CBRFC
January 2015
Water Supply Webinar

January 8, 2015

Greg Smith

These slides: www.cbrfc.noaa.gov/present/present.php

Water Supply Webinars

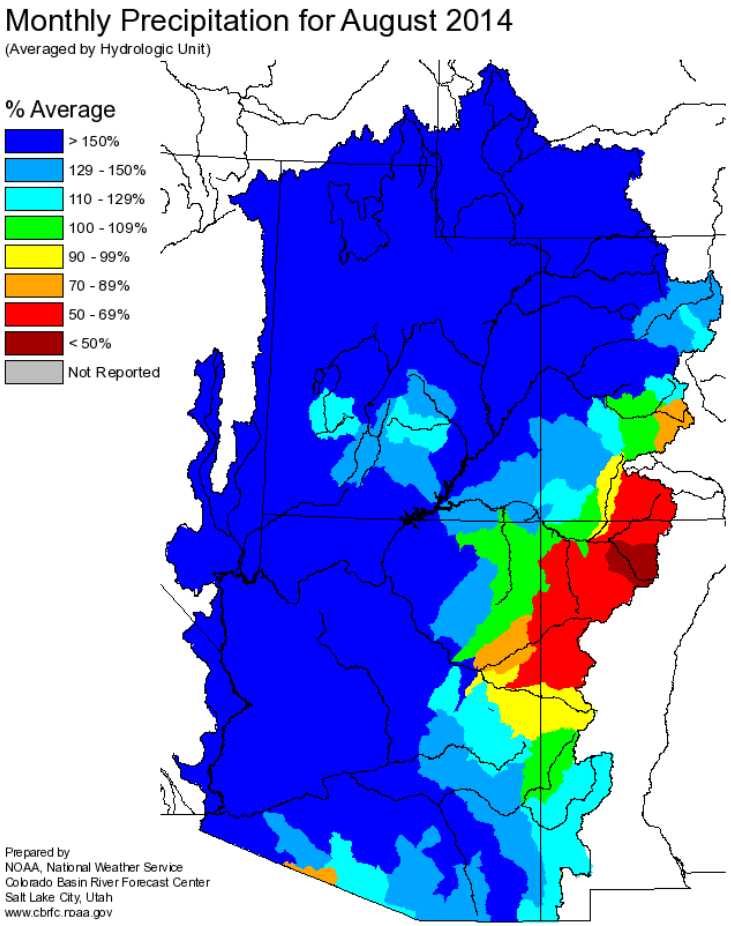
- Focus on the forecast drivers
  - Basin conditions, model states, future weather
- Provide the big picture view of runoff expectations
- Highlight the unique and out of the ordinary
- Opportunity to provide insight into our forecast process
  - Data interpretation, climate issues, new technology, etc.
- Continue to modify webinars to meet needs and be informative
  - UC webinar and Great Basin webinar?

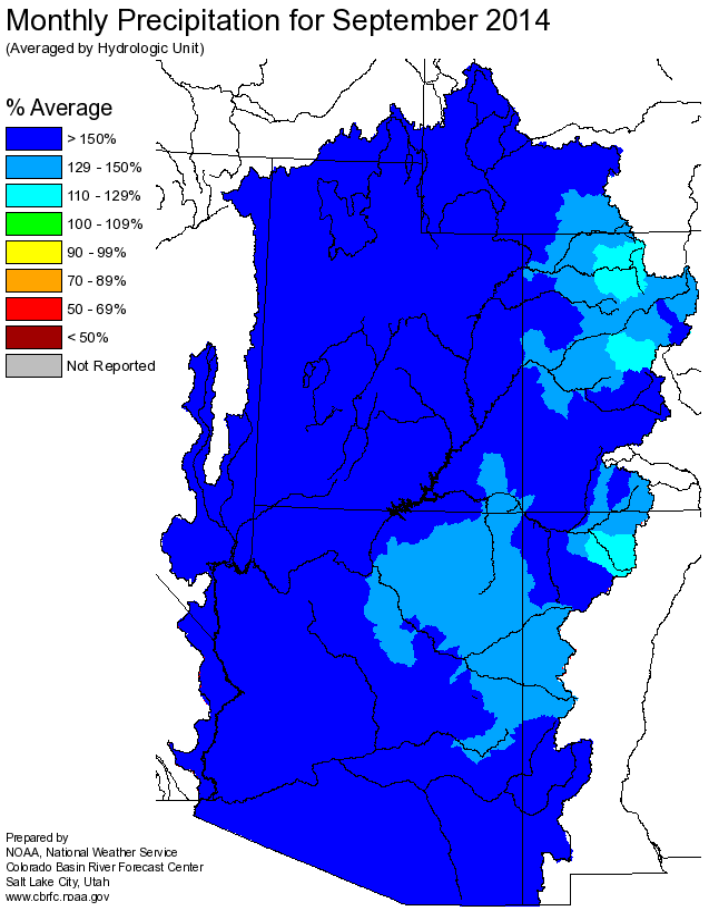
5 brief webinar survey questions at the end

January Water Supply Webinar

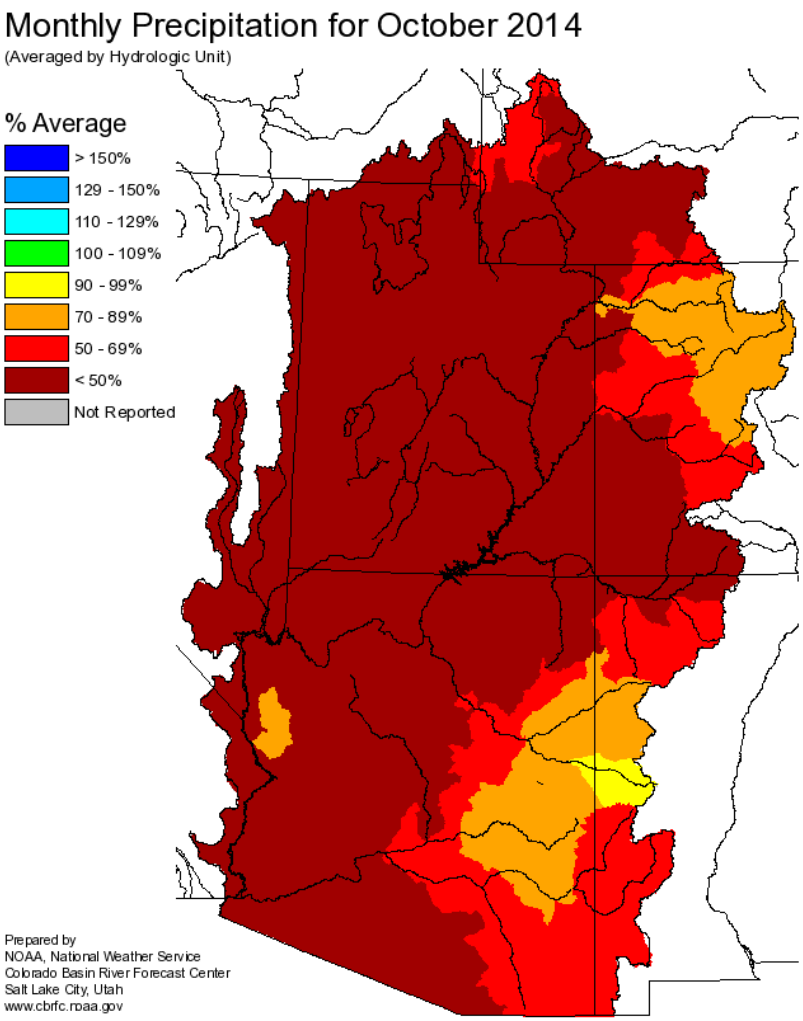
- Fall / winter weather
- Current conditions driving the forecasts
  - Soil Moisture, Snow Conditions
- Water supply forecasts
- Insight: SNOTEL Elevation vs Flow Contribution
- Upcoming weather (short and long term)

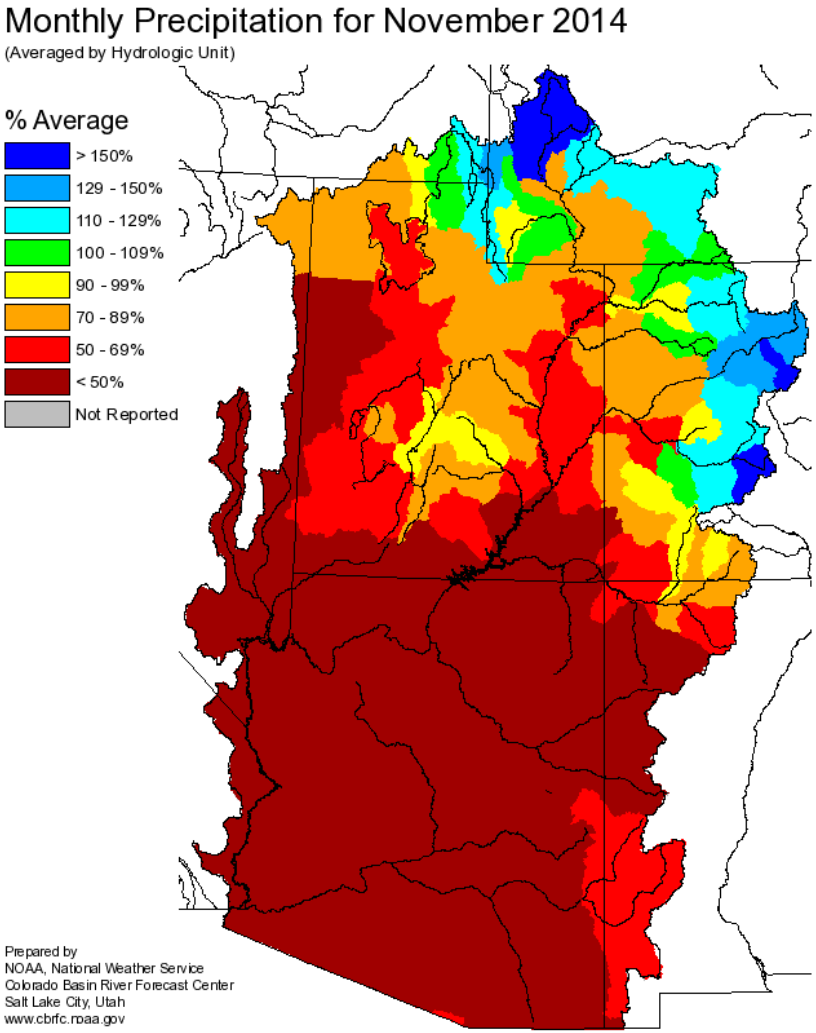
Late Summer / Fall Precipitation





Fall Precipitation





Model Soil Moisture Entering Winter

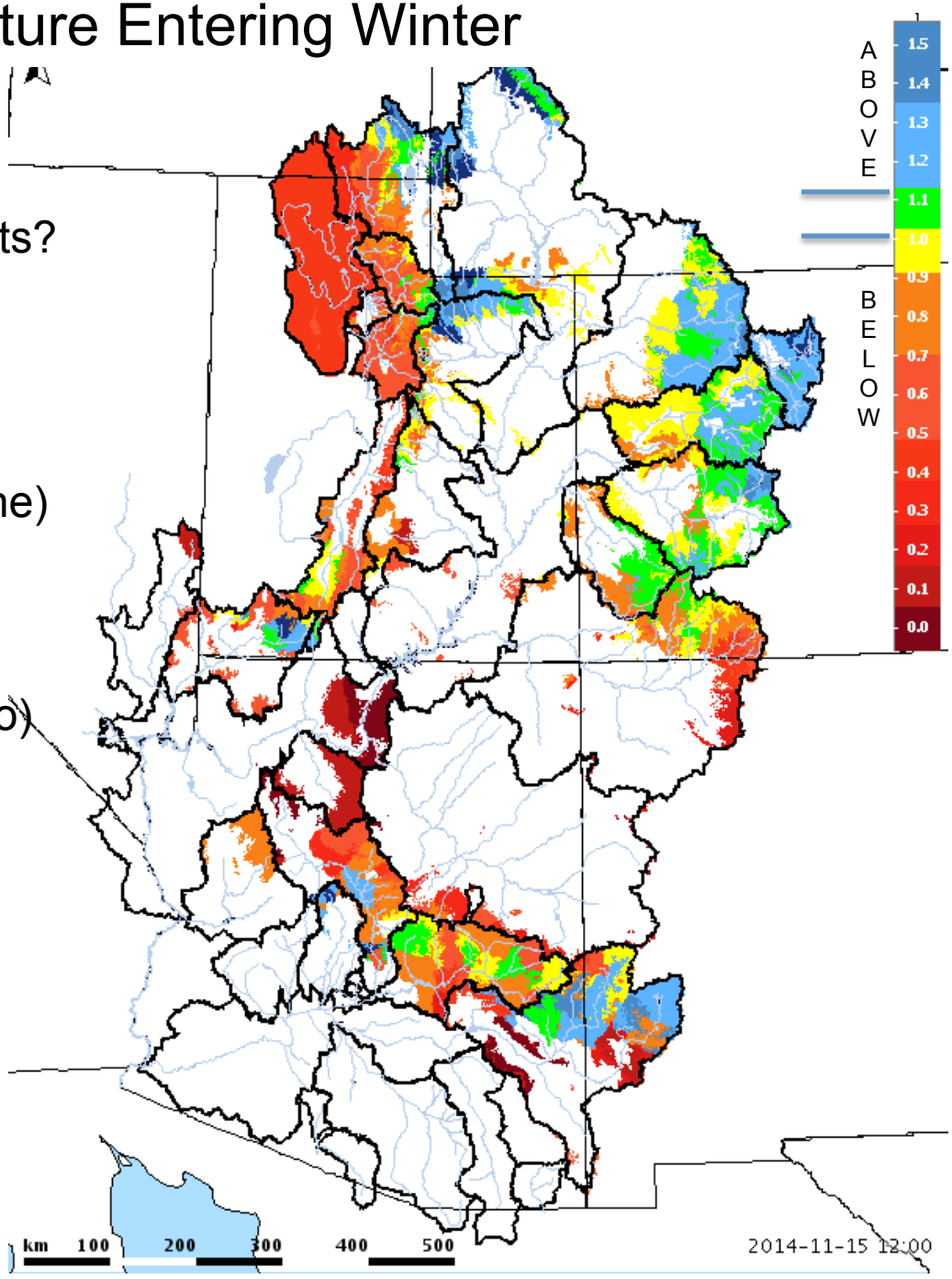
How will this affect water supply forecasts?

