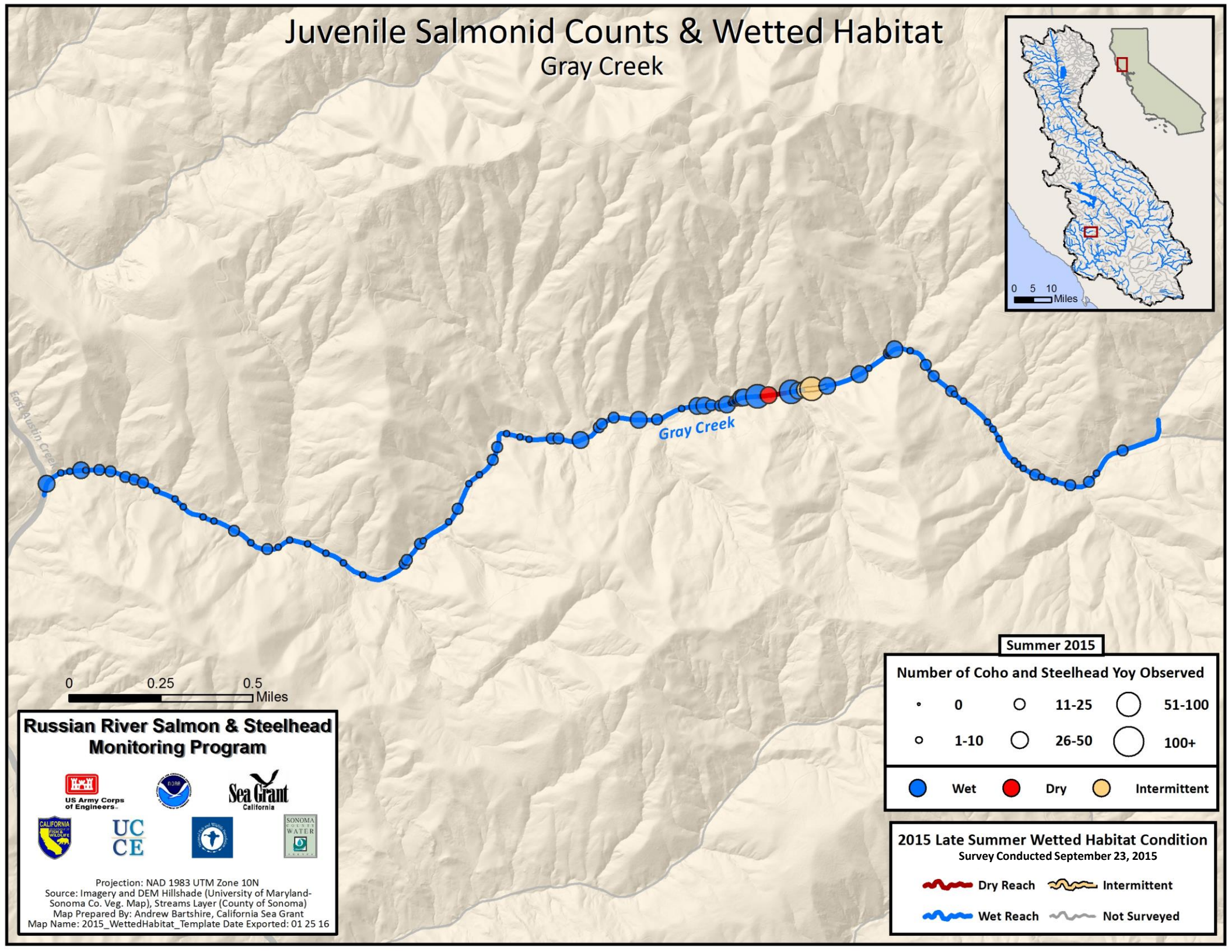
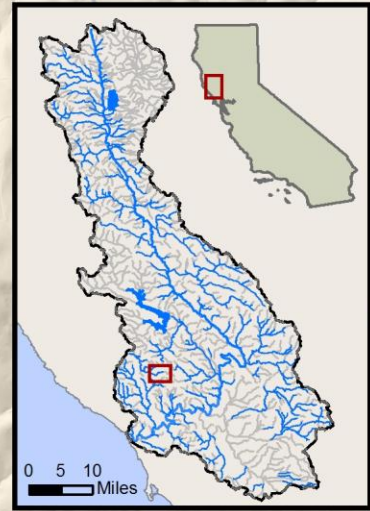
### 2015 Late Summer Wetted Habitat Condition Survey Conducted September 23, 2015

- |  |  |
|--|--|
|  Dry Reach    |  Dry Riffle   |
|  Wet Reach    |  Wet Pool     |
|  Intermittent |  Not Surveyed |

Projection: NAD 1983 UTM Zone 10N  
Source: Imagery and DEM Hillshade (University of Maryland-Sonoma Co. Veg. Map), Streams Layer (County of Sonoma)  
Map Prepared By: Andrew Bartshire, California Sea Grant  
Map Name: 2015\_WettedHabitat\_Template Date Exported: 01 25 16



# Juvenile Salmonid Counts & Wetted Habitat Gray Creek

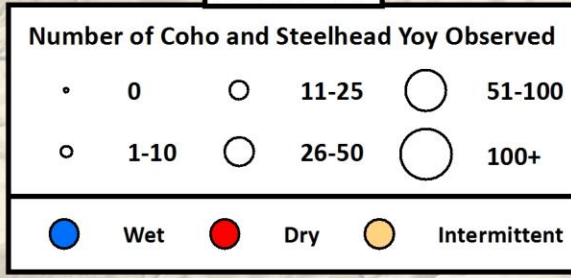


## Russian River Salmon & Steelhead Monitoring Program



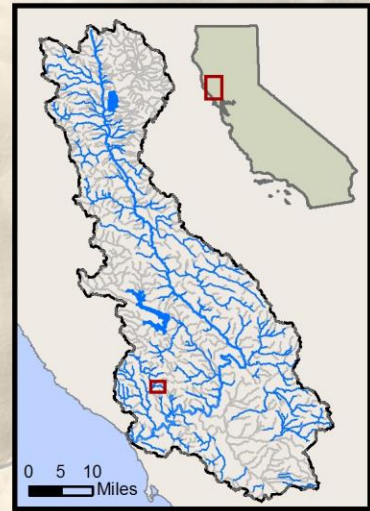
Projection: NAD 1983 UTM Zone 10N  
 Source: Imagery and DEM Hillshade (University of Maryland-Sonoma Co. Veg. Map), Streams Layer (County of Sonoma)  
 Map Prepared By: Andrew Bartshire, California Sea Grant  
 Map Name: 2015\_WettedHabitat\_Template Date Exported: 01 25 16

### Summer 2015





# Wetted Habitat Survey Gilliam Creek



East Austin Creek

Gilliam Creek







Schoolhouse Creek

## Russian River Salmon & Steelhead Monitoring Program



0 0.25 0.5 Miles

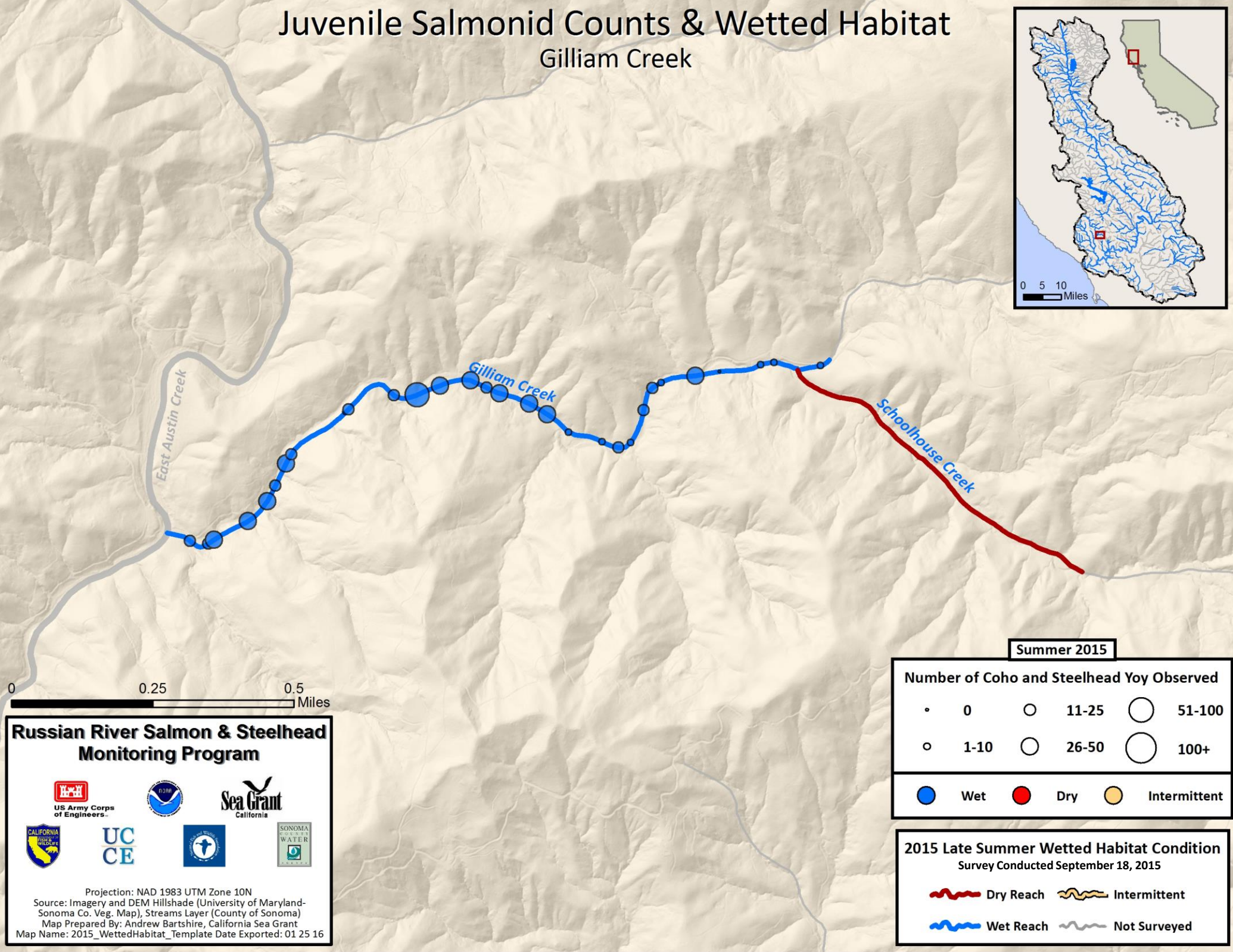
### 2015 Late Summer Wetted Habitat Condition Survey Conducted September 18, 2015

- |  |  |
|--|--|
|  Dry Reach    |  Dry Riffle   |
|  Wet Reach    |  Wet Pool     |
|  Intermittent |  Not Surveyed |

Projection: NAD 1983 UTM Zone 10N  
Source: Imagery and DEM Hillshade (University of Maryland-Sonoma Co. Veg. Map), Streams Layer (County of Sonoma)  
Map Prepared By: Andrew Bartshire, California Sea Grant  
Map Name: 2015\_WettedHabitat\_Template Date Exported: 01 25 16

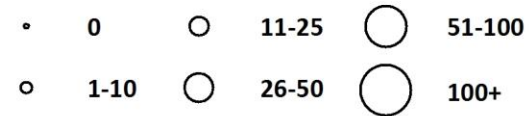


# Juvenile Salmonid Counts & Wetted Habitat Gilliam Creek



Summer 2015

Number of Coho and Steelhead Yoy Observed



2015 Late Summer Wetted Habitat Condition  
Survey Conducted September 18, 2015



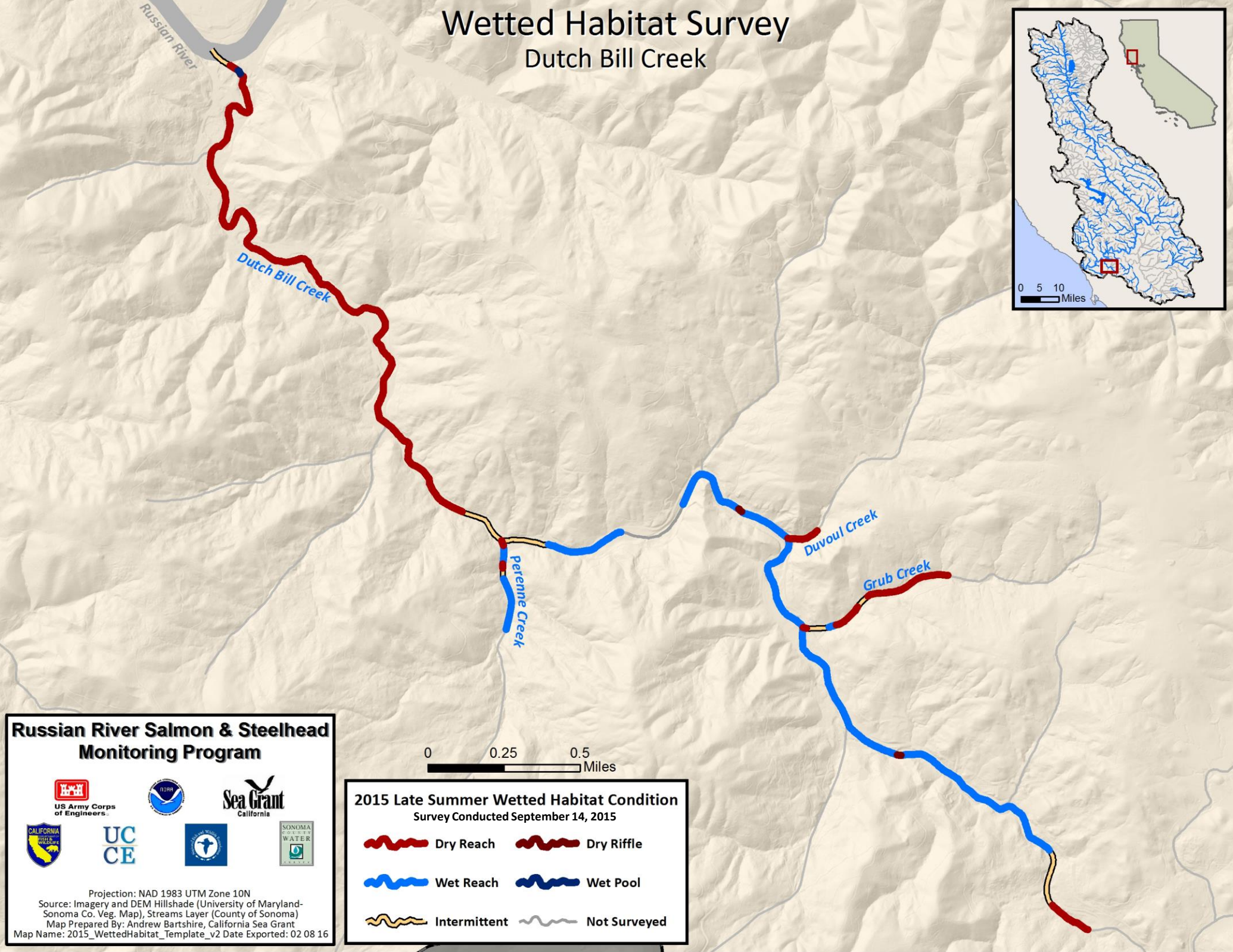
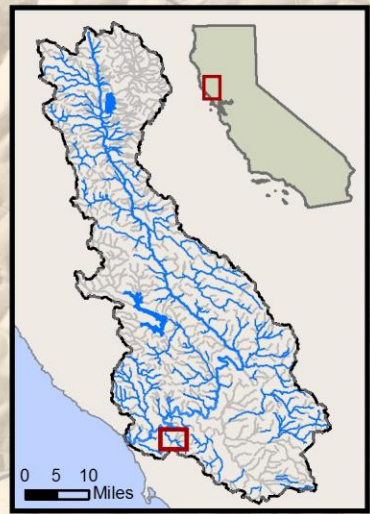
## Russian River Salmon & Steelhead Monitoring Program



Projection: NAD 1983 UTM Zone 10N  
 Source: Imagery and DEM Hillshade (University of Maryland-Sonoma Co. Veg. Map), Streams Layer (County of Sonoma)  
 Map Prepared By: Andrew Bartshire, California Sea Grant  
 Map Name: 2015\_WettedHabitat\_Template Date Exported: 01 25 16



