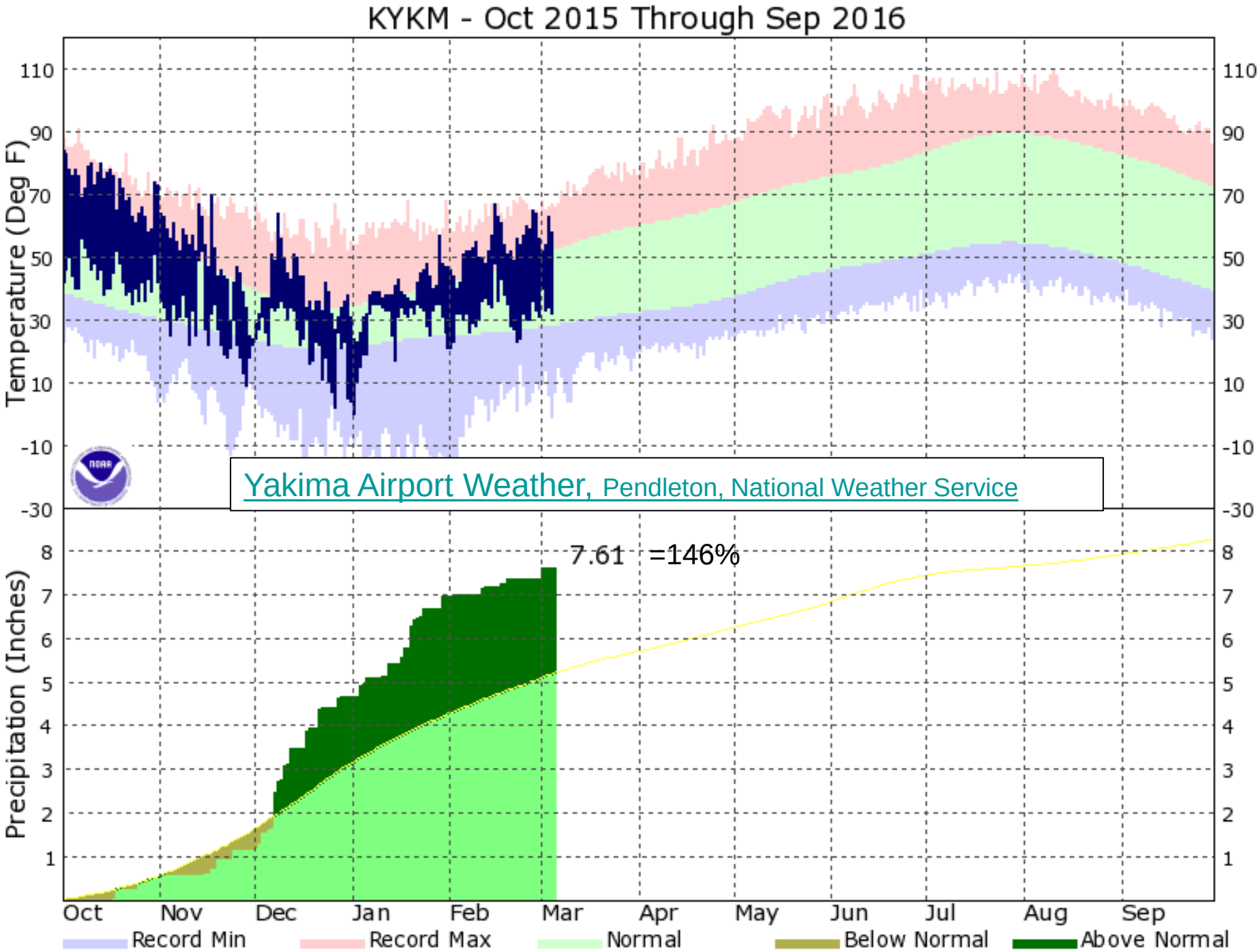
