CE-QUAL-W2 Modeling Attachment

Upper San Joaquin River Basin Storage Investigation, California

Prepared by:

United States Department of the Interior
Bureau of Reclamation
Mid-Pacific Region

U.S. Department of the Interior
Bureau of Reclamation

August 2014

Mission Statements

The mission of the Department of the Interior is to protect and provide access to our Nation's natural and cultural heritage and honor our trust responsibilities to Indian Tribes and our commitments to island communities.

The mission of the Bureau of Reclamation is to manage, develop, and protect water and related resources in an environmentally and economically sound manner in the interest of the American public.

Table 1: Monthly Averages of Simulated Friant-Kern Canal Temperature at Friant Dam (Deg F) -All Years

Month	Existing Condition (2005)						Future No Action (2030)					
	Existing Condition Deg. F	Change from Existing Condition					No Action Alt Deg. F	Change from No Action				
		Alt1 Deg. F	Alt2 Deg. F	Alt3 Deg. F	Alt4 Deg. F	Alt5 Deg. F		Alt1 Deg. F	Alt2 Deg. F	Alt3 Deg. F	Alt4 Deg. F	Alt5 Deg. F
Oct	64	-3 (-5%)	-3 (-5%)	-3 (-4%)	-9 (-14%)	-2 (-3%)	64	-3 (-4%)	-3 (-4%)	-3 (-4%)	-9 (-14%)	-2 (-3%)
Nov	59	1 (1%)	1 (1%)	1 (2%)	-2 (-4%)	0 (1%)	60	0 (1%)	0 (1%)	0 (1%)	-3 (-4%)	0 (1%)
Dec	55	1 (2%)	1 (2%)	1 (2%)	-1 (-1%)	0 (1%)	55	1 (3%)	1 (2%)	1 (2%)	0 (-1%)	0 (1%)
Jan	51	3 (6%)	3 (6%)	3 (6%)	1 (3%)	2 (4%)	51	3 (6%)	3 (6%)	3 (6%)	2 (3%)	2 (4%)
Feb	49	4 (8%)	4 (8%)	4 (8%)	3 (6%)	3 (7%)	49	4 (9%)	4 (9%)	4 (9%)	3 (7%)	3 (7%)
Mar	49	4 (8%)	4 (8%)	4 (8%)	3 (6%)	4 (8%)	49	4 (8%)	4 (8%)	4 (8%)	3 (6%)	4 (8%)
Apr	51	2 (3%)	2 (3%)	1 (3%)	1 (2%)	2 (4%)	51	1 (2%)	1 (2%)	1 (2%)	1 (1%)	2 (4%)
May	53	-1 (-3%)	-1 (-3%)	-2 (-3%)	0 (0%)	0 (-1%)	54	-2 (-4%)	-2 (-4%)	-2 (-4%)	0 (0%)	0 (-1%)
Jun	56	-4 (-7%)	-4 (-7%)	-4 (-7%)	0 (-1%)	-1 (-2%)	57	-4 (-7%)	-4 (-7%)	-4 (-7%)	-1 (-1%)	-1 (-2%)
Jul	62	-7 (-11%)	-7 (-11%)	-7 (-11%)	-4 (-6%)	-2 (-4%)	62	-7 (-12%)	-7 (-12%)	-7 (-11%)	-4 (-6%)	-2 (-4%)
Aug	67	-9 (-14%)	-9 (-14%)	-9 (-13%)	-7 (-11%)	-4 (-7%)	67	-9 (-14%)	-9 (-14%)	-9 (-13%)	-7 (-11%)	-4 (-7%)
Sep	67	-7 (-10%)	-7 (-10%)	-6 (-9%)	-11 (-17%)	-4 (-5%)	67	-6 (-9%)	-6 (-9%)	-6 (-9%)	-11 (-17%)	-4 (-5%)

Notes: W2 reservoir temperature simulation

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, Deg F = Degrees Fahrenheit

Table 2: Monthly Averages of Simulated Friant-Kern Canal Temperature at Friant Dam (Deg F)-Wet

Month	Existing Condition (2005)						Future No Action (2030)					
	Existing Condition Deg. F	Change from Existing Condition					No Action Alt Deg. F	Change from No Action				
		Alt1 Deg. F	Alt2 Deg. F	Alt3 Deg. F	Alt4 Deg. F	Alt5 Deg. F		Alt1 Deg. F	Alt2 Deg. F	Alt3 Deg. F	Alt4 Deg. F	Alt5 Deg. F
Oct	64	-2 (-3%)	-2 (-3%)	-2 (-2%)	-9 (-14%)	-1 (-2%)	63	-1 (-2%)	-2 (-2%)	-1 (-2%)	-8 (-13%)	-1 (-2%)
Nov	59	1 (1%)	1 (1%)	1 (2%)	-3 (-4%)	0 (0%)	59	1 (2%)	1 (2%)	1 (2%)	-2 (-4%)	0 (0%)
Dec	55	1 (3%)	1 (3%)	1 (3%)	0 (-1%)	0 (1%)	55	1 (3%)	1 (3%)	1 (3%)	0 (-1%)	0 (1%)
Jan	50	4 (7%)	4 (7%)	4 (7%)	2 (4%)	3 (5%)	50	4 (8%)	4 (8%)	4 (8%)	2 (5%)	3 (5%)
Feb	48	5 (10%)	5 (10%)	5 (10%)	4 (8%)	3 (7%)	48	5 (10%)	5 (10%)	5 (10%)	4 (8%)	3 (7%)
Mar	48	4 (9%)	4 (9%)	4 (9%)	3 (7%)	3 (6%)	48	4 (9%)	4 (9%)	4 (9%)	4 (8%)	3 (6%)
Apr	50	1 (2%)	1 (2%)	1 (2%)	1 (1%)	0 (1%)	50	1 (1%)	1 (1%)	1 (1%)	0 (0%)	0 (1%)
May	53	-3 (-5%)	-3 (-5%)	-3 (-5%)	-1 (-1%)	-3 (-5%)	53	-3 (-6%)	-3 (-6%)	-3 (-6%)	0 (-1%)	-3 (-5%)
Jun	54	-3 (-5%)	-3 (-5%)	-3 (-5%)	1 (1%)	-2 (-5%)	55	-3 (-6%)	-3 (-6%)	-3 (-5%)	0 (1%)	-2 (-5%)
Jul	58	-3 (-5%)	-3 (-6%)	-3 (-6%)	0 (0%)	-3 (-6%)	58	-3 (-6%)	-3 (-6%)	-3 (-6%)	-1 (-1%)	-3 (-6%)
Aug	63	-7 (-12%)	-7 (-12%)	-7 (-11%)	-4 (-6%)	-6 (-10%)	63	-7 (-11%)	-7 (-11%)	-7 (-11%)	-4 (-6%)	-6 (-10%)
Sep	65	-9 (-14%)	-9 (-14%)	-8 (-13%)	-11 (-18%)	-8 (-12%)	65	-9 (-13%)	-9 (-13%)	-8 (-13%)	-11 (-17%)	0 (0%)

Notes: W2 reservoir temperature simulation

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, Deg F = Degrees Fahrenheit

Table 3: Monthly Averages of Simulated Friant-Kern Canal Temperature at Friant Dam (Deg F)-Normal-Wet

Month	Existing Condition (2005)						Future No Action (2030)					
	Existing Condition Deg. F	Change from Existing Condition					No Action Alt Deg. F	Change from No Action				
		Alt1 Deg. F	Alt2 Deg. F	Alt3 Deg. F	Alt4 Deg. F	Alt5 Deg. F		Alt1 Deg. F	Alt2 Deg. F	Alt3 Deg. F	Alt4 Deg. F	Alt5 Deg. F
Oct	65	-2 (-4%)	-3 (-4%)	-2 (-3%)	-9 (-13%)	-1 (-2%)	65	-2 (-3%)	-2 (-3%)	-2 (-3%)	-8 (-13%)	-1 (-2%)
Nov	57	3 (6%)	3 (6%)	4 (7%)	1 (2%)	3 (5%)	60	1 (2%)	1 (2%)	1 (2%)	-2 (-3%)	3 (5%)
Dec	55	2 (3%)	2 (3%)	2 (4%)	0 (0%)	1 (1%)	55	2 (4%)	2 (4%)	2 (4%)	0 (0%)	1 (1%)
Jan	51	3 (5%)	3 (5%)	3 (6%)	1 (3%)	2 (3%)	51	3 (5%)	3 (5%)	3 (5%)	1 (3%)	2 (3%)
Feb	50	3 (6%)	3 (6%)	3 (6%)	2 (4%)	3 (5%)	49	4 (7%)	4 (7%)	4 (7%)	3 (5%)	3 (5%)
Mar	50	3 (6%)	3 (6%)	3 (6%)	2 (4%)	3 (7%)	50	3 (6%)	3 (6%)	3 (6%)	2 (4%)	3 (7%)
Apr	52	2 (3%)	2 (3%)	2 (3%)	1 (2%)	2 (5%)	52	1 (2%)	1 (2%)	1 (2%)	1 (1%)	2 (5%)
May	54	-1 (-1%)	-1 (-1%)	-1 (-2%)	1 (1%)	1 (1%)	54	-1 (-2%)	-1 (-2%)	-1 (-2%)	0 (0%)	1 (1%)
Jun	58	-4 (-7%)	-4 (-7%)	-4 (-7%)	0 (-1%)	0 (0%)	58	-4 (-8%)	-4 (-8%)	-4 (-8%)	-1 (-2%)	0 (0%)
Jul	65	-9 (-14%)	-9 (-14%)	-9 (-13%)	-5 (-8%)	-2 (-3%)	65	-9 (-14%)	-9 (-14%)	-9 (-14%)	-5 (-8%)	-2 (-3%)
Aug	70	-10 (-14%)	-10 (-14%)	-9 (-13%)	-10 (-14%)	-2 (-3%)	70	-9 (-14%)	-10 (-14%)	-9 (-13%)	-10 (-14%)	-2 (-3%)
Sep	68	-4 (-6%)	-4 (-6%)	-4 (-5%)	-11 (-16%)	1 (1%)	68	-4 (-5%)	-4 (-5%)	-3 (-5%)	-11 (-16%)	1 (1%)

Notes: W2 reservoir temperature simulation

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, Deg F = Degrees Fahrenheit

Table 4: Monthly Averages of Simulated Friant-Kern Canal Temperature at Friant Dam (Deg F)-Normal-Dry

Month	Existing Condition (2005)						Future No Action (2030)					
	Existing Condition Deg. F	Change from Existing Condition					No Action Alt Deg. F	Change from No Action				
		Alt1 Deg. F	Alt2 Deg. F	Alt3 Deg. F	Alt4 Deg. F	Alt5 Deg. F		Alt1 Deg. F	Alt2 Deg. F	Alt3 Deg. F	Alt4 Deg. F	Alt5 Deg. F
Oct	65	-2 (-4%)	-3 (-4%)	-2 (-3%)	-9 (-13%)	-1 (-2%)	65	-2 (-3%)	-2 (-3%)	-2 (-3%)	-8 (-13%)	-1 (-2%)
Nov	57	3 (6%)	3 (6%)	4 (7%)	1 (2%)	3 (5%)	60	1 (2%)	1 (2%)	1 (2%)	-2 (-3%)	3 (5%)
Dec	55	2 (3%)	2 (3%)	2 (4%)	0 (0%)	1 (1%)	55	2 (4%)	2 (4%)	2 (4%)	0 (0%)	1 (1%)
Jan	51	3 (5%)	3 (5%)	3 (6%)	1 (3%)	2 (3%)	51	3 (5%)	3 (5%)	3 (5%)	1 (3%)	2 (3%)
Feb	50	3 (6%)	3 (6%)	3 (6%)	2 (4%)	3 (5%)	49	4 (7%)	4 (7%)	4 (7%)	3 (5%)	3 (5%)
Mar	50	3 (6%)	3 (6%)	3 (6%)	2 (4%)	3 (7%)	50	3 (6%)	3 (6%)	3 (6%)	2 (4%)	3 (7%)
Apr	52	2 (3%)	2 (3%)	2 (3%)	1 (2%)	2 (5%)	52	1 (2%)	1 (2%)	1 (2%)	1 (1%)	2 (5%)
May	54	-1 (-1%)	-1 (-1%)	-1 (-2%)	1 (1%)	1 (1%)	54	-1 (-2%)	-1 (-2%)	-1 (-2%)	0 (0%)	1 (1%)
Jun	58	-4 (-7%)	-4 (-7%)	-4 (-7%)	0 (-1%)	0 (0%)	58	-4 (-8%)	-4 (-8%)	-4 (-8%)	-1 (-2%)	0 (0%)
Jul	65	-9 (-14%)	-9 (-14%)	-9 (-13%)	-5 (-8%)	-2 (-3%)	65	-9 (-14%)	-9 (-14%)	-9 (-14%)	-5 (-8%)	-2 (-3%)
Aug	70	-10 (-14%)	-10 (-14%)	-9 (-13%)	-10 (-14%)	-2 (-3%)	70	-9 (-14%)	-10 (-14%)	-9 (-13%)	-10 (-14%)	-2 (-3%)
Sep	68	-4 (-6%)	-4 (-6%)	-4 (-5%)	-11 (-16%)	1 (1%)	68	-4 (-5%)	-4 (-5%)	-3 (-5%)	-11 (-16%)	1 (1%)

Notes: W2 reservoir temperature simulation

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, Deg F = Degrees Fahrenheit

Table 5: Monthly Averages of Simulated Friant-Kern Canal Temperature at Friant Dam (Deg F)-Dry

Month	Existing Condition (2005)						Existing Condition (2005)					
	Existing Condition Deg. F	Change from Existing Condition						Future No Action (2030)				
		Alt1 Deg. F	Alt2 Deg. F	Alt3 Deg. F	Alt4 Deg. F		No Action Alt (cfs)	Alt1 Deg. F	Alt2 Deg. F	Alt3 Deg. F	Alt4 Deg. F	
Oct	65	-3 (-5%)	-3 (-5%)	-2 (-4%)	-9 (-14%)	0 (-1%)	65	-2 (-4%)	-2 (-4%)	-2 (-4%)	-8 (-12%)	0 (-1%)
Nov	60	0 (1%)	0 (1%)	1 (1%)	-3 (-5%)	0 (0%)	60	1 (2%)	1 (2%)	1 (2%)	-2 (-3%)	0 (0%)
Dec	55	1 (3%)	1 (3%)	2 (3%)	0 (0%)	1 (1%)	55	2 (3%)	2 (3%)	2 (3%)	0 (1%)	1 (1%)
Jan	51	3 (5%)	3 (5%)	3 (5%)	1 (2%)	1 (2%)	50	3 (6%)	3 (6%)	3 (6%)	2 (3%)	1 (2%)
Feb	49	3 (6%)	3 (6%)	3 (6%)	2 (4%)	2 (4%)	49	3 (6%)	3 (6%)	3 (6%)	2 (4%)	2 (4%)
Mar	49	3 (6%)	3 (6%)	3 (6%)	2 (5%)	4 (9%)	50	3 (6%)	3 (6%)	3 (6%)	2 (4%)	4 (9%)
Apr	50	2 (4%)	2 (4%)	2 (4%)	1 (2%)	4 (7%)	51	2 (3%)	2 (3%)	2 (3%)	1 (2%)	4 (7%)
May	52	-1 (-1%)	-1 (-1%)	-1 (-1%)	0 (0%)	2 (3%)	53	-1 (-2%)	-1 (-2%)	-1 (-2%)	0 (-1%)	2 (3%)
Jun	57	-5 (-10%)	-5 (-10%)	-5 (-10%)	-2 (-4%)	2 (3%)	58	-6 (-11%)	-6 (-11%)	-6 (-11%)	-3 (-5%)	2 (3%)
Jul	65	-11 (-17%)	-11 (-17%)	-11 (-16%)	-8 (-12%)	1 (2%)	66	-11 (-17%)	-11 (-17%)	-11 (-17%)	-8 (-12%)	1 (2%)
Aug	70	-11 (-16%)	-11 (-16%)	-11 (-15%)	-11 (-16%)	-1 (-1%)	70	-11 (-15%)	-11 (-15%)	-11 (-15%)	-11 (-15%)	-1 (-1%)
Sep	68	-5 (-7%)	-5 (-7%)	-5 (-7%)	-11 (-16%)	1 (1%)	68	-5 (-7%)	-5 (-7%)	-5 (-7%)	-10 (-15%)	1 (1%)

Notes: W2 reservoir temperature simulation

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, Deg F = Degrees Fahrenheit

Table 6: Monthly Averages of Simulated Madera Canal Temperature at Friant Dam (Deg F) -All Years

Month	Existing Condition (2005)						Future No Action (2030)					
	Existing Condition Deg. F	Change from Existing Condition					No Action Alt Deg. F	Change from No Action				
		Alt1 Deg. F	Alt2 Deg. F	Alt3 Deg. F	Alt4 Deg. F	Alt5 Deg. F		Alt1 Deg. F	Alt2 Deg. F	Alt3 Deg. F	Alt4 Deg. F	Alt5 Deg. F
Oct	54	-1 (-3%)	-1 (-3%)	-2 (-4%)	-8 (-14%)	0 (-1%)	54	-2 (-3%)	-2 (-3%)	-2 (-3%)	-7 (-13%)	0 (-1%)
Nov	45	2 (5%)	1 (3%)	0 (0%)	-2 (-4%)	2 (4%)	44	1 (3%)	1 (2%)	1 (3%)	-1 (-3%)	2 (4%)
Dec	41	3 (7%)	2 (6%)	1 (3%)	1 (2%)	1 (3%)	40	2 (6%)	2 (6%)	2 (6%)	1 (2%)	1 (3%)
Jan	40	2 (4%)	2 (4%)	1 (2%)	0 (0%)	-1 (-3%)	39	2 (4%)	2 (4%)	2 (4%)	0 (0%)	-1 (-3%)
Feb	41	2 (4%)	2 (4%)	1 (2%)	1 (2%)	-1 (-1%)	40	1 (4%)	1 (4%)	1 (4%)	1 (1%)	-1 (-1%)
Mar	40	3 (8%)	3 (8%)	2 (4%)	2 (6%)	2 (6%)	39	2 (5%)	2 (5%)	2 (5%)	2 (4%)	2 (6%)
Apr	45	3 (7%)	3 (7%)	2 (5%)	2 (5%)	3 (6%)	45	2 (5%)	2 (5%)	2 (5%)	2 (5%)	3 (6%)
May	52	-1 (-2%)	-1 (-3%)	-1 (-3%)	0 (0%)	0 (0%)	52	-2 (-3%)	-2 (-3%)	-2 (-3%)	0 (0%)	0 (0%)
Jun	55	-3 (-5%)	-3 (-5%)	-3 (-5%)	0 (1%)	-1 (-1%)	55	-3 (-6%)	-3 (-6%)	-3 (-6%)	0 (0%)	-1 (-1%)
Jul	59	-5 (-9%)	-5 (-9%)	-5 (-9%)	-2 (-3%)	-2 (-3%)	59	-5 (-9%)	-5 (-9%)	-5 (-9%)	-2 (-4%)	-2 (-3%)
Aug	64	-7 (-12%)	-7 (-12%)	-7 (-11%)	-6 (-9%)	-2 (-4%)	64	-7 (-11%)	-7 (-11%)	-7 (-11%)	-6 (-9%)	-2 (-4%)
Sep	64	-6 (-9%)	-6 (-9%)	-5 (-7%)	-11 (-18%)	-2 (-3%)	64	-5 (-8%)	-5 (-8%)	-5 (-7%)	-11 (-18%)	-2 (-3%)

Notes: W2 reservoir temperature simulation

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, Deg F = Degrees Fahrenheit

Table 7: Monthly Averages of Simulated Madera Canal Temperature at Friant Dam (Deg F) -Wet

Month	Existing Condition (2005)						Future No Action (2030)					
	Existing Condition Deg. F	Change from Existing Condition					No Action Alt Deg. F	Change from No Action				
		Alt1 Deg. F	Alt2 Deg. F	Alt3 Deg. F	Alt4 Deg. F	Alt5 Deg. F		Alt1 Deg. F	Alt2 Deg. F	Alt3 Deg. F	Alt4 Deg. F	Alt5 Deg. F
Oct	53	0 (1%)	0 (0%)	-2 (-3%)	-8 (-15%)	3 (6%)	51	1 (1%)	1 (1%)	1 (1%)	-5 (-11%)	3 (7%)
Nov	42	6 (13%)	3 (8%)	2 (4%)	-1 (-3%)	8 (18%)	40	4 (9%)	4 (9%)	4 (9%)	1 (2%)	8 (19%)
Dec	40	3 (8%)	2 (5%)	2 (5%)	-1 (-2%)	4 (9%)	40	2 (6%)	2 (6%)	2 (6%)	0 (-1%)	4 (9%)
Jan	44	-2 (-4%)	-2 (-4%)	-2 (-4%)	-5 (-12%)	-4 (-10%)	44	-2 (-4%)	-2 (-4%)	-2 (-4%)	-5 (-12%)	-4 (-10%)
Feb	47	-3 (-7%)	-3 (-7%)	-2 (-4%)	-5 (-11%)	-5 (-11%)	47	-2 (-4%)	-2 (-4%)	-2 (-4%)	-4 (-8%)	-5 (-11%)
Mar	46	2 (3%)	2 (3%)	3 (6%)	1 (2%)	0 (1%)	46	3 (6%)	3 (6%)	3 (6%)	2 (5%)	0 (1%)
Apr	49	0 (1%)	0 (1%)	0 (0%)	0 (0%)	0 (-1%)	49	0 (-1%)	0 (-1%)	0 (-1%)	0 (-1%)	0 (-1%)
May	52	-3 (-5%)	-3 (-5%)	-3 (-5%)	-1 (-1%)	-2 (-4%)	52	-3 (-6%)	-3 (-6%)	-3 (-5%)	0 (0%)	-2 (-4%)
Jun	54	-3 (-5%)	-3 (-5%)	-3 (-6%)	1 (1%)	-3 (-5%)	54	-3 (-6%)	-3 (-6%)	-3 (-6%)	0 (1%)	-3 (-5%)
Jul	57	-3 (-5%)	-3 (-5%)	-3 (-6%)	0 (0%)	-3 (-6%)	57	-3 (-6%)	-3 (-6%)	-3 (-6%)	0 (0%)	-3 (-6%)
Aug	61	-6 (-10%)	-6 (-10%)	-5 (-9%)	-2 (-4%)	-5 (-8%)	61	-6 (-9%)	-6 (-9%)	-6 (-9%)	-3 (-4%)	-5 (-8%)
Sep	63	-8 (-13%)	-8 (-13%)	-7 (-11%)	-12 (-19%)	-6 (-10%)	63	-7 (-11%)	-7 (-11%)	-7 (-11%)	-12 (-19%)	0 (0%)

Notes: W2 reservoir temperature simulation

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, Deg F = Degrees Fahrenheit

Table 8: Monthly Averages of Simulated Madera Canal Temperature at Friant Dam (Deg F) -Normal-Wet

Month	Existing Condition (2005)						Future No Action (2030)					
	Existing Condition Deg. F	Change from Existing Condition					No Action Alt Deg. F	Change from No Action				
		Alt1 Deg. F	Alt2 Deg. F	Alt3 Deg. F	Alt4 Deg. F	Alt5 Deg. F		Alt1 Deg. F	Alt2 Deg. F	Alt3 Deg. F	Alt4 Deg. F	Alt5 Deg. F
Oct	55	-2 (-4%)	-2 (-4%)	-5 (-8%)	-8 (-15%)	-4 (-7%)	55	-5 (-9%)	-5 (-9%)	-5 (-8%)	-10 (-18%)	-4 (-7%)
Nov	46	0 (-1%)	0 (-1%)	-5 (-10%)	-3 (-6%)	-5 (-10%)	43	-2 (-6%)	-3 (-6%)	-2 (-6%)	-4 (-10%)	-5 (-11%)
Dec	40	3 (8%)	3 (8%)	-1 (-1%)	2 (6%)	-1 (-1%)	38	2 (6%)	2 (6%)	2 (6%)	1 (4%)	-1 (-1%)
Jan	39	4 (10%)	4 (10%)	0 (1%)	3 (8%)	0 (1%)	35	4 (10%)	4 (10%)	4 (10%)	3 (9%)	0 (1%)
Feb	38	4 (11%)	4 (11%)	1 (2%)	4 (10%)	1 (2%)	35	4 (10%)	4 (10%)	4 (10%)	3 (9%)	1 (2%)
Mar	34	4 (11%)	4 (12%)	1 (2%)	2 (6%)	4 (12%)	33	2 (6%)	2 (6%)	2 (6%)	2 (5%)	4 (13%)
Apr	41	5 (12%)	5 (12%)	4 (9%)	3 (8%)	6 (14%)	41	3 (8%)	3 (8%)	4 (9%)	3 (8%)	6 (14%)
May	52	-1 (-2%)	-1 (-2%)	-1 (-2%)	0 (1%)	1 (2%)	53	-1 (-2%)	-1 (-2%)	-1 (-2%)	0 (0%)	1 (2%)
Jun	55	-3 (-5%)	-3 (-5%)	-3 (-5%)	0 (1%)	1 (1%)	55	-3 (-5%)	-3 (-5%)	-3 (-5%)	0 (0%)	1 (1%)
Jul	61	-6 (-10%)	-6 (-10%)	-6 (-10%)	-3 (-5%)	0 (0%)	61	-6 (-10%)	-6 (-10%)	-6 (-10%)	-3 (-5%)	0 (0%)
Aug	66	-7 (-11%)	-8 (-11%)	-7 (-10%)	-8 (-12%)	1 (1%)	66	-7 (-11%)	-7 (-11%)	-7 (-10%)	-8 (-12%)	1 (1%)
Sep	65	-3 (-4%)	-3 (-5%)	-2 (-3%)	-11 (-16%)	2 (3%)	65	-2 (-4%)	-3 (-4%)	-2 (-3%)	-11 (-16%)	2 (3%)

Notes: W2 reservoir temperature simulation

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, Deg F = Degrees Fahrenheit

Table 9: Monthly Averages of Simulated Madera Canal Temperature at Friant Dam (Deg F) -Normal-Dry

Month	Existing Condition (2005)						Future No Action (2030)					
	Existing Condition Deg. F	Change from Existing Condition					No Action Alt Deg. F	Change from No Action				
		Alt1 Deg. F	Alt2 Deg. F	Alt3 Deg. F	Alt4 Deg. F	Alt5 Deg. F		Alt1 Deg. F	Alt2 Deg. F	Alt3 Deg. F	Alt4 Deg. F	Alt5 Deg. F
Oct	55	-2 (-4%)	-2 (-4%)	-5 (-8%)	-8 (-15%)	-4 (-7%)	55	-5 (-9%)	-5 (-9%)	-5 (-8%)	-10 (-18%)	-4 (-7%)
Nov	46	0 (-1%)	0 (-1%)	-5 (-10%)	-3 (-6%)	-5 (-10%)	43	-2 (-6%)	-3 (-6%)	-2 (-6%)	-4 (-10%)	-5 (-11%)
Dec	40	3 (8%)	3 (8%)	-1 (-1%)	2 (6%)	-1 (-1%)	38	2 (6%)	2 (6%)	2 (6%)	1 (4%)	-1 (-1%)
Jan	39	4 (10%)	4 (10%)	0 (1%)	3 (8%)	0 (1%)	35	4 (10%)	4 (10%)	4 (10%)	3 (9%)	0 (1%)
Feb	38	4 (11%)	4 (11%)	1 (2%)	4 (10%)	1 (2%)	35	4 (10%)	4 (10%)	4 (10%)	3 (9%)	1 (2%)
Mar	34	4 (11%)	4 (12%)	1 (2%)	2 (6%)	4 (12%)	33	2 (6%)	2 (6%)	2 (6%)	2 (5%)	4 (13%)
Apr	41	5 (12%)	5 (12%)	4 (9%)	3 (8%)	6 (14%)	41	3 (8%)	3 (8%)	4 (9%)	3 (8%)	6 (14%)
May	52	-1 (-2%)	-1 (-2%)	-1 (-2%)	0 (1%)	1 (2%)	53	-1 (-2%)	-1 (-2%)	-1 (-2%)	0 (0%)	1 (2%)
Jun	55	-3 (-5%)	-3 (-5%)	-3 (-5%)	0 (1%)	1 (1%)	55	-3 (-5%)	-3 (-5%)	-3 (-5%)	0 (0%)	1 (1%)
Jul	61	-6 (-10%)	-6 (-10%)	-6 (-10%)	-3 (-5%)	0 (0%)	61	-6 (-10%)	-6 (-10%)	-6 (-10%)	-3 (-5%)	0 (0%)
Aug	66	-7 (-11%)	-8 (-11%)	-7 (-10%)	-8 (-12%)	1 (1%)	66	-7 (-11%)	-7 (-11%)	-7 (-10%)	-8 (-12%)	1 (1%)
Sep	65	-3 (-4%)	-3 (-5%)	-2 (-3%)	-11 (-16%)	2 (3%)	65	-2 (-4%)	-3 (-4%)	-2 (-3%)	-11 (-16%)	2 (3%)

Notes: W2 reservoir temperature simulation

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, Deg F = Degrees Fahrenheit

Table 10: Monthly Averages of Simulated Madera Canal Temperature at Friant Dam (Deg F) -Dry

Month	Existing Condition (2005)						Existing Condition (2005)					
	Existing Condition Deg. F	Change from Existing Condition					No Action Alt (cfs)	Future No Action (2030)				
		Alt1 Deg. F	Alt2 Deg. F	Alt3 Deg. F	Alt4 Deg. F			Alt1 Deg. F	Alt2 Deg. F	Alt3 Deg. F	Alt4 Deg. F	
Oct	53	-2 (-4%)	-2 (-4%)	-2 (-3%)	-7 (-14%)	0 (0%)	53	-2 (-3%)	-2 (-3%)	-2 (-3%)	-7 (-12%)	0 (0%)
Nov	43	-1 (-2%)	-1 (-2%)	0 (-1%)	-3 (-8%)	0 (0%)	43	0 (-1%)	0 (-1%)	0 (-1%)	-3 (-6%)	0 (0%)
Dec	36	2 (7%)	2 (7%)	3 (7%)	2 (5%)	0 (-1%)	36	3 (7%)	3 (7%)	3 (7%)	2 (5%)	0 (-1%)
Jan	32	4 (13%)	4 (13%)	4 (13%)	4 (12%)	0 (0%)	32	4 (13%)	4 (13%)	4 (13%)	4 (12%)	0 (0%)
Feb	32	4 (12%)	4 (12%)	4 (12%)	4 (11%)	0 (0%)	32	4 (13%)	4 (13%)	4 (12%)	4 (12%)	0 (0%)
Mar	32	2 (6%)	2 (6%)	2 (6%)	2 (5%)	0 (0%)	32	2 (6%)	2 (6%)	2 (6%)	2 (5%)	0 (0%)
Apr	41	4 (11%)	4 (11%)	4 (11%)	4 (10%)	3 (8%)	41	4 (10%)	4 (10%)	4 (10%)	4 (10%)	3 (8%)
May	51	0 (0%)	0 (0%)	0 (0%)	1 (1%)	2 (4%)	51	0 (-1%)	0 (-1%)	0 (-1%)	0 (1%)	2 (4%)
Jun	54	-3 (-6%)	-3 (-6%)	-3 (-6%)	0 (-1%)	2 (4%)	55	-3 (-6%)	-3 (-6%)	-3 (-6%)	-1 (-2%)	2 (4%)
Jul	61	-8 (-13%)	-8 (-13%)	-8 (-12%)	-5 (-9%)	1 (2%)	61	-8 (-13%)	-8 (-13%)	-8 (-13%)	-6 (-9%)	1 (2%)
Aug	66	-9 (-13%)	-9 (-13%)	-9 (-13%)	-9 (-14%)	2 (3%)	65	-8 (-13%)	-8 (-13%)	-8 (-13%)	-9 (-13%)	2 (3%)
Sep	65	-4 (-7%)	-4 (-7%)	-4 (-6%)	-11 (-18%)	2 (4%)	65	-4 (-6%)	-4 (-6%)	-4 (-6%)	-11 (-17%)	2 (4%)

Notes: W2 reservoir temperature simulation

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, Deg F = Degrees Fahrenheit

Table 11: Monthly Averages of Simulated SJR River Temperature at Friant Dam (Deg F) -All Years

Month	Existing Condition (2005)						Future No Action (2030)					
	Existing Condition Deg. F	Change from Existing Condition					No Action Alt Deg. F	Change from No Action				
		Alt1 Deg. F	Alt2 Deg. F	Alt3 Deg. F	Alt4 Deg. F	Alt5 Deg. F		Alt1 Deg. F	Alt2 Deg. F	Alt3 Deg. F	Alt4 Deg. F	Alt5 Deg. F
Oct	57	-3 (-5%)	-3 (-5%)	-3 (-4%)	-6 (-11%)	1 (1%)	57	-3 (-5%)	-3 (-5%)	-3 (-5%)	-6 (-11%)	1 (1%)
Nov	58	-2 (-4%)	-2 (-4%)	-3 (-4%)	-7 (-13%)	0 (0%)	58	-2 (-4%)	-2 (-4%)	-3 (-4%)	-7 (-12%)	0 (0%)
Dec	54	2 (3%)	2 (3%)	2 (3%)	-3 (-5%)	1 (2%)	54	2 (3%)	2 (3%)	2 (3%)	-2 (-5%)	1 (2%)
Jan	47	6 (12%)	6 (12%)	6 (12%)	4 (8%)	4 (9%)	47	6 (12%)	6 (12%)	6 (12%)	4 (9%)	4 (9%)
Feb	46	5 (12%)	5 (12%)	5 (11%)	5 (11%)	4 (9%)	46	5 (11%)	5 (11%)	5 (11%)	5 (11%)	4 (9%)
Mar	46	4 (9%)	4 (9%)	4 (8%)	4 (9%)	3 (7%)	46	4 (9%)	4 (9%)	4 (9%)	4 (9%)	3 (7%)
Apr	47	2 (5%)	2 (5%)	2 (4%)	2 (5%)	2 (5%)	47	2 (4%)	2 (4%)	2 (4%)	2 (5%)	2 (5%)
May	49	1 (2%)	1 (2%)	1 (1%)	1 (2%)	1 (3%)	49	0 (1%)	0 (1%)	0 (1%)	1 (2%)	1 (3%)
Jun	50	0 (0%)	0 (0%)	0 (0%)	2 (4%)	1 (2%)	50	0 (0%)	0 (0%)	0 (0%)	2 (3%)	1 (2%)
Jul	51	0 (1%)	0 (1%)	0 (0%)	2 (4%)	1 (2%)	51	0 (0%)	0 (0%)	0 (0%)	2 (3%)	1 (2%)
Aug	52	0 (0%)	0 (0%)	0 (0%)	1 (3%)	1 (2%)	53	0 (0%)	0 (0%)	0 (0%)	1 (2%)	1 (2%)
Sep	54	-1 (-2%)	-1 (-1%)	-1 (-1%)	-3 (-6%)	1 (2%)	54	-1 (-2%)	-1 (-2%)	-1 (-2%)	-3 (-6%)	1 (2%)

Notes: W2 reservoir temperature simulation

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, Deg F = Degrees Fahrenheit

Table 12: Monthly Averages of Simulated SJR River Temperature at Friant Dam (Deg F) -Wet

Month	Existing Condition (2005)						Future No Action (2030)					
	Existing Condition Deg. F	Change from Existing Condition					No Action Alt Deg. F	Change from No Action				
		Alt1 Deg. F	Alt2 Deg. F	Alt3 Deg. F	Alt4 Deg. F	Alt5 Deg. F		Alt1 Deg. F	Alt2 Deg. F	Alt3 Deg. F	Alt4 Deg. F	Alt5 Deg. F
Oct	57	-3 (-6%)	-3 (-6%)	-3 (-6%)	-7 (-12%)	0 (0%)	58	-3 (-6%)	-3 (-6%)	-4 (-6%)	-7 (-12%)	0 (0%)
Nov	58	-2 (-3%)	-2 (-3%)	-2 (-4%)	-7 (-13%)	0 (-1%)	58	-2 (-3%)	-2 (-3%)	-2 (-4%)	-7 (-13%)	0 (-1%)
Dec	54	2 (4%)	2 (4%)	2 (4%)	-2 (-4%)	1 (2%)	54	2 (4%)	2 (4%)	2 (4%)	-2 (-4%)	1 (2%)
Jan	46	7 (14%)	7 (14%)	7 (14%)	5 (11%)	5 (11%)	46	7 (14%)	7 (14%)	7 (14%)	5 (11%)	5 (11%)
Feb	45	5 (12%)	5 (12%)	5 (11%)	5 (11%)	4 (8%)	45	5 (12%)	5 (12%)	5 (12%)	5 (11%)	4 (8%)
Mar	45	3 (7%)	3 (7%)	3 (7%)	3 (8%)	2 (5%)	45	3 (7%)	3 (7%)	3 (7%)	3 (8%)	2 (5%)
Apr	46	1 (3%)	1 (3%)	1 (3%)	1 (3%)	1 (2%)	47	1 (2%)	1 (2%)	1 (2%)	1 (2%)	1 (2%)
May	49	-1 (-1%)	-1 (-1%)	0 (-1%)	0 (1%)	0 (0%)	49	-1 (-2%)	-1 (-1%)	-1 (-1%)	0 (1%)	0 (0%)
Jun	51	-1 (-2%)	-1 (-2%)	-1 (-2%)	2 (4%)	-1 (-1%)	51	-1 (-2%)	-1 (-2%)	-1 (-2%)	2 (4%)	-1 (-1%)
Jul	53	0 (0%)	0 (0%)	-1 (-2%)	3 (5%)	-1 (-2%)	53	-1 (-2%)	-1 (-2%)	-1 (-2%)	2 (4%)	-1 (-2%)
Aug	54	-1 (-1%)	-1 (-1%)	0 (0%)	2 (4%)	0 (-1%)	54	0 (0%)	0 (-1%)	0 (0%)	2 (3%)	0 (-1%)
Sep	54	-1 (-1%)	0 (-1%)	0 (0%)	-5 (-9%)	0 (0%)	54	0 (0%)	0 (-1%)	0 (0%)	-5 (-9%)	0 (0%)

Notes: W2 reservoir temperature simulation

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, Deg F = Degrees Fahrenheit

Table 13: Monthly Averages of Simulated SJR River Temperature at Friant Dam (Deg F) -Normal-Wet

Month	Existing Condition (2005)						Future No Action (2030)					
	Existing Condition Deg. F	Change from Existing Condition					No Action Alt Deg. F	Change from No Action				
		Alt1 Deg. F	Alt2 Deg. F	Alt3 Deg. F	Alt4 Deg. F	Alt5 Deg. F		Alt1 Deg. F	Alt2 Deg. F	Alt3 Deg. F	Alt4 Deg. F	Alt5 Deg. F
Oct	57	-3 (-6%)	-3 (-5%)	-3 (-5%)	-6 (-11%)	1 (1%)	57	-3 (-6%)	-3 (-6%)	-3 (-6%)	-6 (-11%)	1 (1%)
Nov	58	-3 (-5%)	-3 (-4%)	-3 (-5%)	-7 (-12%)	0 (0%)	58	-2 (-4%)	-2 (-4%)	-3 (-5%)	-7 (-12%)	0 (0%)
Dec	54	2 (3%)	2 (3%)	2 (3%)	-3 (-5%)	1 (2%)	54	2 (4%)	2 (4%)	2 (4%)	-2 (-4%)	1 (2%)
Jan	48	5 (11%)	5 (11%)	5 (11%)	4 (8%)	3 (7%)	48	5 (11%)	5 (11%)	5 (11%)	4 (8%)	3 (7%)
Feb	47	5 (10%)	5 (10%)	5 (10%)	5 (10%)	4 (8%)	47	5 (10%)	5 (10%)	5 (10%)	5 (10%)	4 (8%)
Mar	46	4 (9%)	4 (9%)	4 (9%)	4 (10%)	4 (8%)	46	4 (9%)	4 (9%)	4 (9%)	4 (10%)	4 (9%)
Apr	47	3 (5%)	3 (6%)	2 (5%)	3 (6%)	3 (7%)	47	2 (5%)	2 (5%)	2 (5%)	3 (6%)	3 (7%)
May	49	1 (2%)	1 (2%)	1 (2%)	1 (3%)	2 (5%)	49	1 (2%)	1 (2%)	1 (2%)	1 (3%)	2 (5%)
Jun	50	1 (1%)	1 (1%)	0 (1%)	1 (2%)	2 (4%)	50	0 (1%)	0 (1%)	0 (1%)	1 (2%)	2 (4%)
Jul	51	0 (0%)	0 (0%)	0 (0%)	1 (2%)	2 (4%)	51	0 (0%)	0 (0%)	0 (0%)	1 (2%)	2 (4%)
Aug	52	0 (-1%)	0 (-1%)	0 (-1%)	1 (1%)	2 (4%)	52	0 (-1%)	0 (-1%)	0 (-1%)	0 (1%)	2 (4%)
Sep	54	-1 (-2%)	-1 (-2%)	-1 (-3%)	-3 (-5%)	2 (5%)	54	-2 (-3%)	-2 (-3%)	-2 (-3%)	-3 (-5%)	2 (5%)

