RECLAMATION

Managing Water in the West





U.S. Department of the Interior Bureau of Reclamation

Fontenelle Reservoir Current Status

As of 4/20/09

Storage

Live Capacity 345,000 AF

Capacity on 4/20/09 119,000 AF

(34% full)

Pool Elevation

Top of reservoir 6506.0 ft

Elevation on 4/20/09 6470.0 ft

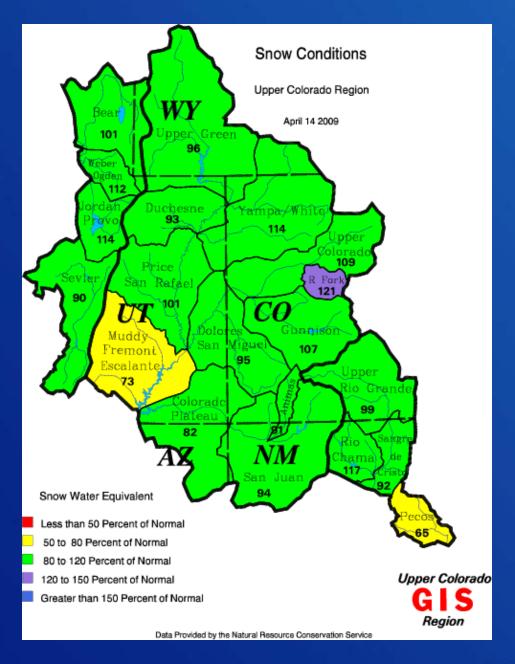
Elevation below top 36.0 ft

Inflow and Release

5 Day Average Inflow 1870 cfs

Current Release on 4/21/09 950 cfs

Expect to ramp up to powerplant capacity (~1200 cfs) within a week

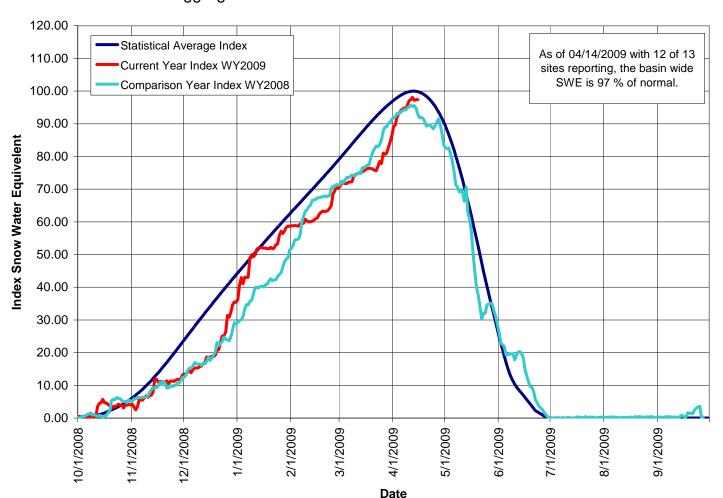


Snow Water Equivalent (SWE) Current Conditions

Current Snowpack



Aggregate of 13 Snotel Sites above Fontenelle Reservoir



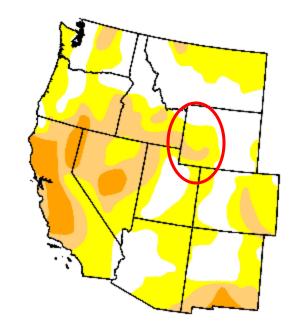
Drought Conditions

U.S. Drought Monitor

April 14, 2009

Drought Conditions (Percent Area)

	Drought Contamona protecting									
	None	D0-D4	D1-D4	D2-D4	D3-D4	D4				
Current	34.7	65.3	25.6	7.1	0.0	0.0				
Last Week (04/07/2009 map)	36.5	63.5	26.3	7.1	0.0	0.0				
3 Months Ago (01/20/2009 map)	43.2	56.8	28.2	9.8	1.7	0.0				
Start of Calendar Year (01/06/2009 map)	37.4	62.6	28.9	8.8	0.4	0.0				
Start of Water Year (10/07/2008 map)	41.3	58.7	28.6	10.4	0.1	0.0				
One Year Ago (04/15/2008 map)	40.5	59.5	35.0	8.4	0.0	0.0				