# Wetted Habitat Survey Dutch Bill Creek



## Russian River Salmon & Steelhead Monitoring Program



Projection: NAD 1983 UTM Zone 10N  
Source: Imagery and DEM Hillshade (University of Maryland-Sonoma Co. Veg. Map), Streams Layer (County of Sonoma)  
Map Prepared By: Andrew Bartshire, California Sea Grant  
Map Name: 2015\_WettedHabitat\_Template\_v2 Date Exported: 02/08/16

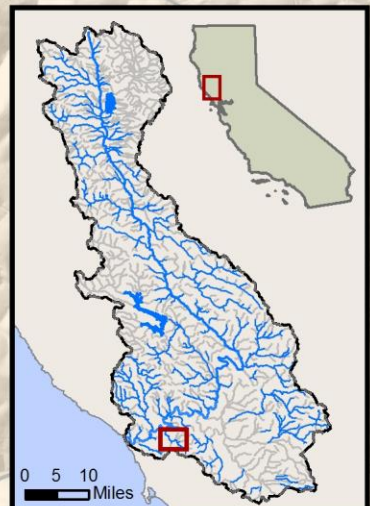
### 2015 Late Summer Wetted Habitat Condition Survey Conducted September 14, 2015

- |              |              |
|--------------|--------------|
| Dry Reach    | Dry Riffle   |
| Wet Reach    | Wet Pool     |
| Intermittent | Not Surveyed |



# Salmonid Redds & Wetted Habitat

## Dutch Bill Creek



**2014-15 Redd Condition**

- ▲ Wet
- ▲ Dry
- ▲ Intermittent

**Russian River Salmon & Steelhead Monitoring Program**





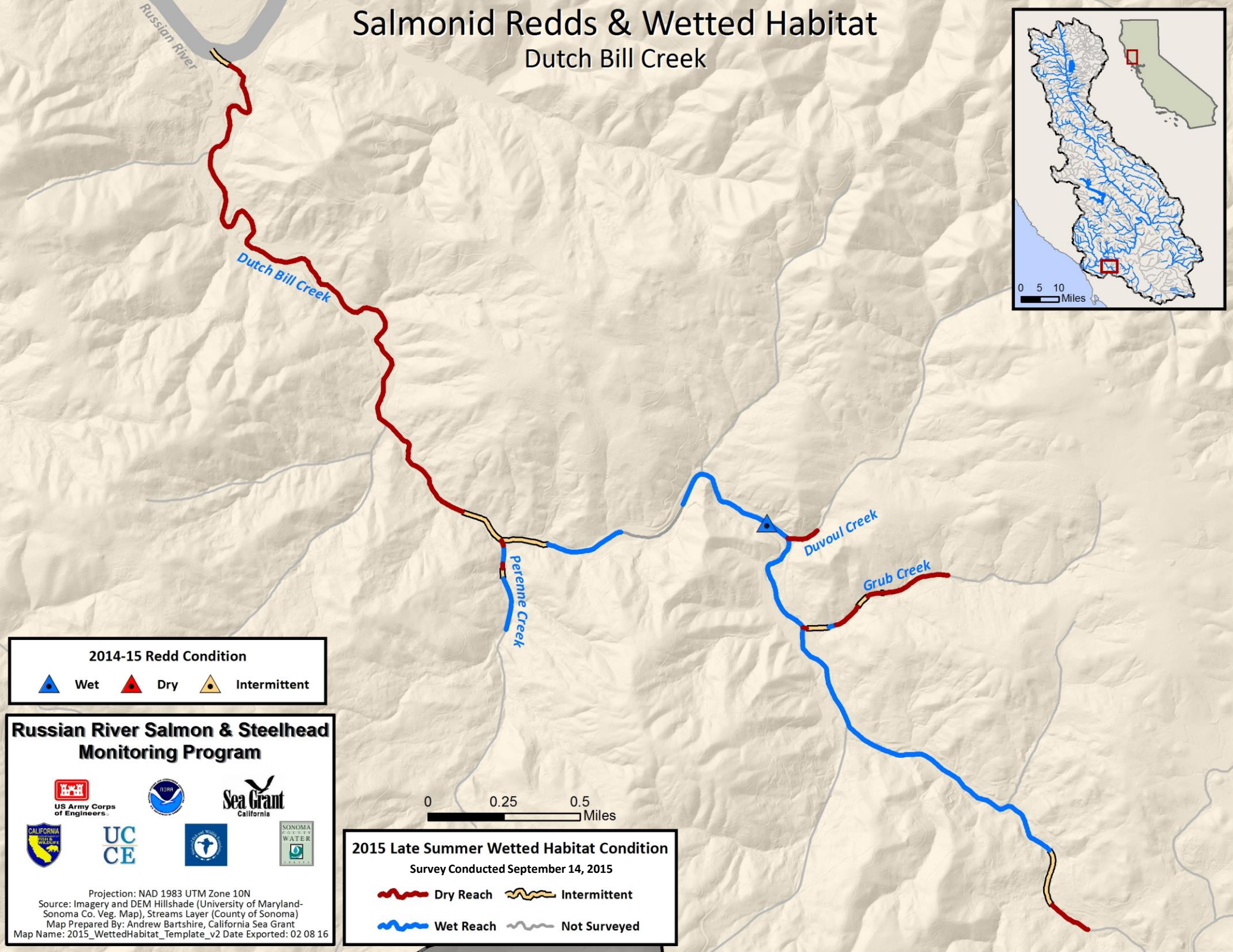
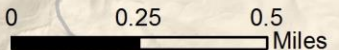





Projection: NAD 1983 UTM Zone 10N  
 Source: Imagery and DEM Hillshade (University of Maryland-Sonoma Co. Veg. Map), Streams Layer (County of Sonoma)  
 Map Prepared By: Andrew Bartshire, California Sea Grant  
 Map Name: 2015\_WettedHabitat\_Template\_v2 Date Exported: 02 08 16

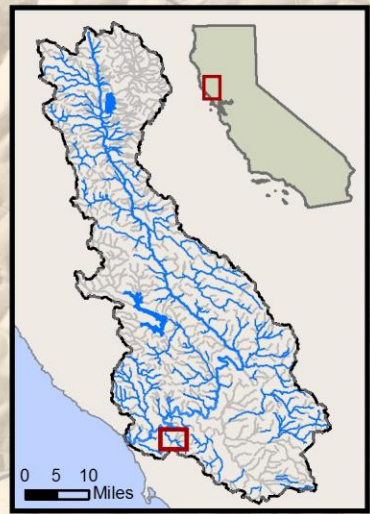
**2015 Late Summer Wetted Habitat Condition**  
 Survey Conducted September 14, 2015

- ~ Dry Reach
- ~ Intermittent
- ~ Wet Reach
- ~ Not Surveyed





# Juvenile Salmonid Counts & Wetted Habitat Dutch Bill Creek



**Summer 2015**

**Number of Coho and Steelhead Yoy Observed**

• 0	○ 11-25	○ 51-100
○ 1-10	○ 26-50	○ 100+

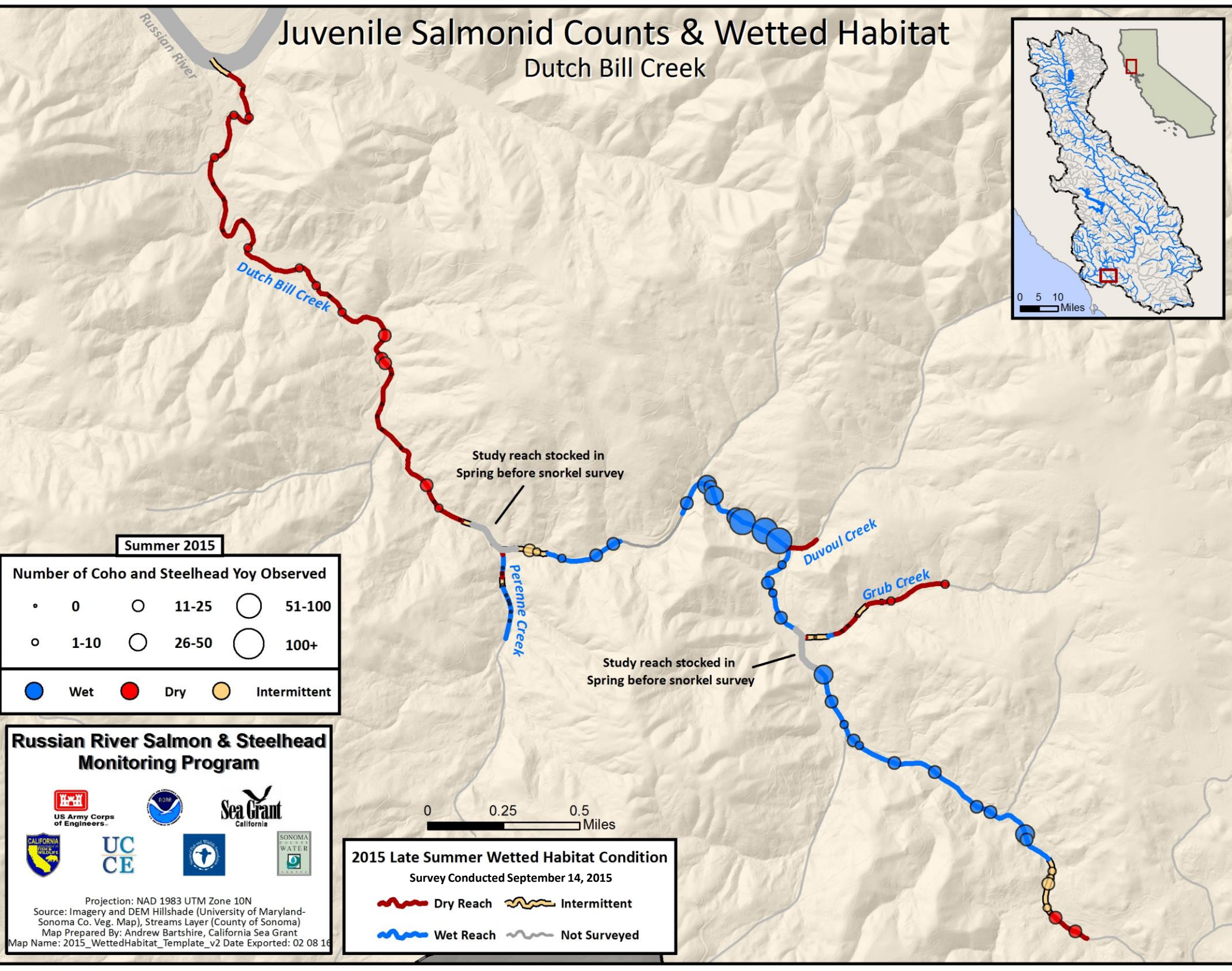
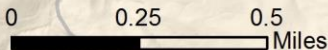
● Wet   
 ● Dry   
 ● Intermittent

**Russian River Salmon & Steelhead Monitoring Program**

Projection: NAD 1983 UTM Zone 10N  
 Source: Imagery and DEM Hillshade (University of Maryland-Sonoma Co. Veg. Map), Streams Layer (County of Sonoma)  
 Map Prepared By: Andrew Bartshire, California Sea Grant  
 Map Name: 2015\_WettedHabitat\_Template\_v2 Date Exported: 02 08 16

**2015 Late Summer Wetted Habitat Condition**  
Survey Conducted September 14, 2015

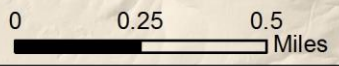
~ Dry Reach   
 ~ Intermittent  
~ Wet Reach   
 ~ Not Surveyed











# Wetted Habitat Survey

## Green Valley Creek



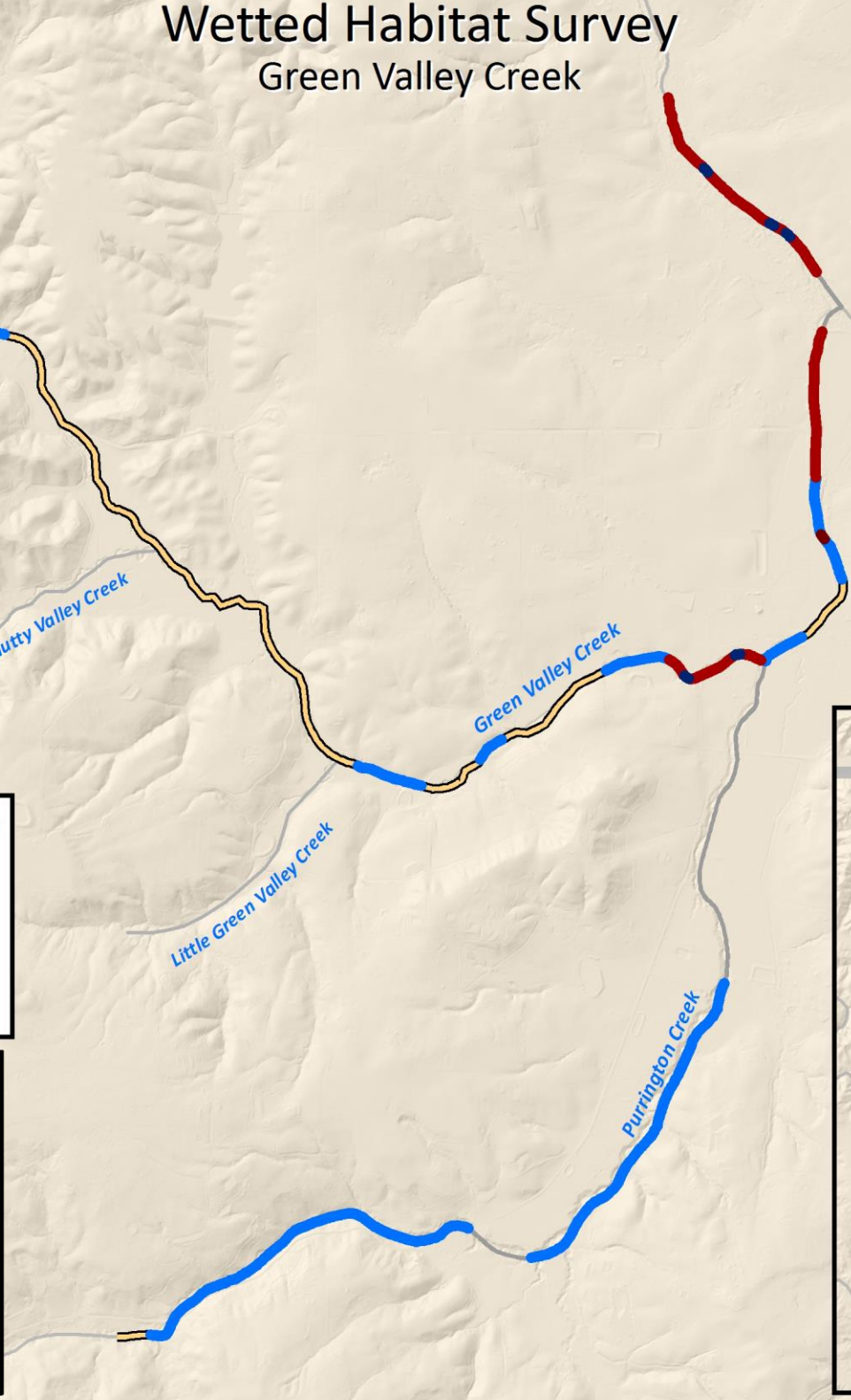
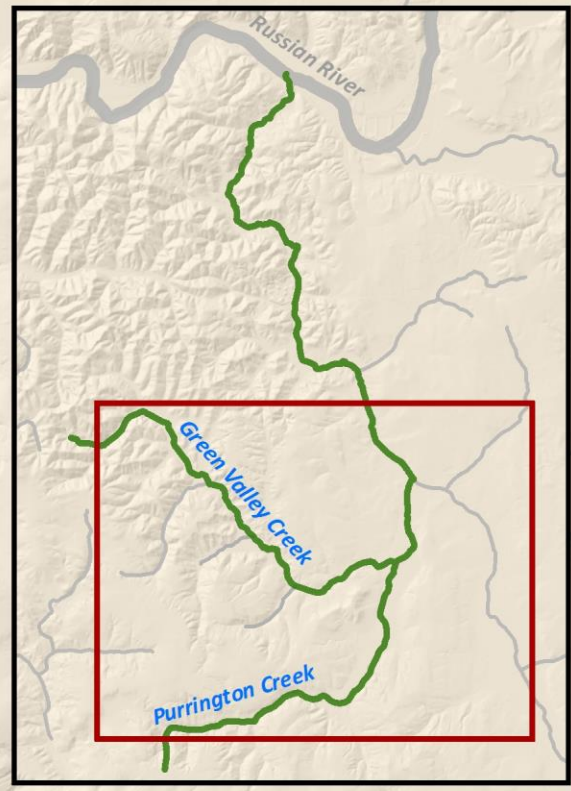
**2015 Late Summer Wetted Habitat Condition**  
Survey Conducted 8/28 – 9/1, 2015

