

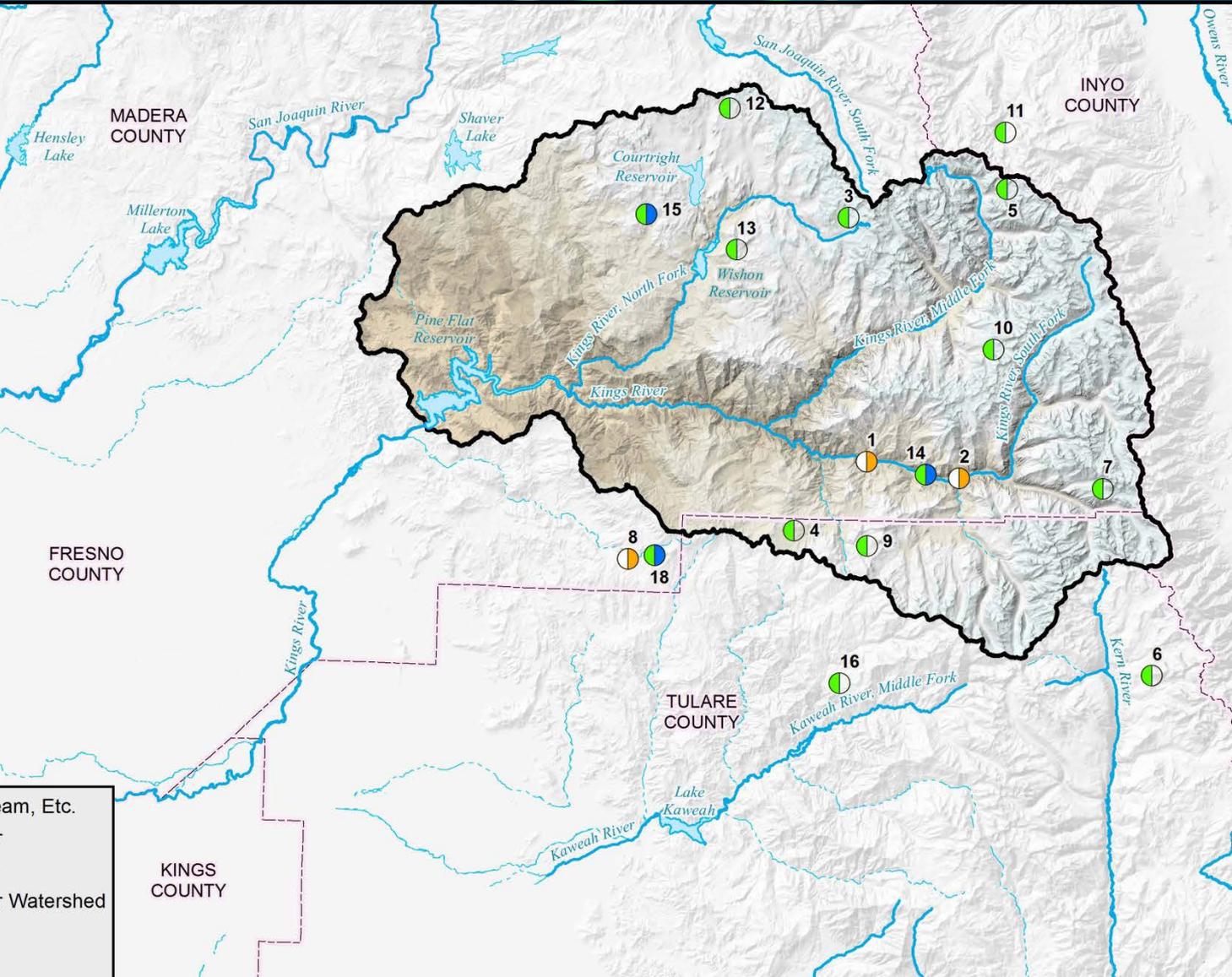
# **KINGS RIVER WATER ASSOCIATION**

## **January 2014 Snow Surveys**

**Presentation to  
CCSS 2014**

**Steven Haugen, P.E., Watermaster  
Kings River Water Association**

- Recommended New Gaging Stations:**
- 1) Grizzly Falls
  - 2) Upper Cedar Grove
- Recommended Reinstrumentation:**
- 3) Blackcap Basin (CDEC: BCB)
  - 4) Big Meadows (CDEC: BIM)
  - 5) Bishop Pass (CDEC: BSH)
  - 6) Crabree (CDEC: CBT)
  - 7) Charlotte Lake (CDEC: CRL)
  - 8) Mill Creek
  - 9) Mitchell Meadow (CDEC: MTM)
  - 10) State Lakes (CDEC: STL)
  - 11) Sawmill (CDEC: SWM)
  - 12) Upper Burnt Corral (CDEC: UBC)
  - 13) West Woodchuck Meadow (CDEC: WWC)
  - 14) Cedar Grove (RAWS: CGVC1)
  - 15) Dinkey Creek (RAWS: DKYC1)
  - 16) Giant Forest NPS (CDEC: GNF)
  - 17) Park Ridge (RAWS: PRGC1)
  - 18) Pinehurst (RAWS: PHRC1)