Notes: W2 reservoir temperature simulation

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, Deg F = Degrees Fahrenheit

Table 14: Monthly Averages of Simulated SJR River Temperature at Friant Dam (Deg F) -Normal-Dry

Month	Existing Condition (2005)						Future No Action (2030)					
	Existing Condition Deg. F	Change from Existing Condition					No Action Alt Deg. F	Change from No Action				
		Alt1 Deg. F	Alt2 Deg. F	Alt3 Deg. F	Alt4 Deg. F	Alt5 Deg. F		Alt1 Deg. F	Alt2 Deg. F	Alt3 Deg. F	Alt4 Deg. F	Alt5 Deg. F
Oct	57	-3 (-6%)	-3 (-5%)	-3 (-5%)	-6 (-11%)	1 (1%)	57	-3 (-6%)	-3 (-6%)	-3 (-6%)	-6 (-11%)	1 (1%)
Nov	58	-3 (-5%)	-3 (-4%)	-3 (-5%)	-7 (-12%)	0 (0%)	58	-2 (-4%)	-2 (-4%)	-3 (-5%)	-7 (-12%)	0 (0%)
Dec	54	2 (3%)	2 (3%)	2 (3%)	-3 (-5%)	1 (2%)	54	2 (4%)	2 (4%)	2 (4%)	-2 (-4%)	1 (2%)
Jan	48	5 (11%)	5 (11%)	5 (11%)	4 (8%)	3 (7%)	48	5 (11%)	5 (11%)	5 (11%)	4 (8%)	3 (7%)
Feb	47	5 (10%)	5 (10%)	5 (10%)	5 (10%)	4 (8%)	47	5 (10%)	5 (10%)	5 (10%)	5 (10%)	4 (8%)
Mar	46	4 (9%)	4 (9%)	4 (9%)	4 (10%)	4 (8%)	46	4 (9%)	4 (9%)	4 (9%)	4 (10%)	4 (9%)
Apr	47	3 (5%)	3 (6%)	2 (5%)	3 (6%)	3 (7%)	47	2 (5%)	2 (5%)	2 (5%)	3 (6%)	3 (7%)
May	49	1 (2%)	1 (2%)	1 (2%)	1 (3%)	2 (5%)	49	1 (2%)	1 (2%)	1 (2%)	1 (3%)	2 (5%)
Jun	50	1 (1%)	1 (1%)	0 (1%)	1 (2%)	2 (4%)	50	0 (1%)	0 (1%)	0 (1%)	1 (2%)	2 (4%)
Jul	51	0 (0%)	0 (0%)	0 (0%)	1 (2%)	2 (4%)	51	0 (0%)	0 (0%)	0 (0%)	1 (2%)	2 (4%)
Aug	52	0 (-1%)	0 (-1%)	0 (-1%)	1 (1%)	2 (4%)	52	0 (-1%)	0 (-1%)	0 (-1%)	0 (1%)	2 (4%)
Sep	54	-1 (-2%)	-1 (-2%)	-1 (-3%)	-3 (-5%)	2 (5%)	54	-2 (-3%)	-2 (-3%)	-2 (-3%)	-3 (-5%)	2 (5%)

Notes: W2 reservoir temperature simulation

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, Deg F = Degrees Fahrenheit

Table 15: Monthly Averages of Simulated SJR River Temperature at Friant Dam (Deg F) -Dry

Month	Existing Condition (2005)						Existing Condition (2005)					
	Existing Condition Deg. F	Change from Existing Condition						Future No Action (2030)				
		Alt1 Deg. F	Alt2 Deg. F	Alt3 Deg. F	Alt4 Deg. F		No Action Alt (cfs)	Alt1 Deg. F	Alt2 Deg. F	Alt3 Deg. F	Alt4 Deg. F	
Oct	56	-2 (-4%)	-2 (-4%)	-2 (-4%)	-6 (-10%)	2 (3%)	56	-2 (-4%)	-2 (-4%)	-2 (-4%)	-5 (-10%)	2 (3%)
Nov	58	-2 (-4%)	-2 (-4%)	-3 (-4%)	-7 (-12%)	1 (1%)	58	-2 (-4%)	-2 (-4%)	-3 (-4%)	-7 (-12%)	1 (1%)
Dec	54	2 (3%)	2 (3%)	2 (3%)	-3 (-6%)	1 (2%)	54	2 (3%)	2 (3%)	2 (3%)	-2 (-4%)	1 (2%)
Jan	48	5 (10%)	5 (10%)	5 (10%)	3 (6%)	3 (6%)	48	5 (10%)	5 (10%)	5 (10%)	4 (8%)	3 (6%)
Feb	47	5 (10%)	5 (10%)	4 (10%)	4 (9%)	3 (7%)	47	5 (10%)	5 (10%)	5 (10%)	5 (10%)	3 (7%)
Mar	46	4 (8%)	4 (8%)	3 (7%)	4 (8%)	3 (7%)	46	4 (8%)	4 (8%)	4 (8%)	4 (9%)	3 (7%)
Apr	47	2 (5%)	2 (5%)	2 (4%)	3 (6%)	2 (5%)	47	2 (4%)	2 (4%)	2 (4%)	3 (6%)	2 (5%)
May	48	2 (3%)	2 (3%)	1 (3%)	2 (4%)	2 (4%)	48	1 (3%)	1 (3%)	1 (3%)	2 (4%)	2 (4%)
Jun	49	1 (2%)	1 (2%)	1 (2%)	1 (3%)	2 (4%)	49	1 (1%)	1 (2%)	1 (1%)	1 (3%)	2 (4%)
Jul	50	1 (1%)	1 (1%)	0 (1%)	1 (2%)	2 (4%)	50	0 (0%)	0 (0%)	0 (0%)	1 (2%)	2 (4%)
Aug	51	0 (-1%)	0 (-1%)	-1 (-1%)	0 (0%)	2 (3%)	51	-1 (-1%)	-1 (-1%)	-1 (-1%)	0 (0%)	2 (3%)
Sep	53	-2 (-4%)	-2 (-4%)	-2 (-4%)	-2 (-5%)	2 (3%)	53	-2 (-4%)	-2 (-4%)	-2 (-4%)	-3 (-5%)	2 (3%)

Notes: W2 reservoir temperature simulation

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, Deg F = Degrees Fahrenheit

Table 16: Monthly Averages of Simulated 52 Deg F Cold Water Pool in Millerton Lake (TAF) -All Years

Month	Existing Condition (2005)						Future No Action (2030)					
	Existing Condition (TAF)	Change from Existing Condition					No Action Alt (TAF)	Change from No Action				
		Alt1 (TAF)	Alt2 (TAF)	Alt3 (TAF)	Alt4 (TAF)	Alt5 (TAF)		Alt1 (TAF)	Alt2 (TAF)	Alt3 (TAF)	Alt4 (TAF)	Alt5 (TAF)
Oct	8	-3 (-43%)	-3 (-43%)	-3 (-36%)	89 (1185%)	-6 (-87%)	7	-2 (-35%)	-2 (-33%)	-2 (-32%)	85 (1189%)	-6 (-91%)
Nov	6	-4 (-63%)	-4 (-64%)	-3 (-57%)	54 (954%)	-5 (-86%)	5	-3 (-57%)	-3 (-57%)	-3 (-55%)	51 (946%)	-5 (-91%)
Dec	24	-23 (-95%)	-23 (-95%)	-23 (-94%)	16 (65%)	-17 (-70%)	24	-22 (-95%)	-22 (-95%)	-22 (-94%)	8 (34%)	-17 (-72%)
Jan	238	-197 (-82%)	-198 (-83%)	-204 (-85%)	-54 (-22%)	-143 (-60%)	228	-195 (-86%)	-195 (-86%)	-193 (-85%)	-62 (-27%)	-143 (-63%)
Feb	312	-214 (-69%)	-219 (-70%)	-222 (-71%)	-114 (-37%)	-178 (-57%)	294	-204 (-69%)	-204 (-70%)	-203 (-69%)	-105 (-36%)	-178 (-61%)
Mar	279	-165 (-59%)	-166 (-60%)	-166 (-59%)	-121 (-43%)	-145 (-52%)	270	-157 (-58%)	-157 (-58%)	-157 (-58%)	-118 (-44%)	-145 (-54%)
Apr	224	-82 (-36%)	-82 (-37%)	-84 (-37%)	-66 (-29%)	-92 (-41%)	208	-67 (-32%)	-67 (-32%)	-67 (-32%)	-54 (-26%)	-92 (-44%)
May	146	6 (4%)	6 (4%)	6 (4%)	-26 (-18%)	-20 (-14%)	132	20 (15%)	20 (15%)	20 (15%)	-20 (-15%)	-20 (-15%)
Jun	85	41 (48%)	42 (49%)	40 (47%)	-41 (-48%)	-4 (-5%)	81	45 (56%)	46 (57%)	44 (55%)	-39 (-48%)	-4 (-5%)
Jul	40	18 (46%)	20 (50%)	16 (40%)	-22 (-56%)	-4 (-11%)	37	22 (60%)	23 (61%)	19 (51%)	-19 (-52%)	-4 (-11%)
Aug	19	2 (11%)	2 (10%)	-1 (-6%)	-6 (-33%)	-14 (-76%)	17	0 (1%)	1 (6%)	0 (0%)	-4 (-25%)	-14 (-81%)
Sep	11	-3 (-24%)	-3 (-25%)	-2 (-16%)	79 (731%)	-9 (-87%)	10	-1 (-13%)	-1 (-10%)	-1 (-11%)	80 (783%)	-9 (-92%)

Notes: W2 reservoir temperature simulation

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, Deg F = Degrees Fahrenheit

Table 17: Monthly Averages of Simulated 52 Deg F Cold Water Pool in Millerton Lake (TAF) -Wet

Month	Existing Condition (2005)						Future No Action (2030)					
	Existing Condition (TAF)	Change from Existing Condition					No Action Alt (TAF)	Change from No Action				
		Alt1 (TAF)	Alt2 (TAF)	Alt3 (TAF)	Alt4 (TAF)	Alt5 (TAF)		Alt1 (TAF)	Alt2 (TAF)	Alt3 (TAF)	Alt4 (TAF)	Alt5 (TAF)
Oct	7	-4 (-55%)	-4 (-54%)	-3 (-41%)	102 (1406%)	-6 (-89%)	7	-3 (-41%)	-3 (-40%)	-3 (-37%)	97 (1432%)	-6 (-95%)
Nov	5	-3 (-65%)	-3 (-66%)	-3 (-55%)	65 (1390%)	-4 (-88%)	4	-3 (-57%)	-3 (-58%)	-2 (-52%)	61 (1388%)	-4 (-93%)
Dec	37	-37 (-98%)	-37 (-98%)	-36 (-97%)	-6 (-17%)	-24 (-65%)	35	-34 (-97%)	-34 (-97%)	-34 (-97%)	-1 (-3%)	-24 (-70%)
Jan	304	-247 (-81%)	-249 (-82%)	-248 (-81%)	-88 (-29%)	-160 (-53%)	302	-246 (-81%)	-246 (-82%)	-245 (-81%)	-109 (-36%)	-160 (-53%)
Feb	381	-256 (-67%)	-258 (-68%)	-258 (-68%)	-158 (-42%)	-183 (-48%)	374	-251 (-67%)	-251 (-67%)	-252 (-67%)	-158 (-42%)	-183 (-49%)
Mar	348	-204 (-59%)	-205 (-59%)	-208 (-60%)	-165 (-47%)	-154 (-44%)	357	-215 (-60%)	-215 (-60%)	-216 (-61%)	-179 (-50%)	-154 (-43%)
Apr	285	-117 (-41%)	-118 (-41%)	-121 (-42%)	-104 (-36%)	-109 (-38%)	274	-108 (-39%)	-108 (-40%)	-109 (-40%)	-99 (-36%)	-109 (-40%)
May	188	-13 (-7%)	-14 (-7%)	-15 (-8%)	-51 (-27%)	-19 (-10%)	172	2 (1%)	2 (1%)	1 (1%)	-55 (-32%)	-19 (-11%)
Jun	110	34 (31%)	35 (31%)	42 (38%)	-78 (-70%)	28 (25%)	109	45 (42%)	46 (42%)	43 (40%)	-86 (-79%)	28 (26%)
Jul	36	37 (104%)	39 (109%)	37 (105%)	-35 (-99%)	43 (121%)	35	43 (124%)	43 (123%)	38 (108%)	-35 (-99%)	43 (122%)
Aug	12	6 (46%)	4 (36%)	-6 (-49%)	-11 (-90%)	-6 (-51%)	12	-6 (-48%)	-4 (-36%)	-6 (-48%)	-10 (-86%)	-6 (-51%)
Sep	7	-6 (-82%)	-6 (-88%)	-6 (-83%)	116 (1661%)	-6 (-80%)	7	-6 (-89%)	-6 (-81%)	-6 (-83%)	116 (1672%)	0 (0%)

Notes: W2 reservoir temperature simulation

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, Deg F = Degrees Fahrenheit

Table 18: Monthly Averages of Simulated 52 Deg F Cold Water Pool in Millerton Lake (TAF) -Normal-Wet

Month	Existing Condition (2005)						Future No Action (2030)					
	Existing Condition (TAF)	Change from Existing Condition					No Action Alt (TAF)	Change from No Action				
		Alt1 (TAF)	Alt2 (TAF)	Alt3 (TAF)	Alt4 (TAF)	Alt5 (TAF)		Alt1 (TAF)	Alt2 (TAF)	Alt3 (TAF)	Alt4 (TAF)	Alt5 (TAF)
Oct	8	0 (-3%)	0 (-3%)	0 (2%)	75 (939%)	-7 (-88%)	7	1 (11%)	1 (13%)	1 (12%)	78 (1067%)	-7 (-96%)
Nov	7	-3 (-51%)	-4 (-52%)	-3 (-44%)	40 (588%)	-6 (-88%)	6	-3 (-41%)	-3 (-40%)	-2 (-39%)	41 (666%)	-6 (-96%)
Dec	24	-22 (-92%)	-22 (-92%)	-22 (-91%)	19 (80%)	-15 (-64%)	23	-22 (-92%)	-22 (-92%)	-21 (-91%)	7 (31%)	-15 (-65%)
Jan	212	-189 (-89%)	-192 (-90%)	-197 (-93%)	-36 (-17%)	-158 (-74%)	194	-180 (-93%)	-179 (-92%)	-180 (-92%)	-22 (-11%)	-158 (-81%)
Feb	264	-156 (-59%)	-168 (-64%)	-173 (-66%)	-74 (-28%)	-166 (-63%)	241	-149 (-62%)	-152 (-63%)	-150 (-62%)	-53 (-22%)	-166 (-69%)
Mar	219	-124 (-56%)	-125 (-57%)	-122 (-55%)	-88 (-40%)	-125 (-57%)	204	-106 (-52%)	-107 (-52%)	-106 (-52%)	-74 (-36%)	-125 (-61%)
Apr	178	-59 (-33%)	-59 (-33%)	-57 (-32%)	-48 (-27%)	-78 (-44%)	165	-44 (-27%)	-44 (-27%)	-43 (-26%)	-33 (-20%)	-78 (-47%)
May	118	19 (16%)	19 (16%)	18 (15%)	-16 (-13%)	-25 (-21%)	111	24 (21%)	24 (21%)	25 (22%)	-5 (-5%)	-25 (-22%)
Jun	69	45 (66%)	47 (69%)	40 (58%)	-23 (-34%)	-30 (-44%)	65	43 (66%)	44 (68%)	43 (66%)	-16 (-24%)	-30 (-47%)
Jul	39	2 (6%)	6 (15%)	4 (12%)	-21 (-55%)	-31 (-80%)	37	8 (22%)	9 (23%)	7 (18%)	-17 (-47%)	-31 (-85%)
Aug	20	-1 (-7%)	-1 (-5%)	0 (-1%)	-9 (-43%)	-17 (-86%)	19	1 (5%)	1 (6%)	1 (4%)	-5 (-25%)	-17 (-91%)
Sep	12	-2 (-21%)	-2 (-21%)	-2 (-14%)	50 (433%)	-10 (-89%)	11	-1 (-11%)	-1 (-11%)	-1 (-10%)	58 (526%)	-10 (-94%)

Notes: W2 reservoir temperature simulation

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, Deg F = Degrees Fahrenheit

Table 19: Monthly Averages of Simulated 52 Deg F Cold Water Pool in Millerton Lake (TAF) -Normal-Dry

Month	Existing Condition (2005)						Future No Action (2030)					
	Existing Condition (TAF)	Change from Existing Condition					No Action Alt (TAF)	Change from No Action				
		Alt1 (TAF)	Alt2 (TAF)	Alt3 (TAF)	Alt4 (TAF)	Alt5 (TAF)		Alt1 (TAF)	Alt2 (TAF)	Alt3 (TAF)	Alt4 (TAF)	Alt5 (TAF)
Oct	8	0 (-3%)	0 (-3%)	0 (2%)	75 (939%)	-7 (-88%)	7	1 (11%)	1 (13%)	1 (12%)	78 (1067%)	-7 (-96%)
Nov	7	-3 (-51%)	-4 (-52%)	-3 (-44%)	40 (588%)	-6 (-88%)	6	-3 (-41%)	-3 (-40%)	-2 (-39%)	41 (666%)	-6 (-96%)
Dec	24	-22 (-92%)	-22 (-92%)	-22 (-91%)	19 (80%)	-15 (-64%)	23	-22 (-92%)	-22 (-92%)	-21 (-91%)	7 (31%)	-15 (-65%)
Jan	212	-189 (-89%)	-192 (-90%)	-197 (-93%)	-36 (-17%)	-158 (-74%)	194	-180 (-93%)	-179 (-92%)	-180 (-92%)	-22 (-11%)	-158 (-81%)
Feb	264	-156 (-59%)	-168 (-64%)	-173 (-66%)	-74 (-28%)	-166 (-63%)	241	-149 (-62%)	-152 (-63%)	-150 (-62%)	-53 (-22%)	-166 (-69%)
Mar	219	-124 (-56%)	-125 (-57%)	-122 (-55%)	-88 (-40%)	-125 (-57%)	204	-106 (-52%)	-107 (-52%)	-106 (-52%)	-74 (-36%)	-125 (-61%)
Apr	178	-59 (-33%)	-59 (-33%)	-57 (-32%)	-48 (-27%)	-78 (-44%)	165	-44 (-27%)	-44 (-27%)	-43 (-26%)	-33 (-20%)	-78 (-47%)
May	118	19 (16%)	19 (16%)	18 (15%)	-16 (-13%)	-25 (-21%)	111	24 (21%)	24 (21%)	25 (22%)	-5 (-5%)	-25 (-22%)
Jun	69	45 (66%)	47 (69%)	40 (58%)	-23 (-34%)	-30 (-44%)	65	43 (66%)	44 (68%)	43 (66%)	-16 (-24%)	-30 (-47%)
Jul	39	2 (6%)	6 (15%)	4 (12%)	-21 (-55%)	-31 (-80%)	37	8 (22%)	9 (23%)	7 (18%)	-17 (-47%)	-31 (-85%)
Aug	20	-1 (-7%)	-1 (-5%)	0 (-1%)	-9 (-43%)	-17 (-86%)	19	1 (5%)	1 (6%)	1 (4%)	-5 (-25%)	-17 (-91%)
Sep	12	-2 (-21%)	-2 (-21%)	-2 (-14%)	50 (433%)	-10 (-89%)	11	-1 (-11%)	-1 (-11%)	-1 (-10%)	58 (526%)	-10 (-94%)

Notes: W2 reservoir temperature simulation

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, Deg F = Degrees Fahrenheit

Table 20: Monthly Averages of Simulated 52 Deg F Cold Water Pool in Millerton Lake (TAF) -Dry

Month	Existing Condition (2005)						Existing Condition (2005)					
	Existing Condition (TAF)	Change from Existing Condition						Future No Action (2030)				
		Alt1 (TAF)	Alt2 (TAF)	Alt3 (TAF)	Alt4 (TAF)		No Action Alt (cfs)	Alt1 (TAF)	Alt2 (TAF)	Alt3 (TAF)	Alt4 (TAF)	
Oct	8	-4 (-47%)	-4 (-49%)	-3 (-39%)	85 (1072%)	-7 (-86%)	8	-3 (-41%)	-3 (-40%)	-3 (-39%)	70 (874%)	-7 (-85%)
Nov	7	-4 (-67%)	-4 (-69%)	-4 (-61%)	57 (876%)	-6 (-87%)	7	-4 (-64%)	-4 (-63%)	-4 (-62%)	46 (702%)	-6 (-86%)
Dec	22	-21 (-94%)	-21 (-94%)	-21 (-93%)	33 (146%)	-18 (-79%)	23	-22 (-94%)	-22 (-94%)	-21 (-93%)	10 (43%)	-18 (-76%)
Jan	228	-201 (-88%)	-207 (-91%)	-224 (-98%)	-19 (-8%)	-127 (-56%)	209	-205 (-98%)	-205 (-98%)	-205 (-98%)	-47 (-23%)	-127 (-61%)
Feb	270	-217 (-80%)	-222 (-82%)	-230 (-85%)	-32 (-12%)	-159 (-59%)	237	-197 (-83%)	-196 (-83%)	-197 (-83%)	-23 (-10%)	-159 (-67%)
Mar	224	-133 (-59%)	-134 (-60%)	-133 (-59%)	-47 (-21%)	-116 (-52%)	198	-107 (-54%)	-107 (-54%)	-107 (-54%)	-33 (-17%)	-116 (-59%)
Apr	194	-62 (-32%)	-62 (-32%)	-61 (-32%)	-27 (-14%)	-82 (-42%)	174	-42 (-24%)	-42 (-24%)	-42 (-24%)	-13 (-7%)	-82 (-47%)
May	142	13 (9%)	12 (9%)	13 (9%)	2 (2%)	-35 (-24%)	132	23 (18%)	24 (18%)	24 (18%)	12 (9%)	-35 (-26%)
Jun	87	64 (73%)	64 (73%)	63 (73%)	10 (11%)	-25 (-29%)	84	65 (78%)	67 (80%)	67 (80%)	11 (13%)	-25 (-30%)
Jul	55	25 (44%)	25 (46%)	27 (49%)	5 (8%)	-32 (-58%)	54	28 (52%)	29 (55%)	29 (53%)	6 (10%)	-32 (-59%)
Aug	30	14 (46%)	14 (48%)	18 (61%)	13 (44%)	-22 (-73%)	30	19 (64%)	19 (66%)	19 (65%)	13 (45%)	-22 (-75%)
Sep	17	9 (53%)	9 (55%)	12 (72%)	74 (443%)	-14 (-82%)	16	12 (74%)	13 (76%)	12 (74%)	72 (437%)	-14 (-84%)

Notes: W2 reservoir temperature simulation

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, Deg F = Degrees Fahrenheit

Table 21: Monthly Averages of Simulated 60 Deg F Cold Water Pool in Millerton Lake (TAF) -All Years

Month	Existing Condition (2005)						Future No Action (2030)					
	Existing Condition (TAF)	Change from Existing Condition					No Action Alt (TAF)	Change from No Action				
		Alt1 (TAF)	Alt2 (TAF)	Alt3 (TAF)	Alt4 (TAF)	Alt5 (TAF)		Alt1 (TAF)	Alt2 (TAF)	Alt3 (TAF)	Alt4 (TAF)	Alt5 (TAF)
Oct	42	91 (218%)	92 (219%)	78 (186%)	135 (322%)	42 (100%)	41	81 (196%)	83 (203%)	79 (192%)	134 (327%)	42 (102%)
Nov	134	47 (35%)	45 (34%)	37 (27%)	106 (80%)	26 (19%)	135	35 (26%)	37 (27%)	35 (26%)	101 (74%)	26 (19%)
Dec	267	72 (27%)	70 (26%)	67 (25%)	81 (30%)	3 (1%)	257	78 (30%)	79 (31%)	77 (30%)	91 (35%)	3 (1%)
Jan	317	32 (10%)	30 (9%)	31 (10%)	32 (10%)	-28 (-9%)	296	52 (17%)	52 (17%)	52 (17%)	52 (17%)	-28 (-9%)
Feb	356	-8 (-2%)	-10 (-3%)	-9 (-3%)	-8 (-2%)	-53 (-15%)	333	14 (4%)	14 (4%)	14 (4%)	14 (4%)	-53 (-16%)
Mar	367	-36 (-10%)	-39 (-11%)	-38 (-10%)	-34 (-9%)	-73 (-20%)	352	-22 (-6%)	-22 (-6%)	-23 (-7%)	-20 (-6%)	-73 (-21%)
Apr	354	-68 (-19%)	-71 (-20%)	-75 (-21%)	-65 (-18%)	-96 (-27%)	329	-48 (-15%)	-48 (-15%)	-50 (-15%)	-45 (-14%)	-96 (-29%)
May	325	-89 (-28%)	-92 (-28%)	-95 (-29%)	-86 (-26%)	-105 (-32%)	295	-63 (-21%)	-63 (-21%)	-65 (-22%)	-61 (-21%)	-105 (-36%)
Jun	279	-51 (-18%)	-53 (-19%)	-59 (-21%)	-60 (-22%)	-74 (-27%)	262	-39 (-15%)	-39 (-15%)	-41 (-16%)	-49 (-19%)	-74 (-28%)
Jul	178	56 (32%)	54 (31%)	45 (25%)	19 (11%)	1 (1%)	174	53 (31%)	54 (31%)	49 (28%)	15 (9%)	1 (1%)
Aug	91	106 (116%)	108 (118%)	95 (104%)	68 (74%)	54 (59%)	90	103 (115%)	106 (118%)	96 (107%)	69 (77%)	54 (60%)
Sep	59	97 (163%)	98 (166%)	85 (144%)	119 (200%)	54 (91%)	58	90 (156%)	92 (160%)	86 (149%)	120 (207%)	54 (93%)

Notes: W2 reservoir temperature simulation

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, Deg F = Degrees Fahrenheit

Table 22: Monthly Averages of Simulated 60 Deg F Cold Water Pool in Millerton Lake (TAF) -Wet

Month	Existing Condition (2005)						Future No Action (2030)					
	Existing Condition (TAF)	Change from Existing Condition					No Action Alt (TAF)	Change from No Action				
		Alt1 (TAF)	Alt2 (TAF)	Alt3 (TAF)	Alt4 (TAF)	Alt5 (TAF)		Alt1 (TAF)	Alt2 (TAF)	Alt3 (TAF)	Alt4 (TAF)	Alt5 (TAF)
Oct	42	87 (210%)	87 (209%)	77 (184%)	131 (314%)	41 (99%)	41	81 (199%)	84 (207%)	78 (191%)	131 (321%)	41 (101%)
Nov	170	31 (19%)	27 (16%)	24 (14%)	98 (57%)	23 (13%)	172	21 (12%)	23 (13%)	22 (13%)	90 (52%)	23 (13%)
Dec	285	62 (22%)	61 (22%)	60 (21%)	65 (23%)	-7 (-3%)	279	66 (24%)	66 (24%)	66 (24%)	71 (25%)	-7 (-3%)
Jan	359	-9 (-2%)	-10 (-3%)	-9 (-3%)	-9 (-2%)	-48 (-13%)	346	3 (1%)	4 (1%)	4 (1%)	4 (1%)	-48 (-14%)
Feb	413	-64 (-15%)	-65 (-16%)	-64 (-15%)	-64 (-15%)	-74 (-18%)	403	-54 (-13%)	-54 (-13%)	-54 (-13%)	-54 (-13%)	-74 (-18%)
Mar	425	-89 (-21%)	-91 (-21%)	-89 (-21%)	-88 (-21%)	-88 (-21%)	431	-96 (-22%)	-96 (-22%)	-96 (-22%)	-95 (-22%)	-88 (-20%)
Apr	417	-101 (-24%)	-103 (-25%)	-107 (-26%)	-98 (-24%)	-101 (-24%)	405	-95 (-23%)	-95 (-23%)	-95 (-23%)	-91 (-22%)	-101 (-25%)
May	355	-97 (-27%)	-100 (-28%)	-105 (-29%)	-87 (-25%)	-99 (-28%)	329	-76 (-23%)	-76 (-23%)	-78 (-24%)	-69 (-21%)	-99 (-30%)
Jun	371	-124 (-33%)	-125 (-34%)	-137 (-37%)	-122 (-33%)	-130 (-35%)	353	-115 (-33%)	-115 (-32%)	-119 (-34%)	-115 (-33%)	-130 (-37%)
Jul	305	-39 (-13%)	-42 (-14%)	-66 (-22%)	-50 (-16%)	-64 (-21%)	301	-56 (-18%)	-54 (-18%)	-63 (-21%)	-63 (-21%)	-64 (-21%)
Aug	129	118 (91%)	119 (92%)	113 (87%)	73 (56%)	110 (85%)	127	123 (97%)	126 (99%)	115 (91%)	79 (62%)	110 (87%)
Sep	78	150 (192%)	150 (192%)	138 (177%)	126 (162%)	127 (163%)	77	145 (189%)	147 (191%)	140 (183%)	135 (176%)	0 (0%)

Notes: W2 reservoir temperature simulation

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, Deg F = Degrees Fahrenheit

Table 23: Monthly Averages of Simulated 60 Deg F Cold Water Pool in Millerton Lake (TAF) -Normal-Wet

Month	Existing Condition (2005)						Future No Action (2030)					
	Existing Condition (TAF)	Change from Existing Condition					No Action Alt (TAF)	Change from No Action				
		Alt1 (TAF)	Alt2 (TAF)	Alt3 (TAF)	Alt4 (TAF)	Alt5 (TAF)		Alt1 (TAF)	Alt2 (TAF)	Alt3 (TAF)	Alt4 (TAF)	Alt5 (TAF)
Oct	36	86 (239%)	86 (240%)	69 (193%)	136 (377%)	33 (92%)	36	73 (206%)	77 (216%)	70 (196%)	132 (371%)	33 (93%)
Nov	130	40 (31%)	39 (30%)	26 (20%)	99 (76%)	10 (8%)	131	29 (22%)	33 (25%)	25 (19%)	95 (72%)	10 (8%)
Dec	241	93 (39%)	91 (38%)	89 (37%)	103 (43%)	6 (3%)	233	99 (43%)	100 (43%)	97 (42%)	110 (47%)	6 (3%)
Jan	279	68 (24%)	67 (24%)	66 (24%)	68 (24%)	-18 (-7%)	257	87 (34%)	88 (34%)	87 (34%)	87 (34%)	-18 (-7%)
Feb	298	47 (16%)	46 (15%)	44 (15%)	48 (16%)	-35 (-12%)	273	70 (26%)	70 (26%)	69 (25%)	70 (26%)	-35 (-13%)
Mar	307	28 (9%)	25 (8%)	24 (8%)	29 (10%)	-49 (-16%)	285	48 (17%)	48 (17%)	46 (16%)	49 (17%)	-49 (-17%)
Apr	301	-26 (-9%)	-29 (-10%)	-31 (-10%)	-23 (-8%)	-79 (-26%)	278	-5 (-2%)	-4 (-1%)	-8 (-3%)	-1 (0%)	-79 (-28%)
May	304	-84 (-28%)	-85 (-28%)	-86 (-28%)	-88 (-29%)	-106 (-35%)	281	-61 (-22%)	-60 (-22%)	-63 (-22%)	-63 (-22%)	-106 (-38%)
Jun	207	0 (0%)	-1 (-1%)	-2 (-1%)	-22 (-11%)	-28 (-14%)	195	10 (5%)	10 (5%)	9 (5%)	-6 (-3%)	-28 (-14%)
Jul	105	109 (104%)	109 (103%)	107 (102%)	54 (51%)	23 (22%)	103	110 (107%)	111 (108%)	109 (106%)	53 (52%)	23 (23%)
Aug	70	84 (121%)	88 (126%)	70 (100%)	65 (94%)	-10 (-15%)	69	76 (111%)	81 (118%)	71 (103%)	68 (100%)	-10 (-15%)
Sep	48	45 (95%)	48 (101%)	41 (87%)	113 (237%)	-18 (-38%)	47	44 (93%)	46 (99%)	42 (90%)	112 (240%)	-18 (-38%)

Notes: W2 reservoir temperature simulation

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, Deg F = Degrees Fahrenheit

Table 24: Monthly Averages of Simulated 60 Deg F Cold Water Pool in Millerton Lake (TAF) -Normal-Dry

Month	Existing Condition (2005)						Future No Action (2030)					
	Existing Condition (TAF)	Change from Existing Condition					No Action Alt (TAF)	Change from No Action				
		Alt1 (TAF)	Alt2 (TAF)	Alt3 (TAF)	Alt4 (TAF)	Alt5 (TAF)		Alt1 (TAF)	Alt2 (TAF)	Alt3 (TAF)	Alt4 (TAF)	Alt5 (TAF)
Oct	36	86 (239%)	86 (240%)	69 (193%)	136 (377%)	33 (92%)	36	73 (206%)	77 (216%)	70 (196%)	132 (371%)	33 (93%)
Nov	130	40 (31%)	39 (30%)	26 (20%)	99 (76%)	10 (8%)	131	29 (22%)	33 (25%)	25 (19%)	95 (72%)	10 (8%)
Dec	241	93 (39%)	91 (38%)	89 (37%)	103 (43%)	6 (3%)	233	99 (43%)	100 (43%)	97 (42%)	110 (47%)	6 (3%)
Jan	279	68 (24%)	67 (24%)	66 (24%)	68 (24%)	-18 (-7%)	257	87 (34%)	88 (34%)	87 (34%)	87 (34%)	-18 (-7%)
Feb	298	47 (16%)	46 (15%)	44 (15%)	48 (16%)	-35 (-12%)	273	70 (26%)	70 (26%)	69 (25%)	70 (26%)	-35 (-13%)
Mar	307	28 (9%)	25 (8%)	24 (8%)	29 (10%)	-49 (-16%)	285	48 (17%)	48 (17%)	46 (16%)	49 (17%)	-49 (-17%)
Apr	301	-26 (-9%)	-29 (-10%)	-31 (-10%)	-23 (-8%)	-79 (-26%)	278	-5 (-2%)	-4 (-1%)	-8 (-3%)	-1 (0%)	-79 (-28%)
May	304	-84 (-28%)	-85 (-28%)	-86 (-28%)	-88 (-29%)	-106 (-35%)	281	-61 (-22%)	-60 (-22%)	-63 (-22%)	-63 (-22%)	-106 (-38%)
Jun	207	0 (0%)	-1 (-1%)	-2 (-1%)	-22 (-11%)	-28 (-14%)	195	10 (5%)	10 (5%)	9 (5%)	-6 (-3%)	-28 (-14%)
Jul	105	109 (104%)	109 (103%)	107 (102%)	54 (51%)	23 (22%)	103	110 (107%)	111 (108%)	109 (106%)	53 (52%)	23 (23%)
Aug	70	84 (121%)	88 (126%)	70 (100%)	65 (94%)	-10 (-15%)	69	76 (111%)	81 (118%)	71 (103%)	68 (100%)	-10 (-15%)
Sep	48	45 (95%)	48 (101%)	41 (87%)	113 (237%)	-18 (-38%)	47	44 (93%)	46 (99%)	42 (90%)	112 (240%)	-18 (-38%)

Notes: W2 reservoir temperature simulation

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, Deg F = Degrees Fahrenheit

Table 25: Monthly Averages of Simulated 60 Deg F Cold Water Pool in Millerton Lake (TAF) -Dry

Month	Existing Condition (2005)						Existing Condition (2005)					
	Existing Condition (TAF)	Change from Existing Condition						Future No Action (2030)				
		Alt1 (TAF)	Alt2 (TAF)	Alt3 (TAF)	Alt4 (TAF)		No Action Alt (cfs)	Alt1 (TAF)	Alt2 (TAF)	Alt3 (TAF)	Alt4 (TAF)	
Oct	41	88 (215%)	88 (215%)	69 (170%)	132 (325%)	0 (-1%)	40	71 (178%)	73 (183%)	70 (176%)	135 (338%)	0 (-1%)
Nov	122	34 (28%)	34 (28%)	17 (14%)	96 (78%)	-19 (-15%)	122	16 (13%)	18 (14%)	17 (14%)	94 (76%)	-19 (-15%)
Dec	242	105 (43%)	103 (43%)	105 (43%)	105 (43%)	-12 (-5%)	224	122 (54%)	122 (54%)	122 (55%)	122 (55%)	-12 (-5%)
Jan	276	70 (25%)	69 (25%)	70 (25%)	70 (25%)	-36 (-13%)	245	102 (41%)	102 (41%)	102 (41%)	102 (41%)	-36 (-15%)
Feb	300	46 (15%)	45 (15%)	46 (15%)	46 (15%)	-50 (-17%)	262	84 (32%)	84 (32%)	84 (32%)	84 (32%)	-50 (-19%)
Mar	308	15 (5%)	13 (4%)	15 (5%)	18 (6%)	-67 (-22%)	273	50 (18%)	50 (18%)	50 (18%)	52 (19%)	-67 (-25%)
Apr	293	-33 (-11%)	-35 (-12%)	-35 (-12%)	-31 (-10%)	-86 (-29%)	262	-2 (-1%)	-2 (-1%)	-3 (-1%)	1 (0%)	-86 (-33%)
May	297	-64 (-22%)	-66 (-22%)	-66 (-22%)	-65 (-22%)	-90 (-30%)	270	-38 (-14%)	-38 (-14%)	-39 (-14%)	-39 (-14%)	-90 (-33%)
Jun	197	27 (14%)	26 (13%)	25 (13%)	15 (7%)	-27 (-14%)	181	42 (24%)	43 (24%)	41 (23%)	27 (15%)	-27 (-15%)
Jul	103	118 (114%)	117 (113%)	115 (111%)	79 (76%)	17 (16%)	99	120 (121%)	120 (121%)	119 (120%)	76 (77%)	17 (17%)
Aug	69	91 (132%)	91 (131%)	84 (121%)	79 (113%)	-6 (-8%)	68	86 (126%)	87 (128%)	85 (125%)	74 (109%)	-6 (-9%)
Sep	47	61 (128%)	61 (128%)	58 (122%)	111 (234%)	-12 (-26%)	46	60 (129%)	60 (130%)	59 (127%)	109 (235%)	-12 (-27%)

Notes: W2 reservoir temperature simulation

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, Deg F = Degrees Fahrenheit

Table 26: Monthly Averages of Simulated 52 Deg F Cold Water Pool in Temp Flat Reservoir (TAF) -All Years

Month	Existing Condition (2005)						Future No Action (2030)					
	Existing Condition (TAF)	Change from Existing Condition					No Action Alt (TAF)	Change from No Action				
		Alt1 (TAF)	Alt2 (TAF)	Alt3 (TAF)	Alt4 (TAF)	Alt5 (TAF)		Alt1 (TAF)	Alt2 (TAF)	Alt3 (TAF)	Alt4 (TAF)	Alt5 (TAF)
Oct	0	60	60	60	121	47	0	60	60	60	118	47
Nov	0	58	58	58	94	45	0	58	58	58	93	45
Dec	0	58	58	58	83	53	0	58	58	58	83	53
Jan	0	182	182	186	197	129	0	185	184	186	198	129
Feb	0	334	335	335	399	251	0	334	334	335	396	251
Mar	0	459	459	449	531	360	0	448	448	449	522	360
Apr	0	501	501	470	571	378	0	469	471	470	546	378
May	0	447	449	398	555	311	0	400	401	398	520	311
Jun	0	277	278	247	490	201	0	250	250	247	461	201
Jul	0	135	135	122	397	103	0	124	124	122	377	103
Aug	0	78	78	75	343	61	0	75	75	75	325	61
Sep	0	64	64	63	213	49	0	63	64	63	201	49

Notes: W2 reservoir temperature simulation

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, Deg F = Degrees Fahrenheit

Table 27: Monthly Averages of Simulated 52 Deg F Cold Water Pool in Temp Flat Reservoir (TAF) -Wet

Month	Existing Condition (2005)						Future No Action (2030)					
	Existing Condition (TAF)	Change from Existing Condition					No Action Alt (TAF)	Change from No Action				
		Alt1 (TAF)	Alt2 (TAF)	Alt3 (TAF)	Alt4 (TAF)	Alt5 (TAF)		Alt1 (TAF)	Alt2 (TAF)	Alt3 (TAF)	Alt4 (TAF)	Alt5 (TAF)
Oct	0	58	59	58	130	45	0	59	59	58	125	45
Nov	0	56	56	56	96	41	0	56	56	56	95	41
Dec	0	56	56	57	85	54	0	58	57	57	85	54
Jan	0	277	278	285	317	206	0	283	281	285	317	206
Feb	0	545	549	543	636	426	0	539	539	543	627	426
Mar	0	728	729	708	807	580	0	707	707	708	793	580
Apr	0	809	809	755	876	623	0	753	754	755	833	623
May	0	792	793	704	890	583	0	705	704	704	836	583
Jun	0	534	534	478	776	427	0	482	480	478	736	427
Jul	0	239	238	213	590	200	0	216	215	213	562	200
Aug	0	103	103	95	530	93	0	95	95	95	500	93
Sep	0	69	68	65	340	64	0	66	66	65	314	0

