Water Supply Outlook Spring/Summer 2016

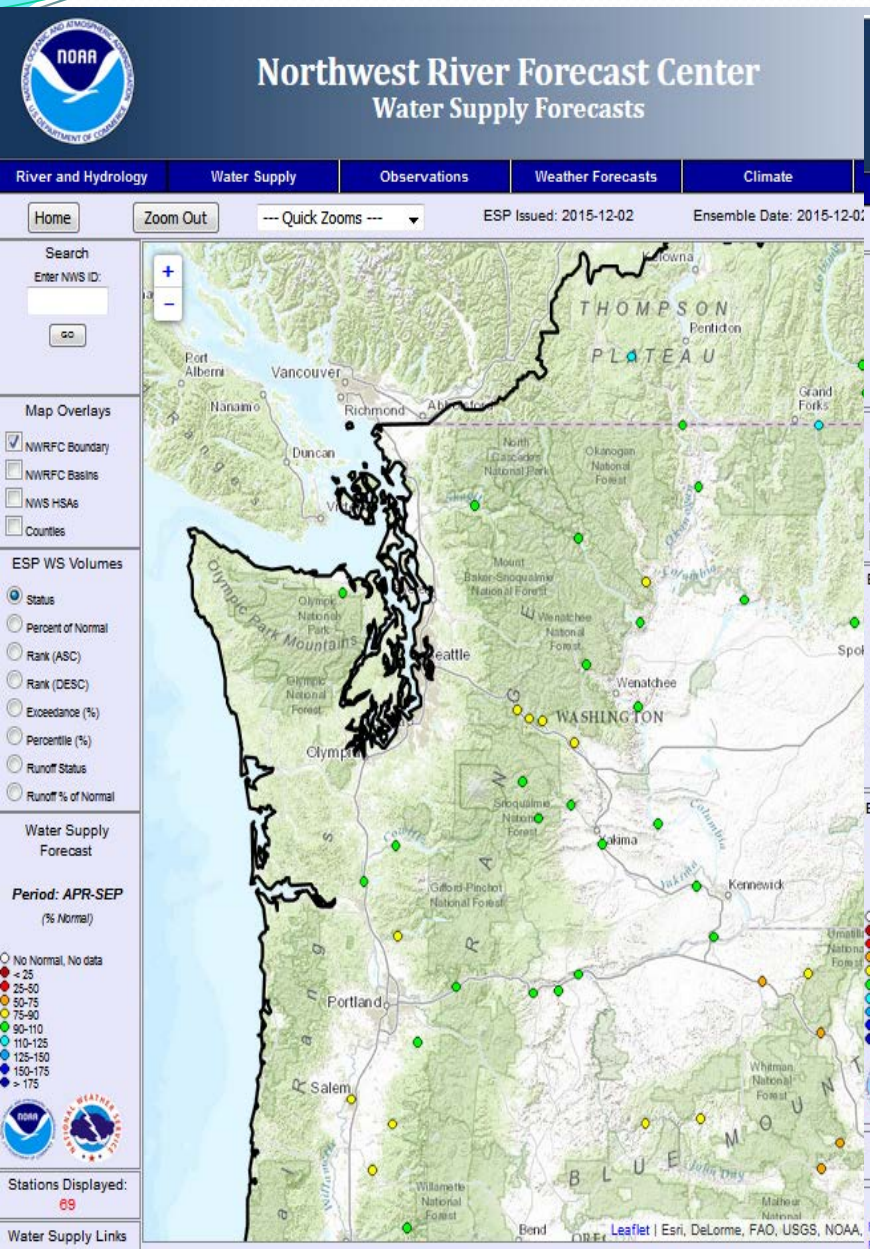
WSAC Dec 3, 2-15

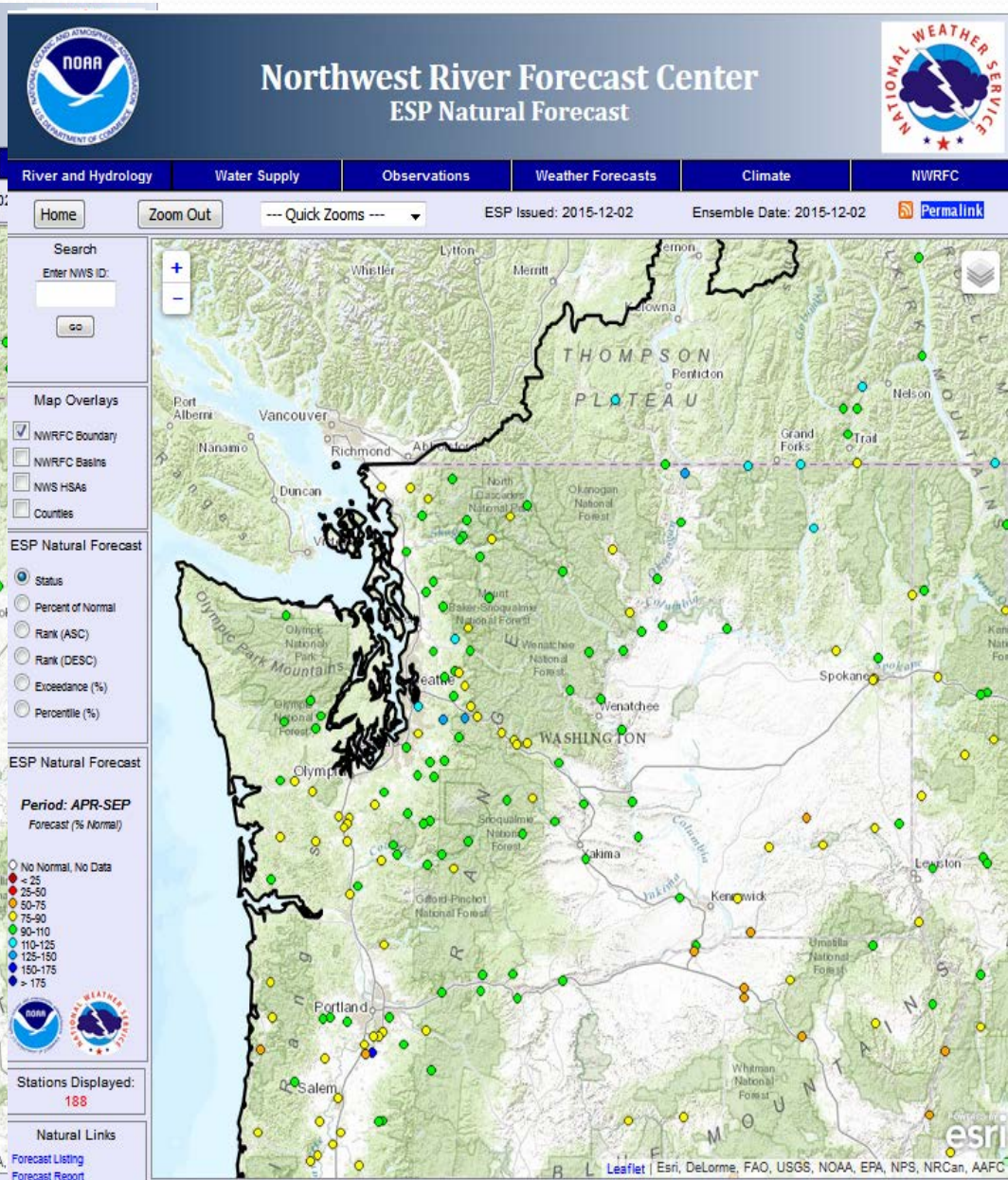
Brent Bower NWS

What We Know

What we DON'T know

Water Supply Forecast Points





Columbia – The Dalles

COLUMBIA - THE DALLES DAM (TDAO3)
Forecasts for Water Year 2016

Official Forecast