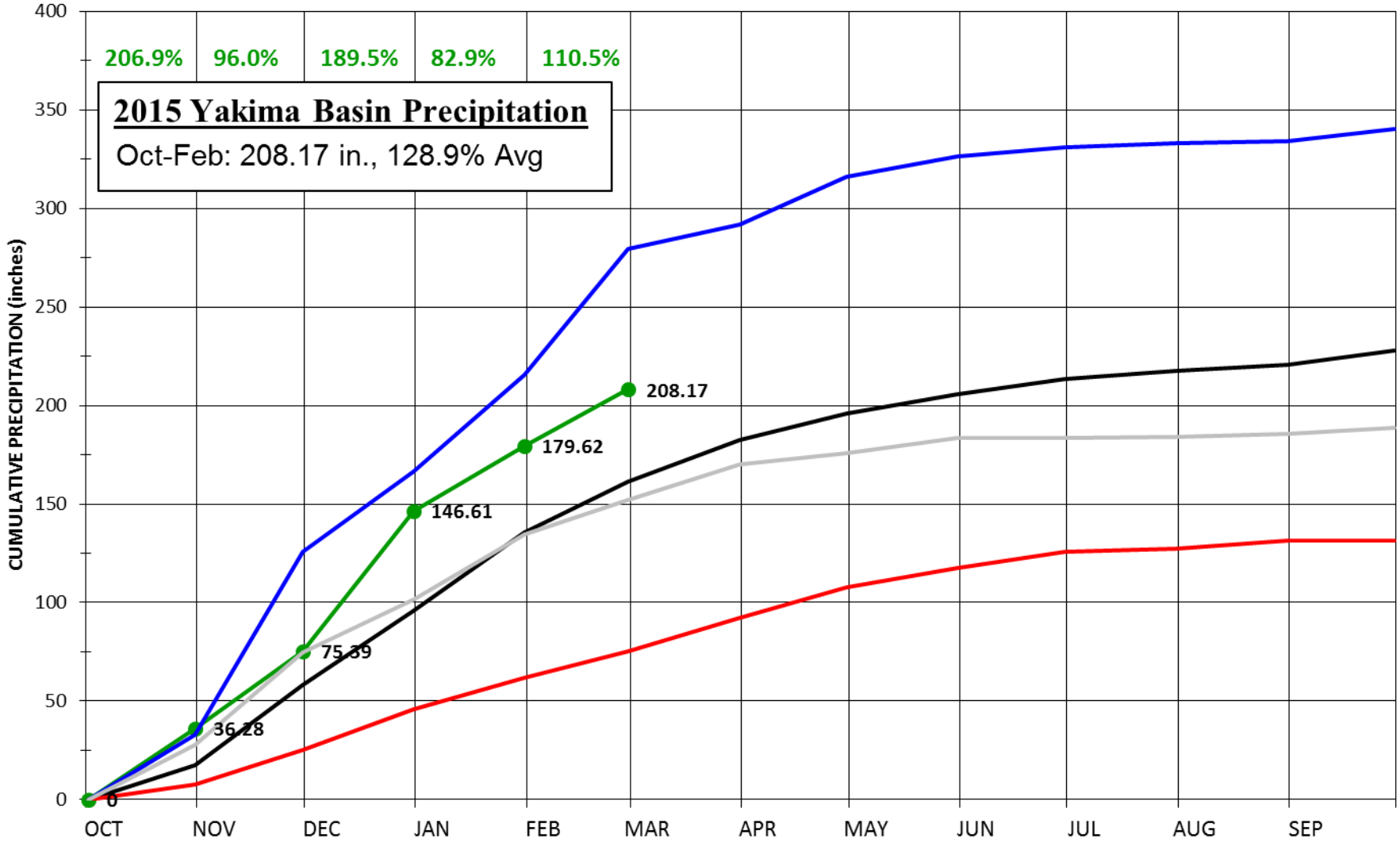
RECLAMATION