Positive:

- Green above Fontenelle
- Colorado above Kremmling
- Uinta Range (Bear, Provo, Duchesne)
- Parts of Yampa, White, Gunnison

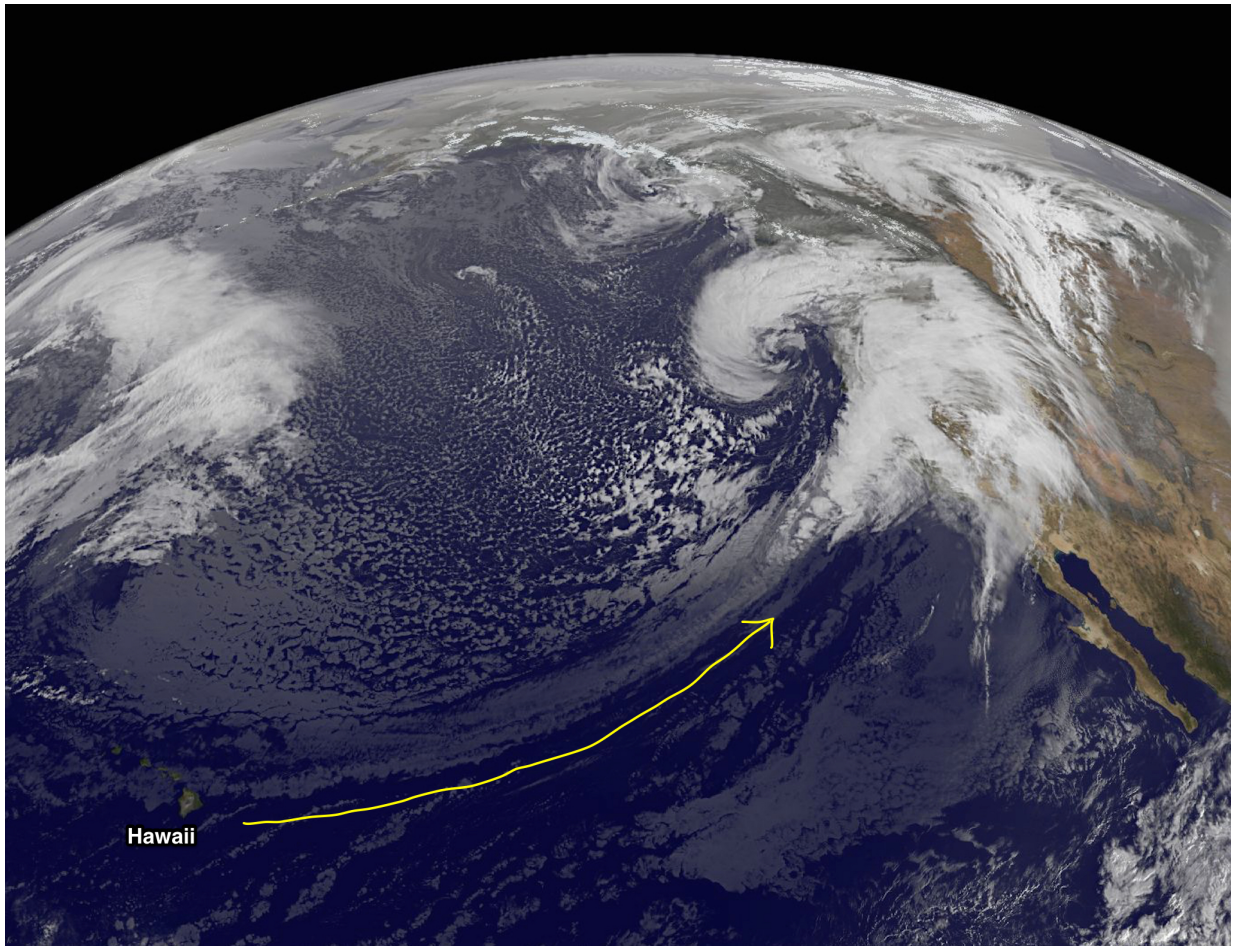
Negative:

- Northern Great Basin (Weber, Provo)
- Sevier
- San Juan
- Virgin
- Lower Colorado Basins



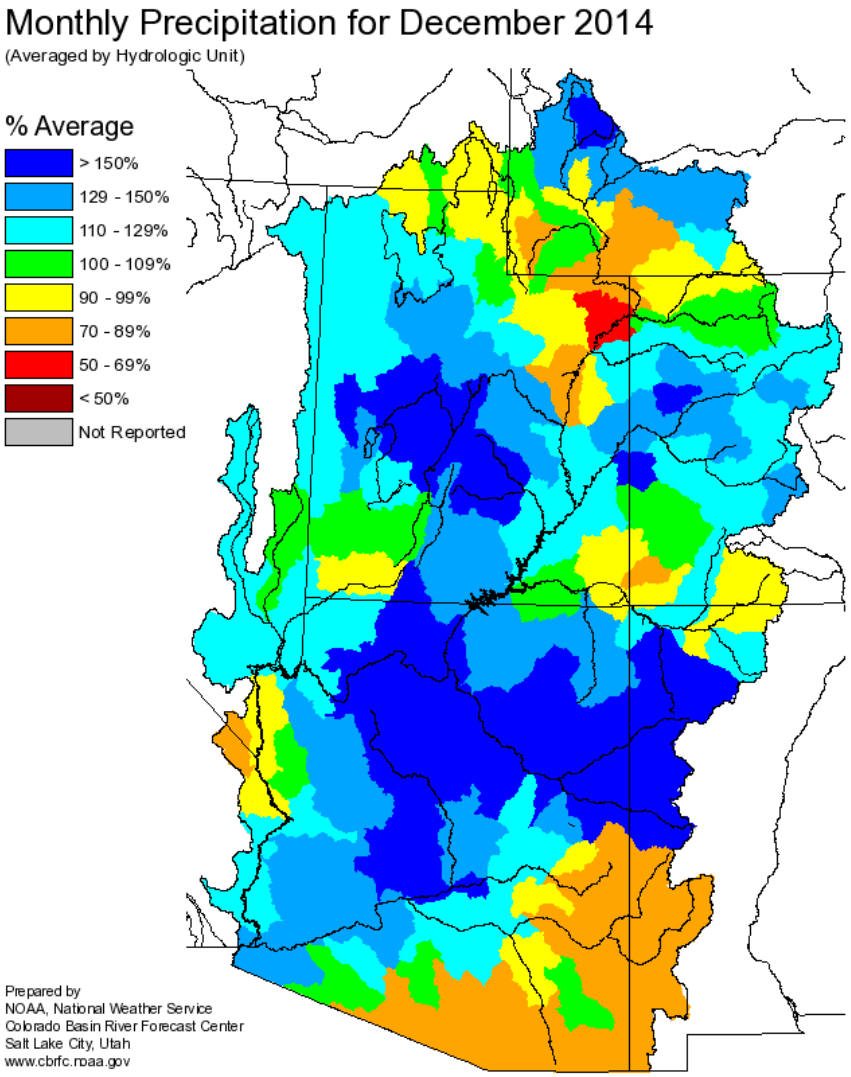
December 2014 Weather

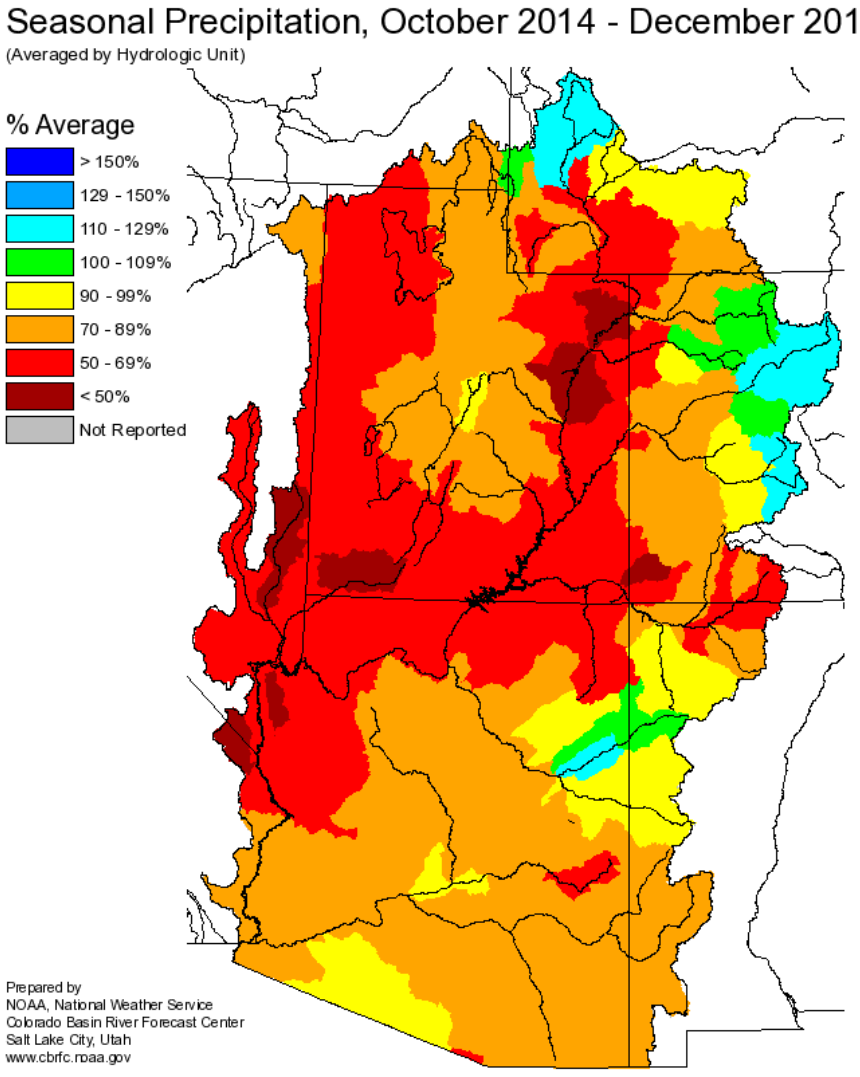
Mild temperatures – December ended up warmer than average
Moist and mild air mass – Pacific/Sub-Tropical source
Precipitation varied but generally near to above average
Arctic air arrived to end the month – Low elevation snow