10 days QPF: ***Ensemble:*** 2015-12-02 ***Issued:*** 2015-12-02

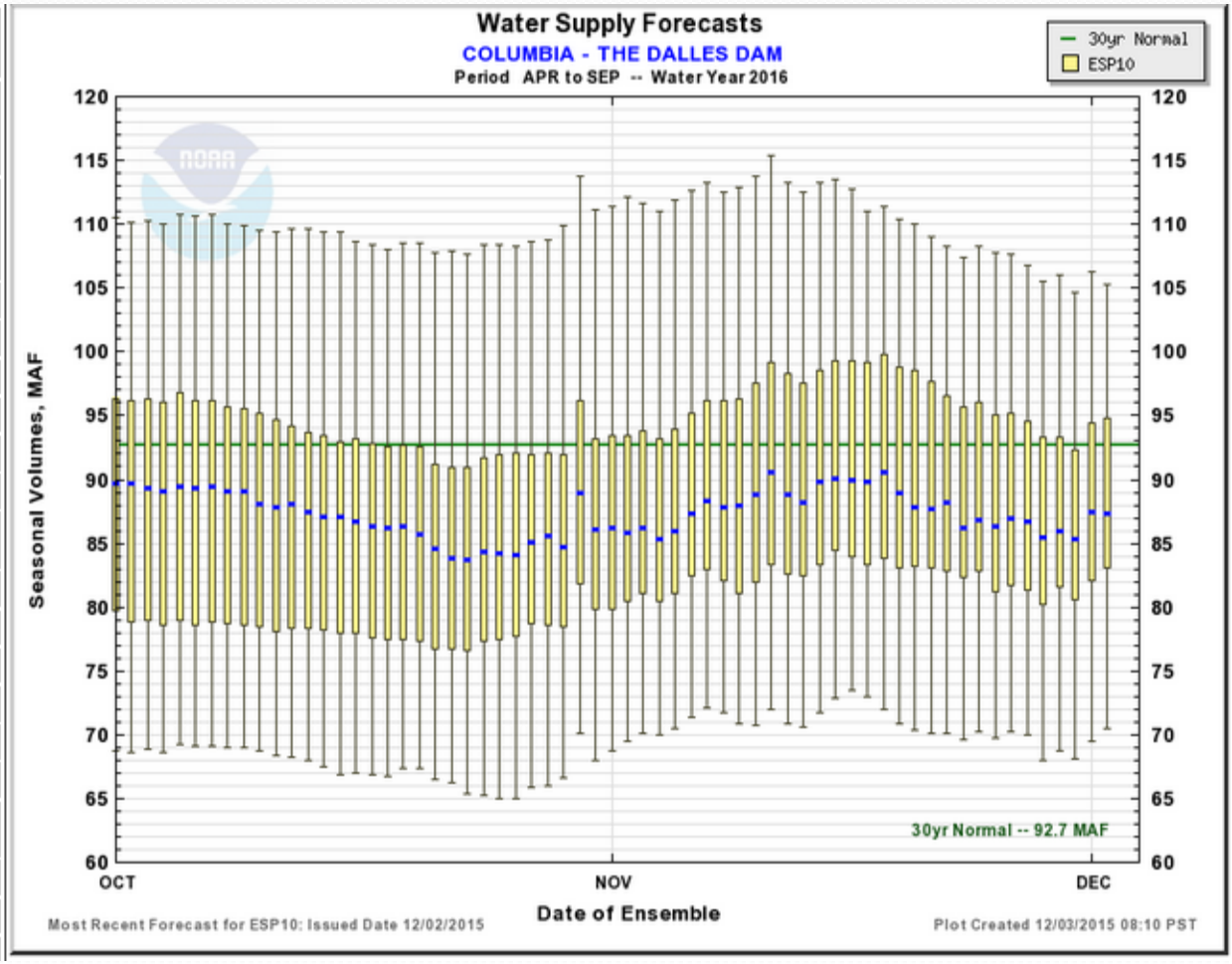
Forecast Period	Forecasts Are in KAF				30 Year Average (1981-2010)
	90 %	50 %	% Average	10 %	
APR-SEP	70537	87299	94	105245	92704
APR-JUL	60630	74290	93	90451	79855
APR-AUG	66537	82158	94	99372	87532
JAN-SEP	86084	105331	92	126563	114216
JAN-JUL	76271	91837	91	112449	101368