Managing Water in the West

Yakima Basin WY 2016 TWSA presentation for IP March 9, 2016

U.S. Department of the Interior
Bureau of Reclamation


KYKM - Oct 2015 Through Sep 2016
Temperature (Deg F)
110
90
70
50
30
10
-10
-30
Yakima Airport Weather, Pendleton, National Weather Service
Precipitation (Inches)
8
7
6
5
4
3
2
1
7.61 =146%
Oct
Nov
Dec
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Record Min
Record Max
Normal
Below Normal
Above Normal



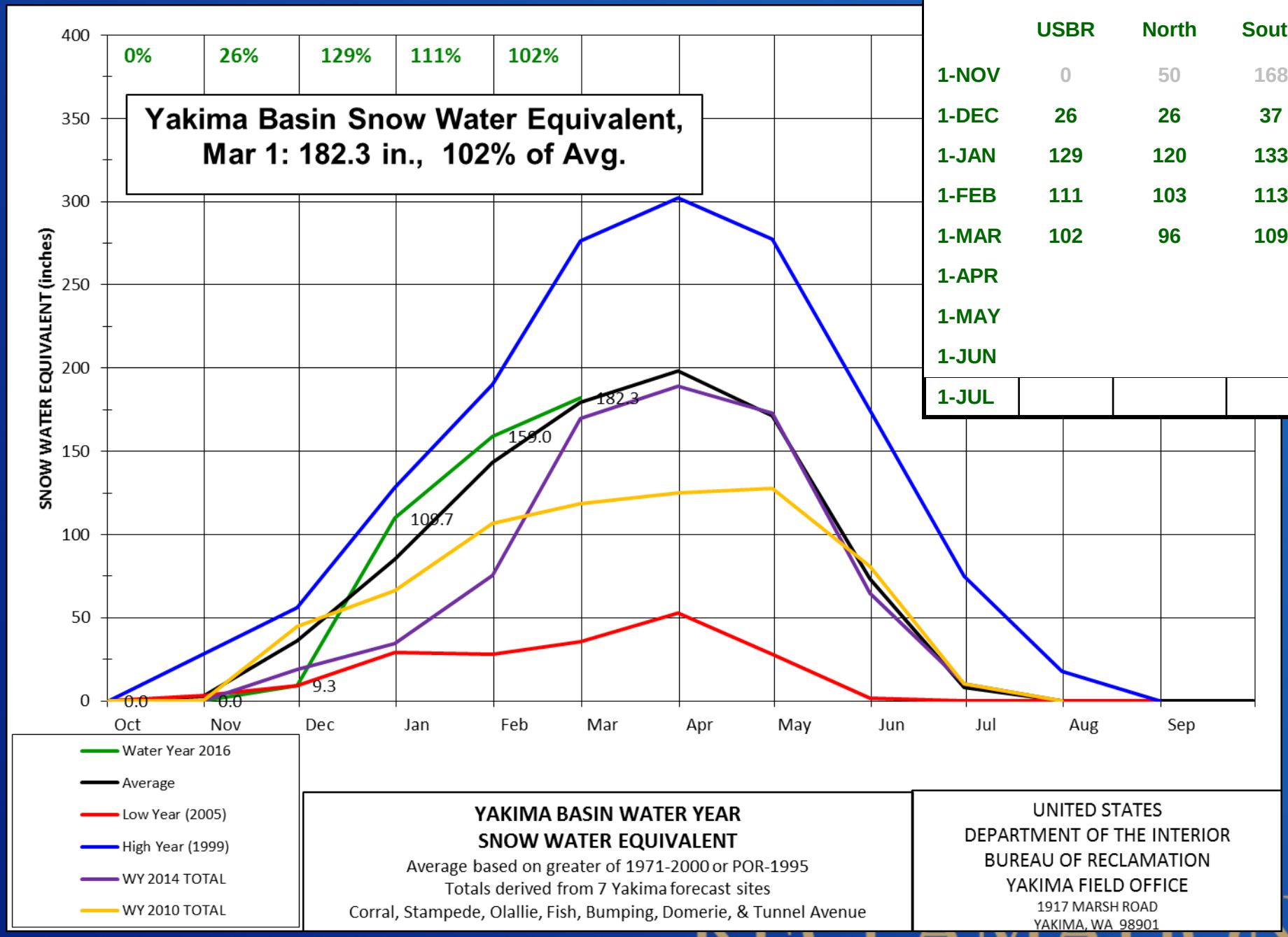
WY 2016 — Average

WY2001 (min) — WY1996 (max)