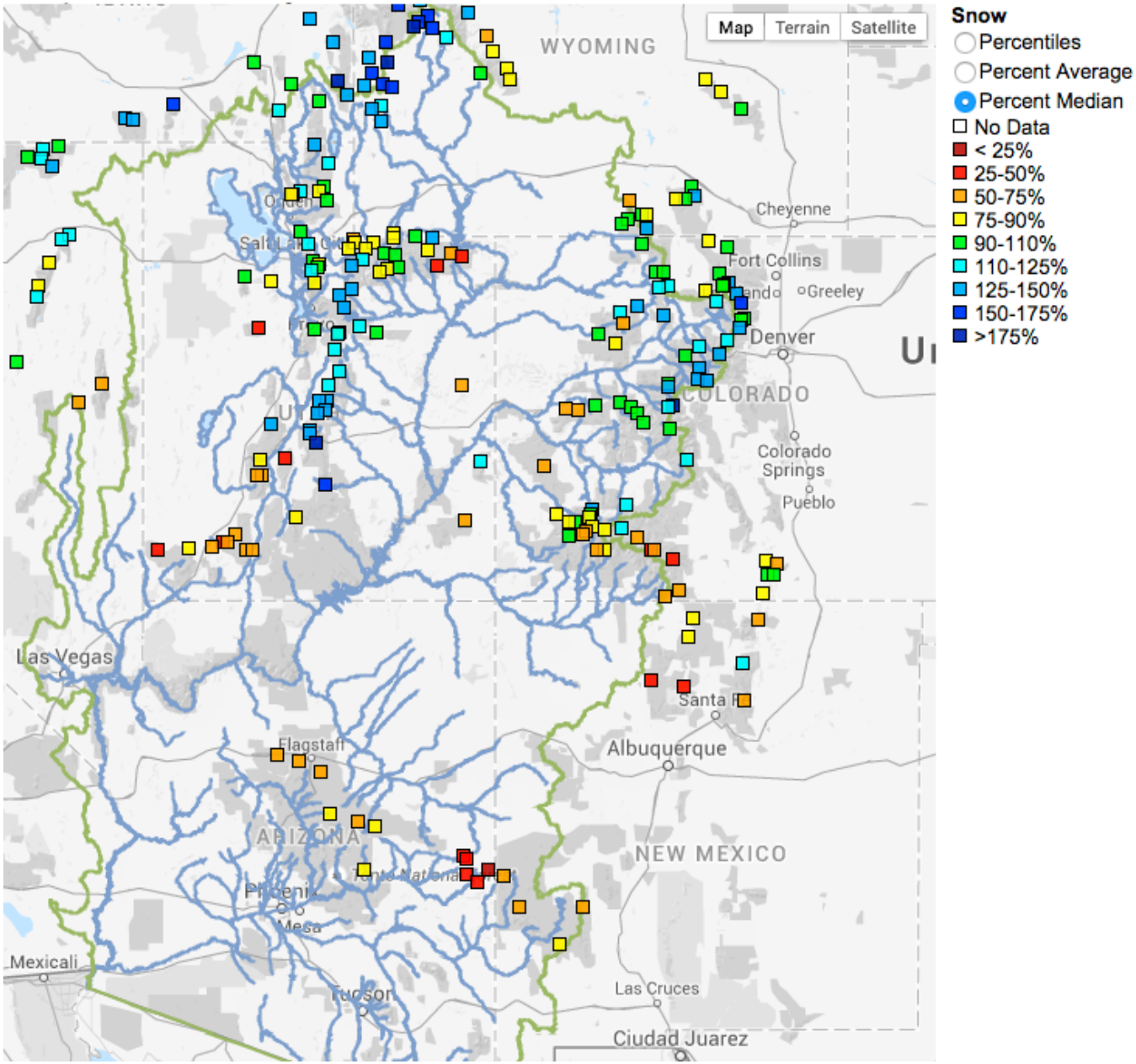
NOAA / NASA

December / Water-Year Precipitation

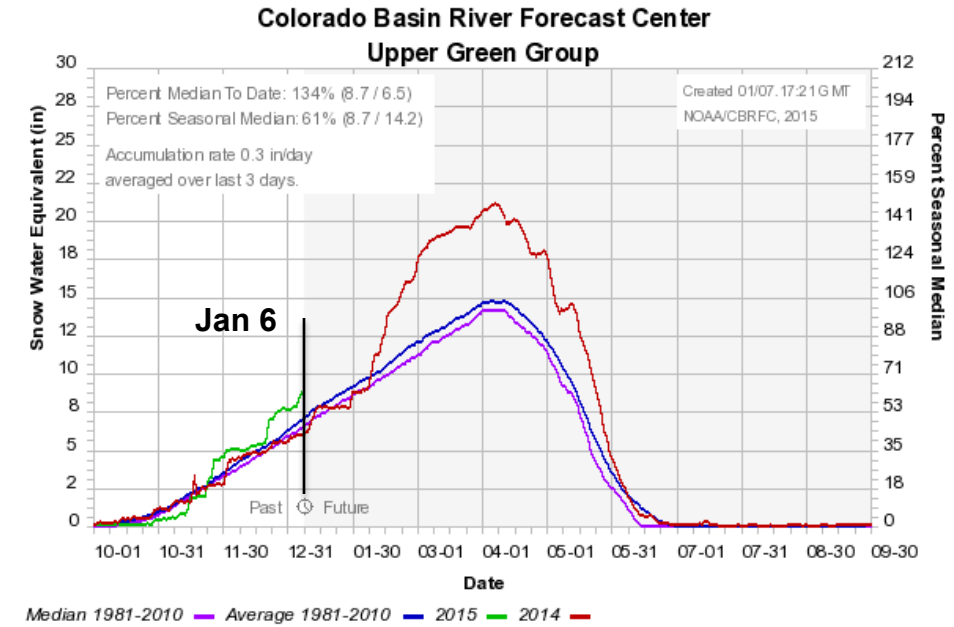


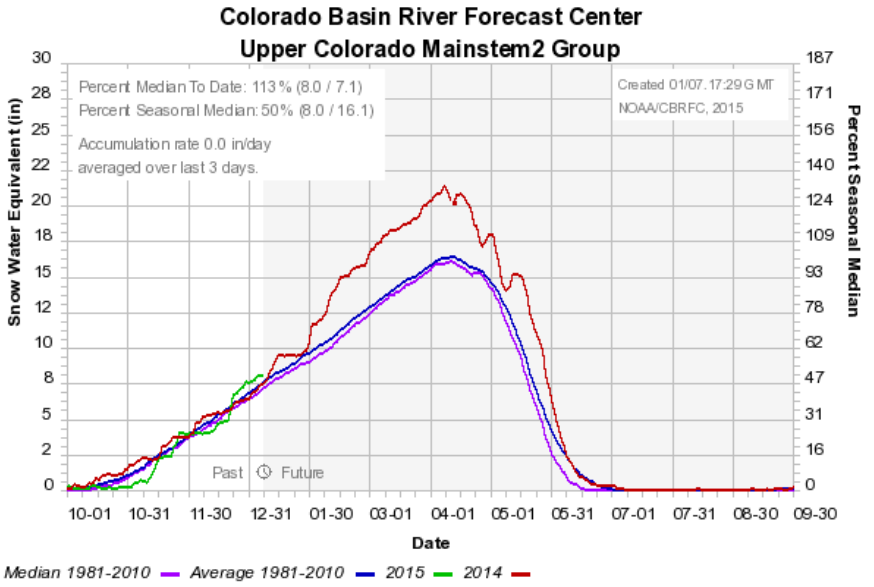


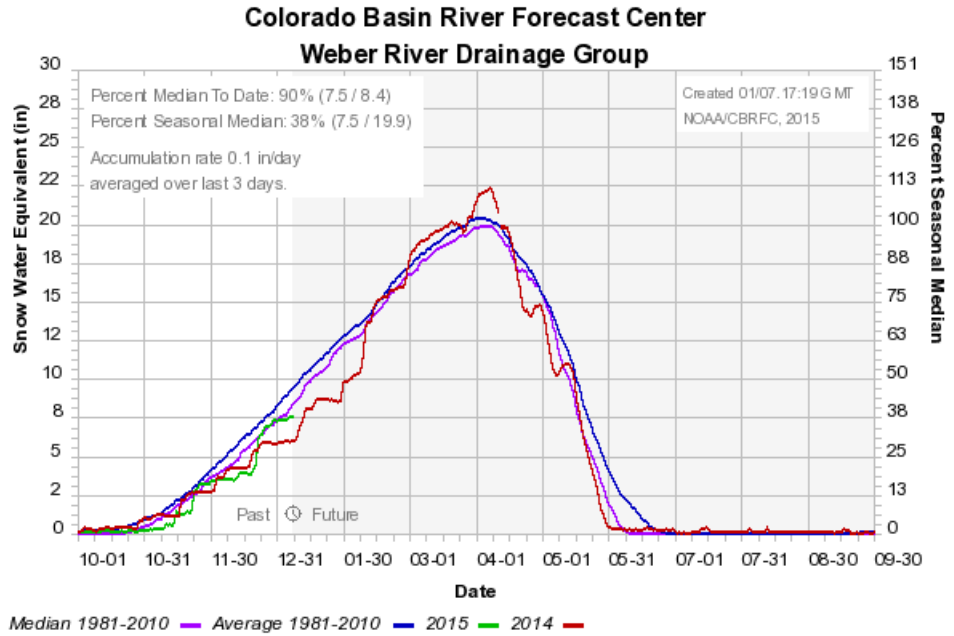
January 6th Snow

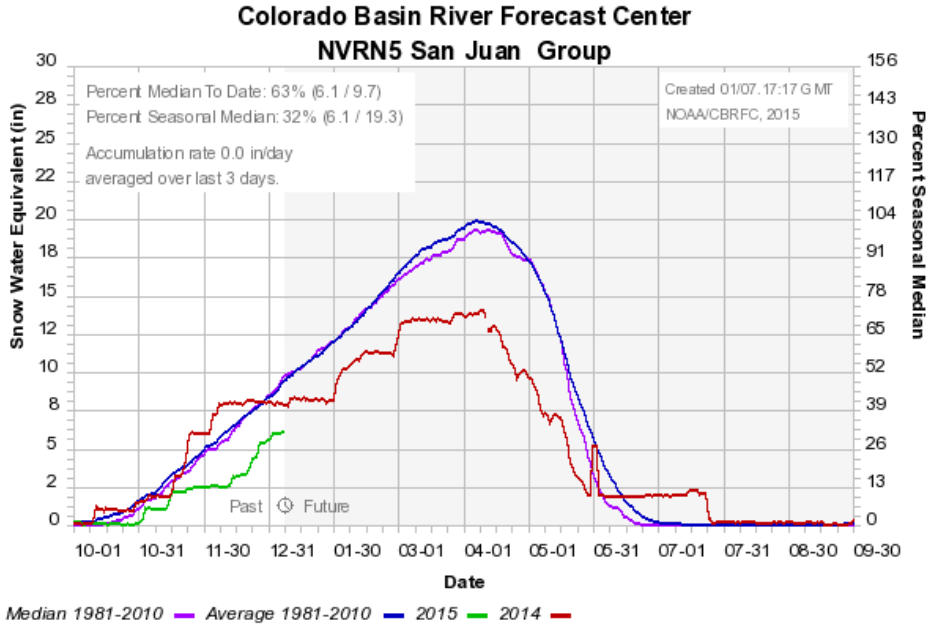


Snow Groups


Colorado Basin River Forecast Center
Upper Green Group
Percent Median To Date: 134% (8.7 / 6.5)
Percent Seasonal Median: 61% (8.7 / 14.2)
Accumulation rate 0.3 in/day
averaged over last 3 days.
Created 01/07.17:21 G MT
NOAA/CBRFC, 2015
Jan 6
Past
Future
Snow Water Equivalent (in)
Percent Seasonal Median
Date
10-01 10-31 11-30 12-31 01-30 03-01 04-01 05-01 05-31 07-01 07-31 08-30 09-30
Median 1981-2010
Average 1981-2010
2015
2014

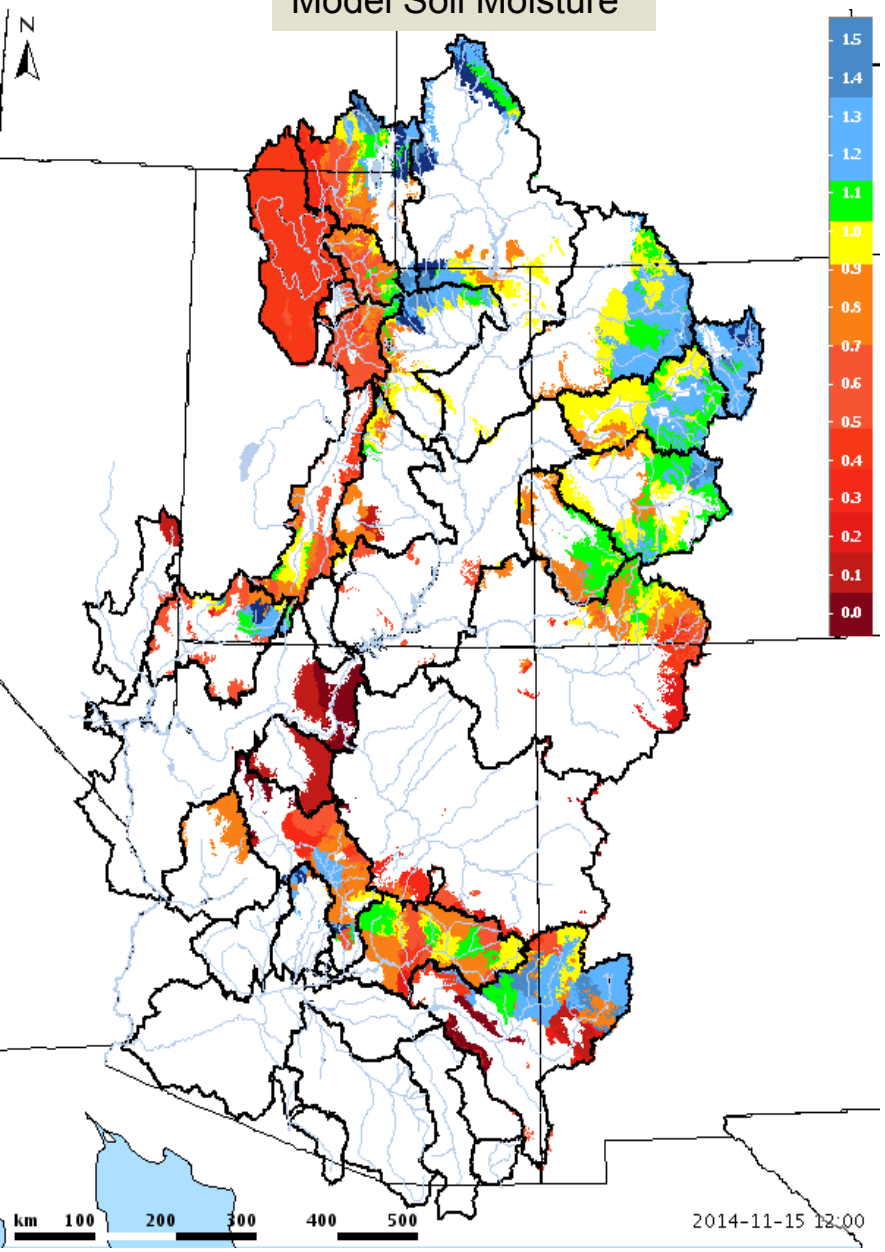

Colorado Basin River Forecast Center
Upper Colorado Mainstem2 Group
Percent Median To Date: 113% (8.0 / 7.1)
Percent Seasonal Median: 50% (8.0 / 16.1)
Accumulation rate 0.0 in/day
averaged over last 3 days.
Created 01/07.17:29 G MT
NOAA/CBRFC, 2015
Past
Future
Snow Water Equivalent (in)
Percent Seasonal Median
Date
10-01 10-31 11-30 12-31 01-30 03-01 04-01 05-01 05-31 07-01 07-31 08-30 09-30
Median 1981-2010
Average 1981-2010
2015
2014


Colorado Basin River Forecast Center
Weber River Drainage Group
Percent Median To Date: 90% (7.5 / 8.4)
Percent Seasonal Median: 38% (7.5 / 19.9)
Accumulation rate 0.1 in/day
averaged over last 3 days.
Created 01/07.17:19 G MT
NOAA/CBRFC, 2015
Past
Future
Snow Water Equivalent (in)
Percent Seasonal Median
Date
10-01 10-31 11-30 12-31 01-30 03-01 04-01 05-01 05-31 07-01 07-31 08-30 09-30
Median 1981-2010
Average 1981-2010
2015
2014

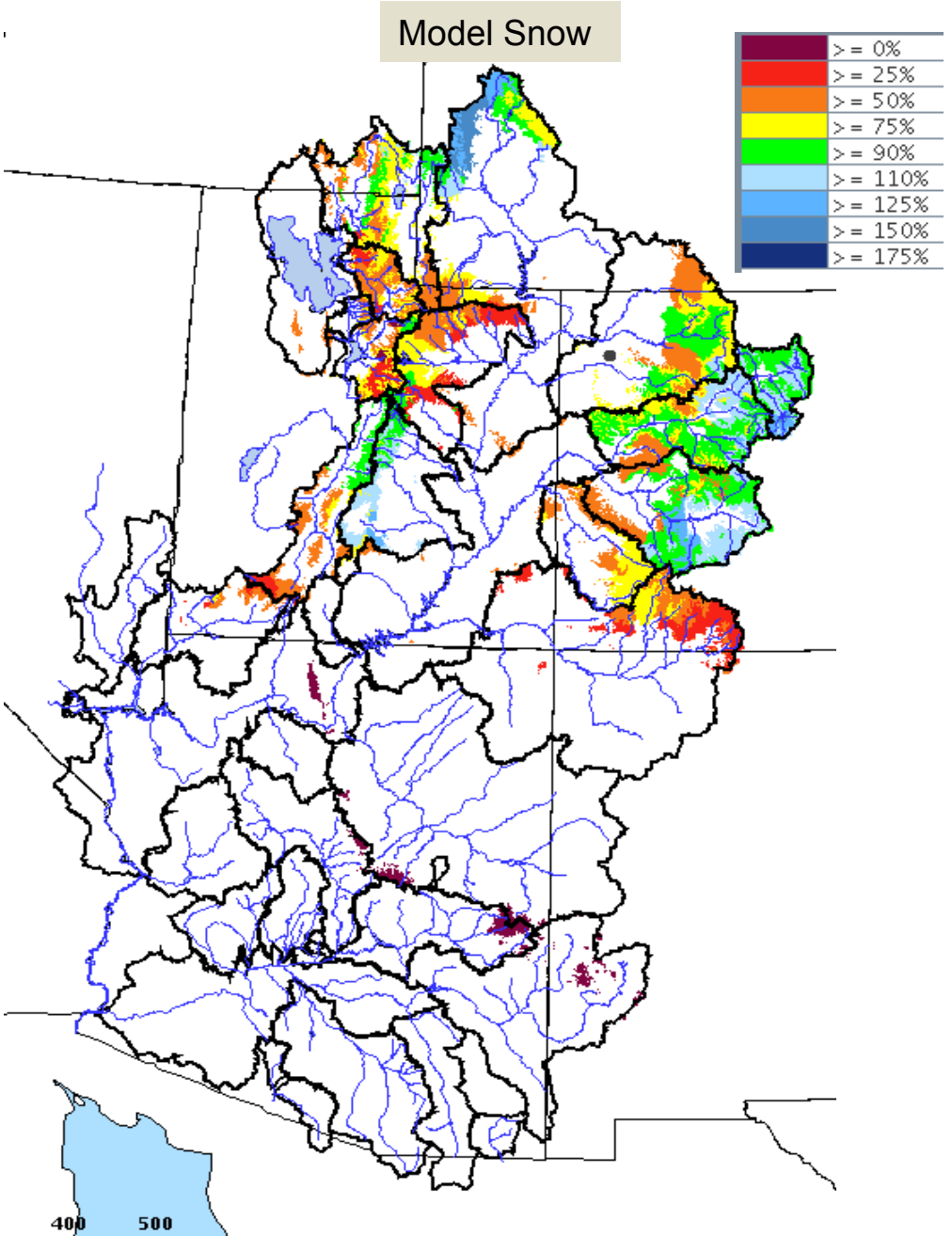

Colorado Basin River Forecast Center
NVRN5 San Juan Group
Percent Median To Date: 63% (6.1 / 9.7)
Percent Seasonal Median: 32% (6.1 / 19.3)
Accumulation rate 0.0 in/day
averaged over last 3 days.
Created 01/07.17:17 G MT
NOAA/CBRFC, 2015
Past
Future
Snow Water Equivalent (in)
Percent Seasonal Median
Date
10-01 10-31 11-30 12-31 01-30 03-01 04-01 05-01 05-31 07-01 07-31 08-30 09-30
Median 1981-2010
Average 1981-2010
2015
2014