OCT-SEP	99738	120401	92	141993	130518

5 days QPF: ***Ensemble:*** 2015-12-02 ***Issued:*** 2015-12-02

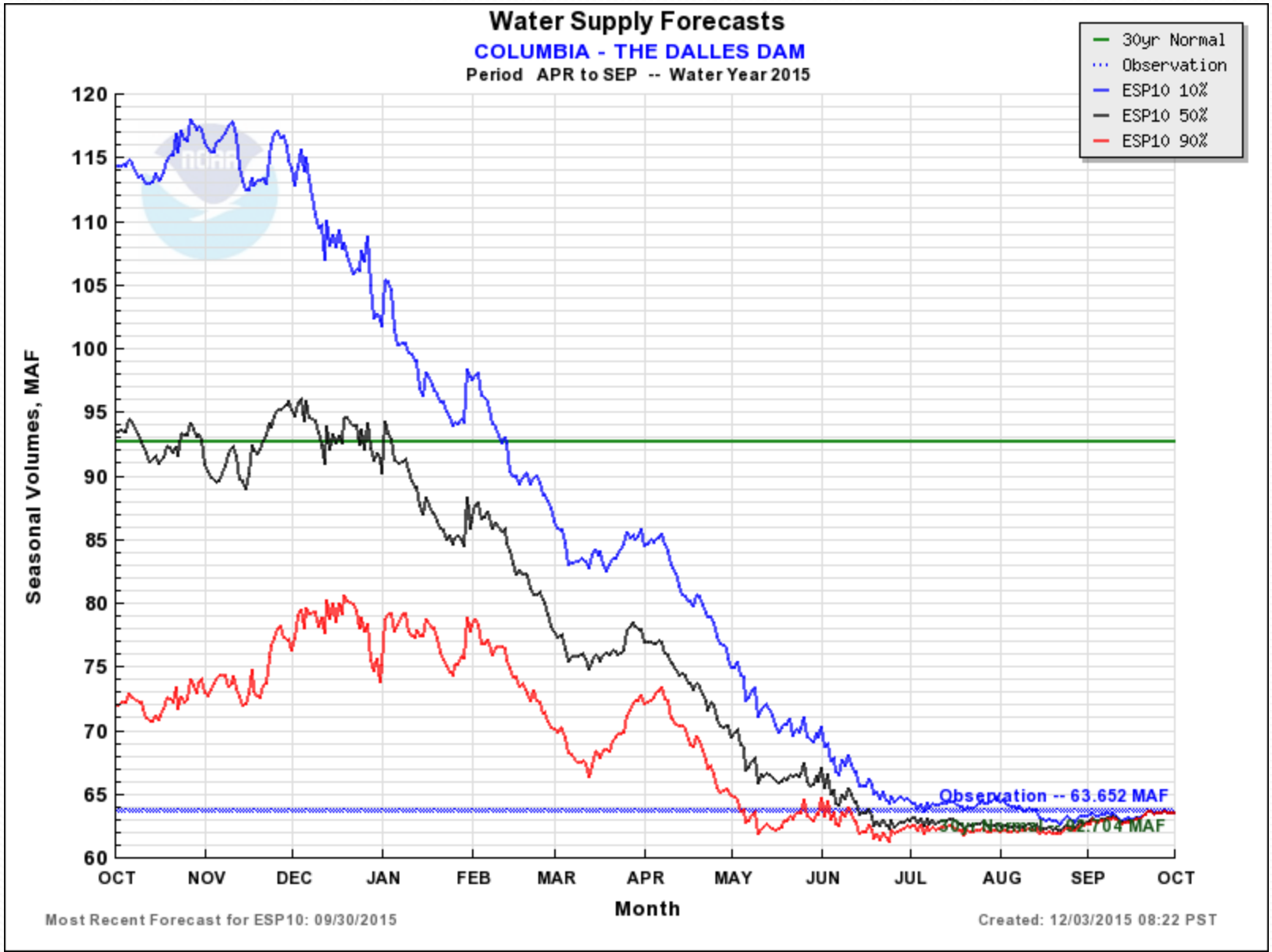
APR-SEP	71182	87935	95	108215	92704
APR-JUL	59929	73808	92	91040	79855
APR-AUG	65962	82315	94	101535	87532
JAN-SEP	85005	104866	92	128471	114216
JAN-JUL	74894	90778	90	112011	101368
OCT-SEP	98254	118236	91	143448	130518

