

# 2015 McCall Fish Hatchery South Fork Salmon River Brood Collection Issues



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# 2014

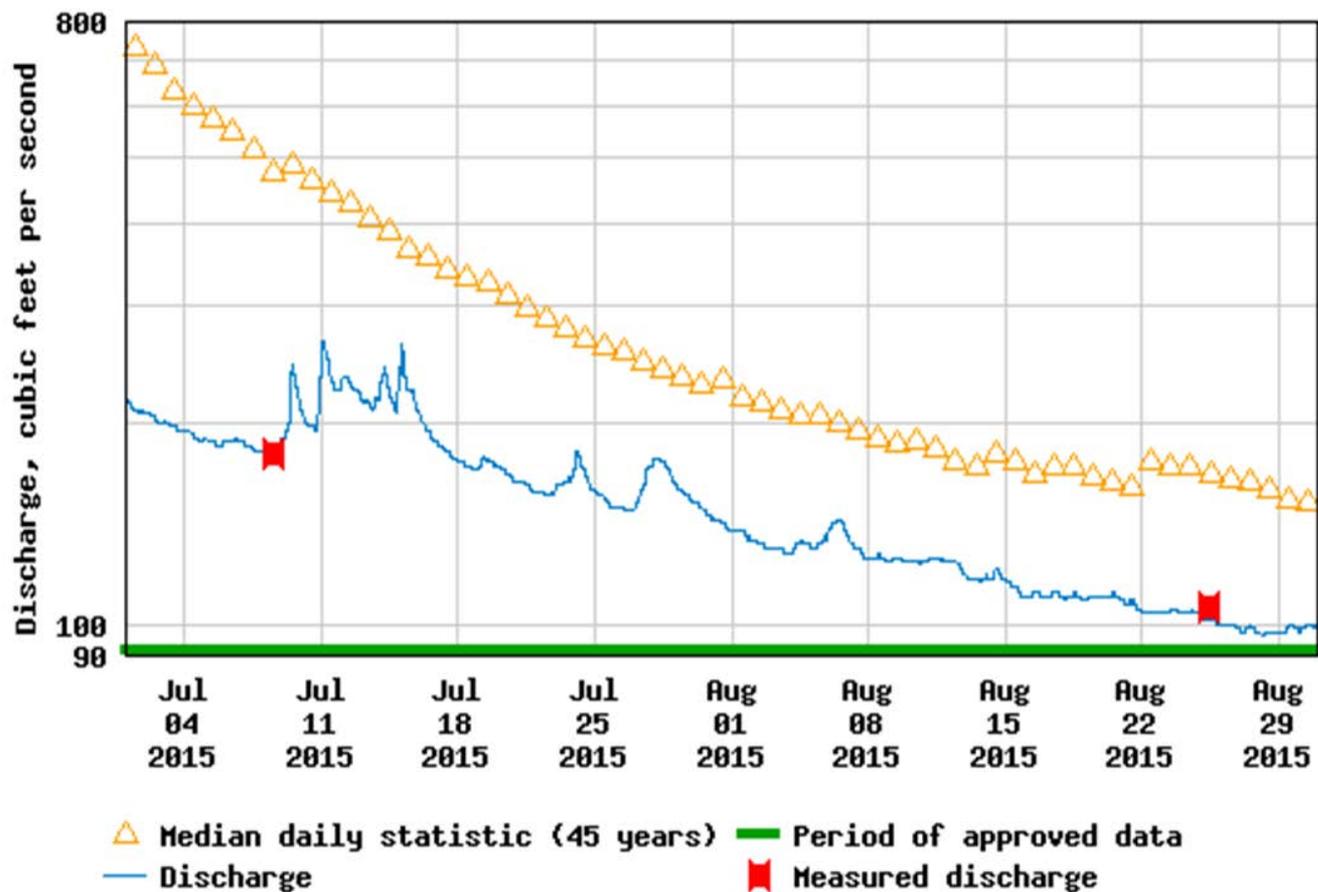
- Microburst caused 2 South Fork Salmon River Tributary streams to blow out
- High Sedimentation event caused >80% Prespawn mortality in holding ponds

# 2015 Stream Flows

- Low Snowpack in 2014/2015
- Virtually no runoff
- Lowest flows since 1941 @ USGS Krassel Gauge



## USGS 13310700 SF SALMON RIVER NR KRASSEL RANGER STATION ID



# Daily average temps, KRS PIT Array



# 2015 Water Temperature

- Mid 60's by mid June
- 76 Degrees on Jul 3
- Transport Adults off site beginning 7/2
- 40% Prespawn Mortality
- Huge surge of fish trapped 8/26-9/1

# Adult Receiving Facilities

- McCall Hatchery
  - Modified collection basin
  - Holding option not designed for adults
- Rapid River Hatchery
  - Natural Origin and Johnson Creek
- Clearwater Fish Hatchery
  - Sent adults instead of green eggs



