

Division of WATER RESOURCES

Humboldt River

Lovelock & Winnemucca May 13, 2015

Elko May 14, 2015

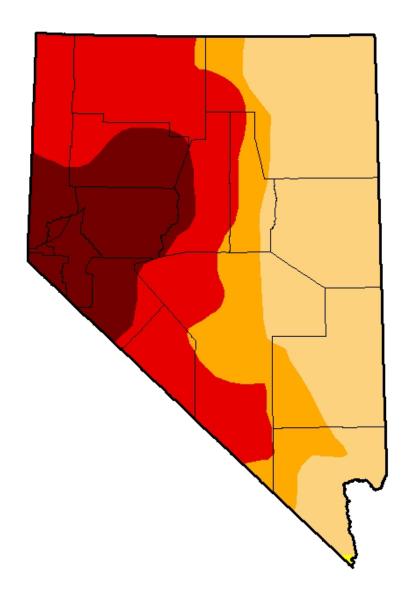
CONSERVATION & NATURAL RESOURCES



Topics

- Drought Monitor and Precipitation Update
- Current stream flows and Rye Patch Reservoir Storage
- Meter Order and Designation Orders
- Q&A with Water Commissioners Kirk Owsley and Steve DelSoldato
- Capture Model Update
- Walker River Curtailment
- Concluding Remarks
- Next Meeting
- Open Discussion

U.S. Drought Monitor Nevada



February 3, 2015

(Released Thursday, Feb. 5, 2015) Valid 7 a.m. EST

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	0.00	100.00	99.93	63.08	47.95	17.43
Last Week 1/27/2015	0.00	100.00	99.93	68.25	50.06	17.43
3 Months Ago 11/4/2014	0.00	100.00	97.07	69.89	48.38	11.89
Start of Calendar Year 12302014	0.00	100.00	96.98	68.25	48.38	11.89
Start of Water Year 930/2014	0.00	100.00	97.04	69.89	48.38	11.89
One Year Ago 2/4/2014	0.00	100.00	96.80	80.30	38.17	5.37

Intensity:

D0 Abnormally Dry

D1 Moderate Drought

D2 Severe Drought

D3 Extreme Drought

D4 Exceptional Drought

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

Author:

Brian Fuchs National Drought Mitigation Center





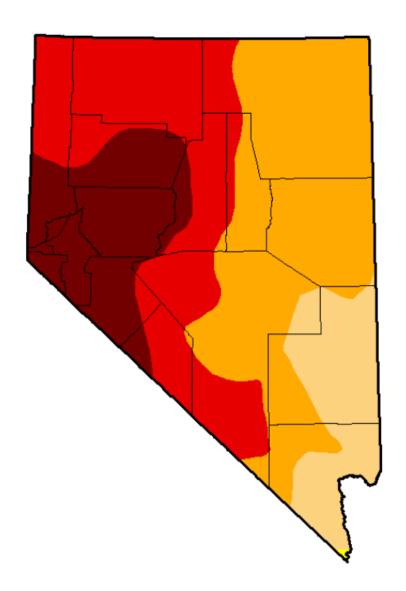




http://droughtmonitor.unl.edu/

U.S. Drought Monitor

Nevada



May 5, 2015

(Released Thursday, May. 7, 2015) Valid 7 a.m. EST

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Сигтепт	0.00	100.00	99.93	87.00	49.21	18.38
Last Week 428/2015	0.00	100.00	99.93	87.00	49.21	18.38
3 Months Ago 23/2015	0.00	100.00	99.93	63.08	47.95	17.43
Start of Calendar Year 12302014	0.00	100.00	96.98	68.25	48.38	11.89
Start of Water Year 930/2014	0.00	100.00	97.04	69.89	48.38	11.89
One Year Ago 56/2014	0.00	100.00	100.00	84.40	38.73	8.24

Intensity:



The Drought Monitor focuses on broad-scale conditions.

Local conditions may vary. See accompanying text summary for forecast statements.