Intensity:



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

http://drought.unl.edu/dm



Released Thursday, April 16, 2009
Author: Richard Heim, NOAA/NESDIS/NCDC

30 Day Temperature Outlook

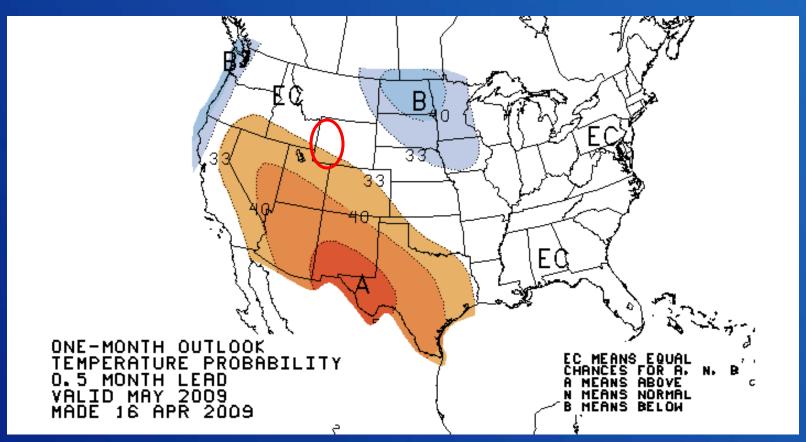


Image courtesy of National Weather Service Climate Prediction Center

30 Day Precipitation Outlook

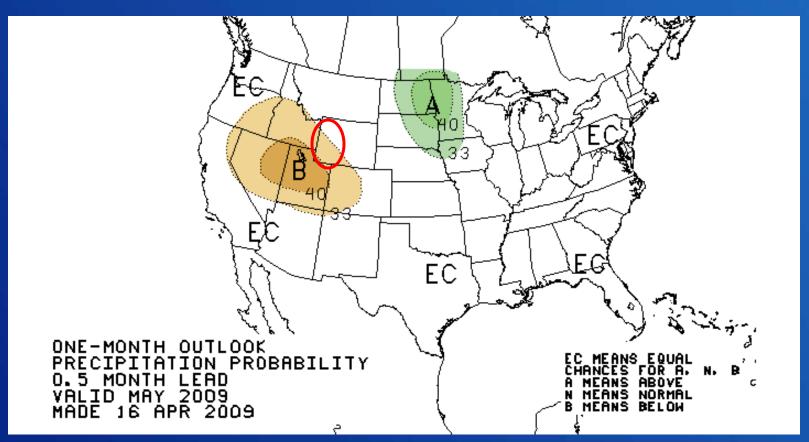
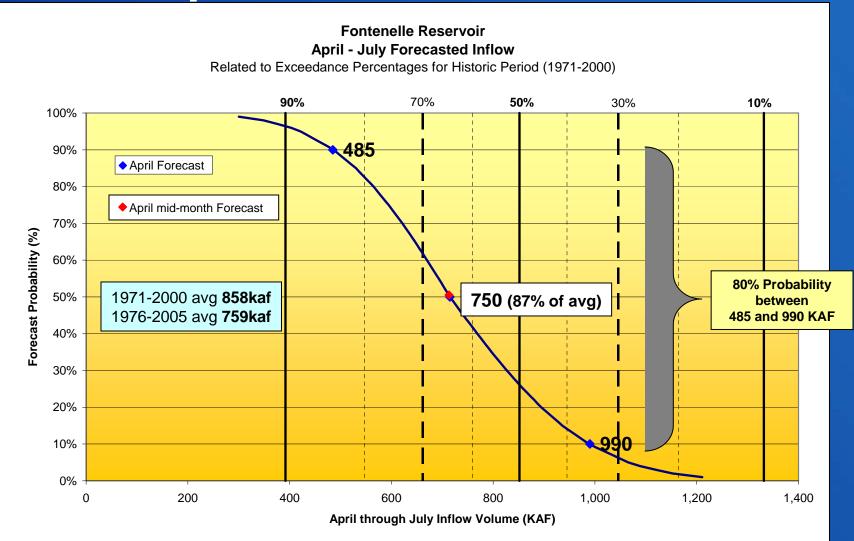
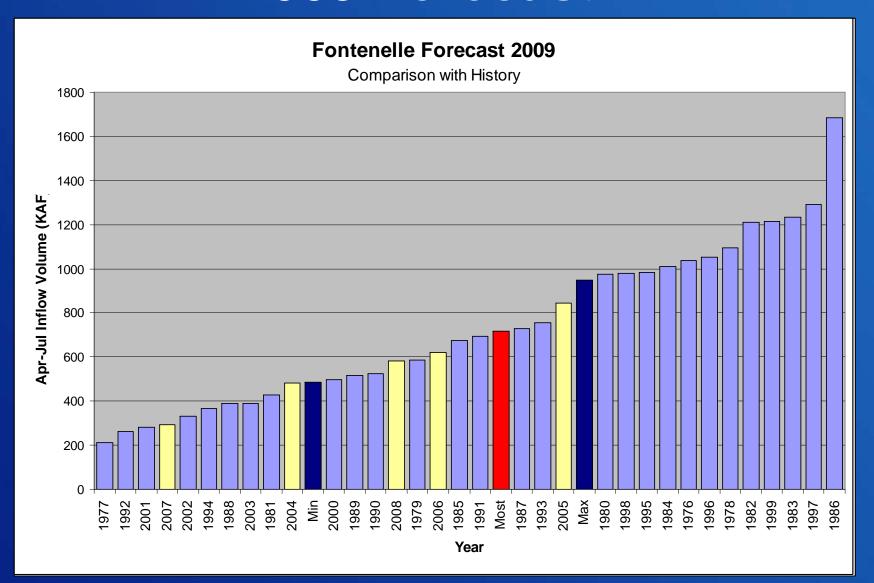


