

Trinity River WY 2015 Flow Recommendations

TMC

March 16 2015



UNITED STATES DEPARTMENT OF THE INTERIOR
U.S. BUREAU OF RECLAMATION-CENTRAL VALLEY PROJECT-CALIFORNIA

DAILY CVP WATER SUPPLY REPORT

MARCH 25, 2015

RUN DATE: March 26, 2015

STORAGE IN MAJOR RESERVOIRS IN THOUSANDS OF ACRE-FEET

RESERVOIR	CAPACITY	15YR AVG	WY 2014	WY 2015	% OF 15 YR AVG
TRINITY	2,448	1,755	1,293	1,184	67
SHASTA	4,552	3,532	2,086	2,672	76
OROVILLE (SWP)	3,538	2,357	1,627	1,787	76
FOLSOM	977	609	409	573	94
NEW MELONES	2,420	1,544	1,048	574	37
FED. SAN LUIS	966	800	470	396	49
MILLERTON	520	341	169	0	0
TOT. N. CVP	11,360	8,240	5,306	5,399	66

ACCUMULATED INFLOW FOR WATER YEAR TO DATE IN THOUSANDS OF ACRE-FEET

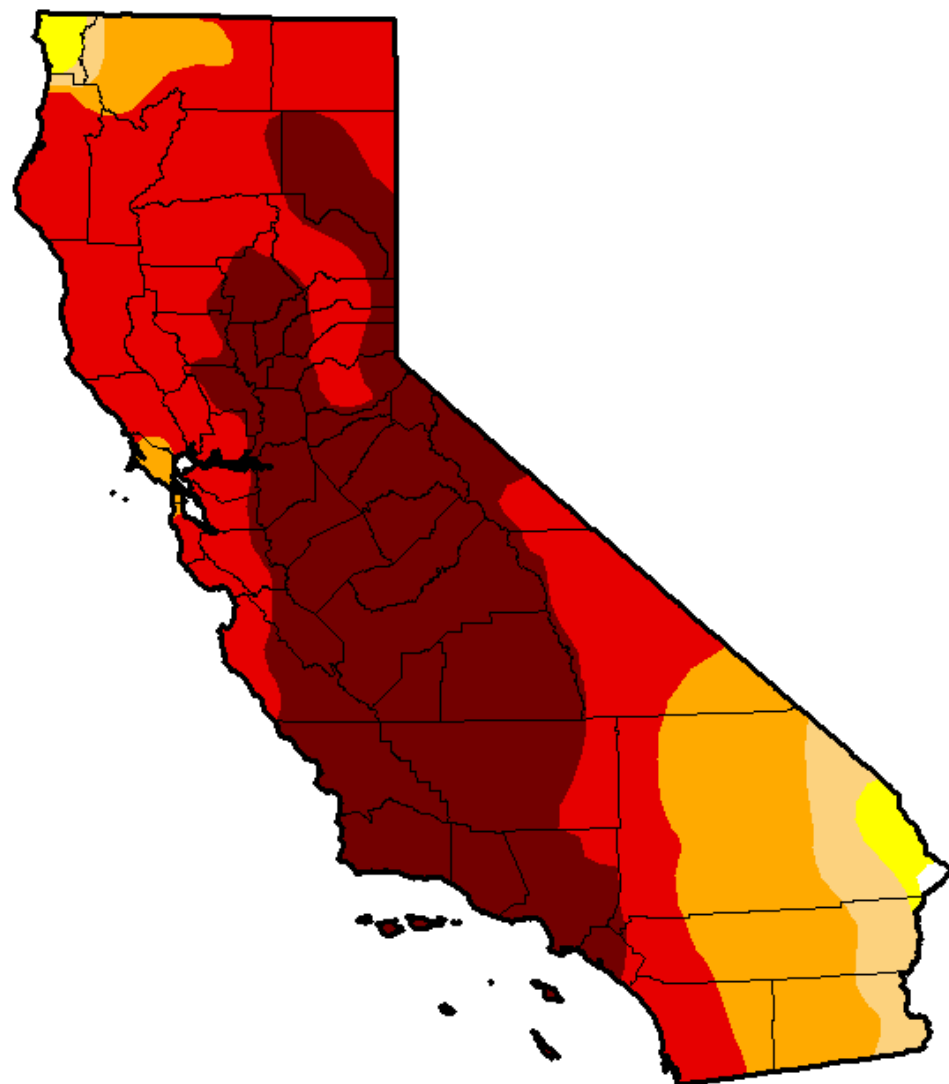
RESERVOIR	CURRENT WY 2015	DRIEST WY 1977	WETTEST WY 1983	15 YR AVG	% OF 15 YR AVG
TRINITY	744	73	1,162	533	139
SHASTA	2,547	1,351	6,574	2,855	89
FOLSOM	577	189	3,355	1,012	57
NEW MELONES	201	0	1,089	353	57
MILLERTON	85	107	1,529	383	22

ACCUMULATED PRECIPITATION FOR WATER YEAR TO DATE IN INCHES

RESERVOIR	CURRENT WY 2015	DRIEST WY 1977	WETTEST WY 1983	AVG (N YRS)	% OF AVG	LAST 24 HRS
TRINITY AT FISH HATCHERY	23.52	8.94	47.73	26.38 (53)	89	0.00

U.S. Drought Monitor California

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	0.16	99.84	98.13	93.57	77.46	39.99
Last Week <i>1/27/2015</i>	0.00	100.00	98.13	94.34	77.52	39.99
3 Months Ago <i>11/4/2014</i>	0.00	100.00	99.71	94.42	79.69	55.08
Start of Calendar Year <i>12/31/2014</i>	0.00	100.00	98.12	94.34	77.94	32.21
Start of Water Year <i>9/30/2014</i>	0.00	100.00	100.00	95.04	81.92	58.41
One Year Ago <i>2/4/2014</i>	1.43	98.57	94.18	89.91	67.13	9.81

Intensity:

 D0 Abnormally Dry	 D3 Extreme Drought
 D1 Moderate Drought	 D4 Exceptional Drought
 D2 Severe 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



U.S. Drought Monitor California

March 24, 2015

(Released Thursday, Mar. 26, 2015)

Valid 7 a.m. EST

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	0.15	99.85	98.11	93.44	66.60	41.41
Last Week <i>3/17/2015</i>	0.16	99.84	98.11	93.44	67.46	39.92
3 Months Ago <i>12/23/2014</i>	0.00	100.00	98.41	94.42	77.94	32.21
Start of Calendar Year <i>12/30/2014</i>	0.00	100.00	98.12	94.34	77.94	32.21
Start of Water Year <i>9/30/2014</i>	0.00	100.00	100.00	95.04	81.92	58.41
One Year Ago <i>3/25/2014</i>	0.00	100.00	99.80	95.21	71.78	23.42

Intensity:

 D0 Abnormally Dry	 D3 Extreme Drought
 D1 Moderate Drought	 D4 Exceptional Drought
 D2 Severe Drought	

