RECLAMATION

Managing Water in the West

Idaho Water Supply Committee Meeting

January 13, 2011

By Art Hill

Hydraulic Engineer

U.S. Department of the Interior
Bureau of Reclamation

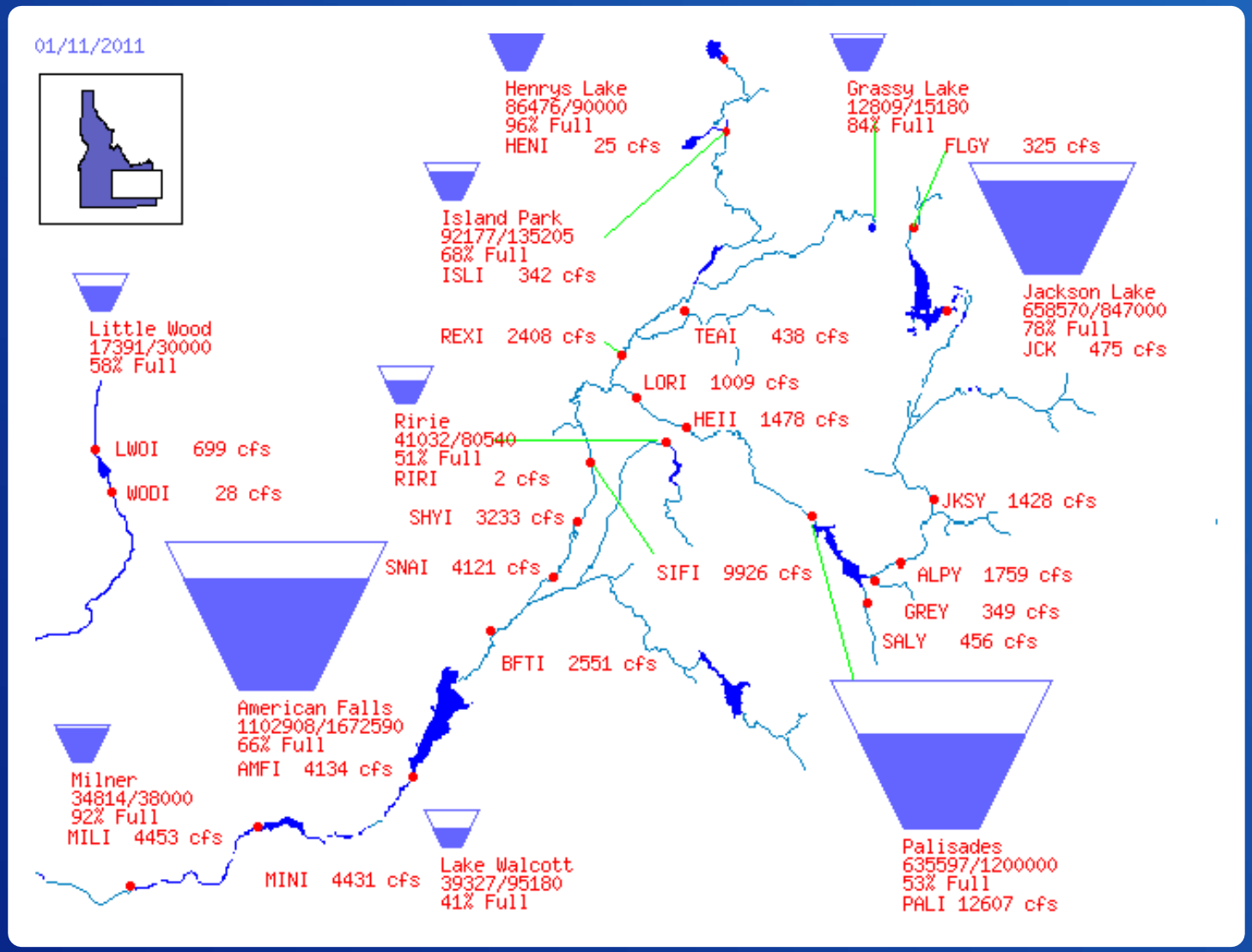
2011 Water Operations

- Upper Snake River System Teacup
- Upper Snake River Carryover Storage
- 2011 Storage Supply
- Reservoir by Reservoir Storage
- Unregulated flows into Jackson Lake
- Precipitation Probabilities & Drought Outlook
- Current SWE & Precipitation
- January 1, 2011 Forecast

RECLAMATION

Major Storage Reservoirs in the Upper Snake River Basin

Upper Snake River system (Jackson Lake, Palisades, Grassy Lake, Island Park, Ririe, American Falls, Lake Walcott) is at 64% of capacity. Total space available: 1,463,273 AF with a Total storage capacity: 4,045,695 AF



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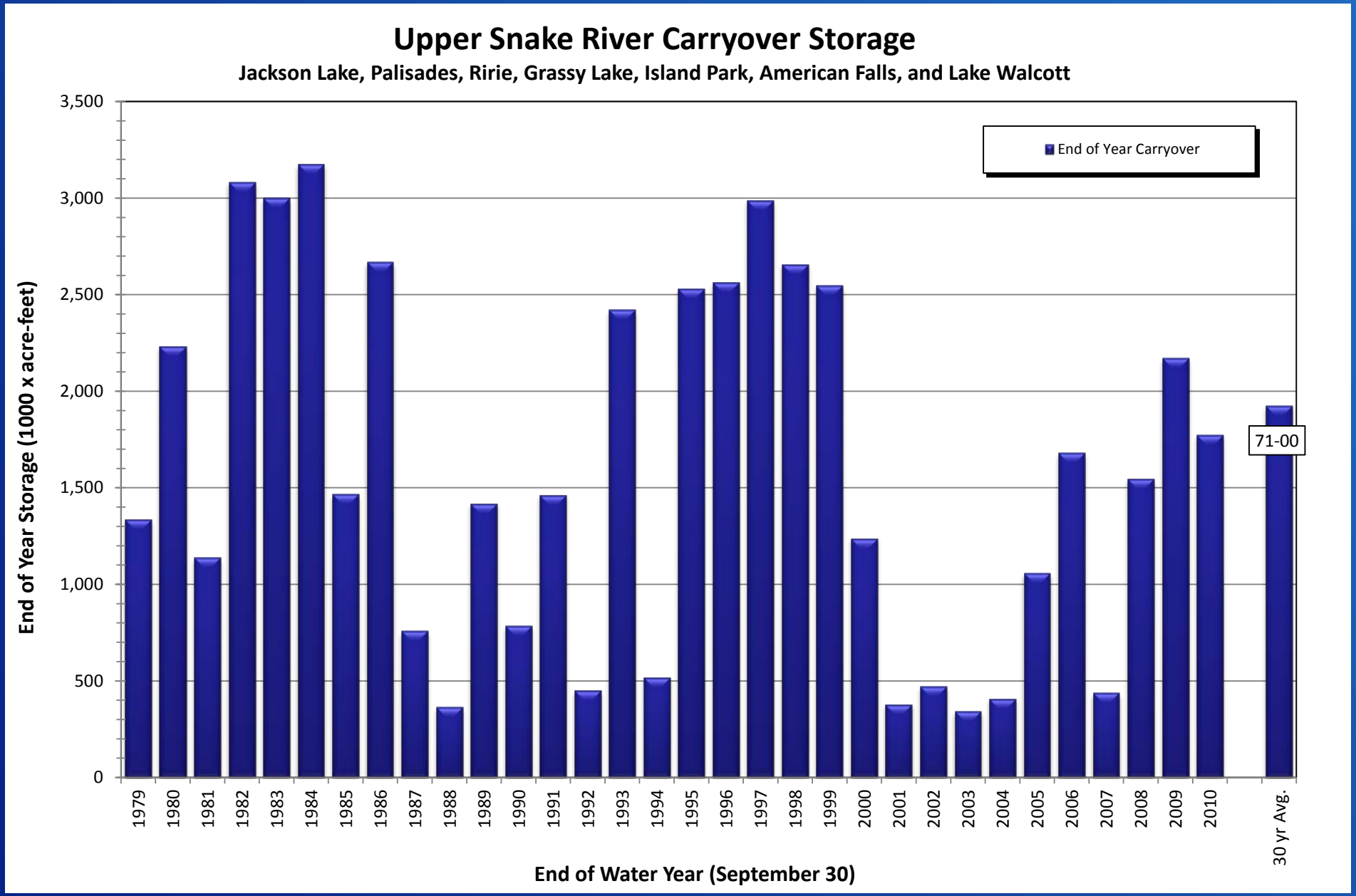

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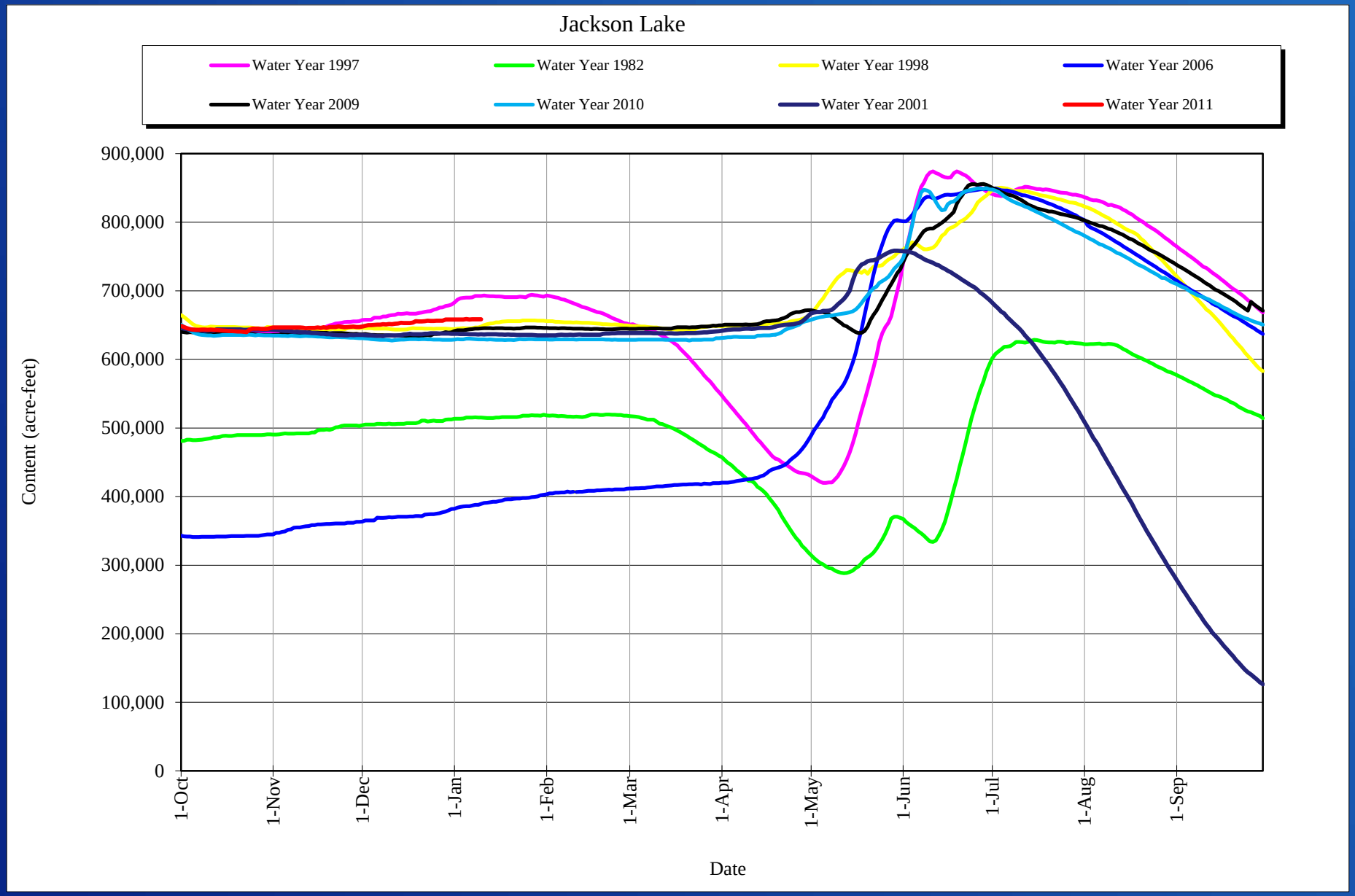

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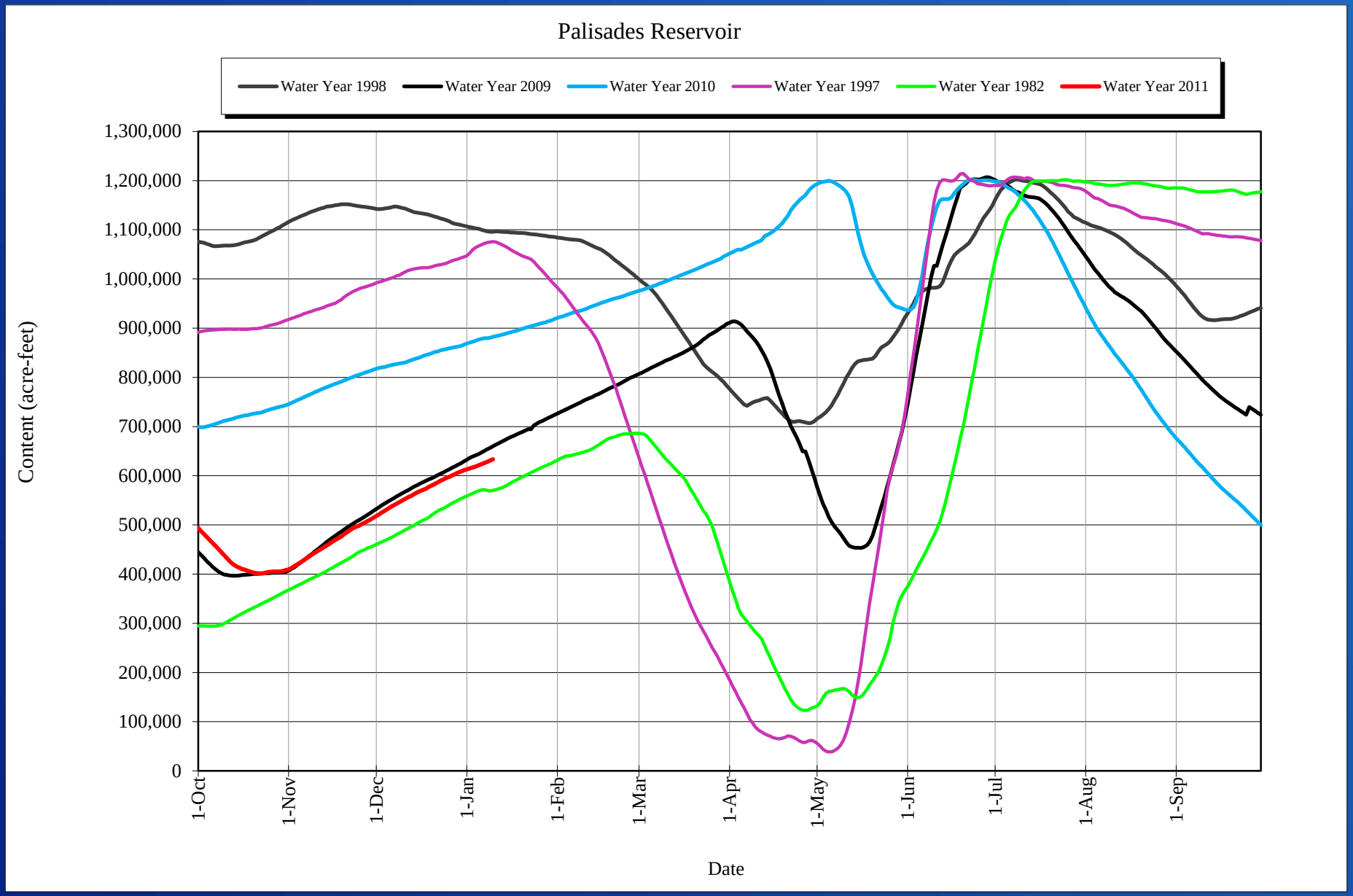

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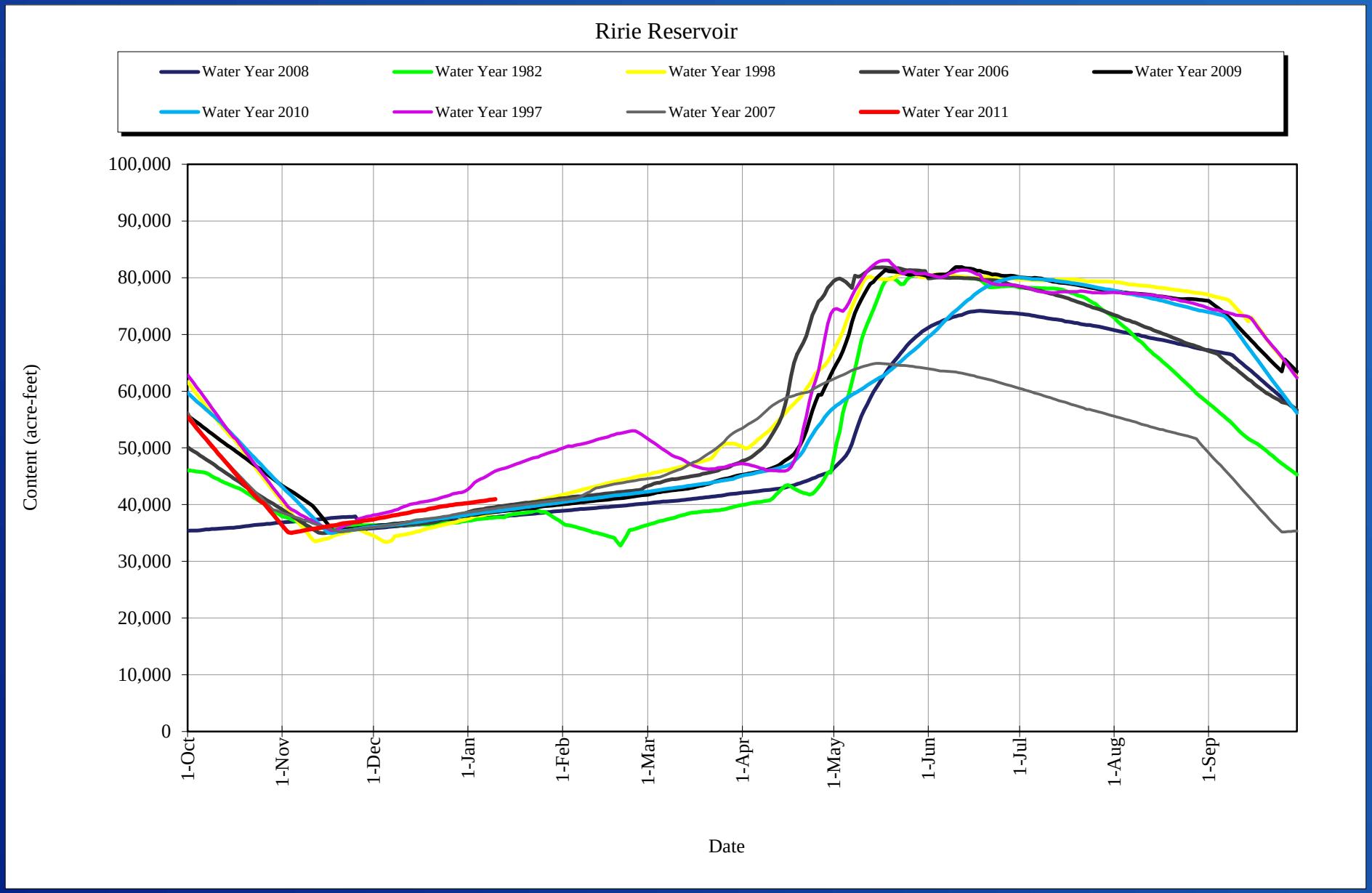