0 days QPF: ***Ensemble:*** 2015-12-02 ***Issued:*** 2015-12-02

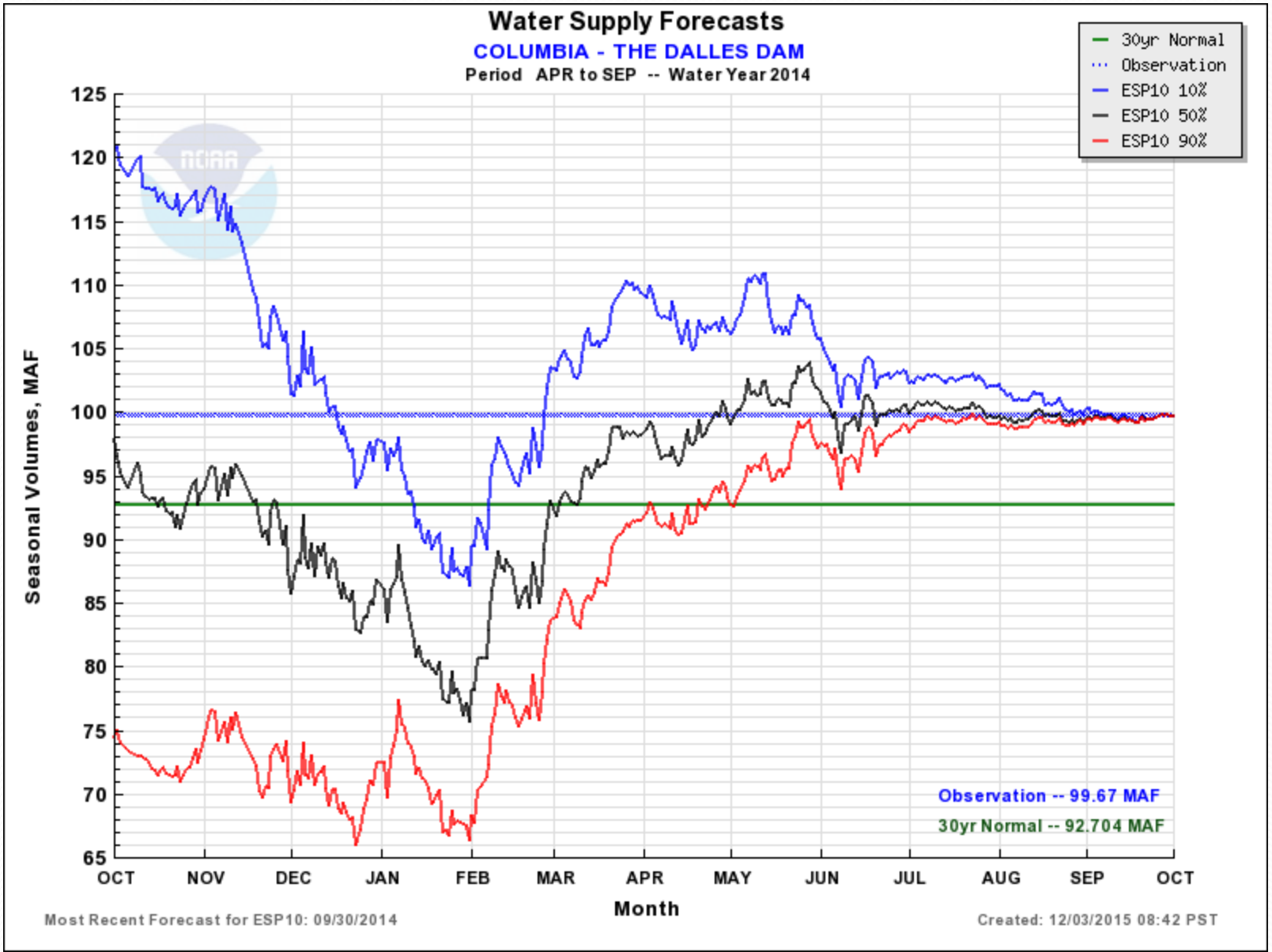
APR-SEP	69769	87976	95	107860	92704
APR-JUL	58806	75656	95	91746	79855
APR-AUG	64800	83326	95	101941	87532