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

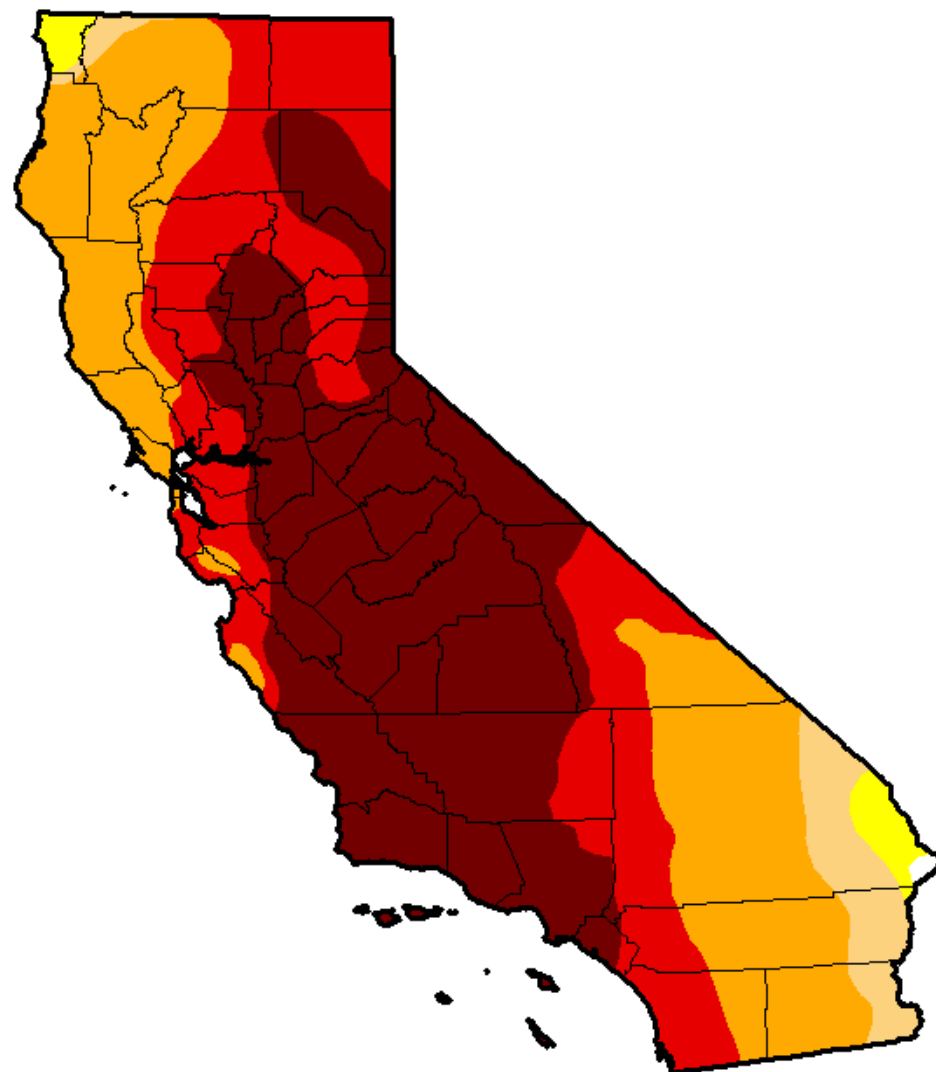
Author:

Eric Luebehusen

U.S. Department of Agriculture



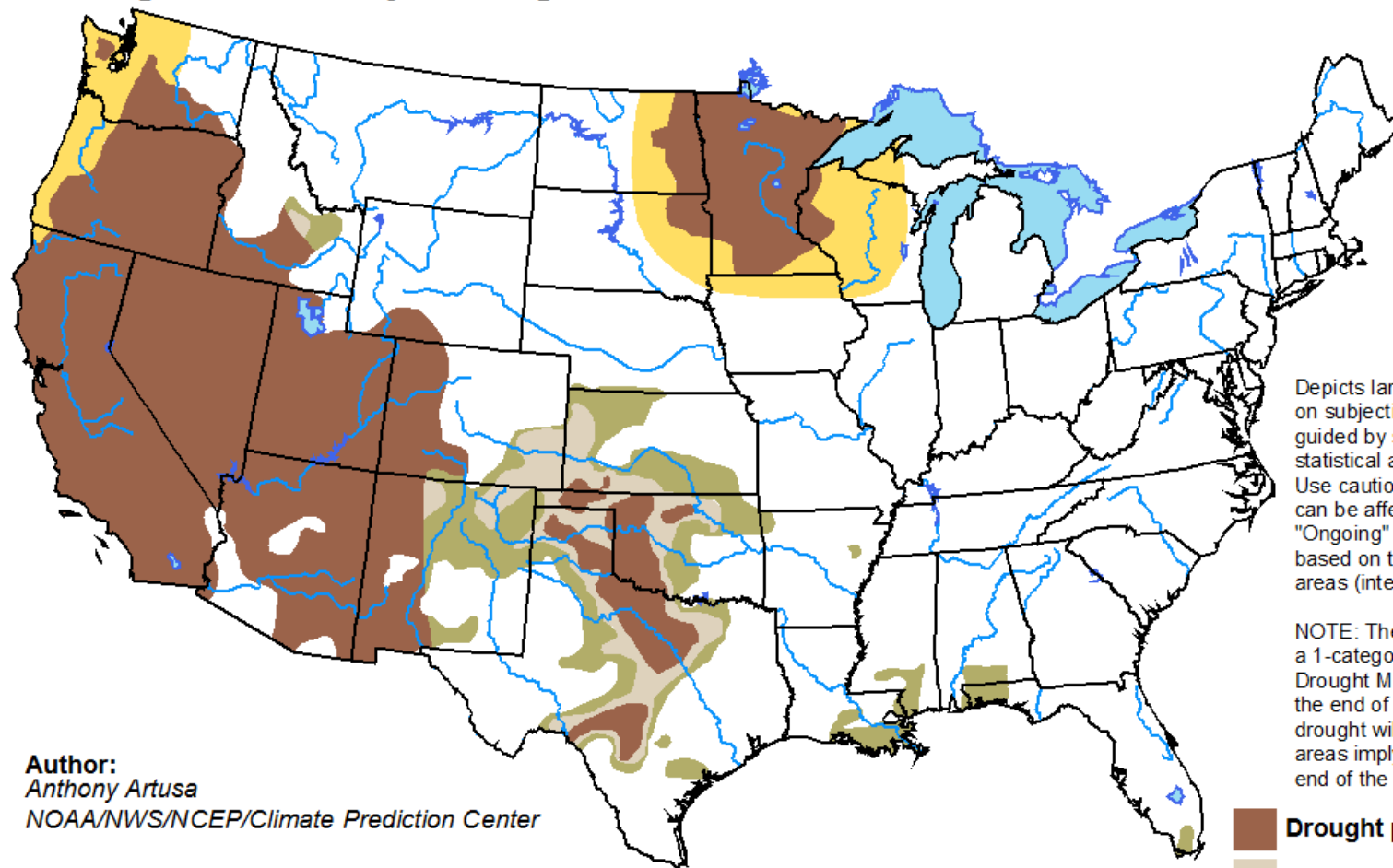
<http://droughtmonitor.unl.edu/>



U.S. Seasonal Drought Outlook

Drought Tendency During the Valid Period

Valid for March 19 - June 30, 2015
Released March 19, 2015

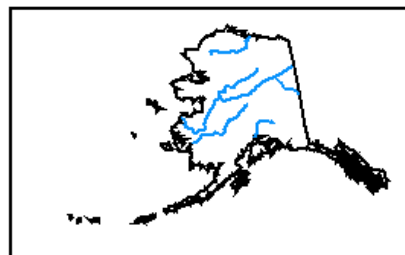


Author:
Anthony Artusa
NOAA/NWS/NCEP/Climate Prediction Center

Depicts large-scale trends based on subjectively derived probabilities guided by short- and long-range statistical and dynamical forecasts. Use caution for applications that can be affected by short lived events. "Ongoing" drought areas are based on the U.S. Drought Monitor areas (intensities of D1 to D4).