Soil Moisture & Snow - Initial Conditions Driving the Forecasts

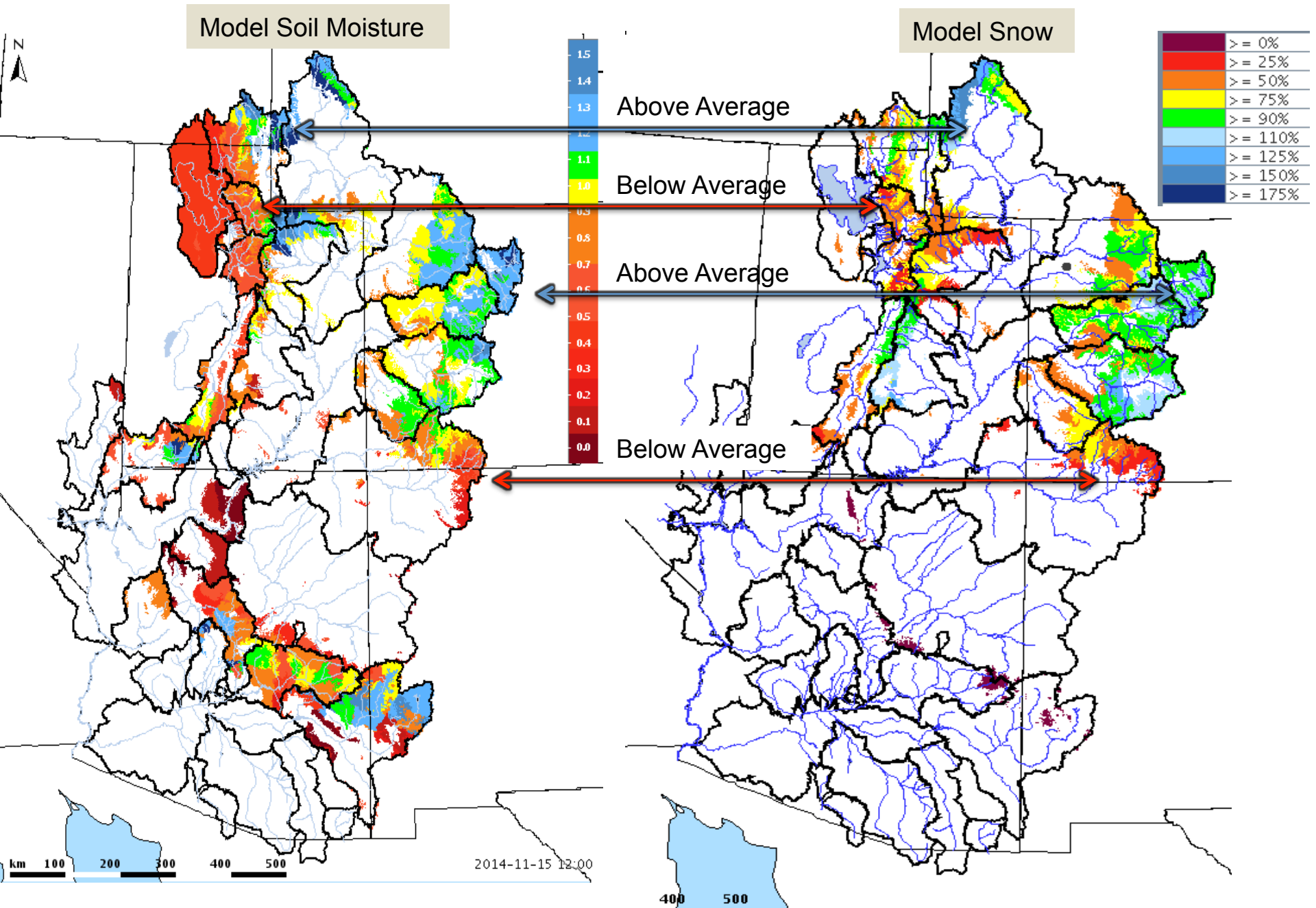
Model Soil Moisture



Model Snow

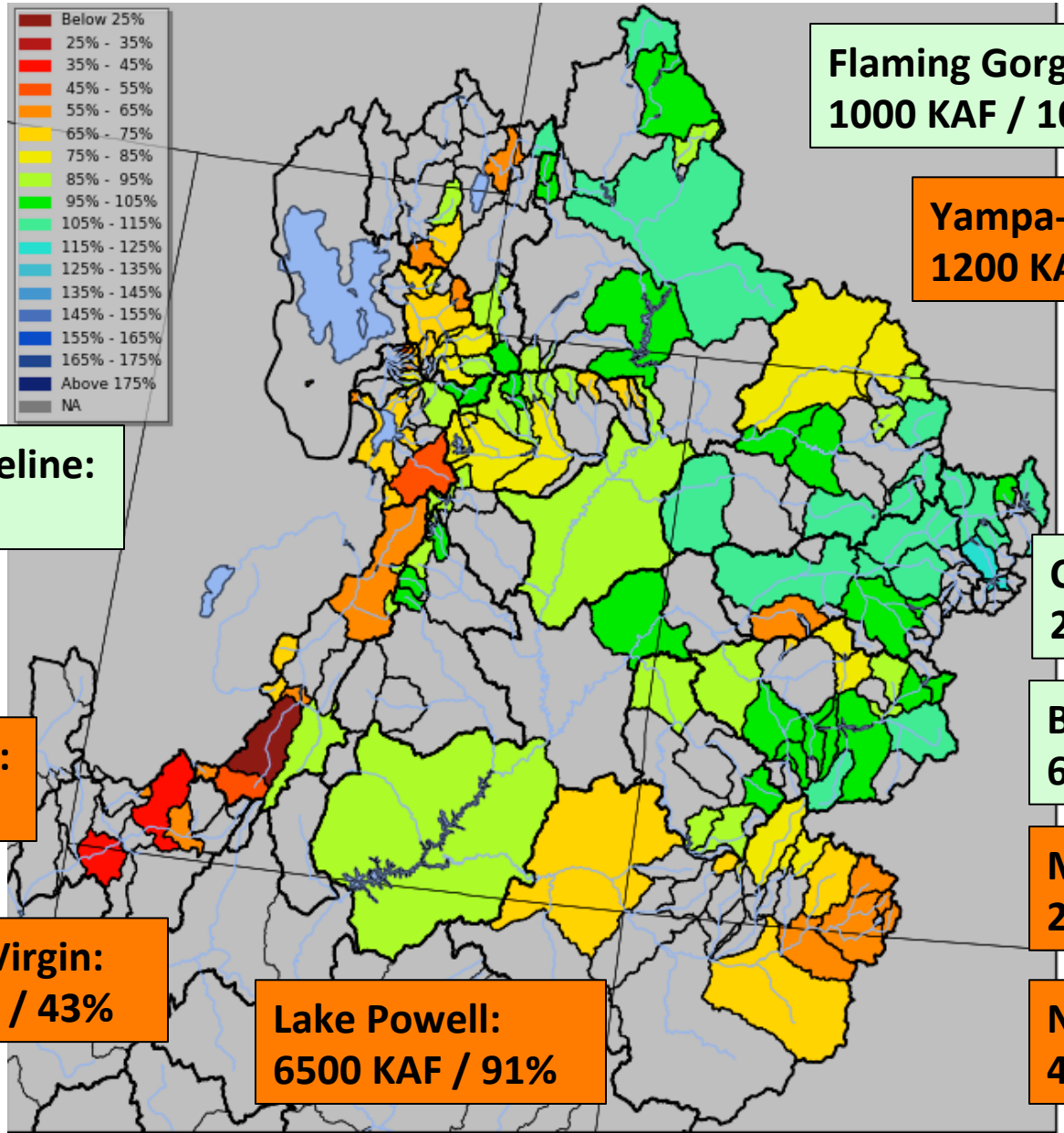


Soil Moisture and Snow – Where are the signals the same ?



January 1st Water Supply Forecasts

Apr-Jul Volumes / % Average – (50% exceedance forecasts)