Columbia – The Dalles



Columbia – The Dalles



Walla Walla – near Touchet

WALLA WALLA - NEAR TOUCHET (TCHW1)
Forecasts for Water Year 2016

ESP Natural Forecast

10 days QPF: ***Ensemble:*** 2015-12-02 ***Issued:*** 2015-12-02

Forecast Period	Forecasts Are in KAF				30 Year Average (1981-2010)
	90 %	50 %	% Average	10 %	
APR-SEP	60	111	72	206	154
APR-JUL	55	101	71	189	141
JAN-SEP	181	273	76	472	359
JAN-JUL	176	260	75	453	345
OCT-SEP	217	322	76	529	423

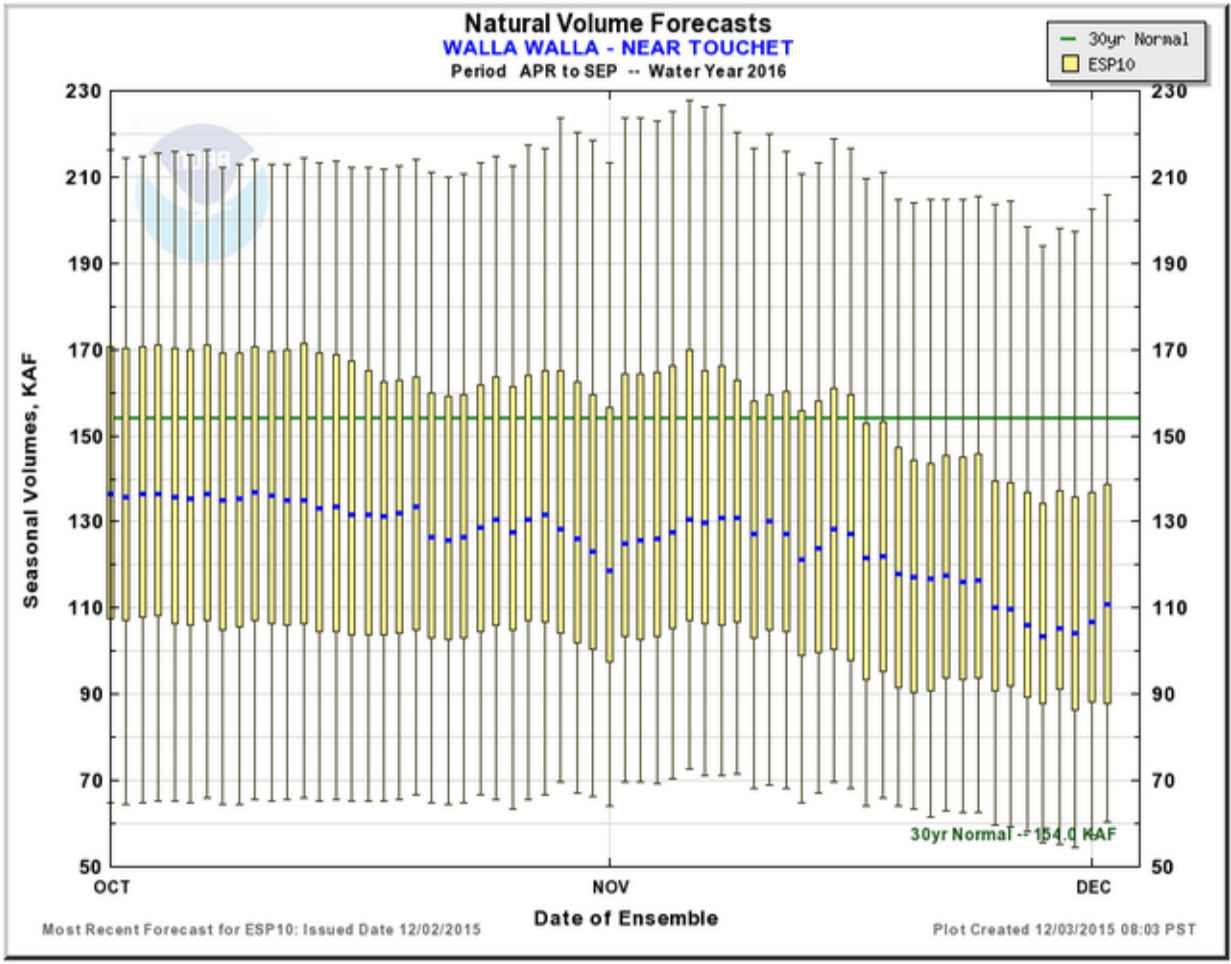
5 days QPF: ***Ensemble:*** 2015-12-02 ***Issued:*** 2015-12-02