NOTE: The tan areas imply at least a 1-category improvement in the Drought Monitor intensity levels by the end of the period, although drought will remain. The green areas imply drought removal by the end of the period (D0 or none).

-  Drought persists/intensifies
-  Drought remains but improves
-  Drought removal likely
-  Drought development likely



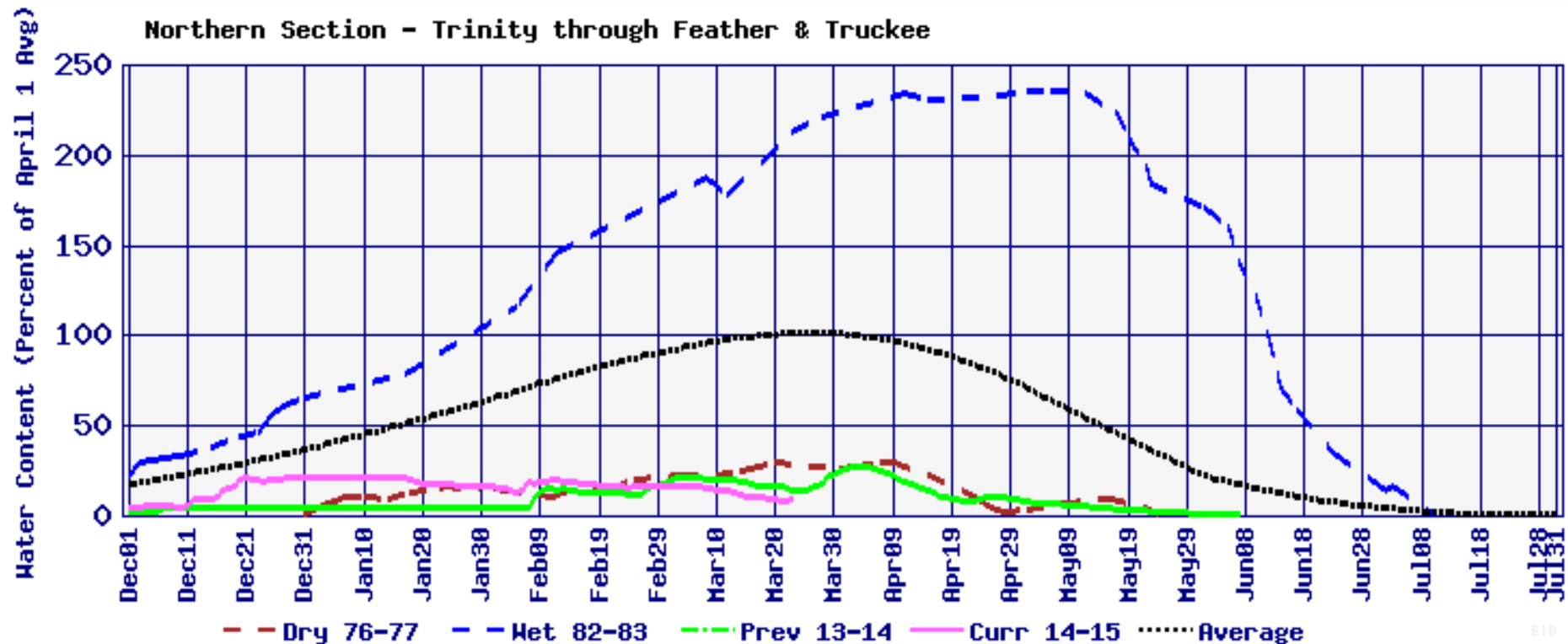
<http://go.usa.gov/hHTe>

CDEC Northern California Snow Pack (8%) of April 1

California Snow Water Content

PERCENT OF APRIL 1 AVERAGE, MARCH 24, 2015

Northern Section - Trinity through Feather & Truckee



CDEC Trinity River Basin Snow Pack

Daily Snow Sensor Report

March 24, 2015

Provided by the California Cooperative Snow Surveys for selected automatic reporting snow