**New**

- Water
- Climate
- Climate and Water
- Water

**Reinstrumentation**

- Climate
- Climate and Water
- Water

Creek, Stream, Etc.  
 Major River  
 Major Lake  
 Kings River Watershed  
 County

Big Meadows - Elevation 7,600 ft – January 27, 2014



# Horse Corral Meadow

Elevation 7,600 ft



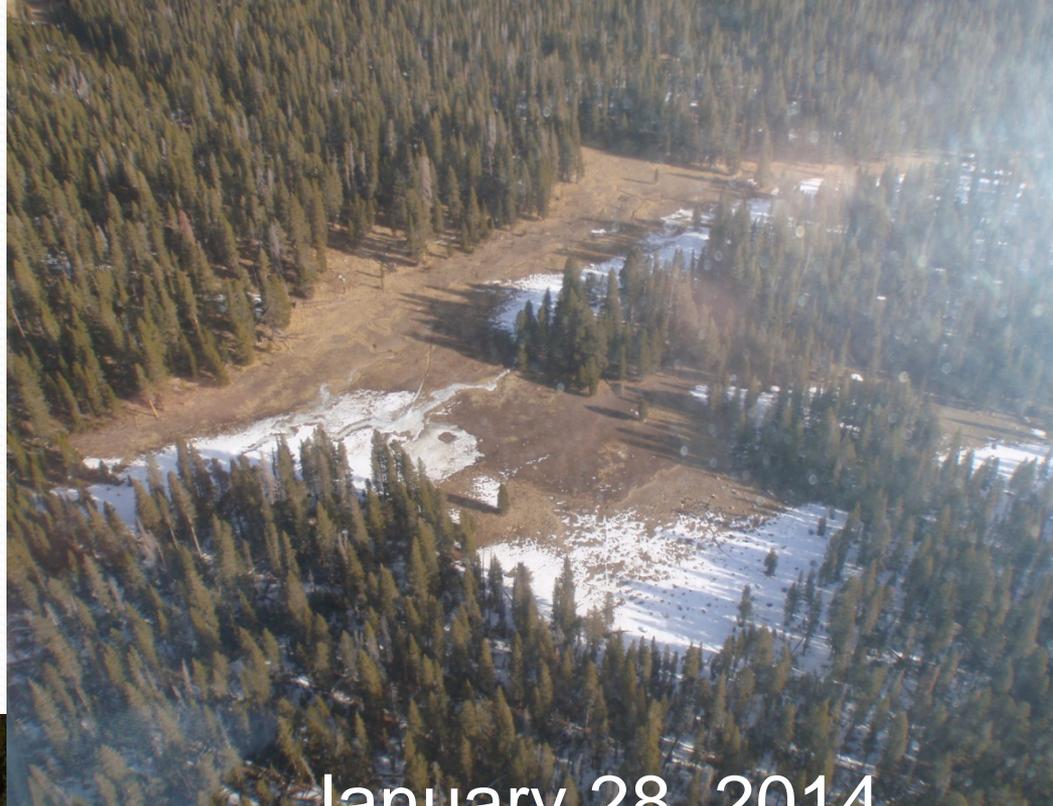
January 28, 2014

January 30, 2013

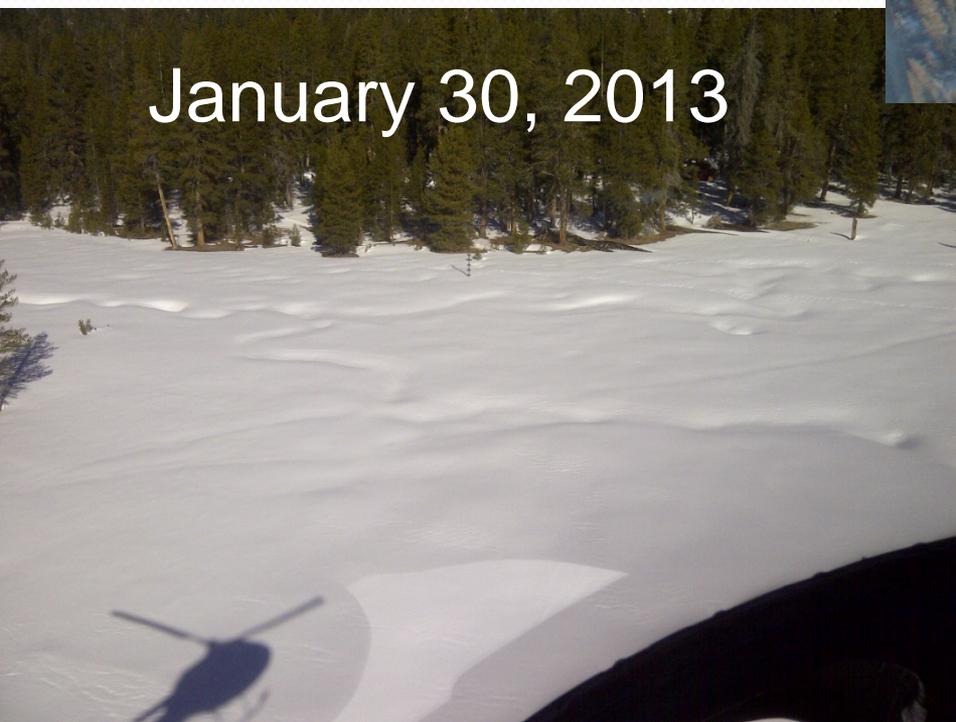


# Rowell Meadow

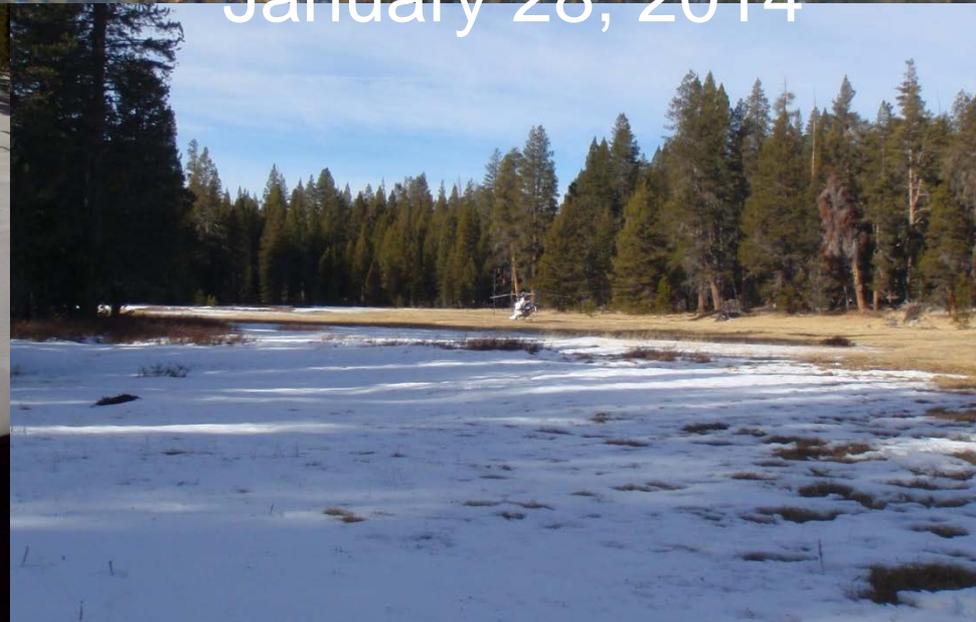
Elevation 8,850 ft



January 28, 2014

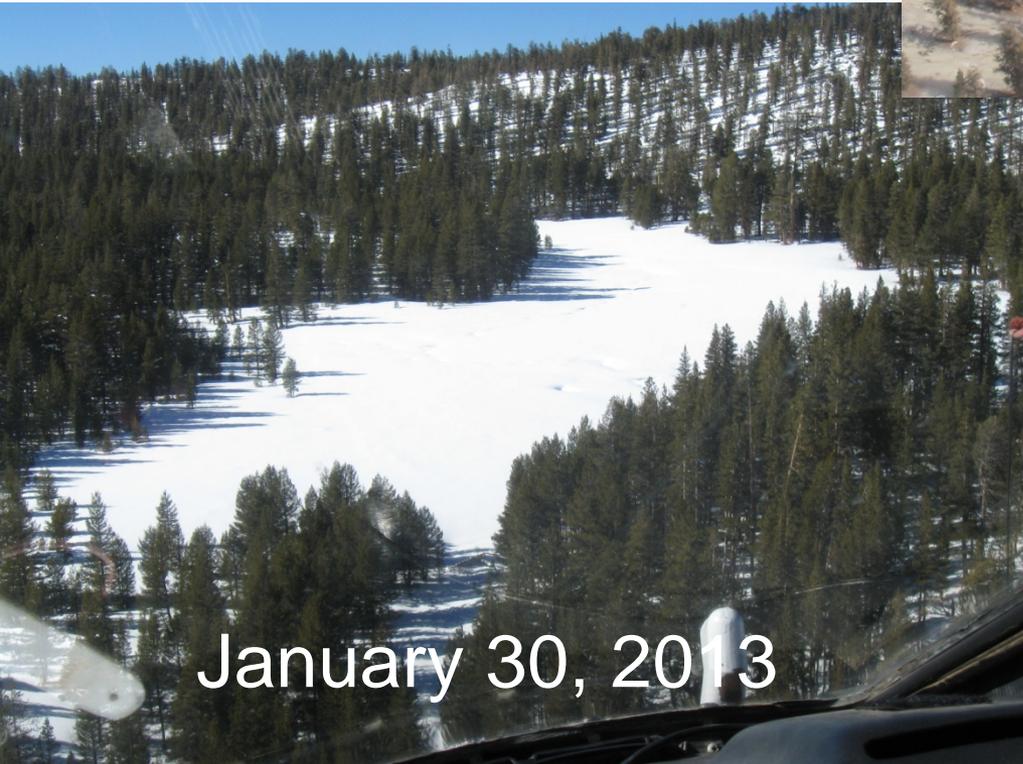
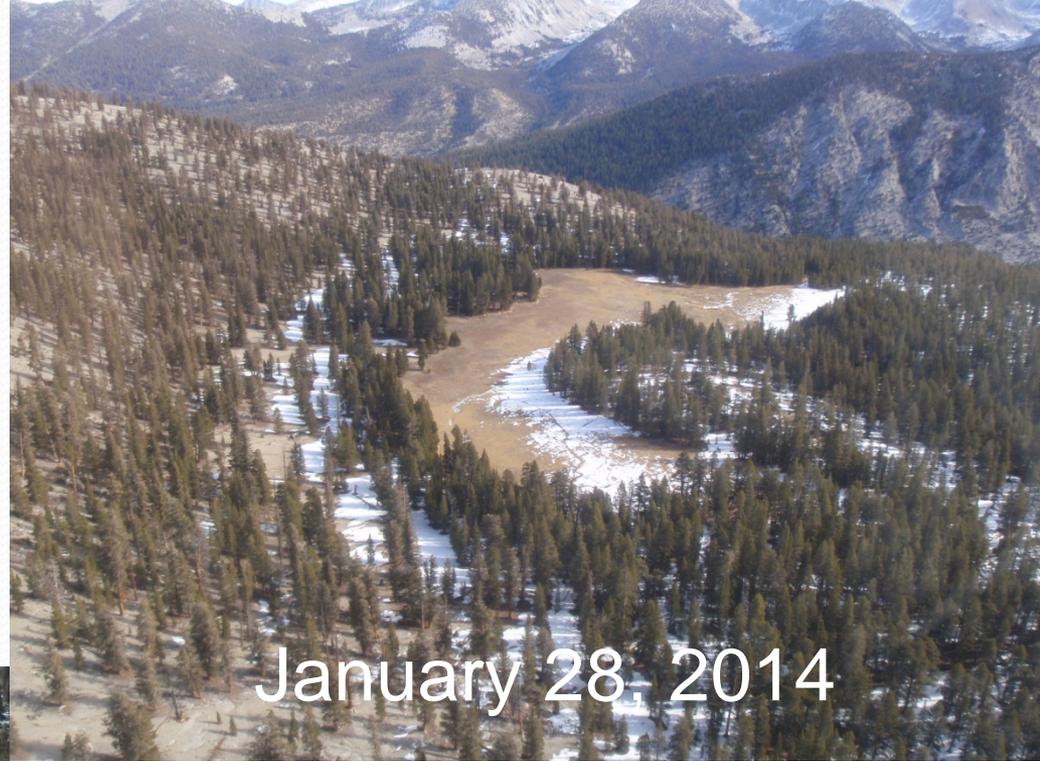