 Dry Reach	 Dry Riffle
 Wet Reach	 Wet Pool
 Intermittent	 Not Surveyed

**Russian River Salmon & Steelhead Monitoring Program**

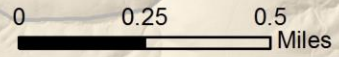
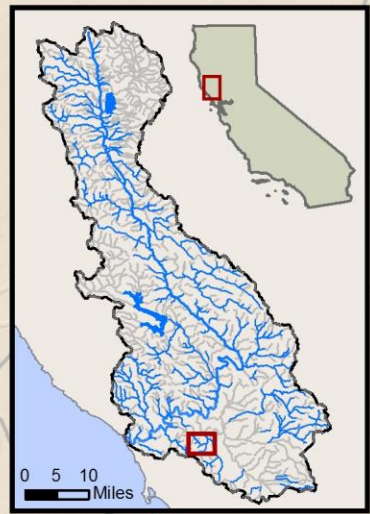


Projection: NAD 1983 UTM Zone 10N  
 Source: Imagery and DEM Hillshade (University of Maryland-Sonoma Co. Veg. Map), Streams Layer (County of Sonoma)  
 Map Prepared By: Andrew Bartshire, California Sea Grant  
 Map Name: 2015\_WettedHabitat\_Template\_v2 Date Exported: 02 08 16





# Salmonid Redds & Wetted Habitat Green Valley Creek



**2014-15 Redd Condition**

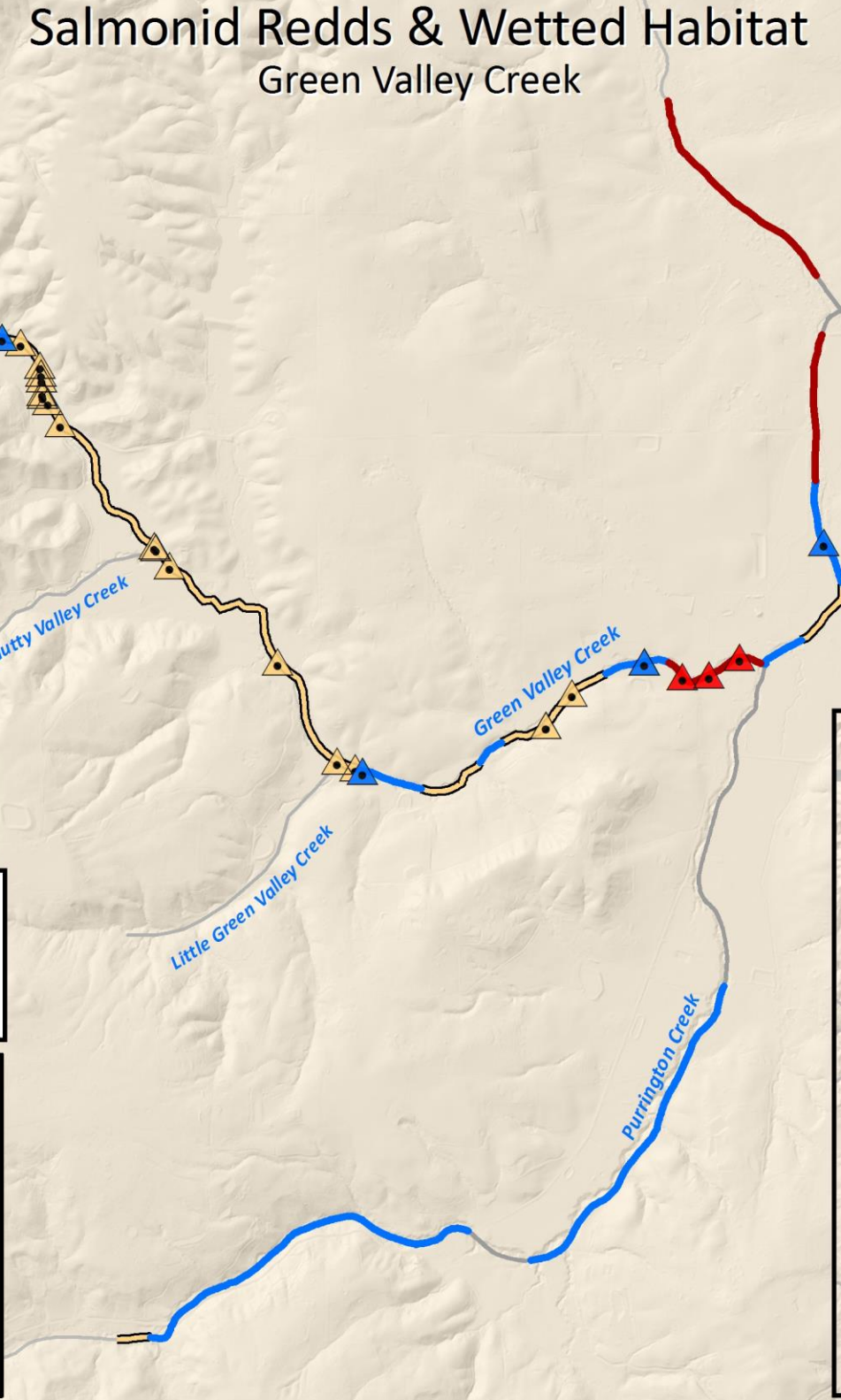
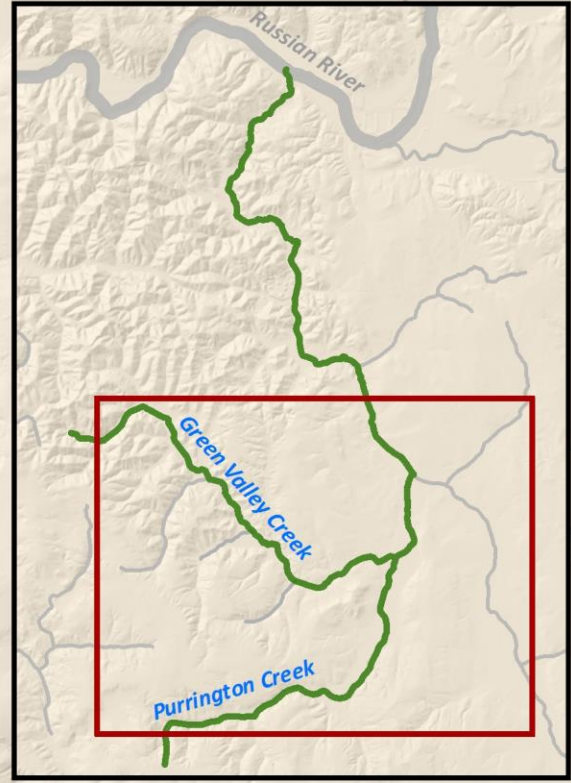
- Wet
- Dry
- Intermittent

**2015 Late Summer Wetted Habitat Condition**  
Survey Conducted 8/28 – 9/1, 2015

- Dry Reach
- Intermittent
- Wet Reach
- Not Surveyed

**Russian River Salmon & Steelhead Monitoring Program**

Projection: NAD 1983 UTM Zone 10N  
 Source: Imagery and DEM Hillshade (University of Maryland-Sonoma Co. Veg. Map), Streams Layer (County of Sonoma)  
 Map Prepared By: Andrew Bartshire, California Sea Grant  
 Map Name: 2015\_WettedHabitat\_Template\_v2 Date Exported: 02/08/16





# Juvenile Salmonid Counts & Wetted Habitat

## Green Valley Creek



**2015 Late Summer Wetted Habitat Condition**  
Survey Conducted 8/28 – 9/1, 2015

— Dry Reach    — Intermittent  
— Wet Reach    — Not Surveyed

**Summer 2015**

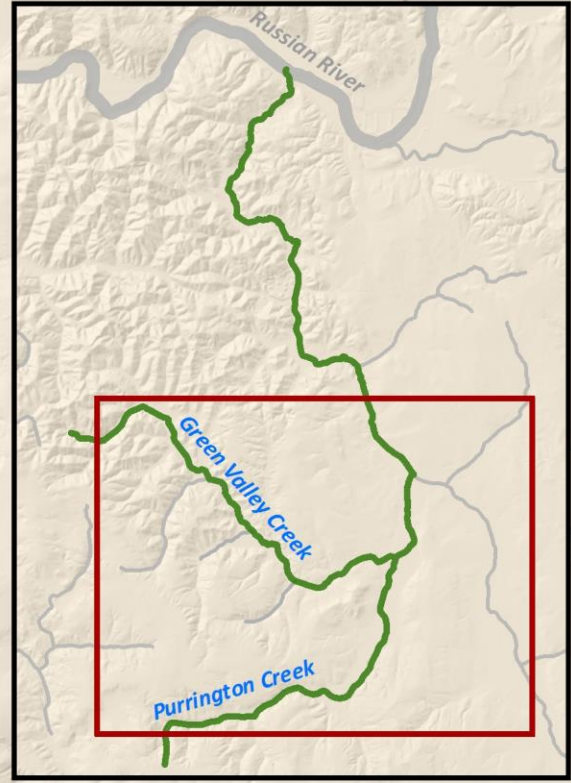
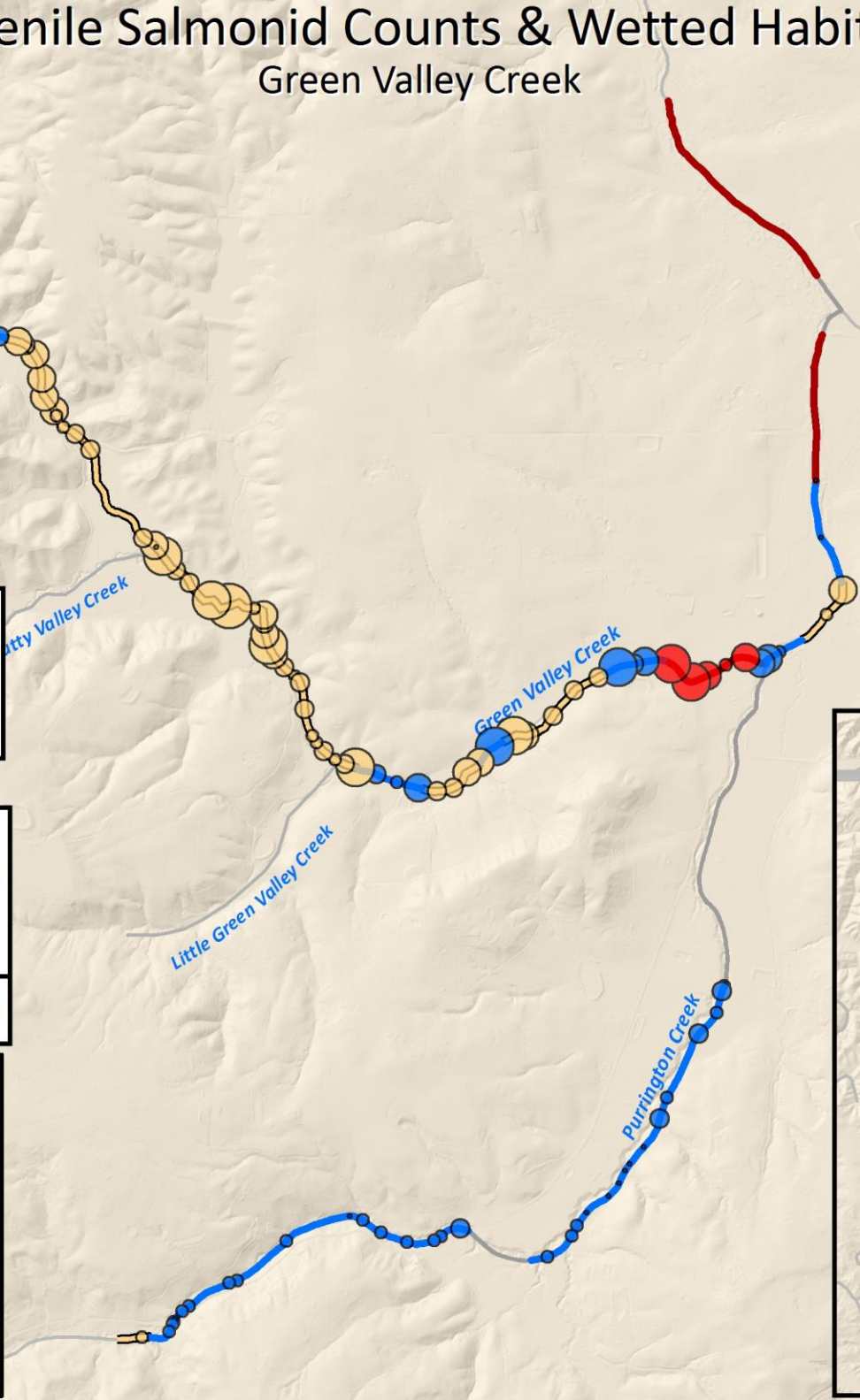
**Number of Coho and Steelhead Yoy Observed**

• 0	○ 11-25	○ 51-100
○ 1-10	○ 26-50	○ 100+

● Wet    ● Dry    ● Intermittent

**Russian River Salmon & Steelhead Monitoring Program**

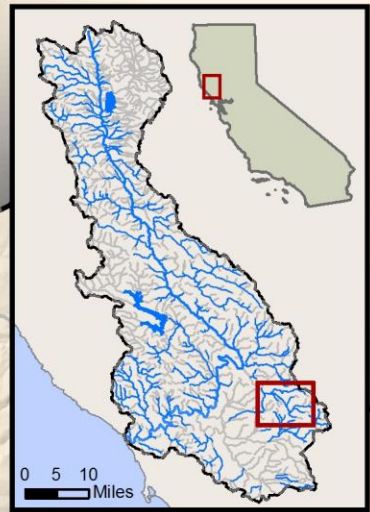
Projection: NAD 1983 UTM Zone 10N  
 Source: Imagery and DEM Hillshade (University of Maryland-Sonoma Co. Veg. Map), Streams Layer (County of Sonoma)  
 Map Prepared By: Andrew Bartshire, California Sea Grant  
 Map Name: 2015\_WettedHabitat\_Template\_v2 Date Exported: 02/08/16





# Wetted Habitat Survey

## Mark West Creek



0 0.75 1.5 Miles







### Russian River Salmon & Steelhead Monitoring Program

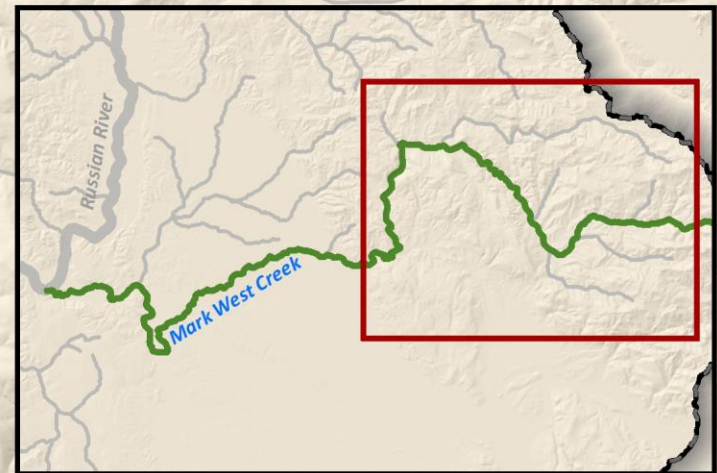


Projection: NAD 1983 UTM Zone 10N  
 Source: Imagery and DEM Hillshade (University of Maryland-Sonoma Co. Veg. Map), Streams Layer (County of Sonoma)  
 Map Prepared By: Andrew Bartshire, California Sea Grant  
 Map Name: 2015\_WettedHabitat\_Template\_v2 Date Exported: 02/09/16

### 2015 Late Summer Wetted Habitat Condition

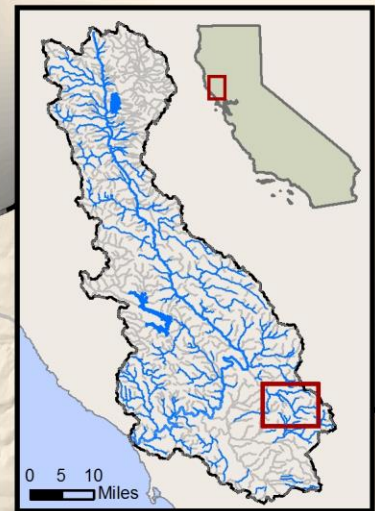
Survey Conducted by CDFW September 1-2, 2015