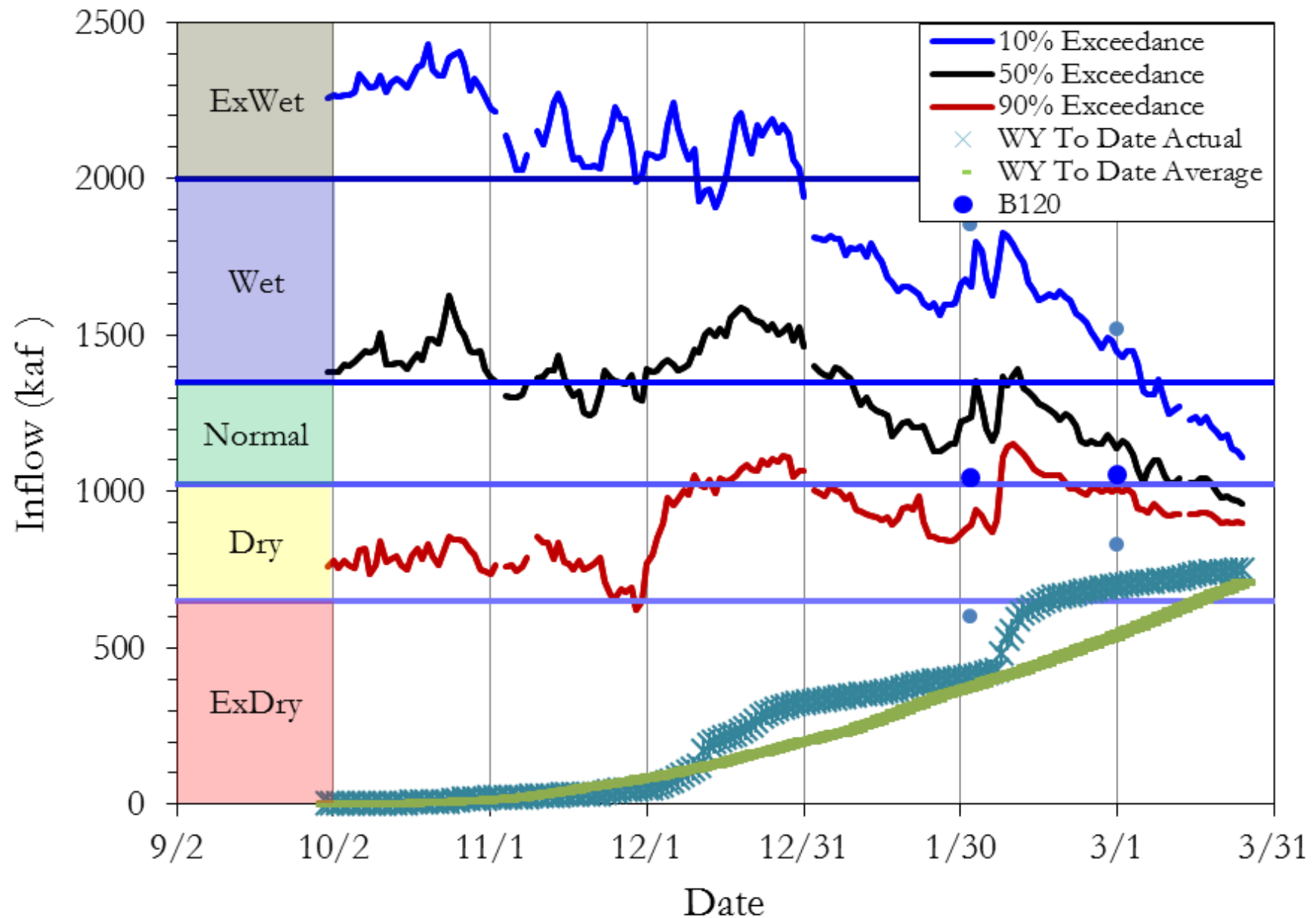
Report generated: 03/24/2015 09:55

Snow Water Equivalents								
Station	ID	Coop. Agency	Elev (FT)	Apr 1 Avg (IN)	Today (IN)	Percent Apr 1	24 Hrs Ago (IN)	1 Week Ago (IN)
TRINITY RIVER								
Peterson Flat	PET	DWR	7,150	29.2	0.0r	0%	0.0r	1.8r
Red Rock Mountain	RRM	DWR	6,700	39.6	0.0r	0%	0.0	4.2
Bonanza King	BNK	DWR	6,450	40.5	0.4r	0%	0.0r	0.0r
Shimmy Lake	SHM	DWR	6,400	40.3	3.1	7%	1.5e	6.5
Middle Boulder 3	MB3	DWR	6,200	28.3	0.6r	2%	0.2r	0.0r
Highland Lakes	HIG	DWR	6,030	29.9	0.0r	0%	0.0r	0.0r
Scott Mountain	SCT	DWR	5,900	16.0	0.0r	0%	0.0r	0.0r
Mumbo Basin	MUM	DWR	5,650	22.4	0.0r	0%	0.0r	0.0r
Big Flat	BFL	DWR	5,100	15.8	0.0r	0%	0.0r	0.0r
Crowder Flat	CWF	NRCS	5,100	----	0.0r	----	0.0r	0.0r

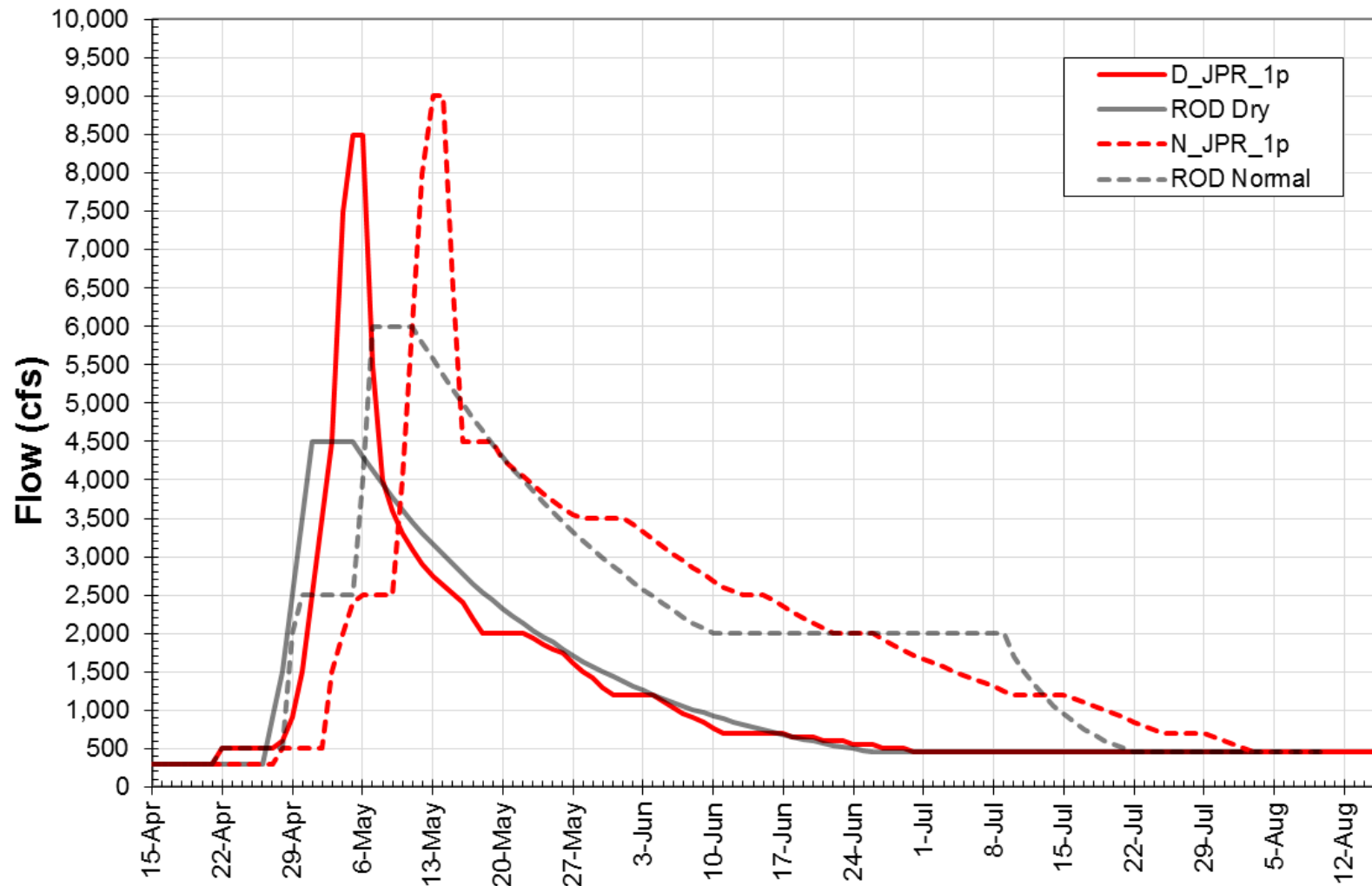
WY Type from April 1 B120 50%

Water Year Type	Annual Probability of Occurrence (Percent)	Forecast Annual River Runoff (acre feet)	Restoration Water Allocation (Acre-Feet)
Extremely Wet	12%	$\geq 2,000,000$	815,000
Wet	28%	1,350,000 – 1,999,999	701,000
Normal	20%	1,025,000 – 1,349,999	647,000
Dry	28%	650,000 – 1,024,999	453,000
Critically Dry	12%	$< 650,000$	369,000