Notes: W2 reservoir temperature simulation

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, Deg F = Degrees Fahrenheit

Table 28: Monthly Averages of Simulated 52 Deg F Cold Water Pool in Temp Flat Reservoir (TAF) -Normal-Wet

Month	Existing Condition (2005)						Future No Action (2030)					
	Existing Condition (TAF)	Change from Existing Condition					No Action Alt (TAF)	Change from No Action				
		Alt1 (TAF)	Alt2 (TAF)	Alt3 (TAF)	Alt4 (TAF)	Alt5 (TAF)		Alt1 (TAF)	Alt2 (TAF)	Alt3 (TAF)	Alt4 (TAF)	Alt5 (TAF)
Oct	0	62	62	60	109	47	0	61	61	60	108	47
Nov	0	60	60	59	91	46	0	60	60	59	91	46
Dec	0	61	61	60	80	54	0	61	61	60	81	54
Jan	0	140	138	137	129	80	0	137	136	137	137	80
Feb	0	214	214	211	263	140	0	210	210	211	274	140
Mar	0	285	286	279	357	214	0	278	280	279	356	214
Apr	0	293	295	277	373	204	0	275	280	277	360	204
May	0	239	243	219	359	134	0	221	225	219	338	134
Jun	0	130	134	124	323	69	0	125	129	124	296	69
Jul	0	76	77	74	269	48	0	75	76	74	253	48
Aug	0	63	64	64	211	42	0	64	65	64	199	42
Sep	0	61	61	62	127	39	0	62	62	62	120	39

Notes: W2 reservoir temperature simulation

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, Deg F = Degrees Fahrenheit

Table 29: Monthly Averages of Simulated 52 Deg F Cold Water Pool in Temp Flat Reservoir (TAF) -Normal-Dry

Month	Existing Condition (2005)						Future No Action (2030)					
	Existing Condition (TAF)	Change from Existing Condition					No Action Alt (TAF)	Change from No Action				
		Alt1 (TAF)	Alt2 (TAF)	Alt3 (TAF)	Alt4 (TAF)	Alt5 (TAF)		Alt1 (TAF)	Alt2 (TAF)	Alt3 (TAF)	Alt4 (TAF)	Alt5 (TAF)
Oct	0	62	62	60	109	47	0	61	61	60	108	47
Nov	0	60	60	59	91	46	0	60	60	59	91	46
Dec	0	61	61	60	80	54	0	61	61	60	81	54
Jan	0	140	138	137	129	80	0	137	136	137	137	80
Feb	0	214	214	211	263	140	0	210	210	211	274	140
Mar	0	285	286	279	357	214	0	278	280	279	356	214
Apr	0	293	295	277	373	204	0	275	280	277	360	204
May	0	239	243	219	359	134	0	221	225	219	338	134
Jun	0	130	134	124	323	69	0	125	129	124	296	69
Jul	0	76	77	74	269	48	0	75	76	74	253	48
Aug	0	63	64	64	211	42	0	64	65	64	199	42
Sep	0	61	61	62	127	39	0	62	62	62	120	39

Notes: W2 reservoir temperature simulation

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, Deg F = Degrees Fahrenheit

Table 30: Monthly Averages of Simulated 52 Deg F Cold Water Pool in Temp Flat Reservoir (TAF) -Dry

Month	Existing Condition (2005)						Existing Condition (2005)					
	Existing Condition (TAF)	Change from Existing Condition						Future No Action (2030)				
		Alt1 (TAF)	Alt2 (TAF)	Alt3 (TAF)	Alt4 (TAF)		No Action Alt (cfs)	Alt1 (TAF)	Alt2 (TAF)	Alt3 (TAF)	Alt4 (TAF)	
Oct	0	62	62	60	120	43	0	60	61	60	109	43
Nov	0	60	60	59	93	42	0	58	59	59	91	42
Dec	0	58	57	57	83	54	0	57	57	57	80	54
Jan	0	160	159	168	164	102	0	168	167	168	160	102
Feb	0	224	228	230	305	152	0	229	231	230	291	152
Mar	0	278	279	267	368	182	0	264	267	267	350	182
Apr	0	295	294	274	381	170	0	271	276	274	359	170
May	0	248	245	226	355	121	0	221	227	226	335	121
Jun	0	142	141	131	304	72	0	129	132	131	291	72
Jul	0	84	84	83	250	53	0	83	84	83	243	53
Aug	0	73	73	74	196	47	0	74	74	74	193	47
Sep	0	70	71	71	126	45	0	71	72	71	125	45

Notes: W2 reservoir temperature simulation

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, Deg F = Degrees Fahrenheit

Table 31: Monthly Averages of Simulated 60 Deg F Cold Water Pool in Temp Flat Reservoir (TAF) -All Years

Month	Existing Condition (2005)						Future No Action (2030)					
	Existing Condition (TAF)	Change from Existing Condition					No Action Alt (TAF)	Change from No Action				
		Alt1 (TAF)	Alt2 (TAF)	Alt3 (TAF)	Alt4 (TAF)	Alt5 (TAF)		Alt1 (TAF)	Alt2 (TAF)	Alt3 (TAF)	Alt4 (TAF)	Alt5 (TAF)
Oct	0	200	202	164	292	137	0	163	166	164	274	137
Nov	0	239	239	207	322	171	0	202	203	207	310	171
Dec	0	526	525	486	625	394	0	485	489	486	608	394
Jan	0	625	622	580	703	479	0	575	578	580	677	479
Feb	0	671	669	626	751	514	0	620	623	626	721	514
Mar	0	697	695	656	777	538	0	651	653	656	750	538
Apr	0	706	704	652	779	531	0	648	650	652	742	531
May	0	727	726	656	796	528	0	654	656	656	751	528
Jun	0	730	729	658	807	535	0	659	662	658	765	535
Jul	0	615	617	554	725	471	0	562	564	554	699	471
Aug	0	428	429	363	577	318	0	370	373	363	552	318
Sep	0	280	282	229	403	193	0	234	237	229	379	193

Notes: W2 reservoir temperature simulation

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, Deg F = Degrees Fahrenheit

Table 32: Monthly Averages of Simulated 60 Deg F Cold Water Pool in Temp Flat Reservoir (TAF) -Wet

Month	Existing Condition (2005)						Future No Action (2030)					
	Existing Condition (TAF)	Change from Existing Condition					No Action Alt (TAF)	Change from No Action				
		Alt1 (TAF)	Alt2 (TAF)	Alt3 (TAF)	Alt4 (TAF)	Alt5 (TAF)		Alt1 (TAF)	Alt2 (TAF)	Alt3 (TAF)	Alt4 (TAF)	Alt5 (TAF)
Oct	0	167	171	128	280	97	0	124	127	128	261	97
Nov	0	248	252	212	339	145	0	198	199	212	324	145
Dec	0	525	526	485	664	355	0	486	493	485	650	355
Jan	0	703	698	664	778	515	0	661	665	664	760	515
Feb	0	813	809	775	889	611	0	770	773	775	868	611
Mar	0	905	901	868	981	697	0	865	867	868	960	697
Apr	0	967	962	896	1036	732	0	892	894	896	987	732
May	0	1030	1025	915	1079	761	0	912	914	915	1013	761
Jun	0	1135	1131	1015	1173	860	0	1014	1016	1015	1109	860
Jul	0	1141	1139	1060	1171	922	0	1059	1060	1060	1140	922
Aug	0	896	892	770	1005	656	0	769	773	770	962	656
Sep	0	590	591	475	751	395	0	475	483	475	697	0

Notes: W2 reservoir temperature simulation

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, Deg F = Degrees Fahrenheit

Table 33: Monthly Averages of Simulated 60 Deg F Cold Water Pool in Temp Flat Reservoir (TAF) -Normal-Wet

Month	Existing Condition (2005)						Future No Action (2030)					
	Existing Condition (TAF)	Change from Existing Condition					No Action Alt (TAF)	Change from No Action				
		Alt1 (TAF)	Alt2 (TAF)	Alt3 (TAF)	Alt4 (TAF)	Alt5 (TAF)		Alt1 (TAF)	Alt2 (TAF)	Alt3 (TAF)	Alt4 (TAF)	Alt5 (TAF)
Oct	0	166	167	103	241	84	0	110	113	103	231	84
Nov	0	206	202	140	278	109	0	144	144	140	278	109
Dec	0	450	450	396	539	333	0	397	400	396	516	333
Jan	0	476	476	415	573	341	0	412	415	415	536	341
Feb	0	477	477	413	574	331	0	409	412	413	533	331
Mar	0	473	472	411	569	320	0	408	411	411	530	320
Apr	0	464	463	406	557	297	0	406	407	406	516	297
May	0	474	474	419	578	286	0	422	424	419	535	286
Jun	0	407	408	359	537	216	0	363	368	359	497	216
Jul	0	224	227	191	409	96	0	196	201	191	387	96
Aug	0	105	108	97	290	64	0	99	101	97	272	64
Sep	0	86	87	85	178	57	0	85	86	85	165	57

Notes: W2 reservoir temperature simulation

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, Deg F = Degrees Fahrenheit

Table 34: Monthly Averages of Simulated 60 Deg F Cold Water Pool in Temp Flat Reservoir (TAF) -Normal-Dry

Month	Existing Condition (2005)						Future No Action (2030)					
	Existing Condition (TAF)	Change from Existing Condition					No Action Alt (TAF)	Change from No Action				
		Alt1 (TAF)	Alt2 (TAF)	Alt3 (TAF)	Alt4 (TAF)	Alt5 (TAF)		Alt1 (TAF)	Alt2 (TAF)	Alt3 (TAF)	Alt4 (TAF)	Alt5 (TAF)
Oct	0	166	167	103	241	84	0	110	113	103	231	84
Nov	0	206	202	140	278	109	0	144	144	140	278	109
Dec	0	450	450	396	539	333	0	397	400	396	516	333
Jan	0	476	476	415	573	341	0	412	415	415	536	341
Feb	0	477	477	413	574	331	0	409	412	413	533	331
Mar	0	473	472	411	569	320	0	408	411	411	530	320
Apr	0	464	463	406	557	297	0	406	407	406	516	297
May	0	474	474	419	578	286	0	422	424	419	535	286
Jun	0	407	408	359	537	216	0	363	368	359	497	216
Jul	0	224	227	191	409	96	0	196	201	191	387	96
Aug	0	105	108	97	290	64	0	99	101	97	272	64
Sep	0	86	87	85	178	57	0	85	86	85	165	57

Notes: W2 reservoir temperature simulation

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, Deg F = Degrees Fahrenheit

Table 35: Monthly Averages of Simulated 60 Deg F Cold Water Pool in Temp Flat Reservoir (TAF) -Dry

Month	Existing Condition (2005)						Existing Condition (2005)					
	Existing Condition (TAF)	Change from Existing Condition						Future No Action (2030)				
		Alt1 (TAF)	Alt2 (TAF)	Alt3 (TAF)	Alt4 (TAF)		No Action Alt (cfs)	Alt1 (TAF)	Alt2 (TAF)	Alt3 (TAF)	Alt4 (TAF)	
Oct	0	147	143	117	229	68	0	111	115	117	188	68
Nov	0	150	142	132	229	101	0	129	130	132	191	101
Dec	0	402	395	342	498	217	0	338	345	342	472	217
Jan	0	420	412	357	518	230	0	353	358	357	481	230
Feb	0	421	414	359	521	225	0	355	361	359	483	225
Mar	0	417	410	362	515	226	0	359	364	362	483	226
Apr	0	416	409	364	506	217	0	362	366	364	477	217
May	0	434	429	388	528	208	0	385	389	388	501	208
Jun	0	346	341	308	458	153	0	306	309	308	436	153
Jul	0	193	191	172	347	90	0	171	173	172	333	90
Aug	0	108	107	102	251	72	0	102	103	102	244	72
Sep	0	91	92	90	164	64	0	90	91	90	161	64

Notes: W2 reservoir temperature simulation

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, Deg F = Degrees Fahrenheit

Table 36: Monthly Averages of Simulated 52 Deg F Cold Water Pool in Millerton Lake and Temp Flat Reservoir (TAF) -All Years

Month	Existing Condition (2005)						Future No Action (2030)					
	Existing Condition (TAF)	Change from Existing Condition					No Action Alt (TAF)	Change from No Action				
		Alt1 (TAF)	Alt2 (TAF)	Alt3 (TAF)	Alt4 (TAF)	Alt5 (TAF)		Alt1 (TAF)	Alt2 (TAF)	Alt3 (TAF)	Alt4 (TAF)	Alt5 (TAF)
Oct	8	57 (757%)	57 (761%)	57 (757%)	210 (2798%)	41 (542%)	7	57 (806%)	58 (809%)	57 (803%)	202 (2840%)	41 (571%)
Nov	6	55 (956%)	55 (961%)	54 (951%)	148 (2602%)	40 (696%)	5	55 (1007%)	55 (1010%)	55 (1003%)	145 (2663%)	40 (730%)
Dec	24	35 (142%)	35 (141%)	35 (141%)	99 (406%)	36 (149%)	24	35 (150%)	35 (149%)	35 (149%)	91 (383%)	36 (153%)
Jan	238	-14 (-6%)	-16 (-7%)	-18 (-7%)	143 (60%)	-14 (-6%)	228	-10 (-4%)	-10 (-5%)	-7 (-3%)	135 (59%)	-14 (-6%)
Feb	312	120 (38%)	117 (37%)	114 (36%)	284 (91%)	73 (23%)	294	130 (44%)	130 (44%)	132 (45%)	292 (99%)	73 (25%)
Mar	279	294 (105%)	294 (105%)	283 (102%)	410 (147%)	216 (77%)	270	291 (108%)	291 (108%)	292 (108%)	405 (150%)	216 (80%)
Apr	224	419 (187%)	419 (187%)	386 (172%)	505 (225%)	286 (128%)	208	402 (194%)	404 (195%)	403 (194%)	492 (237%)	286 (138%)
May	146	454 (311%)	455 (312%)	405 (277%)	529 (362%)	290 (199%)	132	420 (318%)	421 (319%)	418 (317%)	500 (379%)	290 (220%)
Jun	85	317 (372%)	321 (376%)	287 (336%)	449 (526%)	197 (231%)	81	295 (365%)	297 (367%)	291 (360%)	422 (521%)	197 (244%)
Jul	40	153 (383%)	155 (388%)	138 (346%)	375 (939%)	99 (248%)	37	146 (396%)	147 (396%)	141 (381%)	358 (966%)	99 (267%)
Aug	19	80 (429%)	80 (429%)	74 (395%)	336 (1805%)	47 (253%)	17	76 (434%)	76 (439%)	75 (430%)	321 (1846%)	47 (271%)
Sep	11	61 (567%)	62 (568%)	61 (565%)	292 (2698%)	40 (370%)	10	62 (606%)	62 (611%)	62 (604%)	281 (2748%)	40 (392%)

Notes: W2 reservoir temperature simulation

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, Deg F = Degrees Fahrenheit

Table 37: Monthly Averages of Simulated 52 Deg F Cold Water Pool in Millerton Lake and Temp Flat Reservoir (TAF) -Wet

Month	Existing Condition (2005)						Future No Action (2030)					
	Existing Condition (TAF)	Change from Existing Condition					No Action Alt (TAF)	Change from No Action				
		Alt1 (TAF)	Alt2 (TAF)	Alt3 (TAF)	Alt4 (TAF)	Alt5 (TAF)		Alt1 (TAF)	Alt2 (TAF)	Alt3 (TAF)	Alt4 (TAF)	Alt5 (TAF)
Oct	7	54 (745%)	55 (755%)	55 (766%)	231 (3198%)	38 (530%)	7	56 (826%)	56 (828%)	56 (826%)	222 (3285%)	38 (566%)
Nov	5	53 (1127%)	53 (1142%)	53 (1144%)	161 (3450%)	37 (792%)	4	54 (1216%)	54 (1216%)	54 (1214%)	157 (3542%)	37 (836%)
Dec	37	20 (52%)	20 (53%)	21 (56%)	79 (211%)	30 (80%)	35	24 (68%)	23 (66%)	24 (67%)	84 (241%)	30 (86%)
Jan	304	29 (10%)	29 (10%)	37 (12%)	229 (75%)	46 (15%)	302	37 (12%)	35 (12%)	40 (13%)	208 (69%)	46 (15%)
Feb	381	289 (76%)	291 (76%)	284 (75%)	477 (125%)	243 (64%)	374	288 (77%)	287 (77%)	291 (78%)	469 (125%)	243 (65%)
Mar	348	524 (150%)	524 (150%)	501 (144%)	642 (184%)	426 (122%)	357	492 (138%)	492 (138%)	492 (138%)	615 (172%)	426 (119%)
Apr	285	692 (243%)	691 (242%)	634 (222%)	772 (271%)	514 (180%)	274	645 (236%)	646 (236%)	645 (236%)	734 (268%)	514 (188%)
May	188	779 (414%)	779 (414%)	689 (366%)	839 (446%)	563 (299%)	172	707 (411%)	706 (410%)	705 (410%)	780 (453%)	563 (327%)
Jun	110	567 (515%)	569 (516%)	520 (472%)	699 (635%)	455 (413%)	109	528 (484%)	526 (483%)	521 (479%)	650 (597%)	455 (418%)
Jul	36	276 (774%)	276 (775%)	251 (704%)	554 (1556%)	243 (682%)	35	259 (738%)	258 (734%)	251 (715%)	527 (1501%)	243 (692%)
Aug	12	109 (884%)	107 (870%)	89 (721%)	519 (4208%)	87 (703%)	12	90 (737%)	91 (749%)	89 (733%)	489 (4030%)	87 (713%)
Sep	7	63 (895%)	62 (888%)	59 (846%)	457 (6513%)	59 (837%)	7	59 (855%)	60 (866%)	59 (856%)	430 (6201%)	0 (0%)

Notes: W2 reservoir temperature simulation

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, Deg F = Degrees Fahrenheit

Table 38: Monthly Averages of Simulated 52 Deg F Cold Water Pool in Millerton Lake and Temp Flat Reservoir (TAF) -Normal-Wet

Month	Existing Condition (2005)						Future No Action (2030)					
	Existing Condition (TAF)	Change from Existing Condition					No Action Alt (TAF)	Change from No Action				
		Alt1 (TAF)	Alt2 (TAF)	Alt3 (TAF)	Alt4 (TAF)	Alt5 (TAF)		Alt1 (TAF)	Alt2 (TAF)	Alt3 (TAF)	Alt4 (TAF)	Alt5 (TAF)
Oct	8	61 (772%)	61 (771%)	61 (763%)	184 (2309%)	40 (502%)	7	62 (853%)	62 (858%)	61 (845%)	186 (2558%)	40 (550%)
Nov	7	57 (835%)	57 (834%)	56 (826%)	131 (1925%)	40 (587%)	6	57 (916%)	57 (919%)	57 (908%)	133 (2130%)	40 (639%)
Dec	24	39 (165%)	39 (164%)	39 (163%)	99 (418%)	38 (162%)	23	39 (167%)	39 (168%)	39 (166%)	88 (374%)	38 (164%)
Jan	212	-49 (-23%)	-54 (-25%)	-60 (-29%)	94 (44%)	-78 (-37%)	194	-44 (-22%)	-43 (-22%)	-43 (-22%)	115 (59%)	-78 (-40%)
Feb	264	58 (22%)	46 (17%)	38 (14%)	189 (71%)	-26 (-10%)	241	61 (25%)	58 (24%)	61 (25%)	221 (92%)	-26 (-11%)
Mar	219	161 (73%)	161 (74%)	157 (72%)	269 (122%)	89 (41%)	204	171 (84%)	173 (85%)	173 (85%)	282 (138%)	89 (44%)
Apr	178	234 (131%)	236 (133%)	220 (123%)	326 (183%)	127 (71%)	165	231 (141%)	235 (143%)	234 (142%)	327 (199%)	127 (77%)
May	118	258 (219%)	262 (223%)	237 (201%)	343 (291%)	109 (93%)	111	244 (220%)	249 (225%)	244 (220%)	333 (301%)	109 (99%)
Jun	69	175 (256%)	181 (264%)	163 (238%)	300 (438%)	38 (56%)	65	168 (257%)	173 (265%)	166 (254%)	280 (428%)	38 (58%)
Jul	39	78 (201%)	82 (212%)	78 (201%)	247 (636%)	17 (43%)	37	83 (224%)	84 (229%)	80 (218%)	236 (641%)	17 (46%)
Aug	20	62 (316%)	63 (320%)	64 (326%)	203 (1035%)	25 (130%)	19	65 (351%)	66 (353%)	65 (349%)	194 (1043%)	25 (137%)
Sep	12	58 (504%)	59 (508%)	60 (521%)	178 (1530%)	28 (243%)	11	61 (549%)	61 (550%)	61 (549%)	178 (1605%)	28 (254%)

Notes: W2 reservoir temperature simulation

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, Deg F = Degrees Fahrenheit

Table 39: Monthly Averages of Simulated 52 Deg F Cold Water Pool in Millerton Lake and Temp Flat Reservoir (TAF) -Normal-Dry

Month	Existing Condition (2005)						Future No Action (2030)					
	Existing Condition (TAF)	Change from Existing Condition					No Action Alt (TAF)	Change from No Action				
		Alt1 (TAF)	Alt2 (TAF)	Alt3 (TAF)	Alt4 (TAF)	Alt5 (TAF)		Alt1 (TAF)	Alt2 (TAF)	Alt3 (TAF)	Alt4 (TAF)	Alt5 (TAF)
Oct	8	61 (772%)	61 (771%)	61 (763%)	184 (2309%)	40 (502%)	7	62 (853%)	62 (858%)	61 (845%)	186 (2558%)	40 (550%)
Nov	7	57 (835%)	57 (834%)	56 (826%)	131 (1925%)	40 (587%)	6	57 (916%)	57 (919%)	57 (908%)	133 (2130%)	40 (639%)
Dec	24	39 (165%)	39 (164%)	39 (163%)	99 (418%)	38 (162%)	23	39 (167%)	39 (168%)	39 (166%)	88 (374%)	38 (164%)
Jan	212	-49 (-23%)	-54 (-25%)	-60 (-29%)	94 (44%)	-78 (-37%)	194	-44 (-22%)	-43 (-22%)	-43 (-22%)	115 (59%)	-78 (-40%)
Feb	264	58 (22%)	46 (17%)	38 (14%)	189 (71%)	-26 (-10%)	241	61 (25%)	58 (24%)	61 (25%)	221 (92%)	-26 (-11%)
Mar	219	161 (73%)	161 (74%)	157 (72%)	269 (122%)	89 (41%)	204	171 (84%)	173 (85%)	173 (85%)	282 (138%)	89 (44%)
Apr	178	234 (131%)	236 (133%)	220 (123%)	326 (183%)	127 (71%)	165	231 (141%)	235 (143%)	234 (142%)	327 (199%)	127 (77%)
May	118	258 (219%)	262 (223%)	237 (201%)	343 (291%)	109 (93%)	111	244 (220%)	249 (225%)	244 (220%)	333 (301%)	109 (99%)
Jun	69	175 (256%)	181 (264%)	163 (238%)	300 (438%)	38 (56%)	65	168 (257%)	173 (265%)	166 (254%)	280 (428%)	38 (58%)
Jul	39	78 (201%)	82 (212%)	78 (201%)	247 (636%)	17 (43%)	37	83 (224%)	84 (229%)	80 (218%)	236 (641%)	17 (46%)
Aug	20	62 (316%)	63 (320%)	64 (326%)	203 (1035%)	25 (130%)	19	65 (351%)	66 (353%)	65 (349%)	194 (1043%)	25 (137%)
Sep	12	58 (504%)	59 (508%)	60 (521%)	178 (1530%)	28 (243%)	11	61 (549%)	61 (550%)	61 (549%)	178 (1605%)	28 (254%)

Notes: W2 reservoir temperature simulation

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, Deg F = Degrees Fahrenheit

Table 40: Monthly Averages of Simulated 52 Deg F Cold Water Pool in Millerton Lake and Temp Flat Reservoir (TAF) -Dry

Month	Existing Condition (2005)						Existing Condition (2005)					
	Existing Condition (TAF)	Change from Existing Condition						Future No Action (2030)				
		Alt1 (TAF)	Alt2 (TAF)	Alt3 (TAF)	Alt4 (TAF)		No Action Alt (cfs)	Alt1 (TAF)	Alt2 (TAF)	Alt3 (TAF)	Alt4 (TAF)	
Oct	8	58 (732%)	58 (730%)	57 (721%)	205 (2574%)	36 (457%)	8	57 (714%)	58 (719%)	57 (717%)	179 (2239%)	36 (455%)
Nov	7	56 (850%)	55 (849%)	55 (834%)	151 (2306%)	36 (553%)	7	54 (827%)	55 (833%)	54 (830%)	137 (2088%)	36 (550%)
Dec	22	37 (164%)	36 (163%)	36 (162%)	115 (515%)	37 (165%)	23	35 (154%)	35 (154%)	35 (154%)	90 (392%)	37 (161%)
Jan	228	-41 (-18%)	-47 (-21%)	-56 (-25%)	145 (64%)	-26 (-11%)	209	-37 (-18%)	-38 (-18%)	-37 (-18%)	112 (54%)	-26 (-12%)
Feb	270	7 (2%)	5 (2%)	1 (0%)	272 (101%)	-8 (-3%)	237	33 (14%)	34 (14%)	34 (14%)	269 (113%)	-8 (-3%)
Mar	224	145 (65%)	145 (65%)	134 (60%)	321 (143%)	65 (29%)	198	157 (79%)	160 (81%)	160 (81%)	317 (160%)	65 (33%)
Apr	194	232 (120%)	232 (120%)	213 (110%)	355 (183%)	88 (45%)	174	229 (131%)	234 (134%)	233 (133%)	346 (199%)	88 (50%)
May	142	260 (183%)	258 (181%)	239 (168%)	357 (251%)	86 (60%)	132	245 (185%)	251 (190%)	249 (189%)	346 (262%)	86 (65%)
Jun	87	205 (235%)	205 (235%)	195 (223%)	314 (359%)	47 (53%)	84	195 (232%)	200 (238%)	198 (236%)	302 (360%)	47 (56%)
Jul	55	108 (196%)	109 (198%)	110 (199%)	255 (461%)	22 (39%)	54	111 (207%)	113 (211%)	112 (209%)	248 (464%)	22 (40%)
Aug	30	86 (286%)	87 (288%)	92 (303%)	210 (693%)	25 (83%)	30	93 (313%)	93 (316%)	93 (314%)	206 (698%)	25 (85%)
Sep	17	79 (472%)	80 (476%)	83 (497%)	200 (1196%)	31 (184%)	16	83 (506%)	84 (509%)	84 (506%)	198 (1198%)	31 (187%)

Notes: W2 reservoir temperature simulation

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, Deg F = Degrees Fahrenheit

Table 41: Monthly Averages of Simulated 60 Deg F Cold Water Pool in Millerton Lake and Temp Flat Reservoir (TAF) -All Years

Month	Existing Condition (2005)						Future No Action (2030)					
	Existing Condition (TAF)	Change from Existing Condition					No Action Alt (TAF)	Change from No Action				
		Alt1 (TAF)	Alt2 (TAF)	Alt3 (TAF)	Alt4 (TAF)	Alt5 (TAF)		Alt1 (TAF)	Alt2 (TAF)	Alt3 (TAF)	Alt4 (TAF)	Alt5 (TAF)
Oct	42	292 (696%)	294 (701%)	242 (578%)	426 (1018%)	178 (426%)	41	244 (593%)	249 (607%)	243 (591%)	408 (993%)	178 (434%)
Nov	134	286 (214%)	284 (212%)	243 (182%)	428 (320%)	197 (147%)	135	236 (174%)	239 (177%)	242 (178%)	411 (303%)	197 (145%)
Dec	267	598 (224%)	595 (223%)	553 (207%)	706 (265%)	397 (149%)	257	563 (219%)	567 (221%)	563 (220%)	699 (272%)	397 (155%)
Jan	317	656 (207%)	652 (206%)	611 (193%)	735 (232%)	452 (142%)	296	627 (211%)	630 (213%)	632 (213%)	728 (246%)	452 (152%)
Feb	356	662 (186%)	659 (185%)	617 (173%)	743 (209%)	461 (130%)	333	633 (190%)	637 (191%)	640 (192%)	735 (221%)	461 (138%)
Mar	367	661 (180%)	656 (179%)	618 (168%)	743 (202%)	465 (127%)	352	629 (179%)	631 (179%)	633 (180%)	729 (207%)	465 (132%)
Apr	354	638 (180%)	633 (179%)	577 (163%)	714 (202%)	435 (123%)	329	600 (182%)	602 (183%)	602 (183%)	697 (212%)	435 (132%)
May	325	638 (196%)	634 (195%)	561 (173%)	710 (218%)	423 (130%)	295	591 (200%)	593 (201%)	591 (201%)	690 (234%)	423 (143%)
Jun	279	678 (243%)	677 (243%)	600 (215%)	747 (268%)	461 (165%)	262	621 (237%)	623 (238%)	617 (235%)	717 (274%)	461 (176%)
Jul	178	671 (376%)	671 (377%)	600 (336%)	745 (418%)	473 (265%)	174	615 (353%)	618 (355%)	604 (347%)	714 (411%)	473 (272%)
Aug	91	534 (584%)	536 (587%)	458 (501%)	645 (706%)	372 (407%)	90	473 (528%)	479 (534%)	460 (513%)	621 (692%)	372 (415%)
Sep	59	376 (636%)	380 (642%)	314 (531%)	522 (882%)	246 (416%)	58	324 (560%)	330 (570%)	315 (544%)	499 (862%)	246 (425%)

Notes: W2 reservoir temperature simulation

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, Deg F = Degrees Fahrenheit

Table 42: Monthly Averages of Simulated 60 Deg F Cold Water Pool in Millerton Lake and Temp Flat Reservoir (TAF) -Wet

Month	Existing Condition (2005)						Future No Action (2030)					
	Existing Condition (TAF)	Change from Existing Condition					No Action Alt (TAF)	Change from No Action				
		Alt1 (TAF)	Alt2 (TAF)	Alt3 (TAF)	Alt4 (TAF)	Alt5 (TAF)		Alt1 (TAF)	Alt2 (TAF)	Alt3 (TAF)	Alt4 (TAF)	Alt5 (TAF)
Oct	42	254 (610%)	258 (618%)	205 (492%)	410 (985%)	138 (331%)	41	205 (503%)	211 (520%)	206 (506%)	391 (962%)	138 (339%)
Nov	170	279 (165%)	279 (164%)	237 (139%)	437 (257%)	168 (99%)	172	219 (127%)	222 (129%)	234 (136%)	414 (240%)	168 (97%)
Dec	285	588 (206%)	587 (206%)	544 (191%)	730 (256%)	347 (122%)	279	552 (198%)	559 (201%)	551 (198%)	721 (259%)	347 (125%)
Jan	359	694 (193%)	688 (191%)	655 (182%)	770 (214%)	467 (130%)	346	665 (192%)	669 (193%)	668 (193%)	764 (220%)	467 (135%)
Feb	413	749 (182%)	743 (180%)	711 (172%)	825 (200%)	537 (130%)	403	715 (178%)	719 (178%)	721 (179%)	814 (202%)	537 (133%)
Mar	425	816 (192%)	809 (191%)	779 (183%)	894 (210%)	609 (144%)	431	768 (178%)	771 (179%)	772 (179%)	866 (201%)	609 (141%)
Apr	417	867 (208%)	859 (206%)	789 (189%)	938 (225%)	631 (151%)	405	797 (197%)	800 (198%)	801 (198%)	896 (221%)	631 (156%)
May	355	932 (262%)	926 (260%)	811 (228%)	991 (279%)	662 (186%)	329	836 (254%)	838 (255%)	837 (255%)	944 (287%)	662 (201%)
Jun	371	1011 (273%)	1006 (271%)	878 (237%)	1051 (284%)	730 (197%)	353	899 (255%)	901 (255%)	896 (254%)	994 (282%)	730 (207%)
Jul	305	1103 (361%)	1097 (359%)	994 (326%)	1121 (367%)	858 (281%)	301	1004 (333%)	1006 (334%)	998 (331%)	1077 (357%)	858 (285%)
Aug	129	1015 (784%)	1011 (781%)	883 (682%)	1079 (833%)	766 (592%)	127	892 (703%)	899 (709%)	886 (698%)	1041 (821%)	766 (604%)
Sep	78	741 (947%)	741 (947%)	613 (784%)	878 (1123%)	522 (668%)	77	620 (810%)	629 (821%)	615 (803%)	832 (1086%)	0 (0%)

Notes: W2 reservoir temperature simulation

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, Deg F = Degrees Fahrenheit

Table 43: Monthly Averages of Simulated 60 Deg F Cold Water Pool in Millerton Lake and Temp Flat Reservoir (TAF) -Normal-Wet

Month	Existing Condition (2005)						Future No Action (2030)					
	Existing Condition (TAF)	Change from Existing Condition					No Action Alt (TAF)	Change from No Action				
		Alt1 (TAF)	Alt2 (TAF)	Alt3 (TAF)	Alt4 (TAF)	Alt5 (TAF)		Alt1 (TAF)	Alt2 (TAF)	Alt3 (TAF)	Alt4 (TAF)	Alt5 (TAF)
Oct	36	252 (701%)	254 (705%)	172 (478%)	377 (1047%)	117 (325%)	36	183 (514%)	190 (533%)	172 (484%)	364 (1020%)	117 (328%)
Nov	130	246 (189%)	241 (185%)	167 (128%)	377 (290%)	119 (91%)	131	173 (132%)	177 (135%)	165 (126%)	373 (284%)	119 (90%)
Dec	241	543 (226%)	542 (225%)	485 (201%)	643 (267%)	340 (141%)	233	496 (213%)	500 (215%)	493 (212%)	626 (269%)	340 (146%)
Jan	279	544 (195%)	543 (195%)	481 (173%)	641 (230%)	322 (116%)	257	499 (194%)	503 (195%)	502 (195%)	623 (242%)	322 (125%)
Feb	298	524 (176%)	522 (175%)	457 (153%)	622 (208%)	296 (99%)	273	479 (175%)	482 (177%)	483 (177%)	603 (221%)	296 (108%)
Mar	307	501 (163%)	497 (162%)	435 (141%)	598 (195%)	271 (88%)	285	456 (160%)	459 (161%)	457 (160%)	578 (203%)	271 (95%)
Apr	301	438 (146%)	434 (144%)	375 (124%)	534 (177%)	218 (72%)	278	401 (144%)	403 (145%)	398 (143%)	515 (185%)	218 (78%)
May	304	390 (129%)	389 (128%)	333 (110%)	491 (162%)	180 (59%)	281	361 (129%)	363 (129%)	356 (127%)	472 (168%)	180 (64%)
Jun	207	406 (197%)	407 (197%)	357 (173%)	515 (249%)	187 (91%)	195	373 (191%)	377 (194%)	369 (189%)	491 (252%)	187 (96%)
Jul	105	333 (316%)	336 (319%)	297 (283%)	463 (440%)	119 (113%)	103	307 (298%)	313 (304%)	300 (292%)	441 (429%)	119 (116%)
Aug	70	189 (272%)	196 (281%)	167 (240%)	355 (510%)	54 (77%)	69	175 (256%)	181 (264%)	168 (245%)	340 (496%)	54 (78%)
Sep	48	131 (275%)	135 (283%)	126 (265%)	290 (611%)	39 (82%)	47	129 (275%)	132 (282%)	127 (271%)	277 (593%)	39 (83%)

Notes: W2 reservoir temperature simulation

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, Deg F = Degrees Fahrenheit

Table 44: Monthly Averages of Simulated 60 Deg F Cold Water Pool in Millerton Lake and Temp Flat Reservoir (TAF) -Normal-Dry

Month	Existing Condition (2005)						Future No Action (2030)					
	Existing Condition (TAF)	Change from Existing Condition					No Action Alt (TAF)	Change from No Action				
		Alt1 (TAF)	Alt2 (TAF)	Alt3 (TAF)	Alt4 (TAF)	Alt5 (TAF)		Alt1 (TAF)	Alt2 (TAF)	Alt3 (TAF)	Alt4 (TAF)	Alt5 (TAF)
Oct	36	252 (701%)	254 (705%)	172 (478%)	377 (1047%)	117 (325%)	36	183 (514%)	190 (533%)	172 (484%)	364 (1020%)	117 (328%)
Nov	130	246 (189%)	241 (185%)	167 (128%)	377 (290%)	119 (91%)	131	173 (132%)	177 (135%)	165 (126%)	373 (284%)	119 (90%)
Dec	241	543 (226%)	542 (225%)	485 (201%)	643 (267%)	340 (141%)	233	496 (213%)	500 (215%)	493 (212%)	626 (269%)	340 (146%)
Jan	279	544 (195%)	543 (195%)	481 (173%)	641 (230%)	322 (116%)	257	499 (194%)	503 (195%)	502 (195%)	623 (242%)	322 (125%)
Feb	298	524 (176%)	522 (175%)	457 (153%)	622 (208%)	296 (99%)	273	479 (175%)	482 (177%)	483 (177%)	603 (221%)	296 (108%)
Mar	307	501 (163%)	497 (162%)	435 (141%)	598 (195%)	271 (88%)	285	456 (160%)	459 (161%)	457 (160%)	578 (203%)	271 (95%)
Apr	301	438 (146%)	434 (144%)	375 (124%)	534 (177%)	218 (72%)	278	401 (144%)	403 (145%)	398 (143%)	515 (185%)	218 (78%)
May	304	390 (129%)	389 (128%)	333 (110%)	491 (162%)	180 (59%)	281	361 (129%)	363 (129%)	356 (127%)	472 (168%)	180 (64%)
Jun	207	406 (197%)	407 (197%)	357 (173%)	515 (249%)	187 (91%)	195	373 (191%)	377 (194%)	369 (189%)	491 (252%)	187 (96%)
Jul	105	333 (316%)	336 (319%)	297 (283%)	463 (440%)	119 (113%)	103	307 (298%)	313 (304%)	300 (292%)	441 (429%)	119 (116%)
Aug	70	189 (272%)	196 (281%)	167 (240%)	355 (510%)	54 (77%)	69	175 (256%)	181 (264%)	168 (245%)	340 (496%)	54 (78%)
Sep	48	131 (275%)	135 (283%)	126 (265%)	290 (611%)	39 (82%)	47	129 (275%)	132 (282%)	127 (271%)	277 (593%)	39 (83%)

Notes: W2 reservoir temperature simulation

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, Deg F = Degrees Fahrenheit

Table 45: Monthly Averages of Simulated 60 Deg F Cold Water Pool in Millerton Lake and Temp Flat Reservoir (TAF) -Dry

Month	Existing Condition (2005)						Existing Condition (2005)					
	Existing Condition (TAF)	Change from Existing Condition						Future No Action (2030)				
		Alt1 (TAF)	Alt2 (TAF)	Alt3 (TAF)	Alt4 (TAF)		No Action Alt (cfs)	Alt1 (TAF)	Alt2 (TAF)	Alt3 (TAF)	Alt4 (TAF)	
Oct	41	235 (576%)	231 (566%)	187 (458%)	361 (885%)	67 (165%)	40	182 (455%)	188 (469%)	187 (469%)	323 (810%)	67 (168%)
Nov	122	184 (151%)	176 (144%)	149 (122%)	325 (266%)	82 (67%)	122	145 (118%)	148 (121%)	148 (121%)	285 (233%)	82 (67%)
Dec	242	507 (210%)	498 (206%)	447 (185%)	603 (249%)	205 (85%)	224	461 (205%)	467 (208%)	464 (207%)	595 (265%)	205 (91%)
Jan	276	490 (177%)	481 (174%)	427 (155%)	589 (213%)	195 (70%)	245	454 (185%)	460 (187%)	458 (187%)	583 (238%)	195 (79%)
Feb	300	467 (156%)	458 (153%)	406 (135%)	567 (189%)	175 (58%)	262	439 (167%)	445 (170%)	443 (169%)	567 (216%)	175 (67%)
Mar	308	433 (140%)	423 (137%)	377 (122%)	532 (173%)	159 (52%)	273	409 (150%)	414 (152%)	412 (151%)	535 (196%)	159 (58%)
Apr	293	383 (131%)	374 (128%)	330 (113%)	475 (162%)	131 (45%)	262	359 (137%)	364 (139%)	361 (138%)	478 (183%)	131 (50%)
May	297	370 (124%)	363 (122%)	321 (108%)	463 (156%)	117 (40%)	270	347 (129%)	351 (130%)	349 (129%)	462 (171%)	117 (43%)
Jun	197	373 (189%)	367 (186%)	333 (169%)	472 (240%)	126 (64%)	181	349 (193%)	352 (195%)	349 (194%)	463 (256%)	126 (70%)
Jul	103	311 (301%)	307 (297%)	287 (277%)	426 (412%)	107 (103%)	99	291 (294%)	293 (296%)	291 (294%)	408 (412%)	107 (108%)
Aug	69	199 (287%)	198 (285%)	186 (268%)	330 (475%)	66 (96%)	68	188 (276%)	190 (279%)	187 (275%)	318 (467%)	66 (97%)
Sep	47	152 (320%)	152 (321%)	148 (312%)	275 (580%)	52 (109%)	46	150 (324%)	151 (326%)	149 (322%)	270 (582%)	52 (111%)