- |  |  |
|--|--|
|  Dry Reach    |  Dry Riffle   |
|  Wet Reach    |  Wet Pool     |
|  Intermittent |  Not Surveyed |





# Salmonid Redds & Wetted Habitat Mark West Creek

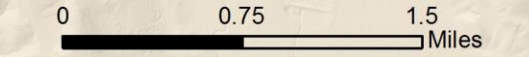


**2015 Late Summer Wetted Habitat Condition**  
Survey Conducted by CDFW September 1-2, 2015

Dry Reach   
 Intermittent  
 Wet Reach   
 Not Surveyed

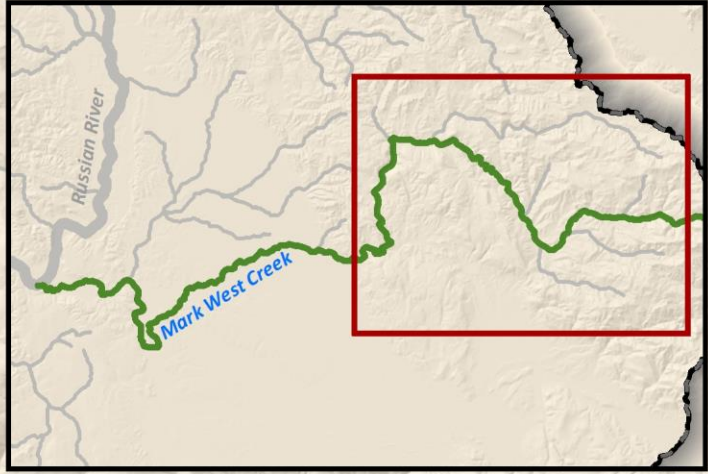
**Russian River Salmon & Steelhead Monitoring Program**

Projection: NAD 1983 UTM Zone 10N  
 Source: Imagery and DEM Hillshade (University of Maryland-Sonoma Co. Veg. Map), Streams Layer (County of Sonoma)  
 Map Prepared By: Andrew Bartshire, California Sea Grant  
 Map Name: 2015\_WettedHabitat\_Template\_v2 Date Exported: 02/09/16



**2014-15 Redd Condition**

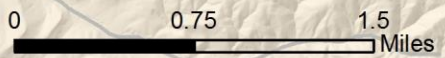
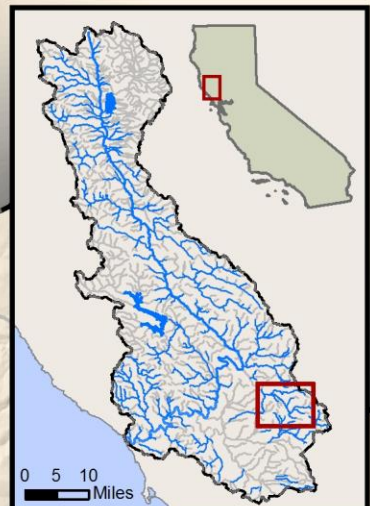
Wet   
 Dry   
 Intermittent





# Juvenile Salmonid Counts & Wetted Habitat

## Mark West Creek



**2015 Late Summer Wetted Habitat Condition**  
 Survey Conducted by CDFW September 1-2, 2015

Dry Reach   
 Intermittent  
 Wet Reach   
 Not Surveyed

**Russian River Salmon & Steelhead Monitoring Program**

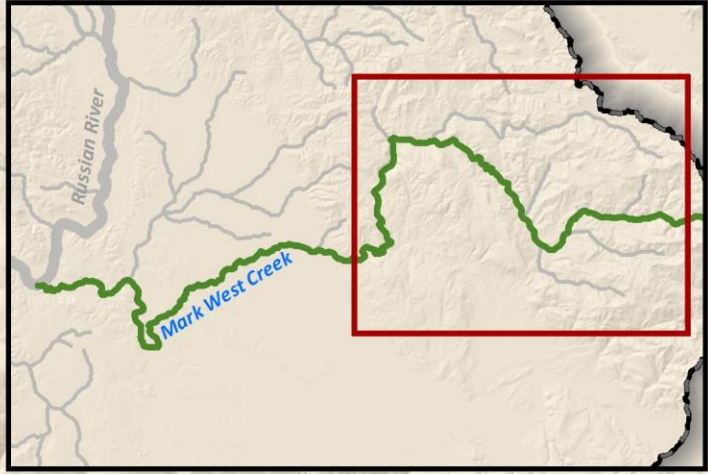
Projection: NAD 1983 UTM Zone 10N  
 Source: Imagery and DEM Hillshade (University of Maryland-Sonoma Co. Veg. Map), Streams Layer (County of Sonoma)  
 Map Prepared By: Andrew Bartshire, California Sea Grant  
 Map Name: 2015\_WettedHabitat\_Template\_v2 Date Exported: 02/09/16

**Summer 2015**

**Number of Coho and Steelhead Yoy Observed**

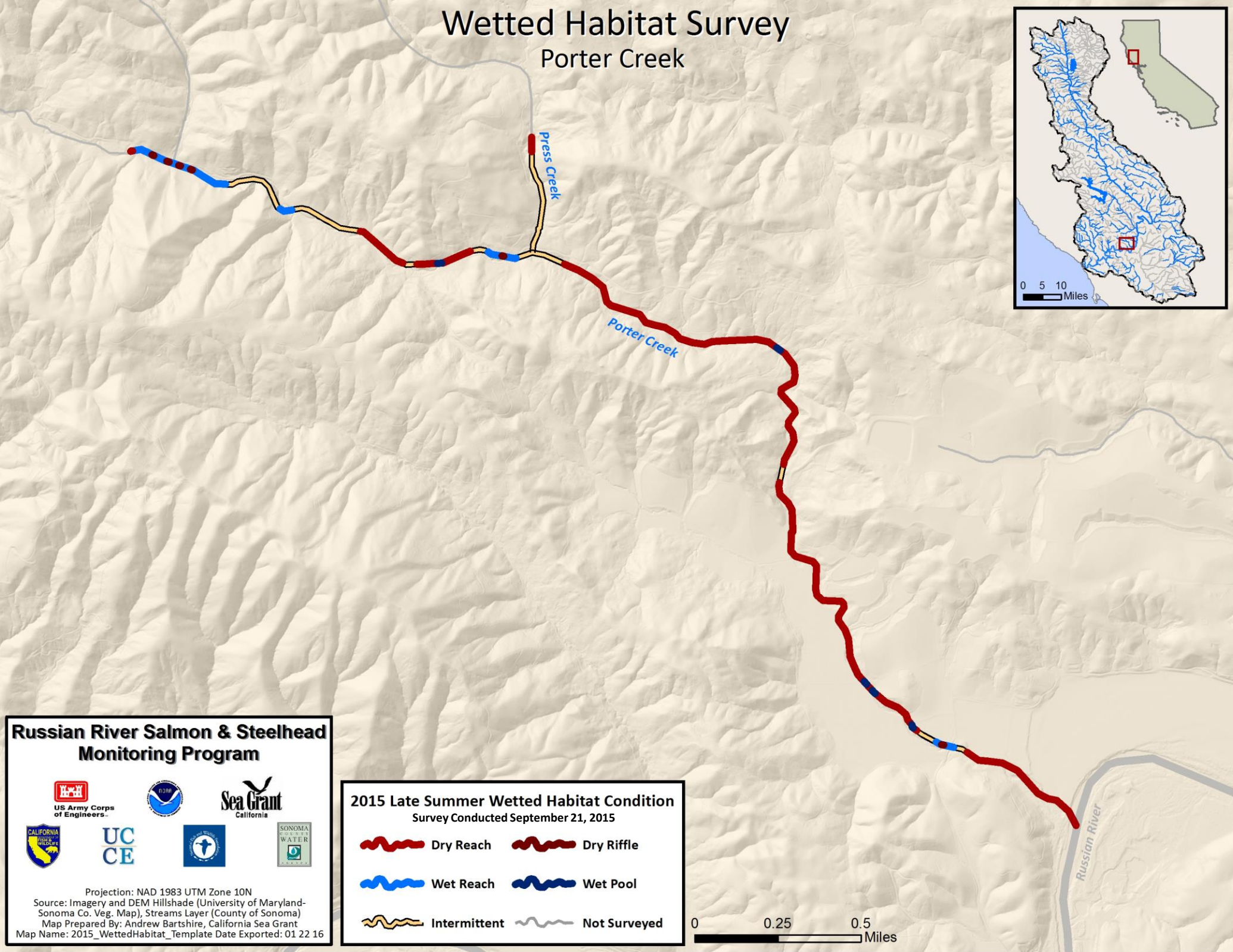
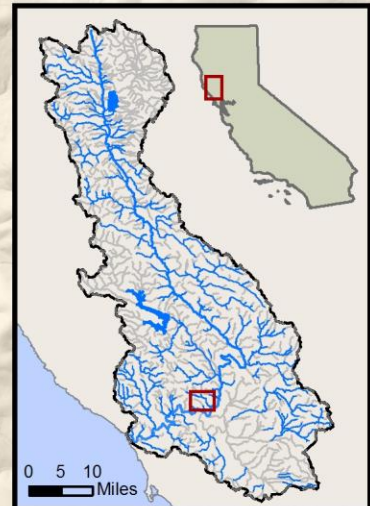
• 0	○ 11-25	○ 51-100
○ 1-10	○ 26-50	○ 100+

Wet   
 Dry   
 Intermittent











# Wetted Habitat Survey Porter Creek

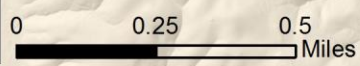


## Russian River Salmon & Steelhead Monitoring Program



### 2015 Late Summer Wetted Habitat Condition Survey Conducted September 21, 2015

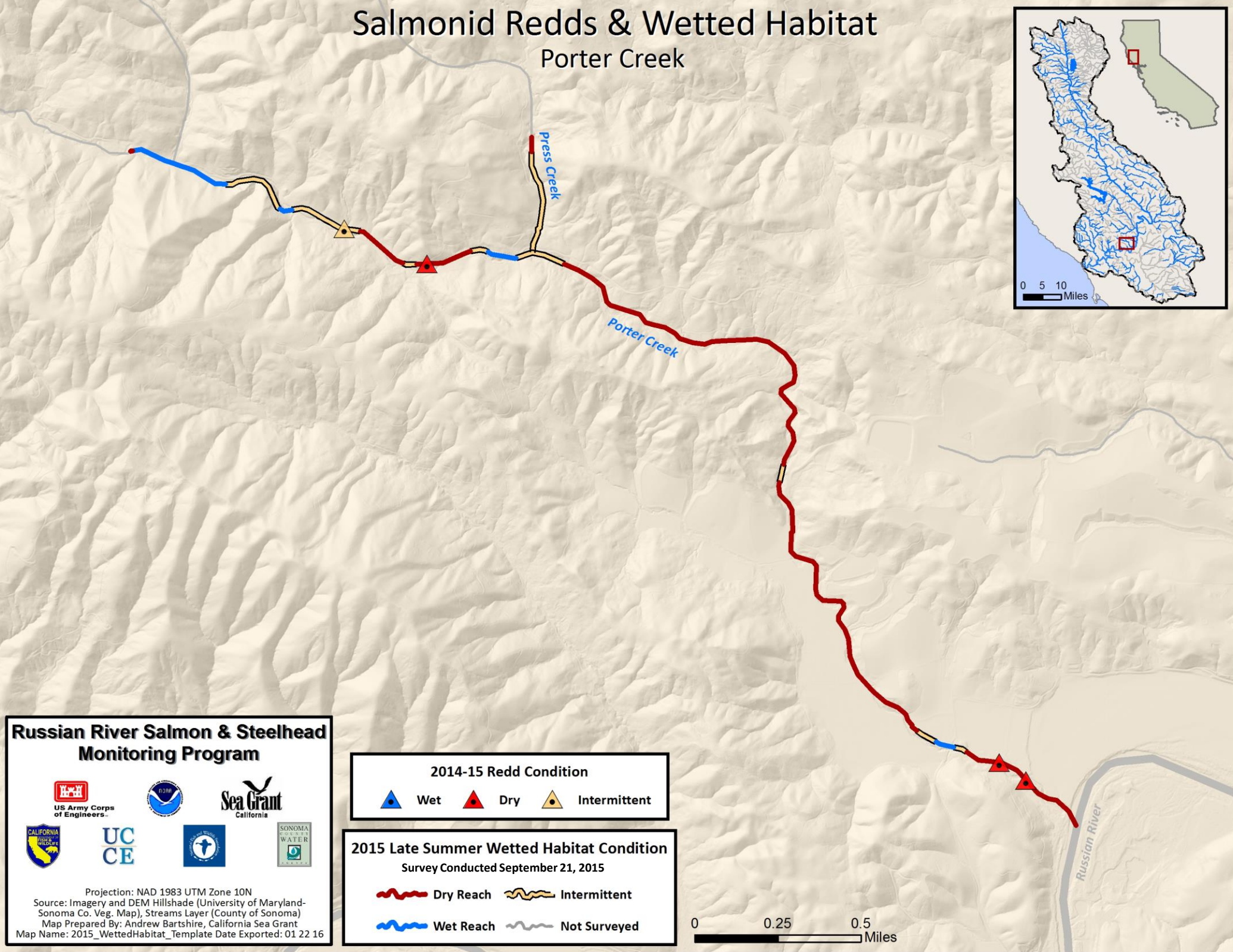
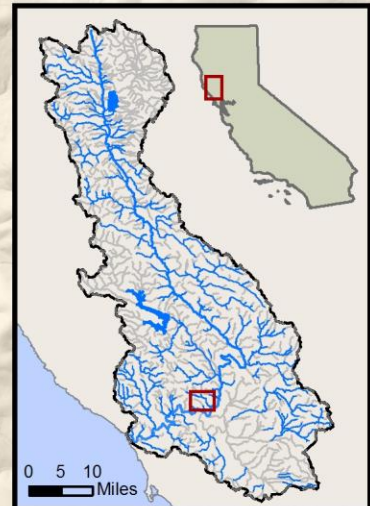
-  Dry Reach
-  Dry Riffle
-  Wet Reach
-  Wet Pool
-  Intermittent
-  Not Surveyed



Projection: NAD 1983 UTM Zone 10N  
 Source: Imagery and DEM Hillshade (University of Maryland-Sonoma Co. Veg. Map), Streams Layer (County of Sonoma)  
 Map Prepared By: Andrew Bartshire, California Sea Grant  
 Map Name: 2015\_WettedHabitat\_Template Date Exported: 01 22 16



# Salmonid Redds & Wetted Habitat Porter Creek



## Russian River Salmon & Steelhead Monitoring Program



Projection: NAD 1983 UTM Zone 10N  
 Source: Imagery and DEM Hillshade (University of Maryland-Sonoma Co. Veg. Map), Streams Layer (County of Sonoma)  
 Map Prepared By: Andrew Bartshire, California Sea Grant  
 Map Name: 2015\_WettedHabitat\_Template Date Exported: 01 22 16