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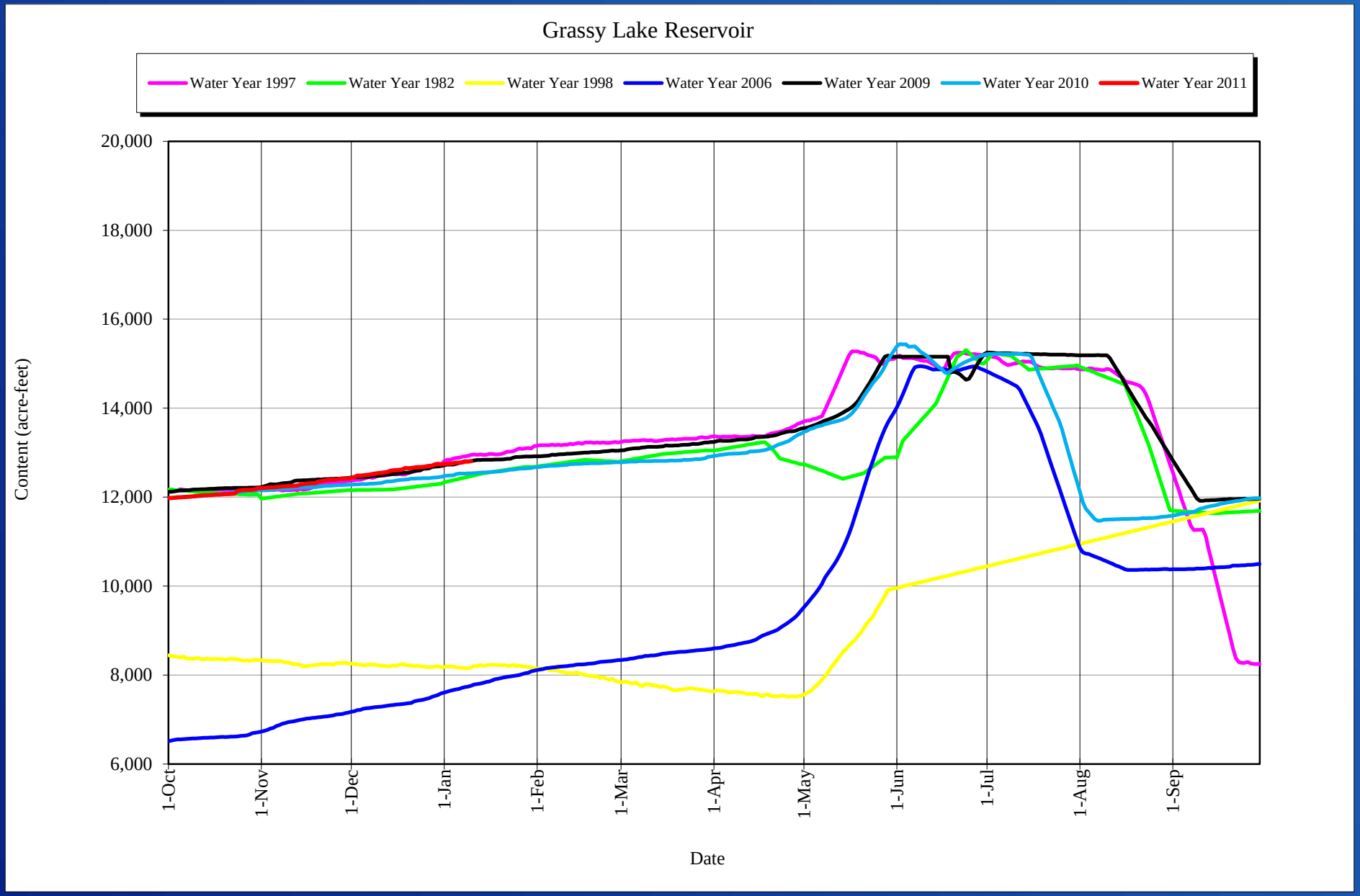

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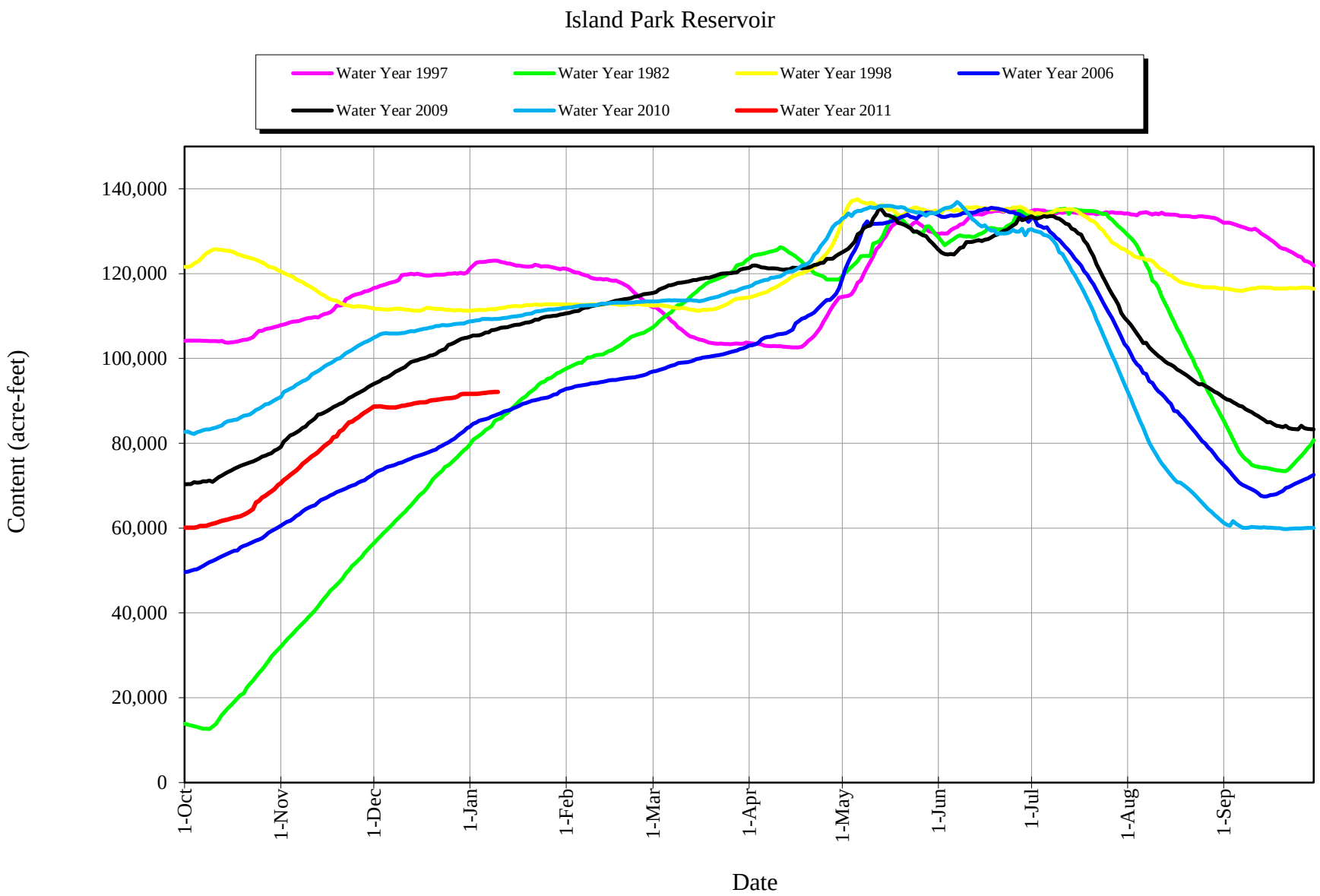

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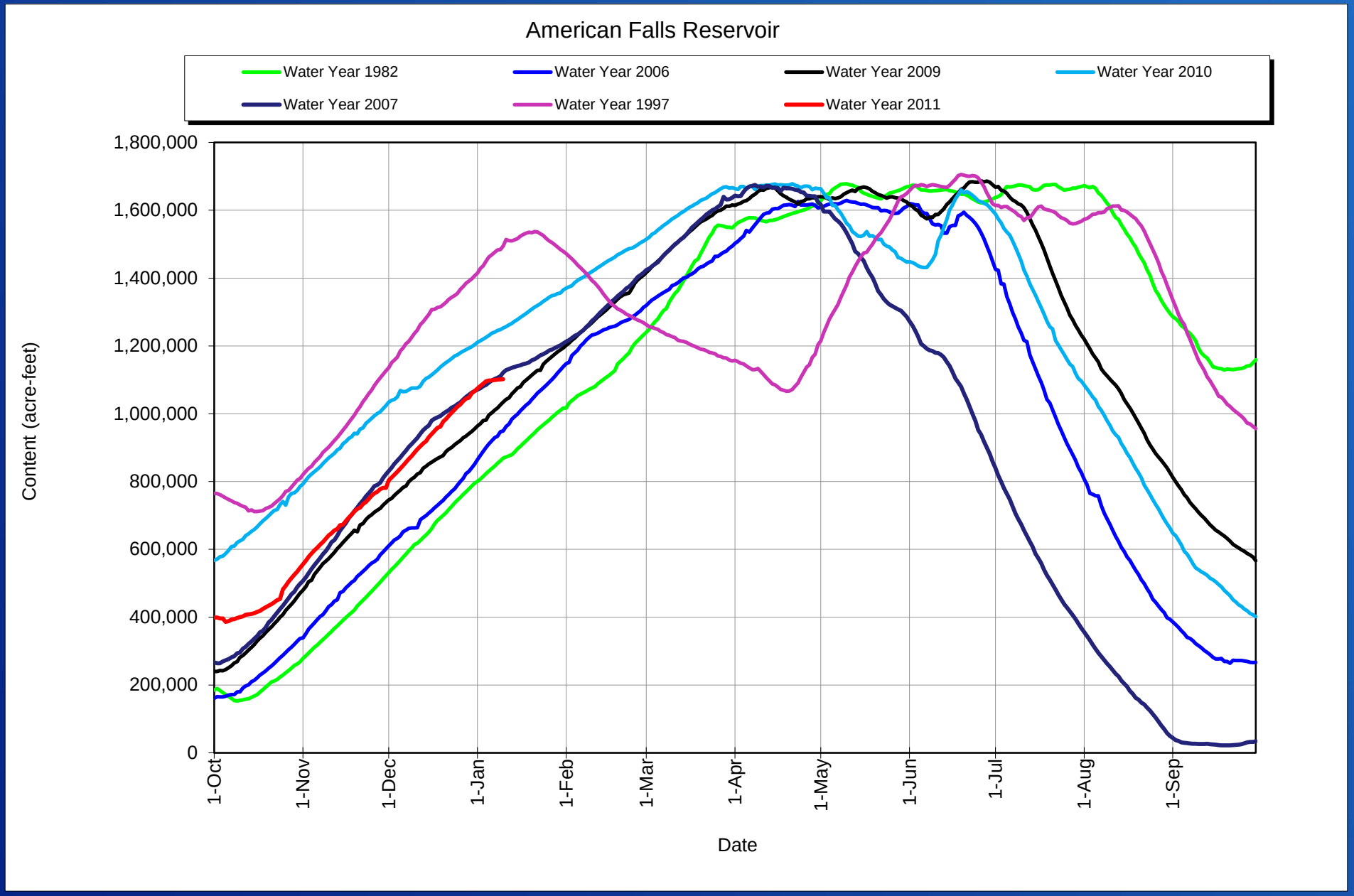

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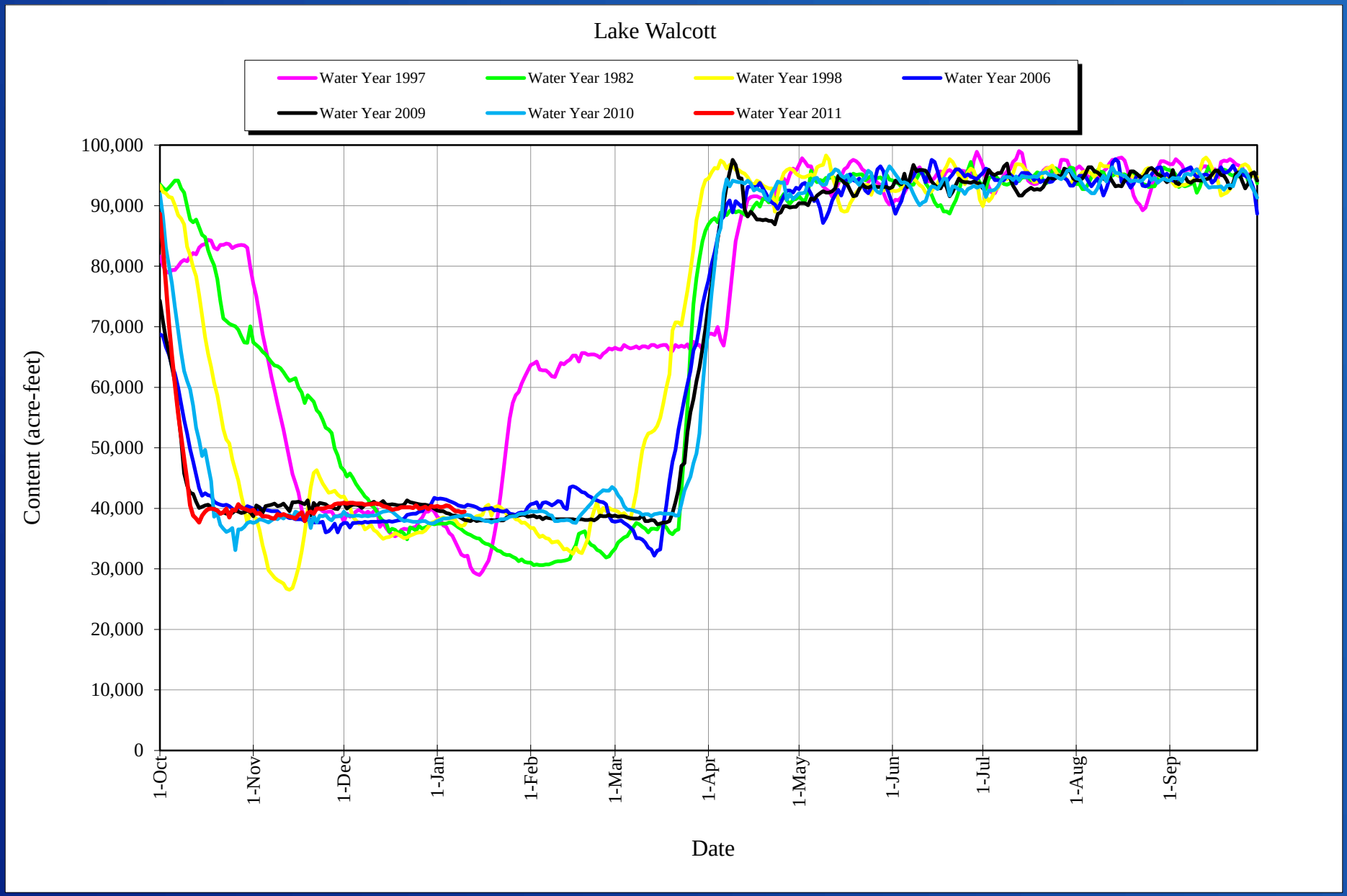

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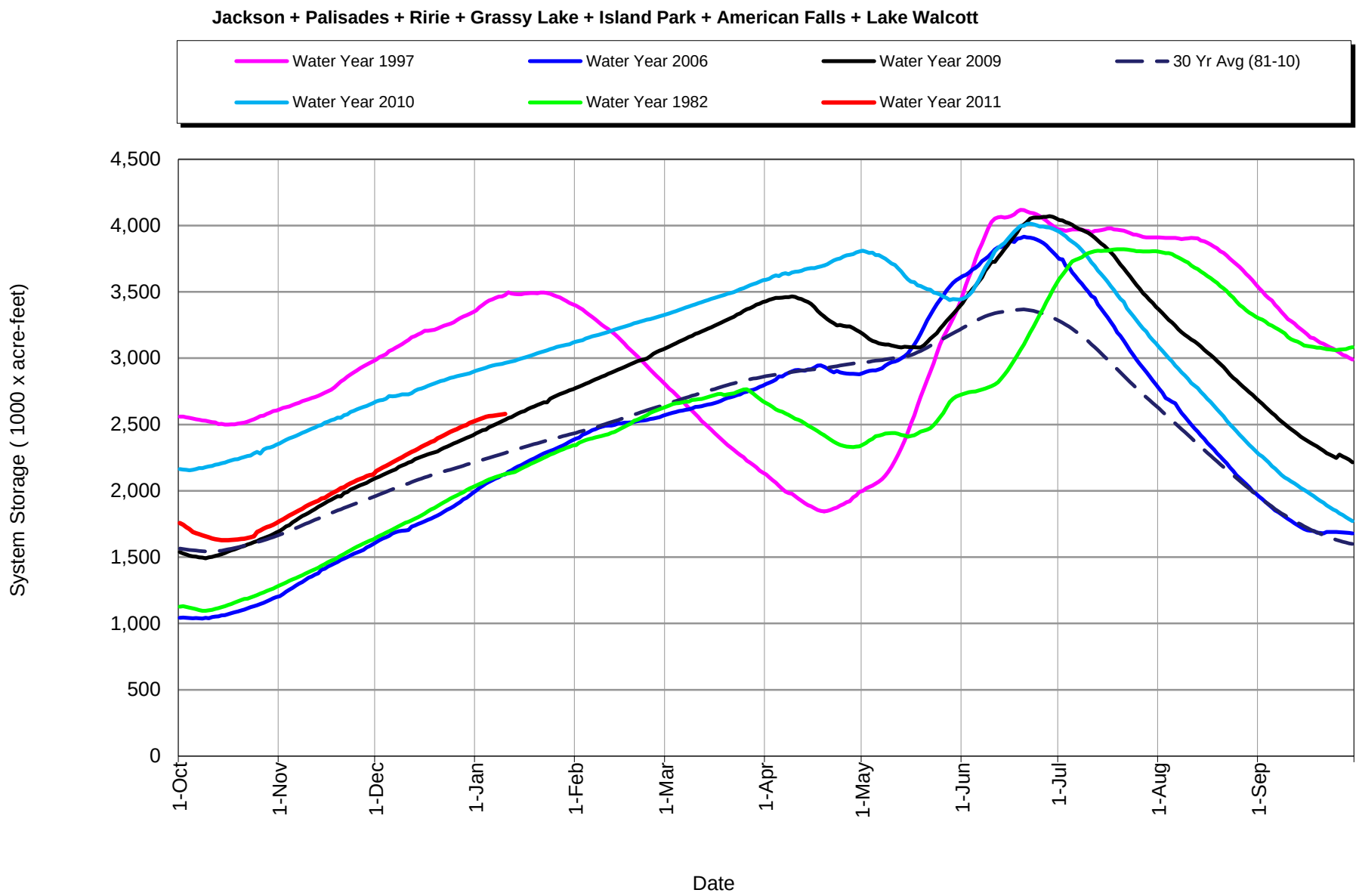