WY2015

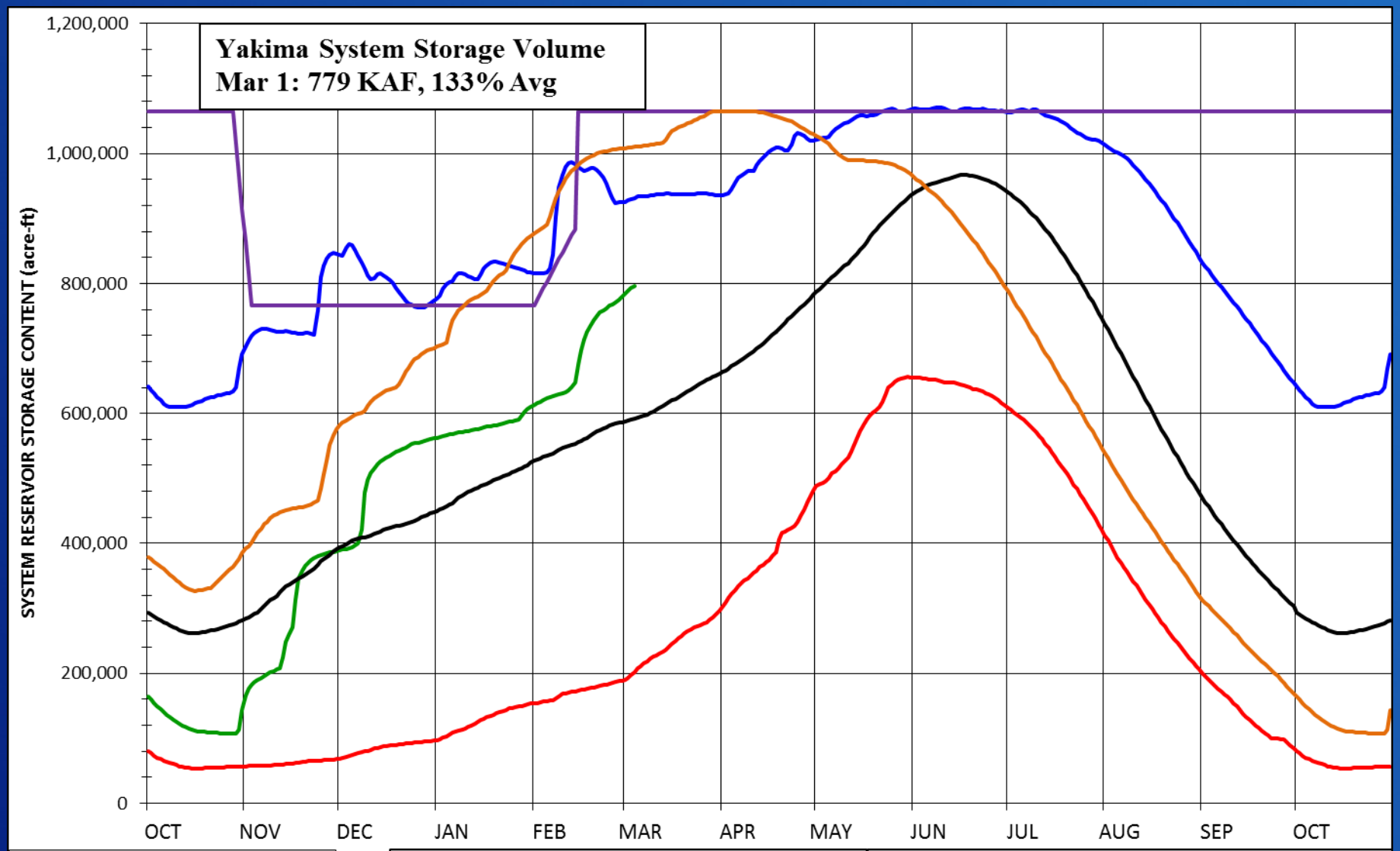
YAKIMA BASIN
Combined Cumulative Precipitation
5 Reservoir Sites
WATER YEARS 1981-2010

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF RECLAMATION
YAKIMA FIELD OFFICE
1917 MARSH ROAD
YAKIMA, WA 98901



NRCS SWE % AVG

	USBR	North	South
1-NOV	0	50	168
1-DEC	26	26	37
1-JAN	129	120	133
1-FEB	111	103	113
1-MAR	102	96	109
1-APR			
1-MAY			
1-JUN			
1-JUL			