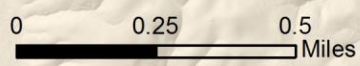
**2014-15 Redd Condition**

Wet
 Dry
 Intermittent

**2015 Late Summer Wetted Habitat Condition**  
 Survey Conducted September 21, 2015

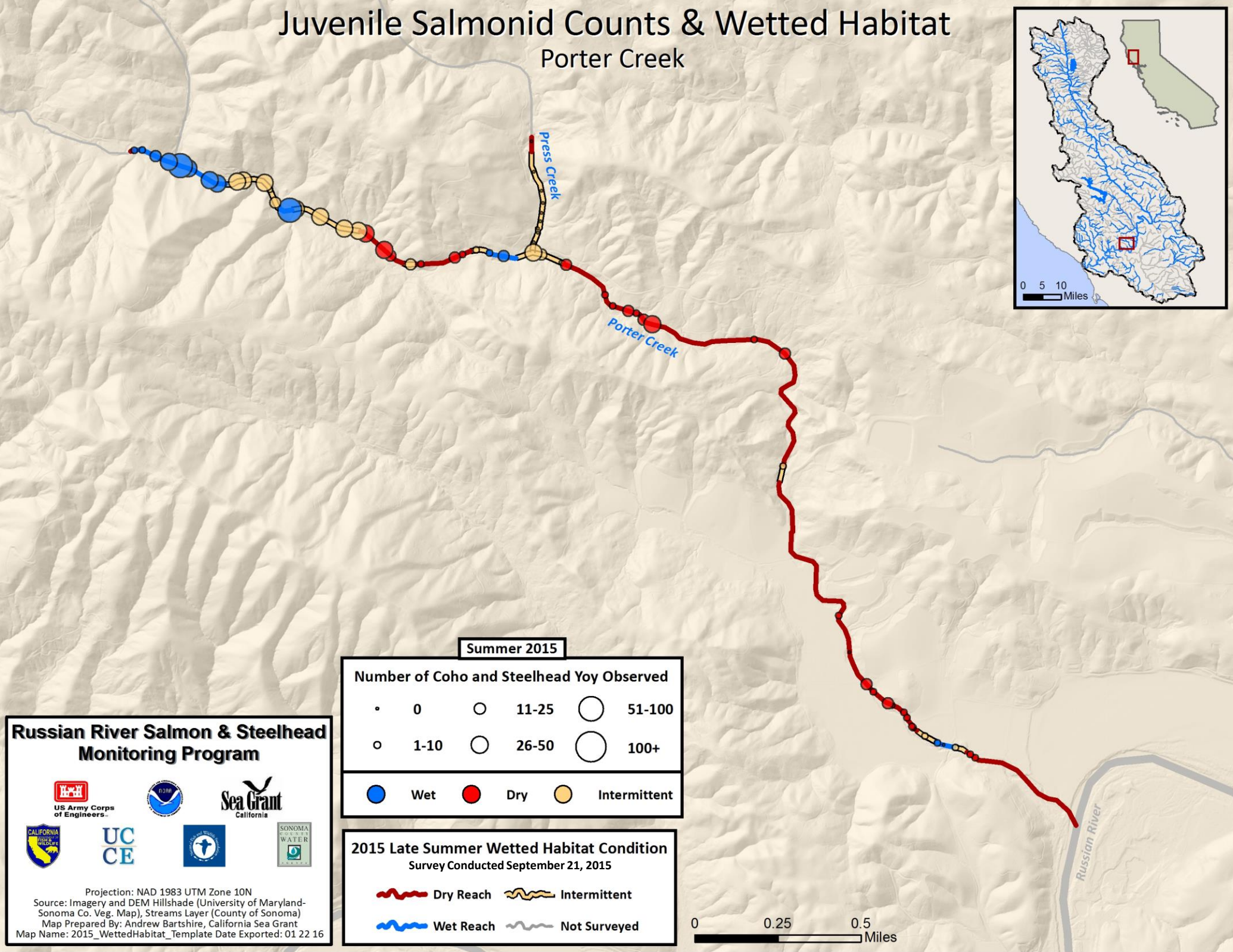
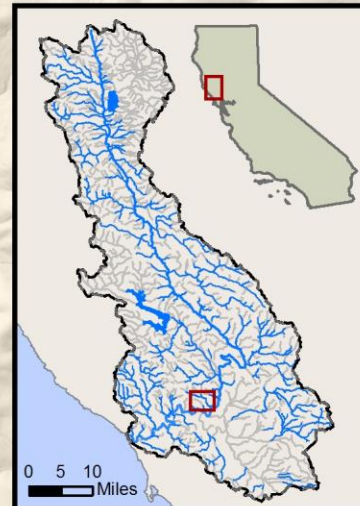
Dry Reach
 Intermittent

Wet Reach
 Not Surveyed



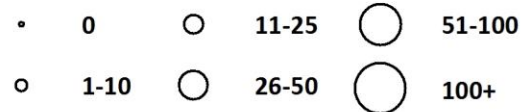


# Juvenile Salmonid Counts & Wetted Habitat Porter Creek

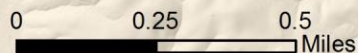


Summer 2015

Number of Coho and Steelhead Yoy Observed



2015 Late Summer Wetted Habitat Condition  
Survey Conducted September 21, 2015



## Russian River Salmon & Steelhead Monitoring Program



Projection: NAD 1983 UTM Zone 10N

Source: Imagery and DEM Hillshade (University of Maryland-Sonoma Co. Veg. Map), Streams Layer (County of Sonoma)

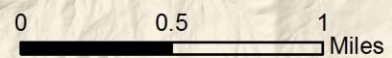
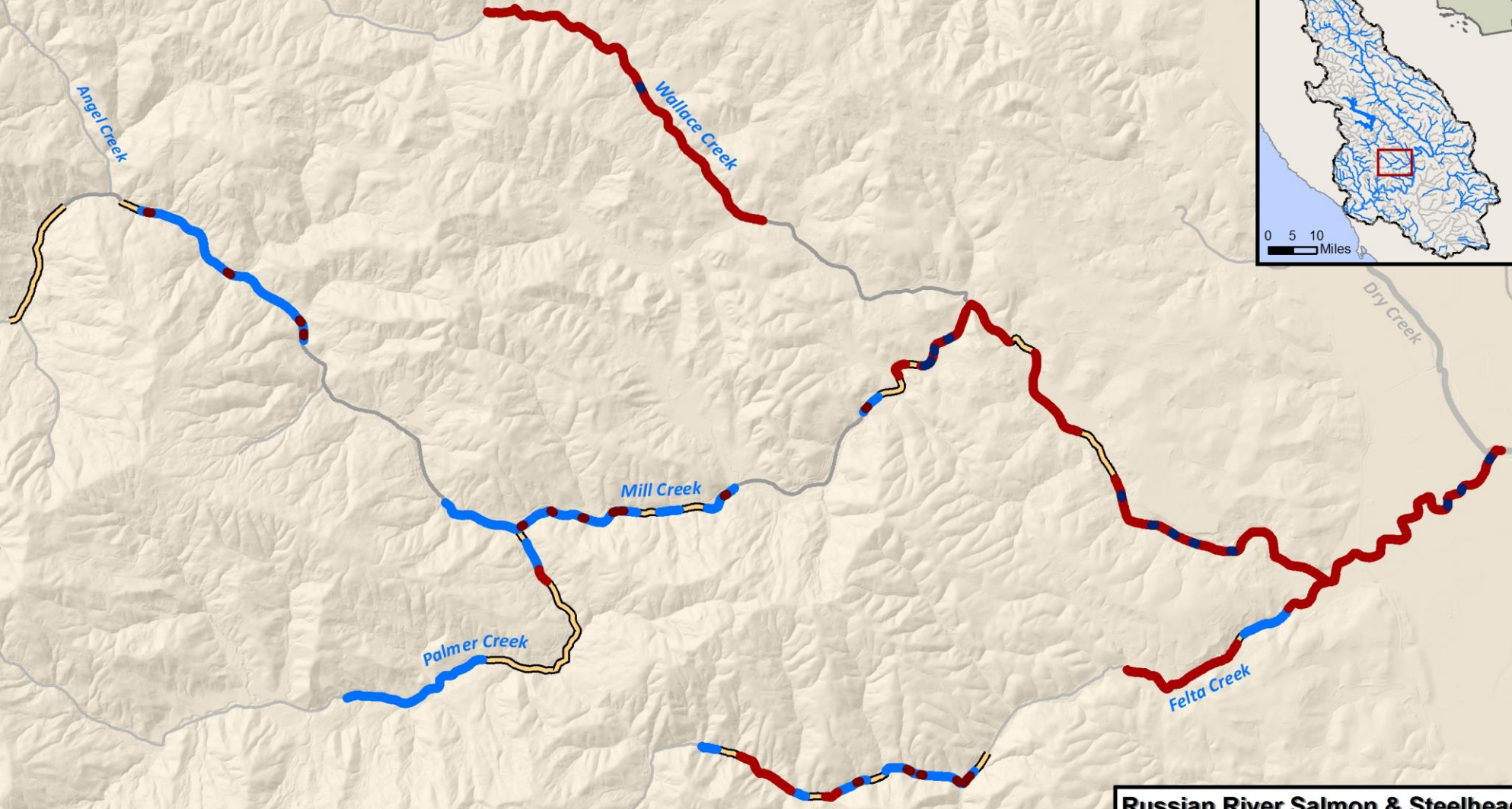
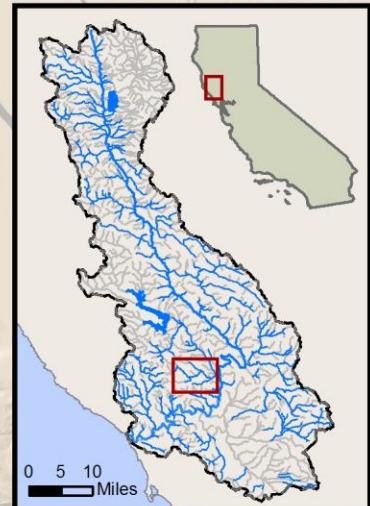
Map Prepared By: Andrew Bartshire, California Sea Grant

Map Name: 2015\_WettedHabitat\_Template Date Exported: 01 22 16









# Wetted Habitat Survey

## Mill Creek Watershed



**2015 Late Summer Wetted Habitat Condition**  
Survey Conducted September 8-22, 2015

 Dry Reach	 Dry Riffle
 Wet Reach	 Wet Pool
 Intermittent	 Not Surveyed

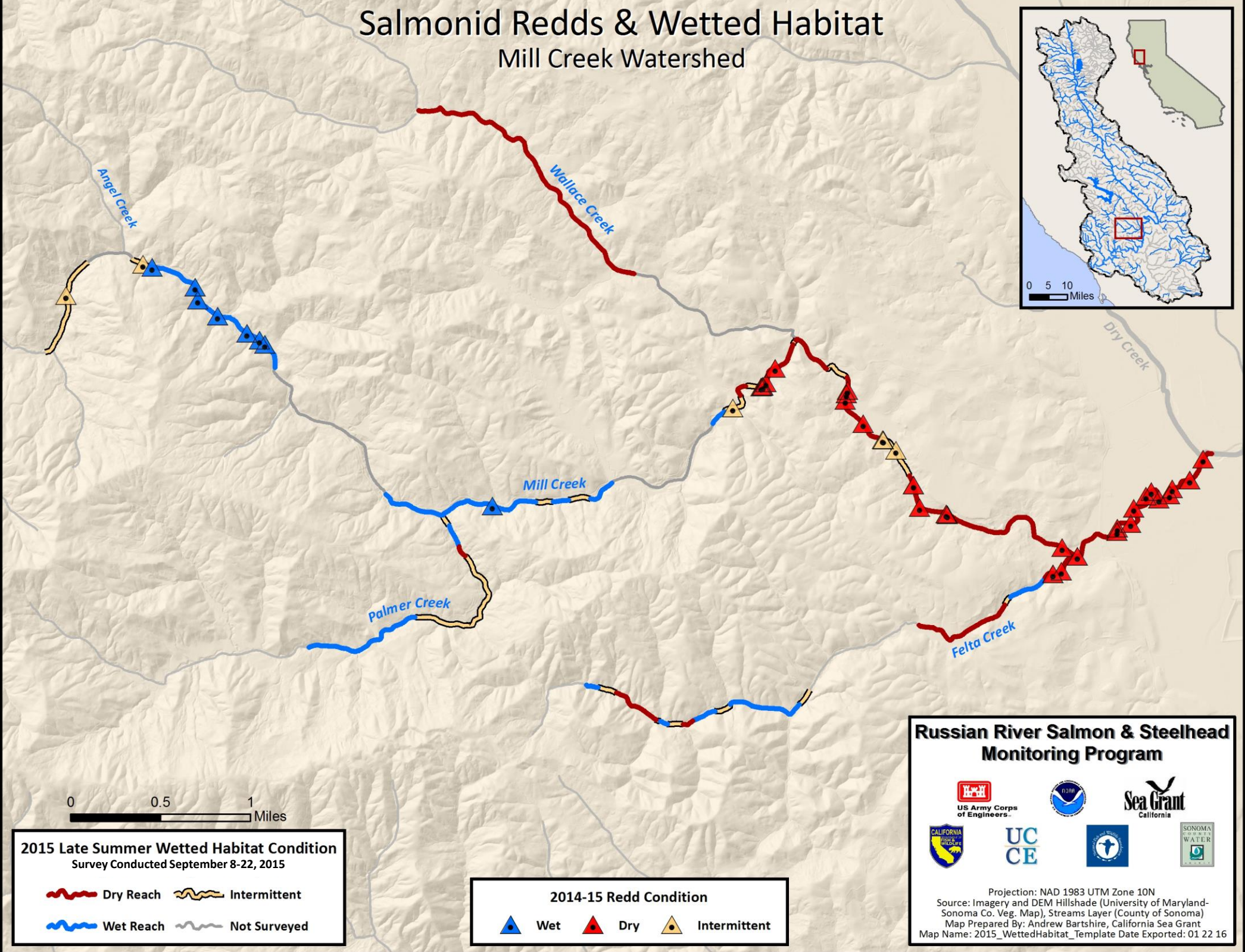
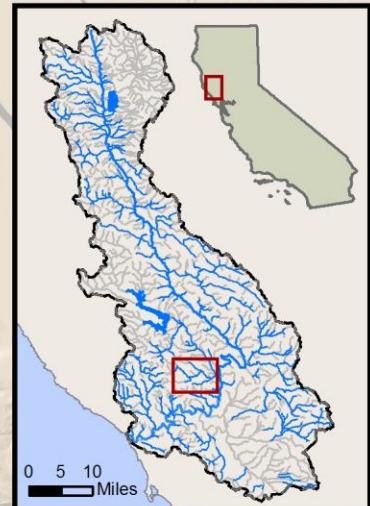
**Russian River Salmon & Steelhead Monitoring Program**



Projection: NAD 1983 UTM Zone 10N  
Source: Imagery and DEM Hillshade (University of Maryland-Sonoma Co. Veg. Map), Streams Layer (County of Sonoma)  
Map Prepared By: Andrew Bartshire, California Sea Grant  
Map Name: 2015\_WettedHabitat\_Template Date Exported: 01 22 16