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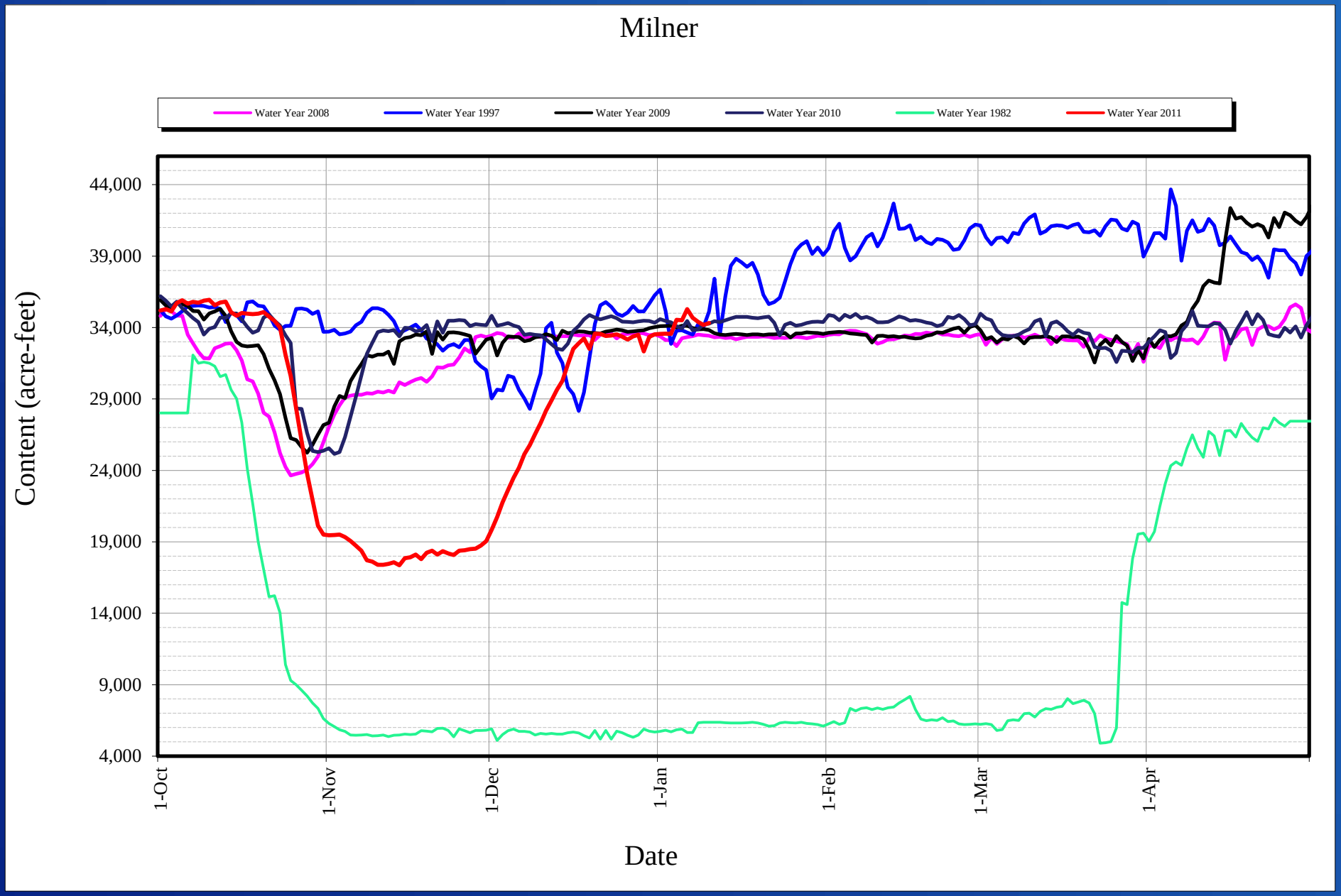

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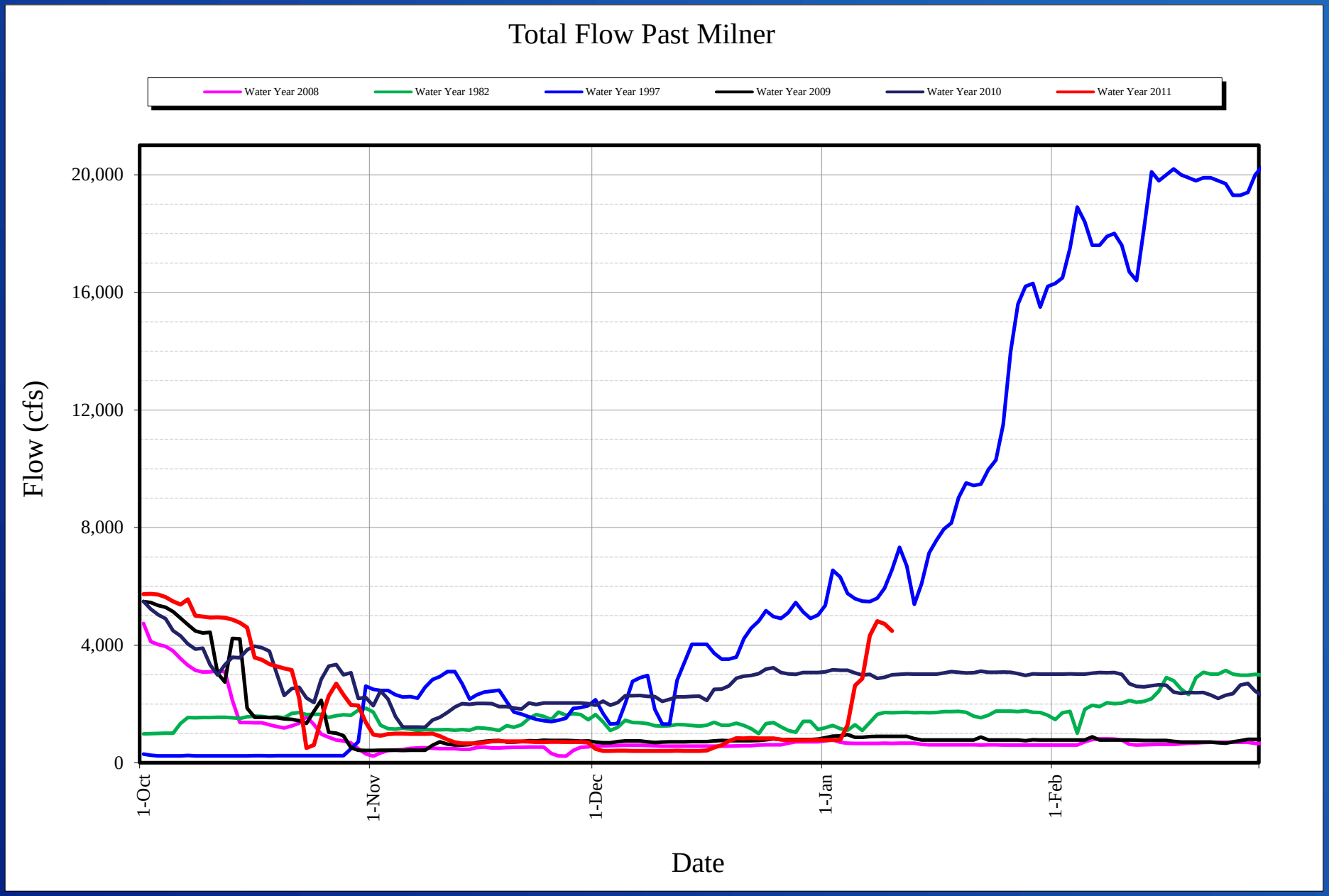

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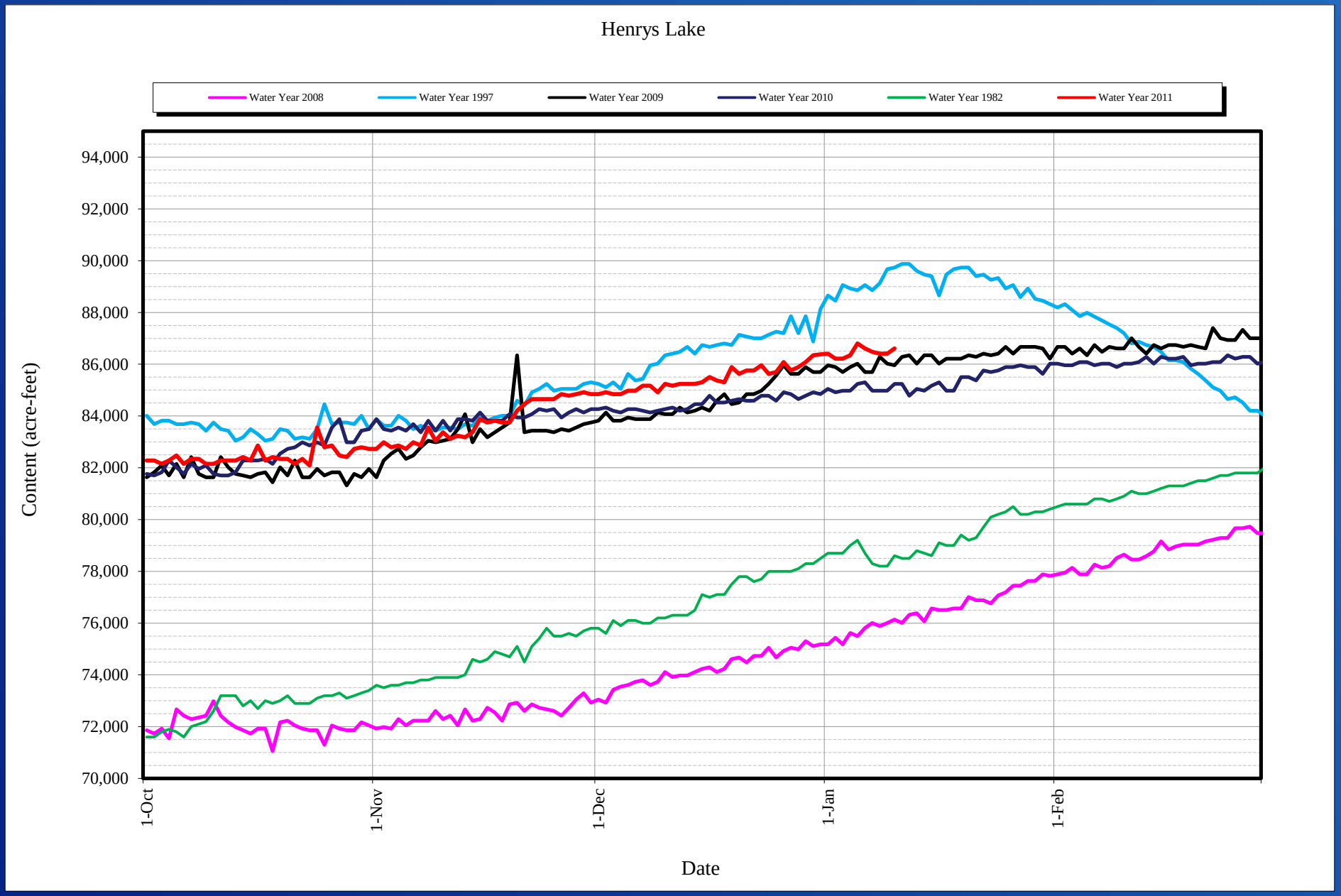

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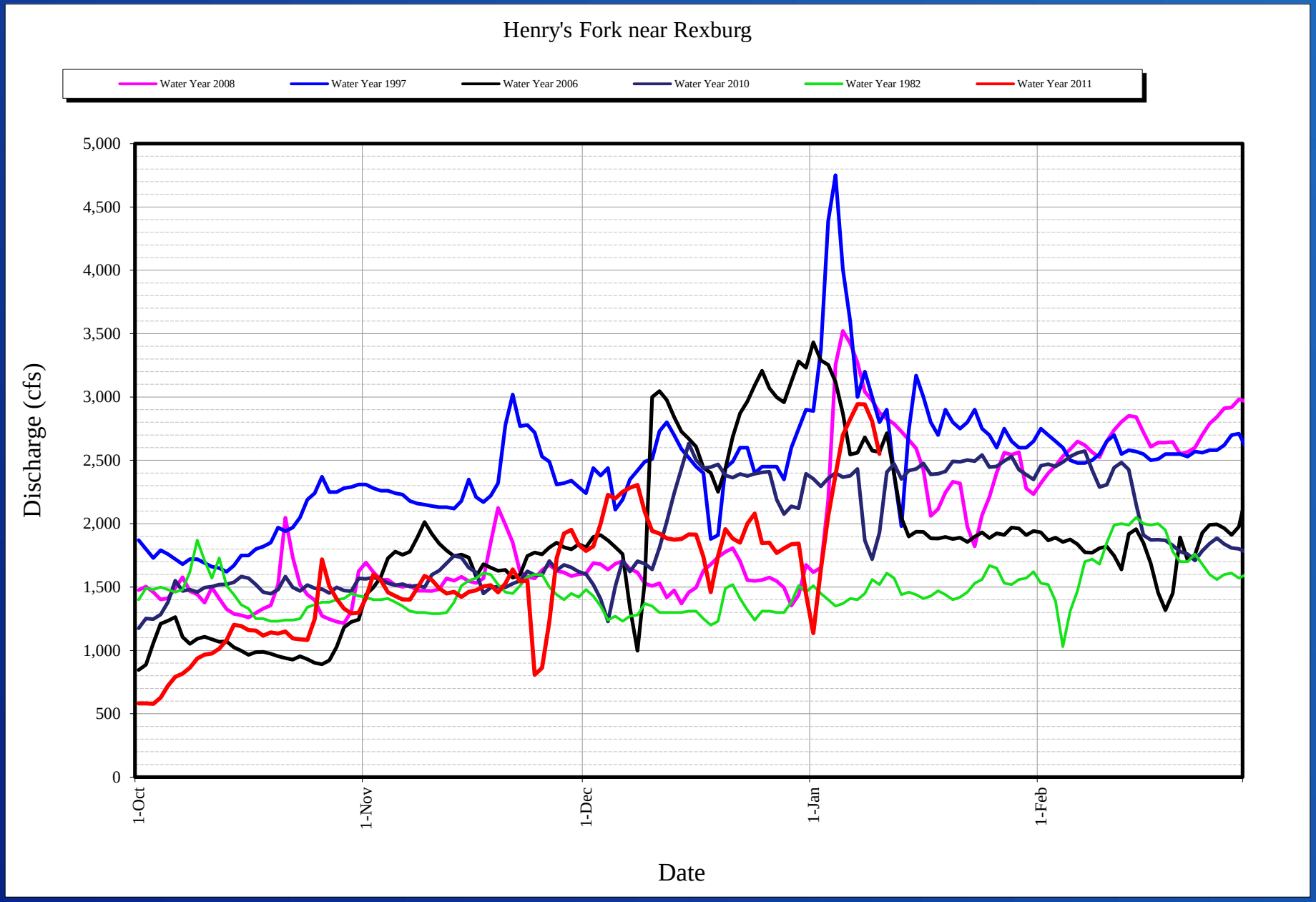

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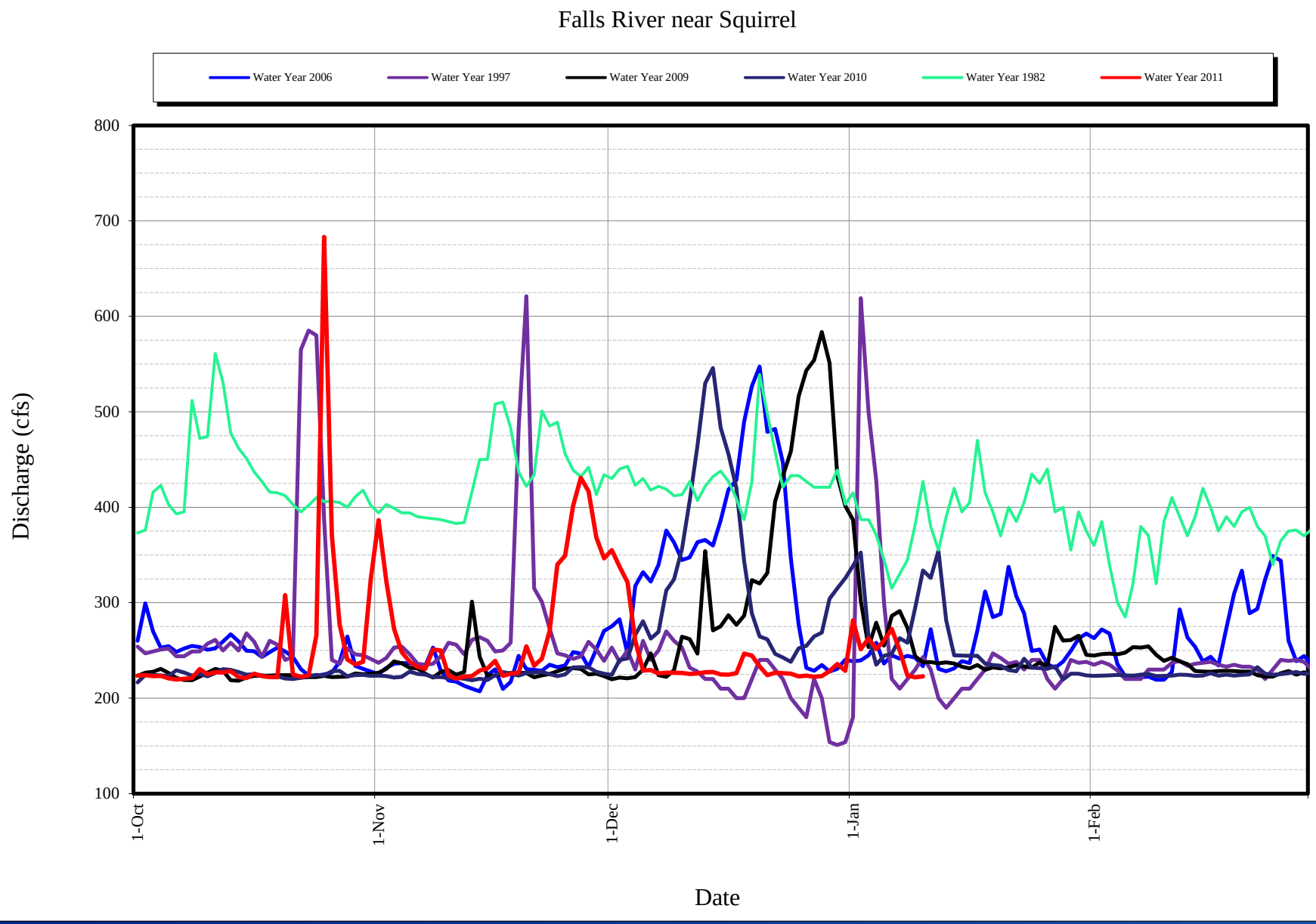