Author:

Mark Svoboda National Drought Mitigation Center

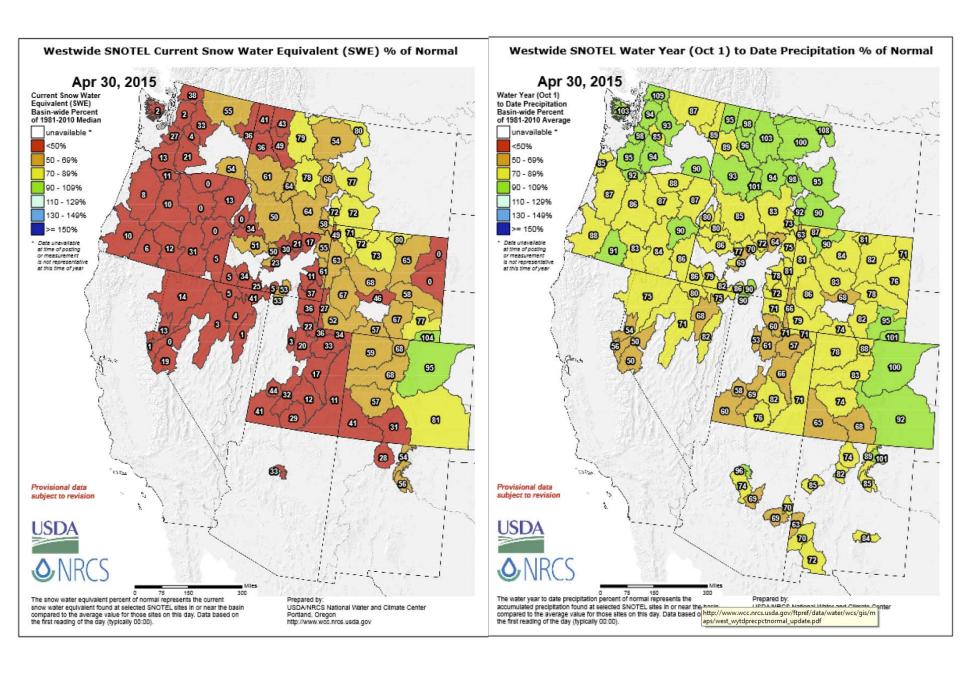








http://droughtmonitor.unl.edu/



Current Stream Flows/Rye Patch Storage

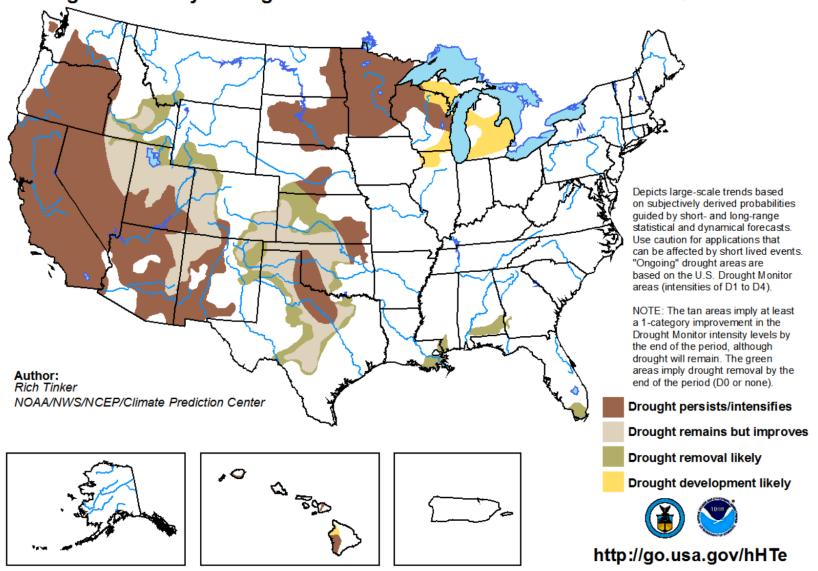
http://waterdata.usgs.gov/nv/nwis/current/?type=flow