Notes: W2 reservoir temperature simulation

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, Deg F = Degrees Fahrenheit

Average Simulated Friant-Kern Canal at Friant Dam Deg. F
Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					48	48	50	51	55	57	62	65
1981	64	60	56	52	50	49	50	53	58	65	70	68
1982	62	59	55	50	47	47	48	51	54	58	63	64
1983	62	59	55	50	48	48	51	57	51	54	60	63
1984	64	62	57	51	48	48	50	54	57	63	67	68
1985	64	59	54	51	49	48	50	53	56	64	70	66
1986	63	58	54	50	49	48	49	51	55	59	64	66
1987	63	60	56	52	50	49	50	52	56	63	69	68
1988	66	61	54	49	48	49	50	52	57	65	71	69
1989	65	56	55	49	48	50	51	53	58	65	70	68
1990	64	59	55	51	49	50	51	52	60	67	71	68
1991	65	48	53	50	52	53	54	58	59	64	69	67
1992	66	60	54	50	49	50	50	52	58	67	71	68
1993	66	61	55	49	47	48	50	53	54	58	63	65
1994	64	61	56	52	50	49	51	53	56	64	70	67
1995	63	57	52	49	46	47	50	52	54	56	61	65
1996	65	62	58	54	49	48	51	54	57	62	68	68
1997	65	59	56	48	48	48	50	55	58	64	68	68
1998	64	60	56	51	48	49	49	53	55	57	62	66
1999	64	59	55	51	48	48	50	54	57	62	67	68
2000	66	62	57	53	50	49	51	55	57	62	68	68
2001	65	59	54	52	51	50	51	54	58	65	70	68
2002	65	61	56	51	49	50	52	53	57	64	70	69
2003	65	61	57	52	50	50	53	55	57	62	69	68

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated Friant-Kern Canal at Friant Dam Deg. F
Alternative1 (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					53	53	52	50	52	54	54	56
1981	57	57	54	52	52	53	53	53	54	55	58	64
1982	65	61	57	53	52	52	51	49	50	52	54	56
1983	57	57	54	52	50	50	50	51	53	54	54	53
1984	54	56	55	53	52	52	52	54	53	53	55	57
1985	59	58	55	52	51	52	52	52	52	54	58	63
1986	64	61	56	54	54	53	51	48	52	53	54	55
1987	57	57	55	52	52	52	52	52	53	54	57	62
1988	64	62	57	53	52	52	52	51	51	54	60	63
1989	64	62	57	53	52	52	52	52	52	55	61	63
1990	64	62	57	54	53	52	52	51	51	55	60	63
1991	64	61	56	53	53	54	55	57	56	58	61	63
1992	64	63	57	54	53	53	52	52	52	55	62	64
1993	65	63	58	54	53	54	52	50	51	53	56	58
1994	60	60	56	53	53	53	52	52	52	54	58	63
1995	64	60	55	53	53	53	51	49	51	57	57	56
1996	57	57	57	55	54	53	52	54	56	55	56	57
1997	59	58	56	53	51	49	49	52	53	54	55	57
1998	59	59	56	54	54	53	52	51	52	59	58	57
1999	57	57	55	52	52	52	52	53	53	55	57	59
2000	61	62	58	56	56	55	53	53	54	56	59	63
2001	65	61	57	55	54	54	53	52	54	56	61	65
2002	65	63	58	55	54	55	54	52	53	55	60	64
2003	65	63	59	56	56	56	55	53	54	57	60	64

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Change in Average Simulated Friant-Kern Canal at Friant Dam Deg. F
Alternative1 (2005) - Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					5	4	2	-1	-3	-3	-8	-9
1981	-7	-3	-1	0	2	3	2	0	-4	-10	-11	-4
1982	2	2	3	4	5	5	3	-2	-4	-5	-9	-9
1983	-5	-3	-1	1	2	2	-1	-6	3	1	-6	-10
1984	-10	-6	-2	2	4	4	2	0	-4	-10	-12	-11
1985	-5	-1	1	2	3	3	2	0	-4	-10	-12	-2
1986	1	3	2	4	5	5	2	-3	-3	-6	-10	-11
1987	-7	-3	-1	0	2	3	2	0	-3	-9	-12	-6
1988	-2	2	3	4	4	4	2	-1	-6	-11	-11	-6
1989	-1	7	3	4	4	3	1	-1	-6	-10	-9	-5
1990	-1	2	3	3	3	3	2	-1	-9	-12	-11	-6
1991	-1	13	3	3	1	0	0	-1	-3	-6	-8	-4
1992	-2	3	3	4	3	3	2	0	-6	-12	-9	-4
1993	-1	2	3	5	7	6	1	-3	-2	-4	-7	-7
1994	-4	-1	0	2	2	3	2	-1	-4	-9	-12	-3
1995	1	3	3	4	6	6	1	-4	-3	1	-4	-9
1996	-9	-5	-2	1	5	5	1	0	-2	-6	-12	-11
1997	-6	-1	0	5	3	1	-2	-3	-5	-10	-13	-12
1998	-5	-1	0	3	5	4	3	-2	-4	1	-4	-9
1999	-7	-2	-1	1	4	4	2	-1	-3	-7	-10	-8
2000	-5	0	1	3	6	6	2	-1	-3	-6	-9	-5
2001	0	2	2	3	3	4	2	-2	-4	-9	-9	-3
2002	0	2	3	4	5	5	3	0	-4	-9	-10	-5
2003	0	2	2	4	6	6	3	-2	-3	-5	-8	-4

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Percent Change in Average Simulated Friant-Kern Canal at Friant Dam Deg. F
From Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					10%	9%	4%	-2%	-5%	-5%	-12%	-14%
1981	-12%	-6%	-2%	0%	4%	7%	5%	0%	-8%	-15%	-16%	-7%
1982	3%	4%	5%	8%	10%	11%	6%	-4%	-8%	-9%	-14%	-14%
1983	-8%	-4%	-2%	3%	5%	4%	-3%	-11%	6%	2%	-9%	-16%
1984	-15%	-10%	-4%	4%	8%	8%	3%	-1%	-7%	-15%	-18%	-16%
1985	-8%	-1%	1%	4%	6%	7%	4%	0%	-6%	-16%	-17%	-3%
1986	1%	4%	4%	8%	10%	11%	4%	-5%	-5%	-10%	-15%	-16%
1987	-10%	-6%	-3%	1%	4%	7%	5%	0%	-6%	-15%	-17%	-9%
1988	-3%	3%	5%	8%	9%	7%	4%	-2%	-10%	-17%	-16%	-9%
1989	-2%	12%	5%	8%	8%	5%	2%	-2%	-10%	-15%	-13%	-7%
1990	-1%	4%	5%	6%	7%	5%	3%	-2%	-14%	-19%	-15%	-8%
1991	-1%	27%	6%	7%	2%	1%	0%	-2%	-5%	-10%	-12%	-5%
1992	-3%	4%	6%	8%	7%	6%	4%	-1%	-10%	-18%	-13%	-5%
1993	-1%	4%	6%	10%	15%	12%	3%	-5%	-5%	-7%	-11%	-11%
1994	-7%	-2%	1%	3%	5%	7%	4%	-1%	-7%	-15%	-17%	-5%
1995	1%	5%	5%	9%	14%	12%	2%	-7%	-6%	1%	-7%	-14%
1996	-13%	-8%	-3%	2%	10%	12%	2%	0%	-3%	-10%	-18%	-17%
1997	-10%	-2%	-1%	10%	6%	2%	-3%	-5%	-9%	-16%	-19%	-17%
1998	-8%	-1%	1%	6%	11%	8%	5%	-4%	-7%	2%	-7%	-14%
1999	-11%	-4%	-1%	2%	7%	9%	4%	-2%	-6%	-11%	-15%	-13%
2000	-7%	0%	2%	5%	13%	12%	3%	-3%	-6%	-10%	-13%	-7%
2001	0%	4%	4%	5%	6%	8%	3%	-3%	-8%	-13%	-13%	-5%
2002	0%	4%	5%	8%	11%	9%	5%	-1%	-7%	-14%	-14%	-7%
2003	0%	3%	3%	7%	12%	12%	5%	-3%	-4%	-9%	-12%	-6%

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated Friant-Kern Canal at Friant Dam Deg. F
Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					48	48	50	51	55	57	62	65
1981	64	60	56	52	50	49	50	53	58	65	70	68
1982	62	59	55	50	47	47	48	51	54	58	63	64
1983	62	59	55	50	48	48	51	57	51	54	60	63
1984	64	62	57	51	48	48	50	54	57	63	67	68
1985	64	59	54	51	49	48	50	53	56	64	70	66
1986	63	58	54	50	49	48	49	51	55	59	64	66
1987	63	60	56	52	50	49	50	52	56	63	69	68
1988	66	61	54	49	48	49	50	52	57	65	71	69
1989	65	56	55	49	48	50	51	53	58	65	70	68
1990	64	59	55	51	49	50	51	52	60	67	71	68
1991	65	48	53	50	52	53	54	58	59	64	69	67
1992	66	60	54	50	49	50	50	52	58	67	71	68
1993	66	61	55	49	47	48	50	53	54	58	63	65
1994	64	61	56	52	50	49	51	53	56	64	70	67
1995	63	57	52	49	46	47	50	52	54	56	61	65
1996	65	62	58	54	49	48	51	54	57	62	68	68
1997	65	59	56	48	48	48	50	55	58	64	68	68
1998	64	60	56	51	48	49	49	53	55	57	62	66
1999	64	59	55	51	48	48	50	54	57	62	67	68
2000	66	62	57	53	50	49	51	55	57	62	68	68
2001	65	59	54	52	51	50	51	54	58	65	70	68
2002	65	61	56	51	49	50	52	53	57	64	70	69
2003	65	61	57	52	50	50	53	55	57	62	69	68

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated Friant-Kern Canal at Friant Dam Deg. F
Alternative2 (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					53	53	52	50	51	54	55	56
1981	57	57	55	53	52	53	53	53	54	55	58	63
1982	64	61	57	53	52	52	51	49	50	52	54	55
1983	57	57	54	52	50	50	50	51	53	54	54	53
1984	54	56	55	53	52	52	52	54	53	53	55	57
1985	59	58	55	52	51	52	52	52	52	54	57	63
1986	64	61	56	54	54	53	51	49	52	53	54	55
1987	57	57	55	53	52	53	52	52	53	54	57	62
1988	64	62	57	53	52	52	52	51	51	54	60	63
1989	64	62	57	53	52	52	52	52	52	55	60	63
1990	64	62	57	54	53	52	52	51	51	55	60	63
1991	64	61	56	53	53	54	55	57	56	58	61	63
1992	64	63	57	54	52	53	52	52	52	55	62	64
1993	65	63	58	54	53	54	52	50	51	54	56	58
1994	60	60	56	53	53	53	52	52	52	54	58	63
1995	64	60	55	53	53	53	51	49	51	57	57	56
1996	57	57	57	55	54	53	52	54	56	55	56	57
1997	59	58	56	53	51	49	49	52	53	54	55	57
1998	59	60	56	54	54	53	52	51	51	58	58	57
1999	57	57	54	52	52	52	52	53	53	55	57	59
2000	61	62	58	56	56	55	53	53	54	56	59	62
2001	64	61	57	55	54	54	53	52	54	56	61	65
2002	65	63	58	55	54	55	54	52	53	55	60	64
2003	65	63	59	56	56	56	55	53	54	57	60	64

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Change in Average Simulated Friant-Kern Canal at Friant Dam Deg. F
Alternative2 (2005) - Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					5	5	2	-1	-3	-3	-7	-9
1981	-7	-3	-1	0	2	4	2	0	-5	-10	-12	-5
1982	2	2	3	4	5	5	3	-2	-4	-5	-9	-9
1983	-5	-3	-1	1	2	2	-1	-6	3	1	-6	-10
1984	-10	-6	-2	2	4	4	2	0	-4	-10	-12	-11
1985	-5	-1	1	2	3	3	2	0	-4	-10	-12	-3
1986	1	3	2	4	5	5	2	-3	-2	-6	-10	-11
1987	-6	-3	-1	1	2	3	2	0	-3	-9	-12	-6
1988	-2	2	3	4	4	4	2	-1	-6	-11	-11	-6
1989	-1	7	3	4	4	3	1	-1	-6	-10	-9	-5
1990	-1	2	3	3	3	2	2	-1	-9	-12	-11	-6
1991	-1	13	3	3	1	0	0	-1	-3	-6	-9	-4
1992	-2	2	3	4	3	3	2	0	-6	-12	-9	-4
1993	-1	2	3	5	7	6	1	-3	-2	-4	-7	-7
1994	-4	-1	0	2	2	3	2	-1	-4	-9	-12	-3
1995	1	3	3	4	6	6	1	-4	-3	1	-4	-9
1996	-9	-5	-2	1	5	6	1	0	-2	-6	-12	-11
1997	-6	-1	0	5	3	1	-2	-3	-5	-10	-13	-11
1998	-5	-1	1	3	5	4	3	-2	-4	1	-4	-9
1999	-7	-2	-1	1	4	4	2	-1	-4	-7	-10	-9
2000	-5	0	1	3	6	6	2	-1	-3	-6	-9	-5
2001	0	2	2	3	3	4	2	-2	-4	-9	-9	-4
2002	0	2	3	4	5	5	3	0	-4	-9	-9	-5
2003	0	2	2	4	6	6	3	-2	-3	-6	-9	-5

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Percent Change in Average Simulated Friant-Kern Canal at Friant Dam Deg. F
From Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					11%	9%	4%	-3%	-6%	-5%	-12%	-14%
1981	-11%	-5%	-2%	1%	4%	7%	5%	0%	-8%	-15%	-17%	-7%
1982	3%	4%	5%	8%	10%	11%	6%	-4%	-8%	-9%	-14%	-14%
1983	-8%	-4%	-2%	3%	5%	4%	-3%	-11%	6%	2%	-9%	-16%
1984	-15%	-10%	-3%	4%	8%	8%	3%	-1%	-7%	-15%	-18%	-16%
1985	-8%	-1%	1%	4%	6%	7%	4%	0%	-6%	-16%	-18%	-4%
1986	2%	5%	5%	8%	11%	11%	4%	-5%	-4%	-10%	-15%	-16%
1987	-10%	-5%	-2%	1%	4%	7%	5%	0%	-6%	-15%	-18%	-9%
1988	-3%	3%	5%	8%	9%	7%	4%	-2%	-10%	-17%	-16%	-9%
1989	-2%	12%	5%	8%	8%	5%	2%	-2%	-10%	-15%	-13%	-7%
1990	-1%	4%	5%	6%	7%	5%	3%	-2%	-14%	-18%	-15%	-8%
1991	-1%	27%	6%	7%	2%	1%	0%	-2%	-5%	-10%	-12%	-6%
1992	-3%	4%	6%	7%	7%	6%	4%	-1%	-10%	-18%	-13%	-5%
1993	-1%	4%	6%	10%	14%	11%	3%	-5%	-4%	-7%	-11%	-11%
1994	-7%	-2%	1%	3%	5%	6%	4%	-1%	-7%	-15%	-16%	-5%
1995	1%	5%	5%	9%	14%	12%	2%	-7%	-6%	1%	-7%	-14%
1996	-13%	-8%	-3%	2%	10%	12%	2%	0%	-3%	-10%	-18%	-17%
1997	-10%	-2%	0%	10%	6%	2%	-3%	-5%	-9%	-16%	-18%	-17%
1998	-8%	-1%	1%	6%	11%	9%	5%	-4%	-7%	2%	-7%	-14%
1999	-11%	-4%	-2%	2%	7%	9%	3%	-2%	-6%	-11%	-15%	-13%
2000	-8%	0%	2%	5%	13%	12%	4%	-3%	-6%	-10%	-13%	-8%
2001	-1%	3%	4%	5%	6%	8%	3%	-4%	-8%	-13%	-13%	-5%
2002	0%	4%	5%	8%	11%	10%	5%	-1%	-7%	-14%	-13%	-7%
2003	0%	4%	4%	8%	13%	12%	5%	-3%	-4%	-9%	-13%	-7%

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated Friant-Kern Canal at Friant Dam Deg. F
Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					48	48	50	51	55	57	62	65
1981	64	60	56	52	50	49	50	53	58	65	70	68
1982	62	59	55	50	47	47	48	51	54	58	63	64
1983	62	59	55	50	48	48	51	57	51	54	60	63
1984	64	62	57	51	48	48	50	54	57	63	67	68
1985	64	59	54	51	49	48	50	53	56	64	70	66
1986	63	58	54	50	49	48	49	51	55	59	64	66
1987	63	60	56	52	50	49	50	52	56	63	69	68
1988	66	61	54	49	48	49	50	52	57	65	71	69
1989	65	56	55	49	48	50	51	53	58	65	70	68
1990	64	59	55	51	49	50	51	52	60	67	71	68
1991	65	48	53	50	52	53	54	58	59	64	69	67
1992	66	60	54	50	49	50	50	52	58	67	71	68
1993	66	61	55	49	47	48	50	53	54	58	63	65
1994	64	61	56	52	50	49	51	53	56	64	70	67
1995	63	57	52	49	46	47	50	52	54	56	61	65
1996	65	62	58	54	49	48	51	54	57	62	68	68
1997	65	59	56	48	48	48	50	55	58	64	68	68
1998	64	60	56	51	48	49	49	53	55	57	62	66
1999	64	59	55	51	48	48	50	54	57	62	67	68
2000	66	62	57	53	50	49	51	55	57	62	68	68
2001	65	59	54	52	51	50	51	54	58	65	70	68
2002	65	61	56	51	49	50	52	53	57	64	70	69
2003	65	61	57	52	50	50	53	55	57	62	69	68

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated Friant-Kern Canal at Friant Dam Deg. F
Alternative3 (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					53	53	52	50	51	53	56	58
1981	59	58	55	53	52	53	53	53	53	55	60	65
1982	65	61	57	53	52	52	50	49	50	52	55	56
1983	58	58	55	52	50	50	50	51	53	54	54	53
1984	54	56	55	53	52	52	53	53	53	54	56	58
1985	61	59	56	53	52	52	52	52	53	54	60	64
1986	64	61	56	54	54	53	51	48	50	53	54	56
1987	58	58	55	53	53	53	52	52	53	54	58	63
1988	64	62	57	53	52	52	52	51	51	54	60	63
1989	64	62	57	53	52	52	52	52	52	55	61	63
1990	63	62	57	54	53	52	52	51	52	55	59	63
1991	64	61	56	53	53	54	54	57	56	57	61	64
1992	64	63	57	53	52	53	52	52	52	56	62	64
1993	65	63	58	54	53	53	51	51	53	56	58	61
1994	63	61	57	53	53	53	52	52	52	54	59	64
1995	64	60	55	53	53	53	51	49	51	57	57	56
1996	57	58	57	55	54	53	52	53	56	55	56	58
1997	59	58	56	53	51	49	49	52	54	54	56	57
1998	60	60	57	54	54	53	52	51	52	56	57	57
1999	58	57	55	52	52	52	52	53	54	56	59	62
2000	64	63	59	56	56	56	53	53	55	57	60	64
2001	65	61	57	55	54	54	53	52	54	57	62	65
2002	65	64	59	55	54	55	55	52	53	56	61	64
2003	65	63	59	57	56	56	55	53	54	57	61	64

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Change in Average Simulated Friant-Kern Canal at Friant Dam Deg. F
Alternative3 (2005) - Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					5	5	2	-2	-3	-4	-6	-7
1981	-6	-2	-1	1	2	4	2	0	-5	-9	-9	-3
1982	2	2	2	4	5	5	3	-2	-4	-5	-8	-8
1983	-4	-2	-1	1	2	2	-1	-6	3	1	-6	-10
1984	-10	-6	-2	2	4	4	3	-1	-5	-9	-11	-10
1985	-3	0	1	2	3	3	2	0	-3	-10	-10	-2
1986	1	3	2	4	5	5	2	-3	-5	-6	-9	-10
1987	-6	-2	-1	1	2	3	2	0	-3	-9	-11	-5
1988	-2	2	3	4	4	3	2	-1	-6	-11	-11	-6
1989	-1	7	3	4	4	2	1	-1	-6	-10	-9	-5
1990	-1	2	3	3	3	2	2	-1	-9	-13	-12	-5
1991	-1	13	3	3	1	0	0	-1	-3	-7	-9	-4
1992	-2	3	3	4	3	3	2	0	-6	-12	-9	-4
1993	-1	2	3	5	7	5	0	-2	-1	-2	-4	-4
1994	-2	0	1	2	3	3	2	-1	-4	-9	-11	-3
1995	1	3	3	4	6	6	1	-3	-4	1	-4	-8
1996	-8	-5	-1	1	5	6	1	0	-1	-6	-12	-11
1997	-6	-1	0	5	3	1	-1	-3	-5	-10	-12	-11
1998	-4	0	1	3	5	4	2	-2	-4	-1	-5	-9
1999	-7	-2	-1	1	4	4	2	-1	-3	-6	-8	-6
2000	-2	1	2	3	7	7	2	-1	-3	-5	-7	-4
2001	0	2	2	3	3	4	2	-2	-4	-8	-8	-3
2002	0	2	3	4	5	5	3	0	-4	-8	-9	-5
2003	0	2	2	4	6	6	2	-2	-2	-5	-7	-4

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Percent Change in Average Simulated Friant-Kern Canal at Friant Dam Deg. F
From Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					11%	10%	3%	-3%	-6%	-6%	-10%	-11%
1981	-9%	-4%	-1%	1%	4%	7%	5%	-1%	-8%	-14%	-13%	-5%
1982	3%	4%	4%	7%	10%	10%	5%	-4%	-8%	-9%	-13%	-12%
1983	-6%	-3%	-1%	2%	5%	4%	-3%	-11%	6%	2%	-9%	-16%
1984	-16%	-10%	-4%	4%	8%	8%	5%	-1%	-8%	-14%	-17%	-14%
1985	-5%	1%	2%	4%	6%	7%	4%	0%	-6%	-15%	-14%	-3%
1986	1%	4%	4%	8%	10%	11%	4%	-6%	-9%	-10%	-14%	-15%
1987	-9%	-4%	-1%	2%	5%	7%	5%	0%	-6%	-15%	-16%	-7%
1988	-3%	3%	5%	7%	8%	7%	4%	-2%	-10%	-16%	-16%	-9%
1989	-2%	12%	5%	8%	7%	5%	1%	-2%	-10%	-15%	-13%	-7%
1990	-1%	4%	5%	6%	7%	5%	3%	-2%	-14%	-19%	-16%	-8%
1991	-1%	27%	6%	6%	2%	1%	0%	-2%	-5%	-10%	-13%	-5%
1992	-3%	4%	6%	7%	7%	6%	4%	-1%	-10%	-17%	-13%	-5%
1993	-1%	4%	6%	10%	14%	11%	1%	-4%	-1%	-3%	-7%	-7%
1994	-3%	0%	2%	4%	5%	7%	3%	-2%	-7%	-14%	-15%	-4%
1995	2%	5%	6%	9%	14%	12%	1%	-7%	-7%	2%	-6%	-13%
1996	-12%	-7%	-3%	2%	10%	12%	2%	-1%	-2%	-10%	-17%	-16%
1997	-9%	-2%	0%	11%	7%	2%	-2%	-5%	-8%	-15%	-18%	-16%
1998	-6%	-1%	1%	6%	11%	9%	5%	-4%	-6%	-2%	-8%	-13%
1999	-10%	-4%	-1%	2%	8%	9%	3%	-1%	-5%	-9%	-12%	-9%
2000	-3%	1%	3%	6%	14%	13%	4%	-3%	-5%	-9%	-11%	-6%
2001	0%	4%	4%	5%	6%	8%	3%	-3%	-7%	-13%	-12%	-5%
2002	0%	4%	5%	9%	11%	10%	6%	-1%	-7%	-13%	-13%	-7%
2003	0%	4%	4%	8%	13%	12%	5%	-3%	-4%	-8%	-11%	-6%

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated Friant-Kern Canal at Friant Dam Deg. F
Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					48	48	50	51	55	57	62	65
1981	64	60	56	52	50	49	50	53	58	65	70	68
1982	62	59	55	50	47	47	48	51	54	58	63	64
1983	62	59	55	50	48	48	51	57	51	54	60	63
1984	64	62	57	51	48	48	50	54	57	63	67	68
1985	64	59	54	51	49	48	50	53	56	64	70	66
1986	63	58	54	50	49	48	49	51	55	59	64	66
1987	63	60	56	52	50	49	50	52	56	63	69	68
1988	66	61	54	49	48	49	50	52	57	65	71	69
1989	65	56	55	49	48	50	51	53	58	65	70	68
1990	64	59	55	51	49	50	51	52	60	67	71	68
1991	65	48	53	50	52	53	54	58	59	64	69	67
1992	66	60	54	50	49	50	50	52	58	67	71	68
1993	66	61	55	49	47	48	50	53	54	58	63	65
1994	64	61	56	52	50	49	51	53	56	64	70	67
1995	63	57	52	49	46	47	50	52	54	56	61	65
1996	65	62	58	54	49	48	51	54	57	62	68	68
1997	65	59	56	48	48	48	50	55	58	64	68	68
1998	64	60	56	51	48	49	49	53	55	57	62	66
1999	64	59	55	51	48	48	50	54	57	62	67	68
2000	66	62	57	53	50	49	51	55	57	62	68	68
2001	65	59	54	52	51	50	51	54	58	65	70	68
2002	65	61	56	51	49	50	52	53	57	64	70	69
2003	65	61	57	52	50	50	53	55	57	62	69	68

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated Friant-Kern Canal at Friant Dam Deg. F
Alternative4 (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					51	52	52	53	55	57	58	53
1981	51	53	53	51	51	52	52	56	60	58	63	57
1982	55	58	55	51	50	50	50	51	54	56	57	52
1983	51	53	53	51	50	50	50	52	54	55	57	54
1984	52	53	54	52	51	51	51	55	56	58	60	54
1985	52	54	53	51	50	51	52	53	55	59	59	54
1986	56	58	54	52	53	53	50	52	56	57	59	53
1987	51	52	53	51	51	51	51	53	55	59	57	54
1988	55	59	55	51	51	51	51	51	52	55	59	57
1989	59	61	57	52	51	52	52	52	56	56	60	57
1990	60	61	56	53	52	52	52	51	53	57	62	60
1991	59	60	55	52	52	53	54	58	57	59	62	61
1992	62	62	56	53	52	52	52	54	60	57	61	59
1993	59	62	56	53	53	53	51	53	55	59	62	55
1994	52	54	53	51	51	52	52	53	56	59	57	55
1995	57	58	53	52	52	52	50	52	55	58	59	54
1996	53	54	55	54	53	52	51	55	58	59	62	56
1997	53	55	54	52	50	49	48	53	56	59	63	55
1998	52	52	53	52	52	51	51	54	56	60	60	55
1999	53	55	53	51	51	52	52	55	58	61	59	55
2000	54	58	56	54	55	54	53	55	56	59	63	57
2001	56	58	55	53	53	53	52	54	58	62	59	57
2002	59	62	57	54	53	54	54	55	58	61	58	56
2003	57	61	58	55	54	55	54	54	57	61	59	57

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Change in Average Simulated Friant-Kern Canal at Friant Dam Deg. F
Alternative4 (2005) - Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					4	4	2	1	0	0	-4	-12
1981	-13	-7	-3	-1	1	3	2	3	1	-6	-7	-10
1982	-8	-1	0	2	3	4	3	0	0	-2	-6	-12
1983	-11	-7	-2	1	2	2	-2	-5	3	1	-3	-9
1984	-12	-9	-3	1	4	3	1	1	-1	-5	-7	-14
1985	-11	-4	-1	0	2	3	1	0	-1	-5	-11	-11
1986	-7	0	1	2	4	5	1	1	1	-2	-5	-13
1987	-13	-8	-3	-1	1	2	1	0	-1	-4	-12	-14
1988	-11	-2	1	2	3	2	1	-1	-5	-10	-11	-12
1989	-5	6	2	3	3	2	0	0	-2	-9	-9	-10
1990	-4	1	2	2	3	2	1	-1	-7	-11	-9	-8
1991	-6	12	2	2	0	-1	-1	0	-2	-5	-7	-6
1992	-5	2	2	3	3	3	2	2	2	-11	-10	-9
1993	-6	1	2	4	6	5	1	0	1	1	-1	-11
1994	-12	-7	-2	-1	1	2	1	0	0	-4	-13	-11
1995	-6	2	1	3	5	5	0	0	1	2	-2	-10
1996	-12	-8	-3	0	4	5	1	1	0	-3	-6	-12
1997	-12	-5	-2	4	2	1	-2	-1	-2	-4	-5	-13
1998	-12	-8	-3	1	3	3	1	1	0	2	-2	-11
1999	-11	-5	-2	0	3	3	1	1	2	0	-8	-13
2000	-11	-4	-1	1	5	5	1	0	-1	-3	-5	-11
2001	-9	0	0	1	2	3	1	0	0	-3	-11	-12
2002	-7	0	1	3	4	4	2	2	1	-3	-12	-14
2003	-8	0	1	2	5	4	1	-1	1	-1	-9	-12

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Percent Change in Average Simulated Friant-Kern Canal at Friant Dam Deg. F
From Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					7%	7%	3%	2%	0%	-1%	-7%	-18%
1981	-20%	-11%	-6%	-2%	2%	6%	4%	6%	2%	-10%	-10%	-15%
1982	-12%	-2%	0%	4%	7%	8%	6%	1%	0%	-3%	-9%	-19%
1983	-17%	-11%	-4%	1%	4%	4%	-3%	-9%	6%	2%	-5%	-15%
1984	-18%	-14%	-6%	3%	7%	7%	2%	1%	-3%	-8%	-10%	-21%
1985	-18%	-7%	-3%	0%	4%	5%	3%	1%	-2%	-8%	-15%	-17%
1986	-11%	0%	1%	5%	8%	10%	2%	1%	2%	-3%	-8%	-20%
1987	-20%	-13%	-6%	-3%	2%	4%	3%	1%	-1%	-6%	-18%	-21%
1988	-16%	-4%	2%	4%	6%	5%	2%	-2%	-9%	-16%	-16%	-18%
1989	-8%	10%	3%	6%	6%	4%	1%	0%	-3%	-14%	-14%	-15%
1990	-7%	2%	3%	4%	5%	4%	2%	-2%	-12%	-16%	-13%	-12%
1991	-9%	25%	3%	5%	0%	-1%	-1%	-1%	-3%	-8%	-11%	-9%
1992	-7%	3%	4%	6%	6%	6%	3%	3%	3%	-16%	-14%	-14%
1993	-10%	1%	3%	8%	13%	10%	2%	-1%	2%	2%	-2%	-17%
1994	-19%	-11%	-4%	-1%	2%	4%	2%	1%	0%	-7%	-19%	-17%
1995	-9%	3%	3%	7%	12%	10%	0%	0%	1%	3%	-4%	-16%
1996	-19%	-13%	-5%	0%	8%	10%	1%	2%	1%	-5%	-9%	-18%
1997	-18%	-8%	-4%	7%	5%	2%	-4%	-3%	-4%	-7%	-7%	-19%
1998	-19%	-13%	-5%	1%	7%	5%	3%	2%	1%	4%	-4%	-17%
1999	-17%	-8%	-4%	0%	6%	7%	2%	3%	3%	-1%	-12%	-19%
2000	-17%	-6%	-1%	2%	10%	11%	3%	0%	-2%	-5%	-8%	-16%
2001	-14%	-1%	1%	2%	4%	6%	2%	0%	-1%	-5%	-16%	-17%
2002	-10%	1%	3%	6%	8%	8%	4%	3%	1%	-5%	-17%	-20%
2003	-12%	0%	1%	5%	10%	9%	3%	-2%	1%	-2%	-14%	-17%

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated Friant-Kern Canal at Friant Dam Deg. F
Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					48	48	50	51	55	57	62	65
1981	64	60	56	52	50	49	50	53	58	65	70	68
1982	62	59	55	50	47	47	48	51	54	58	63	64
1983	62	59	55	50	48	48	51	57	51	54	60	63
1984	64	62	57	51	48	48	50	54	57	63	67	68
1985	64	59	54	51	49	48	50	53	56	64	70	66
1986	63	58	54	50	49	48	49	51	55	59	64	66
1987	63	60	56	52	50	49	50	52	56	63	69	68
1988	66	61	54	49	48	49	50	52	57	65	71	69
1989	65	56	55	49	48	50	51	53	58	65	70	68
1990	64	59	55	51	49	50	51	52	60	67	71	68
1991	65	48	53	50	52	53	54	58	59	64	69	67
1992	66	60	54	50	49	50	50	52	58	67	71	68
1993	66	61	55	49	47	48	50	53	54	58	63	65
1994	64	61	56	52	50	49	51	53	56	64	70	67
1995	63	57	52	49	46	47	50	52	54	56	61	65
1996	65	62	58	54	49	48	51	54	57	62	68	68
1997	65	59	56	48	48	48	50	55	58	64	68	68
1998	64	60	56	51	48	49	49	53	55	57	62	66
1999	64	59	55	51	48	48	50	54	57	62	67	68
2000	66	62	57	53	50	49	51	55	57	62	68	68
2001	65	59	54	52	51	50	51	54	58	65	70	68
2002	65	61	56	51	49	50	52	53	57	64	70	69
2003	65	61	57	52	50	50	53	55	57	62	69	68

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated Friant-Kern Canal at Friant Dam Deg. F
Alternative5 (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					53	53	52	49	51	53	56	57
1981	59	59	55	53	53	53	53	53	55	60	66	69
1982	64	60	55	51	50	49	49	49	51	53	55	58
1983	60	59	55	52	50	50	50	51	53	54	54	53
1984	54	56	55	52	52	52	53	54	53	54	56	58
1985	60	59	56	53	52	52	52	53	54	58	65	65
1986	65	60	55	53	53	52	50	48	50	53	56	59
1987	61	60	57	53	53	53	52	52	54	58	65	70
1988	67	61	55	51	50	52	53	55	59	70	72	69
1989	65	60	54	50	51	55	55	54	60	69	70	68
1990	64	59	54	51	50	55	57	57	67	72	72	69
1991	65	59	53	50	53	55	57	60	63	67	69	69
1992	67	61	54	50	50	55	55	54	63	71	73	68
1993	66	61	54	50	48	49	50	53	54	57	60	62
1994	63	61	57	54	53	53	52	52	54	59	68	69
1995	64	58	53	50	50	50	49	49	52	54	57	57
1996	58	58	57	55	54	53	52	53	56	55	56	58
1997	59	58	56	53	50	49	49	53	54	54	56	57
1998	60	60	56	54	54	53	52	51	52	57	57	57
1999	58	57	55	52	52	52	52	53	54	55	57	59
2000	61	62	58	56	56	55	53	54	55	57	60	63
2001	65	61	57	55	54	54	53	53	56	60	66	68
2002	68	63	57	54	52	54	54	54	57	63	72	71
2003	66	61	58	55	54	54	56	58	57	61	68	70

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Change in Average Simulated Friant-Kern Canal at Friant Dam Deg. F
Alternative5 (2005) - Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					5	5	2	-2	-4	-4	-7	-7
1981	-5	-2	0	1	2	4	2	0	-3	-5	-4	1
1982	2	1	0	1	2	3	1	-2	-3	-4	-7	-7
1983	-2	-1	0	2	2	2	-2	-6	3	1	-6	-10
1984	-10	-6	-2	2	4	4	3	0	-4	-9	-11	-10
1985	-3	0	1	2	3	4	2	0	-2	-6	-5	0
1986	2	2	1	3	4	5	1	-3	-4	-5	-7	-7
1987	-2	0	0	2	3	4	2	0	-2	-5	-4	2
1988	1	1	1	1	2	3	3	3	2	5	2	0
1989	0	5	0	1	3	5	4	2	2	4	1	0
1990	0	0	0	0	1	5	6	4	7	5	1	0
1991	0	11	0	1	1	1	3	2	4	3	0	2
1992	1	0	0	1	1	6	5	2	5	4	1	0
1993	0	0	0	1	2	1	0	0	0	-1	-3	-3
1994	-1	1	1	2	3	3	2	-1	-2	-5	-2	2
1995	1	1	1	2	3	3	-1	-3	-3	-2	-4	-8
1996	-8	-4	-1	1	5	6	1	0	-1	-6	-12	-11
1997	-6	-1	0	5	3	1	-1	-2	-5	-10	-12	-11
1998	-4	-1	1	3	5	4	2	-2	-4	0	-5	-9
1999	-7	-2	-1	1	4	4	2	-1	-3	-6	-10	-8
2000	-5	0	1	3	6	6	2	-1	-3	-5	-8	-4
2001	0	2	2	3	3	4	1	-1	-3	-5	-4	-1
2002	2	2	2	3	4	3	2	1	0	-1	2	2
2003	1	1	0	2	4	4	3	3	0	-1	-1	1

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Percent Change in Average Simulated Friant-Kern Canal at Friant Dam Deg. F
From Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					11%	10%	3%	-4%	-7%	-7%	-11%	-11%
1981	-8%	-3%	-1%	2%	5%	7%	5%	0%	-5%	-8%	-6%	2%
1982	3%	1%	1%	3%	5%	5%	3%	-3%	-6%	-8%	-12%	-10%
1983	-3%	-1%	-1%	3%	5%	4%	-3%	-11%	5%	1%	-10%	-16%
1984	-15%	-10%	-4%	4%	8%	8%	6%	-1%	-8%	-14%	-17%	-14%
1985	-5%	1%	2%	4%	6%	7%	4%	0%	-4%	-10%	-7%	0%
1986	3%	3%	2%	5%	9%	10%	2%	-6%	-8%	-9%	-12%	-11%
1987	-4%	-1%	1%	3%	5%	7%	5%	0%	-4%	-7%	-5%	3%
1988	1%	1%	2%	3%	4%	7%	6%	6%	4%	8%	2%	1%
1989	0%	8%	-1%	2%	5%	10%	7%	3%	4%	6%	1%	1%
1990	0%	0%	0%	1%	2%	11%	13%	8%	11%	8%	1%	1%
1991	0%	22%	0%	1%	3%	2%	5%	3%	7%	5%	0%	3%
1992	2%	1%	0%	1%	3%	11%	9%	4%	8%	6%	2%	0%
1993	0%	0%	0%	2%	4%	2%	0%	0%	0%	-2%	-5%	-5%
1994	-2%	1%	2%	4%	5%	7%	3%	-1%	-4%	-7%	-4%	3%
1995	2%	2%	1%	4%	7%	6%	-2%	-6%	-5%	-3%	-7%	-12%
1996	-12%	-7%	-2%	3%	11%	12%	3%	0%	-2%	-10%	-17%	-16%
1997	-9%	-2%	0%	11%	5%	2%	-2%	-4%	-8%	-15%	-18%	-16%
1998	-7%	-1%	1%	6%	11%	9%	5%	-4%	-6%	-1%	-7%	-13%
1999	-10%	-4%	-1%	2%	8%	9%	4%	-1%	-5%	-10%	-15%	-12%
2000	-7%	0%	2%	5%	13%	12%	4%	-1%	-5%	-9%	-12%	-6%
2001	0%	4%	4%	5%	6%	8%	3%	-2%	-4%	-7%	-6%	-1%
2002	4%	3%	3%	5%	7%	6%	4%	2%	0%	-2%	3%	3%
2003	2%	1%	1%	4%	9%	7%	5%	6%	0%	-2%	-1%	2%

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated Friant-Kern Canal at Friant Dam Deg. F
No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					48	48	50	52	55	57	62	65
1981	64	60	56	52	50	49	50	53	58	65	70	68
1982	63	59	55	50	47	47	48	51	54	58	63	64
1983	62	59	55	50	48	48	52	57	51	54	60	64
1984	64	62	57	51	48	48	51	55	58	64	67	68
1985	64	59	54	50	48	48	51	53	57	65	70	65
1986	63	58	54	50	49	48	49	51	55	59	64	66
1987	63	60	56	52	50	49	50	52	56	65	70	68
1988	66	60	54	49	48	49	51	53	58	66	71	69
1989	65	61	55	49	49	51	52	53	58	65	70	68
1990	64	59	55	51	49	50	51	53	61	68	71	68
1991	65	59	53	50	48	54	55	58	59	64	69	67
1992	66	60	54	50	49	50	51	53	59	67	71	68
1993	66	61	55	49	46	47	51	54	54	58	63	66
1994	64	60	55	51	50	49	51	53	57	63	69	67
1995	63	58	53	49	47	47	51	53	54	56	61	65
1996	65	62	58	54	49	47	51	54	57	62	68	69
1997	65	59	56	48	48	48	51	55	59	64	69	68
1998	63	60	56	51	48	48	49	53	55	57	62	66
1999	64	59	55	51	48	48	51	54	57	62	67	68
2000	66	62	57	53	50	49	52	55	57	62	68	68
2001	65	59	54	52	51	50	52	55	58	66	70	68
2002	65	61	55	51	49	51	52	53	58	65	70	69
2003	65	61	57	53	50	51	53	56	57	62	69	68