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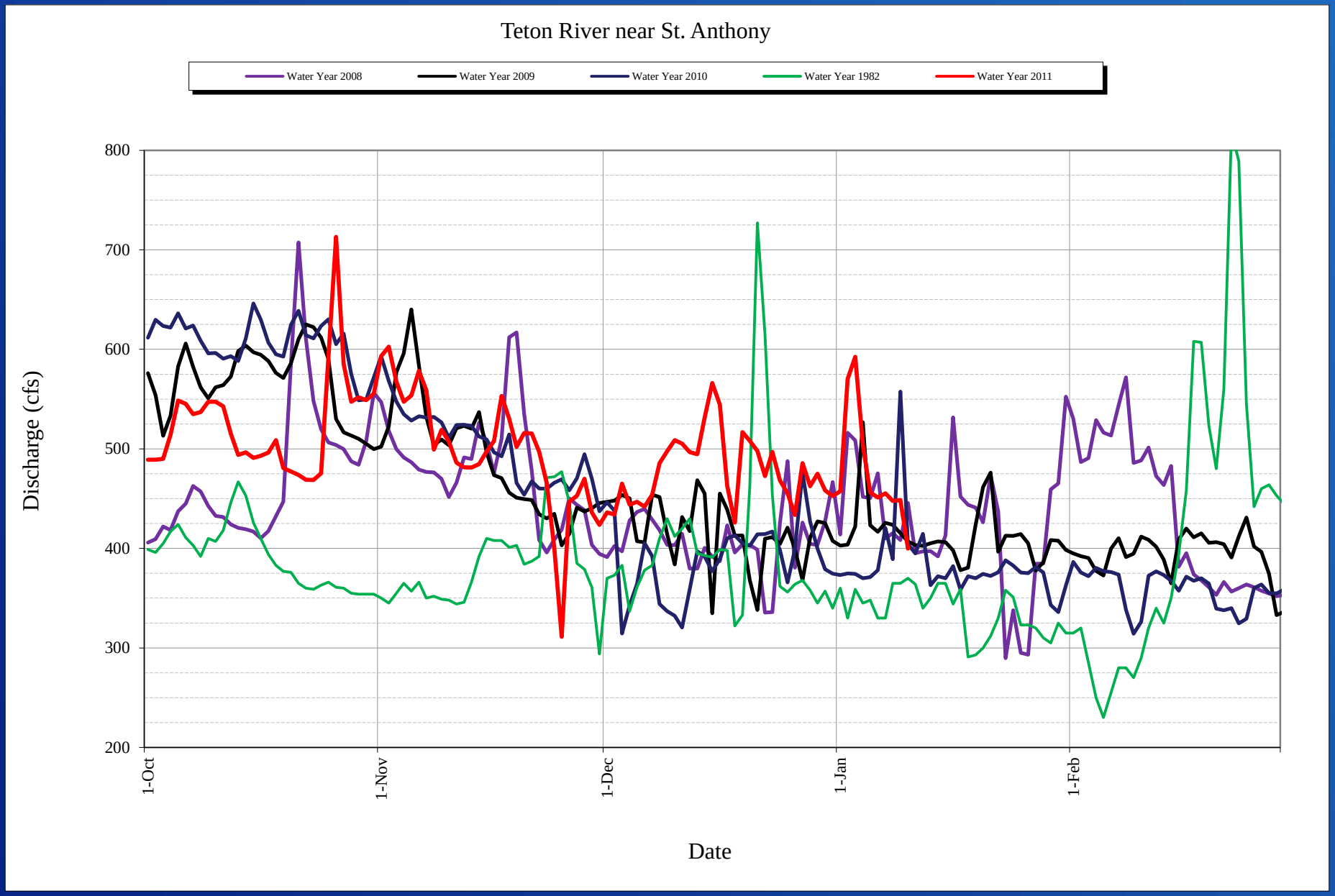

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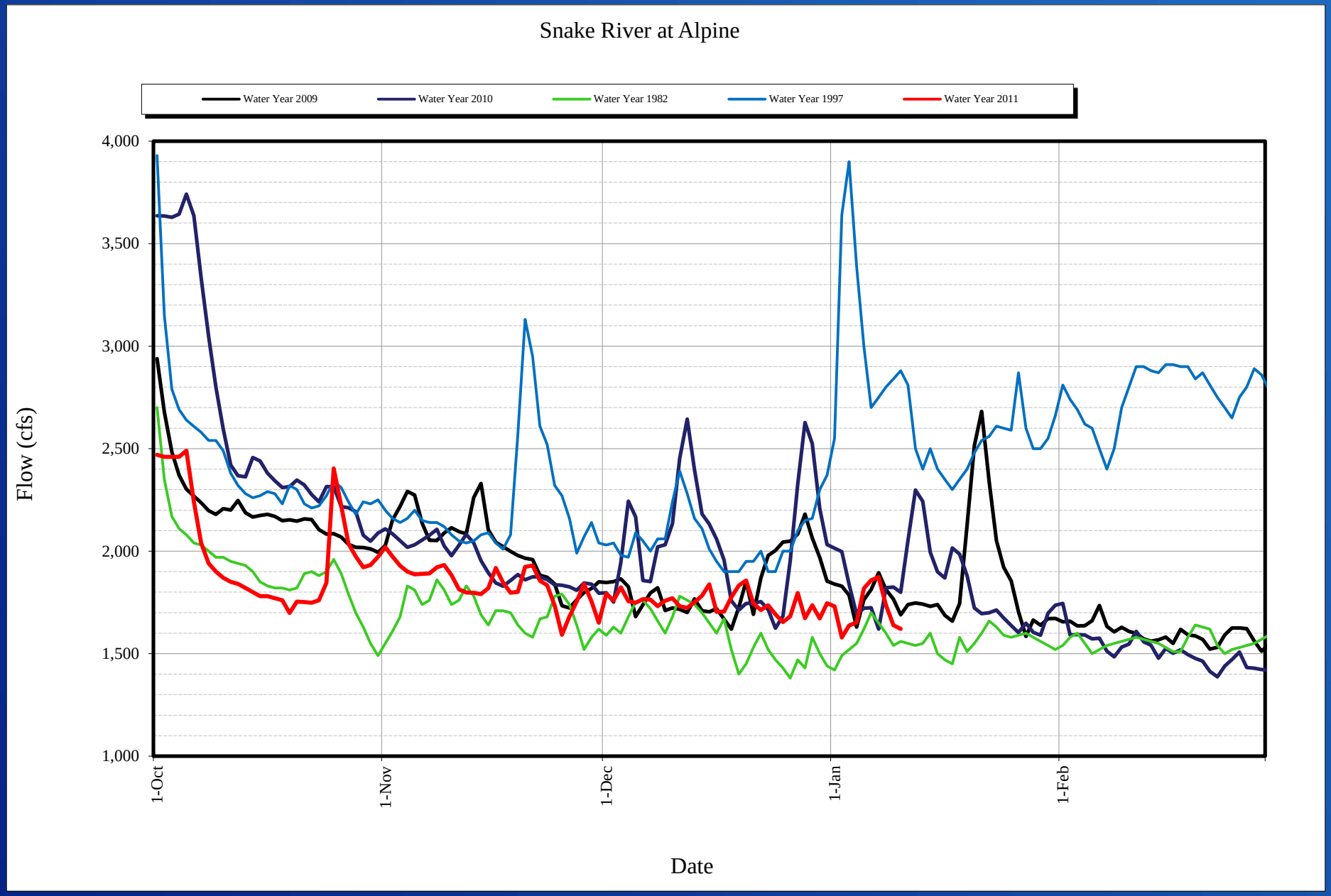

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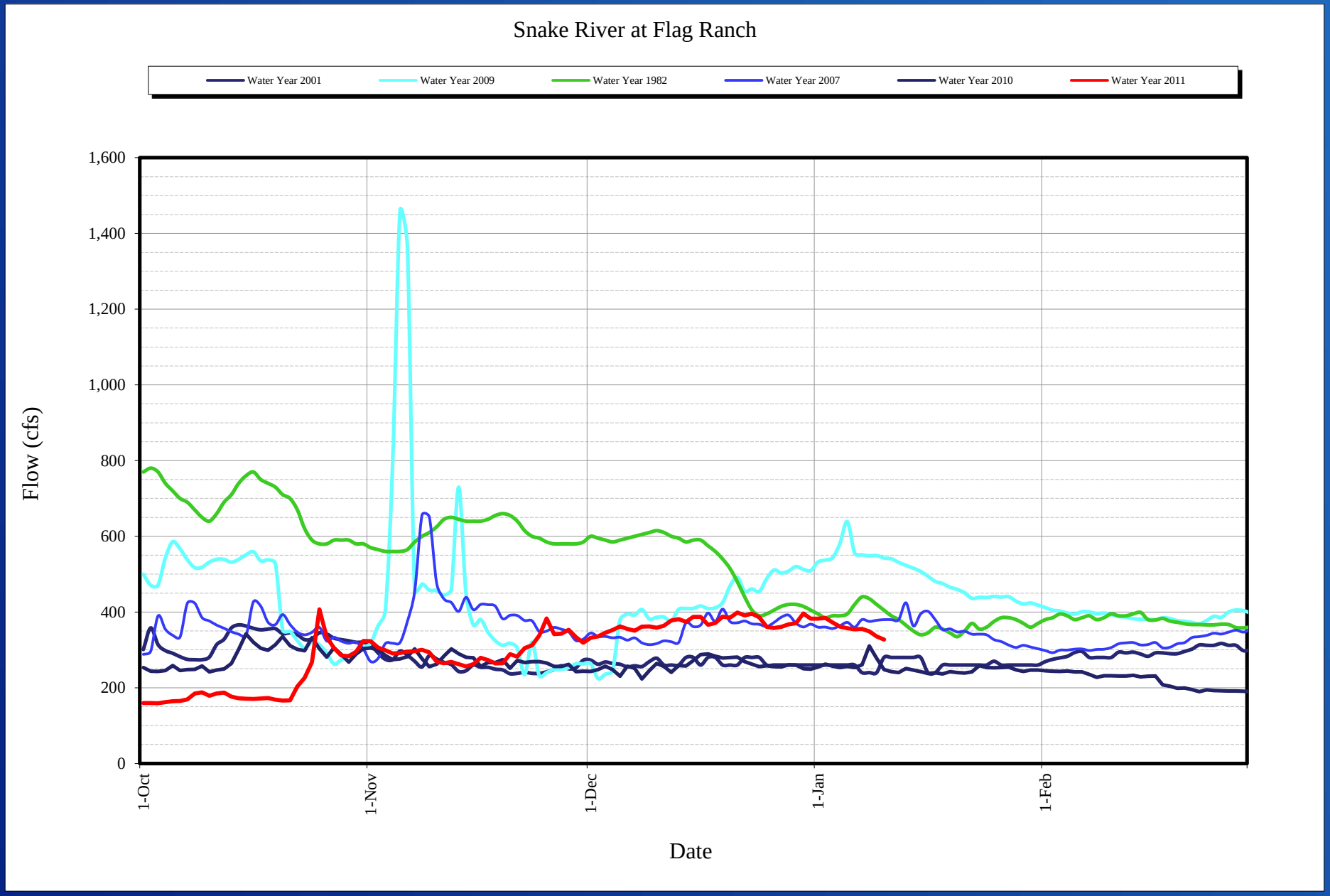

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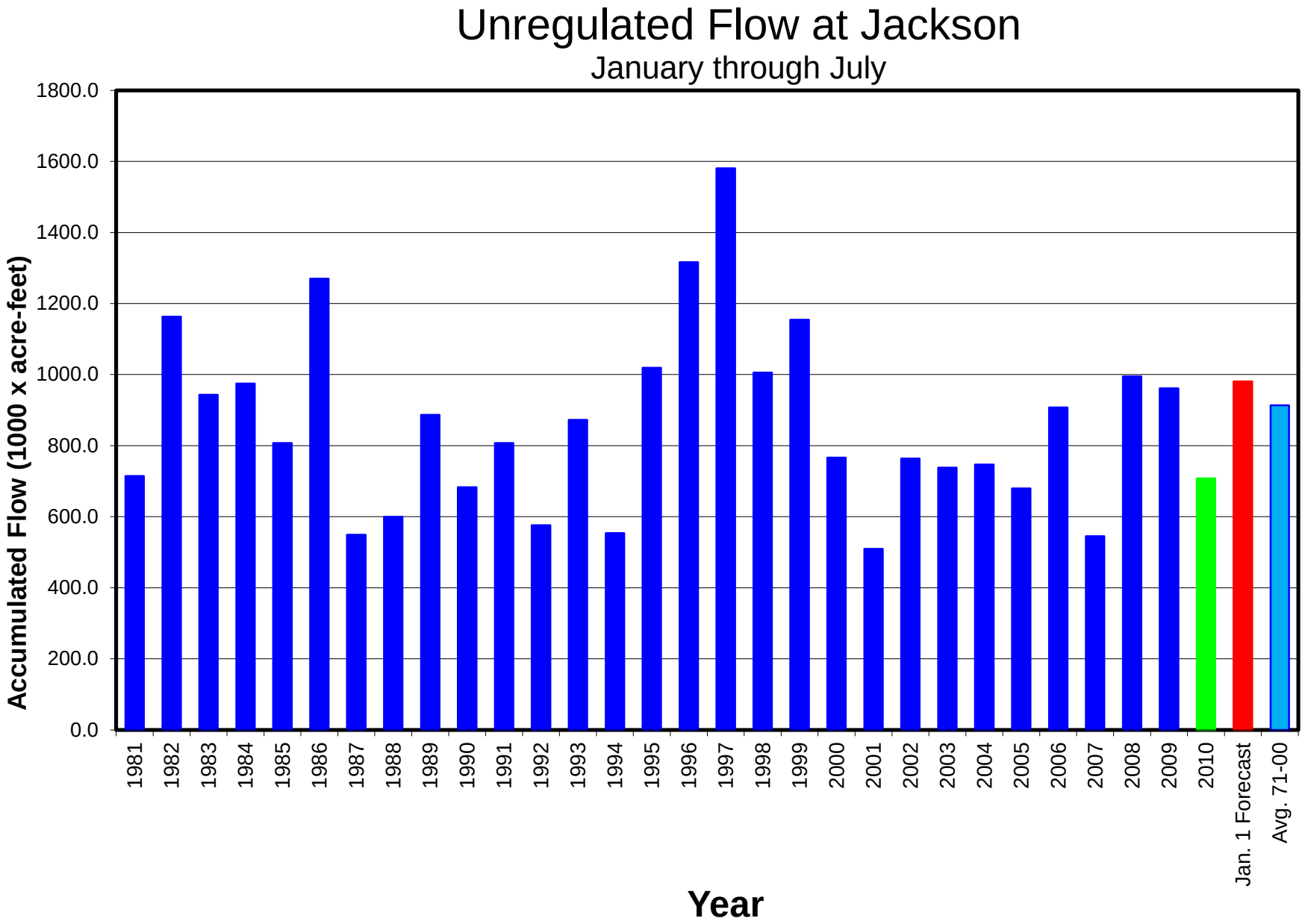