2015/08/18

# 2015 Fire Activity

- **Cougar Rock Fire**
  - **Level 1 Incident Management Team**
  - **<3 Miles SW of Trap**
  - **~1300 Acres burned in the South Fork drainage**
  - **USFS Evacuated South Fork Trap Personnel**
  - **Impacted already modified Trap Ops**

# Fire Activity Results

- Not much left to burn
- Elevated potential for destabilized hillsides and large scale erosion events upstream of the weir

# Plans for 2016

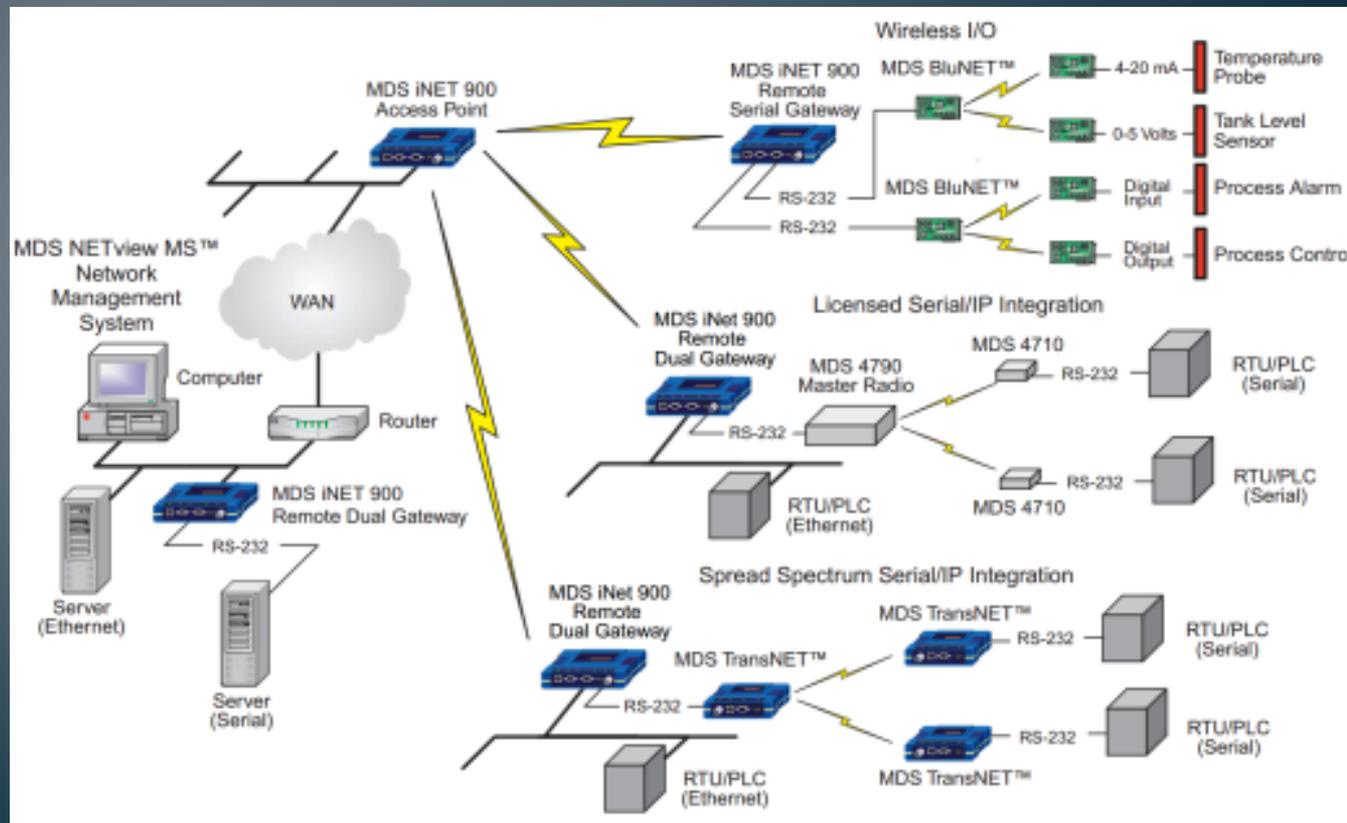
- Increased holding options at South Fork Trap
- Intensively monitor weather for low pressure and precipitation
- Instream real time turbidity monitoring

# Contingency Plan

- Hold mixed sex brood fish in one pond
  - South Fork and Johnson Creek
  - Balance of brood for other programs and surplus in other ponds
- Intensively monitor weather and stream temps
  - Visual and web based weather conditions monitoring
  - Trigger point to move fish
- Have 3 IDFG adult transport trucks and 2 NPT trucks staged at McCall
- Reservations made at Hotel Rapid River

# Turbidity Monitoring

- SUTRON Xlink Turbidity and Temp probe



# Looking Forward

2016:

- 110% Snowpack
- Firehouse Strategy
  - Watch weather and wait for the call
  - 3 trucks and drivers ready to go

# 2017 and beyond:

- Consider significant infrastructure changes