APR-SEP	60	110	71	202	154
APR-JUL	55	100	71	186	141
JAN-SEP	169	265	74	448	359
JAN-JUL	164	249	72	430	345
OCT-SEP	193	290	69	493	423

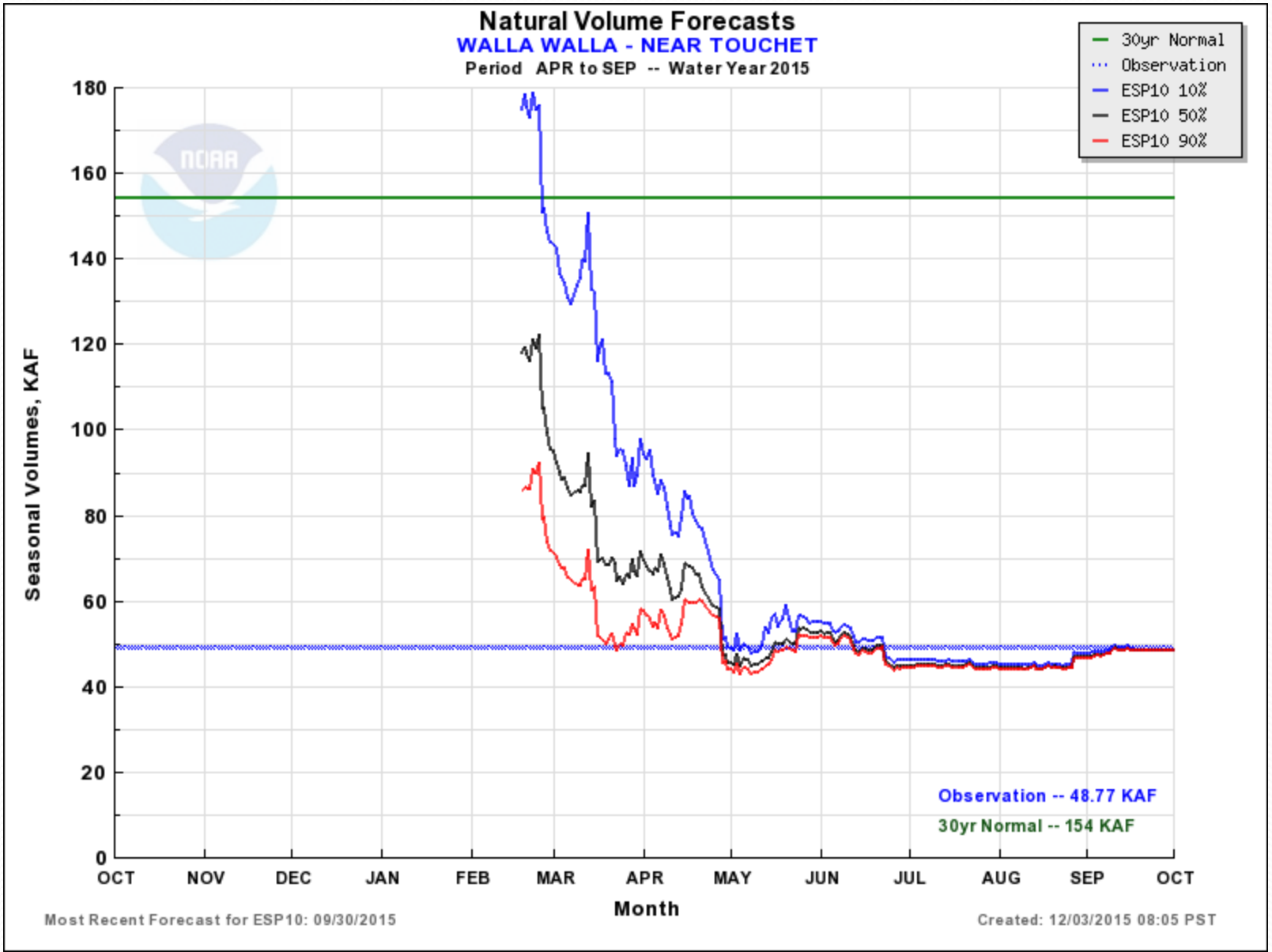
0 days QPF: ***Ensemble:*** 2015-12-02 ***Issued:*** 2015-12-02