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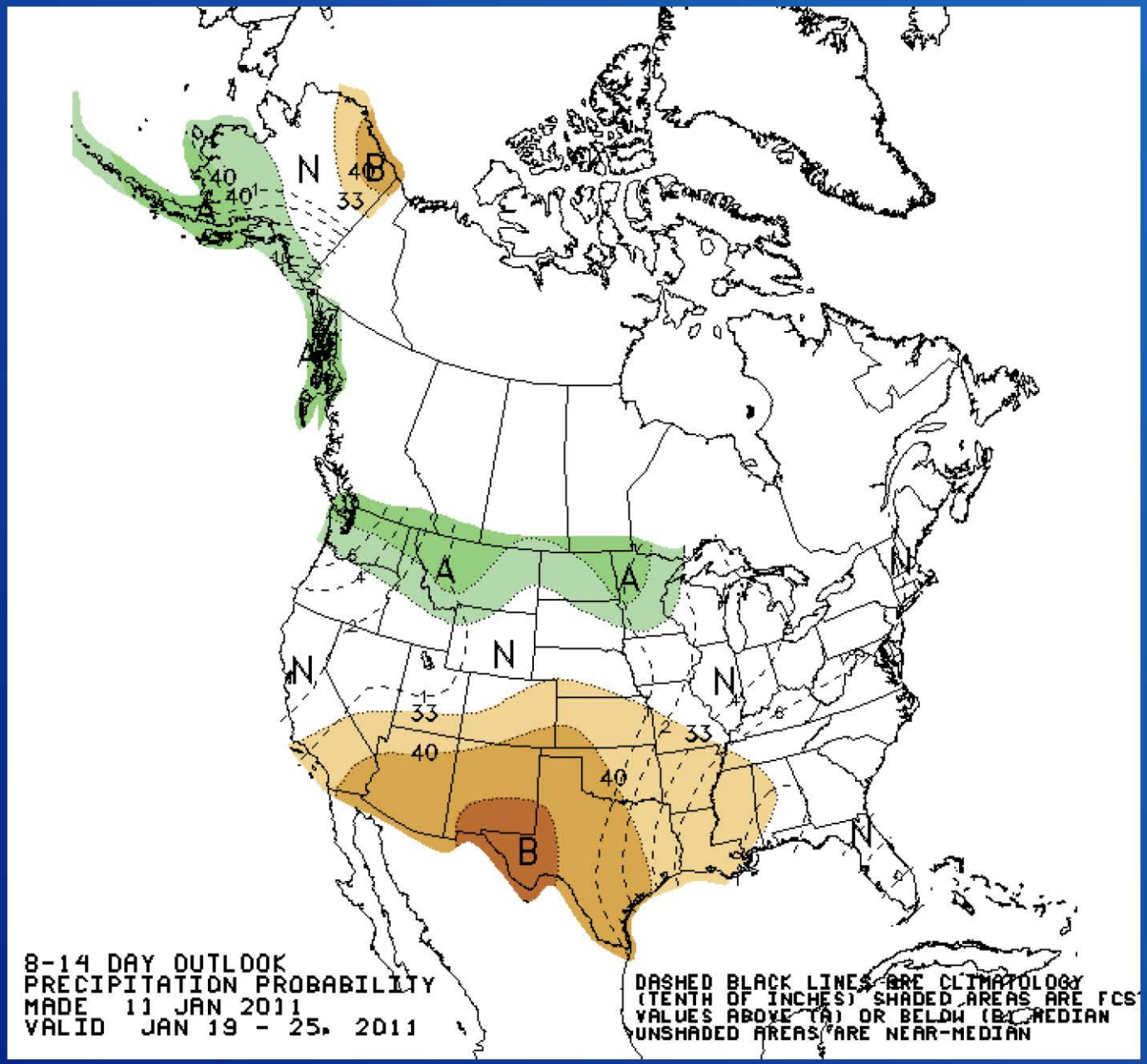

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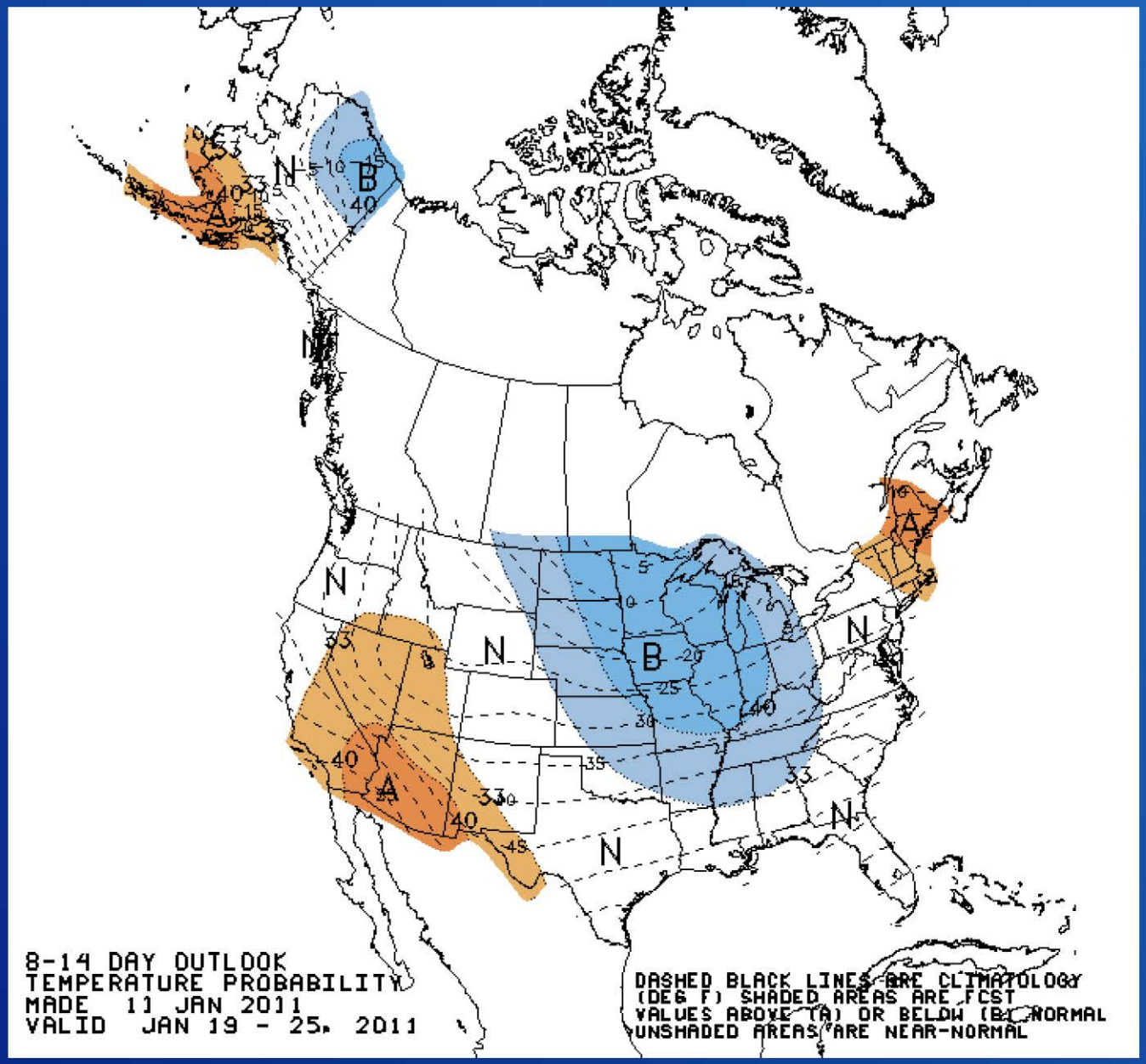

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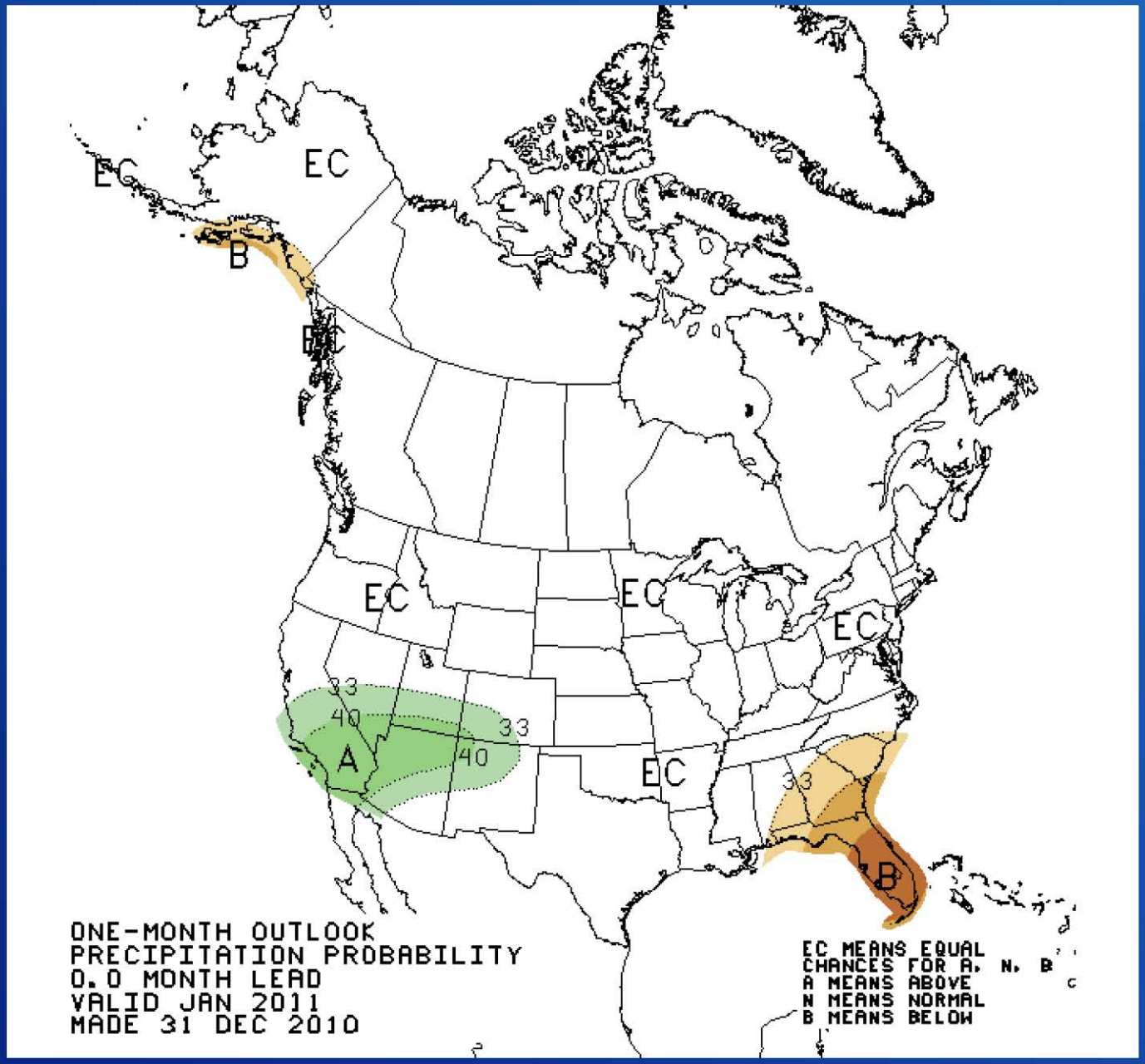

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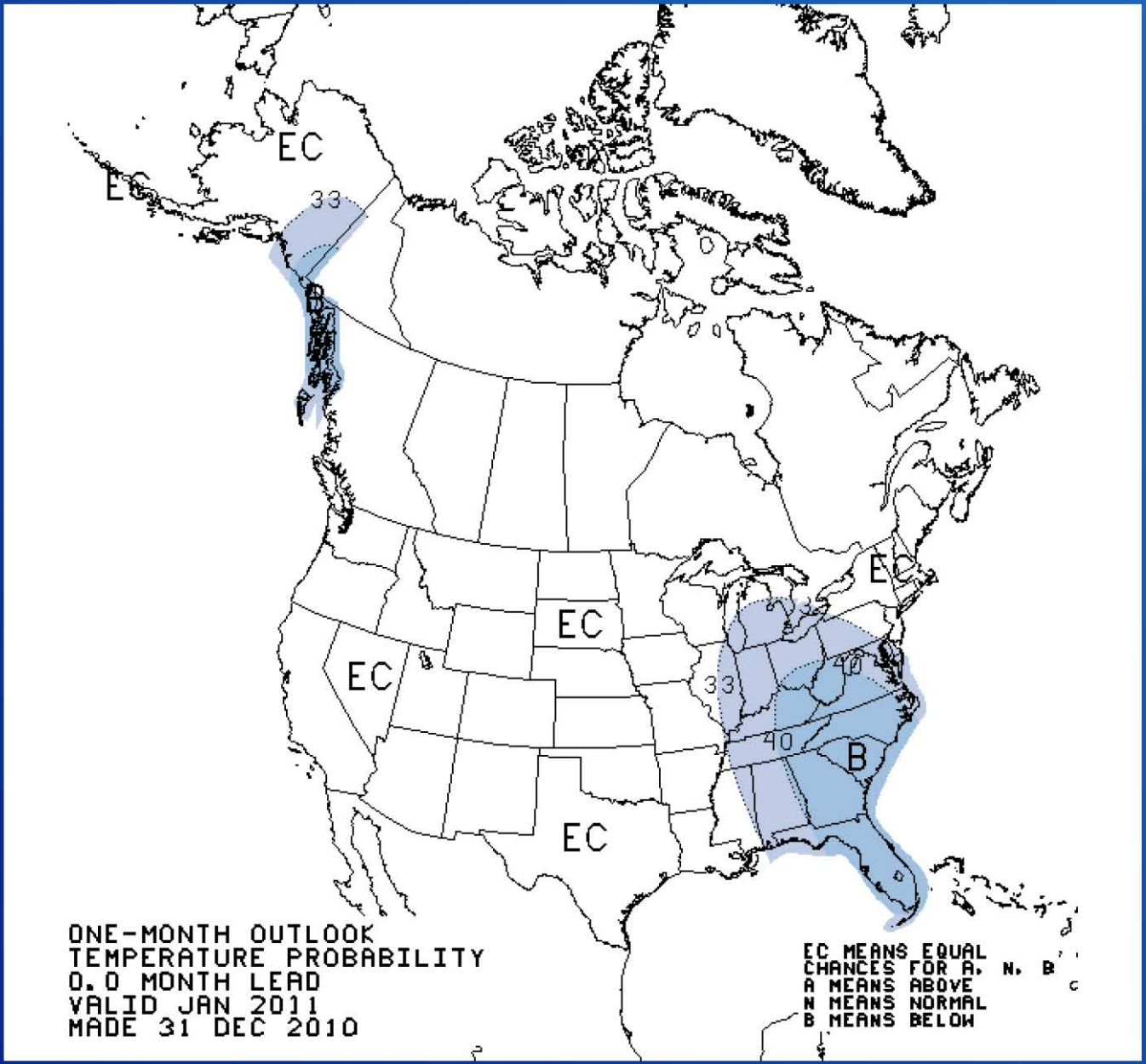

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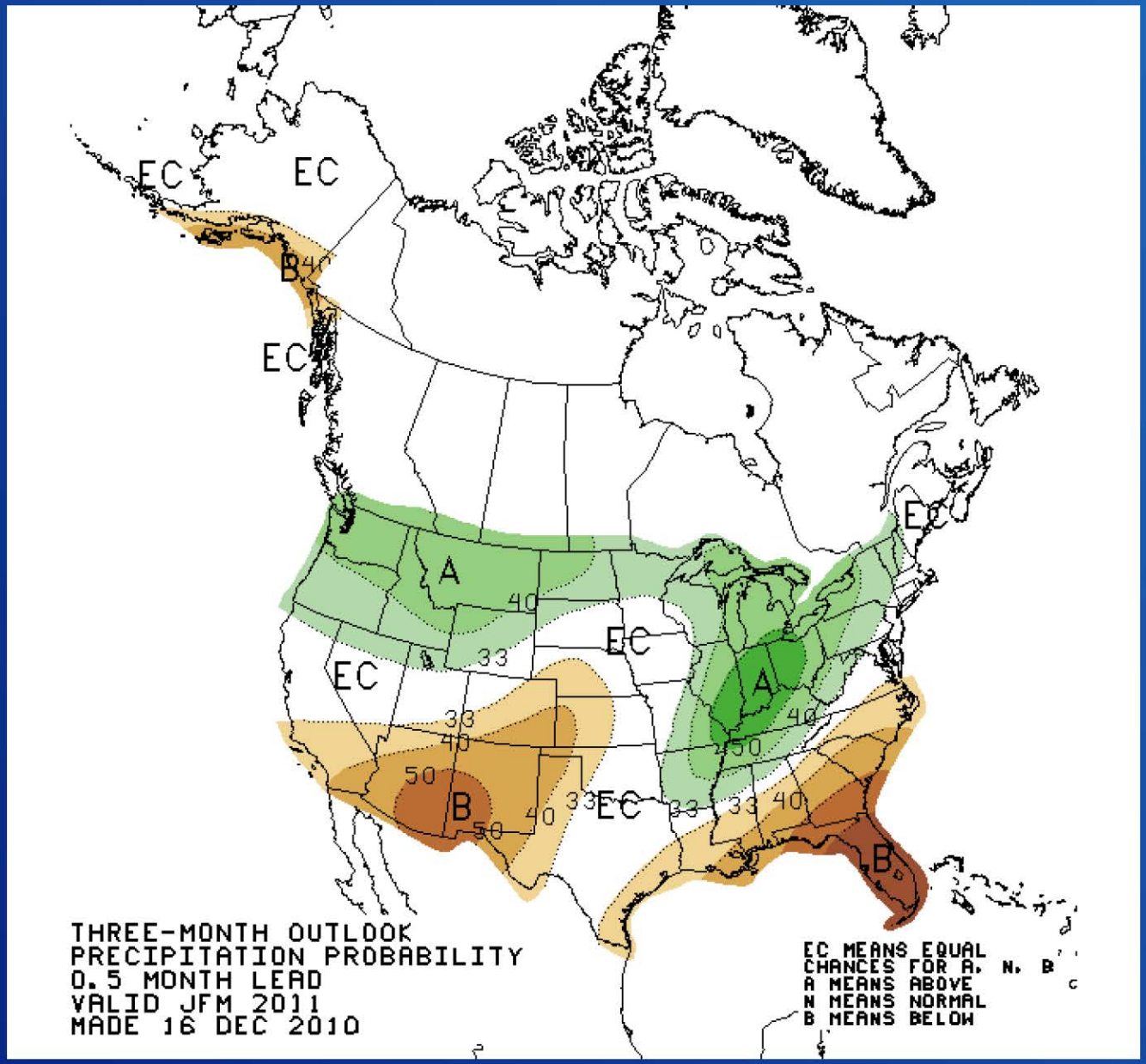