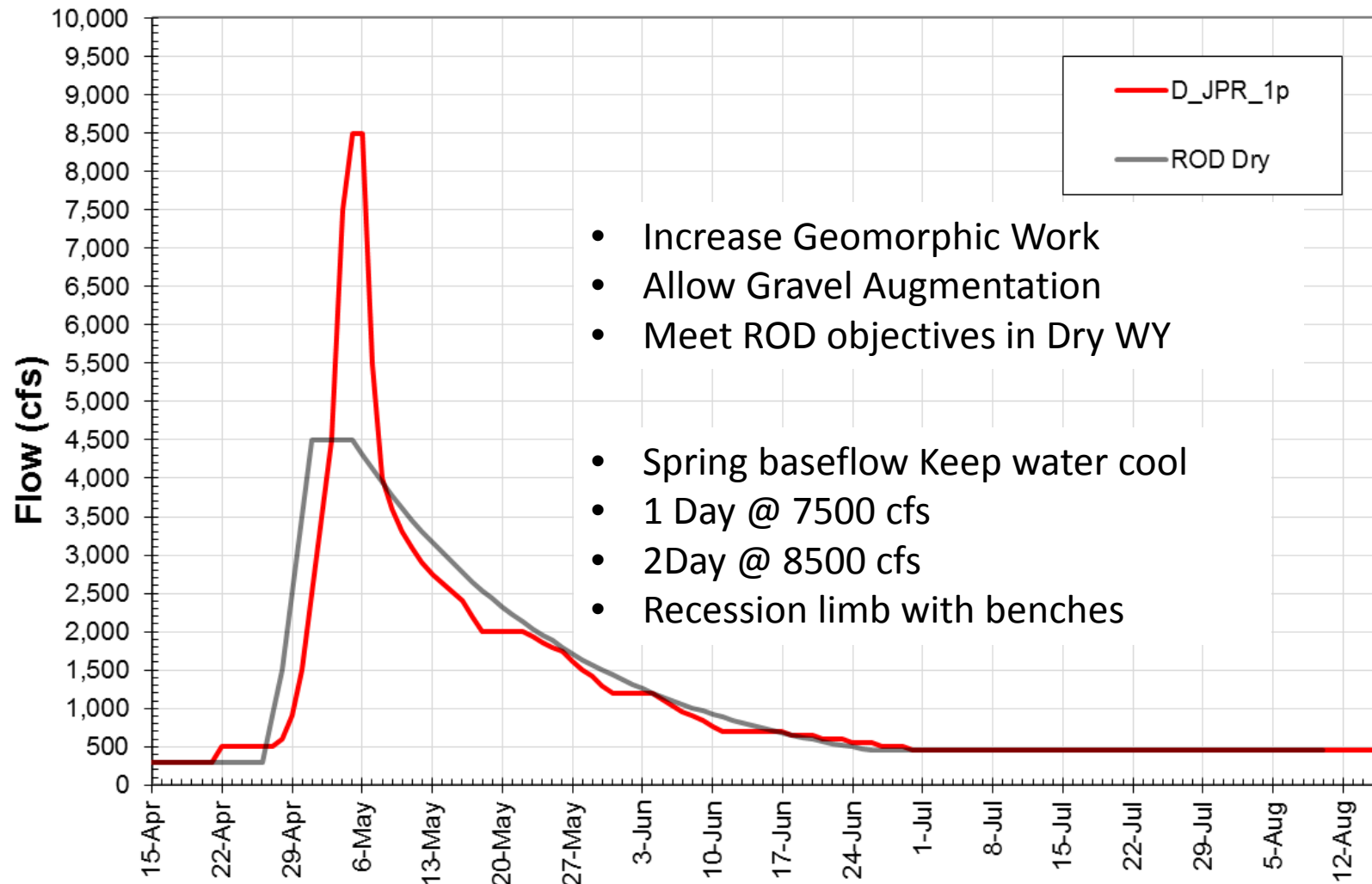
CNRFC Inflow Forecast



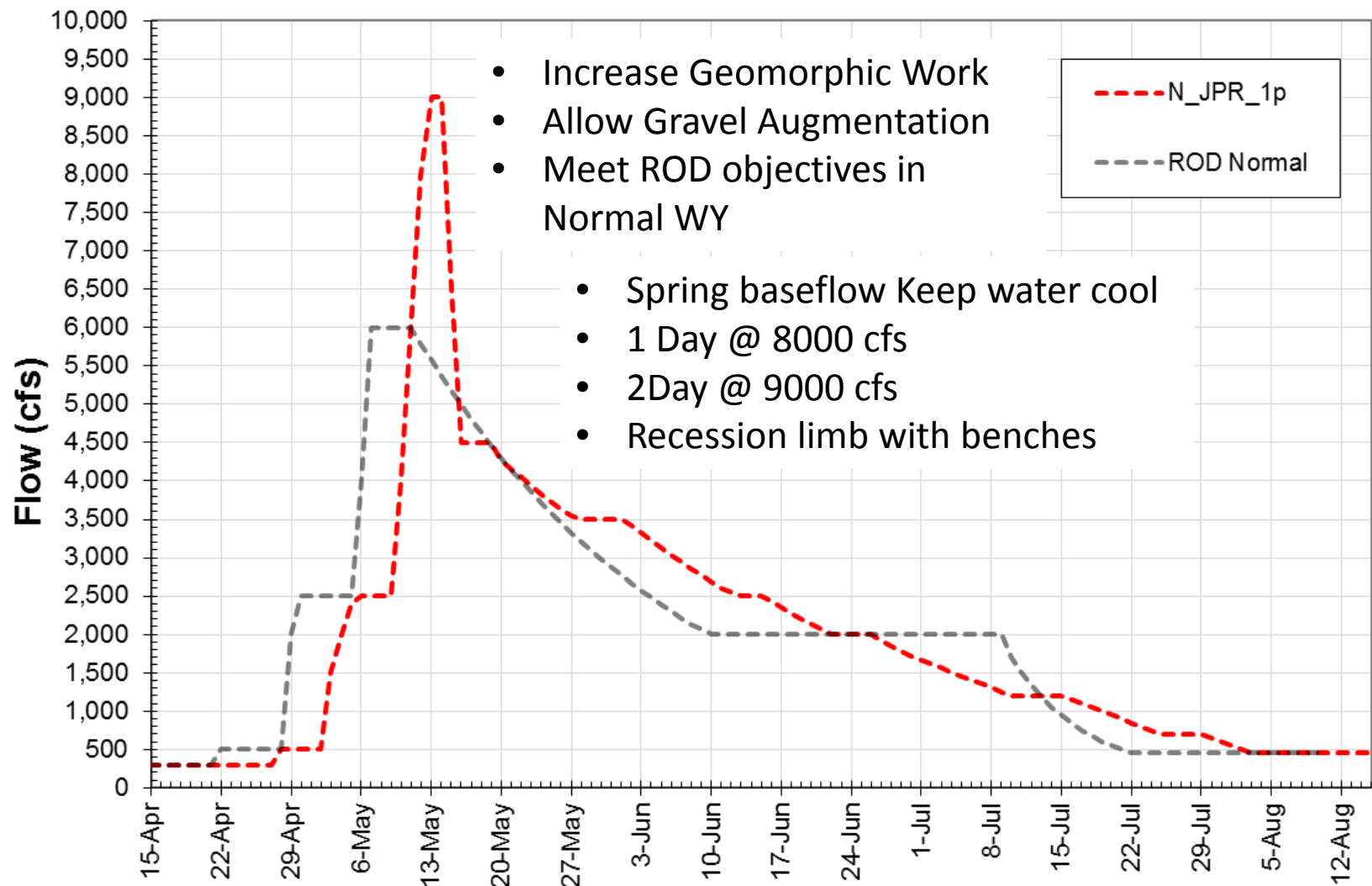