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated Friant-Kern Canal at Friant Dam Deg. F
Alternative1 (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					53	53	52	50	51	53	55	57
1981	58	58	55	53	53	53	53	52	53	55	60	65
1982	65	62	57	53	52	52	50	49	49	52	55	57
1983	59	58	55	52	50	50	50	51	53	54	54	53
1984	54	56	55	53	52	52	53	53	52	54	55	58
1985	60	59	56	53	52	52	52	52	53	54	59	64
1986	64	61	56	54	54	53	51	48	50	53	55	56
1987	58	58	56	53	53	53	53	52	53	54	58	63
1988	64	62	57	53	52	52	52	51	51	54	60	63
1989	64	62	57	53	52	52	52	52	52	55	61	63
1990	63	62	57	54	53	52	52	51	52	55	59	63
1991	64	61	56	53	53	54	54	57	56	57	61	64
1992	64	63	57	53	52	53	52	52	52	56	62	64
1993	65	63	58	54	53	53	50	51	53	55	58	60
1994	62	61	57	53	53	53	52	52	52	54	59	63
1995	64	60	55	53	53	53	51	49	50	57	57	56
1996	57	57	57	55	54	53	52	53	56	55	56	57
1997	59	58	56	53	51	49	49	52	53	54	55	57
1998	59	60	57	54	54	53	52	51	51	56	57	57
1999	58	57	55	52	52	52	52	53	54	55	58	61
2000	64	63	59	56	56	56	53	53	54	56	60	63
2001	65	61	57	55	54	54	53	52	54	57	62	65
2002	65	64	58	55	54	55	54	53	53	56	61	64
2003	65	63	59	56	56	56	55	53	54	57	61	64

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Change in Average Simulated Friant-Kern Canal at Friant Dam Deg. F
Alternative1 (2030) - No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					6	5	2	-2	-4	-4	-7	-8
1981	-6	-2	-1	1	2	4	2	0	-5	-10	-10	-3
1982	2	2	3	4	5	5	3	-2	-5	-5	-8	-7
1983	-3	-1	-1	1	2	2	-2	-6	3	1	-6	-10
1984	-10	-6	-2	2	4	4	2	-2	-5	-10	-12	-10
1985	-3	0	1	2	3	3	2	0	-4	-11	-11	-2
1986	1	3	2	4	5	6	1	-3	-5	-6	-9	-10
1987	-5	-2	-1	1	2	4	2	0	-4	-11	-12	-5
1988	-2	2	3	4	4	3	1	-2	-7	-12	-11	-6
1989	-1	2	3	4	3	2	0	-1	-6	-10	-9	-5
1990	-1	2	3	3	3	2	1	-1	-9	-13	-12	-5
1991	-1	2	3	3	5	0	-1	-2	-3	-7	-9	-3
1992	-2	2	3	4	3	3	1	-1	-7	-12	-9	-4
1993	-1	2	3	5	7	6	0	-3	-1	-3	-5	-5
1994	-2	0	1	2	2	3	2	-1	-4	-9	-10	-3
1995	0	2	2	4	6	6	0	-4	-4	1	-4	-8
1996	-8	-5	-1	1	5	6	1	-1	-2	-7	-12	-11
1997	-6	-1	0	5	3	1	-2	-3	-5	-10	-14	-11
1998	-4	0	1	3	6	5	2	-2	-4	-1	-5	-9
1999	-6	-2	-1	1	4	4	1	-2	-3	-7	-9	-6
2000	-2	1	2	3	7	6	2	-1	-3	-6	-8	-4
2001	0	2	2	3	3	4	1	-2	-4	-9	-9	-3
2002	0	2	3	4	5	4	2	-1	-4	-9	-10	-5
2003	0	2	2	4	6	6	2	-3	-3	-6	-8	-4

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Percent Change in Average Simulated Friant-Kern Canal at Friant Dam Deg. F
From No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					12%	11%	3%	-4%	-7%	-6%	-11%	-12%
1981	-9%	-4%	-1%	1%	4%	7%	5%	-1%	-8%	-15%	-14%	-5%
1982	4%	4%	5%	7%	10%	11%	5%	-4%	-8%	-9%	-13%	-12%
1983	-5%	-2%	-1%	3%	5%	4%	-4%	-11%	5%	1%	-10%	-16%
1984	-15%	-10%	-4%	4%	8%	7%	4%	-3%	-9%	-16%	-18%	-15%
1985	-5%	1%	2%	5%	6%	7%	3%	-1%	-7%	-16%	-16%	-3%
1986	1%	4%	4%	7%	10%	12%	3%	-6%	-9%	-10%	-14%	-14%
1987	-8%	-4%	-1%	2%	5%	7%	5%	0%	-7%	-17%	-17%	-7%
1988	-3%	4%	6%	9%	8%	5%	2%	-4%	-11%	-18%	-16%	-9%
1989	-2%	3%	5%	8%	7%	3%	1%	-2%	-11%	-15%	-13%	-7%
1990	-1%	4%	5%	6%	6%	4%	2%	-3%	-15%	-19%	-16%	-8%
1991	-1%	4%	5%	6%	10%	0%	-2%	-3%	-5%	-11%	-13%	-5%
1992	-3%	4%	6%	7%	6%	5%	3%	-2%	-11%	-18%	-13%	-5%
1993	-1%	4%	5%	10%	15%	13%	0%	-5%	-3%	-5%	-8%	-8%
1994	-3%	1%	2%	4%	5%	7%	3%	-2%	-8%	-14%	-14%	-5%
1995	1%	4%	4%	8%	13%	12%	0%	-8%	-7%	2%	-7%	-13%
1996	-13%	-8%	-2%	2%	11%	13%	2%	-2%	-3%	-11%	-18%	-16%
1997	-9%	-2%	0%	11%	7%	2%	-4%	-5%	-9%	-16%	-20%	-16%
1998	-6%	0%	2%	6%	12%	10%	5%	-5%	-7%	-2%	-8%	-13%
1999	-10%	-3%	-1%	2%	8%	9%	2%	-3%	-6%	-11%	-14%	-9%
2000	-3%	2%	3%	6%	13%	13%	3%	-2%	-5%	-9%	-12%	-7%
2001	0%	4%	5%	5%	5%	8%	2%	-4%	-7%	-13%	-12%	-5%
2002	0%	4%	5%	8%	10%	9%	5%	-1%	-7%	-14%	-14%	-7%
2003	0%	4%	4%	7%	12%	11%	4%	-5%	-4%	-9%	-12%	-6%

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated Friant-Kern Canal at Friant Dam Deg. F
No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					48	48	50	52	55	57	62	65
1981	64	60	56	52	50	49	50	53	58	65	70	68
1982	63	59	55	50	47	47	48	51	54	58	63	64
1983	62	59	55	50	48	48	52	57	51	54	60	64
1984	64	62	57	51	48	48	51	55	58	64	67	68
1985	64	59	54	50	48	48	51	53	57	65	70	65
1986	63	58	54	50	49	48	49	51	55	59	64	66
1987	63	60	56	52	50	49	50	52	56	65	70	68
1988	66	60	54	49	48	49	51	53	58	66	71	69
1989	65	61	55	49	49	51	52	53	58	65	70	68
1990	64	59	55	51	49	50	51	53	61	68	71	68
1991	65	59	53	50	48	54	55	58	59	64	69	67
1992	66	60	54	50	49	50	51	53	59	67	71	68
1993	66	61	55	49	46	47	51	54	54	58	63	66
1994	64	60	55	51	50	49	51	53	57	63	69	67
1995	63	58	53	49	47	47	51	53	54	56	61	65
1996	65	62	58	54	49	47	51	54	57	62	68	69
1997	65	59	56	48	48	48	51	55	59	64	69	68
1998	63	60	56	51	48	48	49	53	55	57	62	66
1999	64	59	55	51	48	48	51	54	57	62	67	68
2000	66	62	57	53	50	49	52	55	57	62	68	68
2001	65	59	54	52	51	50	52	55	58	66	70	68
2002	65	61	55	51	49	51	52	53	58	65	70	69
2003	65	61	57	53	50	51	53	56	57	62	69	68

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated Friant-Kern Canal at Friant Dam Deg. F
Alternative2 (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					53	53	52	50	51	53	55	57
1981	58	58	55	53	53	53	53	53	53	55	59	64
1982	65	62	57	53	52	52	50	49	49	53	55	57
1983	59	58	55	52	50	50	50	51	53	54	54	53
1984	54	56	55	53	52	52	53	53	52	54	55	58
1985	60	59	56	53	52	52	52	52	52	54	58	63
1986	64	61	56	54	54	53	51	48	50	53	55	56
1987	58	58	56	53	53	53	52	52	53	54	58	63
1988	64	62	57	53	52	52	52	51	51	54	60	63
1989	64	62	58	53	52	52	52	52	52	55	60	63
1990	63	62	57	54	53	52	52	51	51	55	60	63
1991	64	61	56	53	53	54	54	57	56	57	60	63
1992	64	63	57	53	52	53	52	52	52	55	62	64
1993	65	63	58	54	53	53	51	51	53	55	58	60
1994	62	61	57	53	53	53	52	52	52	54	59	63
1995	64	60	55	53	53	53	51	49	50	57	57	56
1996	57	57	57	55	54	53	52	53	56	55	56	57
1997	59	58	56	53	51	49	49	52	53	54	55	57
1998	59	60	57	54	54	53	52	51	51	56	57	57
1999	58	57	55	52	52	52	52	53	54	56	58	61
2000	63	63	59	56	56	56	53	53	54	56	59	63
2001	65	61	57	55	54	54	53	52	54	57	61	65
2002	65	64	58	55	54	55	54	53	53	56	61	64
2003	65	63	59	56	56	56	55	53	54	57	60	64

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Change in Average Simulated Friant-Kern Canal at Friant Dam Deg. F
Alternative2 (2030) - No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					6	5	2	-2	-4	-3	-7	-8
1981	-6	-2	-1	1	2	4	2	0	-5	-10	-10	-4
1982	2	2	3	4	5	5	3	-2	-5	-5	-8	-7
1983	-3	-1	-1	1	2	2	-2	-6	3	1	-6	-10
1984	-10	-6	-2	2	4	4	2	-2	-5	-10	-12	-10
1985	-4	0	1	2	3	3	2	0	-4	-11	-12	-2
1986	1	3	2	4	5	6	2	-3	-5	-6	-9	-10
1987	-5	-2	-1	1	2	4	2	0	-4	-11	-12	-5
1988	-2	2	3	4	4	3	1	-2	-7	-12	-11	-7
1989	-1	2	3	4	3	2	0	-1	-6	-10	-9	-5
1990	-1	2	3	3	3	2	1	-1	-9	-13	-12	-6
1991	-1	2	3	3	5	0	-1	-1	-3	-7	-9	-4
1992	-2	2	3	4	3	3	1	-1	-7	-12	-9	-4
1993	-1	2	3	5	7	6	0	-3	-1	-3	-5	-6
1994	-2	0	1	2	2	3	2	-1	-4	-9	-10	-3
1995	0	2	2	4	6	6	0	-4	-4	1	-4	-8
1996	-8	-5	-1	1	5	6	1	-1	-2	-7	-12	-11
1997	-6	-1	0	5	3	1	-2	-3	-5	-10	-14	-11
1998	-4	0	1	3	6	5	2	-2	-4	-1	-5	-9
1999	-6	-2	-1	1	4	4	1	-2	-3	-6	-9	-7
2000	-2	1	2	3	7	6	2	-1	-3	-6	-8	-5
2001	0	2	2	3	3	4	1	-2	-4	-9	-9	-3
2002	0	2	3	4	5	4	2	-1	-4	-9	-10	-5
2003	0	2	2	4	6	6	2	-3	-3	-6	-8	-4

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Percent Change in Average Simulated Friant-Kern Canal at Friant Dam Deg. F
From No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					12%	11%	4%	-4%	-7%	-6%	-11%	-12%
1981	-9%	-4%	-1%	1%	4%	7%	5%	-1%	-8%	-15%	-15%	-5%
1982	4%	4%	5%	8%	10%	11%	5%	-4%	-8%	-9%	-13%	-12%
1983	-5%	-3%	-1%	3%	5%	4%	-4%	-11%	5%	1%	-10%	-16%
1984	-15%	-10%	-4%	4%	8%	7%	4%	-3%	-9%	-16%	-17%	-15%
1985	-6%	1%	2%	5%	6%	7%	3%	-1%	-7%	-17%	-17%	-3%
1986	1%	4%	4%	7%	10%	12%	3%	-6%	-9%	-10%	-14%	-14%
1987	-9%	-4%	-1%	2%	5%	7%	5%	0%	-7%	-17%	-18%	-8%
1988	-3%	4%	6%	9%	8%	5%	2%	-4%	-11%	-18%	-16%	-9%
1989	-2%	3%	5%	8%	7%	3%	1%	-2%	-11%	-15%	-13%	-7%
1990	-1%	4%	5%	6%	6%	4%	2%	-3%	-15%	-19%	-16%	-8%
1991	-1%	4%	5%	6%	10%	0%	-2%	-3%	-5%	-11%	-13%	-5%
1992	-3%	4%	6%	7%	6%	5%	3%	-2%	-11%	-18%	-13%	-5%
1993	-1%	4%	5%	10%	15%	13%	0%	-5%	-3%	-5%	-8%	-8%
1994	-4%	1%	2%	4%	5%	7%	3%	-2%	-8%	-14%	-14%	-5%
1995	1%	4%	4%	8%	13%	12%	0%	-8%	-7%	2%	-7%	-13%
1996	-13%	-8%	-2%	2%	11%	12%	2%	-2%	-3%	-11%	-18%	-16%
1997	-9%	-2%	0%	11%	7%	2%	-3%	-5%	-9%	-16%	-20%	-16%
1998	-6%	0%	2%	6%	12%	10%	5%	-5%	-7%	-2%	-8%	-13%
1999	-10%	-4%	-1%	2%	8%	9%	2%	-3%	-6%	-10%	-14%	-10%
2000	-4%	1%	3%	6%	13%	13%	3%	-2%	-5%	-10%	-12%	-7%
2001	0%	4%	5%	5%	5%	8%	2%	-4%	-7%	-14%	-13%	-5%
2002	0%	4%	5%	8%	10%	9%	5%	-1%	-7%	-14%	-14%	-7%
2003	0%	4%	4%	7%	12%	11%	4%	-5%	-5%	-9%	-12%	-6%

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated Friant-Kern Canal at Friant Dam Deg. F
No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					48	48	50	52	55	57	62	65
1981	64	60	56	52	50	49	50	53	58	65	70	68
1982	63	59	55	50	47	47	48	51	54	58	63	64
1983	62	59	55	50	48	48	52	57	51	54	60	64
1984	64	62	57	51	48	48	51	55	58	64	67	68
1985	64	59	54	50	48	48	51	53	57	65	70	65
1986	63	58	54	50	49	48	49	51	55	59	64	66
1987	63	60	56	52	50	49	50	52	56	65	70	68
1988	66	60	54	49	48	49	51	53	58	66	71	69
1989	65	61	55	49	49	51	52	53	58	65	70	68
1990	64	59	55	51	49	50	51	53	61	68	71	68
1991	65	59	53	50	48	54	55	58	59	64	69	67
1992	66	60	54	50	49	50	51	53	59	67	71	68
1993	66	61	55	49	46	47	51	54	54	58	63	66
1994	64	60	55	51	50	49	51	53	57	63	69	67
1995	63	58	53	49	47	47	51	53	54	56	61	65
1996	65	62	58	54	49	47	51	54	57	62	68	69
1997	65	59	56	48	48	48	51	55	59	64	69	68
1998	63	60	56	51	48	48	49	53	55	57	62	66
1999	64	59	55	51	48	48	51	54	57	62	67	68
2000	66	62	57	53	50	49	52	55	57	62	68	68
2001	65	59	54	52	51	50	52	55	58	66	70	68
2002	65	61	55	51	49	51	52	53	58	65	70	69
2003	65	61	57	53	50	51	53	56	57	62	69	68

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated Friant-Kern Canal at Friant Dam Deg. F
Alternative3 (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					53	53	52	50	51	53	56	58
1981	59	58	55	53	52	53	53	53	53	55	60	65
1982	65	61	57	53	52	52	50	49	50	52	55	56
1983	58	58	55	52	50	50	50	51	53	54	54	53
1984	54	56	55	53	52	52	53	53	53	54	56	58
1985	61	59	56	53	52	52	52	52	53	54	60	64
1986	64	61	56	54	54	53	51	48	50	53	54	56
1987	58	58	55	53	53	53	52	52	53	54	58	63
1988	64	62	57	53	52	52	52	51	51	54	60	63
1989	64	62	57	53	52	52	52	52	52	55	61	63
1990	63	62	57	54	53	52	52	51	52	55	59	63
1991	64	61	56	53	53	54	54	57	56	57	61	64
1992	64	63	57	53	52	53	52	52	52	56	62	64
1993	65	63	58	54	53	53	51	51	53	56	58	61
1994	63	61	57	53	53	53	52	52	52	54	59	64
1995	64	60	55	53	53	53	51	49	51	57	57	56
1996	57	58	57	55	54	53	52	53	56	55	56	58
1997	59	58	56	53	51	49	49	52	54	54	56	57
1998	60	60	57	54	54	53	52	51	52	56	57	57
1999	58	57	55	52	52	52	52	53	54	56	59	62
2000	64	63	59	56	56	56	53	53	55	57	60	64
2001	65	61	57	55	54	54	53	52	54	57	62	65
2002	65	64	59	55	54	55	55	52	53	56	61	64
2003	65	63	59	57	56	56	55	53	54	57	61	64

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Change in Average Simulated Friant-Kern Canal at Friant Dam Deg. F
Alternative3 (2030) - No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					6	5	2	-2	-4	-3	-6	-7
1981	-6	-2	-1	1	2	4	2	0	-5	-9	-9	-3
1982	2	2	2	4	4	5	3	-2	-5	-5	-8	-8
1983	-4	-2	-1	1	2	2	-2	-6	3	1	-6	-10
1984	-10	-6	-2	2	4	4	2	-1	-5	-10	-11	-10
1985	-3	1	1	2	3	3	2	0	-4	-10	-10	-1
1986	1	3	2	4	5	6	2	-3	-5	-6	-9	-10
1987	-6	-2	-1	1	2	4	2	0	-4	-11	-12	-5
1988	-2	2	3	4	4	3	1	-2	-7	-12	-11	-6
1989	-1	2	3	4	3	2	0	-1	-6	-10	-9	-5
1990	-1	2	3	3	3	2	1	-1	-9	-13	-12	-5
1991	-1	2	3	3	5	0	-1	-2	-3	-7	-9	-3
1992	-2	2	3	4	3	3	1	-1	-7	-12	-9	-4
1993	-1	2	3	5	7	6	0	-3	-1	-2	-5	-5
1994	-2	0	1	2	2	3	2	-1	-4	-9	-10	-3
1995	0	2	2	4	6	6	0	-4	-4	1	-4	-8
1996	-8	-5	-1	1	5	6	1	-1	-1	-7	-12	-11
1997	-6	-1	0	5	3	1	-2	-3	-5	-10	-13	-11
1998	-3	0	1	3	6	5	2	-2	-3	-1	-6	-9
1999	-7	-2	-1	1	4	4	1	-2	-3	-6	-8	-6
2000	-2	1	2	3	7	6	2	-1	-3	-5	-7	-4
2001	0	2	2	3	3	4	1	-2	-4	-9	-9	-3
2002	0	2	3	4	5	5	2	-1	-4	-9	-9	-5
2003	0	2	2	4	6	6	2	-3	-2	-5	-8	-4

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Percent Change in Average Simulated Friant-Kern Canal at Friant Dam Deg. F
From No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					12%	11%	4%	-4%	-7%	-6%	-10%	-11%
1981	-9%	-4%	-1%	1%	4%	7%	5%	-1%	-8%	-14%	-13%	-4%
1982	3%	4%	4%	7%	9%	11%	5%	-4%	-8%	-9%	-13%	-12%
1983	-6%	-3%	-1%	2%	5%	4%	-4%	-11%	6%	2%	-9%	-16%
1984	-16%	-10%	-4%	4%	8%	7%	4%	-3%	-9%	-15%	-17%	-14%
1985	-5%	1%	2%	5%	6%	7%	3%	-1%	-7%	-16%	-15%	-2%
1986	1%	5%	4%	7%	10%	12%	3%	-6%	-9%	-10%	-15%	-15%
1987	-9%	-4%	-1%	2%	5%	7%	5%	0%	-7%	-17%	-17%	-7%
1988	-3%	4%	6%	9%	8%	5%	2%	-4%	-11%	-18%	-16%	-9%
1989	-2%	3%	5%	8%	7%	3%	1%	-2%	-11%	-15%	-13%	-7%
1990	-1%	4%	5%	6%	6%	4%	2%	-3%	-15%	-19%	-16%	-8%
1991	-1%	4%	5%	6%	10%	0%	-2%	-3%	-5%	-11%	-13%	-5%
1992	-3%	4%	6%	7%	6%	5%	3%	-2%	-11%	-18%	-13%	-5%
1993	-1%	4%	5%	10%	15%	13%	0%	-5%	-2%	-3%	-7%	-7%
1994	-3%	1%	2%	4%	5%	7%	3%	-2%	-8%	-14%	-14%	-5%
1995	1%	4%	4%	9%	13%	12%	0%	-8%	-7%	2%	-6%	-13%
1996	-12%	-7%	-2%	2%	11%	12%	2%	-2%	-2%	-11%	-17%	-16%
1997	-9%	-1%	0%	11%	7%	2%	-3%	-5%	-9%	-16%	-19%	-16%
1998	-5%	0%	2%	6%	12%	10%	5%	-4%	-6%	-2%	-9%	-13%
1999	-10%	-4%	-1%	2%	7%	9%	2%	-3%	-5%	-10%	-12%	-9%
2000	-3%	2%	3%	6%	13%	13%	3%	-2%	-5%	-8%	-11%	-6%
2001	0%	4%	5%	5%	6%	8%	2%	-4%	-7%	-13%	-12%	-5%
2002	0%	4%	6%	8%	10%	9%	5%	-1%	-8%	-13%	-13%	-7%
2003	0%	4%	4%	7%	12%	12%	4%	-5%	-4%	-9%	-11%	-6%

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated Friant-Kern Canal at Friant Dam Deg. F
No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					48	48	50	52	55	57	62	65
1981	64	60	56	52	50	49	50	53	58	65	70	68
1982	63	59	55	50	47	47	48	51	54	58	63	64
1983	62	59	55	50	48	48	52	57	51	54	60	64
1984	64	62	57	51	48	48	51	55	58	64	67	68
1985	64	59	54	50	48	48	51	53	57	65	70	65
1986	63	58	54	50	49	48	49	51	55	59	64	66
1987	63	60	56	52	50	49	50	52	56	65	70	68
1988	66	60	54	49	48	49	51	53	58	66	71	69
1989	65	61	55	49	49	51	52	53	58	65	70	68
1990	64	59	55	51	49	50	51	53	61	68	71	68
1991	65	59	53	50	48	54	55	58	59	64	69	67
1992	66	60	54	50	49	50	51	53	59	67	71	68
1993	66	61	55	49	46	47	51	54	54	58	63	66
1994	64	60	55	51	50	49	51	53	57	63	69	67
1995	63	58	53	49	47	47	51	53	54	56	61	65
1996	65	62	58	54	49	47	51	54	57	62	68	69
1997	65	59	56	48	48	48	51	55	59	64	69	68
1998	63	60	56	51	48	48	49	53	55	57	62	66
1999	64	59	55	51	48	48	51	54	57	62	67	68
2000	66	62	57	53	50	49	52	55	57	62	68	68
2001	65	59	54	52	51	50	52	55	58	66	70	68
2002	65	61	55	51	49	51	52	53	58	65	70	69
2003	65	61	57	53	50	51	53	56	57	62	69	68

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated Friant-Kern Canal at Friant Dam Deg. F
Alternative4 (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					51	52	51	53	55	57	58	53
1981	52	54	53	51	51	52	52	53	56	60	63	55
1982	56	59	55	52	51	51	50	51	54	56	58	52
1983	51	53	53	51	50	50	50	52	54	55	57	54
1984	53	53	54	52	51	51	53	55	56	59	61	54
1985	53	54	53	51	50	51	52	53	55	60	58	55
1986	57	59	55	53	53	53	51	52	55	57	59	53
1987	51	52	53	51	51	51	51	53	55	60	57	54
1988	55	58	55	51	51	51	51	51	52	55	60	57
1989	60	61	57	52	51	52	52	52	54	56	61	58
1990	60	61	56	53	52	52	52	52	53	57	62	60
1991	59	60	55	52	52	53	54	57	57	59	62	60
1992	62	62	56	53	52	52	52	53	58	57	62	60
1993	60	62	57	53	53	53	51	54	55	57	59	54
1994	56	58	55	52	52	52	52	53	57	60	57	56
1995	58	59	54	52	52	52	51	52	55	58	59	54
1996	53	54	55	54	53	53	51	55	58	59	62	56
1997	53	55	54	52	50	49	49	54	56	59	63	55
1998	52	52	53	52	52	51	50	56	56	59	60	55
1999	53	55	53	51	51	52	52	55	59	60	59	55
2000	55	59	56	55	55	55	53	55	57	60	64	57
2001	56	58	55	53	53	53	52	54	58	61	59	57
2002	60	62	57	54	53	54	54	55	59	61	58	56
2003	58	61	58	55	55	55	54	54	57	61	59	57

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Change in Average Simulated Friant-Kern Canal at Friant Dam Deg. F
Alternative4 (2030) - No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					4	4	1	1	0	0	-4	-11
1981	-12	-6	-3	-1	1	3	2	0	-2	-5	-7	-12
1982	-7	0	0	2	3	4	2	0	0	-2	-5	-12
1983	-10	-6	-3	0	2	2	-2	-5	3	1	-3	-9
1984	-12	-9	-3	1	3	3	2	0	-2	-5	-6	-14
1985	-11	-4	-1	0	2	2	1	0	-1	-5	-12	-11
1986	-6	1	1	2	4	5	1	0	1	-2	-5	-13
1987	-13	-8	-3	-1	1	2	1	1	-1	-5	-13	-14
1988	-10	-2	1	3	3	1	0	-2	-6	-11	-11	-12
1989	-5	1	2	3	3	1	0	-1	-4	-9	-9	-10
1990	-4	1	2	2	3	2	1	-1	-8	-10	-9	-8
1991	-6	1	2	2	4	-1	-1	-1	-2	-5	-7	-7
1992	-4	1	2	3	3	2	1	1	0	-10	-9	-8
1993	-6	1	2	4	6	5	0	0	1	-1	-4	-11
1994	-9	-2	-1	1	2	3	1	1	1	-4	-12	-11
1995	-6	1	1	3	5	5	0	0	1	2	-2	-10
1996	-12	-8	-3	0	4	5	0	1	1	-3	-6	-13
1997	-12	-5	-2	4	2	1	-2	0	-2	-5	-6	-13
1998	-12	-8	-2	1	4	4	1	3	0	2	-2	-11
1999	-11	-5	-2	0	3	3	1	1	2	-2	-8	-13
2000	-11	-3	0	1	5	5	1	0	0	-2	-4	-10
2001	-9	-1	0	1	2	3	1	0	0	-5	-11	-11
2002	-6	1	2	3	4	4	2	2	1	-3	-12	-13
2003	-7	1	1	3	5	5	1	-2	0	-2	-10	-11

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Percent Change in Average Simulated Friant-Kern Canal at Friant Dam Deg. F
From No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					8%	8%	3%	2%	-1%	1%	-6%	-18%
1981	-19%	-11%	-5%	-2%	2%	6%	4%	1%	-4%	-8%	-10%	-18%
1982	-11%	0%	1%	5%	7%	9%	5%	1%	0%	-3%	-8%	-19%
1983	-17%	-10%	-5%	1%	4%	4%	-4%	-9%	6%	2%	-5%	-15%
1984	-18%	-14%	-5%	3%	7%	7%	3%	0%	-3%	-8%	-8%	-20%
1985	-17%	-7%	-2%	1%	4%	5%	2%	1%	-2%	-8%	-17%	-16%
1986	-9%	1%	2%	5%	8%	10%	2%	1%	1%	-4%	-8%	-20%
1987	-20%	-13%	-6%	-2%	2%	5%	3%	1%	-1%	-8%	-19%	-20%
1988	-16%	-3%	3%	6%	6%	3%	0%	-4%	-10%	-16%	-15%	-17%
1989	-8%	1%	3%	6%	6%	2%	0%	-1%	-7%	-14%	-13%	-15%
1990	-7%	2%	3%	5%	5%	3%	1%	-2%	-13%	-15%	-13%	-12%
1991	-9%	2%	3%	4%	8%	-1%	-2%	-1%	-3%	-8%	-11%	-10%
1992	-7%	2%	4%	7%	6%	5%	3%	1%	-1%	-15%	-13%	-12%
1993	-9%	2%	3%	8%	14%	11%	0%	0%	1%	-2%	-6%	-17%
1994	-13%	-4%	-1%	1%	3%	6%	3%	1%	1%	-6%	-17%	-17%
1995	-9%	2%	2%	7%	11%	10%	-1%	-1%	2%	3%	-4%	-16%
1996	-19%	-13%	-5%	0%	9%	11%	1%	1%	1%	-5%	-9%	-18%
1997	-18%	-8%	-3%	8%	5%	2%	-4%	-1%	-4%	-8%	-9%	-19%
1998	-18%	-13%	-4%	2%	9%	7%	3%	5%	1%	4%	-4%	-17%
1999	-17%	-8%	-4%	0%	6%	7%	1%	2%	4%	-3%	-12%	-19%
2000	-17%	-5%	-1%	2%	10%	11%	2%	1%	-1%	-4%	-6%	-15%
2001	-14%	-1%	1%	2%	3%	6%	1%	-1%	0%	-7%	-16%	-16%
2002	-9%	1%	3%	6%	8%	7%	4%	3%	3%	-5%	-17%	-18%
2003	-10%	1%	2%	5%	10%	9%	2%	-4%	0%	-3%	-14%	-16%

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated Madera Canal at Friant Dam Deg. F
Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					47	47	49	51	54	56	60	63
1981	63	60	51	52	49	39	41	51	56	62	66	65
1982	46	32	32	40	46	45	47	50	53	57	60	63
1983	60	59	55	50	47	46	50	56	50	53	58	62
1984	63	61	56	48	46	47	49	53	56	60	65	65
1985	63	59	41	32	32	32	41	51	54	60	66	63
1986	46	32	32	40	48	47	48	50	54	57	61	64
1987	62	60	43	32	32	32	41	51	54	59	65	64
1988	46	32	32	32	32	32	40	50	54	60	65	65
1989	46	32	32	32	32	32	41	51	55	61	65	64
1990	46	32	32	32	32	32	41	51	55	63	66	65
1991	47	32	32	32	32	32	43	57	56	60	64	64
1992	47	32	32	32	32	32	41	51	54	62	66	66
1993	47	32	32	39	45	46	48	51	53	56	60	63
1994	63	60	42	32	32	32	41	51	54	60	65	64
1995	46	32	41	48	45	45	49	51	54	56	60	63
1996	64	62	58	52	47	47	49	52	56	59	65	66
1997	64	59	56	48	47	47	49	54	57	61	65	66
1998	64	46	32	41	48	47	49	52	55	57	60	64
1999	63	59	55	50	47	39	41	52	55	59	64	65
2000	47	32	32	32	40	48	50	53	56	59	65	65
2001	64	59	54	52	50	39	41	52	56	62	66	65
2002	47	32	32	32	32	32	41	51	54	60	66	66
2003	47	32	32	32	32	32	42	53	55	59	65	65

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated Madera Canal at Friant Dam Deg. F
Alternative1 (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					52	52	50	49	51	54	54	55
1981	56	57	54	52	52	52	52	52	52	54	57	62
1982	64	61	41	32	42	50	49	48	49	52	53	55
1983	56	57	54	52	41	41	49	51	53	54	53	53
1984	54	55	55	52	52	51	51	52	52	52	54	56
1985	58	58	55	52	51	41	44	51	52	53	56	61
1986	46	32	32	32	43	53	49	48	51	52	53	55
1987	56	57	55	52	52	41	44	51	52	53	56	59
1988	45	32	32	32	32	32	45	50	50	53	57	60
1989	45	32	32	32	32	32	46	50	51	54	58	61
1990	46	32	32	32	32	32	45	51	51	53	57	60
1991	45	32	32	32	32	32	44	53	54	57	60	62
1992	46	32	32	32	32	32	44	51	51	54	58	63
1993	46	32	32	32	43	52	48	49	50	53	55	58
1994	59	59	43	32	32	32	46	51	52	53	56	60
1995	46	32	32	32	32	43	48	48	50	56	56	55
1996	56	57	57	55	53	52	51	53	54	54	55	57
1997	58	58	56	53	50	48	48	51	52	52	54	56
1998	58	59	56	54	43	44	50	50	51	58	56	56
1999	57	57	54	52	52	52	51	52	52	54	56	59
2000	61	62	44	32	45	53	51	52	53	55	58	61
2001	64	61	57	55	54	41	45	51	53	56	59	63
2002	47	32	32	32	32	32	45	51	52	54	59	62
2003	46	32	32	32	32	32	45	52	53	56	59	62

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Change in Average Simulated Madera Canal at Friant Dam Deg. F
Alternative1 (2005) - Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					6	4	1	-1	-2	-3	-6	-8
1981	-6	-3	3	1	3	13	11	0	-3	-8	-9	-4
1982	18	29	9	-8	-4	5	2	-3	-5	-5	-7	-8
1983	-4	-2	-1	2	-6	-5	-1	-5	3	1	-5	-9
1984	-9	-7	-2	4	5	4	2	-1	-4	-8	-10	-9
1985	-5	-1	15	20	19	9	4	0	-2	-7	-10	-2
1986	0	0	0	-8	-5	5	1	-2	-3	-5	-8	-9
1987	-6	-3	11	20	20	9	3	1	-2	-6	-9	-5
1988	-1	0	0	0	0	0	5	0	-3	-7	-9	-5
1989	-1	0	0	0	0	0	5	-1	-4	-8	-7	-3
1990	0	0	0	0	0	0	4	0	-5	-10	-9	-5
1991	-1	0	0	0	0	0	2	-3	-2	-3	-4	-2
1992	-1	0	0	0	0	0	3	0	-3	-9	-8	-3
1993	-1	0	0	-7	-2	6	0	-2	-2	-4	-5	-6
1994	-4	-1	1	0	0	0	6	0	-2	-6	-9	-4
1995	-1	0	-9	-16	-13	-2	0	-4	-4	1	-3	-8
1996	-8	-5	-2	2	6	5	1	0	-2	-5	-10	-9
1997	-6	-1	0	4	3	2	-1	-3	-6	-9	-11	-9
1998	-5	14	24	13	-5	-3	2	-2	-4	1	-4	-8
1999	-6	-2	-1	2	5	13	11	0	-3	-6	-8	-6
2000	14	30	12	0	4	6	1	-1	-3	-4	-7	-3
2001	0	2	2	3	4	2	4	-1	-3	-6	-7	-2
2002	0	0	0	0	0	0	4	-1	-2	-6	-8	-4
2003	0	0	0	0	0	0	3	-1	-2	-3	-6	-3

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Percent Change in Average Simulated Madera Canal at Friant Dam Deg. F
From Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					12%	9%	2%	-3%	-5%	-5%	-10%	-12%
1981	-10%	-6%	6%	1%	6%	33%	27%	0%	-6%	-13%	-13%	-5%
1982	39%	92%	29%	-19%	-8%	11%	4%	-5%	-9%	-9%	-12%	-12%
1983	-6%	-4%	-2%	4%	-13%	-11%	-2%	-8%	6%	2%	-8%	-14%
1984	-14%	-11%	-3%	9%	12%	9%	4%	-2%	-7%	-13%	-16%	-13%
1985	-7%	-1%	36%	64%	60%	27%	9%	0%	-4%	-11%	-15%	-4%
1986	1%	0%	0%	-21%	-10%	11%	1%	-5%	-6%	-9%	-13%	-13%
1987	-9%	-6%	26%	64%	62%	28%	8%	1%	-3%	-10%	-14%	-9%
1988	-2%	0%	0%	0%	0%	0%	13%	0%	-6%	-12%	-13%	-8%
1989	-2%	0%	0%	0%	0%	0%	13%	-2%	-7%	-12%	-10%	-5%
1990	-1%	0%	0%	0%	0%	0%	10%	0%	-9%	-16%	-14%	-7%
1991	-3%	0%	0%	0%	0%	0%	4%	-6%	-4%	-5%	-7%	-3%
1992	-1%	0%	0%	0%	0%	0%	8%	0%	-6%	-14%	-12%	-5%
1993	-1%	0%	0%	-18%	-5%	14%	0%	-5%	-5%	-7%	-8%	-9%
1994	-6%	-2%	2%	0%	0%	0%	14%	0%	-4%	-10%	-14%	-6%
1995	-1%	0%	-22%	-33%	-29%	-5%	-1%	-7%	-7%	1%	-6%	-13%
1996	-13%	-9%	-3%	4%	14%	11%	3%	1%	-3%	-9%	-16%	-14%
1997	-9%	-2%	0%	9%	5%	3%	-2%	-5%	-10%	-15%	-17%	-14%
1998	-8%	30%	76%	33%	-10%	-6%	3%	-4%	-7%	2%	-7%	-13%
1999	-10%	-4%	-1%	3%	11%	34%	26%	0%	-5%	-10%	-12%	-10%
2000	29%	93%	38%	0%	11%	12%	3%	-2%	-6%	-7%	-10%	-5%
2001	0%	4%	4%	6%	8%	6%	11%	-2%	-5%	-10%	-11%	-3%
2002	0%	0%	0%	0%	0%	0%	10%	-1%	-5%	-10%	-12%	-6%
2003	-1%	0%	0%	0%	0%	0%	8%	-3%	-3%	-5%	-9%	-4%

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated Madera Canal at Friant Dam Deg. F
Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					47	47	49	51	54	56	60	63
1981	63	60	51	52	49	39	41	51	56	62	66	65
1982	46	32	32	40	46	45	47	50	53	57	60	63
1983	60	59	55	50	47	46	50	56	50	53	58	62
1984	63	61	56	48	46	47	49	53	56	60	65	65
1985	63	59	41	32	32	32	41	51	54	60	66	63
1986	46	32	32	40	48	47	48	50	54	57	61	64
1987	62	60	43	32	32	32	41	51	54	59	65	64
1988	46	32	32	32	32	32	40	50	54	60	65	65
1989	46	32	32	32	32	32	41	51	55	61	65	64
1990	46	32	32	32	32	32	41	51	55	63	66	65
1991	47	32	32	32	32	32	43	57	56	60	64	64
1992	47	32	32	32	32	32	41	51	54	62	66	66
1993	47	32	32	39	45	46	48	51	53	56	60	63
1994	63	60	42	32	32	32	41	51	54	60	65	64
1995	46	32	41	48	45	45	49	51	54	56	60	63
1996	64	62	58	52	47	47	49	52	56	59	65	66
1997	64	59	56	48	47	47	49	54	57	61	65	66
1998	64	46	32	41	48	47	49	52	55	57	60	64
1999	63	59	55	50	47	39	41	52	55	59	64	65
2000	47	32	32	32	40	48	50	53	56	59	65	65
2001	64	59	54	52	50	39	41	52	56	62	66	65
2002	47	32	32	32	32	32	41	51	54	60	66	66
2003	47	32	32	32	32	32	42	53	55	59	65	65

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated Madera Canal at Friant Dam Deg. F
Alternative2 (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					53	51	50	49	51	53	54	55
1981	57	57	55	53	52	52	52	51	52	54	57	61
1982	64	46	32	32	42	50	49	48	49	52	53	55
1983	56	57	54	52	41	41	49	51	53	54	53	53
1984	54	55	55	52	52	51	51	52	52	52	54	56
1985	58	58	55	52	51	41	44	51	52	53	56	60
1986	46	32	32	32	43	53	49	48	51	52	53	55
1987	56	57	55	52	52	41	44	51	52	53	55	59
1988	45	32	32	32	32	32	46	50	50	53	56	60
1989	45	32	32	32	32	32	46	50	51	54	58	61
1990	46	32	32	32	32	32	45	50	51	53	57	60
1991	45	32	32	32	32	32	44	53	54	57	60	62
1992	46	32	32	32	32	32	44	51	51	54	58	63
1993	46	32	32	32	43	52	48	49	50	53	55	57
1994	59	59	43	32	32	32	47	51	52	53	57	60
1995	46	32	32	32	32	43	48	48	50	56	56	55
1996	56	57	57	55	54	52	51	53	54	54	55	57
1997	58	58	56	53	50	48	48	51	52	52	54	56
1998	59	59	56	54	43	45	50	50	51	57	56	56
1999	57	57	54	52	52	52	51	52	52	54	56	58
2000	60	61	44	32	45	54	51	52	53	55	58	61
2001	63	61	57	55	54	41	46	51	53	56	59	63
2002	47	32	32	32	32	32	45	51	52	54	59	62
2003	46	32	32	32	32	32	45	52	53	56	59	62