January 30, 2013



# Scenic Meadow

Elevation 9,650 ft



# Scenic Meadow

Elevation 9,650 ft

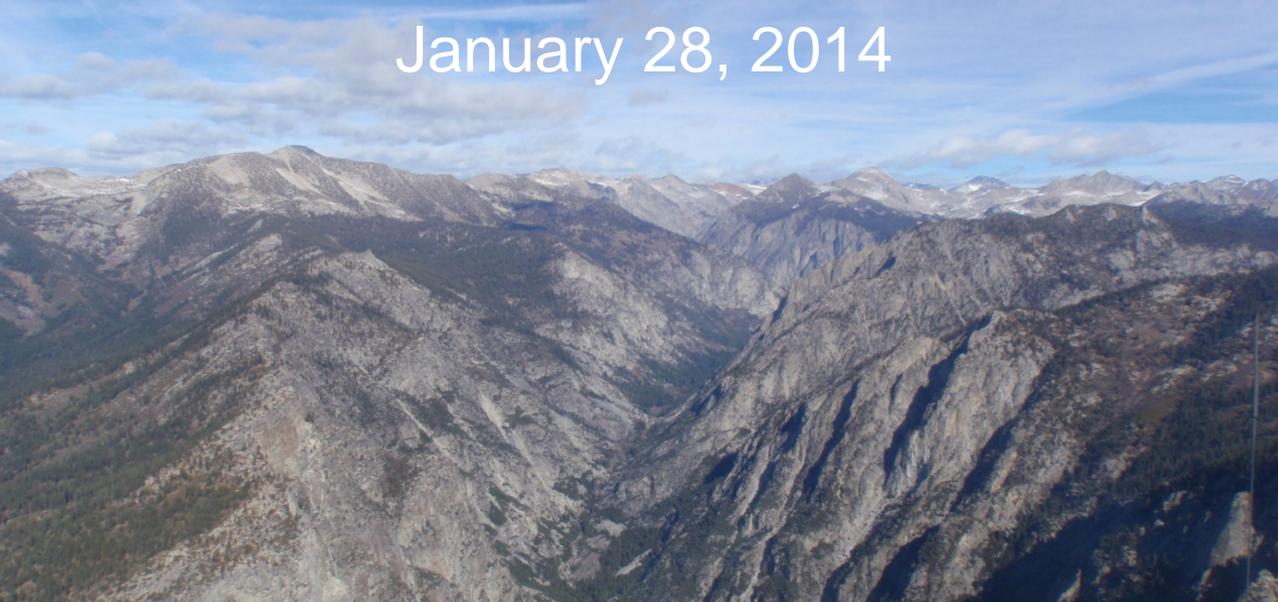


January 28, 2014



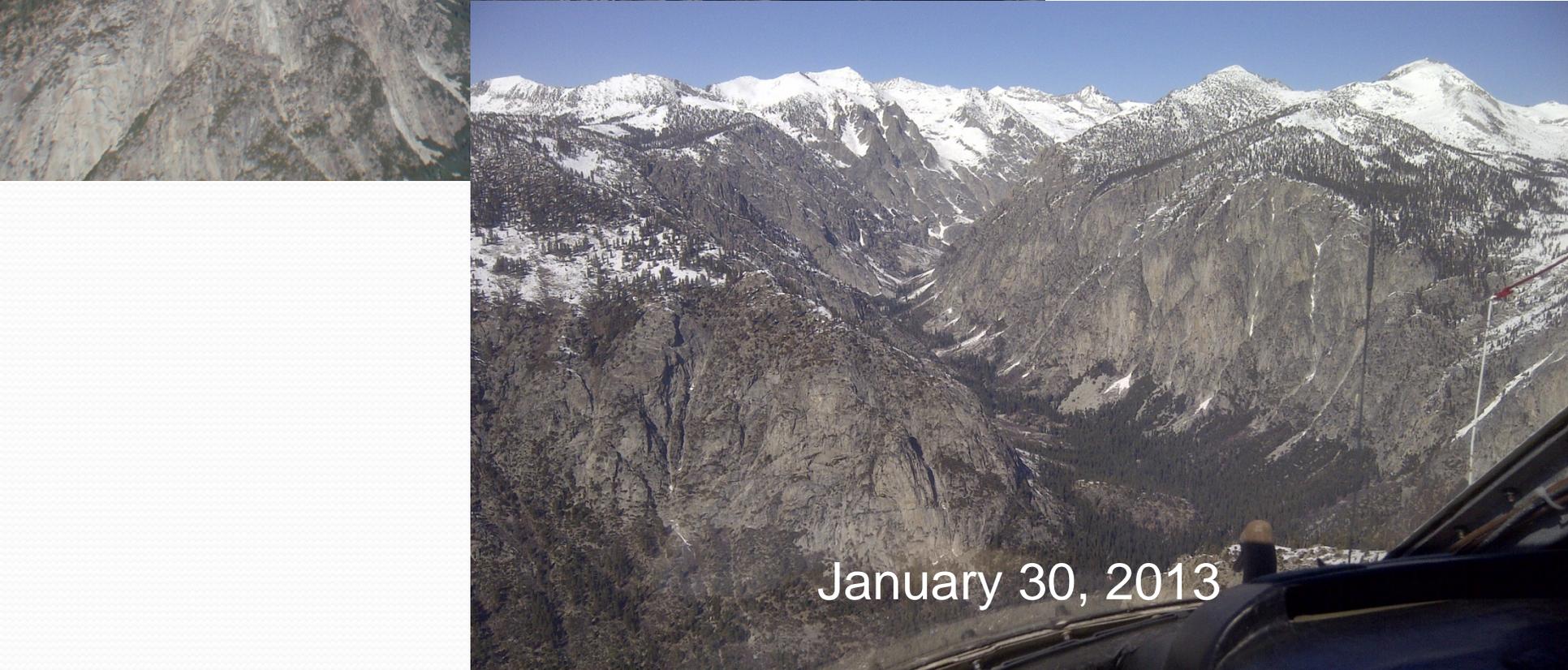
January 30, 2013

January 28, 2014



# South Fork Kings River

Looking from  
Cedar Grove



January 30, 2013



South Fork Kings from Cedar Grove - January 26, 2011