Flaming Gorge:
1000 KAF / 102%

Yampa-Deerlodge:
1200 KAF / 97%

Bear-UT/WY Stateline:
117 KAF / 105%

Weber-Oakley:
107 KAF / 91%

Provo-Woodland:
97 KAF / 97%

Colorado-Cameo:
2500 KAF / 106%

Blue Mesa:
690 KAF / 102%

McPhee Res:
255 KAF / 86%

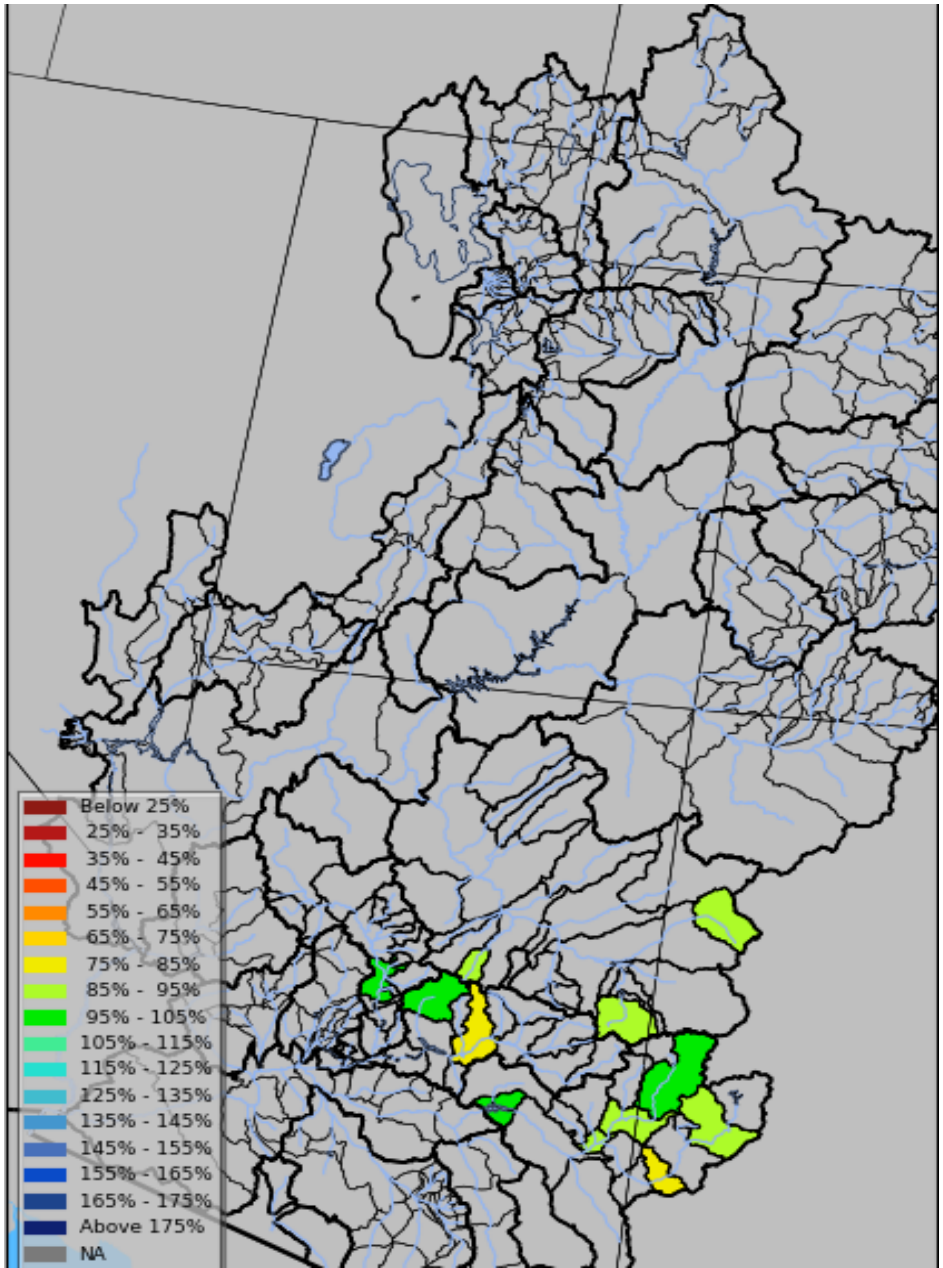
Virgin-Virgin:
28 KAF / 43%

Lake Powell:
6500 KAF / 91%

Navajo Res:
450 KAF / 61%

January 1st Water Supply Forecasts

Jan-May Volumes / % Median



Little Colorado-Lyman:
6.5 KAF / 92%

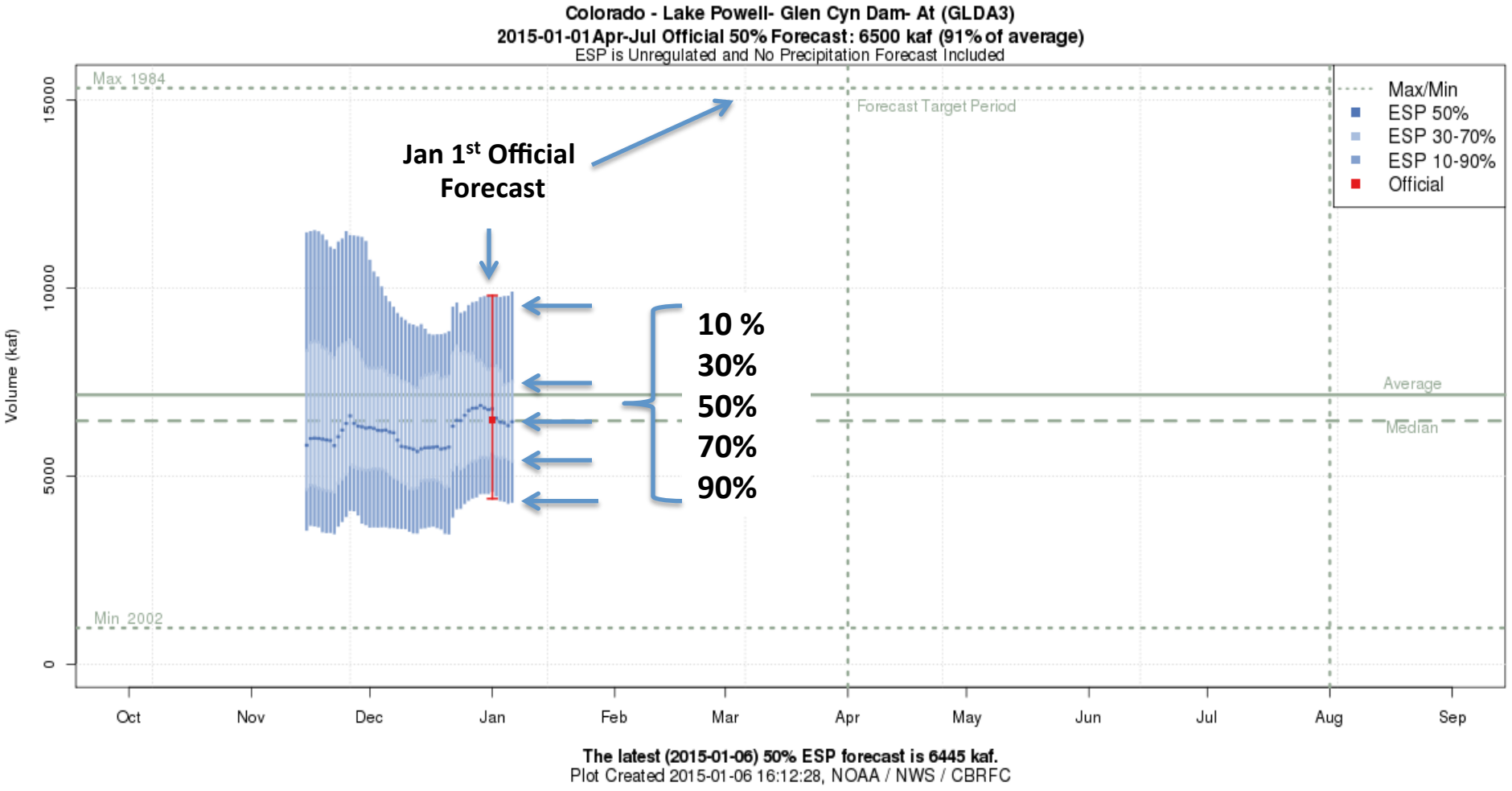
Verde-Horseshoe:
150 KAF / 96%

Salt - Roosevelt:
250 KAF / 81%

Gila-Gila:
48 KAF / 86%

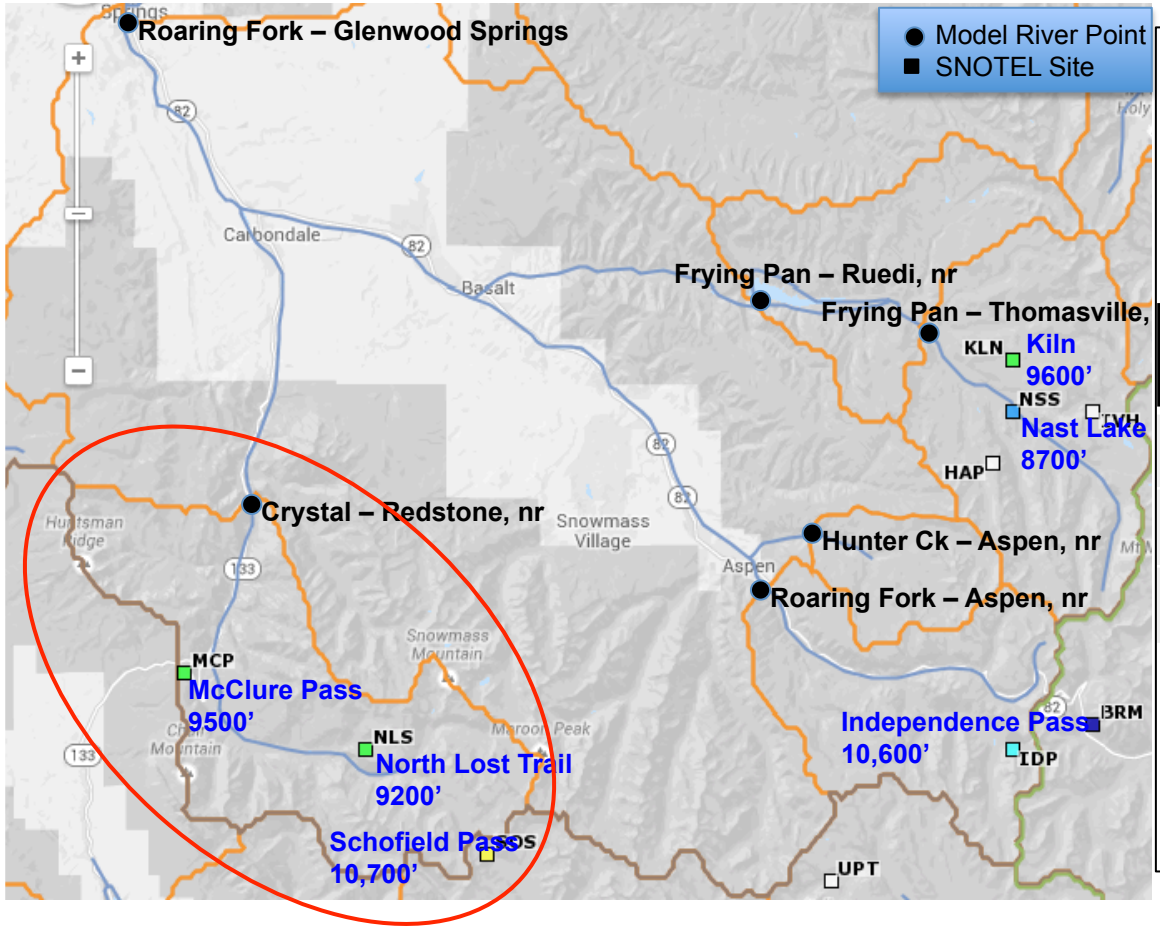
Daily Ensemble Streamflow Prediction (ESP) Model Run & Official Forecast

Available at: www.cbrfc.noaa.gov Select: Water Supply Click: Point of Interest



SNOTEL Elevations vs. Flow Contribution

Roaring Fork River Basin



Crystal – Redstone

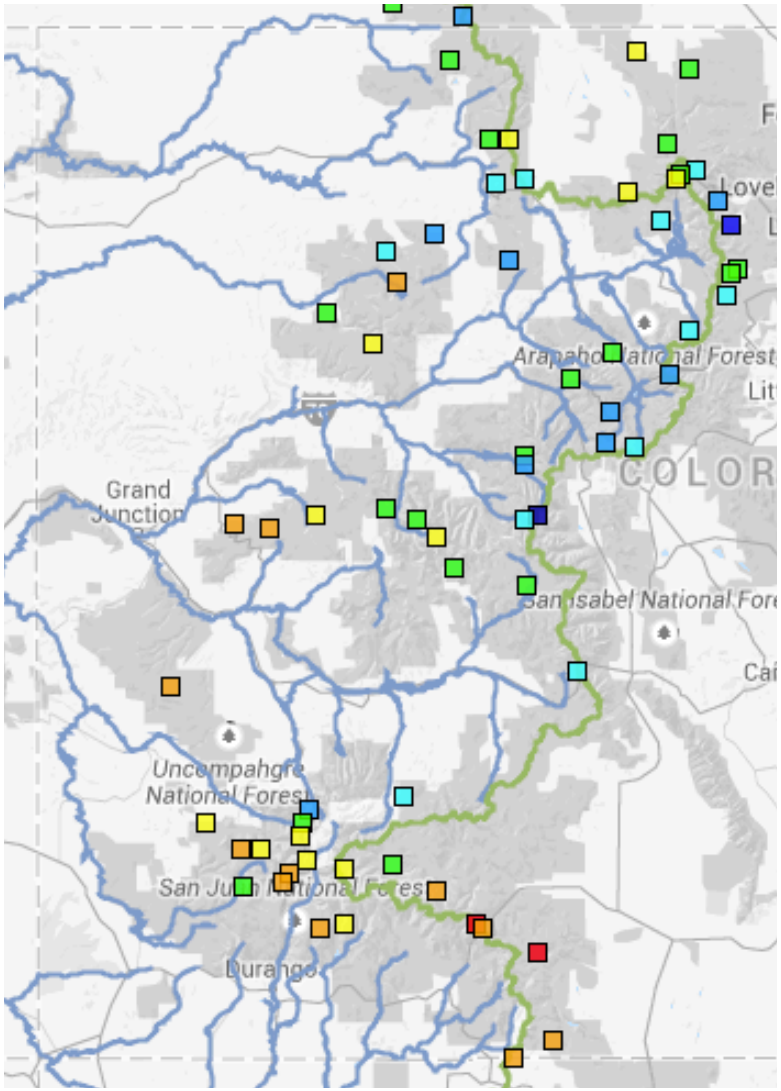
Modeled basin is broken into three elevation zones with stats as follows:

Elevation Band	% Total Area	% Flow Contribution
11,000' – 13,000'	33.5%	56%
9500' – 11,000'	33.5%	33%
7100' – 9500'	33%	11%

→ More than half of the flow comes from elevations above the highest SNOTEL station.

SNOTEL Elevations vs. Flow Contribution

Colorado River Basin SNOTEL Sites within the state of Colorado



Colorado River Basin within Colorado

Modeled basin breakdown is as follows:

Elevation Band	% Total Area	% Flow Contribution (estimated)	% SNOTEL sites within band
>11,000’	16%	36%	16%
9500’ – 11,000’	31%	41%	58%
<9500’	53%	23%	26%

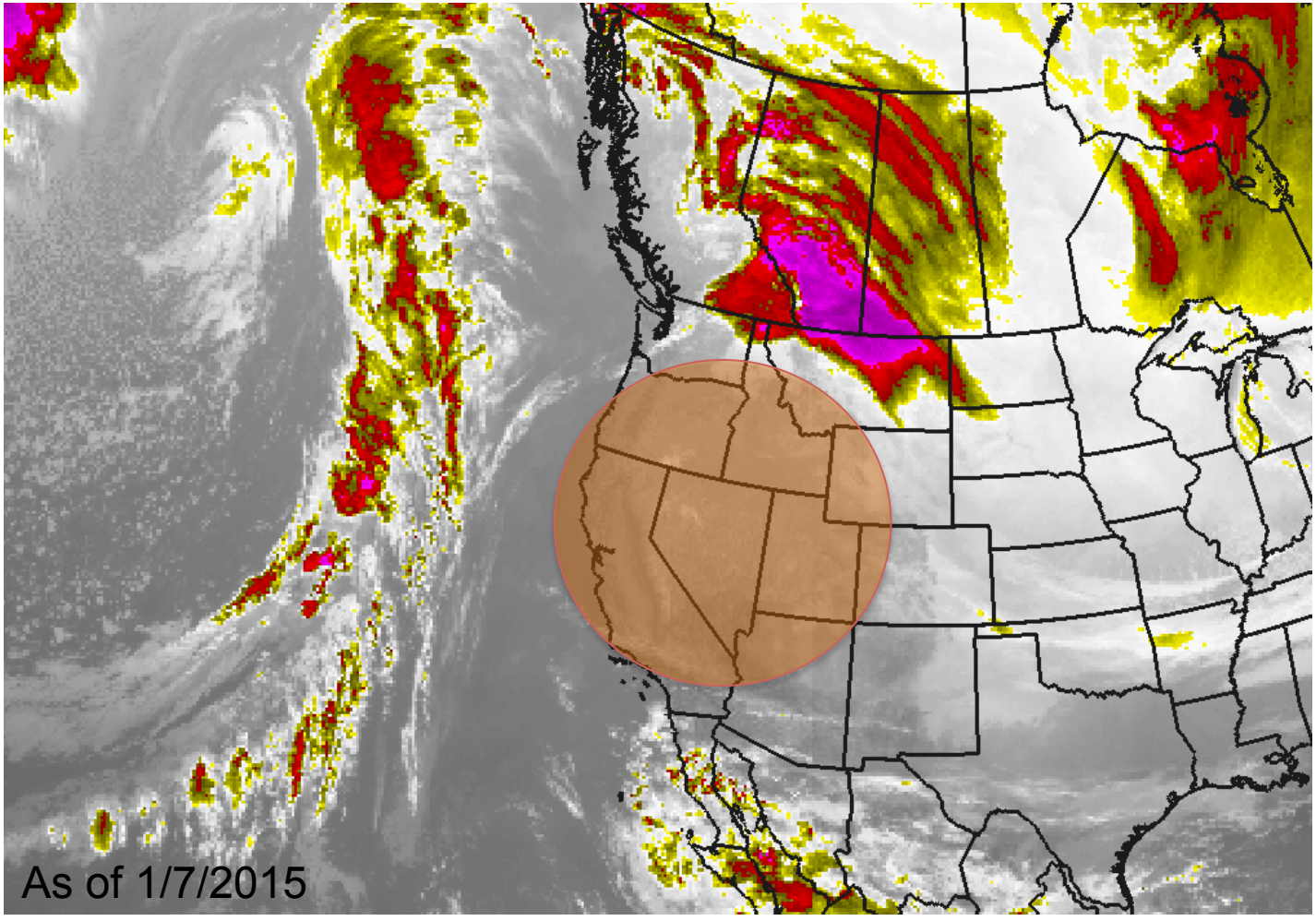
→ There are no SNOTELS above 11,600’, so the highest area is poorly represented.

Future Weather:

Strong ridge of high pressure over the area keeping conditions dry
Weak quick hitting storm system possible early next week

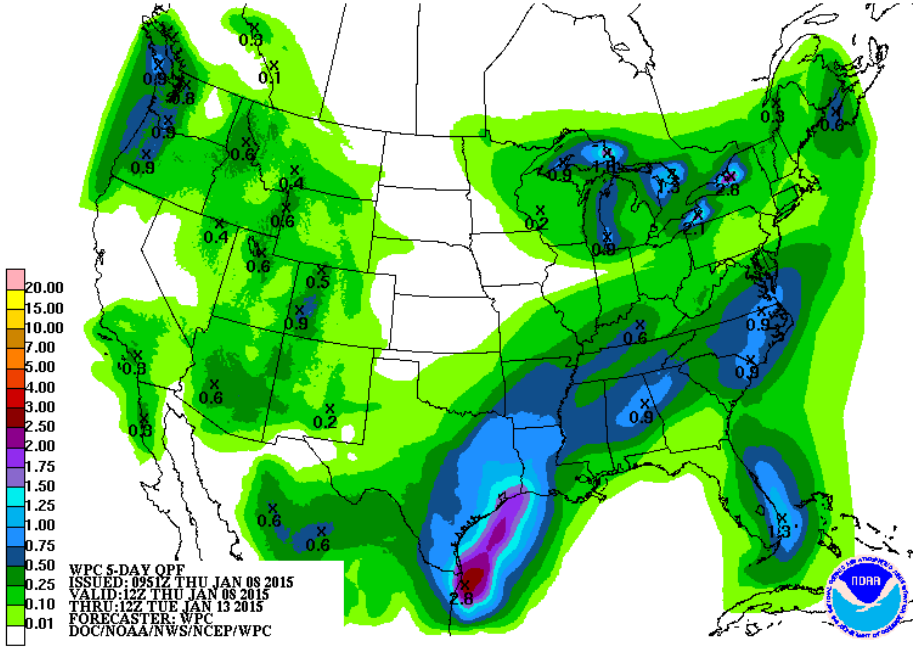
Long Range Meteorological Model Ensembles: (Lower Confidence)

Suggest a brief return to ridge conditions / dry later next week
Possibly more active weather by around the 20th of January



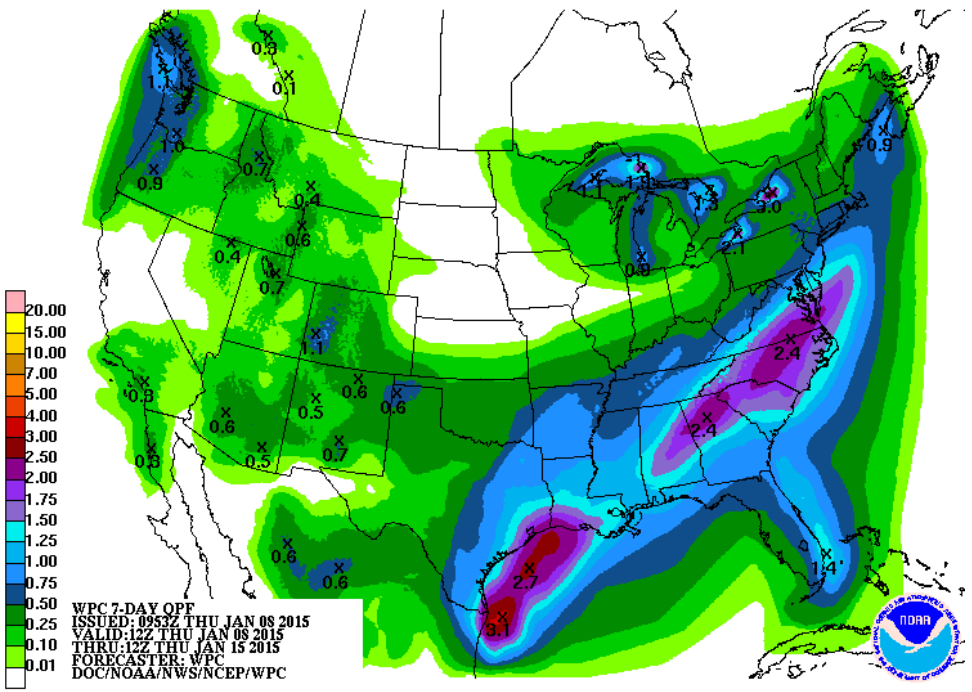
Quantitative Precipitation Forecast

Weather Prediction Center



5 Day Total
January 8-13

7 Day Total
January 8-15



www.wpc.ncep.noaa.gov

The prospect for El Nino: A 50-60% chance for next 2 months then neutral conditions thereafter.