2015 Hydrographs



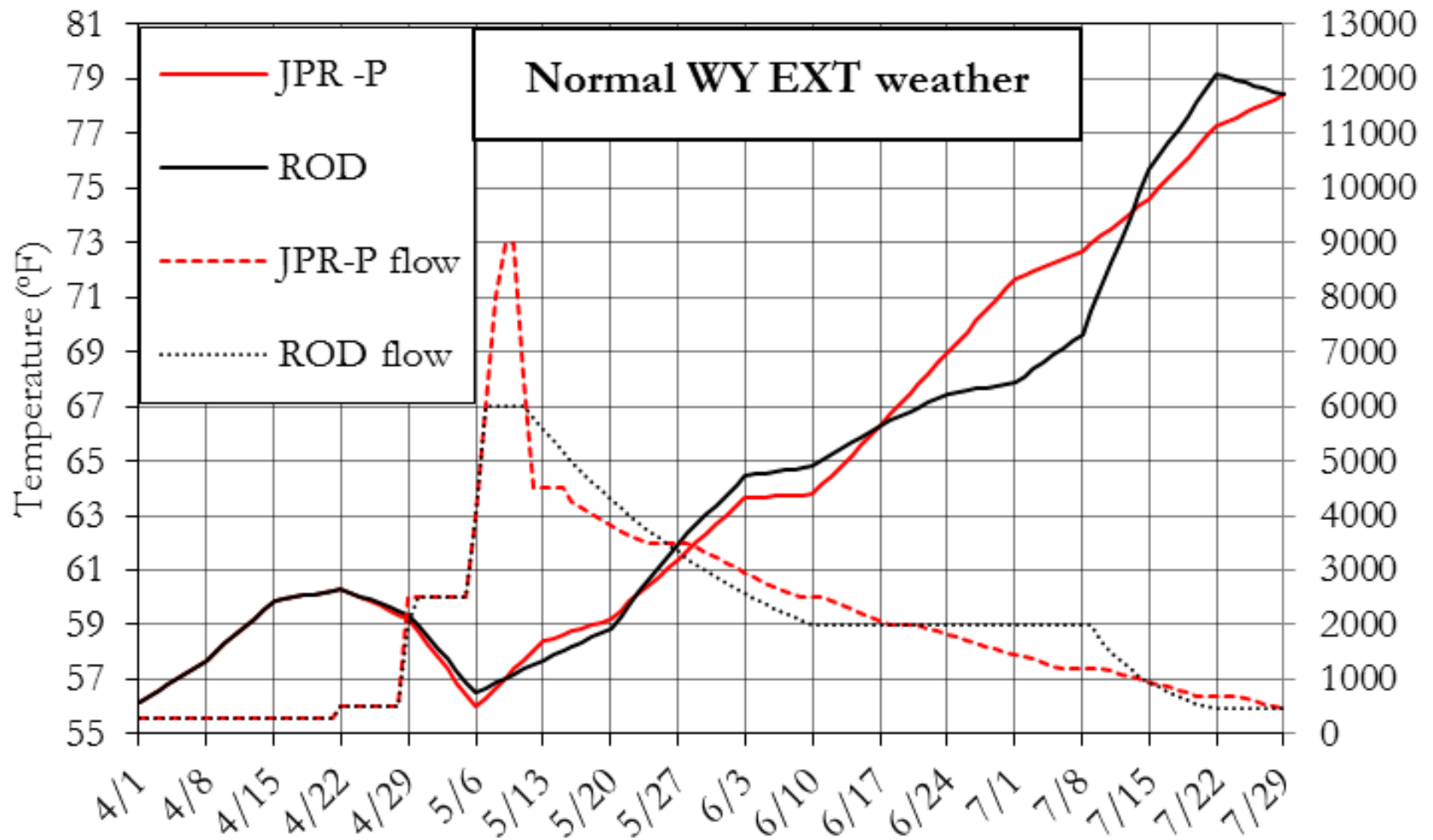
Dry WY Joint Physical Riparian Alternative 1 Peak