Bench Lake – Elevation 10,600 ft – January 28, 2014





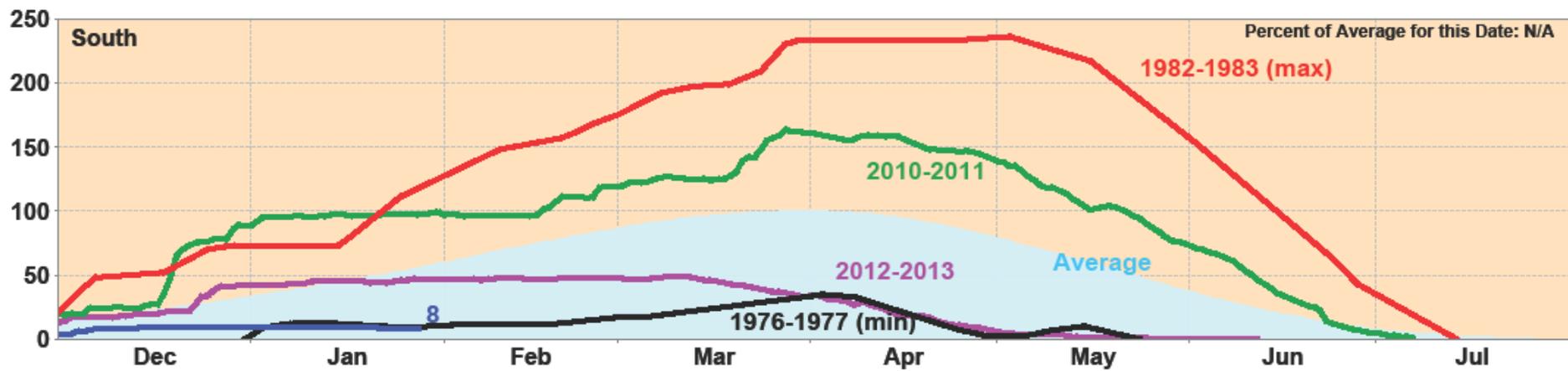
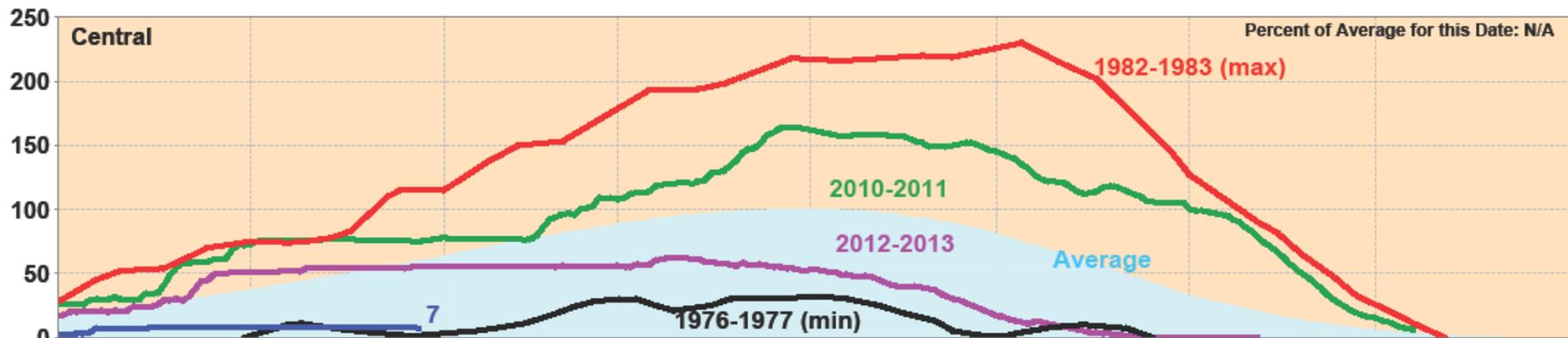
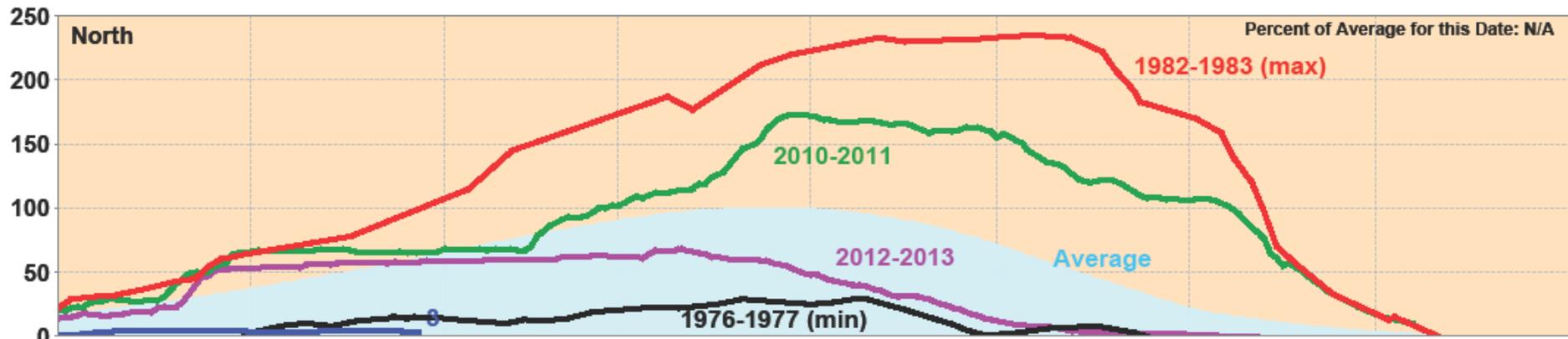
Big Meadows Snow Sensor - Elevation 7,600 ft  
January 27, 2014

# CURRENT SNOW SURVEY READINGS

## for January 28, 2014

KRWA Snow Survey Course Locations	Elevation (Feet)	Snow Depth (Inches)	Water Content (Inches)	April 1 Average (Inches)	Percent of April 1 Average*
Bench Lake	10,600	14.9	4.6	27.1	17%
State Lakes	10,300	0	0	29.0	0%
Mitchell Meadow	9,900	11.1	3.0	32.9	9%
Scenic Meadow	9,650	0	0	24.1	0%
Rowell Meadow	8,850	3.8	0.9	26.5	3%
Big Meadows	7,600	0	0	24.6	0%
Big Meadows ( <i>Sensor Site</i> )	7,600	0	0	26.0	0%
Horse Corral Meadow	7,600	0	0	16.3	0%
<b>COURSE AVERAGES</b>		<b>3.7</b>	<b>1.1</b>	<b>25.8</b>	<b>4.1%</b>