RESERVOIR SYSTEM STORAGE
MEAN DAILY RESERVOIR VOLUME
SUMMARY HYDROGRAPH
WATER YEARS 1981-2010

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF RECLAMATION
YAKIMA FIELD OFFICE
1917 MARSH ROAD
YAKIMA, WA 98901

March's April 1, 2016 TWSA ESTIMATE

April 1 - September 30

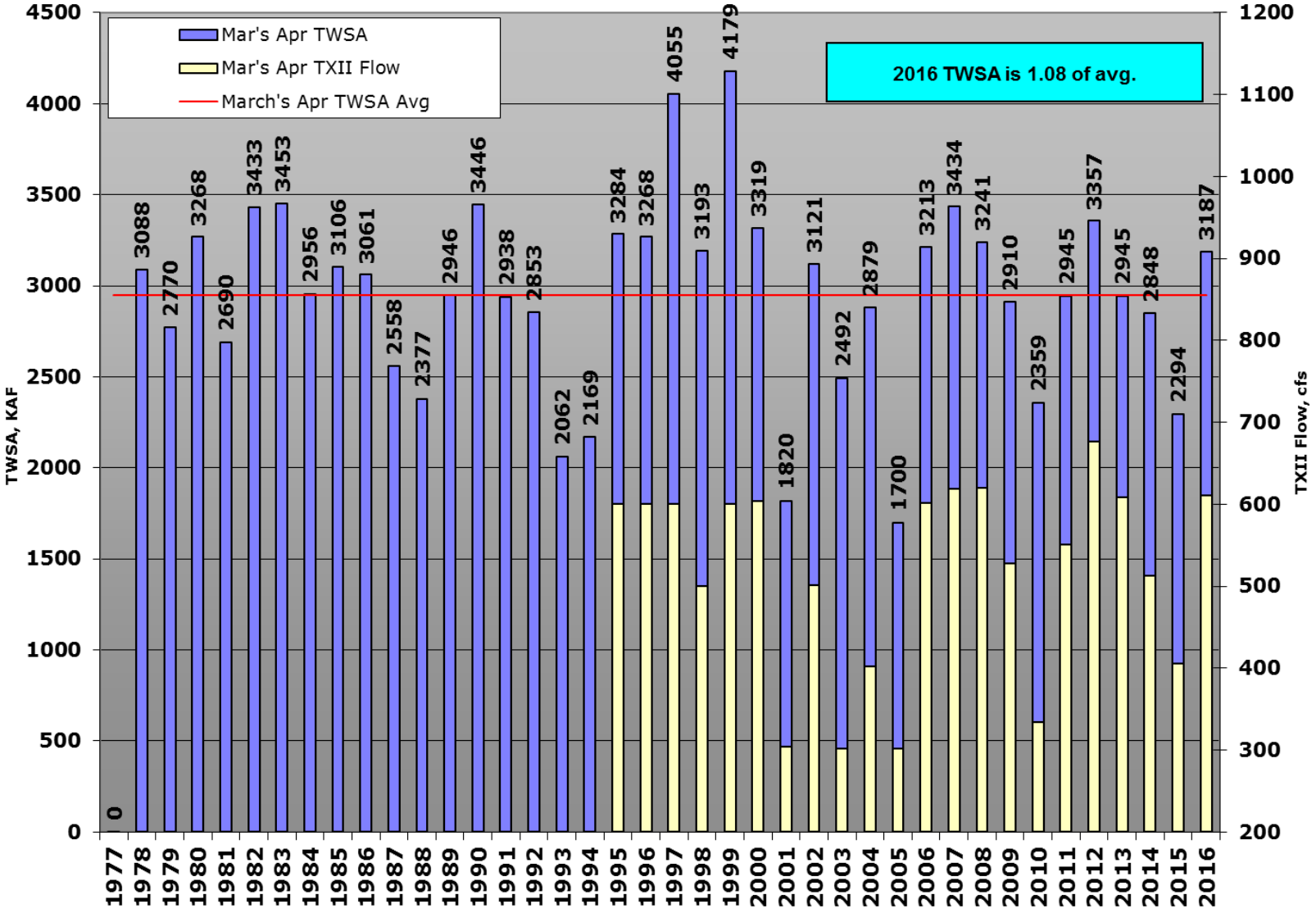
Parameter*	+/-/=	50%	100%	150%
Apr 1-Sep 30 Natural Flow at Parker est.	+	1473	1966	2442
Return Flow Estimate	+	320	350	350
April 1, Reservoir Content	+	840	871	881
TWSA	=	**2633**	**3187**	**3673**
SEP 30 EST RESERVOIR CONTENT	-	76	200	450
FLOW OVER SUNNYSIDE DAM	-	480	678	914
TWSA FOR IRRIGATION	=	2077	2309	2309
NONPRORATABLE ENTITLEMENT	-	1070	1070	1070
REMAINING TWSA	=	1007	1239	1239
PRORATABLE ENTITLEMENT		1239	1239	1239
% RATIO= REMAINING TWSA/PRORATABLE ENTITLEMENT		**81%**	**100%**	**100%**
TITLE 12 FLOW REQUIREMENTS, cfs	**April**	**300**	**500**	**600**
Flow available to Title 12, cfs *#*		106	111	111
Non-storeable Portion of added flow, cfs		25	25	25
Storable portion of added flow, cfs		81	86	86

*Values are in 1,000 ac-ft unless otherwise specified.

State & YRBWEP Trust, Acquisition, & Conservation additions to Title XII flow range from 106 to 111 cfs.

RECLAMATION

Yakima Basin Historical TWSA's



Yakima Basin Summary

- System Storage is 135 % of normal.
- Will make flood control releases.
- Reservoirs are expected to fill
- Snow water equivalent is near normal but loose.
- TWSA is above average.
- Title XII flow is 500 cfs.
- Prorationing is 100%.

RECLAMATION