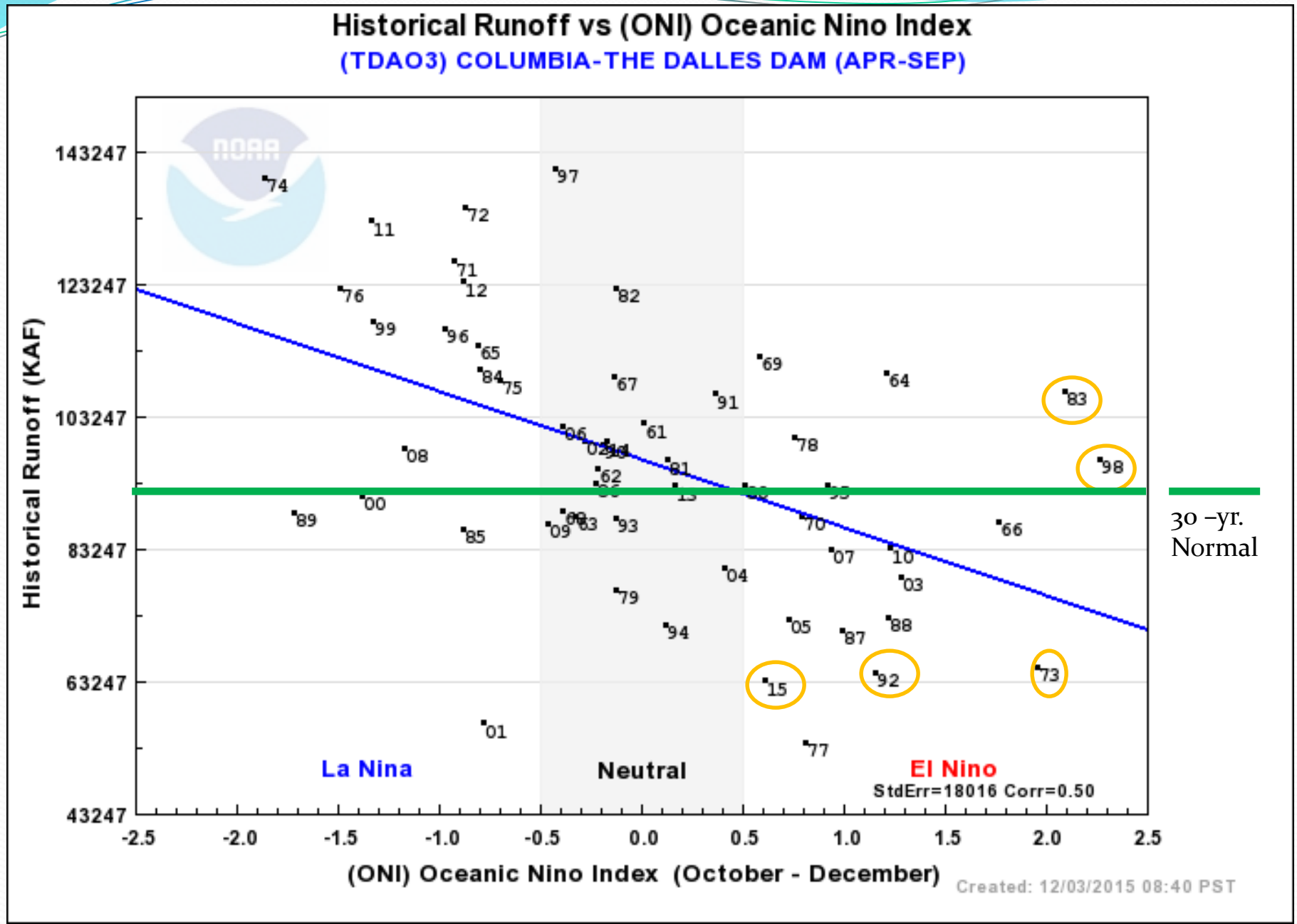
APR-SEP	60	115	74	203	154
APR-JUL	56	105	74	186	141
JAN-SEP	160	279	78	459	359
JAN-JUL	155	270	78	439	345
OCT-SEP	180	316	75	506	423