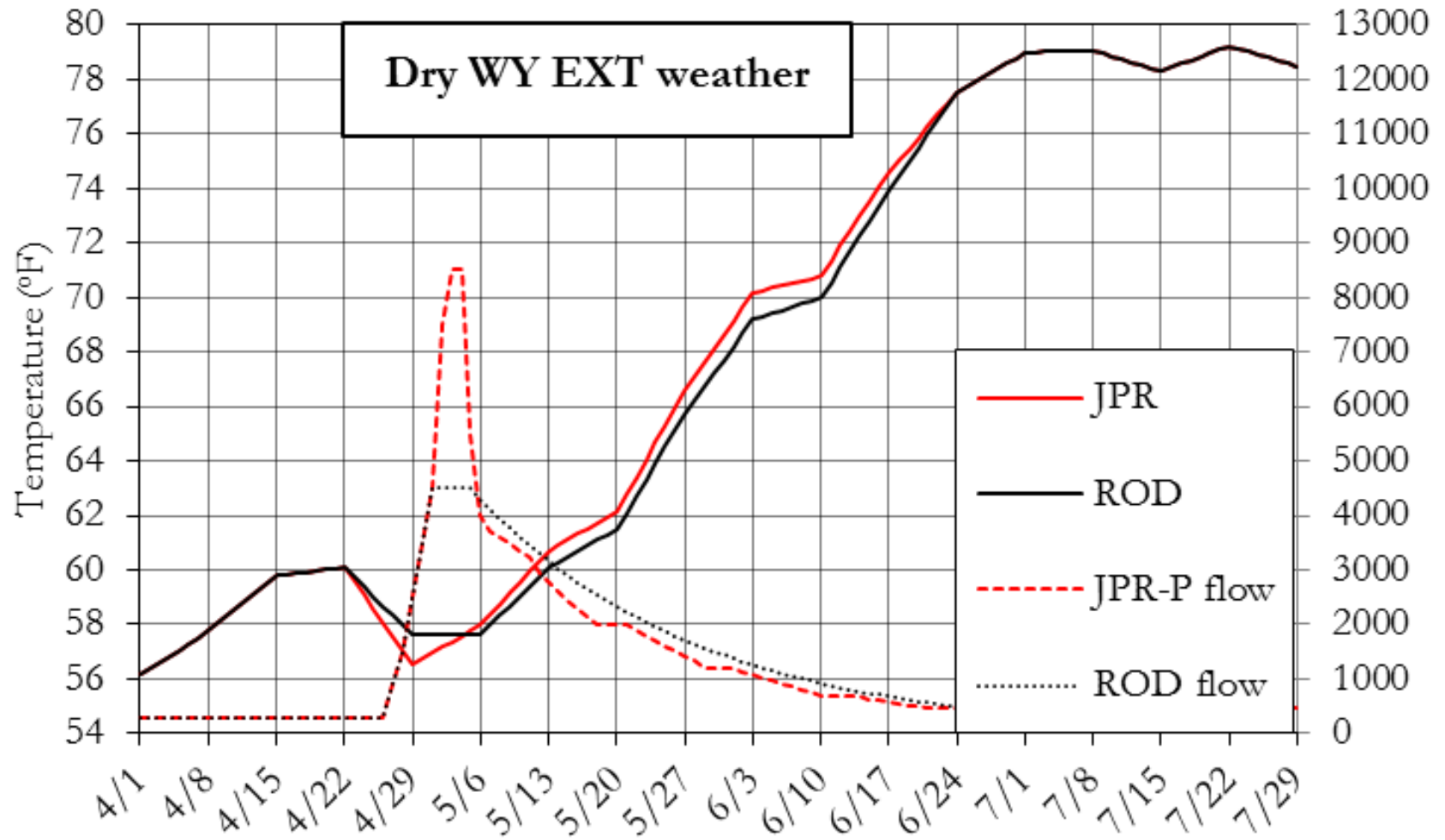
Normal WY Joint Physical Riparian Alternative 1 Peak



Temperature @ Weitchpec (Dry)

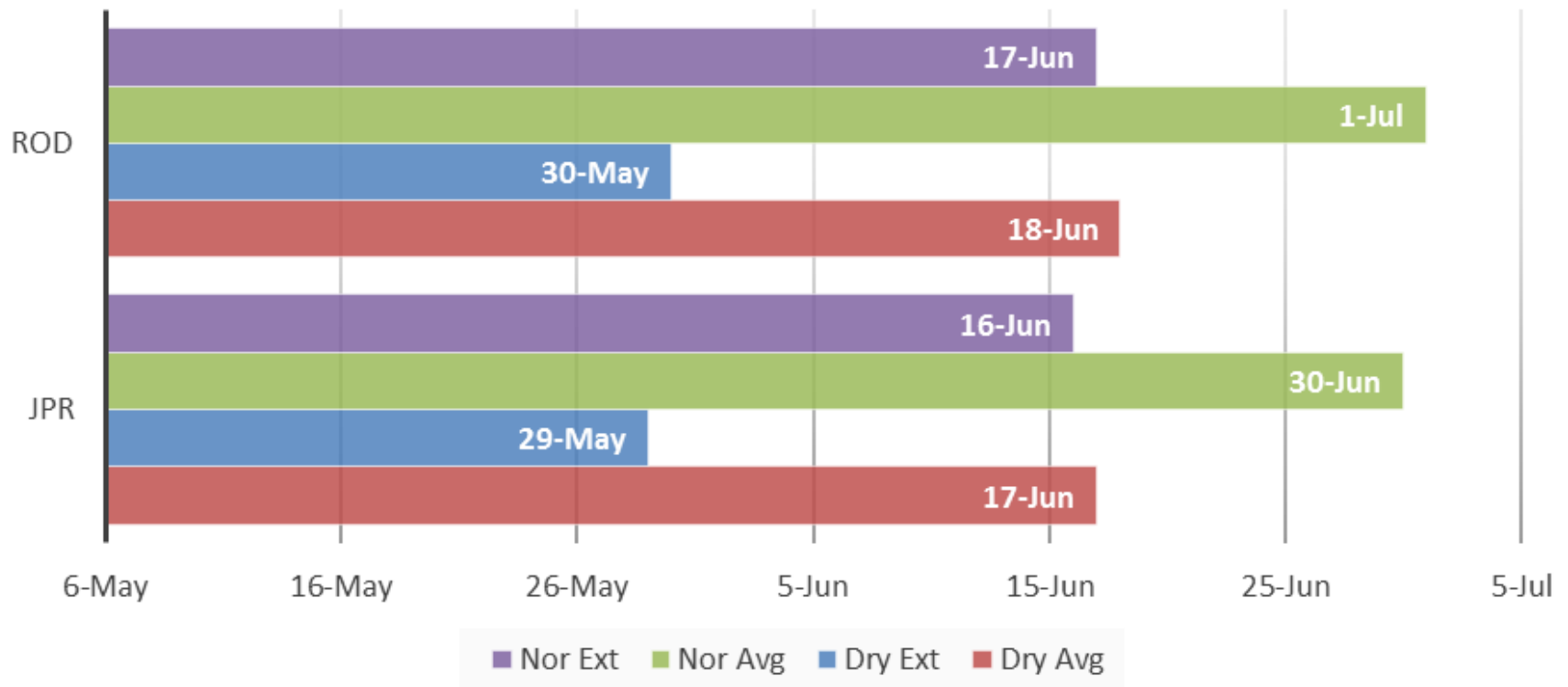


Temperature @ Weitchpec (Dry)



Outmigration Timing Effects

Estimated RT80 Date by 2015 Flow Alternative



Flow & Temperature Work Group

Hydrograph Recommendation

- If it is a Dry Year the group recommends the D-JPR-1P
- If it is a Normal Year the group recommends the N-JPR-1P

The End

Questions?