# California Snow Water Content, January 28, 2014, Percent of April 1 Average



# Gauge - South Fork of the Kings River Above Roaring River

South Fork  
Kings River

Installed Fall 2014























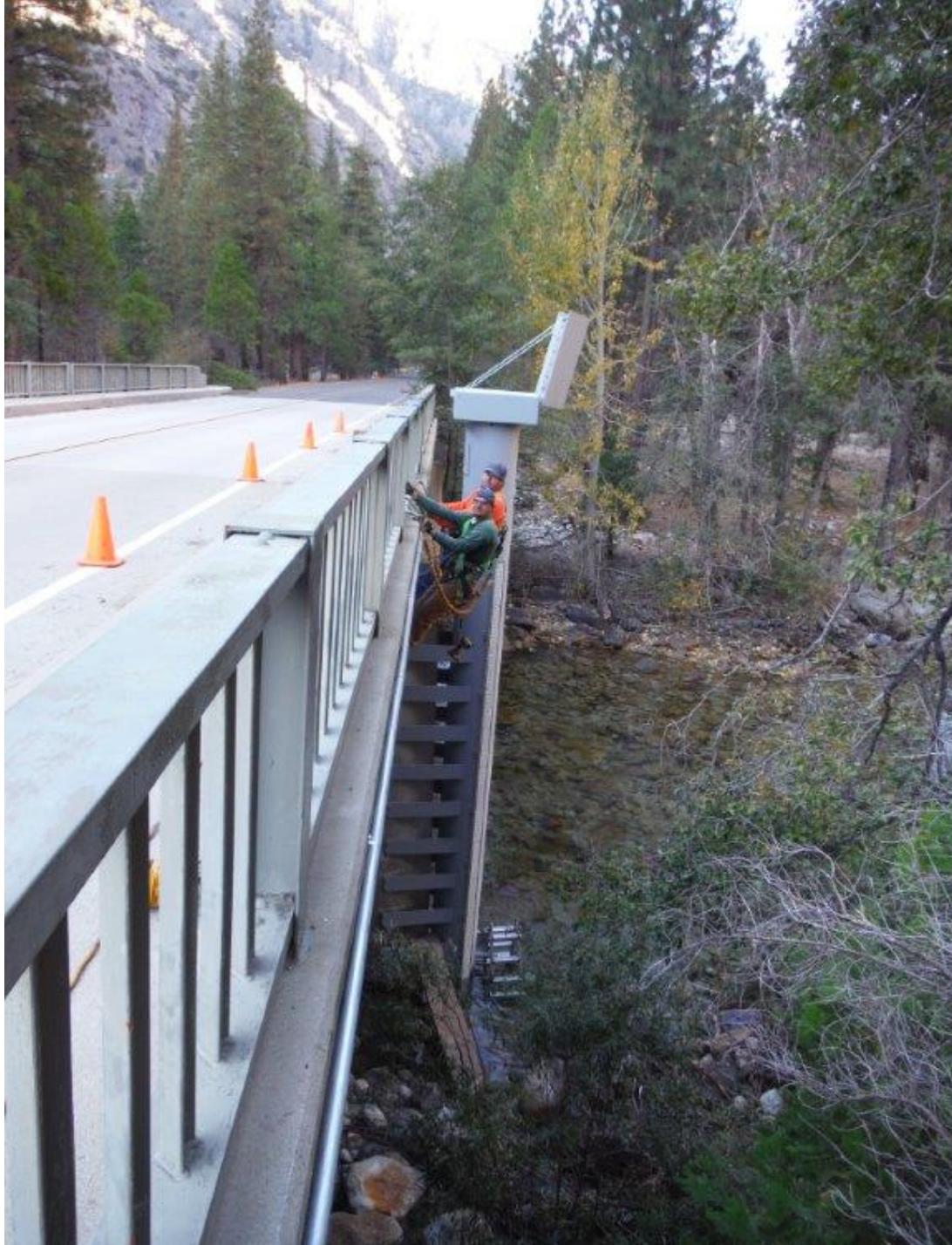




DROCK HICKS









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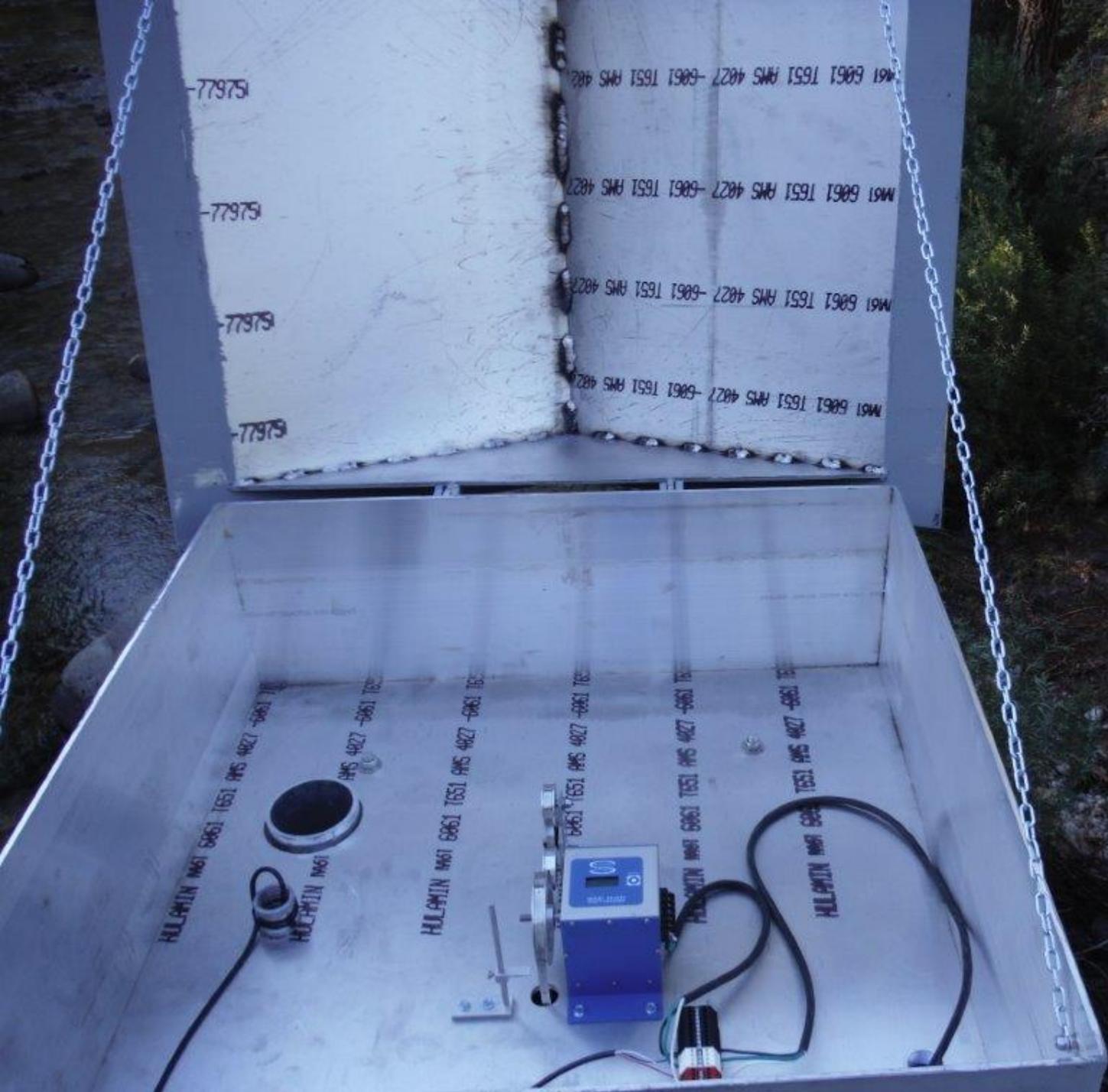


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M61 6061 1651 RMS 4027-6061 1651 RMS 4027

HULLPITN M61 6061 1651 RMS 4027-6061 1651 RMS 4027

HULLPITN M61

M61 6061 1651 RMS 4027-6061 1651 RMS 4027

HULLPITN M61 6061 1651 RMS 4027-6061 1651 RMS 4027

M61 6061 1651 RMS 4027-6061 1651 RMS 4027

HULLPITN M61 6061 1651 RMS 4027-6061 1651 RMS 4027

HULLPITN M61 6061 1651 RMS 4027-6061 1651 RMS 4027









# SF KINGS R ABV ROARING R (KRR)

Elevation: 4850' - KINGS R basin - Operator: Kings R Water Authority

Query executed Monday at 7:48:13



Provisional data, subject to change.  
Select a sensor type for a plot of data.

## RIV STG

Date / Time (PDT)	RIV STG FEET
10/13/2014 06:45	1.86
10/13/2014 07:00	1.86
10/13/2014 07:15	1.86
10/13/2014 07:30	1.86

## TEMP W

Date / Time (PDT)	TEMP W DEG F
10/13/2014 06:45	49.6
10/13/2014 07:00	49.6
10/13/2014 07:15	49.5
10/13/2014 07:30	49.5

## TEMPW C

Date / Time (PDT)	TEMPW C DEG C
10/13/2014 06:45	9.8
10/13/2014 07:00	9.8
10/13/2014 07:15	9.7
10/13/2014 07:30	9.7

## BAT VOL

Date / Time (PDT)	BAT VOL VOLTS
10/13/2014 04:00	12.8
10/13/2014 05:00	12.8
10/13/2014 06:00	12.8
10/13/2014 07:00	12.8

# Credits

- Grant Funding – California Department of Water Resources, FCO
- Contractor – Sierra Hydrographics, Auberry, CA
- Thanks to – National Park Service, Federal Highway Administration, Kings River Conservation District, and Kings River Water Association