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Change in Average Simulated Madera Canal at Friant Dam Deg. F
Alternative2 (2005) - Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					6	4	1	-1	-3	-3	-6	-8
1981	-6	-3	3	1	3	13	11	0	-3	-8	-9	-4
1982	18	14	0	-8	-4	5	2	-3	-5	-5	-7	-8
1983	-4	-2	-1	2	-6	-5	-1	-5	3	1	-5	-9
1984	-9	-7	-2	4	5	4	2	-1	-4	-8	-11	-9
1985	-5	-1	15	20	19	9	4	0	-2	-7	-10	-3
1986	0	0	0	-8	-5	5	1	-2	-3	-5	-8	-9
1987	-5	-3	11	20	20	9	3	1	-2	-6	-10	-6
1988	-1	0	0	0	0	0	5	0	-3	-7	-9	-5
1989	-1	0	0	0	0	0	5	-1	-4	-8	-7	-3
1990	0	0	0	0	0	0	4	0	-5	-10	-9	-5
1991	-1	0	0	0	0	0	2	-3	-2	-3	-5	-2
1992	-1	0	0	0	0	0	3	0	-3	-9	-8	-3
1993	-1	0	0	-7	-2	6	0	-2	-2	-4	-5	-6
1994	-4	-1	1	0	0	0	6	0	-2	-6	-9	-4
1995	0	0	-9	-16	-13	-2	0	-4	-4	1	-3	-8
1996	-8	-5	-2	2	6	5	2	0	-2	-5	-10	-9
1997	-6	-1	0	5	3	2	-1	-3	-6	-9	-11	-9
1998	-5	14	24	14	-5	-3	2	-2	-4	1	-4	-8
1999	-6	-3	-1	2	5	13	11	0	-3	-6	-8	-7
2000	13	29	12	0	5	6	1	-1	-3	-4	-7	-4
2001	0	2	2	3	4	2	5	-1	-3	-6	-7	-2
2002	0	0	0	0	0	0	4	-1	-3	-6	-7	-4
2003	0	0	0	0	0	0	4	-1	-2	-3	-6	-4

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Percent Change in Average Simulated Madera Canal at Friant Dam Deg. F
From Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					12%	9%	1%	-3%	-6%	-5%	-10%	-12%
1981	-10%	-5%	6%	1%	6%	33%	27%	0%	-6%	-13%	-14%	-6%
1982	38%	44%	0%	-19%	-8%	11%	4%	-5%	-9%	-10%	-12%	-13%
1983	-7%	-4%	-2%	4%	-13%	-11%	-2%	-8%	6%	2%	-8%	-14%
1984	-14%	-11%	-3%	9%	12%	9%	4%	-2%	-7%	-13%	-16%	-14%
1985	-7%	-1%	36%	64%	60%	27%	9%	0%	-4%	-11%	-15%	-5%
1986	0%	0%	0%	-21%	-10%	12%	1%	-5%	-5%	-9%	-13%	-13%
1987	-9%	-5%	26%	64%	63%	28%	8%	1%	-3%	-10%	-15%	-9%
1988	-2%	0%	0%	0%	0%	0%	13%	0%	-6%	-12%	-14%	-8%
1989	-2%	0%	0%	0%	0%	0%	13%	-2%	-7%	-12%	-10%	-5%
1990	-1%	0%	0%	0%	0%	0%	10%	0%	-9%	-16%	-14%	-7%
1991	-3%	0%	0%	0%	0%	0%	4%	-6%	-4%	-5%	-7%	-4%
1992	-1%	0%	0%	0%	0%	0%	8%	0%	-6%	-14%	-12%	-5%
1993	-1%	0%	0%	-18%	-5%	13%	0%	-5%	-4%	-7%	-8%	-9%
1994	-6%	-2%	2%	0%	0%	0%	14%	0%	-4%	-10%	-13%	-6%
1995	-1%	0%	-22%	-33%	-29%	-5%	-1%	-7%	-7%	1%	-6%	-13%
1996	-13%	-8%	-3%	5%	14%	11%	3%	1%	-3%	-9%	-16%	-14%
1997	-9%	-2%	0%	9%	5%	3%	-2%	-5%	-10%	-15%	-17%	-14%
1998	-8%	30%	77%	33%	-10%	-6%	3%	-5%	-8%	1%	-7%	-13%
1999	-10%	-4%	-2%	3%	10%	33%	26%	0%	-5%	-9%	-13%	-10%
2000	28%	92%	38%	0%	11%	12%	3%	-2%	-6%	-7%	-10%	-6%
2001	-1%	3%	4%	6%	8%	6%	11%	-2%	-5%	-10%	-11%	-3%
2002	0%	0%	0%	0%	0%	0%	10%	-1%	-5%	-10%	-11%	-6%
2003	-1%	0%	0%	0%	0%	0%	9%	-2%	-3%	-6%	-9%	-6%

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated Madera Canal at Friant Dam Deg. F
Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					47	47	49	51	54	56	60	63
1981	63	60	51	52	49	39	41	51	56	62	66	65
1982	46	32	32	40	46	45	47	50	53	57	60	63
1983	60	59	55	50	47	46	50	56	50	53	58	62
1984	63	61	56	48	46	47	49	53	56	60	65	65
1985	63	59	41	32	32	32	41	51	54	60	66	63
1986	46	32	32	40	48	47	48	50	54	57	61	64
1987	62	60	43	32	32	32	41	51	54	59	65	64
1988	46	32	32	32	32	32	40	50	54	60	65	65
1989	46	32	32	32	32	32	41	51	55	61	65	64
1990	46	32	32	32	32	32	41	51	55	63	66	65
1991	47	32	32	32	32	32	43	57	56	60	64	64
1992	47	32	32	32	32	32	41	51	54	62	66	66
1993	47	32	32	39	45	46	48	51	53	56	60	63
1994	63	60	42	32	32	32	41	51	54	60	65	64
1995	46	32	41	48	45	45	49	51	54	56	60	63
1996	64	62	58	52	47	47	49	52	56	59	65	66
1997	64	59	56	48	47	47	49	54	57	61	65	66
1998	64	46	32	41	48	47	49	52	55	57	60	64
1999	63	59	55	50	47	39	41	52	55	59	64	65
2000	47	32	32	32	40	48	50	53	56	59	65	65
2001	64	59	54	52	50	39	41	52	56	62	66	65
2002	47	32	32	32	32	32	41	51	54	60	66	66
2003	47	32	32	32	32	32	42	53	55	59	65	65

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated Madera Canal at Friant Dam Deg. F
Alternative3 (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					53	52	49	49	51	52	55	57
1981	58	58	55	53	52	41	43	51	52	54	59	63
1982	47	32	32	32	42	50	48	48	49	52	54	56
1983	58	57	55	52	50	50	49	51	53	54	53	53
1984	54	55	55	52	52	51	51	51	52	53	55	58
1985	60	59	56	53	51	41	44	51	52	54	57	62
1986	46	32	32	32	43	53	48	48	49	52	54	56
1987	57	58	55	53	52	41	44	51	52	53	56	60
1988	46	32	32	32	32	32	46	50	51	53	56	60
1989	45	32	32	32	32	32	46	50	51	54	58	61
1990	46	32	32	32	32	32	45	51	51	53	56	60
1991	45	32	32	32	32	32	44	54	54	56	59	62
1992	46	32	32	32	32	32	44	50	51	54	59	63
1993	46	32	32	32	43	52	48	49	51	54	58	60
1994	62	61	44	32	32	32	47	50	51	54	57	62
1995	46	32	32	32	32	43	48	48	49	56	56	55
1996	56	57	57	55	54	52	51	52	54	54	55	57
1997	59	58	56	53	50	48	48	51	52	52	55	57
1998	59	60	57	54	43	45	50	50	51	55	55	56
1999	57	57	55	52	52	52	51	52	53	55	58	61
2000	63	63	44	32	32	32	47	51	53	56	60	63
2001	46	32	32	32	32	32	46	51	53	56	60	64
2002	47	32	32	32	32	32	45	51	52	55	59	63
2003	46	32	32	32	32	32	45	52	54	56	60	63

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Change in Average Simulated Madera Canal at Friant Dam Deg. F
Alternative3 (2005) - Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					6	5	0	-2	-3	-4	-5	-6
1981	-4	-2	4	1	3	2	3	0	-3	-7	-7	-2
1982	0	0	0	-8	-4	5	1	-3	-5	-5	-7	-7
1983	-3	-2	-1	2	3	3	-1	-5	3	1	-5	-9
1984	-9	-7	-2	4	5	4	2	-1	-4	-7	-9	-7
1985	-3	0	15	21	19	9	4	0	-2	-6	-9	-1
1986	0	0	0	-8	-5	5	0	-3	-5	-5	-7	-8
1987	-5	-3	12	21	20	9	3	1	-2	-6	-9	-5
1988	-1	0	0	0	0	0	5	0	-3	-7	-9	-5
1989	-1	0	0	0	0	0	5	-1	-4	-7	-6	-3
1990	0	0	0	0	0	0	4	0	-5	-10	-10	-5
1991	-1	0	0	0	0	0	2	-3	-2	-3	-5	-2
1992	-1	0	0	0	0	0	3	0	-3	-9	-7	-3
1993	-1	0	0	-7	-2	6	-1	-2	-1	-2	-3	-3
1994	-1	0	1	0	0	0	6	-1	-3	-6	-8	-2
1995	0	0	-9	-16	-13	-2	-1	-3	-4	1	-3	-8
1996	-8	-5	-1	2	6	5	2	0	-2	-5	-10	-9
1997	-5	-1	0	5	3	1	-1	-3	-5	-9	-10	-9
1998	-5	14	25	14	-5	-3	1	-2	-4	-2	-5	-8
1999	-6	-2	-1	2	5	13	10	0	-2	-4	-6	-4
2000	16	31	12	0	-8	-16	-3	-2	-3	-3	-5	-2
2001	-17	-27	-22	-20	-18	-7	5	-1	-3	-5	-6	-1
2002	0	0	0	0	0	0	4	-1	-2	-6	-7	-3
2003	0	0	0	0	0	0	4	-1	-2	-3	-5	-2

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Percent Change in Average Simulated Madera Canal at Friant Dam Deg. F
From Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					13%	10%	0%	-3%	-6%	-7%	-8%	-9%
1981	-7%	-4%	8%	2%	6%	5%	7%	-1%	-6%	-12%	-11%	-3%
1982	1%	0%	0%	-19%	-8%	11%	2%	-5%	-9%	-9%	-11%	-11%
1983	-4%	-3%	-1%	4%	5%	7%	-2%	-8%	6%	2%	-8%	-14%
1984	-15%	-11%	-3%	9%	12%	9%	5%	-2%	-7%	-11%	-15%	-11%
1985	-5%	1%	37%	65%	61%	27%	9%	-1%	-4%	-10%	-13%	-2%
1986	0%	0%	0%	-21%	-10%	11%	0%	-5%	-10%	-9%	-12%	-12%
1987	-8%	-4%	28%	65%	63%	29%	8%	1%	-3%	-10%	-14%	-7%
1988	-2%	0%	0%	0%	0%	0%	13%	0%	-6%	-12%	-13%	-8%
1989	-2%	0%	0%	0%	0%	0%	13%	-2%	-7%	-12%	-10%	-5%
1990	-1%	0%	0%	0%	0%	0%	10%	0%	-9%	-16%	-14%	-8%
1991	-3%	0%	0%	0%	0%	0%	4%	-5%	-4%	-6%	-8%	-3%
1992	-1%	0%	0%	0%	0%	0%	8%	-1%	-6%	-14%	-11%	-5%
1993	-1%	0%	0%	-18%	-5%	13%	-1%	-3%	-2%	-4%	-4%	-4%
1994	-2%	0%	3%	0%	0%	0%	14%	-1%	-5%	-10%	-12%	-4%
1995	0%	0%	-22%	-33%	-29%	-5%	-2%	-7%	-8%	1%	-5%	-12%
1996	-12%	-8%	-3%	5%	14%	11%	3%	0%	-3%	-9%	-15%	-13%
1997	-8%	-2%	0%	10%	5%	3%	-1%	-5%	-10%	-15%	-16%	-13%
1998	-7%	31%	77%	34%	-10%	-6%	2%	-5%	-7%	-3%	-8%	-12%
1999	-9%	-4%	-1%	4%	11%	34%	26%	0%	-4%	-7%	-10%	-6%
2000	34%	96%	39%	0%	-20%	-33%	-6%	-3%	-5%	-5%	-8%	-3%
2001	-27%	-46%	-41%	-38%	-36%	-18%	11%	-2%	-5%	-9%	-9%	-2%
2002	0%	0%	0%	0%	0%	0%	10%	-1%	-4%	-9%	-11%	-5%
2003	-1%	0%	0%	0%	0%	0%	9%	-2%	-3%	-5%	-7%	-3%

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated Madera Canal at Friant Dam Deg. F
Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					47	47	49	51	54	56	60	63
1981	63	60	51	52	49	39	41	51	56	62	66	65
1982	46	32	32	40	46	45	47	50	53	57	60	63
1983	60	59	55	50	47	46	50	56	50	53	58	62
1984	63	61	56	48	46	47	49	53	56	60	65	65
1985	63	59	41	32	32	32	41	51	54	60	66	63
1986	46	32	32	40	48	47	48	50	54	57	61	64
1987	62	60	43	32	32	32	41	51	54	59	65	64
1988	46	32	32	32	32	32	40	50	54	60	65	65
1989	46	32	32	32	32	32	41	51	55	61	65	64
1990	46	32	32	32	32	32	41	51	55	63	66	65
1991	47	32	32	32	32	32	43	57	56	60	64	64
1992	47	32	32	32	32	32	41	51	54	62	66	66
1993	47	32	32	39	45	46	48	51	53	56	60	63
1994	63	60	42	32	32	32	41	51	54	60	65	64
1995	46	32	41	48	45	45	49	51	54	56	60	63
1996	64	62	58	52	47	47	49	52	56	59	65	66
1997	64	59	56	48	47	47	49	54	57	61	65	66
1998	64	46	32	41	48	47	49	52	55	57	60	64
1999	63	59	55	50	47	39	41	52	55	59	64	65
2000	47	32	32	32	40	48	50	53	56	59	65	65
2001	64	59	54	52	50	39	41	52	56	62	66	65
2002	47	32	32	32	32	32	41	51	54	60	66	66
2003	47	32	32	32	32	32	42	53	55	59	65	65

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated Madera Canal at Friant Dam Deg. F
Alternative4 (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					50	51	49	52	54	56	57	51
1981	50	53	53	51	51	41	43	54	57	57	61	53
1982	41	32	32	32	42	49	49	50	54	55	56	50
1983	50	52	53	51	41	41	49	52	54	54	56	52
1984	51	52	53	52	51	51	50	53	55	57	59	52
1985	51	53	53	51	50	40	44	52	54	58	56	52
1986	42	32	32	32	43	52	48	51	55	56	58	51
1987	50	51	53	51	51	41	43	52	55	58	54	52
1988	41	32	32	32	32	32	45	50	51	54	56	53
1989	42	32	32	32	32	32	46	51	53	55	57	54
1990	42	32	32	32	32	32	45	51	52	54	58	55
1991	42	32	32	32	32	32	44	55	56	58	61	58
1992	44	32	32	32	32	32	44	52	55	54	58	54
1993	42	32	32	32	43	52	49	51	54	58	60	52
1994	51	53	42	32	32	32	46	51	55	57	55	52
1995	41	32	32	32	32	43	48	51	54	57	58	52
1996	52	54	55	54	52	51	50	53	57	58	61	53
1997	52	53	54	51	49	48	48	52	55	58	61	52
1998	50	51	41	32	32	44	50	53	55	59	59	53
1999	52	54	53	51	51	51	51	54	58	59	57	53
2000	53	56	43	32	44	53	51	53	55	58	61	53
2001	54	57	55	53	53	41	45	52	57	60	56	54
2002	42	32	32	32	32	32	45	53	57	59	55	53
2003	42	32	32	32	32	32	45	53	56	60	57	55

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Change in Average Simulated Madera Canal at Friant Dam Deg. F
Alternative4 (2005) - Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					3	4	0	1	0	0	-3	-12
1981	-12	-8	1	-1	2	1	3	2	1	-5	-5	-12
1982	-5	0	0	-8	-4	4	2	0	0	-2	-4	-13
1983	-10	-7	-2	1	-7	-5	-1	-4	3	1	-2	-10
1984	-12	-10	-3	3	5	4	2	1	-1	-3	-6	-13
1985	-12	-5	13	19	18	8	3	0	0	-2	-10	-11
1986	-4	0	0	-8	-5	5	0	1	1	-1	-3	-13
1987	-12	-9	9	19	19	9	3	1	1	-2	-11	-12
1988	-5	0	0	0	0	0	5	0	-2	-7	-9	-12
1989	-4	0	0	0	0	0	5	0	-2	-7	-8	-11
1990	-4	0	0	0	0	0	4	0	-3	-8	-8	-10
1991	-5	0	0	0	0	0	2	-2	0	-2	-4	-6
1992	-3	0	0	0	0	0	3	1	1	-8	-8	-11
1993	-5	0	0	-7	-2	5	1	0	1	1	0	-11
1994	-12	-8	0	0	0	0	5	0	2	-3	-11	-12
1995	-5	0	-9	-16	-13	-2	-1	0	1	2	-1	-11
1996	-13	-9	-3	1	5	4	1	1	1	-1	-4	-13
1997	-12	-6	-2	3	2	1	-1	-2	-2	-3	-4	-14
1998	-14	6	9	-9	-16	-3	1	0	0	2	-1	-11
1999	-11	-6	-2	0	4	12	10	2	3	0	-7	-12
2000	6	24	11	0	4	5	1	0	-1	-1	-4	-11
2001	-10	-2	0	1	3	2	4	0	1	-2	-10	-11
2002	-5	0	0	0	0	0	4	2	2	-1	-11	-13
2003	-5	0	0	0	0	0	3	0	1	1	-8	-10

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Percent Change in Average Simulated Madera Canal at Friant Dam Deg. F
From Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					6%	8%	1%	1%	1%	0%	-4%	-19%
1981	-20%	-13%	3%	-2%	4%	4%	6%	5%	2%	-8%	-7%	-18%
1982	-11%	0%	0%	-19%	-9%	9%	4%	0%	0%	-3%	-7%	-20%
1983	-17%	-12%	-4%	3%	-14%	-11%	-2%	-7%	7%	3%	-4%	-16%
1984	-19%	-16%	-6%	7%	11%	8%	3%	1%	-1%	-5%	-9%	-20%
1985	-18%	-9%	31%	58%	56%	26%	8%	1%	0%	-3%	-15%	-17%
1986	-9%	0%	0%	-21%	-11%	10%	0%	1%	2%	-2%	-5%	-20%
1987	-20%	-15%	21%	58%	58%	27%	7%	2%	2%	-3%	-16%	-19%
1988	-11%	0%	0%	0%	0%	0%	12%	1%	-4%	-11%	-14%	-18%
1989	-9%	0%	0%	0%	0%	0%	12%	0%	-3%	-11%	-12%	-17%
1990	-8%	0%	0%	0%	0%	0%	10%	1%	-6%	-13%	-12%	-15%
1991	-10%	0%	0%	0%	0%	0%	4%	-3%	-1%	-3%	-6%	-10%
1992	-5%	0%	0%	0%	0%	0%	8%	2%	2%	-13%	-13%	-17%
1993	-11%	0%	0%	-18%	-5%	12%	1%	0%	2%	2%	0%	-18%
1994	-19%	-13%	-1%	0%	0%	0%	13%	1%	3%	-4%	-17%	-18%
1995	-10%	0%	-22%	-33%	-29%	-5%	-2%	-1%	1%	3%	-2%	-18%
1996	-19%	-14%	-6%	2%	11%	9%	2%	2%	1%	-2%	-6%	-19%
1997	-19%	-10%	-4%	6%	4%	3%	-2%	-3%	-4%	-6%	-6%	-21%
1998	-21%	12%	28%	-21%	-33%	-7%	2%	1%	0%	4%	-2%	-18%
1999	-17%	-9%	-4%	1%	9%	32%	25%	4%	5%	0%	-11%	-19%
2000	13%	76%	33%	0%	10%	11%	2%	1%	-1%	-2%	-6%	-18%
2001	-16%	-4%	1%	3%	6%	5%	10%	0%	2%	-3%	-15%	-17%
2002	-10%	0%	0%	0%	0%	0%	9%	3%	4%	-2%	-16%	-19%
2003	-11%	0%	0%	0%	0%	0%	8%	-1%	2%	2%	-12%	-16%

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated Madera Canal at Friant Dam Deg. F
Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					47	47	49	51	54	56	60	63
1981	63	60	51	52	49	39	41	51	56	62	66	65
1982	46	32	32	40	46	45	47	50	53	57	60	63
1983	60	59	55	50	47	46	50	56	50	53	58	62
1984	63	61	56	48	46	47	49	53	56	60	65	65
1985	63	59	41	32	32	32	41	51	54	60	66	63
1986	46	32	32	40	48	47	48	50	54	57	61	64
1987	62	60	43	32	32	32	41	51	54	59	65	64
1988	46	32	32	32	32	32	40	50	54	60	65	65
1989	46	32	32	32	32	32	41	51	55	61	65	64
1990	46	32	32	32	32	32	41	51	55	63	66	65
1991	47	32	32	32	32	32	43	57	56	60	64	64
1992	47	32	32	32	32	32	41	51	54	62	66	66
1993	47	32	32	39	45	46	48	51	53	56	60	63
1994	63	60	42	32	32	32	41	51	54	60	65	64
1995	46	32	41	48	45	45	49	51	54	56	60	63
1996	64	62	58	52	47	47	49	52	56	59	65	66
1997	64	59	56	48	47	47	49	54	57	61	65	66
1998	64	46	32	41	48	47	49	52	55	57	60	64
1999	63	59	55	50	47	39	41	52	55	59	64	65
2000	47	32	32	32	40	48	50	53	56	59	65	65
2001	64	59	54	52	50	39	41	52	56	62	66	65
2002	47	32	32	32	32	32	41	51	54	60	66	66
2003	47	32	32	32	32	32	42	53	55	59	65	65

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated Madera Canal at Friant Dam Deg. F
Alternative5 (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					43	52	49	49	50	52	55	57
1981	59	58	55	53	52	52	51	52	54	59	65	66
1982	64	60	42	32	41	48	48	48	50	53	55	57
1983	59	58	55	52	41	41	49	51	53	54	53	53
1984	53	55	55	52	52	51	51	52	52	53	55	58
1985	60	59	56	53	51	51	51	52	53	56	64	64
1986	63	46	32	32	43	52	47	48	49	52	56	58
1987	60	60	44	32	32	32	44	51	53	57	63	65
1988	46	32	32	32	32	32	44	53	57	64	69	69
1989	47	32	32	32	32	32	42	53	57	64	69	68
1990	47	32	32	32	32	32	43	54	60	67	71	69
1991	48	32	32	32	32	32	45	60	60	64	69	69
1992	48	32	32	32	32	32	42	53	57	66	71	68
1993	48	32	32	32	41	48	49	52	53	56	59	61
1994	63	61	41	32	32	32	47	51	53	57	64	64
1995	46	32	32	32	32	42	47	49	51	53	56	56
1996	57	58	57	55	54	52	51	52	54	54	55	57
1997	59	58	56	53	49	48	49	52	52	52	55	57
1998	59	60	56	54	43	45	50	50	51	56	56	56
1999	57	57	55	52	52	52	51	52	53	54	57	59
2000	61	62	44	32	45	54	51	52	54	56	59	62
2001	46	32	32	32	32	32	46	52	55	59	65	66
2002	47	32	32	32	32	32	45	53	56	61	66	67
2003	47	32	32	32	32	32	46	56	56	60	65	66

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Change in Average Simulated Madera Canal at Friant Dam Deg. F
Alternative5 (2005) - Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					-4	4	0	-2	-4	-4	-5	-6
1981	-4	-2	4	1	3	13	11	0	-2	-3	-1	1
1982	18	28	10	-8	-5	2	1	-2	-4	-4	-6	-6
1983	-1	-1	0	2	-6	-5	-1	-5	3	1	-5	-9
1984	-9	-7	-2	4	5	4	2	-1	-4	-7	-10	-7
1985	-3	0	15	21	19	19	10	0	-1	-4	-2	0
1986	17	14	0	-8	-5	4	-1	-3	-5	-5	-5	-5
1987	-2	0	0	0	0	0	3	1	-1	-2	-2	0
1988	0	0	0	0	0	0	4	3	3	4	3	4
1989	1	0	0	0	0	0	1	2	2	3	4	4
1990	1	0	0	0	0	0	2	3	5	4	5	4
1991	1	0	0	0	0	0	3	3	4	5	5	5
1992	2	0	0	0	0	0	1	2	3	3	5	3
1993	1	0	0	-7	-5	2	1	0	0	-1	-1	-2
1994	0	1	-1	0	0	0	6	0	-1	-2	-1	0
1995	0	0	-9	-16	-13	-3	-1	-3	-3	-3	-4	-7
1996	-7	-4	-1	3	7	5	2	0	-1	-5	-10	-9
1997	-5	-1	0	5	2	1	0	-2	-5	-9	-11	-9
1998	-5	14	24	14	-5	-3	1	-2	-4	-1	-4	-8
1999	-6	-2	-1	2	5	13	11	0	-2	-5	-8	-6
2000	14	30	12	0	5	6	1	-1	-3	-3	-6	-3
2001	-18	-27	-22	-20	-18	-7	5	0	-1	-2	-1	1
2002	0	0	0	0	0	0	4	1	1	0	0	1
2003	0	0	0	0	0	0	4	3	1	0	0	1

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Percent Change in Average Simulated Madera Canal at Friant Dam Deg. F
From Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					-8%	9%	-1%	-4%	-7%	-8%	-8%	-9%
1981	-7%	-3%	8%	2%	6%	33%	26%	1%	-3%	-5%	-2%	1%
1982	38%	86%	31%	-19%	-10%	6%	1%	-4%	-7%	-8%	-9%	-9%
1983	-2%	-1%	-1%	4%	-13%	-11%	-2%	-9%	6%	2%	-8%	-15%
1984	-15%	-11%	-3%	9%	12%	9%	5%	-2%	-7%	-11%	-15%	-11%
1985	-5%	1%	37%	65%	61%	60%	26%	0%	-2%	-6%	-4%	0%
1986	36%	43%	0%	-21%	-11%	9%	-2%	-5%	-9%	-8%	-9%	-8%
1987	-3%	-1%	0%	0%	0%	0%	8%	1%	-1%	-4%	-2%	1%
1988	0%	0%	0%	0%	0%	0%	10%	6%	6%	6%	5%	7%
1989	2%	0%	0%	0%	0%	0%	3%	3%	5%	4%	6%	6%
1990	1%	0%	0%	0%	0%	0%	4%	7%	9%	7%	8%	7%
1991	2%	0%	0%	0%	0%	0%	7%	6%	7%	8%	8%	8%
1992	4%	0%	0%	0%	0%	0%	4%	4%	6%	5%	8%	4%
1993	1%	0%	0%	-18%	-11%	4%	1%	1%	0%	-1%	-2%	-3%
1994	-1%	1%	-3%	0%	0%	0%	14%	-1%	-2%	-4%	-1%	0%
1995	0%	0%	-22%	-33%	-29%	-7%	-3%	-5%	-5%	-5%	-6%	-11%
1996	-11%	-7%	-2%	5%	14%	11%	4%	0%	-3%	-9%	-15%	-13%
1997	-8%	-2%	0%	10%	4%	3%	-1%	-4%	-9%	-15%	-16%	-14%
1998	-8%	31%	76%	33%	-10%	-6%	2%	-4%	-7%	-2%	-7%	-12%
1999	-9%	-4%	-1%	4%	11%	34%	26%	1%	-4%	-9%	-12%	-10%
2000	29%	92%	38%	0%	11%	12%	1%	-2%	-5%	-6%	-9%	-4%
2001	-28%	-46%	-41%	-38%	-36%	-18%	11%	0%	-2%	-4%	-2%	1%
2002	0%	0%	0%	0%	0%	0%	10%	3%	3%	1%	0%	1%
2003	1%	0%	0%	0%	0%	0%	10%	5%	1%	1%	1%	1%

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated Madera Canal at Friant Dam Deg. F
No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					47	47	49	51	54	56	59	63
1981	63	60	43	32	32	32	41	51	55	62	66	65
1982	46	32	32	40	46	45	47	50	54	57	60	63
1983	60	59	55	50	47	46	51	56	50	53	58	62
1984	63	61	56	48	46	47	50	54	56	61	64	65
1985	63	45	32	32	32	32	41	51	54	61	66	63
1986	46	32	32	40	48	47	48	50	54	57	61	64
1987	62	60	43	32	32	32	41	51	54	60	65	64
1988	46	32	32	32	32	32	40	51	54	61	65	65
1989	46	32	32	32	32	32	41	51	55	61	65	64
1990	46	32	32	32	32	32	41	51	56	63	66	65
1991	47	32	32	32	32	32	43	57	56	60	64	64
1992	47	32	32	32	32	32	41	51	55	63	66	66
1993	47	32	32	39	45	46	49	52	53	56	61	63
1994	63	60	42	32	32	32	41	51	54	60	65	64
1995	46	32	39	48	45	46	49	52	53	56	60	63
1996	64	62	58	53	47	47	49	53	56	59	65	66
1997	64	59	56	48	47	47	49	54	58	62	66	65
1998	46	32	32	41	47	47	49	53	55	57	60	64
1999	63	59	55	50	47	39	41	52	55	59	64	65
2000	47	32	32	32	40	48	51	53	56	59	65	65
2001	64	59	54	52	50	39	41	53	56	62	66	65
2002	47	32	32	32	32	32	41	52	55	61	66	66
2003	47	32	32	32	32	32	42	53	55	59	65	65

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated Madera Canal at Friant Dam Deg. F
Alternative1 (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					53	52	49	49	50	52	55	57
1981	58	58	55	53	52	41	43	51	52	54	58	63
1982	47	32	32	32	42	50	48	48	49	51	54	56
1983	58	58	55	52	50	50	49	51	53	54	53	53
1984	54	55	55	52	52	51	51	52	52	53	55	57
1985	60	59	56	53	51	41	44	51	52	54	57	62
1986	46	32	32	32	43	53	48	48	49	52	54	56
1987	58	58	56	53	52	41	44	51	52	53	56	60
1988	46	32	32	32	32	32	46	50	51	53	57	60
1989	45	32	32	32	32	32	46	50	51	54	58	61
1990	46	32	32	32	32	32	45	51	51	53	56	60
1991	45	32	32	32	32	32	44	54	54	56	59	62
1992	46	32	32	32	32	32	44	50	51	54	59	63
1993	46	32	32	32	43	52	48	49	51	54	57	60
1994	61	61	44	32	32	32	47	50	51	54	57	61
1995	46	32	32	32	32	43	48	48	49	56	56	55
1996	56	57	57	55	54	52	51	52	54	54	55	57
1997	59	58	56	53	50	48	48	51	52	52	54	57
1998	59	60	57	54	43	45	50	50	51	55	56	56
1999	57	57	55	52	52	52	51	52	53	55	57	61
2000	62	63	44	32	32	32	47	51	53	56	59	62
2001	46	32	32	32	32	32	45	51	53	56	60	63
2002	47	32	32	32	32	32	45	51	52	55	59	62
2003	46	32	32	32	32	32	45	52	53	56	59	63

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Change in Average Simulated Madera Canal at Friant Dam Deg. F
Alternative1 (2030) - No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					6	5	0	-2	-3	-4	-5	-6
1981	-5	-2	12	21	20	9	3	0	-3	-8	-8	-2
1982	0	0	0	-8	-4	5	1	-3	-5	-6	-6	-6
1983	-2	-1	-1	2	3	3	-1	-5	3	1	-5	-9
1984	-9	-7	-2	4	5	4	2	-2	-4	-8	-10	-7
1985	-3	14	24	21	19	9	3	0	-2	-7	-9	-2
1986	0	0	0	-8	-5	6	0	-2	-5	-5	-7	-8
1987	-4	-2	12	21	20	9	3	1	-2	-7	-9	-4
1988	-1	0	0	0	0	0	5	-1	-4	-8	-9	-5
1989	-1	0	0	0	0	0	5	-1	-4	-8	-6	-3
1990	0	0	0	0	0	0	4	0	-5	-10	-9	-5
1991	-1	0	0	0	0	0	1	-3	-2	-3	-5	-2
1992	-1	0	0	0	0	0	3	-1	-4	-9	-7	-3
1993	-1	0	0	-7	-2	6	-1	-2	-1	-2	-3	-4
1994	-2	0	1	0	0	0	6	-1	-3	-6	-8	-3
1995	0	0	-7	-16	-13	-3	-2	-4	-4	1	-3	-8
1996	-8	-5	-1	2	7	5	1	0	-2	-6	-10	-9
1997	-6	-1	0	5	3	1	-1	-3	-6	-10	-12	-9
1998	12	28	25	14	-4	-2	1	-2	-4	-2	-5	-8
1999	-6	-2	-1	2	5	13	10	-1	-3	-5	-7	-4
2000	16	31	12	0	-8	-16	-4	-2	-3	-4	-6	-3
2001	-18	-27	-22	-20	-18	-7	4	-1	-3	-6	-6	-1
2002	0	0	0	0	0	0	4	-1	-3	-6	-7	-4
2003	0	0	0	0	0	0	3	-2	-2	-3	-5	-2

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Percent Change in Average Simulated Madera Canal at Friant Dam Deg. F
From No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					13%	10%	0%	-4%	-6%	-7%	-8%	-10%
1981	-8%	-4%	27%	66%	64%	29%	7%	0%	-6%	-12%	-12%	-4%
1982	1%	0%	0%	-19%	-8%	11%	2%	-5%	-9%	-10%	-11%	-10%
1983	-4%	-2%	-1%	4%	5%	7%	-3%	-8%	6%	2%	-8%	-15%
1984	-15%	-11%	-3%	9%	12%	9%	3%	-4%	-8%	-13%	-15%	-12%
1985	-5%	31%	74%	65%	61%	27%	8%	-1%	-4%	-12%	-14%	-3%
1986	0%	0%	0%	-21%	-10%	12%	0%	-5%	-10%	-9%	-12%	-12%
1987	-7%	-4%	28%	65%	64%	29%	8%	1%	-3%	-11%	-14%	-6%
1988	-2%	0%	0%	0%	0%	0%	12%	-2%	-7%	-13%	-13%	-8%
1989	-2%	0%	0%	0%	0%	0%	13%	-2%	-7%	-12%	-10%	-5%
1990	-1%	0%	0%	0%	0%	0%	10%	-1%	-9%	-16%	-14%	-8%
1991	-3%	0%	0%	0%	0%	0%	3%	-6%	-4%	-6%	-8%	-3%
1992	-1%	0%	0%	0%	0%	0%	8%	-1%	-7%	-14%	-11%	-4%
1993	-1%	0%	0%	-17%	-5%	13%	-2%	-4%	-3%	-4%	-6%	-6%
1994	-3%	1%	3%	0%	0%	0%	14%	-1%	-5%	-10%	-12%	-5%
1995	-1%	0%	-18%	-33%	-29%	-6%	-3%	-8%	-7%	1%	-5%	-12%
1996	-12%	-8%	-2%	4%	14%	12%	3%	-1%	-3%	-10%	-15%	-14%
1997	-9%	-2%	0%	10%	5%	3%	-2%	-5%	-10%	-16%	-18%	-14%
1998	27%	86%	77%	34%	-8%	-5%	2%	-5%	-7%	-3%	-8%	-13%
1999	-9%	-4%	-1%	4%	11%	34%	25%	-1%	-5%	-8%	-11%	-7%
2000	33%	96%	39%	0%	-20%	-33%	-8%	-3%	-5%	-6%	-9%	-5%
2001	-28%	-46%	-41%	-38%	-36%	-18%	10%	-3%	-5%	-9%	-10%	-2%
2002	0%	0%	0%	0%	0%	0%	9%	-1%	-5%	-10%	-11%	-5%
2003	-1%	0%	0%	0%	0%	0%	8%	-4%	-3%	-5%	-8%	-4%

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated Madera Canal at Friant Dam Deg. F
No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					47	47	49	51	54	56	59	63
1981	63	60	43	32	32	32	41	51	55	62	66	65
1982	46	32	32	40	46	45	47	50	54	57	60	63
1983	60	59	55	50	47	46	51	56	50	53	58	62
1984	63	61	56	48	46	47	50	54	56	61	64	65
1985	63	45	32	32	32	32	41	51	54	61	66	63
1986	46	32	32	40	48	47	48	50	54	57	61	64
1987	62	60	43	32	32	32	41	51	54	60	65	64
1988	46	32	32	32	32	32	40	51	54	61	65	65
1989	46	32	32	32	32	32	41	51	55	61	65	64
1990	46	32	32	32	32	32	41	51	56	63	66	65
1991	47	32	32	32	32	32	43	57	56	60	64	64
1992	47	32	32	32	32	32	41	51	55	63	66	66
1993	47	32	32	39	45	46	49	52	53	56	61	63
1994	63	60	42	32	32	32	41	51	54	60	65	64
1995	46	32	39	48	45	46	49	52	53	56	60	63
1996	64	62	58	53	47	47	49	53	56	59	65	66
1997	64	59	56	48	47	47	49	54	58	62	66	65
1998	46	32	32	41	47	47	49	53	55	57	60	64
1999	63	59	55	50	47	39	41	52	55	59	64	65
2000	47	32	32	32	40	48	51	53	56	59	65	65
2001	64	59	54	52	50	39	41	53	56	62	66	65
2002	47	32	32	32	32	32	41	52	55	61	66	66
2003	47	32	32	32	32	32	42	53	55	59	65	65

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated Madera Canal at Friant Dam Deg. F
Alternative2 (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					53	52	49	49	50	52	55	56
1981	58	58	55	53	52	41	43	51	52	54	58	62
1982	47	32	32	32	42	50	48	48	49	52	54	56
1983	58	58	55	52	50	50	49	51	53	54	53	53
1984	54	55	55	52	52	51	51	52	52	53	55	57
1985	59	59	56	53	51	41	44	51	52	53	56	61
1986	46	32	32	32	43	53	48	48	49	52	54	56
1987	57	58	56	53	52	41	44	51	52	53	56	59
1988	45	32	32	32	32	32	46	50	51	53	57	60
1989	45	32	32	32	32	32	46	50	51	54	58	61
1990	46	32	32	32	32	32	45	51	51	53	56	60
1991	45	32	32	32	32	32	44	54	54	56	59	62
1992	46	32	32	32	32	32	44	50	51	54	59	63
1993	46	32	32	32	43	52	48	49	51	54	57	60
1994	61	61	44	32	32	32	47	50	51	54	57	61
1995	46	32	32	32	32	43	48	48	49	56	56	55
1996	56	57	57	55	54	52	51	52	54	54	55	57
1997	58	58	56	53	50	48	48	51	52	52	55	57
1998	59	59	57	54	43	45	50	50	51	55	56	56
1999	57	57	55	52	52	52	51	52	53	55	57	60
2000	62	63	44	32	32	32	47	51	53	55	59	61
2001	46	32	32	32	32	32	45	51	53	56	60	63
2002	47	32	32	32	32	32	45	51	52	55	59	62
2003	46	32	32	32	32	32	45	51	53	56	59	63

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Change in Average Simulated Madera Canal at Friant Dam Deg. F
Alternative2 (2030) - No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					6	5	0	-2	-3	-4	-5	-6
1981	-5	-2	12	21	20	9	3	0	-3	-8	-8	-3
1982	0	0	0	-8	-4	5	1	-3	-5	-5	-6	-6
1983	-2	-1	-1	2	3	3	-1	-5	3	1	-5	-9
1984	-9	-7	-2	4	5	4	2	-2	-4	-8	-10	-8
1985	-3	14	24	21	19	9	3	0	-3	-7	-10	-3
1986	0	0	0	-8	-5	6	0	-2	-5	-5	-7	-8
1987	-4	-2	12	21	20	9	3	1	-2	-7	-9	-4
1988	-1	0	0	0	0	0	5	-1	-4	-8	-9	-5
1989	-1	0	0	0	0	0	5	-1	-4	-8	-7	-3
1990	0	0	0	0	0	0	4	0	-5	-10	-9	-5
1991	-1	0	0	0	0	0	1	-3	-2	-3	-5	-2
1992	-1	0	0	0	0	0	3	-1	-4	-9	-7	-3
1993	-1	0	0	-7	-2	6	-1	-2	-1	-2	-3	-4
1994	-2	0	1	0	0	0	6	-1	-3	-6	-8	-3
1995	0	0	-7	-16	-13	-3	-2	-4	-4	1	-3	-8
1996	-8	-5	-1	2	7	5	1	0	-2	-6	-10	-9
1997	-6	-1	0	5	3	2	-1	-3	-6	-10	-11	-9
1998	12	27	25	14	-4	-2	1	-2	-4	-2	-5	-8
1999	-6	-2	-1	2	5	13	10	-1	-3	-5	-7	-5
2000	15	31	12	0	-8	-16	-4	-2	-3	-4	-6	-3
2001	-18	-27	-22	-20	-18	-7	4	-1	-3	-6	-7	-2
2002	0	0	0	0	0	0	4	-1	-3	-6	-7	-4
2003	0	0	0	0	0	0	3	-2	-2	-3	-6	-3