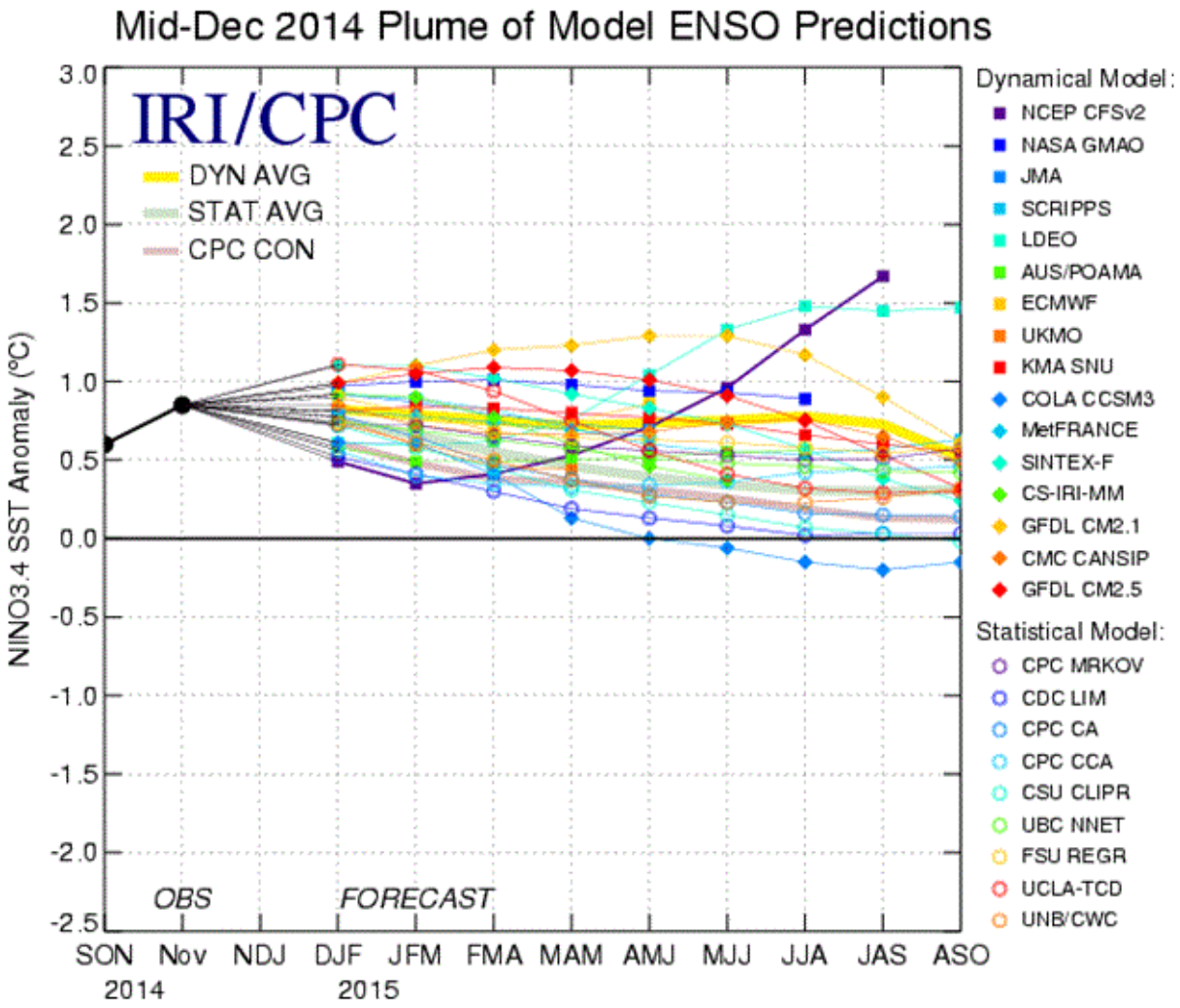
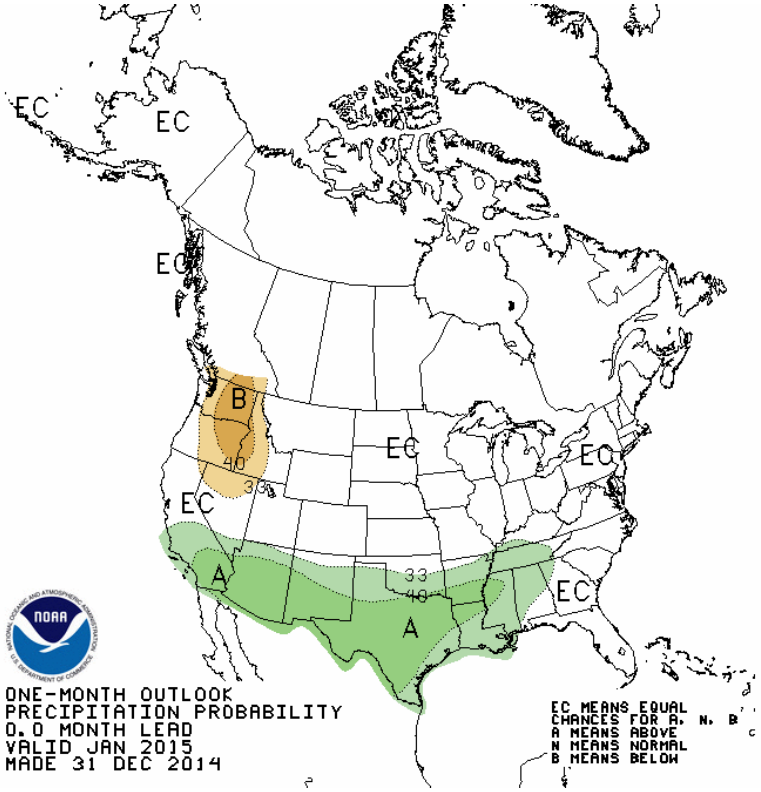


Figure 6. Forecasts of sea surface temperature (SST) anomalies for the Niño 3.4 region (5°N-5°S, 120°W-170°W). Figure updated 16 December 2014.

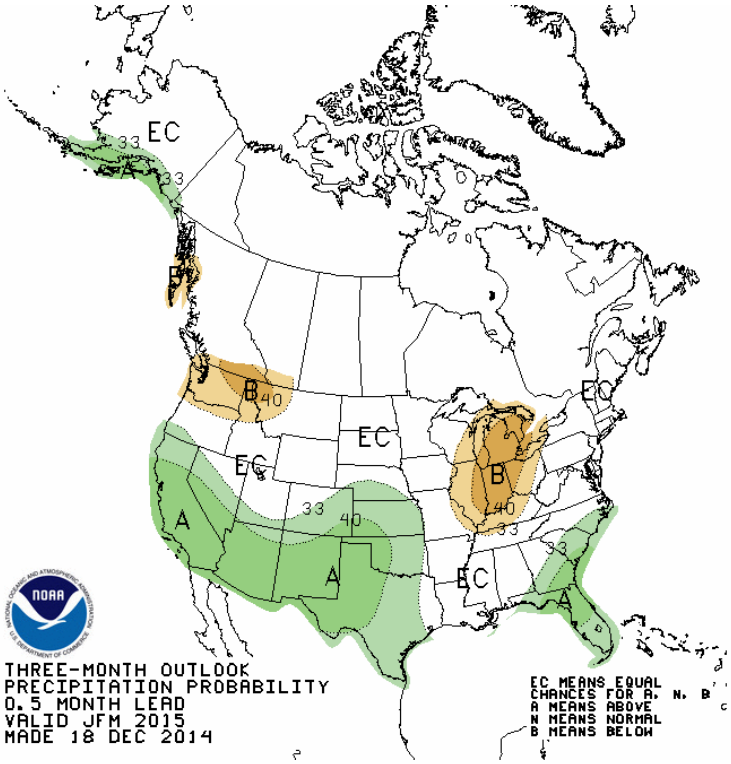
Long Term Precipitation Outlook

Climate Prediction Center

January 2015



January-March 2015



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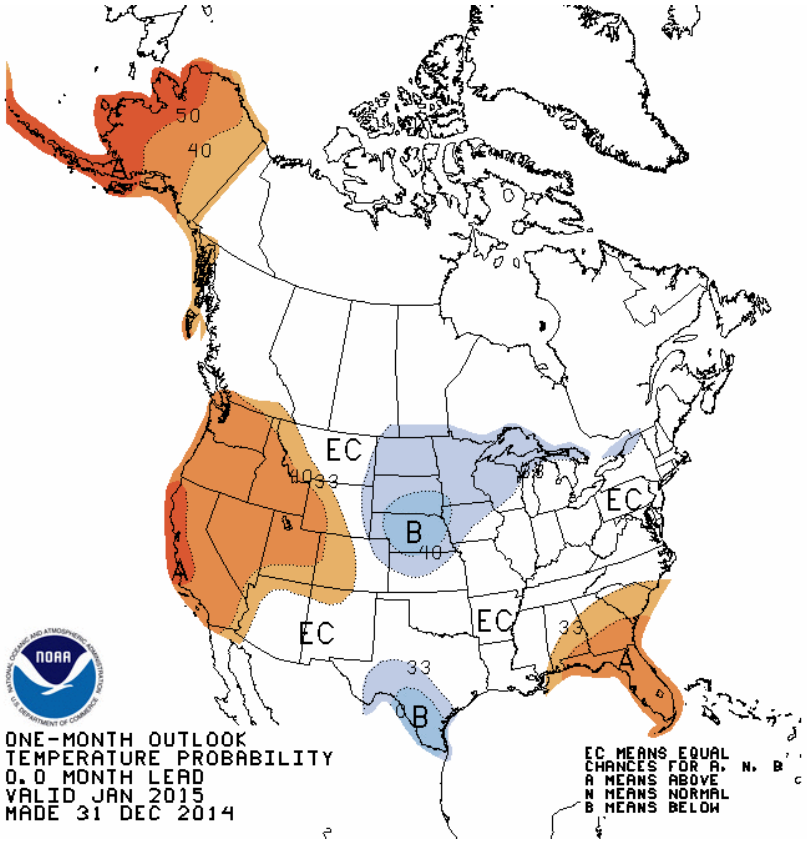
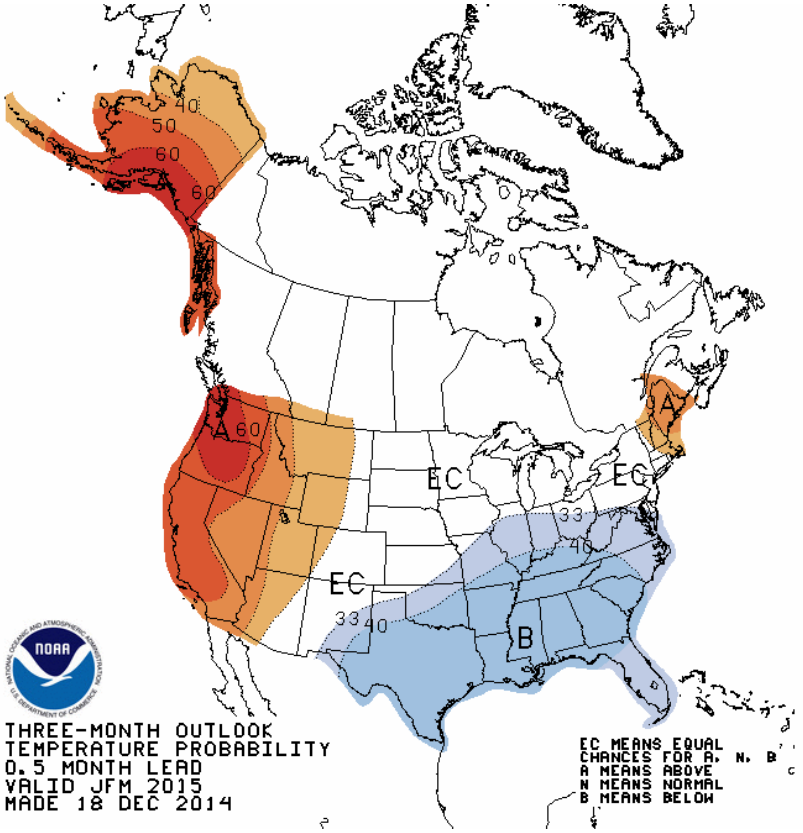
Spring Temperature Outlook

Climate Prediction Center

January 2015



January-March 2015



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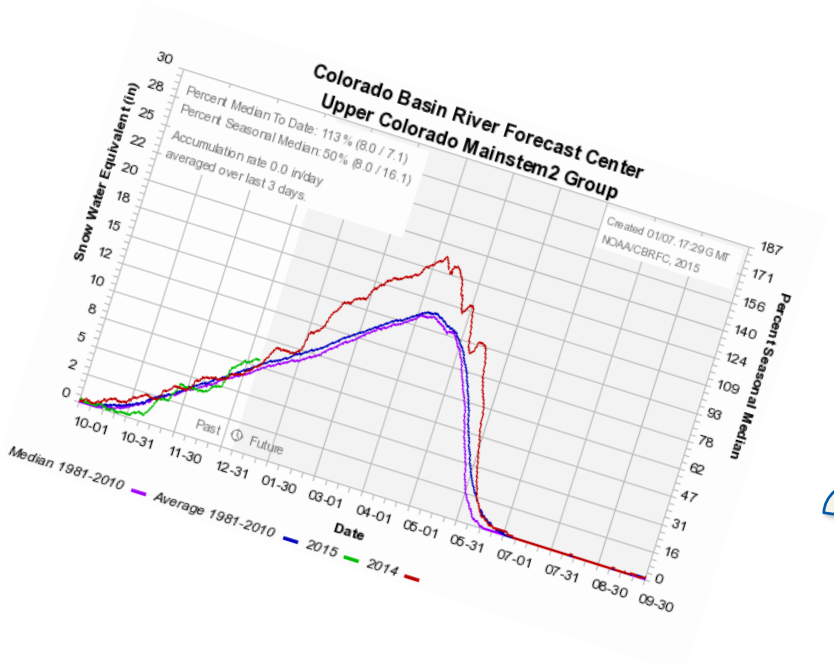
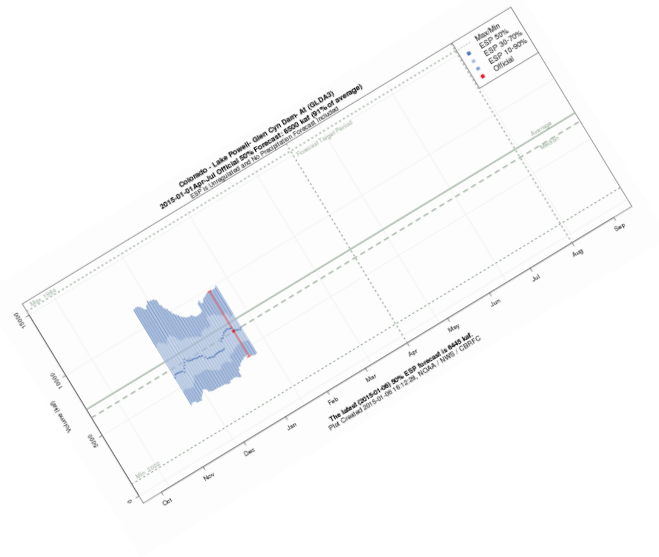
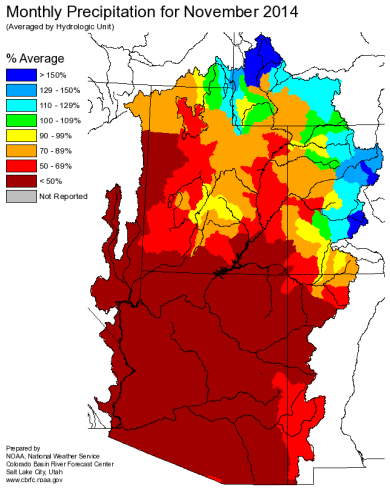
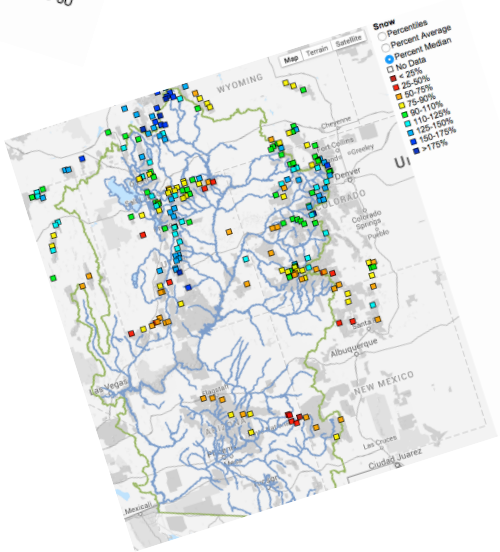
A mass of information – Where to find it ?