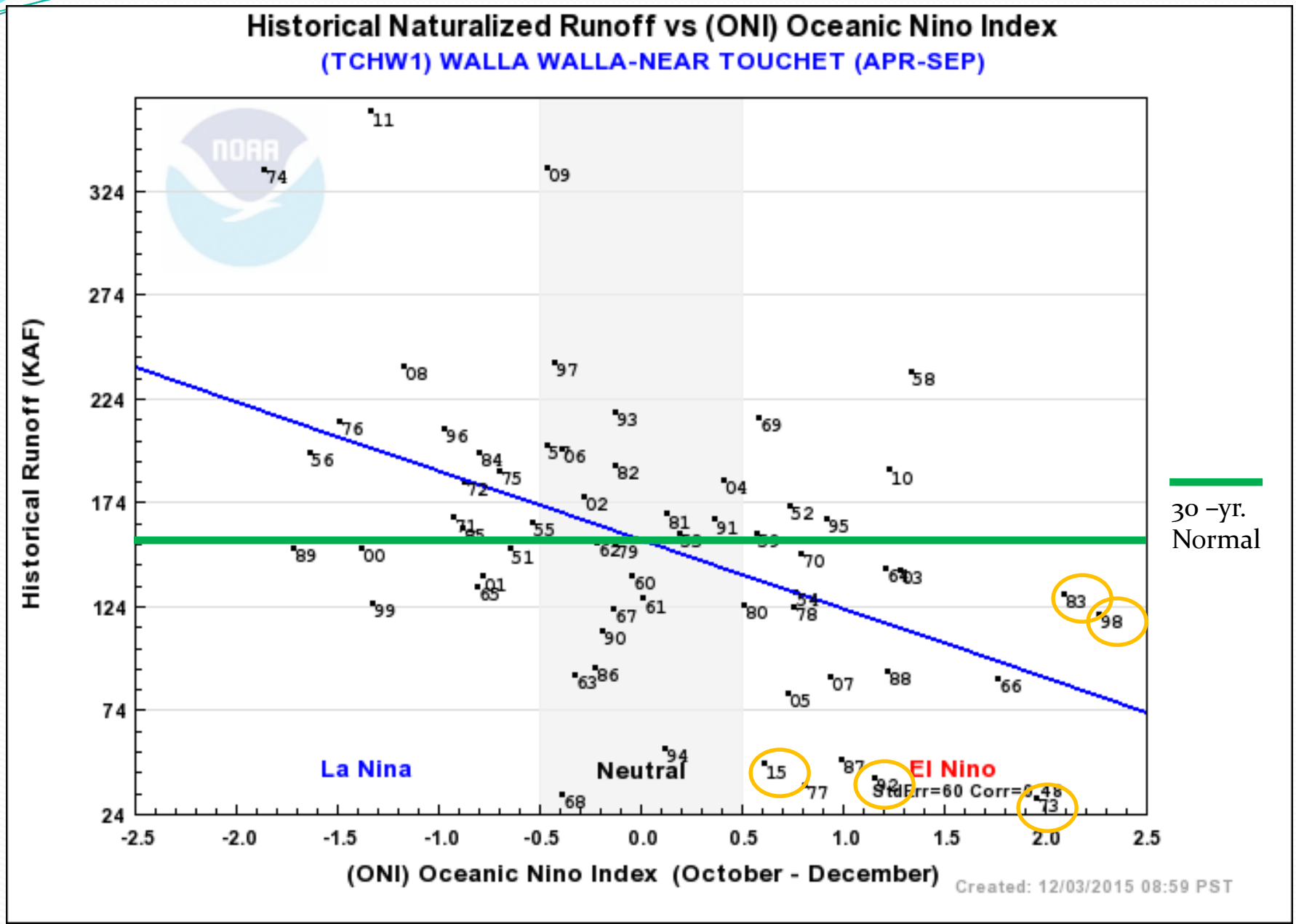
Move the mouse over the desired "Forecast Period" to display a graph.



Walla Walla – near Touchet




Historical Runoff vs (ONI) Oceanic Nino Index
(TDAO3) COLUMBIA-THE DALLES DAM (APR-SEP)
Historical Runoff (KAF)
143247
123247
103247
83247
63247
43247
-2.5
-2.0
-1.5
-1.0
-0.5
0.0
0.5
1.0
1.5
2.0
2.5
(ONI) Oceanic Nino Index (October - December)
La Nina
Neutral
El Nino
StdErr=18016 Corr=0.50
Created: 12/03/2015 08:40 PST
30 –yr. Normal


Historical Naturalized Runoff vs (ONI) Oceanic Nino Index
(TCHW1) WALLA WALLA-NEAR TOUCHET (APR-SEP)
Historical Runoff (KAF)
324
274
224
174
124
74
24
-2.5
-2.0
-1.5
-1.0
-0.5
0.0
0.5
1.0
1.5
2.0
2.5
(ONI) Oceanic Nino Index (October - December)
La Nina
Neutral
El Nino
30 –yr. Normal
Created: 12/03/2015 08:59 PST