# Salmonid Redds & Wetted Habitat Mill Creek Watershed



**2015 Late Summer Wetted Habitat Condition**  
Survey Conducted September 8-22, 2015

— Dry Reach    — Intermittent  
— Wet Reach    — Not Surveyed

**2014-15 Redd Condition**

▲ Wet    ▲ Dry    ▲ Intermittent

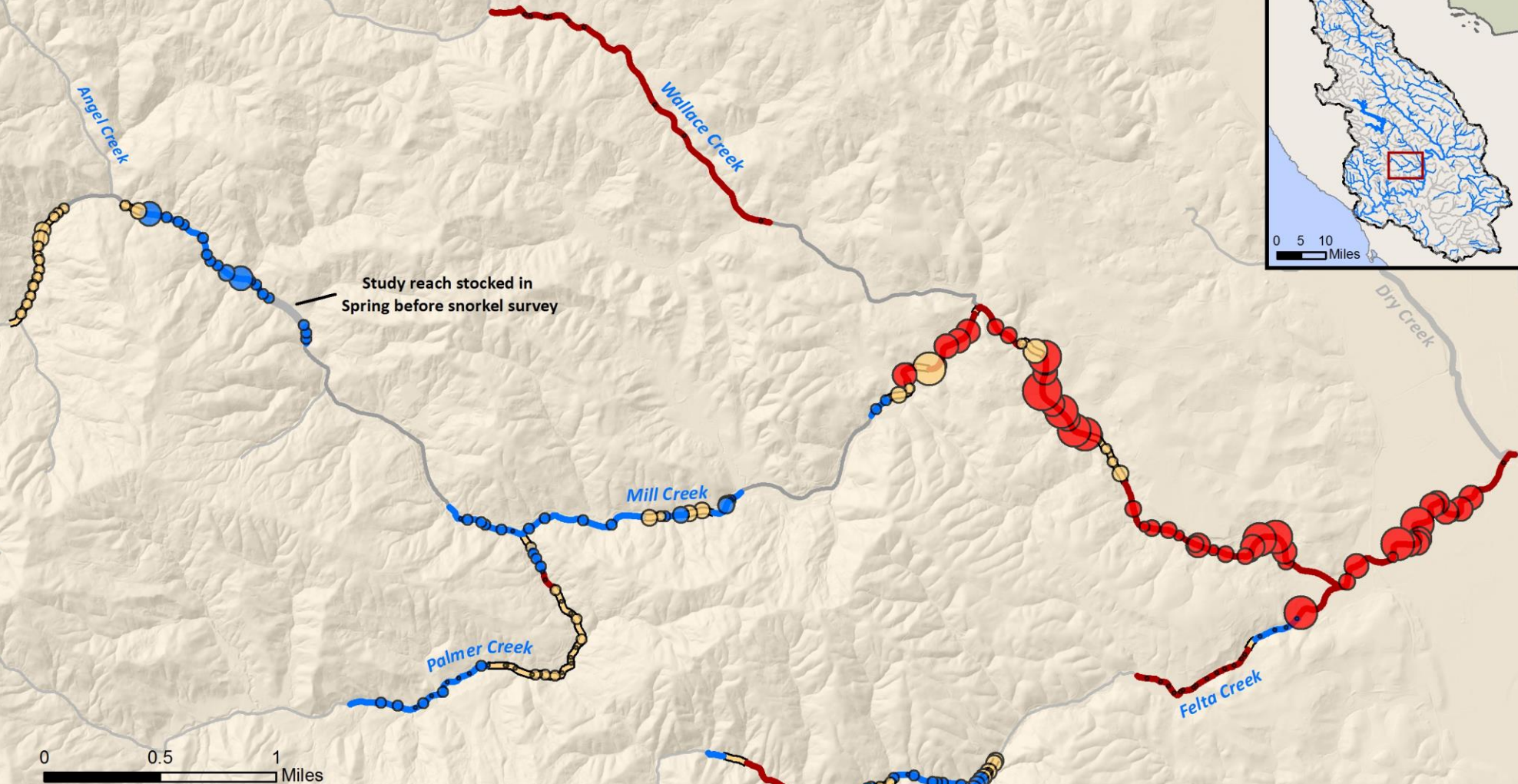
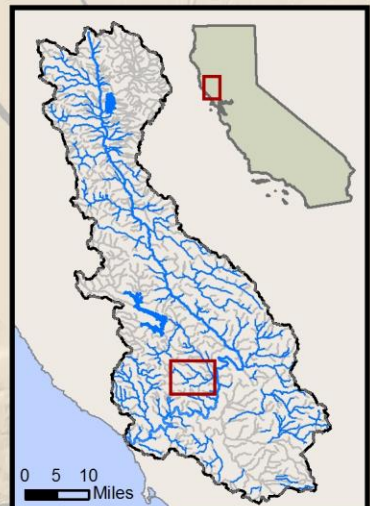
**Russian River Hillshade & Steelhead Monitoring Program**

Projection: NAD 1983 UTM Zone 10N  
 Source: Imagery and DEM Hillshade (University of Maryland-Sonoma Co. Veg. Map), Streams Layer (County of Sonoma)  
 Map Prepared By: Andrew Bartshire, California Sea Grant  
 Map Name: 2015\_WettedHabitat\_Template Date Exported: 01 22 16



# Juvenile Salmonid Counts & Wetted Habitat

## Mill Creek



**Russian River Salmon & Steelhead Monitoring Program**

Projection: NAD 1983 UTM Zone 10N  
 Source: Imagery and DEM Hillshade (University of Maryland-Sonoma Co. Veg. Map), Streams Layer (County of Sonoma)  
 Map Prepared By: Andrew Bartshire, California Sea Grant  
 Map Name: 2015\_WettedHabitat\_Template Date Exported: 01 25 16

**Summer 2015**

**Number of Coho and Steelhead Yoy Observed**

• 0	○ 11-25	○ 51-100
○ 1-10	○ 26-50	○ 100+

● Wet	● Dry	● Intermittent
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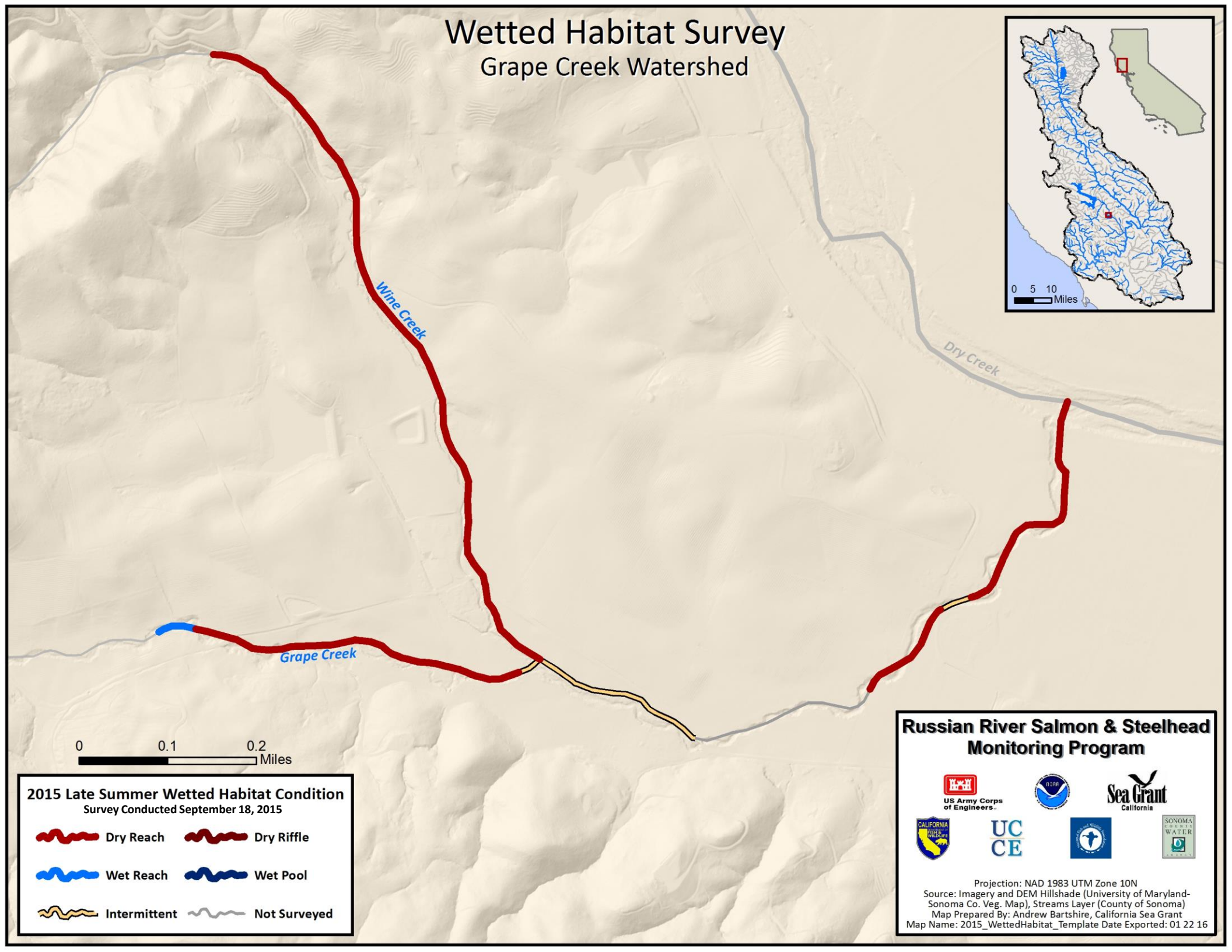
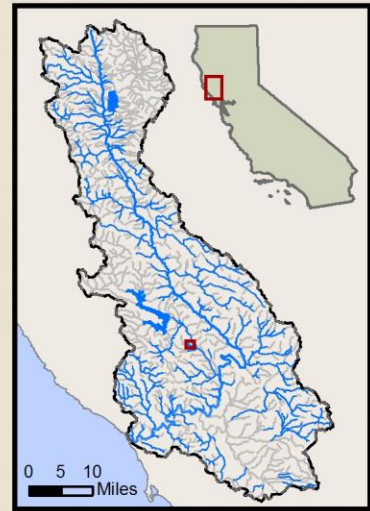
**2015 Late Summer Wetted Habitat Condition**  
 Survey Conducted September 8-22, 2015

Dry Reach	Intermittent
Wet Reach	Not Surveyed









# Wetted Habitat Survey

## Grape Creek Watershed



0 0.1 0.2 Miles

**2015 Late Summer Wetted Habitat Condition**  
Survey Conducted September 18, 2015

-  Dry Reach
-  Dry Riffle
-  Wet Reach
-  Wet Pool
-  Intermittent
-  Not Surveyed

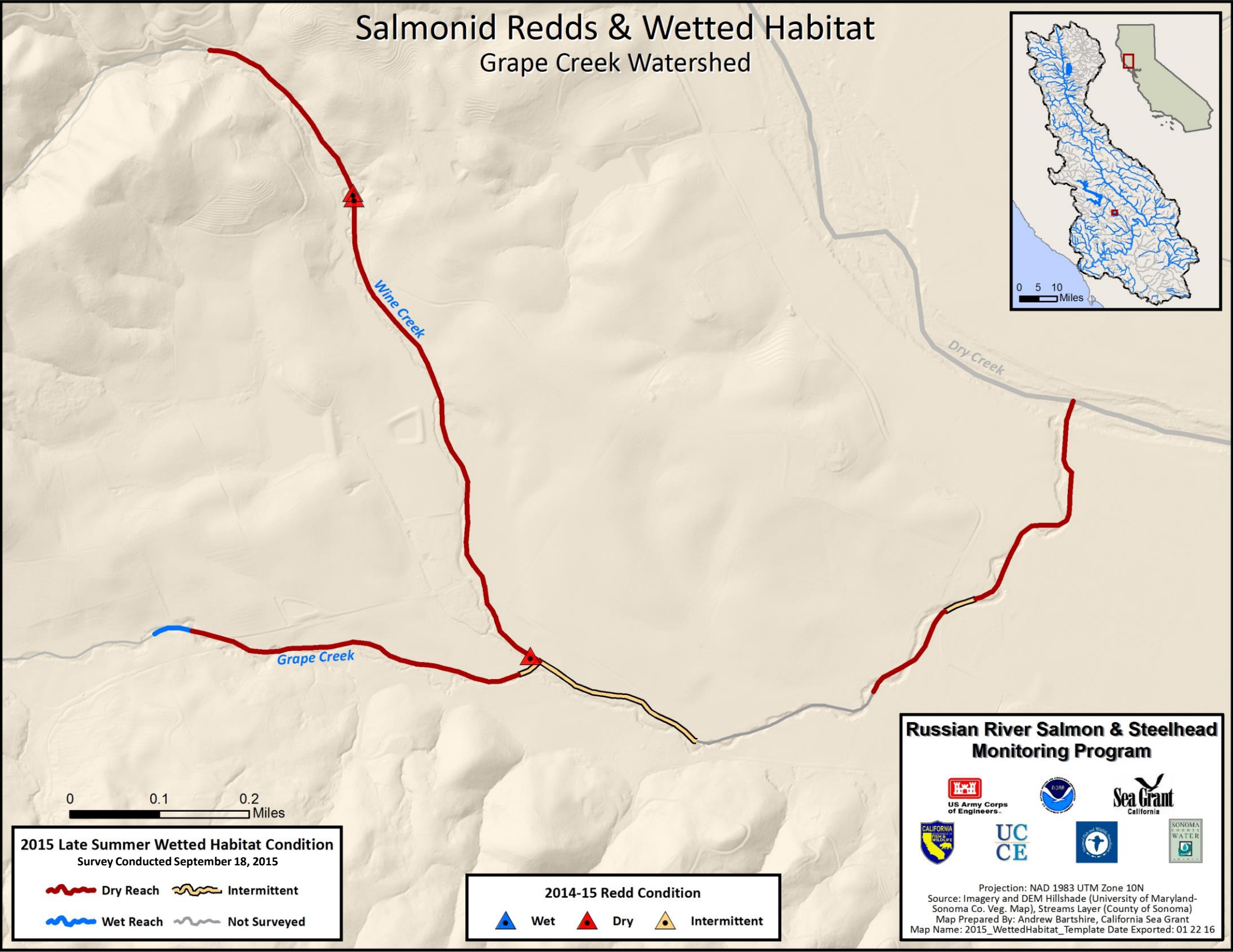
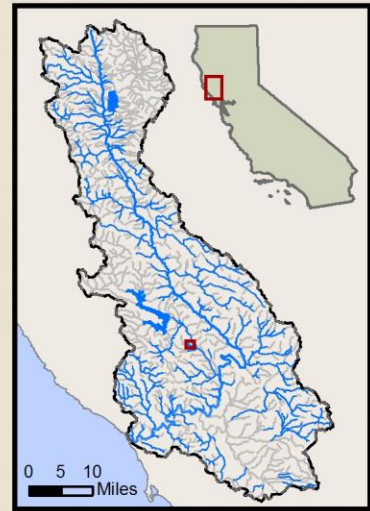
### Russian River Salmon & Steelhead Monitoring Program



Projection: NAD 1983 UTM Zone 10N  
Source: Imagery and DEM Hillshade (University of Maryland-Sonoma Co. Veg. Map), Streams Layer (County of Sonoma)  
Map Prepared By: Andrew Bartshire, California Sea Grant  
Map Name: 2015\_WettedHabitat\_Template Date Exported: 01 22 16



# Salmonid Redds & Wetted Habitat Grape Creek Watershed



**2015 Late Summer Wetted Habitat Condition**  
Survey Conducted September 18, 2015

Dry Reach	Intermittent
Wet Reach	Not Surveyed

**2014-15 Redd Condition**

Wet	Dry	Intermittent
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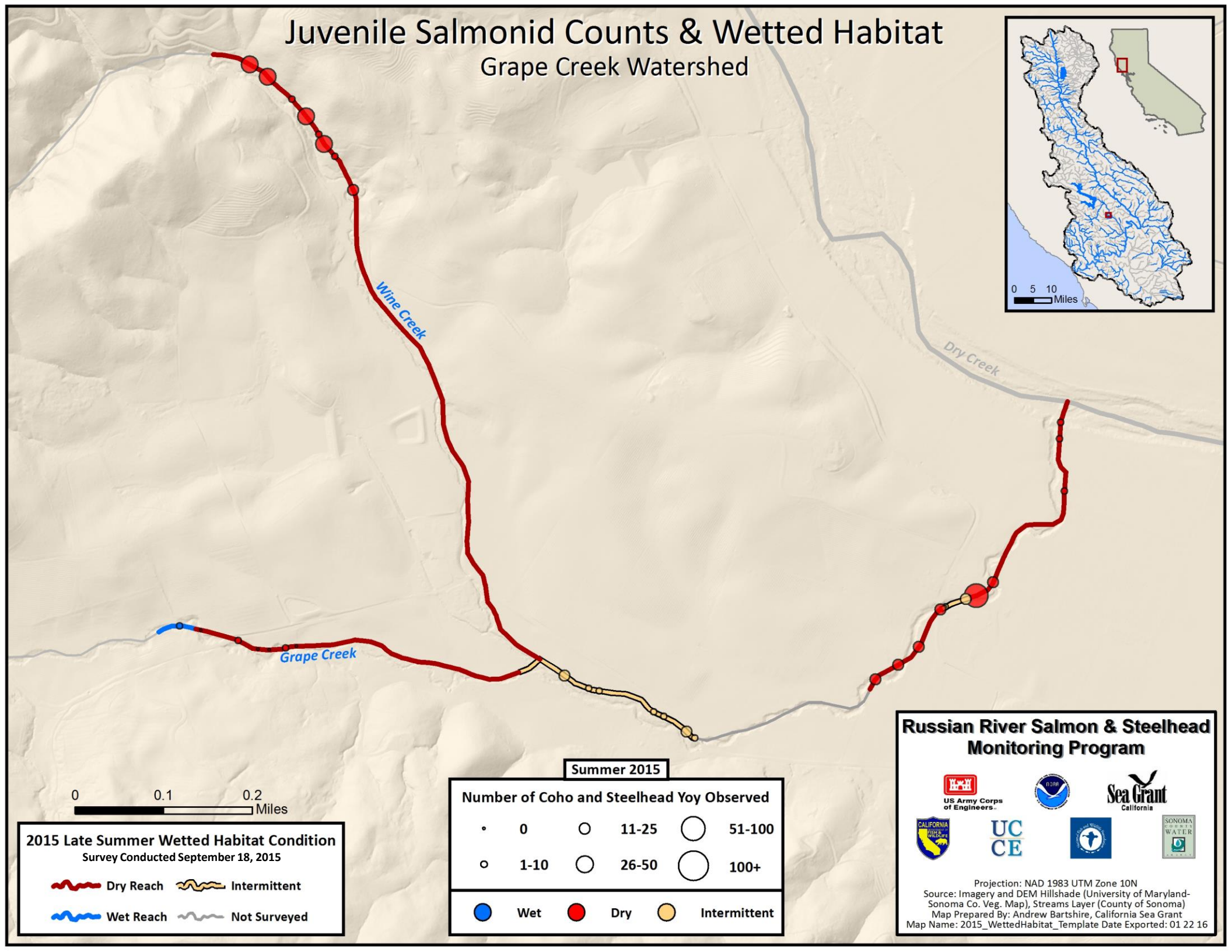
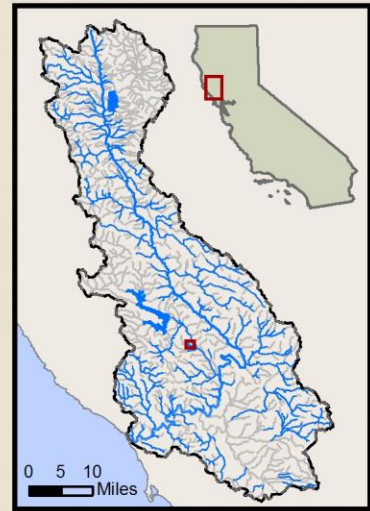
**Russian River Salmon & Steelhead Monitoring Program**