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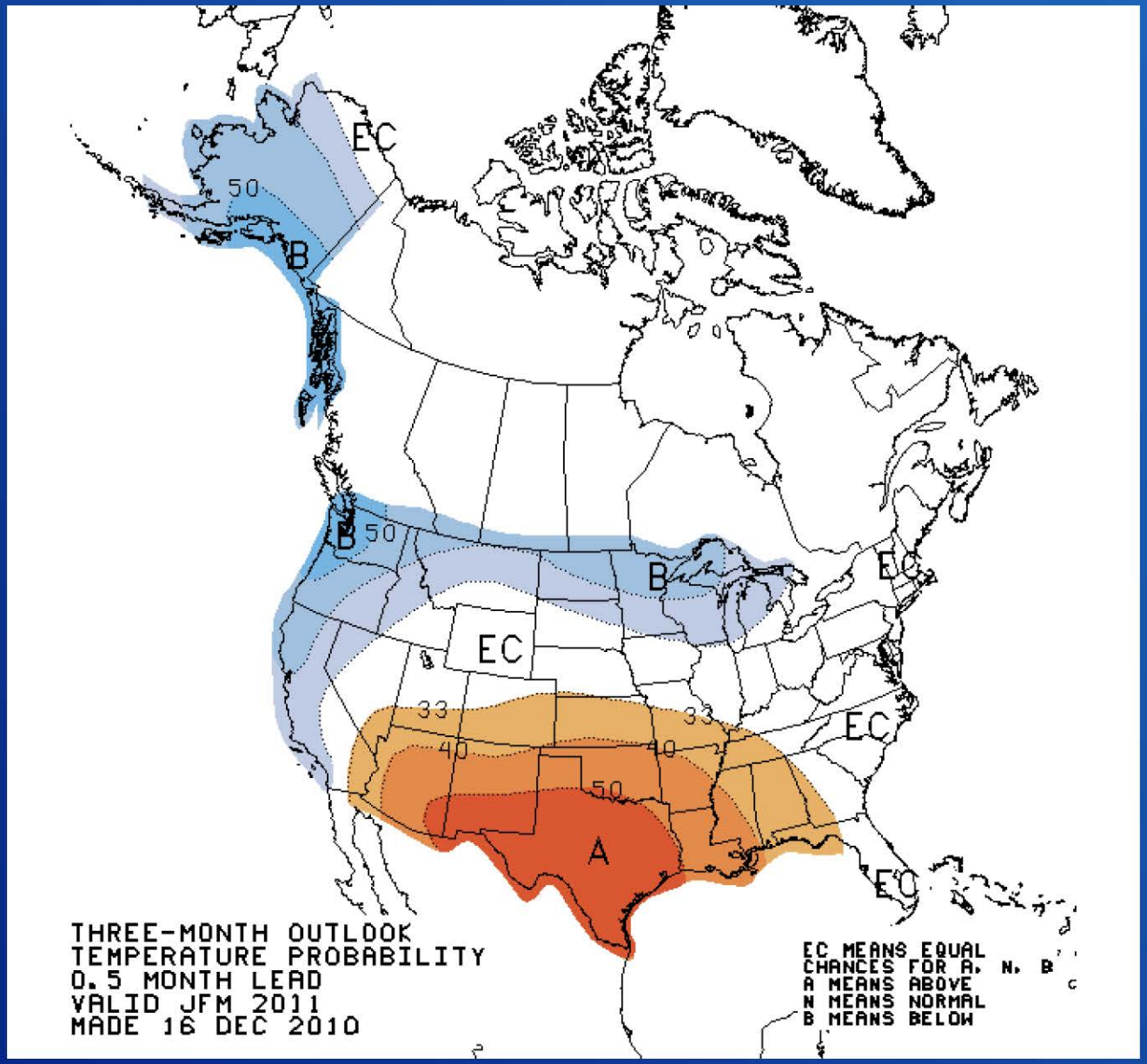


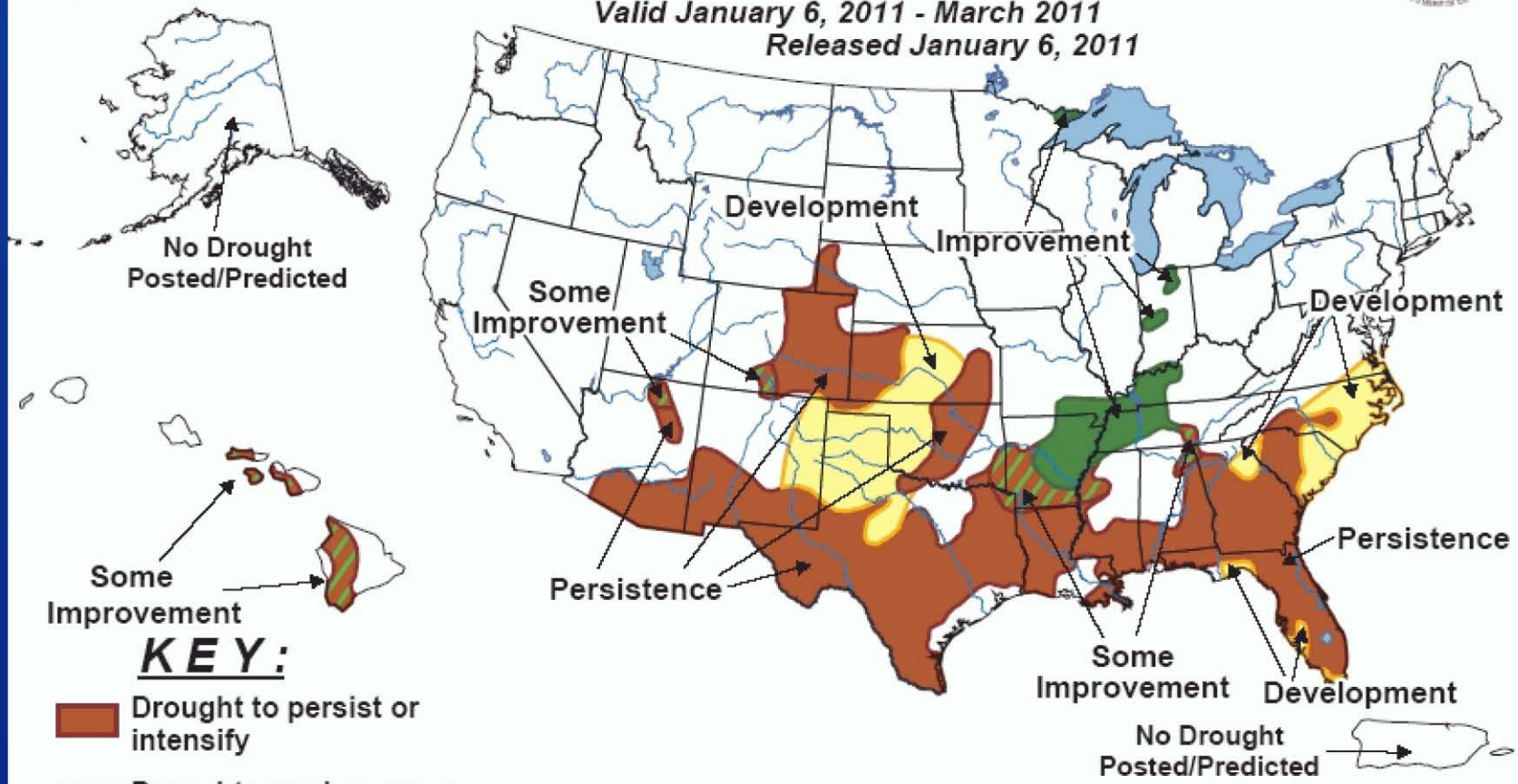
RECLAMATION

U.S. Seasonal Drought Outlook

Drought Tendency During the Valid Period

Valid January 6, 2011 - March 2011

Released January 6, 2011



KEY:

- Drought to persist or intensify
- Drought ongoing, some improvement
- Drought likely to improve, impacts ease
- Drought development likely

Depicts large-scale trends based on subjectively derived probabilities guided by short- and long-range statistical and dynamical forecasts. Short-term events -- such as individual storms -- cannot be accurately forecast more than a few days in advance. Use caution for applications -- such as crops -- that can be affected by such events. "Ongoing" drought areas are approximated from the Drought Monitor (D1 to D4 intensity). For weekly drought updates, see the latest U.S. Drought Monitor. NOTE: the green improvement areas imply at least a 1-category improvement in the Drought Monitor intensity levels, but do not necessarily imply drought elimination.

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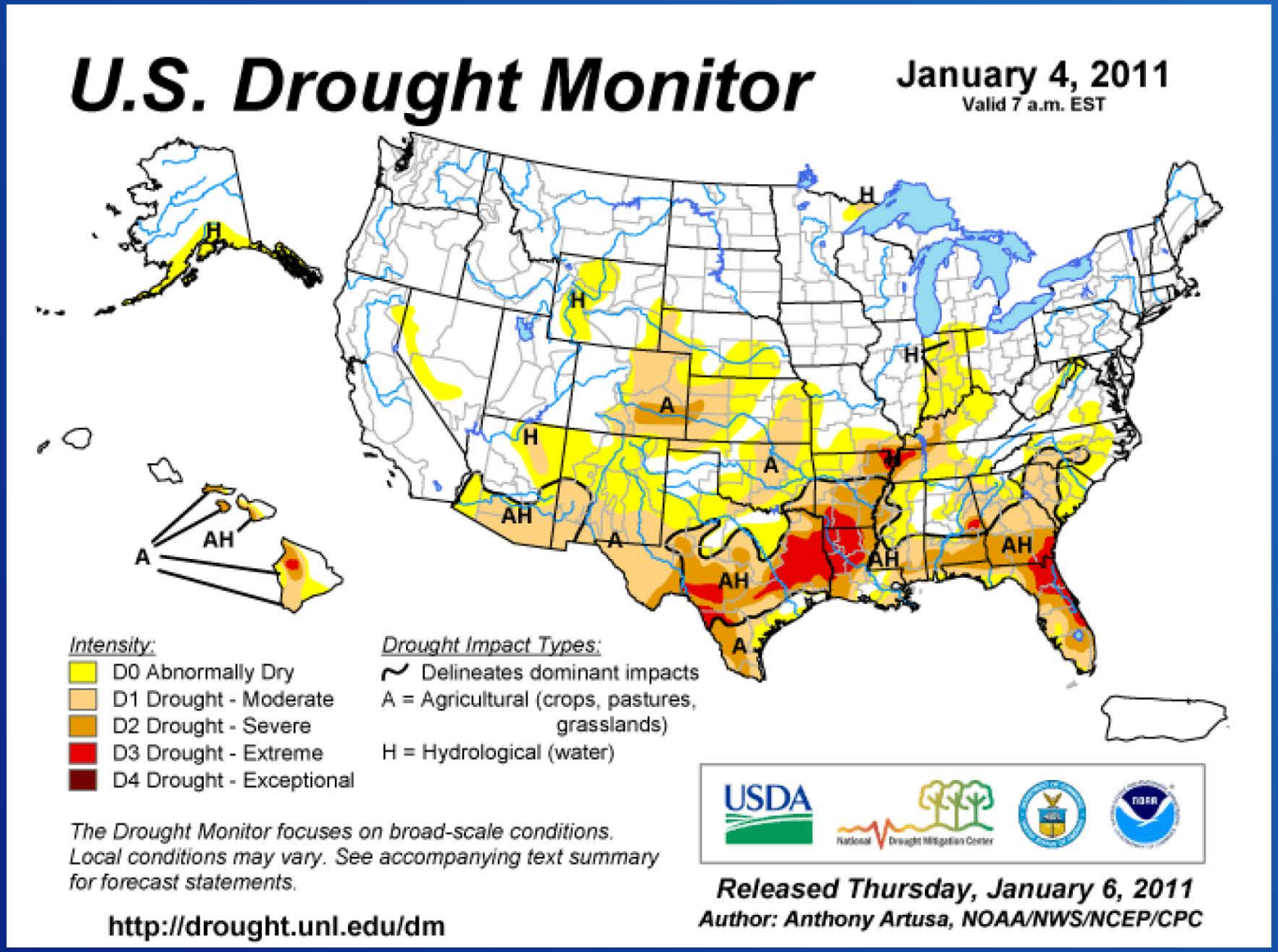

RECLAMATION

Idaho SNOTEL Snow/Precipitation Update Report

Based on Mountain Data from NRCS SNOTEL Sites

Provisional data, subject to revision

Data based on the first reading of the day (typically 00:00) for Wednesday, January 12, 2011

Basin / Site Name	Elev (ft)	Snow Water Equivalent			Year-to-Date Precipitation		
		Current (in)	Average (in)	Pct of Avg	Current (in)	Average (in)	Pct of Avg
HENRYS FORK, TETON BASINS							
BLACK BEAR	8170	24.3	20.5	119	24.6	20.8	118
GRAND TARGHEE	9260	26	N/A	*	18.9	N/A	*
GRASSY LAKE	7265	18.2	17.6	103	21.2	20.4	104
ISLAND PARK	6290	9.7	7.9	123	12.8	10.1	127
LEWIS LAKE DIVIDE	7850	19.3	17.7	109	20.8	20.4	102
PHILLIPS BENCH	8200	17.1	14.8	116	18.6	15.8	118
PINE CREEK PASS	6720	9.9	8.3	119	15.3	11.7	131
WHITE ELEPHANT	7710	17.3	14	124	20.8	16.1	129
Basin-wide percent of average		**115**			**116**		
SNAKE BASIN ABOVE PALISADES							
BASE CAMP	7030	10.5	9.8	107	13.8	12.1	114
BLIND BULL SUM	8650	14.7	15.1	97	11.1	12.8	87
COTTONWOOD CREEK	7670	14.9	11.4	131	19.4	15.6	124
EAST RIM DIVIDE	7930	7.2	6.8	106	7.1	6.7	106
GRANITE CREEK	6770	10.9	9.3	117	13.3	11.1	120
GRASSY LAKE	7265	18.2	17.6	103	21.2	20.4	104
GROS VENTRE SUMMIT	8750	8.8	7.9	111	8.6	7.2	119
GUNSIGHT PASS	9820	9.4	N/A	*	9.7	N/A	*
LEWIS LAKE DIVIDE	7850	19.3	17.7	109	20.8	20.4	102
LOOMIS PARK	8240	9.6	9.2	104	10.7	9.7	110
PHILLIPS BENCH	8200	17.1	14.8	116	18.6	15.8	118
SALT RIVER SUMMIT	7760	8.4	6.7	125	12.4	10.4	119
SNAKE RIVER STATION	6920	-M	9.5	*	14.6	12.7	115
SPRING CREEK DIVIDE	9000	16.7	14.3	117	17.3	15.2	114
THUMB DIVIDE	7980	12	9.1	132	12.5	10.5	119
TOGWOTEE PASS	9580	15.6	13.5	116	16.9	13.9	122
TWO OCEAN PLATEAU	9240	19.7	15.4	128	15.6	15.4	101
WILLOW CREEK	8380	17.2	16.5	104	22.4	18	124
Basin-wide percent of average		**113**			**112**		

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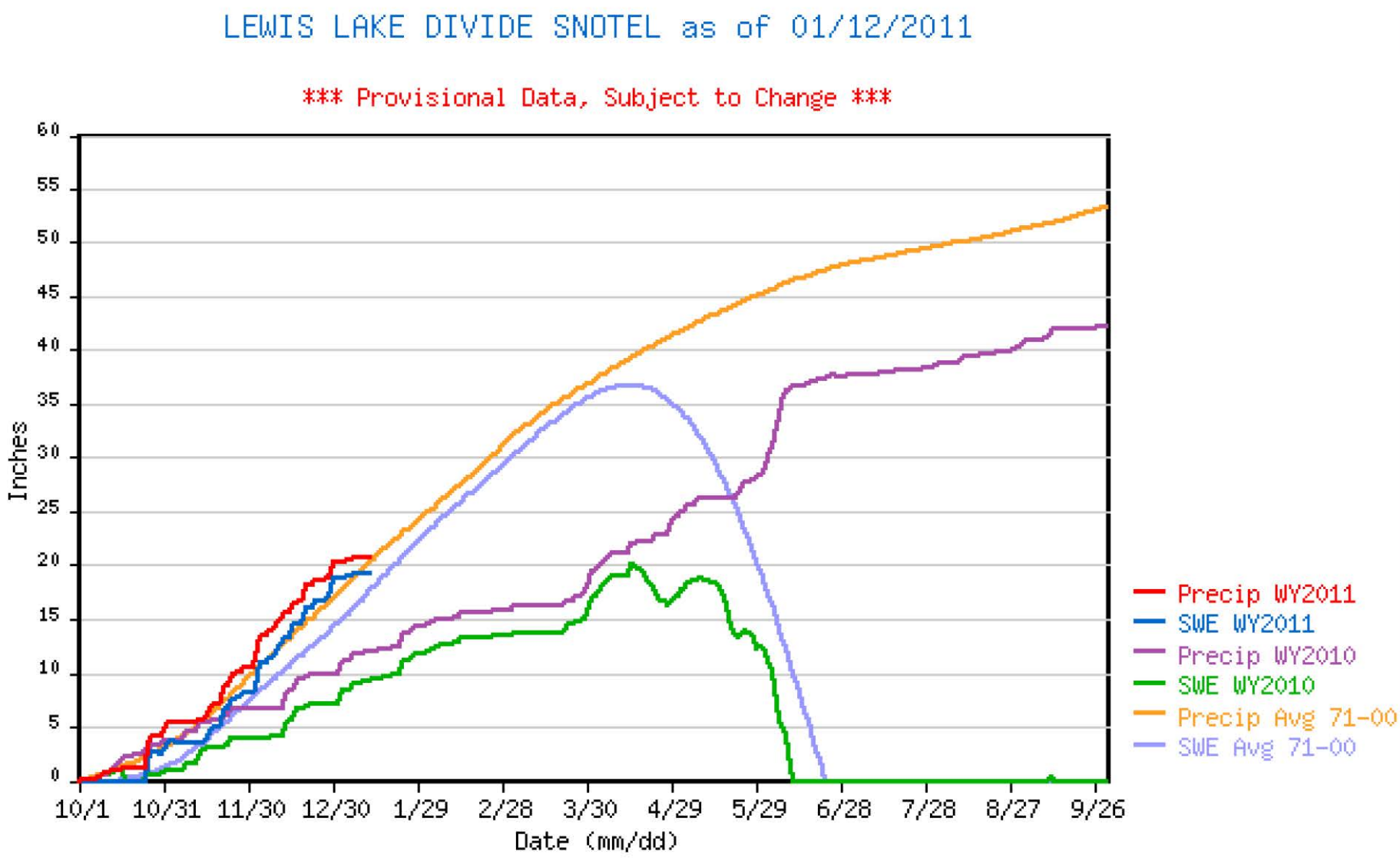