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Percent Change in Average Simulated Madera Canal at Friant Dam Deg. F
From No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					13%	10%	0%	-4%	-6%	-7%	-8%	-10%
1981	-8%	-4%	27%	66%	63%	29%	7%	0%	-6%	-12%	-12%	-5%
1982	1%	0%	0%	-19%	-8%	11%	2%	-5%	-9%	-9%	-10%	-10%
1983	-4%	-2%	-1%	4%	5%	7%	-3%	-8%	6%	2%	-8%	-15%
1984	-15%	-11%	-3%	9%	12%	9%	3%	-4%	-7%	-13%	-15%	-12%
1985	-5%	31%	74%	65%	61%	27%	8%	-1%	-5%	-12%	-15%	-4%
1986	0%	0%	0%	-21%	-10%	12%	0%	-4%	-10%	-9%	-11%	-12%
1987	-7%	-4%	28%	65%	64%	29%	8%	1%	-3%	-11%	-14%	-7%
1988	-2%	0%	0%	0%	0%	0%	12%	-2%	-7%	-14%	-13%	-8%
1989	-2%	0%	0%	0%	0%	0%	13%	-1%	-7%	-13%	-10%	-5%
1990	-1%	0%	0%	0%	0%	0%	10%	-1%	-9%	-16%	-14%	-8%
1991	-3%	0%	0%	0%	0%	0%	3%	-6%	-4%	-6%	-8%	-4%
1992	-1%	0%	0%	0%	0%	0%	8%	-1%	-7%	-15%	-11%	-5%
1993	-1%	0%	0%	-17%	-5%	13%	-2%	-4%	-3%	-4%	-6%	-6%
1994	-3%	1%	3%	0%	0%	0%	14%	-1%	-5%	-10%	-12%	-5%
1995	-1%	0%	-18%	-33%	-29%	-6%	-3%	-8%	-7%	1%	-5%	-12%
1996	-12%	-8%	-2%	4%	14%	12%	3%	-1%	-3%	-10%	-15%	-14%
1997	-9%	-2%	0%	10%	5%	3%	-2%	-5%	-10%	-16%	-17%	-14%
1998	26%	86%	77%	34%	-8%	-5%	2%	-5%	-7%	-3%	-8%	-13%
1999	-9%	-4%	-1%	4%	11%	34%	25%	-1%	-5%	-8%	-11%	-7%
2000	33%	96%	39%	0%	-20%	-33%	-8%	-3%	-5%	-6%	-10%	-5%
2001	-28%	-46%	-41%	-38%	-36%	-18%	10%	-3%	-5%	-10%	-10%	-2%
2002	0%	0%	0%	0%	0%	0%	9%	-1%	-5%	-10%	-11%	-5%
2003	-1%	0%	0%	0%	0%	0%	8%	-4%	-3%	-5%	-8%	-4%

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated Madera Canal at Friant Dam Deg. F
No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					47	47	49	51	54	56	59	63
1981	63	60	43	32	32	32	41	51	55	62	66	65
1982	46	32	32	40	46	45	47	50	54	57	60	63
1983	60	59	55	50	47	46	51	56	50	53	58	62
1984	63	61	56	48	46	47	50	54	56	61	64	65
1985	63	45	32	32	32	32	41	51	54	61	66	63
1986	46	32	32	40	48	47	48	50	54	57	61	64
1987	62	60	43	32	32	32	41	51	54	60	65	64
1988	46	32	32	32	32	32	40	51	54	61	65	65
1989	46	32	32	32	32	32	41	51	55	61	65	64
1990	46	32	32	32	32	32	41	51	56	63	66	65
1991	47	32	32	32	32	32	43	57	56	60	64	64
1992	47	32	32	32	32	32	41	51	55	63	66	66
1993	47	32	32	39	45	46	49	52	53	56	61	63
1994	63	60	42	32	32	32	41	51	54	60	65	64
1995	46	32	39	48	45	46	49	52	53	56	60	63
1996	64	62	58	53	47	47	49	53	56	59	65	66
1997	64	59	56	48	47	47	49	54	58	62	66	65
1998	46	32	32	41	47	47	49	53	55	57	60	64
1999	63	59	55	50	47	39	41	52	55	59	64	65
2000	47	32	32	32	40	48	51	53	56	59	65	65
2001	64	59	54	52	50	39	41	53	56	62	66	65
2002	47	32	32	32	32	32	41	52	55	61	66	66
2003	47	32	32	32	32	32	42	53	55	59	65	65

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated Madera Canal at Friant Dam Deg. F
Alternative3 (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					53	52	49	49	51	52	55	57
1981	58	58	55	53	52	41	43	51	52	54	59	63
1982	47	32	32	32	42	50	48	48	49	52	54	56
1983	58	57	55	52	50	50	49	51	53	54	53	53
1984	54	55	55	52	52	51	51	51	52	53	55	58
1985	60	59	56	53	51	41	44	51	52	54	57	62
1986	46	32	32	32	43	53	48	48	49	52	54	56
1987	57	58	55	53	52	41	44	51	52	53	56	60
1988	46	32	32	32	32	32	46	50	51	53	56	60
1989	45	32	32	32	32	32	46	50	51	54	58	61
1990	46	32	32	32	32	32	45	51	51	53	56	60
1991	45	32	32	32	32	32	44	54	54	56	59	62
1992	46	32	32	32	32	32	44	50	51	54	59	63
1993	46	32	32	32	43	52	48	49	51	54	58	60
1994	62	61	44	32	32	32	47	50	51	54	57	62
1995	46	32	32	32	32	43	48	48	49	56	56	55
1996	56	57	57	55	54	52	51	52	54	54	55	57
1997	59	58	56	53	50	48	48	51	52	52	55	57
1998	59	60	57	54	43	45	50	50	51	55	55	56
1999	57	57	55	52	52	52	51	52	53	55	58	61
2000	63	63	44	32	32	32	47	51	53	56	60	63
2001	46	32	32	32	32	32	46	51	53	56	60	64
2002	47	32	32	32	32	32	45	51	52	55	59	63
2003	46	32	32	32	32	32	45	52	54	56	60	63

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Change in Average Simulated Madera Canal at Friant Dam Deg. F
Alternative3 (2030) - No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					6	5	0	-2	-3	-4	-4	-6
1981	-4	-2	12	21	20	9	3	0	-3	-7	-7	-2
1982	0	0	0	-8	-4	5	1	-3	-5	-5	-7	-7
1983	-3	-2	-1	2	3	3	-1	-5	3	1	-5	-9
1984	-9	-7	-2	4	5	4	2	-2	-4	-7	-9	-7
1985	-3	14	24	21	19	9	4	0	-2	-7	-9	-1
1986	0	0	0	-8	-5	6	0	-2	-5	-5	-7	-8
1987	-5	-2	12	21	20	9	3	1	-2	-7	-9	-4
1988	-1	0	0	0	0	0	5	-1	-4	-8	-9	-5
1989	-1	0	0	0	0	0	5	-1	-4	-8	-6	-3
1990	0	0	0	0	0	0	4	0	-5	-10	-9	-5
1991	-1	0	0	0	0	0	2	-3	-2	-3	-5	-2
1992	-1	0	0	0	0	0	3	-1	-4	-9	-7	-3
1993	-1	0	0	-7	-2	6	-1	-2	-1	-2	-3	-3
1994	-1	0	1	0	0	0	6	-1	-3	-6	-8	-2
1995	0	0	-7	-16	-13	-3	-2	-4	-4	1	-3	-8
1996	-8	-5	-1	2	7	5	1	0	-1	-6	-10	-9
1997	-5	-1	0	5	3	1	-1	-3	-6	-10	-11	-9
1998	13	28	25	14	-4	-2	1	-2	-4	-2	-5	-8
1999	-6	-2	-1	2	5	13	10	-1	-3	-5	-6	-4
2000	16	31	12	0	-8	-16	-4	-2	-3	-3	-5	-2
2001	-17	-27	-22	-20	-18	-7	4	-1	-3	-6	-6	-1
2002	0	0	0	0	0	0	4	-1	-3	-6	-7	-3
2003	0	0	0	0	0	0	3	-2	-2	-3	-5	-2

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Percent Change in Average Simulated Madera Canal at Friant Dam Deg. F
From No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					13%	10%	0%	-4%	-6%	-7%	-8%	-9%
1981	-7%	-4%	27%	65%	63%	29%	7%	0%	-6%	-12%	-11%	-3%
1982	1%	0%	0%	-19%	-8%	11%	2%	-5%	-9%	-9%	-11%	-11%
1983	-4%	-3%	-1%	4%	5%	7%	-3%	-8%	6%	2%	-8%	-15%
1984	-15%	-11%	-3%	9%	12%	9%	3%	-4%	-8%	-12%	-14%	-11%
1985	-5%	32%	74%	65%	61%	27%	9%	-1%	-4%	-11%	-13%	-2%
1986	0%	0%	0%	-21%	-10%	12%	0%	-5%	-10%	-9%	-12%	-12%
1987	-8%	-4%	28%	65%	63%	29%	8%	1%	-3%	-11%	-14%	-7%
1988	-2%	0%	0%	0%	0%	0%	12%	-2%	-7%	-14%	-13%	-8%
1989	-2%	0%	0%	0%	0%	0%	13%	-2%	-7%	-12%	-10%	-5%
1990	-1%	0%	0%	0%	0%	0%	10%	-1%	-9%	-16%	-14%	-8%
1991	-3%	0%	0%	0%	0%	0%	4%	-6%	-4%	-6%	-8%	-3%
1992	-1%	0%	0%	0%	0%	0%	8%	-1%	-7%	-14%	-11%	-4%
1993	-1%	0%	0%	-17%	-5%	13%	-2%	-4%	-3%	-3%	-5%	-5%
1994	-2%	1%	3%	0%	0%	0%	14%	-1%	-5%	-10%	-12%	-4%
1995	0%	0%	-18%	-33%	-29%	-6%	-3%	-8%	-7%	1%	-5%	-12%
1996	-12%	-8%	-3%	4%	14%	12%	3%	-1%	-2%	-10%	-15%	-13%
1997	-8%	-1%	0%	10%	6%	3%	-2%	-5%	-10%	-16%	-17%	-13%
1998	27%	87%	77%	34%	-8%	-5%	2%	-5%	-7%	-3%	-8%	-12%
1999	-9%	-4%	-1%	3%	11%	34%	25%	-1%	-5%	-8%	-10%	-6%
2000	34%	96%	39%	0%	-20%	-33%	-7%	-3%	-5%	-5%	-8%	-3%
2001	-27%	-46%	-41%	-38%	-36%	-18%	11%	-3%	-5%	-9%	-9%	-2%
2002	0%	0%	0%	0%	0%	0%	10%	-2%	-5%	-10%	-11%	-5%
2003	-1%	0%	0%	0%	0%	0%	8%	-3%	-3%	-5%	-7%	-3%

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated Madera Canal at Friant Dam Deg. F
No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					47	47	49	51	54	56	59	63
1981	63	60	43	32	32	32	41	51	55	62	66	65
1982	46	32	32	40	46	45	47	50	54	57	60	63
1983	60	59	55	50	47	46	51	56	50	53	58	62
1984	63	61	56	48	46	47	50	54	56	61	64	65
1985	63	45	32	32	32	32	41	51	54	61	66	63
1986	46	32	32	40	48	47	48	50	54	57	61	64
1987	62	60	43	32	32	32	41	51	54	60	65	64
1988	46	32	32	32	32	32	40	51	54	61	65	65
1989	46	32	32	32	32	32	41	51	55	61	65	64
1990	46	32	32	32	32	32	41	51	56	63	66	65
1991	47	32	32	32	32	32	43	57	56	60	64	64
1992	47	32	32	32	32	32	41	51	55	63	66	66
1993	47	32	32	39	45	46	49	52	53	56	61	63
1994	63	60	42	32	32	32	41	51	54	60	65	64
1995	46	32	39	48	45	46	49	52	53	56	60	63
1996	64	62	58	53	47	47	49	53	56	59	65	66
1997	64	59	56	48	47	47	49	54	58	62	66	65
1998	46	32	32	41	47	47	49	53	55	57	60	64
1999	63	59	55	50	47	39	41	52	55	59	64	65
2000	47	32	32	32	40	48	51	53	56	59	65	65
2001	64	59	54	52	50	39	41	53	56	62	66	65
2002	47	32	32	32	32	32	41	52	55	61	66	66
2003	47	32	32	32	32	32	42	53	55	59	65	65

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated Madera Canal at Friant Dam Deg. F
Alternative4 (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					51	51	49	52	54	56	57	51
1981	51	53	53	51	51	41	43	52	55	59	60	52
1982	41	32	32	32	42	50	48	50	53	55	57	50
1983	50	52	53	51	50	49	49	52	54	54	56	52
1984	51	52	53	52	51	51	51	54	55	58	60	52
1985	51	53	53	51	50	40	44	52	55	58	55	53
1986	42	32	32	32	43	52	48	51	54	56	58	51
1987	50	51	53	51	51	41	43	52	55	58	54	52
1988	41	32	32	32	32	32	45	50	52	54	57	53
1989	42	32	32	32	32	32	46	51	52	55	58	54
1990	42	32	32	32	32	32	45	51	52	55	58	55
1991	42	32	32	32	32	32	44	55	56	58	60	58
1992	44	32	32	32	32	32	44	52	54	55	59	55
1993	42	32	32	32	43	52	48	52	54	56	58	52
1994	54	57	43	32	32	32	46	52	56	56	55	53
1995	41	32	32	32	32	43	48	51	54	57	58	52
1996	51	54	55	54	53	51	51	54	56	58	61	54
1997	52	54	54	52	49	48	48	53	55	58	62	52
1998	50	51	41	32	32	44	49	54	54	59	59	53
1999	52	54	53	51	51	51	51	54	58	58	58	53
2000	53	57	43	32	32	32	46	53	56	59	62	54
2001	41	32	32	32	32	32	45	52	57	58	57	54
2002	42	32	32	32	32	32	45	53	58	58	56	54
2003	42	32	32	32	32	32	45	53	56	59	58	55

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Change in Average Simulated Madera Canal at Friant Dam Deg. F
Alternative4 (2030) - No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					4	4	0	1	0	0	-2	-11
1981	-12	-7	10	19	19	9	2	1	-1	-3	-6	-13
1982	-5	0	0	-8	-4	4	1	0	0	-2	-4	-13
1983	-10	-7	-3	1	2	3	-2	-4	3	1	-2	-10
1984	-12	-10	-3	3	5	4	1	0	-1	-2	-5	-13
1985	-11	8	21	19	18	8	3	1	0	-2	-11	-10
1986	-4	0	0	-8	-5	5	0	1	1	-1	-3	-13
1987	-12	-9	9	19	19	9	3	1	1	-2	-10	-12
1988	-5	0	0	0	0	0	5	0	-3	-7	-9	-12
1989	-4	0	0	0	0	0	5	0	-3	-6	-7	-11
1990	-4	0	0	0	0	0	4	0	-4	-8	-7	-10
1991	-5	0	0	0	0	0	1	-2	0	-2	-4	-6
1992	-3	0	0	0	0	0	3	1	-1	-8	-7	-11
1993	-5	0	0	-7	-2	6	0	0	1	0	-3	-11
1994	-9	-4	0	0	0	0	6	1	2	-4	-10	-12
1995	-5	0	-7	-16	-13	-3	-1	-1	1	2	-1	-11
1996	-13	-9	-3	1	6	5	1	1	1	-2	-4	-12
1997	-12	-6	-2	3	2	1	-1	-1	-3	-4	-4	-14
1998	3	19	9	-9	-15	-3	0	2	-1	2	-1	-11
1999	-11	-5	-2	1	4	12	10	2	3	-1	-6	-12
2000	6	25	11	0	-8	-16	-4	0	0	0	-3	-11
2001	-22	-27	-22	-20	-18	-7	4	0	1	-3	-9	-11
2002	-4	0	0	0	0	0	4	1	3	-2	-10	-12
2003	-5	0	0	0	0	0	3	-1	0	0	-7	-10

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Percent Change in Average Simulated Madera Canal at Friant Dam Deg. F
From No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					10%	8%	0%	2%	1%	0%	-3%	-18%
1981	-19%	-12%	22%	60%	60%	28%	6%	2%	-1%	-5%	-9%	-20%
1982	-11%	0%	0%	-19%	-9%	10%	3%	0%	-1%	-3%	-6%	-20%
1983	-17%	-12%	-5%	2%	5%	6%	-3%	-7%	7%	3%	-4%	-16%
1984	-19%	-16%	-6%	7%	11%	8%	3%	0%	-1%	-4%	-7%	-20%
1985	-18%	18%	66%	59%	57%	26%	8%	1%	1%	-4%	-16%	-17%
1986	-9%	0%	0%	-21%	-11%	11%	0%	2%	1%	-2%	-6%	-20%
1987	-20%	-15%	21%	59%	59%	27%	7%	2%	2%	-4%	-16%	-18%
1988	-11%	0%	0%	0%	0%	0%	12%	-1%	-5%	-12%	-13%	-18%
1989	-9%	0%	0%	0%	0%	0%	12%	0%	-5%	-11%	-11%	-16%
1990	-8%	0%	0%	0%	0%	0%	10%	0%	-7%	-13%	-11%	-15%
1991	-10%	0%	0%	0%	0%	0%	3%	-4%	0%	-4%	-6%	-10%
1992	-5%	0%	0%	0%	0%	0%	7%	1%	-2%	-12%	-10%	-16%
1993	-10%	0%	0%	-17%	-5%	12%	-1%	1%	2%	-1%	-4%	-18%
1994	-14%	-6%	1%	0%	0%	0%	14%	1%	4%	-6%	-16%	-18%
1995	-10%	0%	-18%	-33%	-29%	-7%	-3%	-1%	2%	3%	-2%	-18%
1996	-20%	-14%	-6%	2%	12%	10%	2%	2%	1%	-3%	-6%	-19%
1997	-19%	-10%	-3%	7%	4%	3%	-3%	-1%	-5%	-7%	-7%	-21%
1998	8%	59%	28%	-21%	-32%	-6%	1%	3%	-1%	3%	-2%	-18%
1999	-17%	-9%	-4%	1%	9%	32%	24%	3%	5%	-2%	-10%	-19%
2000	14%	77%	33%	0%	-20%	-33%	-8%	0%	-1%	-1%	-5%	-17%
2001	-35%	-46%	-41%	-38%	-36%	-18%	10%	-1%	3%	-6%	-14%	-17%
2002	-9%	0%	0%	0%	0%	0%	9%	2%	5%	-4%	-15%	-19%
2003	-11%	0%	0%	0%	0%	0%	8%	-1%	1%	0%	-11%	-15%

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated SJR at Friant Dam Deg. F
Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					45	45	46	48	50	53	53	54
1981	55	57	55	50	47	46	47	49	50	51	52	54
1982	58	58	54	46	44	44	45	48	50	52	53	54
1983	56	58	53	46	45	45	48	49	48	50	51	52
1984	53	55	54	46	45	45	47	49	50	51	53	54
1985	57	58	54	48	46	46	47	48	49	50	51	53
1986	57	57	53	46	45	45	46	48	51	52	53	53
1987	55	58	55	49	48	47	47	48	49	49	51	52
1988	56	59	54	47	45	46	46	47	48	49	50	53
1989	57	59	54	47	46	46	47	48	49	50	52	54
1990	57	58	54	48	47	47	48	48	49	50	51	54
1991	59	58	53	48	47	46	47	50	52	53	54	56
1992	58	59	54	48	46	46	47	48	49	50	51	54
1993	59	59	54	46	44	45	46	48	50	51	52	53
1994	55	57	55	49	47	47	48	48	49	50	51	53
1995	57	56	52	45	44	45	46	48	51	53	54	55
1996	55	57	56	49	45	45	47	48	50	51	52	54
1997	57	58	54	45	45	45	46	49	53	55	57	58
1998	59	60	55	48	45	46	47	50	52	54	55	56
1999	57	58	55	48	45	45	47	49	50	51	52	54
2000	56	60	56	50	46	46	48	49	51	52	53	54
2001	57	58	54	49	47	46	47	49	50	51	52	54
2002	58	60	55	47	46	47	48	49	50	51	52	54
2003	57	60	56	48	47	48	49	50	51	52	53	54

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated SJR at Friant Dam Deg. F
Alternative1 (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					50	49	48	48	49	53	53	54
1981	54	55	54	52	52	52	51	51	51	52	53	54
1982	56	59	57	53	50	48	47	47	48	50	52	53
1983	54	55	54	51	50	50	49	50	53	53	53	52
1984	52	53	54	52	51	51	50	50	51	51	52	54
1985	55	56	55	52	51	51	51	51	51	51	52	53
1986	54	57	56	53	52	48	47	47	48	51	52	53
1987	54	55	55	52	52	52	51	51	51	52	52	53
1988	54	55	56	53	50	49	49	49	49	49	50	50
1989	51	53	55	53	50	49	48	49	49	50	50	51
1990	52	54	56	54	52	50	49	49	49	49	50	50
1991	51	53	54	52	51	50	49	50	51	52	53	54
1992	55	57	57	54	51	49	49	49	49	50	50	51
1993	52	54	56	54	50	47	47	47	49	51	53	54
1994	55	57	56	53	52	51	50	50	51	51	51	52
1995	53	55	55	52	50	48	47	47	48	55	55	54
1996	55	55	56	55	53	51	50	51	52	53	53	55
1997	55	57	56	51	49	48	48	49	50	51	52	54
1998	55	56	56	54	52	50	49	49	50	56	55	55
1999	55	56	54	52	51	51	51	51	51	52	54	55
2000	56	58	58	56	53	51	51	51	52	53	54	55
2001	57	59	57	55	53	51	50	50	51	51	52	53
2002	55	57	58	55	51	50	50	50	50	51	51	52
2003	53	55	58	55	52	51	50	50	51	52	53	54

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Change in Average Simulated SJR at Friant Dam Deg. F
Alternative1 (2005) - Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					5	3	2	0	-1	0	-1	0
1981	-1	-2	0	3	5	5	4	2	2	2	1	0
1982	-2	1	4	7	6	4	2	-1	-3	-2	-1	-1
1983	-2	-3	1	6	5	4	1	0	5	3	2	1
1984	0	-2	0	7	6	5	3	1	0	0	0	-1
1985	-2	-2	2	5	5	5	4	2	2	1	1	0
1986	-3	0	3	7	6	3	0	-1	-2	-1	-1	-1
1987	-1	-3	0	3	4	5	4	3	3	2	1	0
1988	-2	-3	2	6	5	3	2	2	1	0	-1	-2
1989	-6	-6	1	6	4	3	2	0	0	-1	-1	-3
1990	-5	-4	2	5	4	3	1	0	0	0	-2	-4
1991	-8	-5	1	4	3	3	2	0	-1	-1	-1	-2
1992	-3	-2	3	5	5	3	2	1	0	0	-1	-3
1993	-7	-5	2	8	6	3	1	0	0	0	1	1
1994	1	0	1	4	5	4	3	2	1	1	0	-1
1995	-4	-2	3	7	6	3	0	-2	-3	2	1	0
1996	-1	-2	-1	6	7	6	3	2	3	2	1	1
1997	-1	-1	2	6	4	3	2	0	-3	-4	-4	-4
1998	-5	-4	1	6	6	4	2	-1	-2	1	0	-1
1999	-1	-2	0	4	6	6	4	2	2	2	2	2
2000	0	-2	2	6	7	5	3	1	1	1	1	1
2001	0	1	3	5	5	5	3	2	1	0	0	-1
2002	-3	-3	3	8	5	4	2	1	0	0	-1	-2
2003	-4	-4	2	7	5	3	2	1	0	0	0	0

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Percent Change in Average Simulated SJR at Friant Dam Deg. F
From Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					12%	8%	4%	1%	-1%	-1%	-1%	-1%
1981	-1%	-3%	-1%	6%	11%	11%	8%	5%	4%	3%	1%	0%
1982	-4%	1%	7%	16%	13%	9%	4%	-3%	-6%	-4%	-2%	-1%
1983	-3%	-4%	2%	13%	11%	9%	3%	1%	11%	7%	3%	1%
1984	-1%	-4%	0%	15%	14%	12%	7%	2%	1%	0%	-1%	-1%
1985	-4%	-3%	3%	10%	11%	11%	8%	5%	3%	3%	1%	0%
1986	-4%	0%	5%	15%	14%	6%	1%	-2%	-5%	-2%	-2%	-1%
1987	-2%	-5%	-1%	6%	9%	10%	8%	6%	5%	5%	3%	0%
1988	-4%	-6%	4%	13%	11%	8%	5%	4%	2%	1%	-1%	-4%
1989	-10%	-10%	2%	12%	10%	7%	4%	1%	0%	-1%	-3%	-5%
1990	-9%	-7%	3%	11%	9%	6%	2%	1%	0%	-1%	-3%	-7%
1991	-13%	-9%	3%	9%	7%	7%	3%	-1%	-2%	-2%	-2%	-3%
1992	-5%	-3%	6%	11%	11%	7%	3%	2%	0%	0%	-2%	-5%
1993	-11%	-9%	4%	17%	14%	6%	2%	-1%	-1%	-1%	1%	2%
1994	2%	0%	2%	9%	11%	9%	6%	4%	3%	2%	1%	-2%
1995	-7%	-3%	6%	15%	13%	7%	1%	-4%	-6%	4%	1%	-1%
1996	-2%	-4%	-1%	11%	16%	12%	7%	5%	5%	3%	2%	2%
1997	-2%	-2%	4%	13%	8%	7%	4%	-1%	-5%	-8%	-7%	-7%
1998	-8%	-6%	2%	12%	14%	8%	4%	-2%	-5%	3%	-1%	-1%
1999	-2%	-3%	0%	9%	14%	12%	8%	5%	4%	4%	4%	4%
2000	0%	-3%	3%	12%	15%	12%	6%	3%	2%	2%	2%	2%
2001	0%	2%	6%	11%	11%	10%	6%	3%	2%	0%	-1%	-2%
2002	-6%	-5%	6%	17%	12%	8%	4%	2%	0%	0%	-1%	-3%
2003	-7%	-7%	3%	14%	10%	7%	4%	1%	0%	0%	0%	0%

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated SJR at Friant Dam Deg. F
Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					45	45	46	48	50	53	53	54
1981	55	57	55	50	47	46	47	49	50	51	52	54
1982	58	58	54	46	44	44	45	48	50	52	53	54
1983	56	58	53	46	45	45	48	49	48	50	51	52
1984	53	55	54	46	45	45	47	49	50	51	53	54
1985	57	58	54	48	46	46	47	48	49	50	51	53
1986	57	57	53	46	45	45	46	48	51	52	53	53
1987	55	58	55	49	48	47	47	48	49	49	51	52
1988	56	59	54	47	45	46	46	47	48	49	50	53
1989	57	59	54	47	46	46	47	48	49	50	52	54
1990	57	58	54	48	47	47	48	48	49	50	51	54
1991	59	58	53	48	47	46	47	50	52	53	54	56
1992	58	59	54	48	46	46	47	48	49	50	51	54
1993	59	59	54	46	44	45	46	48	50	51	52	53
1994	55	57	55	49	47	47	48	48	49	50	51	53
1995	57	56	52	45	44	45	46	48	51	53	54	55
1996	55	57	56	49	45	45	47	48	50	51	52	54
1997	57	58	54	45	45	45	46	49	53	55	57	58
1998	59	60	55	48	45	46	47	50	52	54	55	56
1999	57	58	55	48	45	45	47	49	50	51	52	54
2000	56	60	56	50	46	46	48	49	51	52	53	54
2001	57	58	54	49	47	46	47	49	50	51	52	54
2002	58	60	55	47	46	47	48	49	50	51	52	54
2003	57	60	56	48	47	48	49	50	51	52	53	54

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated SJR at Friant Dam Deg. F
Alternative2 (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					50	48	48	48	49	52	53	54
1981	55	56	55	53	52	52	51	51	51	52	53	54
1982	56	59	57	53	50	48	47	47	48	50	52	53
1983	54	55	54	51	50	50	49	50	53	53	53	52
1984	52	53	54	52	51	51	50	50	51	51	53	54
1985	55	56	55	52	51	51	51	51	51	51	52	53
1986	54	58	56	53	51	48	47	47	48	51	52	53
1987	54	55	55	52	52	52	51	51	51	52	52	53
1988	53	55	56	53	50	49	49	49	49	49	50	50
1989	51	53	55	53	50	49	48	49	49	50	50	51
1990	52	54	56	54	52	50	49	49	49	49	50	50
1991	51	53	55	52	51	50	49	50	51	52	53	54
1992	55	57	57	53	51	49	49	49	49	50	50	51
1993	52	54	56	54	50	48	47	47	49	51	53	55
1994	56	57	56	53	52	51	50	50	50	51	51	52
1995	53	55	55	52	50	48	47	47	48	55	55	54
1996	55	55	56	55	53	51	50	51	52	53	53	55
1997	55	57	56	51	49	48	48	49	50	51	53	54
1998	55	57	56	54	52	50	49	49	50	55	55	55
1999	55	56	54	52	51	51	51	51	51	52	54	55
2000	56	58	58	56	53	52	51	51	52	53	54	55
2001	57	59	57	55	53	51	50	50	51	51	52	53
2002	55	57	58	55	52	50	50	50	50	51	51	52
2003	53	55	58	55	52	51	50	50	51	52	53	54

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Change in Average Simulated SJR at Friant Dam Deg. F
Alternative2 (2005) - Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					5	3	2	0	-1	-1	-1	0
1981	0	-1	0	3	5	5	4	2	2	1	1	0
1982	-2	1	4	7	6	4	2	-1	-3	-2	-1	-1
1983	-2	-3	1	6	5	4	1	0	5	3	2	1
1984	0	-2	0	7	6	5	3	1	0	0	0	-1
1985	-2	-1	2	5	5	5	4	2	2	1	1	0
1986	-2	0	3	7	6	3	0	-1	-2	-1	-1	0
1987	-1	-2	0	3	4	5	4	3	3	2	1	0
1988	-3	-4	2	6	5	4	2	2	1	0	-1	-2
1989	-6	-6	1	6	4	3	2	0	0	-1	-1	-3
1990	-5	-4	2	5	4	3	1	0	0	0	-2	-4
1991	-8	-5	2	4	3	3	2	0	-1	-1	-1	-2
1992	-3	-2	3	5	5	3	2	1	0	0	-1	-3
1993	-7	-5	2	8	6	3	1	0	0	0	1	2
1994	1	0	1	4	5	4	3	2	1	1	0	-1
1995	-4	-2	3	7	6	3	0	-2	-3	2	1	0
1996	-1	-2	0	6	7	6	3	2	3	2	1	1
1997	-1	-1	2	6	4	3	2	0	-3	-4	-4	-4
1998	-4	-3	1	6	6	4	2	-1	-3	1	0	-1
1999	-1	-2	0	4	6	6	4	2	2	2	2	2
2000	0	-2	2	6	7	6	3	2	1	1	1	1
2001	0	2	3	5	5	5	3	2	1	0	0	-1
2002	-3	-3	4	8	6	4	2	1	0	0	-1	-2
2003	-4	-4	2	7	5	3	2	1	0	0	0	0

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Percent Change in Average Simulated SJR at Friant Dam Deg. F
From Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					11%	7%	4%	1%	-1%	-1%	-1%	0%
1981	-1%	-2%	-1%	6%	11%	11%	8%	5%	3%	3%	1%	-1%
1982	-4%	2%	7%	16%	13%	9%	4%	-2%	-5%	-4%	-3%	-1%
1983	-3%	-5%	2%	13%	11%	9%	3%	1%	11%	7%	3%	1%
1984	-1%	-4%	0%	15%	14%	12%	7%	2%	1%	0%	0%	-1%
1985	-4%	-3%	3%	10%	11%	11%	8%	5%	3%	2%	1%	-1%
1986	-4%	1%	5%	15%	13%	6%	1%	-2%	-4%	-2%	-2%	-1%
1987	-2%	-4%	-1%	6%	9%	10%	8%	6%	5%	4%	3%	0%
1988	-5%	-6%	4%	13%	11%	8%	5%	4%	2%	1%	-1%	-4%
1989	-10%	-10%	2%	12%	10%	7%	4%	1%	0%	-1%	-3%	-5%
1990	-9%	-7%	3%	11%	9%	6%	2%	1%	0%	-1%	-3%	-7%
1991	-13%	-9%	3%	9%	7%	7%	3%	-1%	-2%	-2%	-2%	-3%
1992	-5%	-3%	6%	11%	11%	7%	3%	2%	0%	0%	-2%	-5%
1993	-11%	-9%	4%	17%	14%	7%	2%	-1%	-1%	0%	2%	3%
1994	2%	0%	2%	9%	11%	9%	5%	4%	2%	2%	0%	-2%
1995	-7%	-3%	6%	15%	13%	7%	1%	-4%	-6%	4%	1%	-1%
1996	-2%	-4%	-1%	11%	16%	12%	7%	5%	5%	3%	2%	1%
1997	-2%	-2%	4%	14%	8%	7%	3%	-1%	-5%	-8%	-7%	-6%
1998	-7%	-5%	2%	12%	14%	8%	4%	-2%	-5%	2%	-1%	-1%
1999	-2%	-4%	0%	9%	14%	12%	8%	5%	4%	4%	4%	3%
2000	0%	-3%	3%	12%	16%	12%	7%	3%	2%	2%	2%	2%
2001	1%	3%	6%	11%	11%	10%	6%	3%	2%	0%	-1%	-2%
2002	-6%	-5%	6%	17%	12%	8%	4%	2%	0%	0%	-1%	-3%
2003	-7%	-7%	3%	14%	10%	7%	4%	1%	0%	1%	1%	0%

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated SJR at Friant Dam Deg. F
Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					45	45	46	48	50	53	53	54
1981	55	57	55	50	47	46	47	49	50	51	52	54
1982	58	58	54	46	44	44	45	48	50	52	53	54
1983	56	58	53	46	45	45	48	49	48	50	51	52
1984	53	55	54	46	45	45	47	49	50	51	53	54
1985	57	58	54	48	46	46	47	48	49	50	51	53
1986	57	57	53	46	45	45	46	48	51	52	53	53
1987	55	58	55	49	48	47	47	48	49	49	51	52
1988	56	59	54	47	45	46	46	47	48	49	50	53
1989	57	59	54	47	46	46	47	48	49	50	52	54
1990	57	58	54	48	47	47	48	48	49	50	51	54
1991	59	58	53	48	47	46	47	50	52	53	54	56
1992	58	59	54	48	46	46	47	48	49	50	51	54
1993	59	59	54	46	44	45	46	48	50	51	52	53
1994	55	57	55	49	47	47	48	48	49	50	51	53
1995	57	56	52	45	44	45	46	48	51	53	54	55
1996	55	57	56	49	45	45	47	48	50	51	52	54
1997	57	58	54	45	45	45	46	49	53	55	57	58
1998	59	60	55	48	45	46	47	50	52	54	55	56
1999	57	58	55	48	45	45	47	49	50	51	52	54
2000	56	60	56	50	46	46	48	49	51	52	53	54
2001	57	58	54	49	47	46	47	49	50	51	52	54
2002	58	60	55	47	46	47	48	49	50	51	52	54
2003	57	60	56	48	47	48	49	50	51	52	53	54

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated SJR at Friant Dam Deg. F
Alternative3 (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					50	48	48	48	49	51	53	55
1981	55	56	55	53	52	52	51	51	51	52	53	54
1982	55	58	57	53	50	48	47	47	48	50	51	53
1983	54	55	54	51	50	49	49	50	53	53	53	52
1984	52	53	54	52	51	51	50	50	51	52	54	54
1985	55	56	56	53	51	51	51	51	51	51	52	53
1986	54	56	56	53	51	48	47	47	48	49	52	53
1987	54	55	55	53	52	52	51	51	51	51	52	52
1988	53	54	55	53	50	49	48	48	49	49	50	50
1989	51	53	55	53	50	49	48	49	49	50	50	51
1990	52	54	56	53	51	49	49	49	49	49	50	50
1991	51	52	54	52	51	50	49	50	51	52	53	54
1992	55	57	57	53	51	49	48	48	49	49	50	51
1993	52	54	57	53	49	47	47	48	50	53	55	56
1994	57	58	56	53	52	50	50	49	50	50	51	52
1995	53	55	55	52	49	47	47	47	48	54	55	55
1996	55	55	56	55	53	51	50	51	52	53	54	55
1997	56	57	56	51	49	48	48	49	50	51	53	55
1998	55	56	56	54	52	50	49	49	50	52	54	55
1999	56	56	55	52	52	51	51	51	52	53	55	56
2000	57	59	59	56	53	51	50	50	51	53	54	55
2001	57	58	57	55	52	51	50	50	50	51	52	53
2002	55	57	58	54	51	50	50	50	50	51	51	52
2003	53	56	58	55	52	51	50	50	51	52	53	54

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Change in Average Simulated SJR at Friant Dam Deg. F
Alternative3 (2005) - Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					5	3	2	0	-1	-2	0	1
1981	1	-1	0	3	5	5	4	2	1	1	0	0
1982	-3	-1	3	7	5	4	2	-1	-2	-3	-1	-1
1983	-2	-2	1	6	5	4	1	0	5	3	2	1
1984	0	-2	0	7	6	5	4	1	0	0	1	0
1985	-2	-2	2	5	5	5	4	2	2	1	1	-1
1986	-3	-1	3	6	6	3	0	-1	-3	-3	0	0
1987	-1	-3	0	3	5	5	4	3	2	2	1	0
1988	-3	-5	1	6	5	3	2	1	1	0	-1	-2
1989	-6	-6	1	5	4	3	1	0	0	-1	-2	-3
1990	-6	-4	2	5	4	3	1	0	0	0	-2	-4
1991	-8	-6	1	4	3	3	2	0	-1	-1	-1	-2
1992	-3	-2	3	5	5	3	1	0	0	-1	-1	-3
1993	-7	-5	2	7	5	3	1	1	1	1	3	3
1994	3	1	2	4	5	4	2	1	0	0	0	-1
1995	-4	-2	3	7	5	3	0	-2	-3	1	1	0
1996	-1	-2	-1	6	7	6	3	3	3	2	2	1
1997	-1	-1	2	6	4	3	2	0	-3	-4	-4	-3
1998	-5	-4	1	6	6	4	2	-1	-2	-3	-1	-1
1999	-1	-2	0	4	6	6	4	3	2	3	3	2
2000	1	-1	2	6	7	5	3	1	1	1	1	1
2001	0	1	3	5	5	4	3	1	1	0	0	-1
2002	-3	-3	4	7	5	3	2	1	0	0	-1	-2
2003	-4	-4	2	6	4	3	2	0	0	0	0	0

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Percent Change in Average Simulated SJR at Friant Dam Deg. F
From Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					11%	7%	3%	0%	-1%	-3%	0%	1%
1981	1%	-1%	0%	7%	11%	11%	8%	4%	3%	2%	1%	-1%
1982	-5%	-1%	6%	15%	12%	8%	4%	-2%	-5%	-5%	-3%	-2%
1983	-3%	-4%	2%	13%	11%	9%	3%	1%	11%	7%	3%	1%
1984	-1%	-4%	0%	15%	14%	12%	8%	3%	1%	1%	2%	0%
1985	-4%	-3%	4%	11%	12%	11%	8%	4%	3%	2%	1%	-1%
1986	-5%	-2%	5%	14%	13%	6%	1%	-2%	-5%	-5%	-1%	-1%
1987	-2%	-5%	0%	7%	10%	10%	8%	6%	5%	4%	2%	-1%
1988	-6%	-8%	2%	13%	10%	7%	4%	3%	2%	0%	-2%	-4%
1989	-10%	-10%	2%	11%	9%	6%	3%	0%	-1%	-1%	-3%	-6%
1990	-10%	-7%	3%	10%	9%	6%	2%	1%	0%	-1%	-3%	-7%
1991	-13%	-10%	2%	9%	7%	7%	4%	0%	-1%	-1%	-2%	-3%
1992	-5%	-4%	6%	11%	10%	7%	2%	1%	0%	-1%	-3%	-6%
1993	-11%	-9%	4%	16%	12%	6%	2%	1%	1%	3%	6%	6%
1994	5%	2%	3%	9%	10%	8%	4%	2%	1%	0%	-1%	-3%
1995	-7%	-3%	6%	15%	11%	6%	1%	-3%	-5%	2%	2%	0%
1996	-1%	-4%	-1%	12%	16%	13%	7%	5%	5%	4%	3%	2%
1997	-2%	-3%	4%	14%	8%	7%	3%	0%	-5%	-7%	-6%	-5%
1998	-8%	-7%	2%	13%	14%	8%	4%	-1%	-4%	-5%	-2%	-1%
1999	-2%	-3%	0%	9%	14%	12%	8%	5%	5%	5%	6%	4%
2000	1%	-2%	4%	12%	15%	11%	5%	2%	2%	3%	3%	2%
2001	0%	1%	6%	11%	11%	9%	5%	3%	1%	0%	-1%	-2%
2002	-6%	-5%	6%	15%	11%	7%	3%	2%	0%	0%	-1%	-3%
2003	-7%	-7%	4%	13%	9%	7%	3%	1%	0%	0%	0%	0%