Projection: NAD 1983 UTM Zone 10N  
Source: Imagery and DEM Hillshade (University of Maryland-Sonoma Co. Veg. Map), Streams Layer (County of Sonoma)  
Map Prepared By: Andrew Bartshire, California Sea Grant  
Map Name: 2015\_WettedHabitat\_Template Date Exported: 01 22 16



# Juvenile Salmonid Counts & Wetted Habitat

## Grape Creek Watershed



0 0.1 0.2 Miles

**2015 Late Summer Wetted Habitat Condition**  
Survey Conducted September 18, 2015

Dry Reach   
 Intermittent  
 Wet Reach   
 Not Surveyed

**Summer 2015**

**Number of Coho and Steelhead Yoy Observed**

• 0	○ 11-25	○ 51-100
○ 1-10	○ 26-50	○ 100+

Wet   
 Dry   
 Intermittent

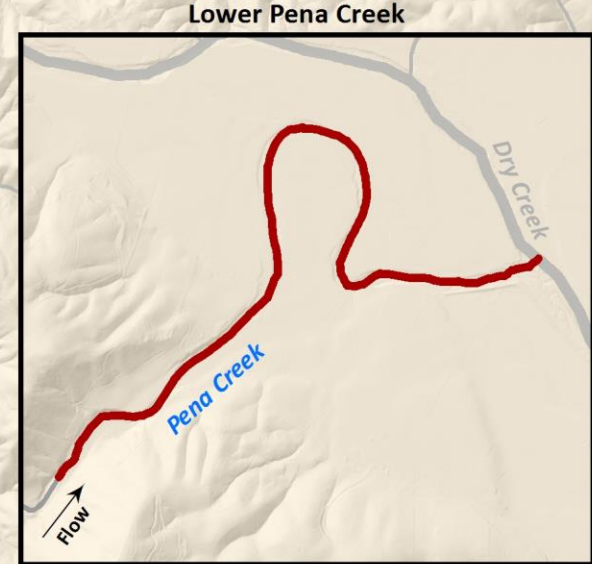
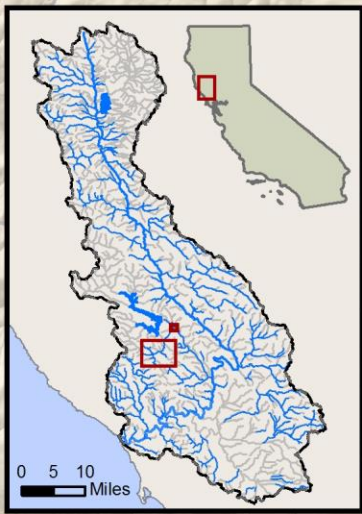
**Russian River Salmon & Steelhead Monitoring Program**

Projection: NAD 1983 UTM Zone 10N  
 Source: Imagery and DEM Hillshade (University of Maryland-Sonoma Co. Veg. Map), Streams Layer (County of Sonoma)  
 Map Prepared By: Andrew Bartshire, California Sea Grant  
 Map Name: 2015\_WettedHabitat\_Template Date Exported: 01 22 16



# Wetted Habitat Survey

## Pena Creek



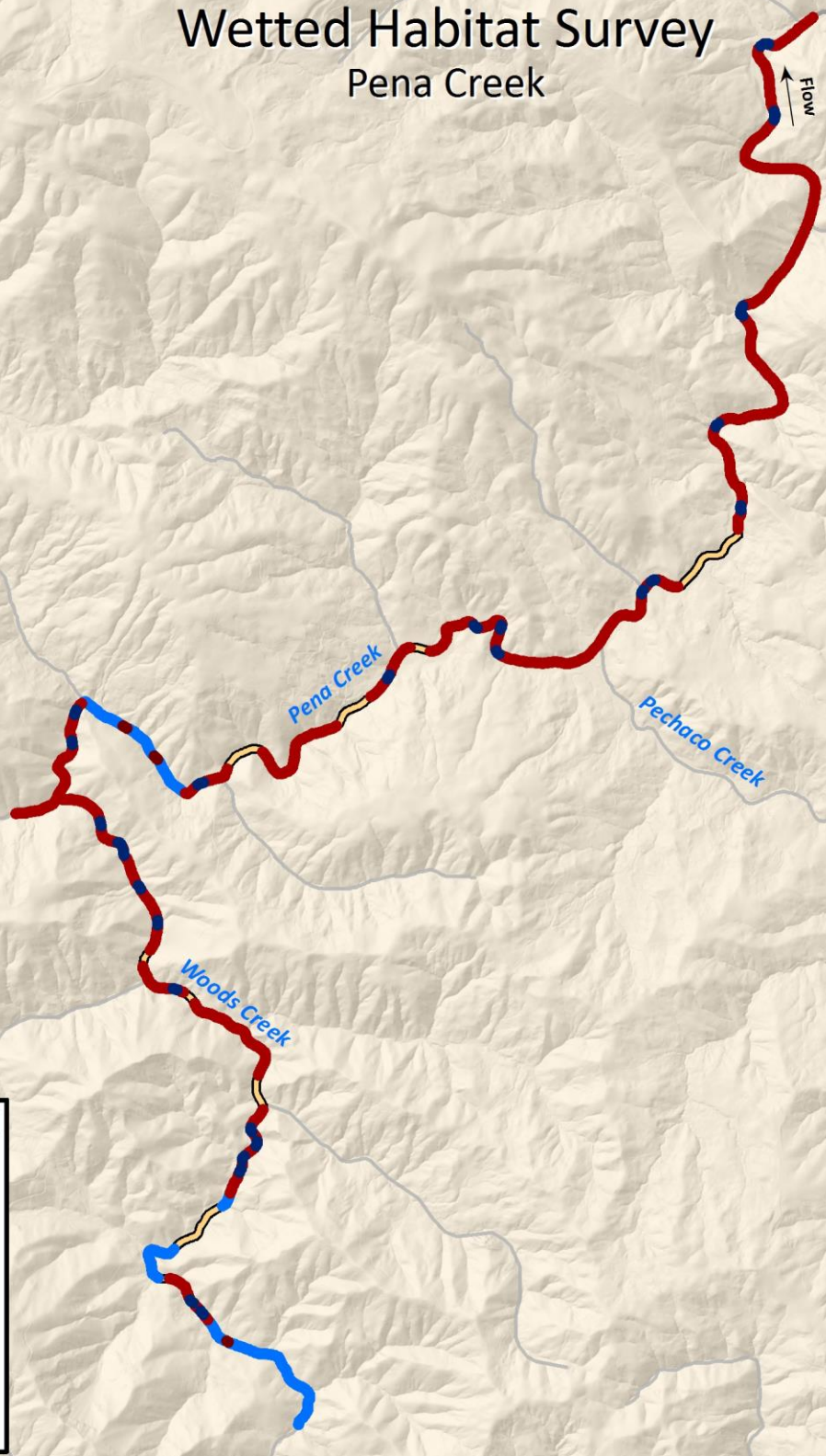
0 0.5 1 Miles

**Russian River Salmon & Steelhead Monitoring Program**

Projection: NAD 1983 UTM Zone 10N  
 Source: Imagery and DEM Hillshade (University of Maryland-Sonoma Co. Veg. Map), Streams Layer (County of Sonoma)  
 Map Prepared By: Andrew Bartshire, California Sea Grant  
 Map Name: 2015\_WettedHabitat\_Template Date Exported: 01 25 16

**2015 Late Summer Wetted Habitat Condition**  
 Survey Conducted September 15-16, 2015

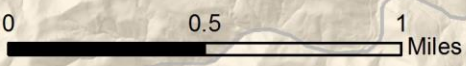
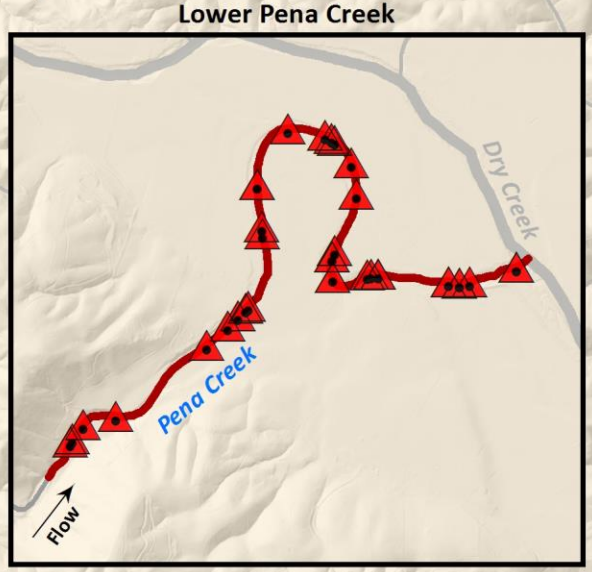
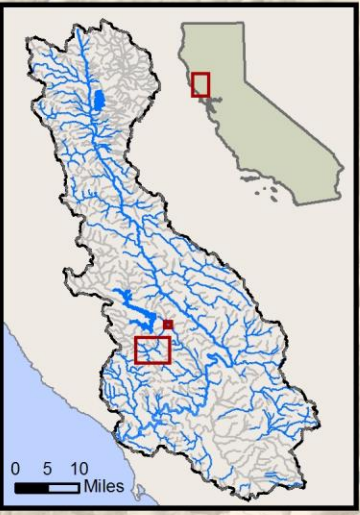
	Dry Reach		Dry Riffle
	Wet Reach		Wet Pool
	Intermittent		Not Surveyed





# Salmonid Redds & Wetted Habitat

## Pena Creek



**Russian River Salmon & Steelhead Monitoring Program**

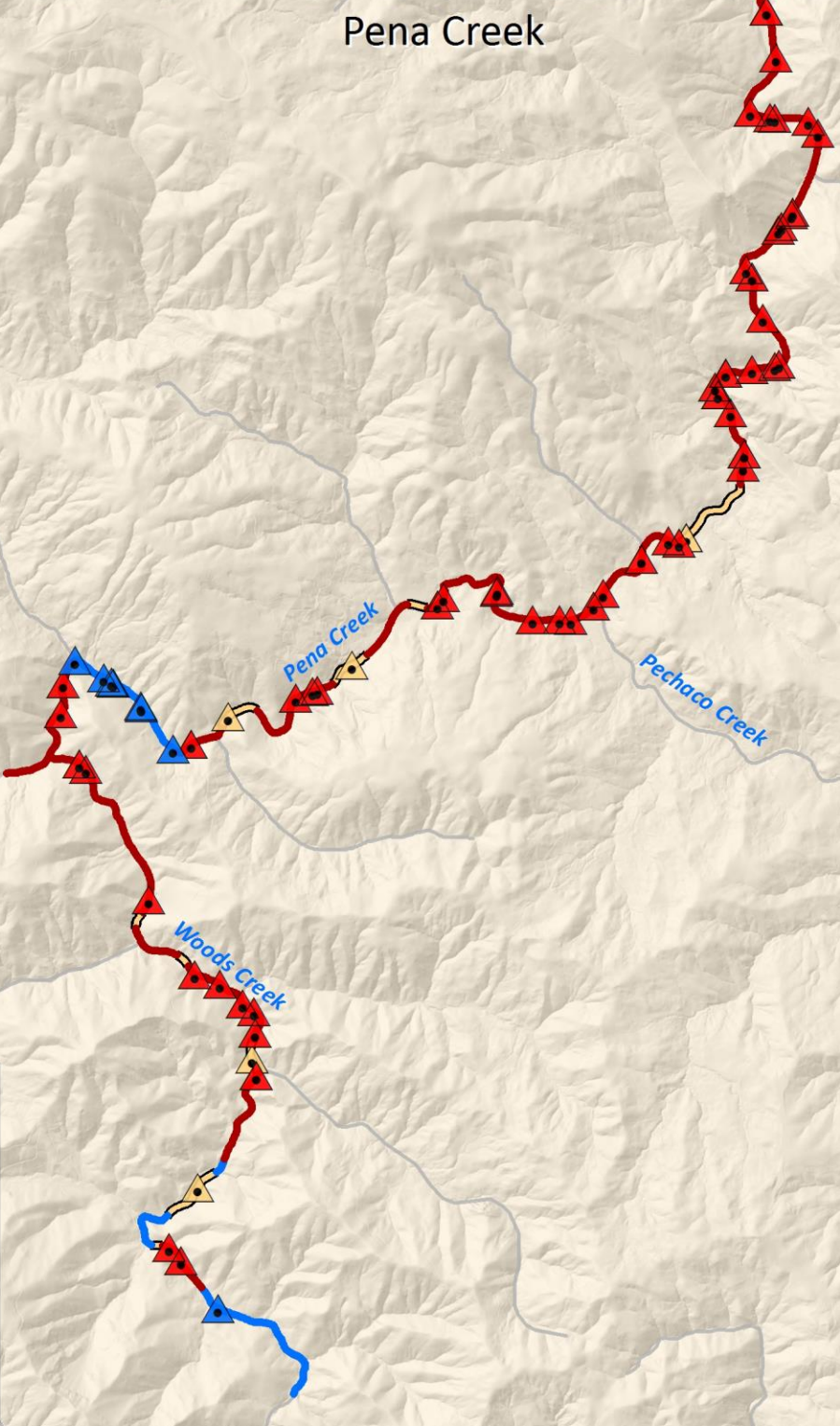
Projection: NAD 1983 UTM Zone 10N  
Source: Imagery and DEM Hillshade (University of Maryland-Sonoma Co. Veg. Map), Streams Layer (County of Sonoma)  
Map Prepared By: Andrew Bartshire, California Sea Grant  
Map Name: 2015\_WettedHabitat\_Template Date Exported: 01 25 16

**2014-15 Redd Condition**

	Wet		Dry		Intermittent
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**2015 Late Summer Wetted Habitat Condition**  
Survey Conducted September 15-16, 2015

	Dry Reach		Intermittent
	Wet Reach		Not Surveyed

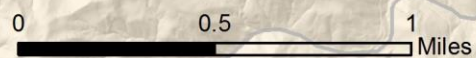
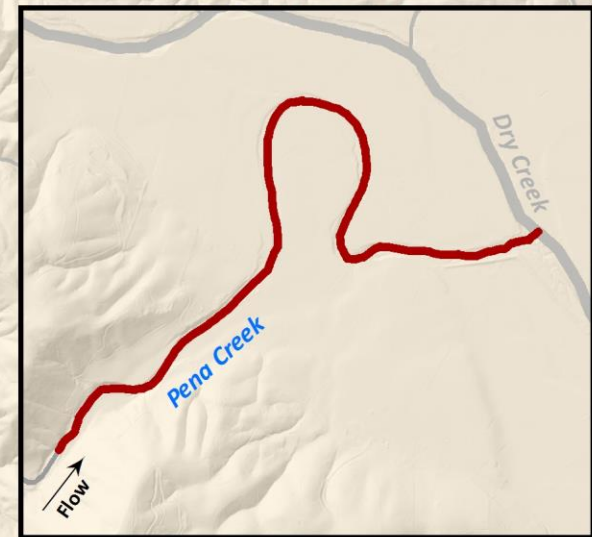
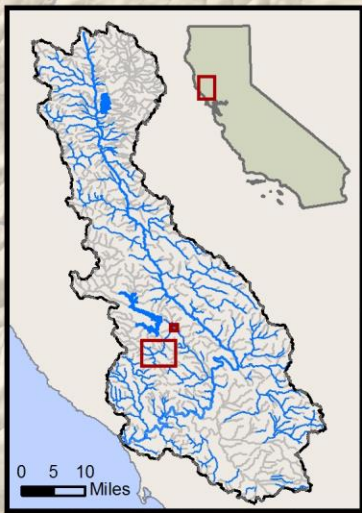