Image courtesy of National Weather Service Climate Prediction Center

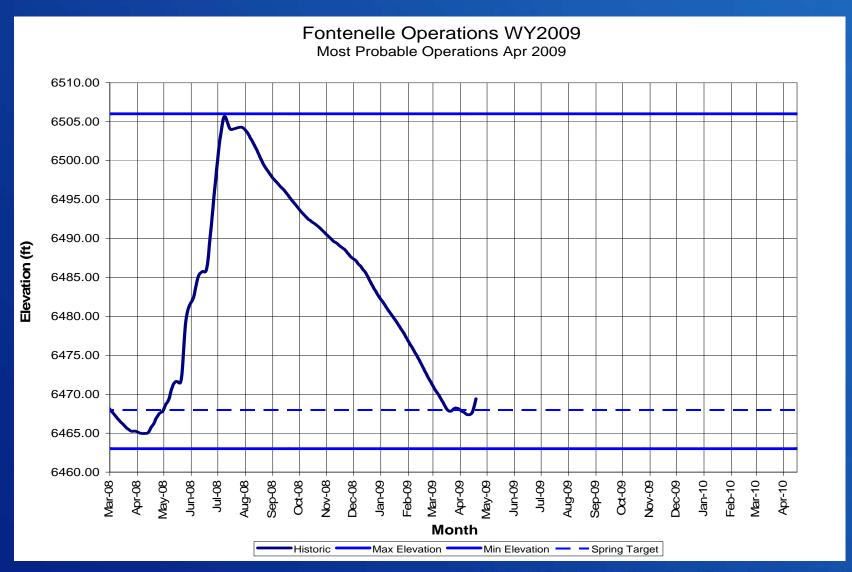
April Official Forecast



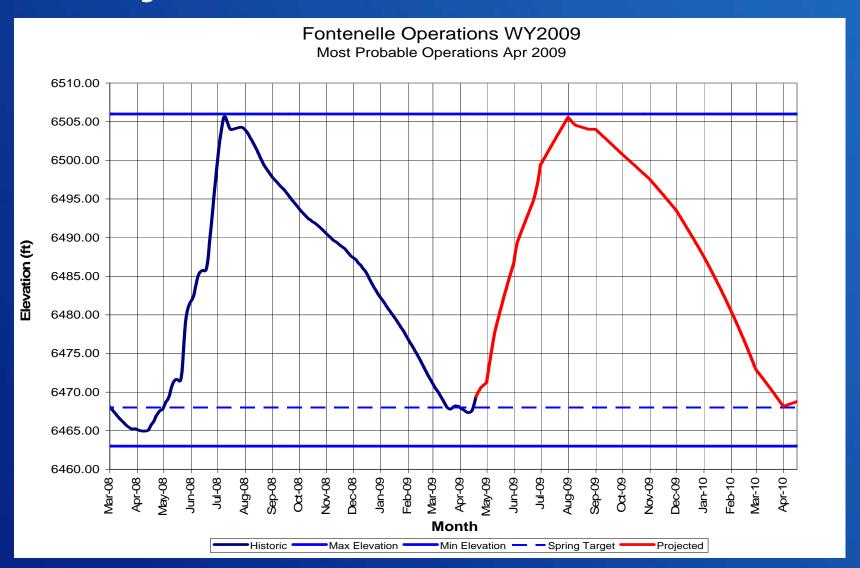
2009 Forecast



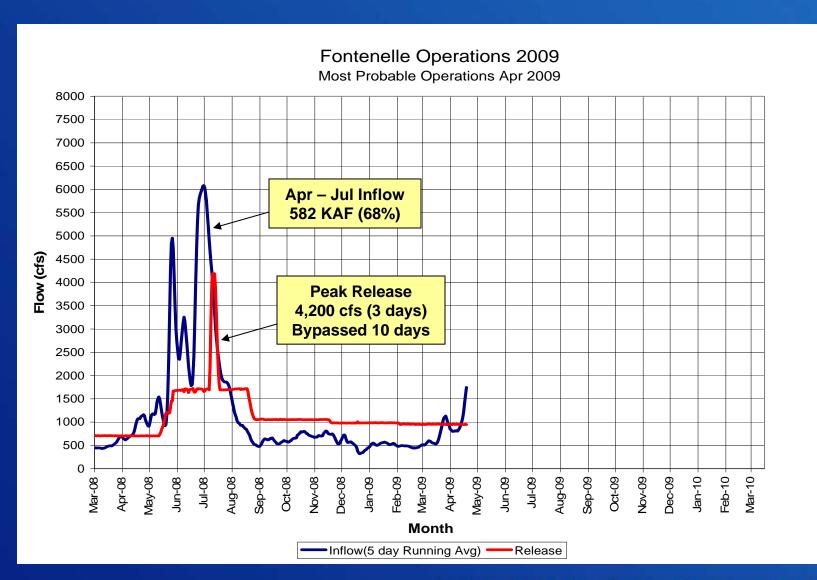
Observed Reservoir Elevation



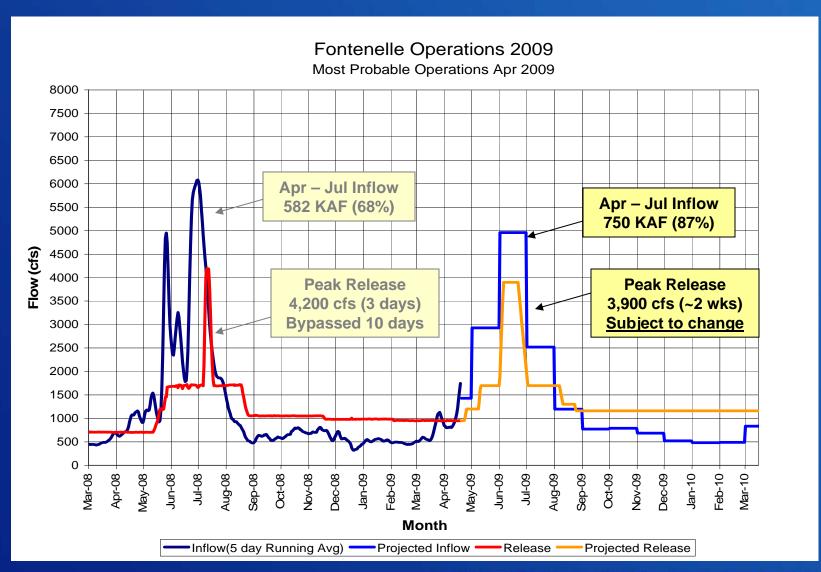
Projected Reservoir Elevation



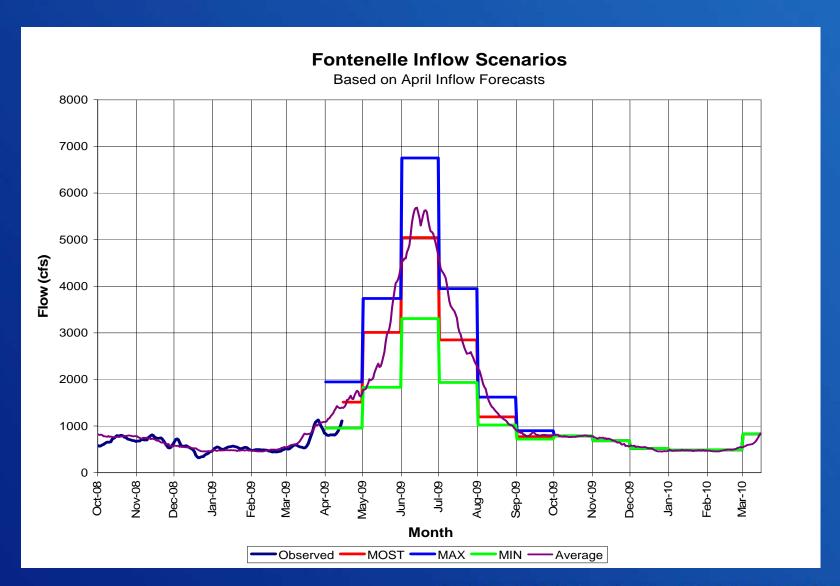
Observed Inflow and Release



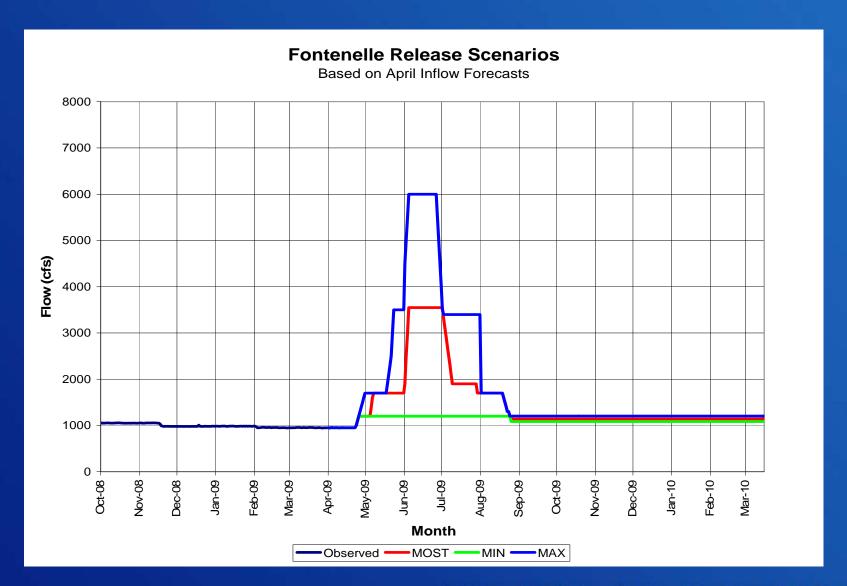
Projected Inflow and Release



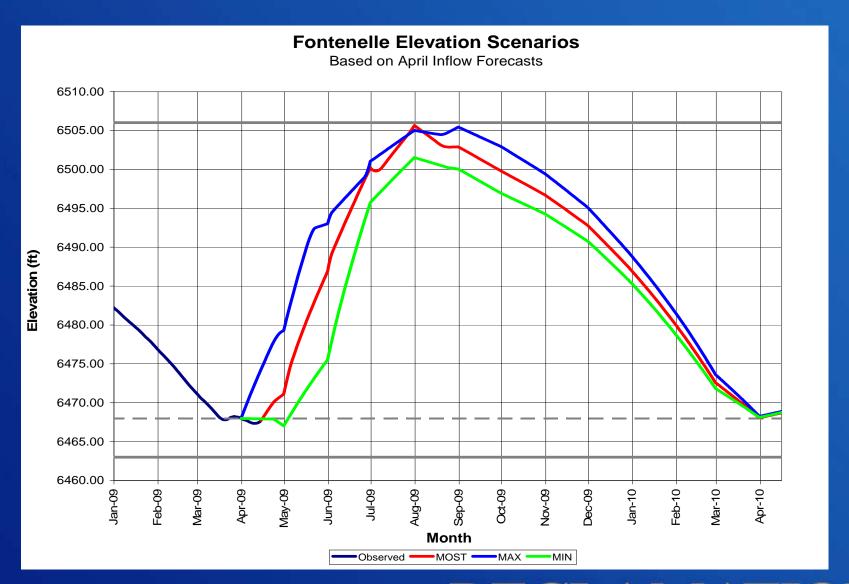
Inflow Scenarios



Release Scenarios