Trinity River WY 2015 Gravel Recommendations

TMC

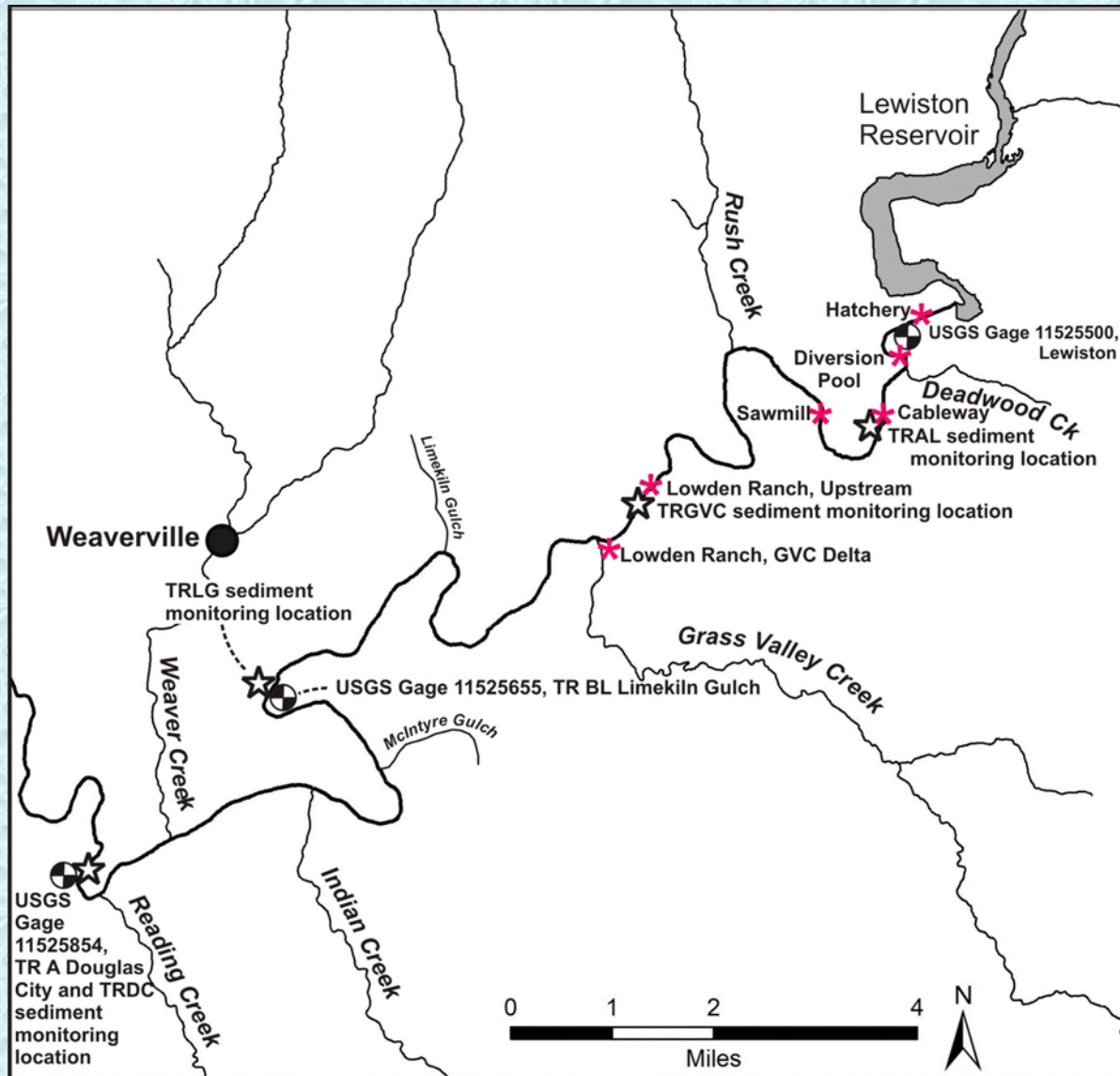
March 16 2015



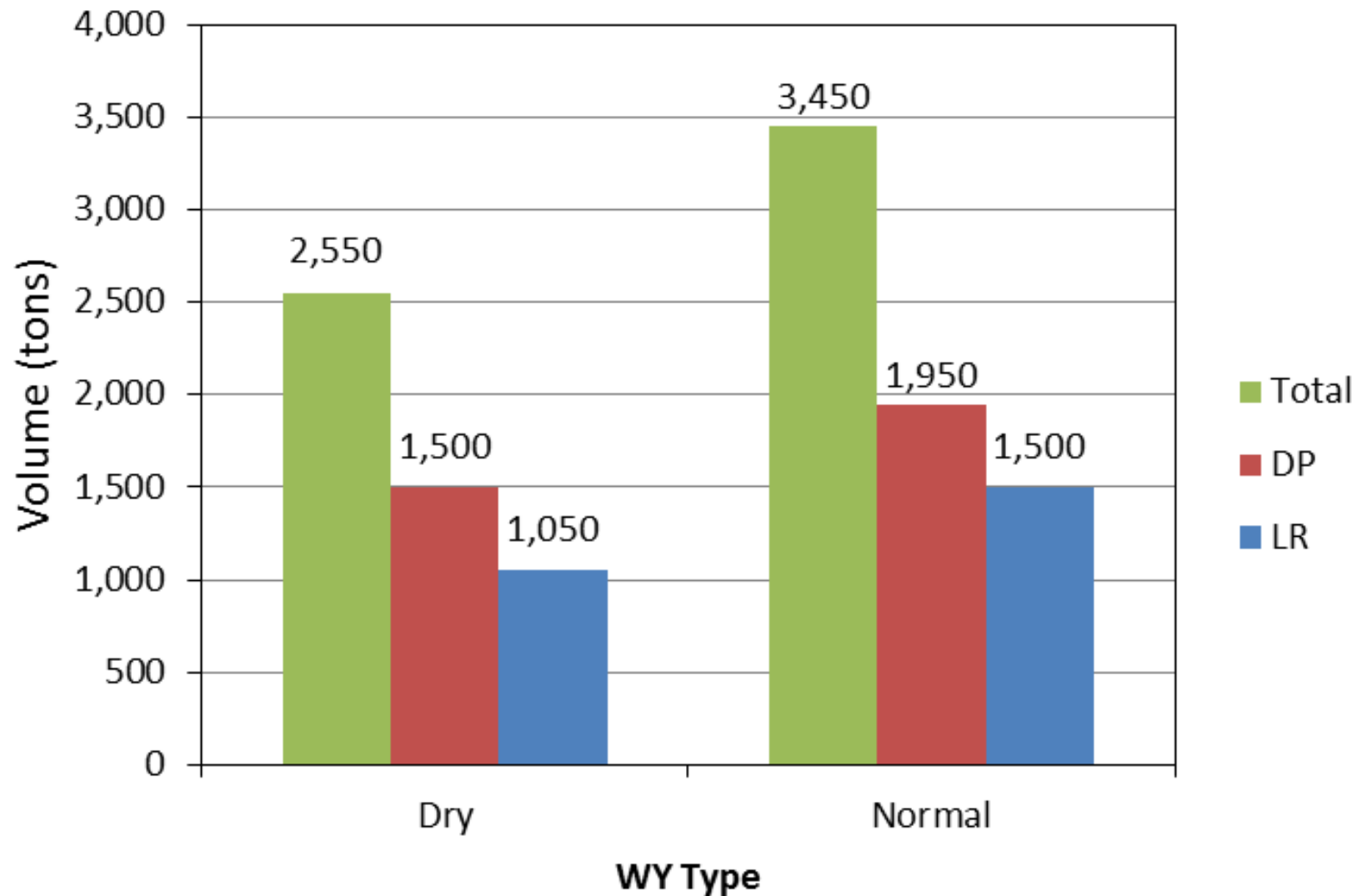
Gravel Augmentation



Gravel Augmentation (Sites)



Gravel Recommendations



The End

Questions?