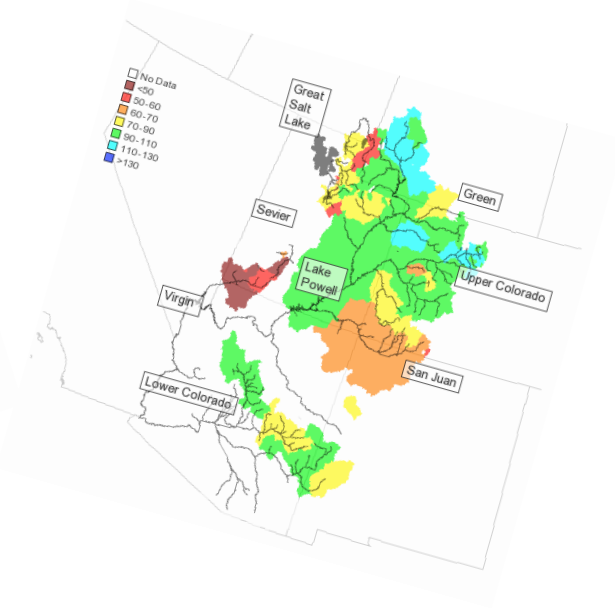




?







COLORADO BASIN RIVER FORECAST CENTER

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- Official Forecast Discussion
- Discussion Archive
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- Publication Archive
- Specific Site Archive
- ESP Forecast Map
- ESP Forecast List
- 2014 Verification Map
- Historical Verification Map
- Documentation
- Precipitation
- Temperature
- Soil Moisture
- Internal Tools
- Special Forecast Products

River Conditions

Data Qu… 09:55:01 -0700
Help, Do… 37.6 Lng: -110.5, Zoom: 6

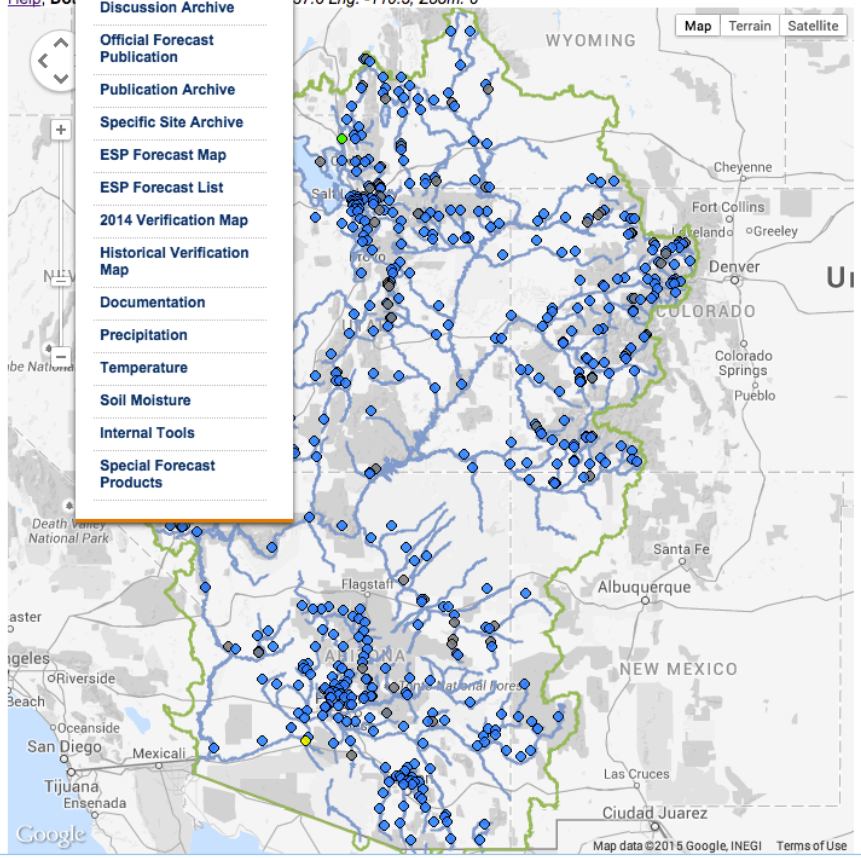
Search Points

Forecast Group
All Points

Overlays
- [x] Rivers
- [x] RFC Boundary
- [ ] Forecast Group
- [ ] Basin
- [ ] County
- [ ] County Warning Area
- [ ] Hydrologic Service Area

River Points
- [ ] All
- [ ] Data
- [x] Forecast
- [x] Reservoir
- [x] Official Flood
- [x] Active

Snow Sites
- [ ] All
- [ ] No Data
- [ ] No Average
- [ ] < 7000 ft
- [ ] 7000-8000 ft
- [ ] 8000-9000 ft
- [ ] 9000-10000 ft
- [ ] > 10000 ft



River
- No Data
- Normal
- Significant Rise
- Near Bankfull
- Above Bankfull
- Above Flood Stage
- Outlook (> 3 days)

Snow
- Percentiles
- Percent Average
- Percent Median
- No Data
- < 25%
- 25-50%
- 50-75%
- 75-90%
- 90-110%
- 110-125%
- 125-150%
- 150-175%
- >175%

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National Oceanic and Atmospheric Administration
Department of Commerce

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Peak Flow Map
Peak Flow List
Peak Flow Archive
Recreational Forecasts
5 Day Flood Outlook
Hydro Data
AHPS

SNOW
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Snow Groups

WATER SUPPLY
Official Forecast Map
Official Forecast List
Official Forecast Discussion
Discussion Archive
Official Forecast Publication
Publication Archive
Specific Site Archive
ESP Forecast Map
ESP Forecast List
2014 Verification Map
Historical Verification Map
Documentation
Precipitation
Temperature
Soil Moisture
Internal Tools
Special Forecast Products

RESERVOIRS
Conditions Map
Conditions List
Webcat
DamBreak

WEATHER
Forecast QPF
Observed Summary
Observed Precipitation
Observed Temperature
Observed Freezing Level
National Precip Forecast
Radar
Radar Bias
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Water Supply Webinar January 8th, 11am MST. Read More...
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Water Supply Forecasts

Official Forecast Date: 2015-1-1

Help, **Double Click Map to Zoom**, *Lat: 37.6 Lng: -110.5, Zoom: 6*

Search Points

Forecast Group

All Points

Overlays

- [x] Rivers
- [x] RFC Boundary
- [ ] Forecast Group
- [ ] Basin
- [ ] County
- [ ] County Warning Area
- [ ] Hydrologic Service Area

Snow Sites

- [ ] All
- [ ] No Data
- [ ] No Average
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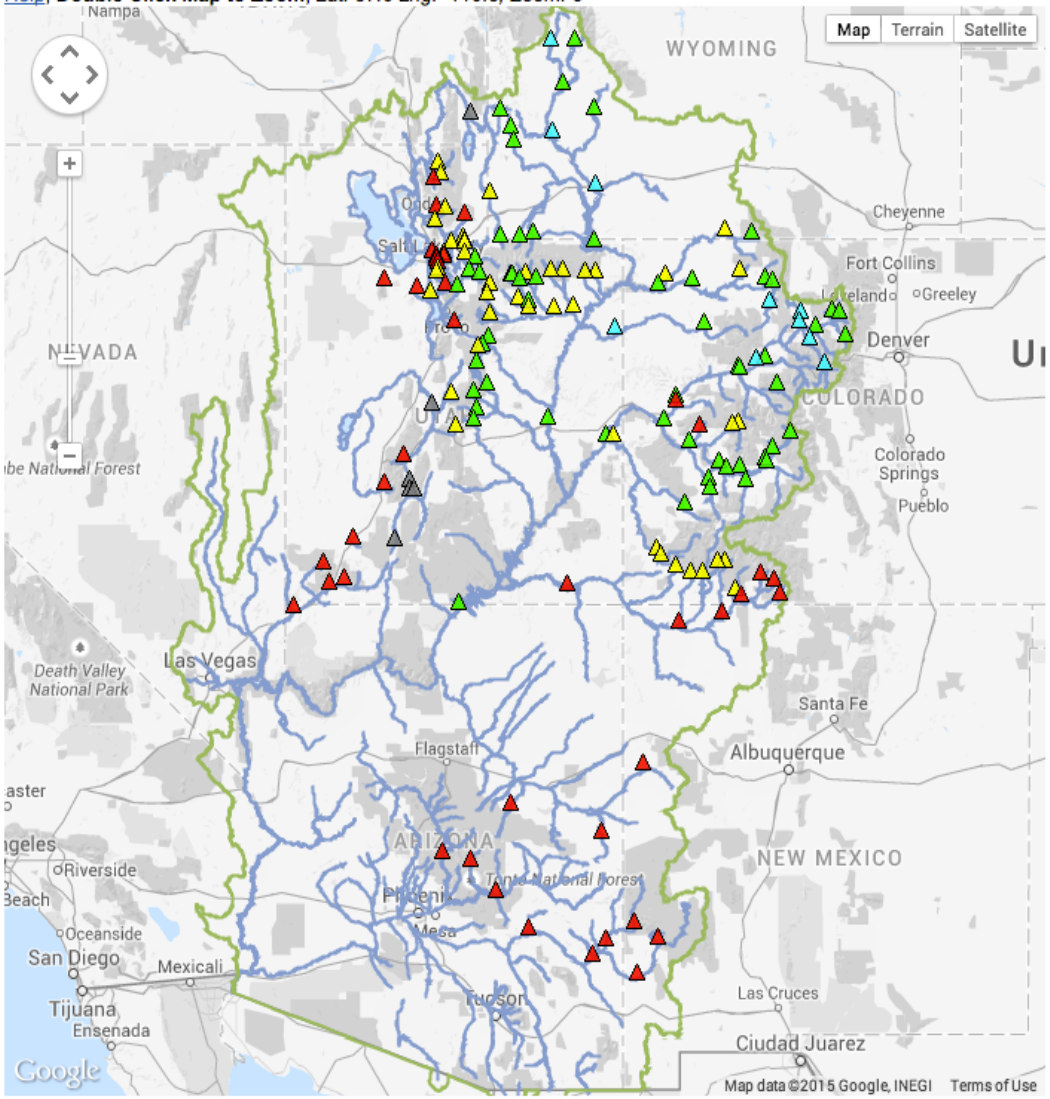
- [ ] 7000-8000 ft
- [ ] 8000-9000 ft
- [ ] 9000-10000 ft
- [ ] > 10000 ft



Water Supply Forecasts

- (•) Official Percent Average
- ( ) Official Percent Median
- ( ) ESP Percent Average
- ( ) ESP Percent Median
- ▲ < 70%
- △ 70-90%
- ▲ 90-110%
- △ 110-130%
- ▲ >130%
- ▲ Regulated
- △ No Forecast

Snow

- ( ) Percentiles
- ( ) Percent Average
- (•) Percent Median
- □ No Data
- ■ < 25%
- ■ 25-50%
- ■ 50-75%
- ■ 75-90%
- ■ 90-110%
- ■ 110-125%
- ■ 125-150%
- ■ 150-175%
- ■ >175%

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Water Supply Forecasts

Official Forecast Date: 2015-1-1

Help, **Double Click Map to Zoom**, *Lat: 37.6 Lng: -110.5, Zoom: 6*

Search Points

Forecast Group

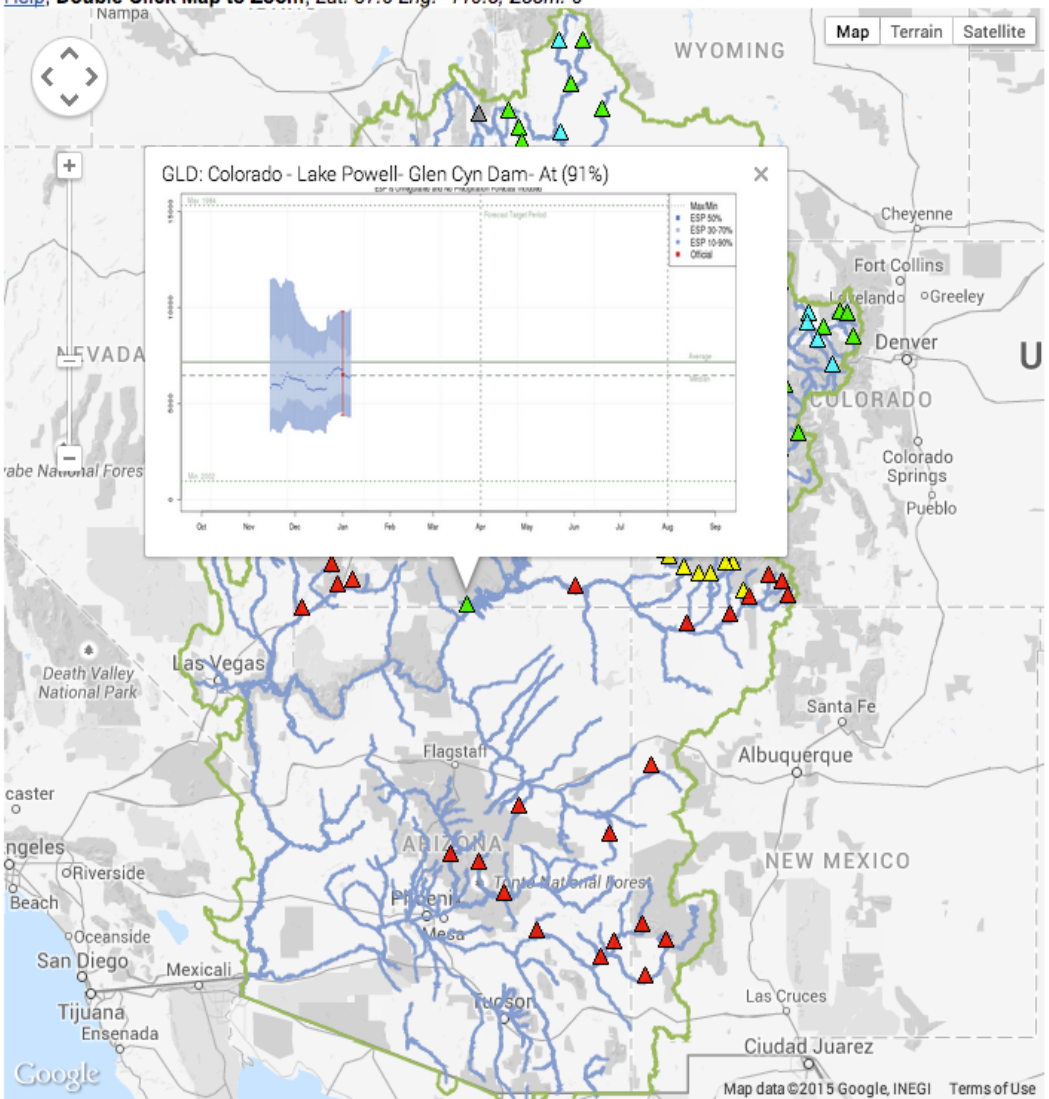
All Points

Overlays

- [x] Rivers
- [x] RFC Boundary
- [ ] Forecast Group
- [ ] Basin
- [ ] County
- [ ] County Warning Area
- [ ] Hydrologic Service Area