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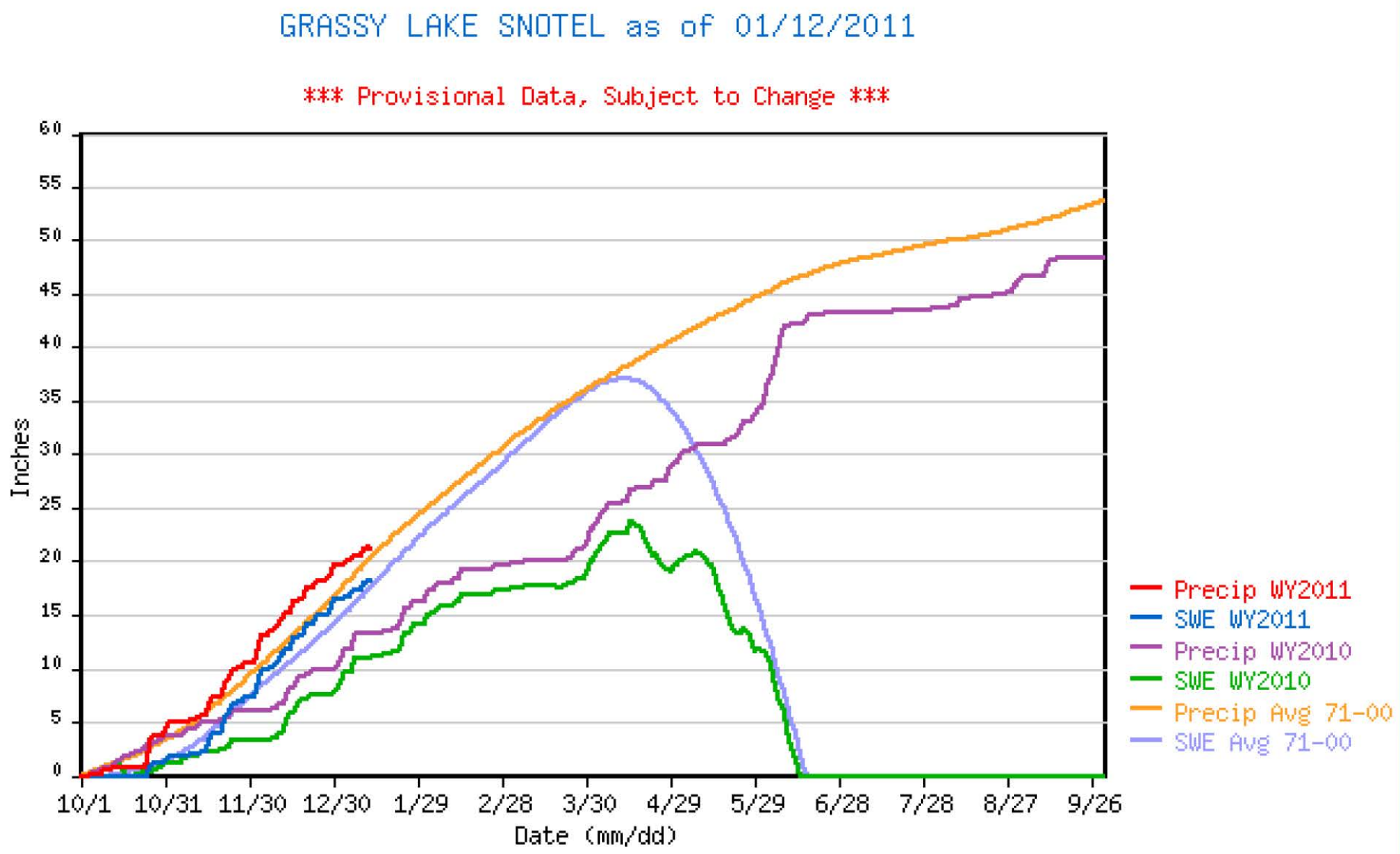

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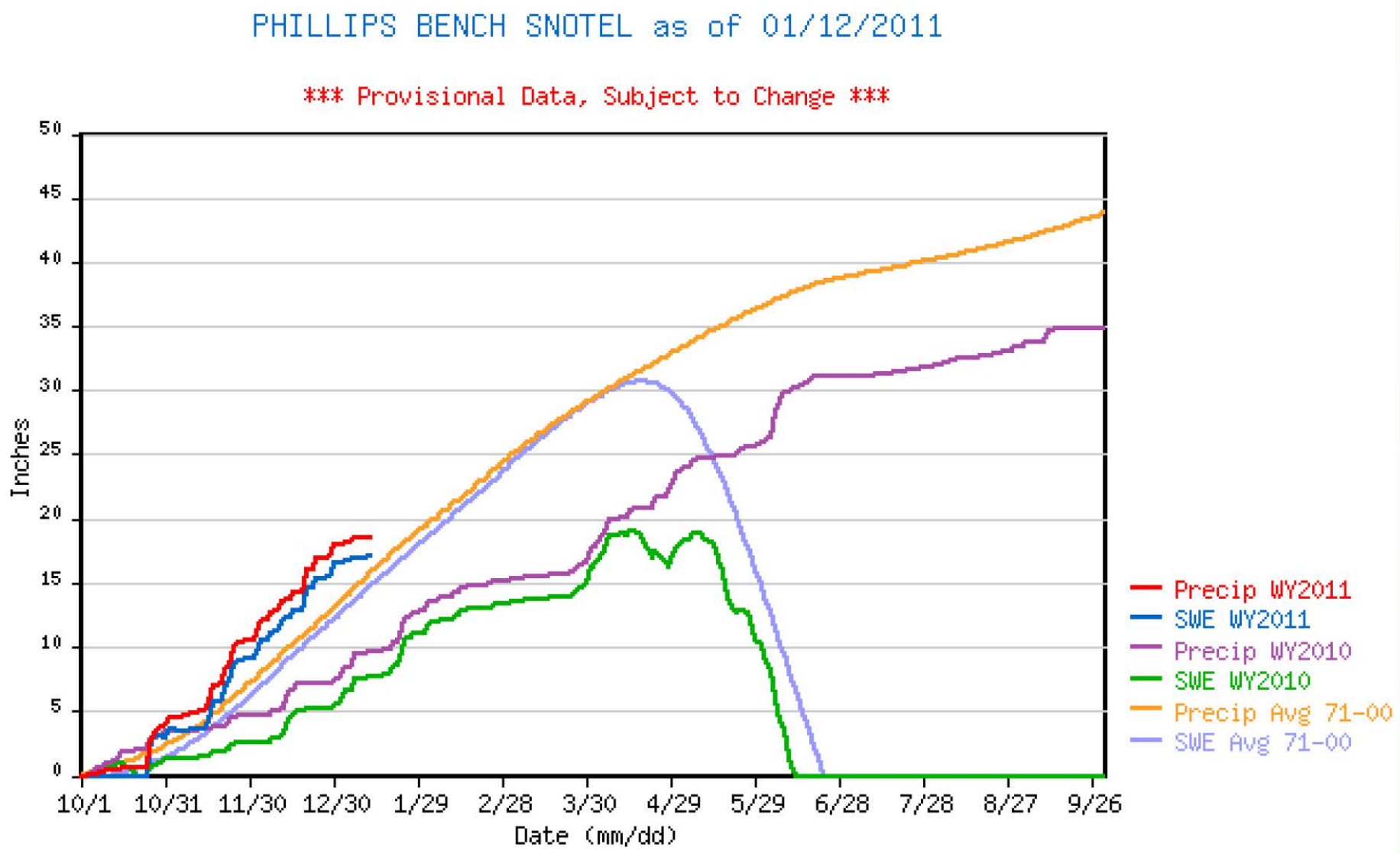

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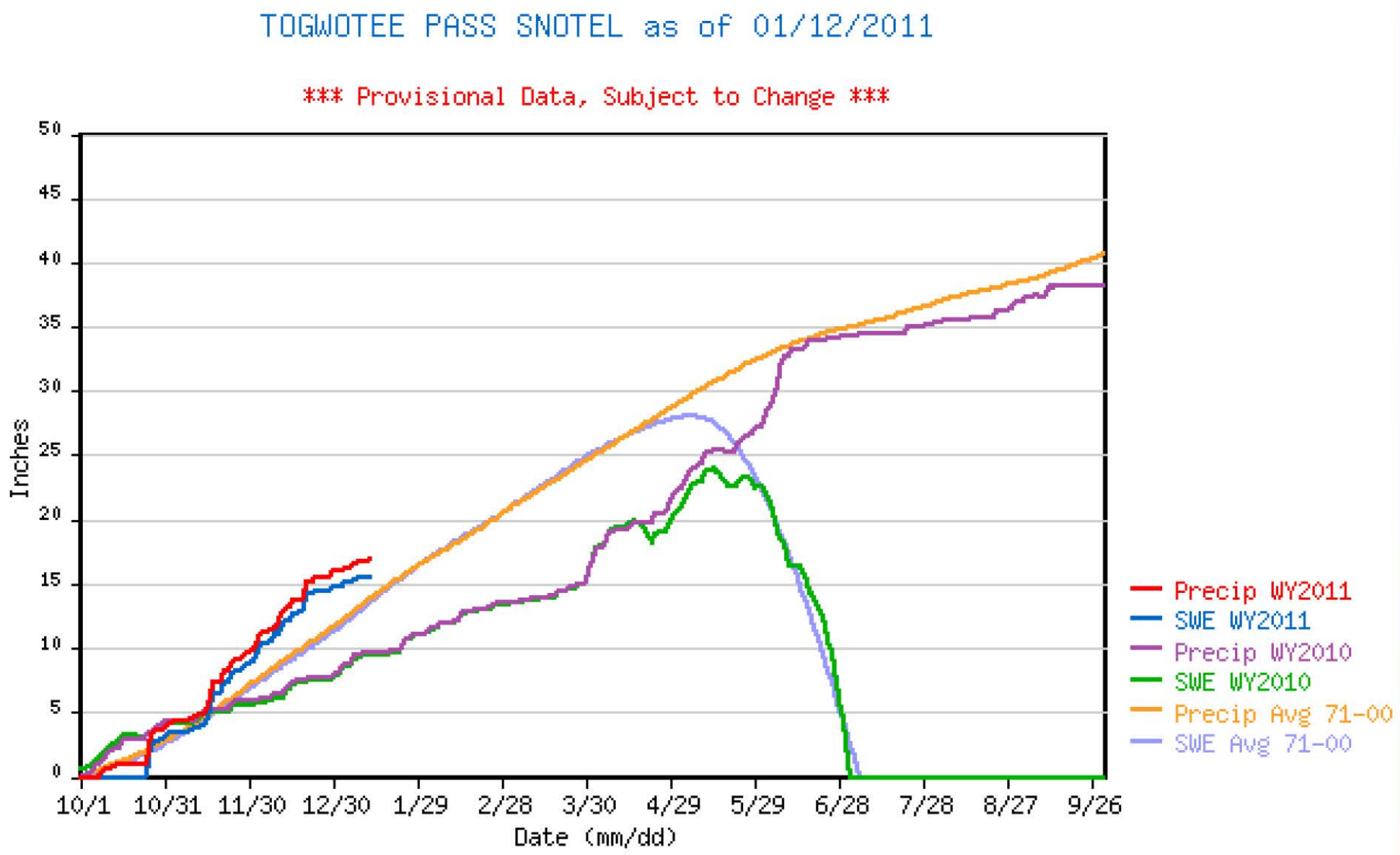

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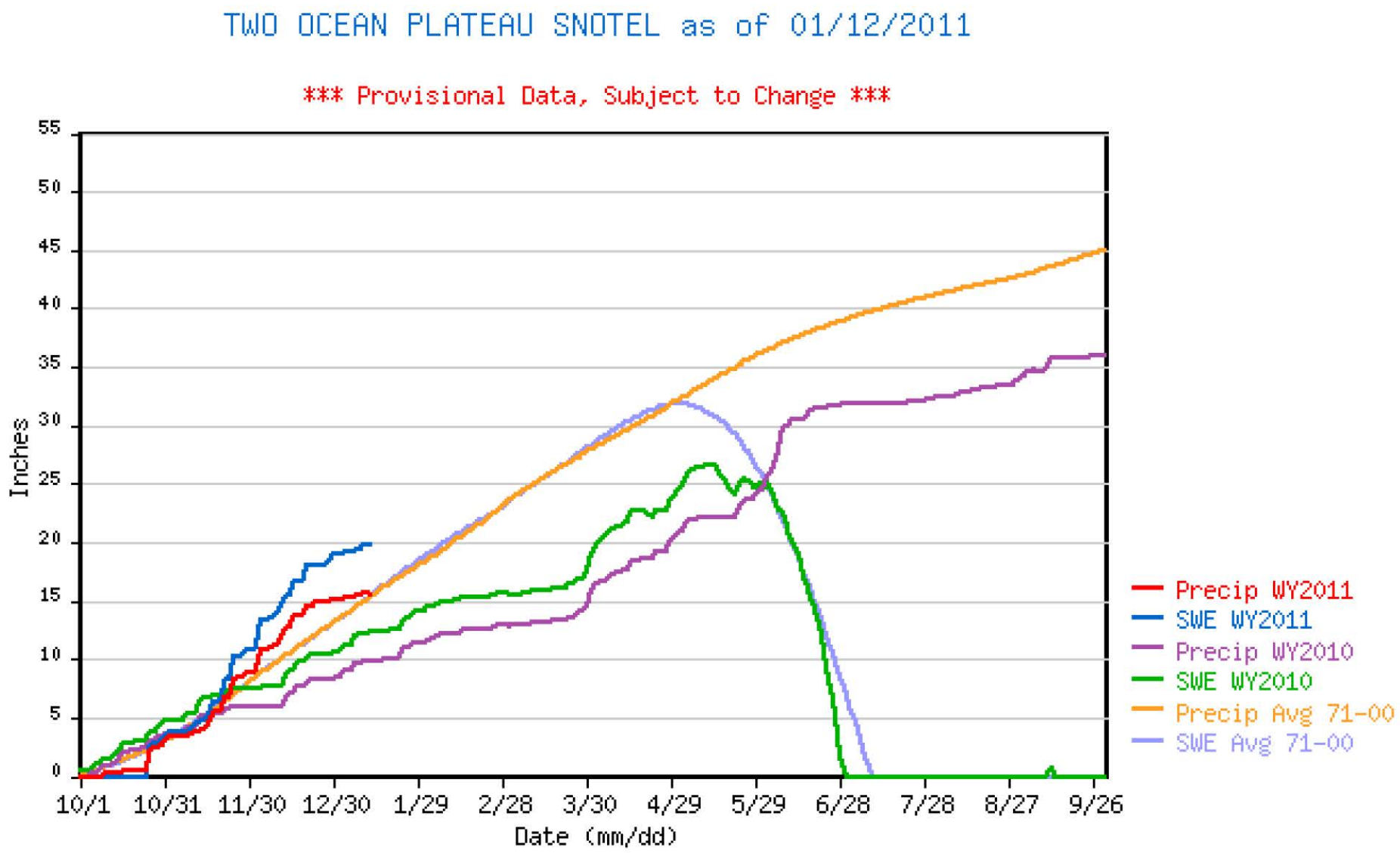

RECLAMATION

UPPER SAKE RIVER WATER SUPPLY FORECAST

(1000 acre-feet)

	CURRENT MONTHLY FORECAST SUMMARY JANUARY 1, 2011						
FORECAST POINT	30 YR. JAN-JULY RUNOFF AVERAGE [1]	NORMAL SUBSEQUENT CONDITIONS	PERCENT NORMAL	120% NORMAL SUSEQUENT CONDITIONS	PERCENT NORMAL	80% NORMAL SUBSEQUENT CONDITIONS	PERCENT NORMAL
HEII	4140.0	4600.0	111				
ISLAND PARK	328.1	268.0	82	316.7	97	219.3	67
JACKSON	914.4	980.6	107	1111.3	122	850.0	93
Little Wood	104.7	122.0	117				
RIRIE_NEW [2]	94.7	120.0	127				
TETON	490.8	502.6	102	569.7	116	436.0	89

[1] Average is based on the 1971-2000 period.

[2] Ririe Forecast is from Jan 1 through June 30.

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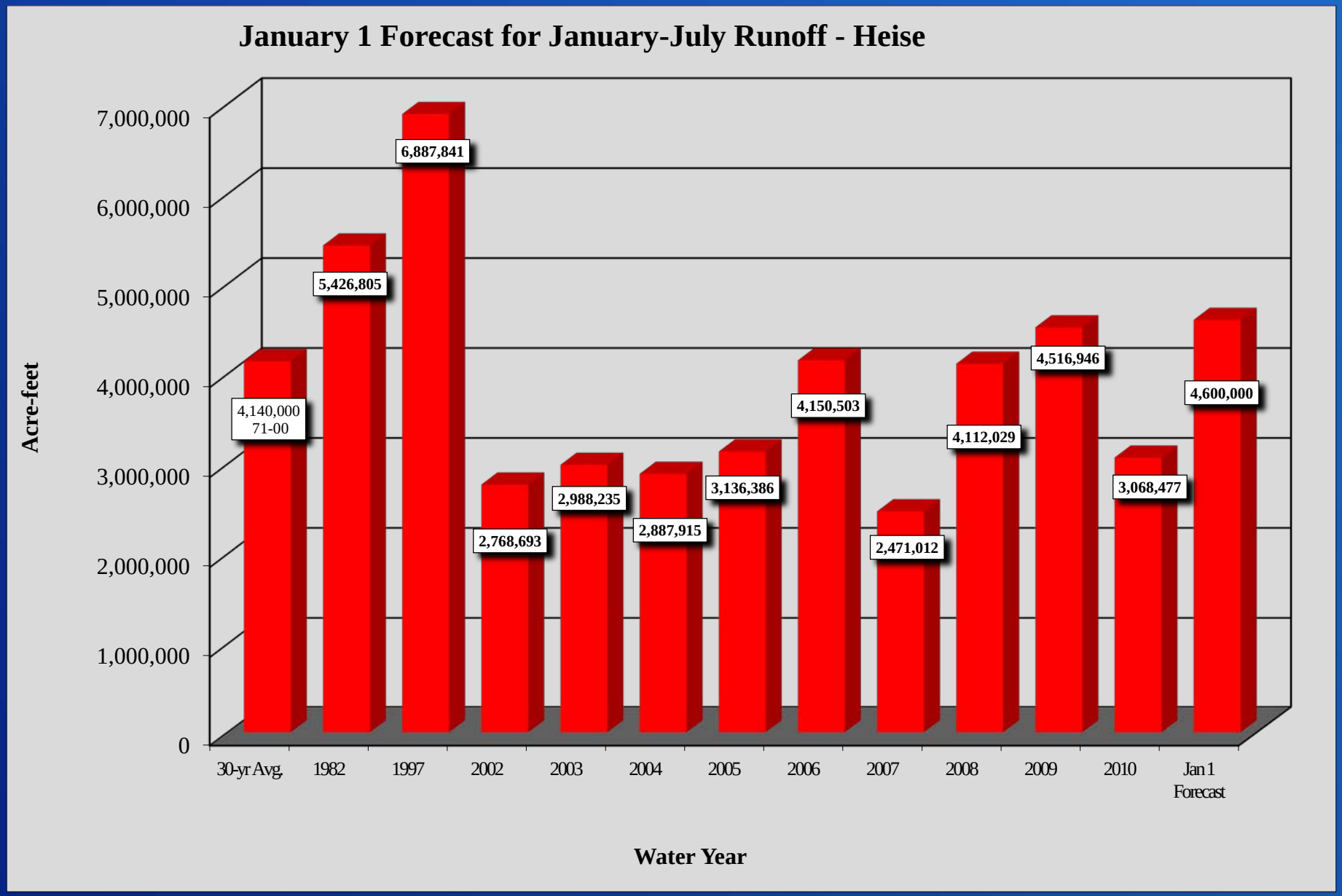