Elevation Scenarios



Fontenelle Working Group Meeting April 2009



Historic Inflow Statistics

Period of Record 1971-2000

ANNUALIZED MONTHLY INFLOW VOLUME(THOUSAND-ACRE-FEET)												
Month	95%	90%	80%	70%	60%	50%	40%	30%	20%	10%	5%	Average
OCT	36	37	39	41	44	47	51	55	61	70	79	51
NOV	33	36	39	41	43	44	45	47	48	50	52	43
DEC	29	30	31	32	33	33	34	35	36	37	38	33
JAN	26	27	29	30	31	32	32	33	34	35	36	31
FEB	24	26	27	28	29	30	30	31	32	32	33	29
MAR	42	43	45	47	49	51	53	55	58	63	67	52
APR	59	64	72	79	85	92	98	106	115	129	141	93
MAY	69	105	143	169	189	207	223	239	257	280	296	196
JUN	98	148	213	261	304	346	388	435	492	573	642	356
JUL	38	75	119	152	181	208	235	265	301	351	393	213
AUG	35	48	63	74	84	92	100	108	118	130	139	92
SEP	29	34	41	46	50	54	58	61	65	70	75	53
WY	518	673	863	1,002	1,121	1,234	1,348	1,471	1,616	1,820	1,991	1,242
APR-JUL	265	392	547	661	759	852	945	1,046	1,165	1,332	1,472	858

Historic Inflow Statistics

Period of Record 1976-2005

ANNUALIZED MONTHLY INFLOW VOLUME(THOUSAND-ACRE-FEET)												
Month	95%	90%	80%	70%	60%	50%	40%	30%	20%	10%	5%	Average
OCT	31	32	35	37	40	44	48	53	59	70	80	49
NOV	30	32	36	38	40	42	43	45	47	50	52	41
DEC	28	29	30	31	31	32	33	34	35	37	39	32
JAN	25	26	27	28	29	30	31	32	33	34	36	30
FEB	23	24	26	27	27	28	29	29	30	31	32	27
MAR	41	43	45	47	49	51	53	55	58	62	66	51
APR	52	57	65	73	79	86	94	102	113	129	143	89
MAY	37	72	112	139	162	182	201	221	244	275	299	176
JUN	81	118	170	212	250	289	330	377	434	521	597	308
JUL	19	51	91	122	150	177	205	236	273	328	375	186
AUG	20	33	49	61	71	81	90	101	113	129	142	83
SEP	24	29	35	40	44	48	52	56	61	69	75	49
WY	409	546	721	855	974	1,089	1,208	1,340	1,501	1,734	1,936	1,120
APR-JUL	188	298	439	546	641	734	830	936	1,065	1,252	1,414	759

Current SWE