Snow Sites

- [ ] All
- [ ] No Data
- [ ] No Average
- [ ] < 7000 ft
- [ ] 7000-8000 ft
- [ ] 8000-9000 ft
- [ ] 9000-10000 ft
- [ ] > 10000 ft



Water Supply Forecasts

- (•) Official Percent Average
- ( ) Official Percent Median
- ( ) ESP Percent Average
- ( ) ESP Percent Median
- ▲ < 70%
- △ 70-90%
- ▲ 90-110%
- △ 110-130%
- ▲ >130%
- ▲ Regulated
- △ No Forecast

Snow

- ( ) Percentiles
- ( ) Percent Average
- (•) Percent Median
- □ No Data
- ■ < 25%
- ■ 25-50%
- ■ 50-75%
- ■ 75-90%
- ■ 90-110%
- ■ 110-125%
- ■ 125-150%
- ■ 150-175%
- ■ >175%

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News

Water Supply Webinar January 8th, 11am MST. Read More...
CBRFC presentation are posted here. Read More...
CBRFC Webinars are posted here. Read More...

Water Supply Ofiicial Forecast List

Download Data | Requery | Rebuild Plots

Water Supply Volume Percent Average/Median Condition
▲<70 ▲70-90 ▲90-110 ▲110-130 ▲>130 ▲Regulated

Options (on/off): Plot
Area: CBRFC Green Colorado San Juan Great Sevier Virgin Low Col WGRFC ABRFC

Columns (on/off): Area Sub Area NWS ID DS River Location Forecast Date Avg Cond Med Cond Forecast Period Min 90 MP 50 Max 10 Avg Med Pct Avg Pct Med

Click column heading to sort by that data. Click ID to view point info. Click Area, Sub Area, or Forecast Period to show only those points.

	Area	Sub Area	NWS ID	River	Location	Forecast Date	Avg Cond	Med Cond	Forecast Period	Min 90	MP 50	Max 10	Avg	Med	Pct Avg	Pct Med
1	Green	Upper	WBRW4	Green	Daniel	2015-1-1	△	△	Apr 01-Jul 31	176	**275**	375	245	220	*112*	*125*
2	Green	Upper	FRAW4	Pine Ck	Fremont Lk	2015-1-1	▲	▲	Apr 01-Jul 31	70	**100**	130	98	94	*102*	*106*
3	Green	Upper	BPNW4	New Fork	Big Piney	2015-1-1	▲	▲	Apr 01-Jul 31	230	**345**	535	355	315	*97*	*110*
4	Green	Upper	GBRW4	Green	Fontenelle Res	2015-1-1	△	△	Apr 01-Jul 31	475	**800**	1220	725	650	*110*	*123*
5	Green	Upper	BSRW4	Big Sandy	Farson	2015-1-1	▲	▲	Apr 01-Jul 31	29	**48**	72	52	47	*92*	*102*
6	Green	Upper	GRRW4	Green	Green River	2015-1-1	△	△	Apr 01-Jul 31	475	**805**	1270	730	630	*110*	*128*
7	Green	Upper	SLRW4	Ef Smiths Fork	Stateline Res	2015-1-1	▲	▲	Apr 01-Jul 31	15	**24**	32	26	23	*92*	*104*
8	Green	Upper	BNRU1	Blacks Fork	Robertson	2015-1-1	▲	▽	Apr 01-Jul 31	50	**82**	115	89	93	*92*	*88*
9	Green	Upper	HMFW4	Hams Fork	Frontier	2015-1-1	▲	△	Apr 01-Jul 31	30	**55**	86	54	47	*102*	*117*
10	Green	Upper	VIVW4	Hams Fork	Viva Naughton Res	2015-1-1	▲	△	Apr 01-Jul 31	44	**76**	125	74	63	*103*	*121*
11	Green	Upper	GRNU1	Green	Flaming Gorge Res	2015-1-1	▲	△	Apr 01-Jul 31	600	**1000**	1690	980	830	*102*	*120*
12	Green	Yampa/White	YASC2	Yampa	Stagecoach Rsvr	2015-1-1	△	△	Apr 01-Jul 31	16	**26**	36	23	21	*113*	*124*
13	Green	Yampa/White	STMC2	Yampa	Steamboat Springs	2015-1-1	▲	△	Apr 01-Jul 31	180	**280**	370	260	250	*108*	*112*
14	Green	Yampa/White	ENMC2	Elk	Milner	2015-1-1	▲	▲	Apr 01-Jul 31	225	**350**	430	320	325	*109*	*108*
15	Green	Yampa/White	ELHC2	Elkhead Ck	Long Gulch	2015-1-1	▽	▽	Apr 01-Jul 31	32	**65**	88	73	76	*89*	*86*
16	Green	Yampa/White	MBLC2	Yampa	Maybell	2015-1-1	▲	▲	Apr 01-Jul 31	545	**950**	1200	935	895	*102*	*106*
17	Green	Yampa/White	LSRC2	Little Snake	Slater	2015-1-1	▲	▲	Apr 01-Jul 31	82	**145**	196	156	154	*93*	*94*
18	Green	Yampa/White	LSDW4	Little Snake	Dixon	2015-1-1	▽	▽	Apr 01-Jul 31	144	**275**	435	345	360	*80*	*76*
19	Green	Yampa/White	LILC2	Little Snake	Lily	2015-1-1	▽	▲	Apr 01-Jul 31	140	**285**	480	345	300	*83*	*95*
20	Green	Yampa/White	YDLC2	Yampa	Deerlodge Park	2015-1-1	▲	▲	Apr 01-Jul 31	665	**1200**	1600	1240	1170	*97*	*103*
21	Green	Yampa/White	WRMC2	White	Meeker	2015-1-1	▲	△	Apr 01-Jul 31	200	**295**	355	280	265	*105*	*111*
22	Green	Yampa/White	WATU1	White	Watson	2015-1-1	△	▲	Apr 01-Jul 31	215	**310**	380	280	285	*111*	*109*
23	Green	Duchesne	BRUU1	Big Brush Ck	Vernal	2015-1-1	▽	▽	Apr 01-Jul 31	10.7	**15**	24	21	19.9	*71*	*75*
24	Green	Duchesne	ASHU1	Ashley Ck	Vernal	2015-1-1	▽	▽	Apr 01-Jul 31	20	**36**	62	50	44	*72*	*82*
25	Green	Duchesne	WTRU1	Whiterocks	Whiterocks	2015-1-1	▽	▽	Apr 01-Jul 31	25	**39**	65	54	47	*72*	*83*
26	Green	Duchesne	NEUU1	Uinta	Neola	2015-1-1	▽	▲	Apr 01-Jul 31	40	**65**	97	74	62	*88*	*105*
27	Green	Duchesne	YLLU1	Yellowstone	Altonah	2015-1-1	▲	▲	Apr 01-Jul 31	38	**57**	75	61	58	*93*	*98*

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News

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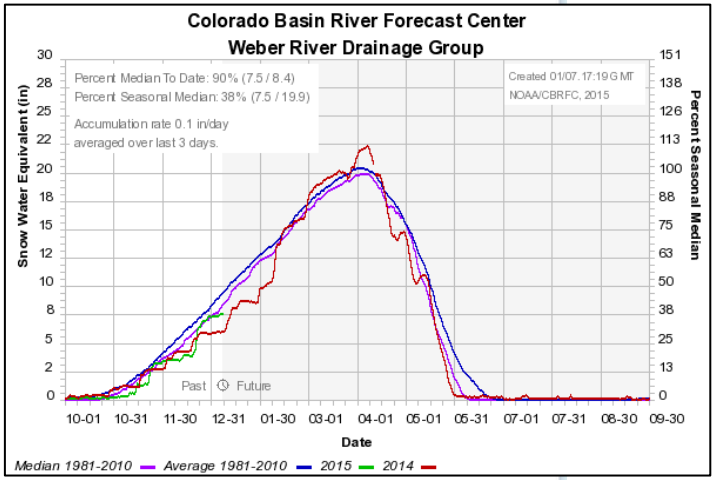
Snow Groups

Raw SNOTEL data from NRCS.

Great Basin

Bear River Drainage (bulu1 fbni1 hfku1 kllw4 llku1 lbnu1 ltbu1 mcru1 tglu1 oxsi1 sepi1 dpbu1)
Bear River Headwaters (hfku1 llku1 chcu1)
Bear River below Woodruff (dbpu1 mcru1 bulu1 kllw4 givi1 fbni1)
Beaver Minersville (bgfu1 mvyu1)
Clear Creek Sevier (kmnu1)
Cottonwood Canyons (mldu1 briu1 sbdu1)
Logan BlacksFork Little Bear Basins (bulu1 tglu1 fbni1)
Ogden River Drainage (blpu1 bltu1 dbpu1 hrgu1 ltbu1 mcru1)
Provo River Basin (trlu1 dstu1 nwyu1 stdu1 timu1)
Sevier River Basin Blo Piute (mcdu1 rpru1 seeu1 bvdu1 pklu1)
Sevier River Basin Headwaters (wflu1 mdvu1 cvyu1 lvju1 hrsu1 wstu1 bgfu1)
Sevier River Drainage (mdvu1 bxcu1 frlu1 pklu1 cvyu1 wstu1 kmnu1 pcku1 mcdu1 bvdu1 hrsu1 lvju1)
Six Creeks Headwaters (lopu1 psuu1 mldu1 briu1 sbdu1 thcu1 timu1 rbsu1)
Smith Fork Bear Basin (cllw4 sltw4 kllw4 incw4)
Spanish Fork Drainage (clcu1 crku1 pysu1 wrvu1 stdu1)
Utah Lake Drainage (clcu1 crku1 cucu1 dstu1 nwyu1 pysu1 rbsu1 timu1 trlu1 wrvu1)
Weber Basin Headwaters (smmu1 trlu1 ccku1 chcu1)
Weber River Drainage (blpu1 bltu1 ccku1 chcu1 dbpu1 hrgu1 fmnu1 mcru1 trlu1 thcu1 nwyu1 smmu1 psuu1 haru1)



Lower Colorado

Central Mogollon Rim (proa3 bkba3)
Gila River (cnda3 frdn5 scdn5 lktn5 sgnn5 hnma3)
LC Southern Headwaters (bbsa3 blda3 hbea3 mvfa3)
Little Colorado River (bkba3 blda3 mvfa3 mbea3 proa3)
Lower Colorado (whla3 frya3 mrma3 bkba3 proa3 wkma3 blda3 mvfa3 wcta3 hnma3 cnda3 sgnn5 lktn5)
Salt (mvfa3 cnda3 wcta3 xbha3)
Salt River (blda3 cnda3 hnma3 mvfa3 wcta3)
San Francisco (frdn5 cnda3 xbha3)
Upper Gila (scdn5 lktn5 sgnn5)
Upper Salt (mvfa3 cnda3 wcta3 xbha3)
Verde (whla3 bkba3 frya3 mrma3)
Verde River (bkba3 frya3 mrma3 whla3)
virgin (cvyu1 hrsu1 lgcu1 lgfu1 mdvu1)

Green River

Duchesne River (icyu1 wrvu1 stdu1 dstu1 cucu1 trlu1 rcku1 lbnu1 bndu1 lkfu1 fplu1 cwhu1 mmtu1)
Flaming Gorge-North Slope (hewu1 hiru1 hpsu1 scku1)
Green River Basin (kndw4 hmkw4 erdw4 sniw4 kllw4 lopw4 nflw4 trpw4 grvw4 scdw4 bgsw4 kgcu1 hpsu1 hiru1 ekpw4 incw4 tcku1 hewu1 scku1 rcku1 cucu1 dstu1 stdu1 wrvu1 kgcu1 icyu1 mmtu1 trlu1 lkfu1 cwhu1 bndu1 fplu1 lbnu1 btlw4 blsc2 burc2 colc2 crsc2 dvdw4 drlc2 elkc2 lync2 oldw4 resc2 rcpc2 srsw4 towc2 tlsc2 wpkw4 seeu1 bufu1 rpru1 clcu1 mcdu1 wrvu1)
Green abv Fontenelle (sniw4 scdw4 trpw4 bbsw4 erdw4 lopw4 grvw4 kndw4 nflw4 ekpw4)
Ham's Fork (kllw4 hmkw4 incw4)
Little Snake (btlw4 dvdw4 oldw4 srsw4 wpkw4)
Price-San Rafael (bufu1 mcdu1 rpru1 seeu1 wrvu1 clcu1 dcpu1)
Upper Green (sniw4 scdw4 trpw4 bbsw4 erdw4 lopw4 grvw4 kndw4 nflw4 ekpw4 bgsw4 incw4 kllw4 hmkw4 hewu1 hiru1 scku1 hpsu1)
White (blsc2 burc2 rcpc2 tlsc2)
Wind Rivers (bgsw4 ekpw4 kndw4 nflw4)
Yampa-White (dvdw4 oldw4 srsw4 btlw4 wpkw4 elkc2 towc2 drlc2 resc2 crsc2 blsc2 burc2 rcpc2 tlsc2)

2015 Forecast Webinar Schedule

February 5 at 1 pm MT
March 5 at 11 a1 pm MT
April 7 at 11am MT
May 7 at 11am MDT

Registration available:
www.cbrfc.noaa.gov/news/wswebinar2015.html

Feedback Is Appreciated

Please contact us with any specific questions

- Key Water Supply Contacts:
  - Michelle Stokes (Hydrologist in Charge)
  - Brenda Alcorn (Upper Colorado)
  - Ashley Nielson (Green + Yampa / White)
  - Greg Smith (San Juan + Gunnison + Dolores)
  - Paul Miller (Great Basin – Bear, Weber, Provo, Six-Creeks/Jordan)
  - Tracy Cox (Lower Colorado + Virgin + Sevier)