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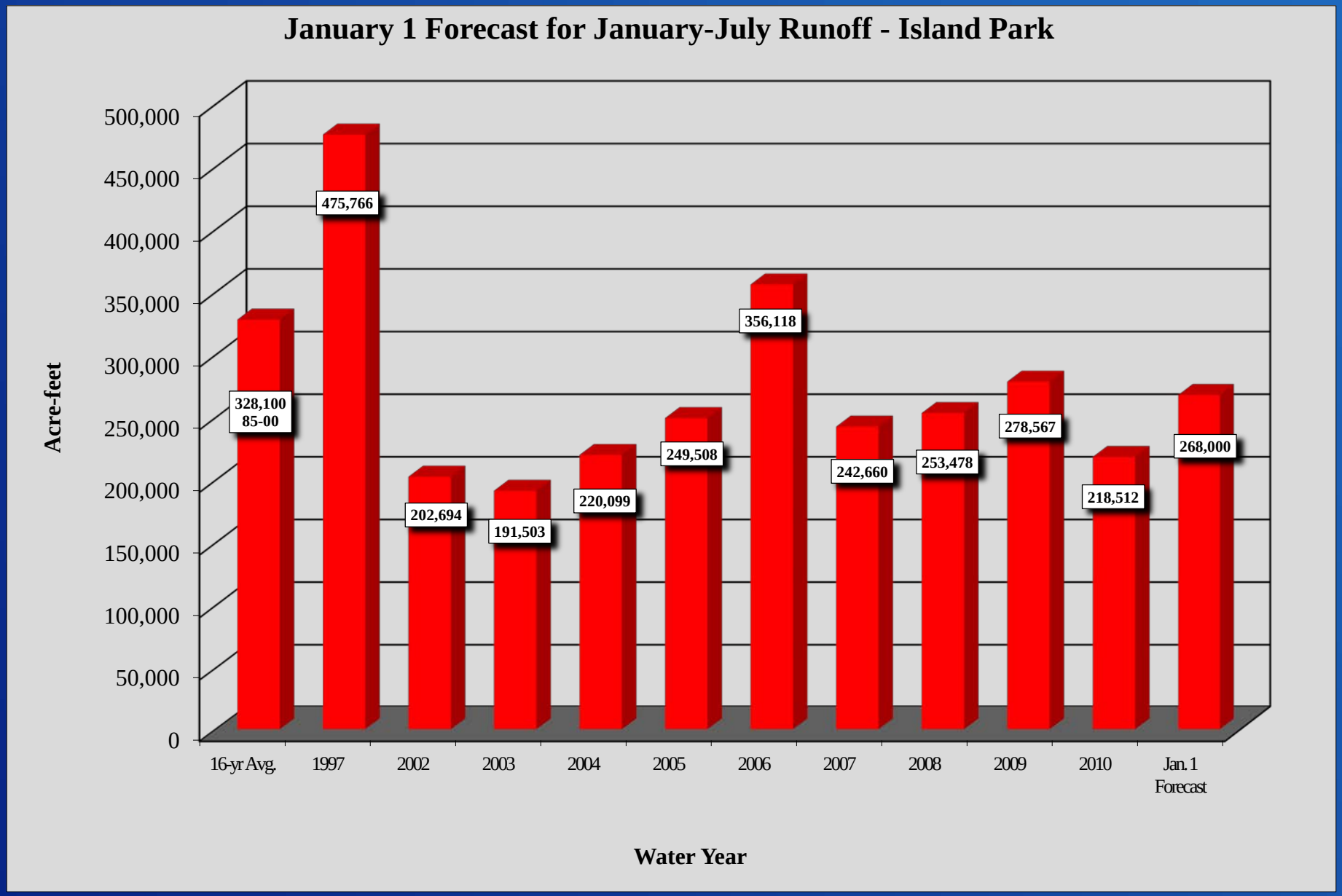

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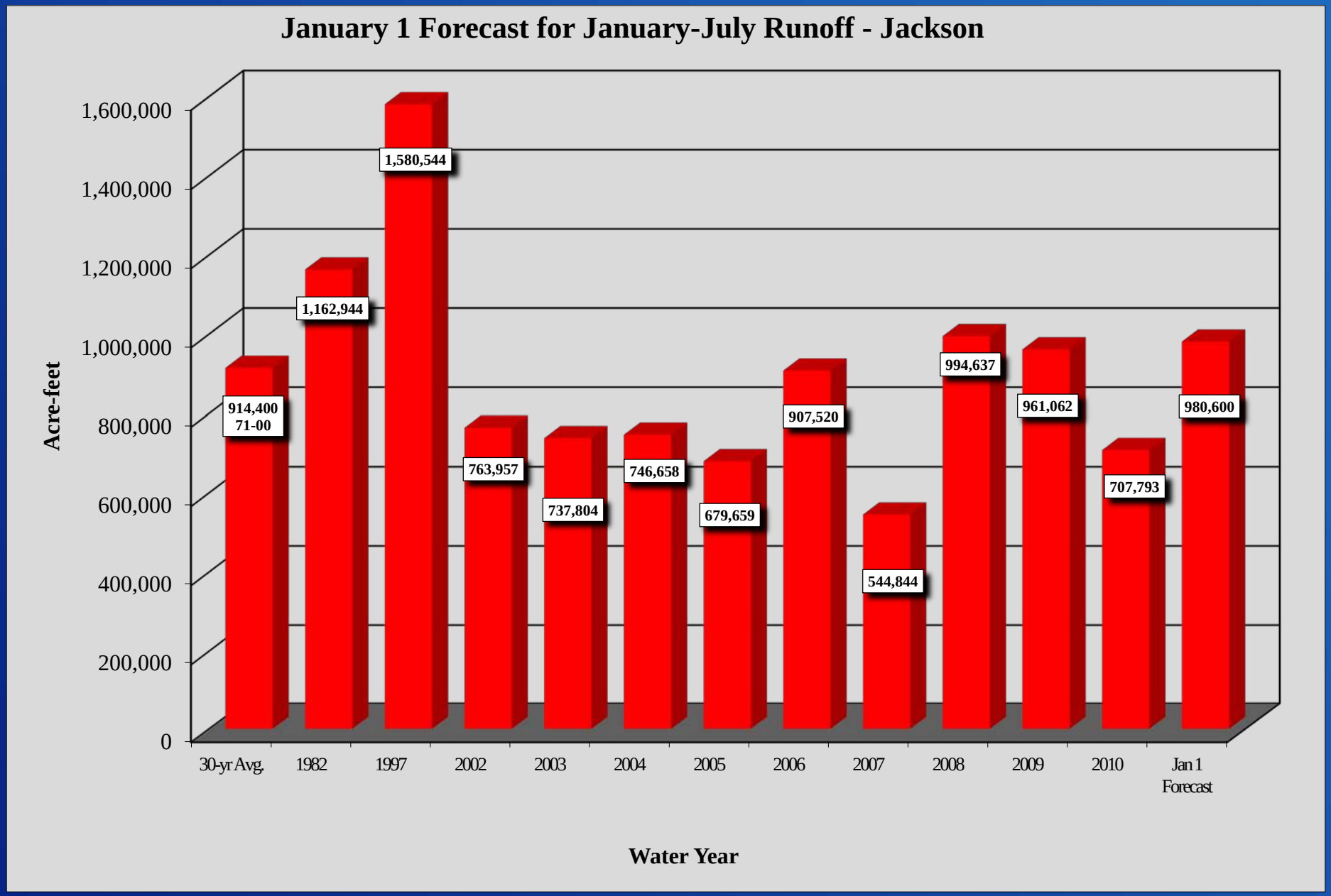

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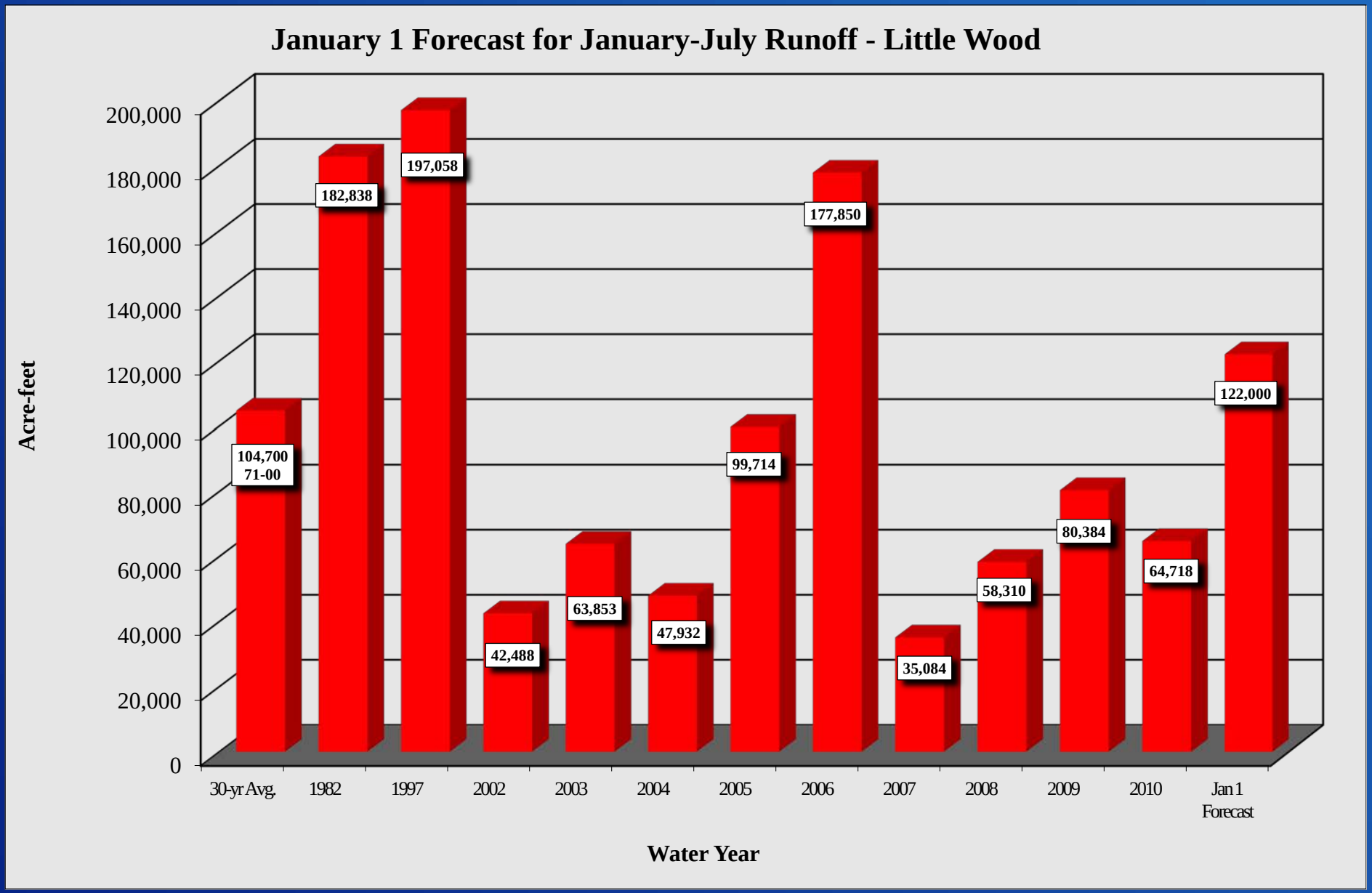

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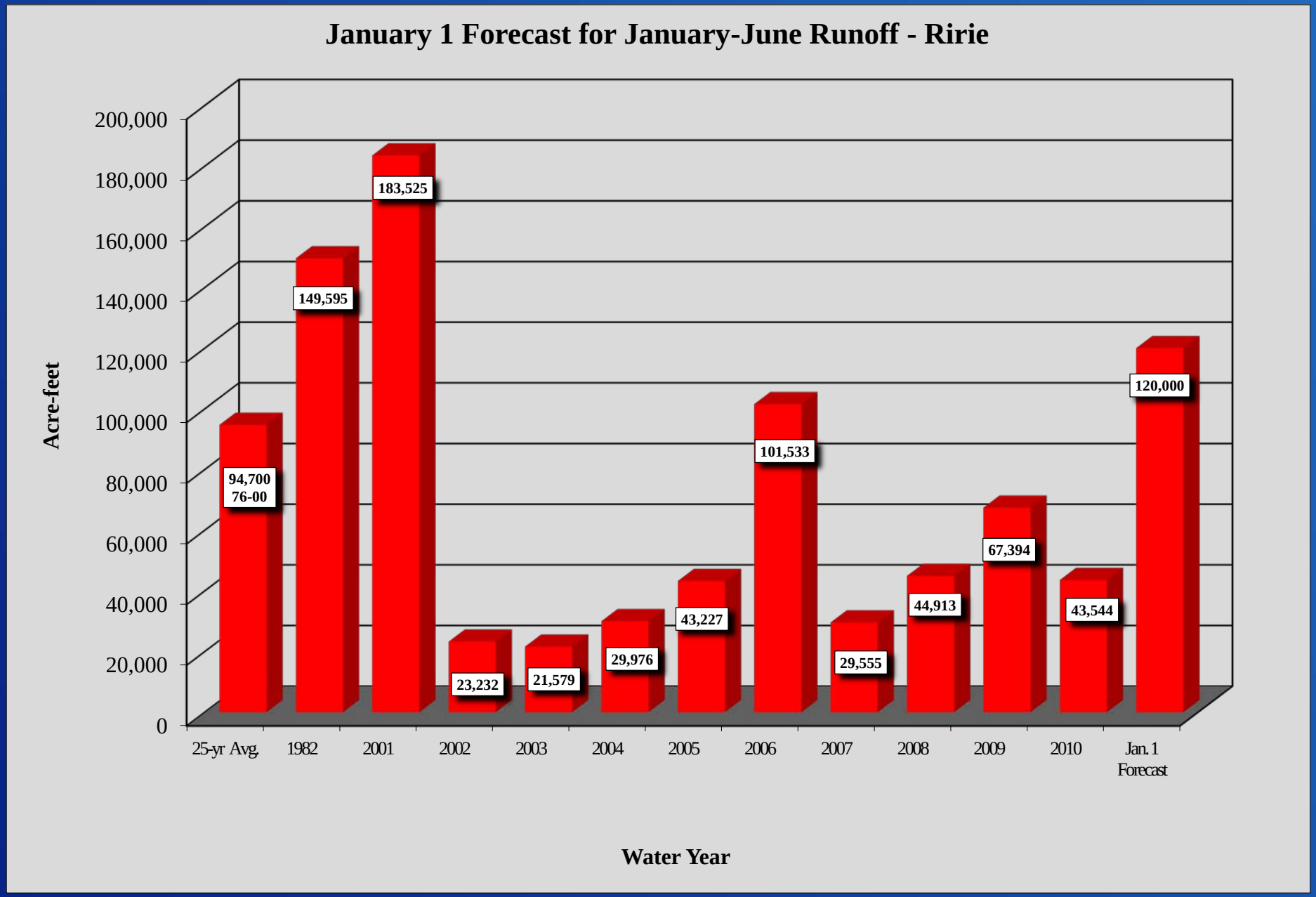

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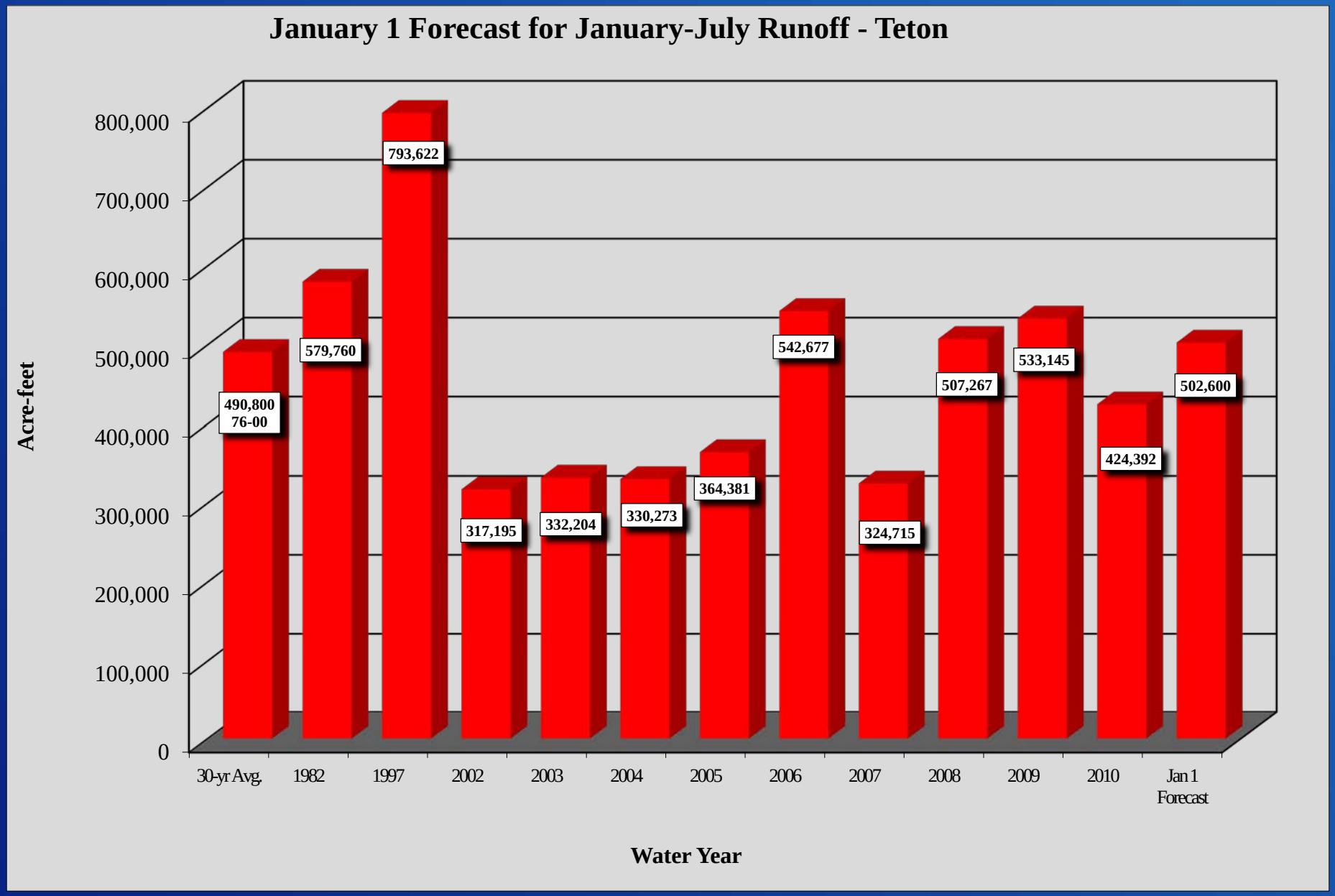

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