May 12, 2015

	Long Term Average Flow (cfs)	Current Discharge (cfs)	
Humboldt River at Palisade	915	162	
Humboldt River at Comus	736	92	
Humboldt River at Imlay	586	15	
		Current	
	Capacity	Storage	
	(KAF)	(KAF)	
Rye Patch Reservoir	194.3	9.6	



Valid for April 16 - July 31, 2015 Released April 16, 2015



Recent Orders – Basin Designations

- 1241 Pumpernickel Valley
- 1242 Little Humboldt Valley
- 1253 Lovelock Valley
- 1254 Carico Lake Valley
- 1255 Upper Reese River Valley
- 1256 Antelope Valley
- 1257 Middle Reese River Valley
- 1258 Hardscrabble Area
- 1259 Paradise Valley
- 1260 Rock Creek Valley
- 1261 Willow Creek Valley

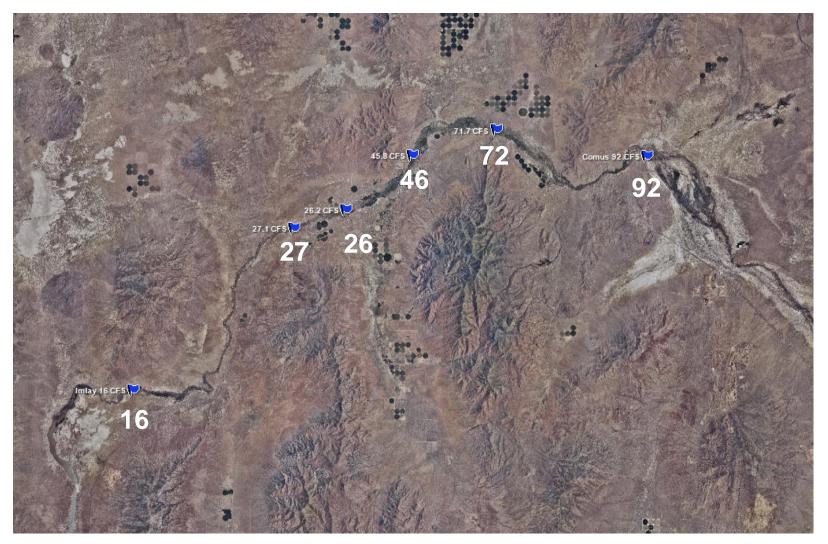
Other Recent Orders

- 1246 Closes Winnemucca Segment to new appropriations
- 1247 Closes Grass Valley to new appropriations
- 1251 Meter requirement for Humboldt River Basin groundwater wells

Water Commissioner Discussions

- Tributary measurements/illegal diversions
- Diversified pasture deliveries
- Priorities/Exceptions
- Current status

Humboldt Flows 5/12/15



Flow (cfs) measured by NDWR and USGS

Capture Model Update

- Now in design phase with USGS and DRI
- Update and adapt existing models to reduce time to completion
- Estimated time to completion: 4 years
- Will provide opportunity for stakeholder input

Walker River Basin Groundwater Curtailment

- Approximately 180,000 acre-feet of groundwater pumping in Smith and Mason Valleys in 2014
- Cumulative PY of 42,000 acre-feet
- Widespread groundwater-level declines of 8-12 feet per year over last 3 years
- Hundreds of wells, including domestic wells, at risk of possible failure if water levels continue to decline at similar rates
- Data shows water table will recover with reduced pumping and/or increased stream water supply

Walker Curtailment

- Order 1250 curtailment of 50% of pumping from all supplemental irrigation groundwater rights in Smith and Mason Valleys
- Order appealed by local farmers (FACO)
- Order of preliminary injunction issued in district court
- Hearing scheduled for October

Concluding Remarks

- Conditions have not improved since
 January unprecedented drought
- Will not deliver to diversified pasture in 2015
- Curtailment of groundwater pumping in Humboldt Basin will not provide significant additional flows

Next Meeting

November 2015 ???

NRCS Snotel data and Streamflow Forecasts:

www.nv.nrcs.usda.gov/snow/

NWS Climate Forecasts:

www.cpc.ncep.noaa.gov/

United States Drought Monitor:

http://droughtmonitor.unl.edu/Home/StateDroughtMonitor