# Juvenile Salmonid Counts & Wetted Habitat

Pena Creek

Lower Pena Creek



**Russian River Salmon & Steelhead Monitoring Program**

Projection: NAD 1983 UTM Zone 10N  
 Source: Imagery and DEM Hillshade (University of Maryland-Sonoma Co. Veg. Map), Streams Layer (County of Sonoma)  
 Map Prepared By: Andrew Bartshire, California Sea Grant  
 Map Name: 2015\_WettedHabitat\_Template Date Exported: 01 25 16

**Summer 2015**

Number of Coho and Steelhead Yoy Observed

• 0	○ 11-25	○ 51-100
○ 1-10	○ 26-50	○ 100+

● Wet ● Dry ● Intermittent

**2015 Late Summer Wetted Habitat Condition**  
 Survey Conducted September 15-16, 2015

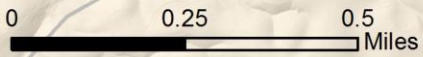
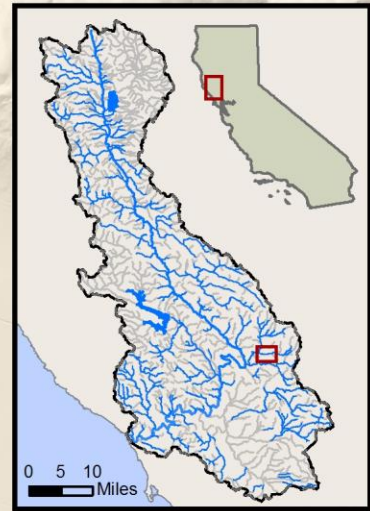
Dry Reach   
 Intermittent  
 Wet Reach   
 Not Surveyed





# Wetted Habitat Survey

## Redwood Creek









### Russian River Salmon & Steelhead Monitoring Program



Projection: NAD 1983 UTM Zone 10N  
Source: Imagery and DEM Hillshade (University of Maryland-Sonoma Co. Veg. Map), Streams Layer (County of Sonoma)  
Map Prepared By: Andrew Bartshire, California Sea Grant  
Map Name: 2015\_WettedHabitat\_Template Date Exported: 01 25 16

#### 2015 Late Summer Wetted Habitat Condition

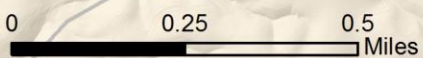
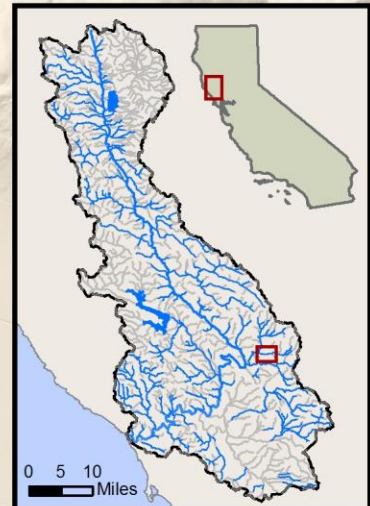
Survey Conducted September 24, 2015

 Dry Reach	 Dry Riffle
 Wet Reach	 Wet Pool
 Intermittent	 Not Surveyed



# Salmonid Redds & Wetted Habitat

## Redwood Creek



**Russian River Salmon & Steelhead Monitoring Program**

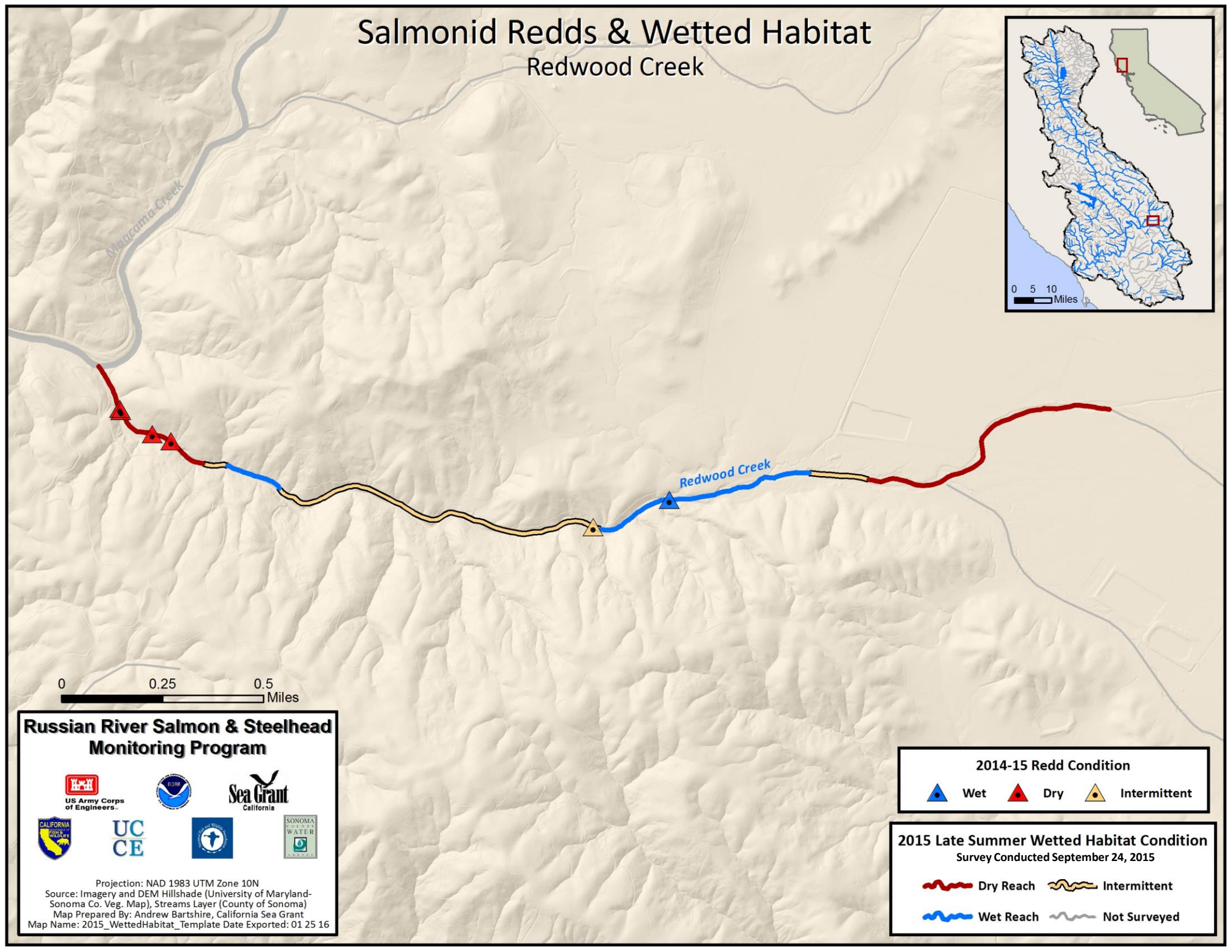
Projection: NAD 1983 UTM Zone 10N  
Source: Imagery and DEM Hillshade (University of Maryland-Sonoma Co. Veg. Map), Streams Layer (County of Sonoma)  
Map Prepared By: Andrew Bartshire, California Sea Grant  
Map Name: 2015\_WettedHabitat\_Template Date Exported: 01 25 16

**2014-15 Redd Condition**

	Wet		Dry		Intermittent
--	-----	--	-----	--	--------------

**2015 Late Summer Wetted Habitat Condition**  
Survey Conducted September 24, 2015

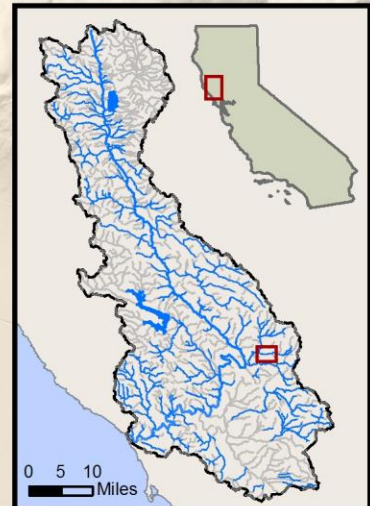
	Dry Reach		Intermittent
	Wet Reach		Not Surveyed





# Juvenile Salmonid Counts & Wetted Habitat

## Redwood Creek



0 0.25 0.5 Miles

### Russian River Salmon & Steelhead Monitoring Program



Projection: NAD 1983 UTM Zone 10N  
 Source: Imagery and DEM Hillshade (University of Maryland-Sonoma Co. Veg. Map), Streams Layer (County of Sonoma)  
 Map Prepared By: Andrew Bartshire, California Sea Grant  
 Map Name: 2015\_WettedHabitat\_Template Date Exported: 01 25 16

**Summer 2015**

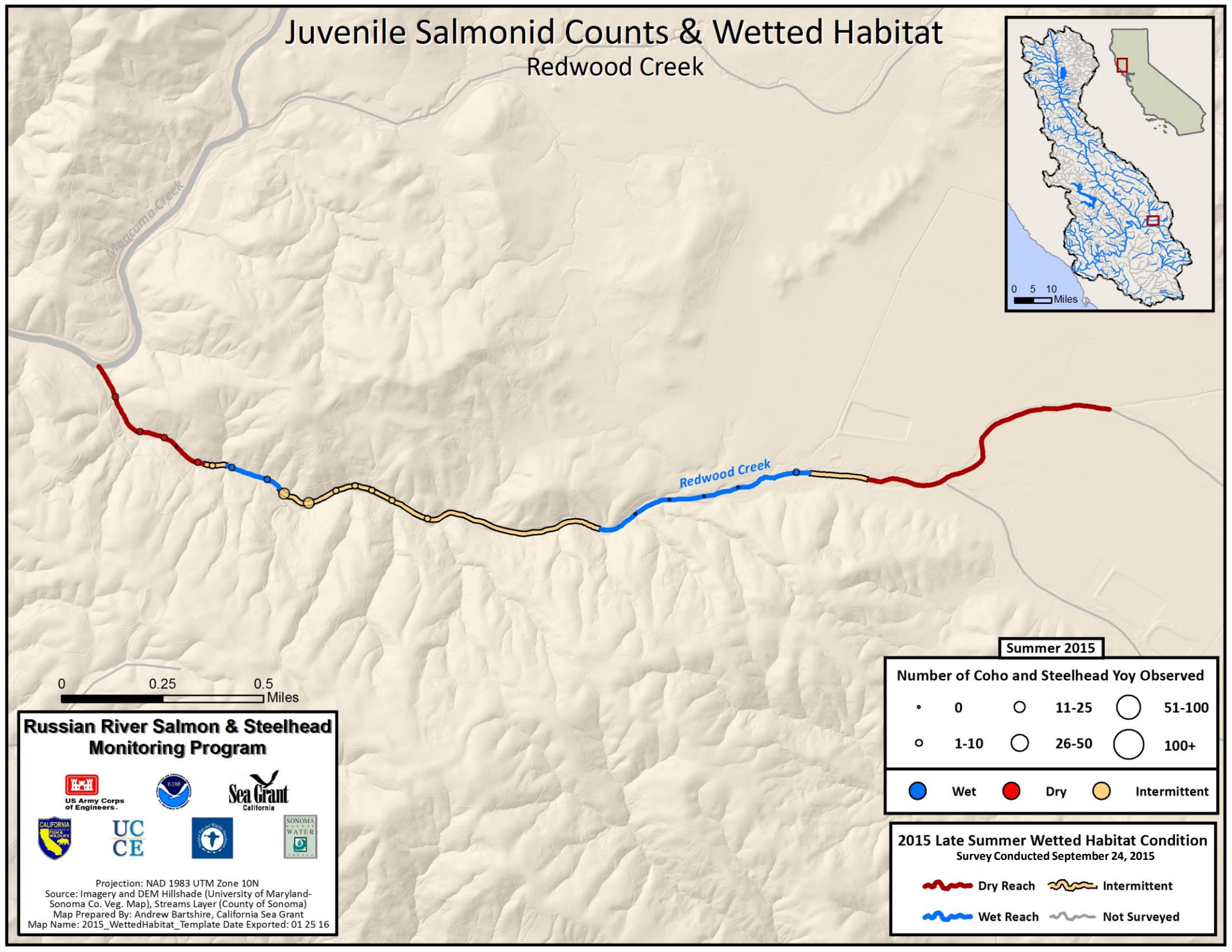
**Number of Coho and Steelhead Yoy Observed**

• 0	○ 11-25	○ 51-100
○ 1-10	○ 26-50	○ 100+

● Wet ● Dry ● Intermittent

**2015 Late Summer Wetted Habitat Condition**  
 Survey Conducted September 24, 2015

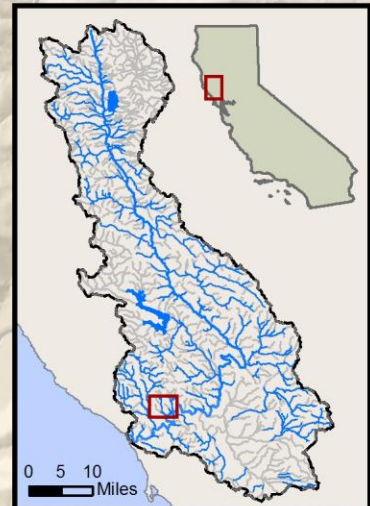
Dry Reach
 Intermittent  
 Wet Reach
 Not Surveyed











# Wetted Habitat Survey

Hulbert Creek



0 0.25 0.5 Miles

**2015 Late Summer Wetted Habitat Condition**  
Survey Conducted by CDFW September 18, 2015

 Dry Reach	 Dry Riffle
 Wet Reach	 Wet Pool
 Intermittent	 Not Surveyed



**Russian River Salmon & Steelhead Monitoring Program**

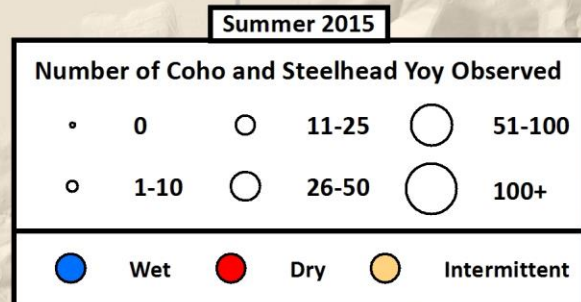
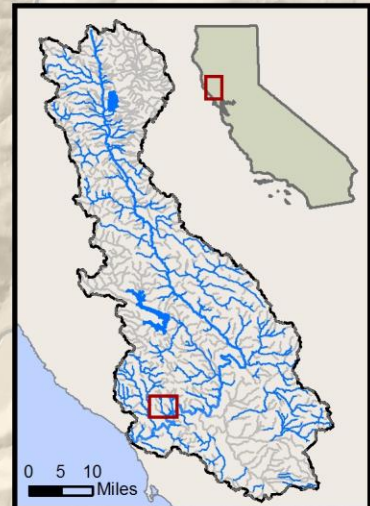


Projection: NAD 1983 UTM Zone 10N  
Source: Imagery and DEM Hillshade (University of Maryland-Sonoma Co. Veg. Map), Streams Layer (County of Sonoma)  
Map Prepared By: Andrew Bartshire, California Sea Grant  
Map Name: 2015\_WettedHabitat\_Template Date Exported: 01 22 16



# Juvenile Salmonid Counts & Wetted Habitat

Hulbert Creek



**Russian River Salmon & Steelhead Monitoring Program**

Projection: NAD 1983 UTM Zone 10N  
 Source: Imagery and DEM Hillshade (University of Maryland-Sonoma Co. Veg. Map), Streams Layer (County of Sonoma)  
 Map Prepared By: Andrew Bartshire, California Sea Grant  
 Map Name: 2015\_WettedHabitat\_Template Date Exported: 01 22 16

**2015 Late Summer Wetted Habitat Condition**  
 Survey Conducted by CDFW September 18, 2015

Dry Reach   
 Intermittent  
 Wet Reach   
 Not Surveyed