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated SJR at Friant Dam Deg. F
Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					45	45	46	48	50	53	53	54
1981	55	57	55	50	47	46	47	49	50	51	52	54
1982	58	58	54	46	44	44	45	48	50	52	53	54
1983	56	58	53	46	45	45	48	49	48	50	51	52
1984	53	55	54	46	45	45	47	49	50	51	53	54
1985	57	58	54	48	46	46	47	48	49	50	51	53
1986	57	57	53	46	45	45	46	48	51	52	53	53
1987	55	58	55	49	48	47	47	48	49	49	51	52
1988	56	59	54	47	45	46	46	47	48	49	50	53
1989	57	59	54	47	46	46	47	48	49	50	52	54
1990	57	58	54	48	47	47	48	48	49	50	51	54
1991	59	58	53	48	47	46	47	50	52	53	54	56
1992	58	59	54	48	46	46	47	48	49	50	51	54
1993	59	59	54	46	44	45	46	48	50	51	52	53
1994	55	57	55	49	47	47	48	48	49	50	51	53
1995	57	56	52	45	44	45	46	48	51	53	54	55
1996	55	57	56	49	45	45	47	48	50	51	52	54
1997	57	58	54	45	45	45	46	49	53	55	57	58
1998	59	60	55	48	45	46	47	50	52	54	55	56
1999	57	58	55	48	45	45	47	49	50	51	52	54
2000	56	60	56	50	46	46	48	49	51	52	53	54
2001	57	58	54	49	47	46	47	49	50	51	52	54
2002	58	60	55	47	46	47	48	49	50	51	52	54
2003	57	60	56	48	47	48	49	50	51	52	53	54

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated SJR at Friant Dam Deg. F
Alternative4 (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					49	48	48	49	53	56	55	49
1981	49	49	50	51	51	51	51	51	52	54	54	51
1982	51	51	52	51	50	48	47	48	52	54	54	49
1983	48	49	52	51	49	49	49	50	54	54	54	50
1984	50	50	52	52	51	50	50	50	52	55	55	51
1985	51	51	52	51	50	50	50	50	51	52	52	51
1986	51	51	52	52	51	48	47	49	53	55	55	49
1987	48	49	49	50	50	50	50	50	50	51	52	51
1988	51	51	51	51	50	50	49	49	49	50	50	50
1989	51	51	51	51	51	50	49	49	50	50	51	51
1990	51	51	51	52	52	51	50	50	50	51	51	51
1991	51	51	51	52	51	51	50	50	51	53	54	53
1992	54	54	55	53	51	50	50	50	50	51	51	51
1993	51	51	51	53	50	48	48	49	51	55	56	50
1994	49	50	50	51	51	51	50	50	50	51	51	51
1995	51	51	51	51	49	48	47	48	53	57	56	49
1996	49	49	50	52	52	50	50	51	54	56	57	52
1997	51	51	52	50	48	48	48	50	54	56	56	50
1998	49	49	50	50	50	49	49	49	54	58	57	51
1999	50	50	51	51	51	50	50	51	53	55	55	52
2000	52	52	52	53	52	51	51	51	53	54	55	52
2001	52	52	52	53	52	51	51	51	51	52	53	52
2002	52	52	53	53	52	51	51	51	51	52	52	51
2003	51	52	52	52	52	52	51	51	52	53	54	53

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Change in Average Simulated SJR at Friant Dam Deg. F
Alternative4 (2005) - Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					4	3	2	1	3	3	2	-5
1981	-6	-8	-5	1	4	5	3	2	2	3	2	-3
1982	-7	-7	-2	6	5	4	2	0	2	2	1	-5
1983	-7	-9	-1	5	4	4	1	1	6	4	3	-1
1984	-3	-5	-2	6	6	5	3	1	2	3	2	-4
1985	-7	-7	-2	3	4	4	3	2	2	2	1	-2
1986	-5	-6	-1	6	6	3	1	1	2	3	2	-4
1987	-6	-9	-6	0	3	4	3	2	2	2	1	-1
1988	-5	-7	-3	5	5	4	3	2	2	1	0	-2
1989	-6	-8	-3	4	5	4	3	1	0	0	-1	-3
1990	-6	-7	-3	3	4	4	2	2	1	1	0	-3
1991	-8	-7	-2	4	4	4	3	0	0	0	0	-2
1992	-5	-5	1	5	5	4	3	2	1	1	0	-3
1993	-8	-8	-3	7	6	4	2	1	2	4	4	-3
1994	-5	-7	-5	2	4	4	2	1	1	1	0	-2
1995	-6	-5	-1	6	5	3	1	-1	2	4	2	-6
1996	-7	-8	-6	3	6	5	3	2	5	5	5	-2
1997	-5	-7	-2	5	3	3	1	0	0	0	0	-8
1998	-10	-10	-6	2	5	3	1	0	1	3	2	-5
1999	-6	-8	-3	3	5	5	3	2	4	5	3	-2
2000	-5	-8	-4	4	6	5	3	1	2	3	2	-2
2001	-5	-6	-2	4	5	5	3	2	1	1	0	-2
2002	-6	-8	-2	6	6	4	3	2	1	1	0	-2
2003	-6	-8	-4	3	5	4	3	1	1	1	1	-1

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Percent Change in Average Simulated SJR at Friant Dam Deg. F
From Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					10%	7%	3%	3%	5%	5%	3%	-9%
1981	-11%	-14%	-10%	2%	8%	10%	7%	4%	5%	6%	4%	-5%
1982	-12%	-12%	-4%	12%	12%	9%	5%	-1%	3%	4%	2%	-10%
1983	-13%	-15%	-2%	11%	10%	9%	2%	1%	12%	8%	7%	-3%
1984	-5%	-8%	-3%	13%	13%	11%	7%	2%	4%	6%	4%	-7%
1985	-11%	-12%	-4%	7%	9%	9%	7%	4%	3%	4%	2%	-4%
1986	-10%	-10%	-2%	13%	13%	7%	2%	1%	5%	6%	4%	-8%
1987	-12%	-15%	-11%	1%	5%	8%	6%	5%	4%	3%	2%	-2%
1988	-9%	-12%	-5%	10%	11%	9%	6%	5%	4%	2%	0%	-4%
1989	-11%	-14%	-6%	8%	11%	10%	6%	2%	1%	0%	-1%	-6%
1990	-11%	-12%	-5%	7%	9%	8%	5%	4%	3%	1%	-1%	-6%
1991	-13%	-12%	-3%	8%	8%	9%	5%	0%	0%	0%	0%	-4%
1992	-8%	-8%	2%	10%	11%	9%	6%	4%	2%	2%	0%	-6%
1993	-13%	-14%	-5%	14%	14%	9%	4%	2%	4%	7%	8%	-6%
1994	-10%	-13%	-8%	4%	8%	8%	5%	3%	2%	1%	0%	-4%
1995	-10%	-10%	-1%	13%	12%	8%	2%	-1%	4%	7%	4%	-10%
1996	-12%	-14%	-10%	6%	14%	12%	6%	5%	9%	10%	9%	-4%
1997	-10%	-12%	-3%	11%	7%	6%	3%	0%	1%	0%	0%	-13%
1998	-17%	-17%	-10%	5%	11%	7%	3%	-1%	3%	6%	3%	-9%
1999	-11%	-13%	-6%	6%	12%	11%	7%	4%	7%	9%	6%	-3%
2000	-8%	-13%	-7%	7%	14%	11%	6%	3%	4%	5%	4%	-4%
2001	-9%	-10%	-3%	8%	10%	11%	7%	4%	2%	1%	1%	-4%
2002	-11%	-13%	-4%	13%	13%	9%	6%	3%	2%	2%	1%	-4%
2003	-10%	-13%	-7%	7%	10%	9%	5%	3%	2%	2%	2%	-3%

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated SJR at Friant Dam Deg. F
Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					45	45	46	48	50	53	53	54
1981	55	57	55	50	47	46	47	49	50	51	52	54
1982	58	58	54	46	44	44	45	48	50	52	53	54
1983	56	58	53	46	45	45	48	49	48	50	51	52
1984	53	55	54	46	45	45	47	49	50	51	53	54
1985	57	58	54	48	46	46	47	48	49	50	51	53
1986	57	57	53	46	45	45	46	48	51	52	53	53
1987	55	58	55	49	48	47	47	48	49	49	51	52
1988	56	59	54	47	45	46	46	47	48	49	50	53
1989	57	59	54	47	46	46	47	48	49	50	52	54
1990	57	58	54	48	47	47	48	48	49	50	51	54
1991	59	58	53	48	47	46	47	50	52	53	54	56
1992	58	59	54	48	46	46	47	48	49	50	51	54
1993	59	59	54	46	44	45	46	48	50	51	52	53
1994	55	57	55	49	47	47	48	48	49	50	51	53
1995	57	56	52	45	44	45	46	48	51	53	54	55
1996	55	57	56	49	45	45	47	48	50	51	52	54
1997	57	58	54	45	45	45	46	49	53	55	57	58
1998	59	60	55	48	45	46	47	50	52	54	55	56
1999	57	58	55	48	45	45	47	49	50	51	52	54
2000	56	60	56	50	46	46	48	49	51	52	53	54
2001	57	58	54	49	47	46	47	49	50	51	52	54
2002	58	60	55	47	46	47	48	49	50	51	52	54
2003	57	60	56	48	47	48	49	50	51	52	53	54

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated SJR at Friant Dam Deg. F
Alternative5 (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					49	48	47	48	49	51	53	54
1981	55	56	55	53	52	51	51	51	52	53	55	57
1982	61	59	55	49	47	46	46	47	49	51	52	54
1983	54	56	55	51	49	49	49	49	53	53	52	52
1984	52	53	54	52	51	51	50	50	51	52	54	54
1985	55	56	56	53	51	51	51	51	51	52	54	55
1986	58	59	55	50	49	46	46	47	48	50	51	53
1987	55	56	56	53	52	51	50	50	51	52	53	55
1988	58	60	55	49	48	48	49	49	50	51	52	54
1989	58	59	54	49	48	48	49	50	51	52	53	55
1990	59	59	54	50	49	49	49	50	51	52	53	55
1991	60	59	53	49	49	50	51	54	55	56	57	59
1992	62	60	54	50	49	48	49	50	51	52	53	55
1993	60	60	54	49	46	47	48	50	52	54	55	56
1994	57	59	57	53	51	50	49	49	50	51	53	56
1995	59	58	53	49	46	46	47	48	49	51	54	55
1996	56	56	56	55	53	51	51	51	52	53	54	55
1997	56	57	56	51	49	48	48	50	51	51	53	54
1998	55	56	56	54	52	50	49	49	50	53	55	55
1999	55	56	55	52	52	51	51	51	52	53	54	56
2000	56	57	58	56	53	52	51	51	52	53	55	56
2001	57	59	57	55	53	51	50	51	52	53	55	58
2002	61	61	57	50	48	49	50	51	51	52	54	56
2003	59	60	57	51	49	49	50	51	54	55	56	58

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Change in Average Simulated SJR at Friant Dam Deg. F
Alternative5 (2005) - Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					5	3	1	0	-1	-2	-1	0
1981	0	-1	0	4	5	5	4	2	2	3	3	3
1982	3	1	1	3	2	2	1	-1	-1	-2	-1	0
1983	-1	-2	2	6	4	4	1	0	5	3	2	1
1984	0	-2	0	7	6	5	4	1	1	0	1	0
1985	-2	-1	2	5	5	5	4	2	2	2	2	2
1986	2	1	1	4	4	1	-1	-1	-2	-2	-1	0
1987	0	-2	1	4	5	4	3	3	2	2	2	2
1988	2	1	1	2	3	3	2	2	2	2	1	1
1989	2	1	0	2	2	3	3	2	2	1	1	1
1990	2	1	0	2	2	2	2	2	2	2	1	1
1991	1	1	0	1	2	4	3	4	4	3	3	3
1992	4	1	0	2	3	3	2	2	2	2	1	1
1993	1	1	0	3	2	2	2	2	2	2	3	3
1994	3	2	2	4	4	3	2	1	1	1	2	3
1995	2	1	1	4	2	1	0	-1	-2	-2	-1	0
1996	0	-1	0	6	7	6	4	3	3	2	2	1
1997	-1	-1	2	6	4	3	2	0	-3	-4	-3	-3
1998	-4	-4	1	6	6	4	2	-1	-2	-2	-1	-1
1999	-1	-2	0	4	6	6	4	3	2	2	2	2
2000	0	-2	2	6	7	6	3	2	2	2	2	2
2001	0	1	3	5	5	5	3	2	2	2	3	3
2002	3	1	2	3	2	2	2	2	2	2	2	2
2003	2	1	1	3	1	1	2	1	3	3	3	4

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Percent Change in Average Simulated SJR at Friant Dam Deg. F
From Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					11%	6%	2%	-1%	-2%	-4%	-1%	1%
1981	0%	-1%	1%	7%	12%	11%	8%	5%	4%	5%	5%	6%
1982	5%	1%	2%	7%	5%	4%	2%	-1%	-3%	-3%	-1%	-1%
1983	-2%	-3%	3%	13%	10%	9%	2%	0%	11%	7%	3%	1%
1984	-1%	-4%	0%	15%	14%	12%	8%	3%	1%	1%	2%	0%
1985	-3%	-3%	4%	11%	12%	11%	8%	5%	4%	4%	4%	4%
1986	3%	3%	3%	9%	8%	2%	-1%	-3%	-5%	-4%	-2%	0%
1987	-1%	-3%	2%	8%	10%	10%	7%	5%	5%	5%	5%	4%
1988	4%	2%	2%	5%	6%	6%	5%	5%	4%	4%	3%	3%
1989	3%	1%	0%	3%	4%	6%	6%	4%	4%	3%	2%	2%
1990	3%	1%	0%	3%	4%	4%	4%	5%	5%	4%	3%	2%
1991	2%	1%	0%	2%	4%	8%	7%	8%	7%	6%	5%	6%
1992	6%	2%	0%	4%	5%	6%	4%	5%	4%	4%	2%	2%
1993	2%	1%	0%	6%	5%	5%	5%	5%	4%	4%	6%	6%
1994	5%	3%	4%	9%	9%	7%	3%	2%	2%	3%	4%	6%
1995	4%	2%	2%	8%	5%	3%	0%	-2%	-3%	-4%	-1%	1%
1996	0%	-2%	0%	12%	16%	13%	8%	6%	5%	4%	3%	2%
1997	-2%	-2%	4%	14%	8%	7%	4%	0%	-5%	-7%	-6%	-6%
1998	-7%	-6%	2%	13%	14%	8%	4%	-1%	-4%	-3%	-1%	-1%
1999	-2%	-3%	0%	9%	14%	12%	8%	5%	4%	4%	5%	4%
2000	0%	-4%	3%	12%	16%	12%	7%	4%	3%	3%	3%	3%
2001	1%	2%	6%	11%	11%	10%	6%	4%	4%	5%	6%	6%
2002	5%	2%	3%	7%	5%	5%	5%	4%	3%	3%	3%	3%
2003	4%	1%	3%	6%	3%	2%	4%	3%	6%	6%	6%	7%

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated SJR at Friant Dam Deg. F
No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					45	45	47	49	51	53	53	54
1981	55	57	55	50	47	46	47	49	50	51	52	54
1982	58	58	54	46	44	44	45	48	50	52	53	54
1983	56	58	53	46	45	45	48	49	48	50	51	52
1984	53	55	54	46	45	45	47	50	52	53	54	55
1985	58	58	53	47	46	46	47	49	50	50	52	54
1986	57	57	53	46	45	45	46	48	50	52	53	53
1987	55	58	55	49	47	47	47	48	48	49	50	52
1988	56	58	53	46	45	45	46	47	48	49	51	53
1989	58	59	54	47	46	46	47	48	49	50	52	54
1990	57	58	54	48	47	47	48	48	49	50	51	54
1991	58	58	53	48	47	46	47	50	52	53	54	56
1992	58	59	54	48	46	46	47	48	49	50	52	54
1993	59	59	54	46	44	45	46	48	50	52	52	53
1994	55	57	55	49	47	46	47	48	49	50	51	53
1995	57	57	52	46	44	45	47	49	51	53	54	55
1996	55	57	56	49	45	45	47	49	50	51	53	54
1997	57	58	54	45	45	45	47	51	54	56	57	58
1998	60	59	55	47	45	45	47	50	52	54	55	56
1999	57	58	55	47	45	45	47	49	50	51	52	54
2000	57	60	56	50	46	46	48	50	51	52	53	55
2001	57	58	54	49	47	46	47	49	50	51	53	55
2002	58	60	55	46	46	47	48	49	50	51	52	54
2003	58	60	56	48	47	47	49	50	51	52	53	54

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated SJR at Friant Dam Deg. F
Alternative1 (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					50	48	48	48	49	51	53	54
1981	56	56	55	53	52	51	51	51	51	52	53	54
1982	56	59	57	53	49	48	47	47	48	50	52	54
1983	55	56	55	51	50	49	49	50	53	53	53	52
1984	52	53	54	52	51	51	50	50	51	52	53	54
1985	55	57	56	53	51	51	51	51	51	51	52	53
1986	54	57	56	53	51	48	47	47	48	50	52	54
1987	54	56	56	53	52	52	51	51	51	51	52	52
1988	53	54	55	53	50	49	48	48	49	49	50	50
1989	51	53	55	53	50	49	48	49	49	50	50	51
1990	52	54	56	53	51	50	49	49	49	49	50	50
1991	51	52	54	52	51	50	49	50	51	52	53	54
1992	55	57	57	53	51	49	48	48	49	49	50	51
1993	52	54	57	53	49	47	47	48	50	52	54	56
1994	57	58	57	53	52	50	49	49	50	50	51	52
1995	53	55	55	52	49	47	47	47	48	54	55	55
1996	55	55	56	55	53	51	50	51	52	53	54	55
1997	56	57	56	51	49	48	48	49	50	51	53	54
1998	55	56	57	54	52	50	49	49	50	52	55	55
1999	56	56	55	52	52	51	51	51	52	53	54	56
2000	57	59	59	56	53	51	50	50	51	53	54	55
2001	57	59	57	54	52	51	50	50	50	51	52	53
2002	55	57	58	54	51	50	50	50	50	51	51	52
2003	53	55	58	55	52	51	50	50	51	52	53	54

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Change in Average Simulated SJR at Friant Dam Deg. F
Alternative1 (2030) - No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					5	3	1	-1	-1	-2	0	1
1981	1	0	0	3	5	5	3	2	1	1	0	0
1982	-2	1	4	7	5	3	2	-1	-3	-3	-1	0
1983	-1	-2	1	6	5	4	1	1	5	3	2	1
1984	0	-2	0	7	6	5	3	0	-1	-1	0	-1
1985	-2	-1	2	5	6	5	4	2	1	1	0	-1
1986	-3	0	3	6	6	3	0	-1	-2	-2	0	0
1987	-1	-2	0	4	5	5	4	3	3	2	1	0
1988	-4	-5	2	6	5	3	2	1	0	0	-1	-3
1989	-6	-6	1	5	4	3	1	0	0	-1	-1	-3
1990	-6	-4	2	5	4	3	1	0	0	0	-1	-4
1991	-7	-6	1	4	3	4	2	0	-1	-1	-1	-2
1992	-3	-2	3	5	5	3	1	0	0	-1	-2	-3
1993	-7	-5	2	7	5	3	1	0	0	1	2	2
1994	2	1	2	5	5	4	2	1	1	0	0	-1
1995	-4	-2	3	6	5	3	0	-2	-2	1	1	0
1996	-1	-2	0	6	8	6	3	2	2	1	1	1
1997	-1	-1	2	6	4	3	1	-2	-4	-5	-5	-4
1998	-5	-3	2	7	7	4	2	-1	-2	-2	-1	-1
1999	-1	-2	0	5	7	6	4	2	2	2	2	2
2000	0	-1	3	6	7	5	2	0	0	0	1	1
2001	0	1	3	5	5	5	3	1	0	0	-1	-2
2002	-4	-3	4	7	5	3	2	1	0	0	-1	-2
2003	-4	-4	2	7	5	3	2	1	0	0	0	0

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Percent Change in Average Simulated SJR at Friant Dam Deg. F
From No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					12%	7%	2%	-1%	-3%	-3%	0%	2%
1981	2%	0%	1%	7%	11%	11%	7%	4%	2%	2%	1%	-1%
1982	-4%	1%	7%	15%	11%	8%	4%	-2%	-5%	-5%	-2%	-1%
1983	-2%	-3%	2%	13%	11%	9%	2%	1%	11%	7%	3%	1%
1984	-1%	-4%	0%	15%	14%	12%	6%	0%	-2%	-2%	-1%	-2%
1985	-4%	-2%	4%	11%	12%	11%	8%	4%	2%	2%	1%	-2%
1986	-5%	0%	5%	14%	13%	6%	0%	-2%	-5%	-5%	-1%	0%
1987	-1%	-3%	1%	7%	10%	11%	8%	7%	5%	4%	3%	0%
1988	-6%	-8%	3%	13%	11%	7%	4%	2%	1%	-1%	-3%	-6%
1989	-11%	-10%	2%	11%	9%	7%	3%	1%	0%	-1%	-3%	-6%
1990	-10%	-7%	4%	10%	9%	6%	2%	1%	0%	-1%	-3%	-7%
1991	-13%	-10%	3%	9%	7%	8%	4%	0%	-1%	-2%	-2%	-3%
1992	-5%	-4%	6%	11%	10%	6%	2%	0%	-1%	-2%	-3%	-6%
1993	-12%	-9%	4%	16%	12%	6%	1%	0%	1%	2%	4%	5%
1994	4%	2%	4%	10%	10%	8%	4%	3%	1%	1%	-1%	-3%
1995	-7%	-4%	5%	14%	10%	6%	-1%	-4%	-5%	2%	2%	0%
1996	-1%	-3%	0%	12%	17%	13%	7%	3%	4%	2%	2%	1%
1997	-2%	-2%	4%	14%	8%	7%	2%	-3%	-7%	-9%	-8%	-7%
1998	-8%	-5%	3%	14%	15%	10%	4%	-1%	-4%	-3%	-1%	-1%
1999	-2%	-3%	0%	10%	15%	13%	8%	4%	3%	3%	4%	3%
2000	0%	-1%	5%	13%	15%	11%	4%	0%	0%	1%	1%	1%
2001	0%	3%	6%	11%	11%	10%	5%	2%	1%	0%	-1%	-3%
2002	-7%	-5%	6%	16%	11%	7%	4%	2%	0%	0%	-1%	-3%
2003	-7%	-7%	4%	14%	10%	7%	4%	1%	0%	0%	0%	-1%

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated SJR at Friant Dam Deg. F
No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					45	45	47	49	51	53	53	54
1981	55	57	55	50	47	46	47	49	50	51	52	54
1982	58	58	54	46	44	44	45	48	50	52	53	54
1983	56	58	53	46	45	45	48	49	48	50	51	52
1984	53	55	54	46	45	45	47	50	52	53	54	55
1985	58	58	53	47	46	46	47	49	50	50	52	54
1986	57	57	53	46	45	45	46	48	50	52	53	53
1987	55	58	55	49	47	47	47	48	48	49	50	52
1988	56	58	53	46	45	45	46	47	48	49	51	53
1989	58	59	54	47	46	46	47	48	49	50	52	54
1990	57	58	54	48	47	47	48	48	49	50	51	54
1991	58	58	53	48	47	46	47	50	52	53	54	56
1992	58	59	54	48	46	46	47	48	49	50	52	54
1993	59	59	54	46	44	45	46	48	50	52	52	53
1994	55	57	55	49	47	46	47	48	49	50	51	53
1995	57	57	52	46	44	45	47	49	51	53	54	55
1996	55	57	56	49	45	45	47	49	50	51	53	54
1997	57	58	54	45	45	45	47	51	54	56	57	58
1998	60	59	55	47	45	45	47	50	52	54	55	56
1999	57	58	55	47	45	45	47	49	50	51	52	54
2000	57	60	56	50	46	46	48	50	51	52	53	55
2001	57	58	54	49	47	46	47	49	50	51	53	55
2002	58	60	55	46	46	47	48	49	50	51	52	54
2003	58	60	56	48	47	47	49	50	51	52	53	54

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated SJR at Friant Dam Deg. F
Alternative2 (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					50	48	48	48	49	51	53	55
1981	55	56	55	53	52	51	51	51	51	52	53	54
1982	56	60	57	53	50	48	47	47	48	50	52	53
1983	55	56	55	51	50	49	49	50	53	53	53	52
1984	52	53	54	52	51	51	50	50	51	52	53	54
1985	55	57	56	53	51	51	51	51	51	51	52	53
1986	54	57	56	53	51	48	47	47	48	50	52	53
1987	54	56	56	53	52	52	51	51	51	51	52	52
1988	53	54	55	53	50	49	48	48	49	49	50	50
1989	51	53	55	53	50	49	48	49	49	50	50	51
1990	52	54	56	53	51	50	49	49	49	49	50	50
1991	51	52	54	52	51	50	49	50	51	52	53	54
1992	55	57	57	53	51	49	48	48	49	49	50	51
1993	52	54	57	53	49	47	47	48	50	52	54	55
1994	57	58	57	53	52	50	50	49	50	50	51	52
1995	53	55	55	52	49	47	47	47	48	54	55	55
1996	55	55	56	55	53	51	50	51	52	53	54	55
1997	56	57	56	51	49	48	48	49	50	51	53	54
1998	55	56	57	54	52	50	49	49	50	53	55	55
1999	56	56	55	52	52	51	51	51	52	53	55	56
2000	57	59	59	56	53	51	50	50	51	53	54	55
2001	57	59	57	55	53	51	50	50	50	51	52	53
2002	55	57	58	54	51	50	50	50	50	51	51	52
2003	53	55	58	55	52	51	50	50	51	52	53	54

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Change in Average Simulated SJR at Friant Dam Deg. F
Alternative2 (2030) - No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					5	3	1	-1	-1	-2	0	1
1981	1	0	0	3	5	5	3	2	1	1	0	-1
1982	-2	1	4	7	5	4	2	-1	-3	-2	-1	-1
1983	-1	-2	1	6	5	4	1	1	5	3	2	1
1984	0	-2	0	7	6	5	3	0	-1	-1	0	-1
1985	-2	-1	2	5	6	5	4	2	1	1	0	-1
1986	-3	0	3	7	6	3	0	-1	-2	-2	-1	0
1987	-1	-2	0	4	5	5	4	3	3	2	1	0
1988	-4	-5	2	6	5	3	2	1	0	0	-1	-3
1989	-6	-6	1	5	4	3	2	0	0	0	-1	-3
1990	-6	-4	2	5	4	3	1	0	0	0	-1	-4
1991	-7	-6	1	4	3	4	2	0	-1	-1	-1	-2
1992	-3	-2	3	5	5	3	1	0	0	-1	-2	-3
1993	-7	-5	2	7	5	3	1	0	0	1	2	2
1994	2	1	2	5	5	4	2	1	1	0	0	-1
1995	-4	-2	3	6	5	3	0	-2	-2	1	1	0
1996	-1	-2	0	6	8	6	3	2	2	1	1	1
1997	-1	-1	2	6	4	3	1	-2	-4	-5	-5	-4
1998	-5	-3	2	7	7	4	2	-1	-2	-2	-1	-1
1999	-1	-2	0	5	7	6	4	2	2	2	2	2
2000	0	-1	3	6	7	5	2	0	0	1	1	0
2001	0	2	3	5	5	5	3	1	0	0	-1	-2
2002	-4	-3	4	7	5	3	2	1	0	0	-1	-2
2003	-4	-4	2	7	5	3	2	1	0	0	0	0

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Percent Change in Average Simulated SJR at Friant Dam Deg. F
From No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					12%	7%	2%	-1%	-3%	-4%	-1%	2%
1981	2%	0%	1%	7%	11%	11%	7%	4%	2%	2%	1%	-1%
1982	-4%	2%	7%	15%	12%	8%	4%	-2%	-5%	-5%	-2%	-1%
1983	-2%	-3%	2%	13%	11%	9%	2%	1%	11%	7%	3%	1%
1984	-1%	-4%	0%	15%	14%	12%	6%	0%	-2%	-2%	-1%	-2%
1985	-4%	-2%	4%	11%	12%	11%	8%	4%	2%	2%	1%	-2%
1986	-5%	0%	5%	14%	13%	6%	0%	-1%	-5%	-4%	-2%	-1%
1987	-1%	-3%	1%	7%	10%	11%	8%	7%	5%	4%	3%	0%
1988	-6%	-8%	3%	13%	11%	7%	4%	2%	1%	0%	-2%	-6%
1989	-11%	-10%	2%	11%	9%	7%	3%	1%	0%	-1%	-3%	-6%
1990	-10%	-7%	4%	10%	9%	6%	2%	1%	0%	-1%	-3%	-7%
1991	-13%	-10%	3%	9%	7%	8%	4%	0%	-1%	-2%	-2%	-3%
1992	-5%	-4%	6%	11%	10%	7%	2%	1%	0%	-1%	-3%	-6%
1993	-12%	-9%	4%	16%	12%	6%	2%	0%	1%	2%	4%	4%
1994	4%	2%	4%	10%	10%	9%	5%	3%	2%	1%	-1%	-3%
1995	-7%	-4%	5%	13%	11%	6%	-1%	-4%	-5%	2%	2%	0%
1996	-1%	-3%	0%	12%	17%	13%	7%	3%	4%	2%	2%	1%
1997	-2%	-2%	4%	14%	8%	7%	2%	-3%	-7%	-9%	-8%	-7%
1998	-8%	-5%	3%	14%	15%	10%	4%	-1%	-4%	-3%	-1%	-1%
1999	-2%	-3%	0%	10%	15%	13%	8%	4%	3%	3%	4%	3%
2000	0%	-1%	5%	13%	15%	11%	5%	1%	0%	1%	1%	1%
2001	0%	3%	6%	11%	11%	10%	6%	3%	1%	0%	-1%	-3%
2002	-7%	-5%	6%	16%	11%	7%	4%	2%	0%	0%	-1%	-3%
2003	-7%	-7%	4%	13%	10%	7%	4%	1%	0%	0%	0%	-1%

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated SJR at Friant Dam Deg. F
No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					45	45	47	49	51	53	53	54
1981	55	57	55	50	47	46	47	49	50	51	52	54
1982	58	58	54	46	44	44	45	48	50	52	53	54
1983	56	58	53	46	45	45	48	49	48	50	51	52
1984	53	55	54	46	45	45	47	50	52	53	54	55
1985	58	58	53	47	46	46	47	49	50	50	52	54
1986	57	57	53	46	45	45	46	48	50	52	53	53
1987	55	58	55	49	47	47	47	48	48	49	50	52
1988	56	58	53	46	45	45	46	47	48	49	51	53
1989	58	59	54	47	46	46	47	48	49	50	52	54
1990	57	58	54	48	47	47	48	48	49	50	51	54
1991	58	58	53	48	47	46	47	50	52	53	54	56
1992	58	59	54	48	46	46	47	48	49	50	52	54
1993	59	59	54	46	44	45	46	48	50	52	52	53
1994	55	57	55	49	47	46	47	48	49	50	51	53
1995	57	57	52	46	44	45	47	49	51	53	54	55
1996	55	57	56	49	45	45	47	49	50	51	53	54
1997	57	58	54	45	45	45	47	51	54	56	57	58
1998	60	59	55	47	45	45	47	50	52	54	55	56
1999	57	58	55	47	45	45	47	49	50	51	52	54
2000	57	60	56	50	46	46	48	50	51	52	53	55
2001	57	58	54	49	47	46	47	49	50	51	53	55
2002	58	60	55	46	46	47	48	49	50	51	52	54
2003	58	60	56	48	47	47	49	50	51	52	53	54

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated SJR at Friant Dam Deg. F
Alternative3 (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					50	48	48	48	49	51	53	55
1981	55	56	55	53	52	52	51	51	51	52	53	54
1982	55	58	57	53	50	48	47	47	48	50	51	53
1983	54	55	54	51	50	49	49	50	53	53	53	52
1984	52	53	54	52	51	51	50	50	51	52	54	54
1985	55	56	56	53	51	51	51	51	51	51	52	53
1986	54	56	56	53	51	48	47	47	48	49	52	53
1987	54	55	55	53	52	52	51	51	51	51	52	52
1988	53	54	55	53	50	49	48	48	49	49	50	50
1989	51	53	55	53	50	49	48	49	49	50	50	51
1990	52	54	56	53	51	49	49	49	49	49	50	50
1991	51	52	54	52	51	50	49	50	51	52	53	54
1992	55	57	57	53	51	49	48	48	49	49	50	51
1993	52	54	57	53	49	47	47	48	50	53	55	56
1994	57	58	56	53	52	50	50	49	50	50	51	52
1995	53	55	55	52	49	47	47	47	48	54	55	55
1996	55	55	56	55	53	51	50	51	52	53	54	55
1997	56	57	56	51	49	48	48	49	50	51	53	55
1998	55	56	56	54	52	50	49	49	50	52	54	55
1999	56	56	55	52	52	51	51	51	52	53	55	56
2000	57	59	59	56	53	51	50	50	51	53	54	55
2001	57	58	57	55	52	51	50	50	50	51	52	53
2002	55	57	58	54	51	50	50	50	50	51	51	52
2003	53	56	58	55	52	51	50	50	51	52	53	54

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Change in Average Simulated SJR at Friant Dam Deg. F
Alternative3 (2030) - No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					5	3	1	-1	-1	-1	0	1
1981	1	0	0	3	5	5	4	2	1	1	0	-1
1982	-3	-1	3	7	5	4	2	-1	-3	-3	-2	-1
1983	-2	-2	1	6	5	4	1	1	5	3	2	1
1984	0	-2	0	7	6	5	3	0	-1	-1	0	-1
1985	-3	-2	2	5	6	5	4	2	1	1	0	-1
1986	-3	-1	3	7	6	3	0	-1	-2	-3	0	0
1987	-1	-3	0	4	5	5	4	3	3	2	1	0
1988	-4	-5	2	6	5	3	2	1	0	0	-1	-3
1989	-6	-6	1	5	4	3	2	0	0	-1	-1	-3
1990	-6	-4	2	5	4	3	1	0	0	0	-1	-4
1991	-7	-6	1	4	3	4	2	0	-1	-1	-1	-2
1992	-3	-2	3	5	5	3	1	0	0	-1	-2	-3
1993	-7	-5	2	7	5	3	1	0	0	1	3	3
1994	2	1	2	5	5	4	2	1	1	0	0	-1
1995	-4	-2	3	6	5	3	0	-2	-2	1	1	0
1996	-1	-2	-1	6	8	6	3	2	2	1	1	1
1997	-1	-1	2	6	4	3	1	-2	-4	-5	-4	-4
1998	-5	-4	1	7	7	4	2	-1	-2	-3	-1	-1
1999	-1	-2	0	4	6	6	4	2	2	2	3	2
2000	0	-1	3	6	7	5	2	0	0	1	1	1
2001	0	1	3	5	5	5	3	1	0	0	-1	-1
2002	-4	-3	4	7	5	3	2	1	0	0	-1	-2
2003	-4	-4	2	7	5	3	2	0	0	0	0	0

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Percent Change in Average Simulated SJR at Friant Dam Deg. F
From No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					12%	7%	2%	-1%	-3%	-3%	1%	2%
1981	2%	-1%	1%	7%	11%	11%	7%	4%	2%	2%	1%	-1%
1982	-5%	-1%	6%	15%	12%	8%	4%	-2%	-5%	-5%	-3%	-2%
1983	-3%	-4%	2%	13%	11%	9%	2%	1%	11%	7%	3%	1%
1984	-1%	-4%	0%	15%	14%	12%	6%	0%	-1%	-1%	0%	-2%
1985	-5%	-3%	4%	11%	12%	11%	8%	4%	3%	2%	1%	-2%
1986	-6%	-2%	5%	14%	13%	6%	0%	-2%	-5%	-5%	-1%	-1%
1987	-2%	-5%	0%	7%	10%	11%	8%	7%	5%	4%	3%	0%
1988	-6%	-8%	3%	13%	11%	7%	4%	2%	1%	-1%	-3%	-6%
1989	-11%	-10%	2%	11%	9%	7%	3%	1%	0%	-1%	-3%	-6%
1990	-10%	-7%	4%	10%	9%	6%	2%	1%	0%	-1%	-3%	-7%
1991	-13%	-10%	3%	9%	7%	8%	4%	0%	-1%	-2%	-2%	-3%
1992	-5%	-4%	6%	11%	10%	6%	2%	0%	-1%	-2%	-3%	-6%
1993	-12%	-9%	4%	16%	12%	6%	1%	0%	1%	2%	6%	6%
1994	4%	2%	4%	10%	10%	9%	5%	3%	1%	1%	-1%	-3%
1995	-7%	-4%	5%	14%	11%	6%	-1%	-4%	-4%	2%	2%	0%
1996	-1%	-4%	-1%	12%	17%	13%	7%	3%	4%	3%	2%	2%
1997	-2%	-2%	4%	14%	8%	7%	2%	-3%	-7%	-9%	-8%	-7%
1998	-8%	-6%	2%	14%	15%	10%	4%	-1%	-4%	-5%	-2%	-1%
1999	-2%	-3%	0%	9%	14%	13%	8%	4%	3%	4%	5%	4%
2000	0%	-2%	5%	13%	15%	11%	5%	1%	0%	2%	2%	1%
2001	-1%	1%	6%	11%	11%	10%	6%	2%	1%	0%	-1%	-3%
2002	-6%	-5%	7%	16%	11%	7%	4%	2%	0%	0%	-2%	-3%
2003	-7%	-7%	4%	14%	10%	7%	3%	1%	0%	0%	0%	0%

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated SJR at Friant Dam Deg. F
No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					45	45	47	49	51	53	53	54
1981	55	57	55	50	47	46	47	49	50	51	52	54
1982	58	58	54	46	44	44	45	48	50	52	53	54
1983	56	58	53	46	45	45	48	49	48	50	51	52
1984	53	55	54	46	45	45	47	50	52	53	54	55
1985	58	58	53	47	46	46	47	49	50	50	52	54
1986	57	57	53	46	45	45	46	48	50	52	53	53
1987	55	58	55	49	47	47	47	48	48	49	50	52
1988	56	58	53	46	45	45	46	47	48	49	51	53
1989	58	59	54	47	46	46	47	48	49	50	52	54
1990	57	58	54	48	47	47	48	48	49	50	51	54
1991	58	58	53	48	47	46	47	50	52	53	54	56
1992	58	59	54	48	46	46	47	48	49	50	52	54
1993	59	59	54	46	44	45	46	48	50	52	52	53
1994	55	57	55	49	47	46	47	48	49	50	51	53
1995	57	57	52	46	44	45	47	49	51	53	54	55
1996	55	57	56	49	45	45	47	49	50	51	53	54
1997	57	58	54	45	45	45	47	51	54	56	57	58
1998	60	59	55	47	45	45	47	50	52	54	55	56
1999	57	58	55	47	45	45	47	49	50	51	52	54
2000	57	60	56	50	46	46	48	50	51	52	53	55
2001	57	58	54	49	47	46	47	49	50	51	53	55
2002	58	60	55	46	46	47	48	49	50	51	52	54
2003	58	60	56	48	47	47	49	50	51	52	53	54

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated SJR at Friant Dam Deg. F
Alternative4 (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					49	48	48	50	53	55	55	50
1981	49	49	50	51	51	51	50	51	52	54	54	51
1982	51	51	52	52	50	48	47	48	52	54	54	49
1983	49	49	51	50	49	49	49	50	54	54	54	50
1984	50	50	52	52	51	50	50	50	53	55	56	51
1985	51	51	52	51	50	50	50	50	51	52	52	51
1986	51	52	53	52	51	48	47	49	52	55	55	49
1987	48	49	49	50	50	51	50	50	50	51	52	51
1988	51	51	51	51	50	50	49	49	49	50	50	50
1989	51	51	51	52	51	50	49	49	49	50	51	51
1990	51	51	52	53	52	50	50	50	50	50	51	51
1991	51	51	51	52	51	51	50	50	52	53	54	53
1992	54	54	55	53	51	50	49	49	50	51	51	51
1993	51	51	52	53	50	48	48	49	53	54	55	51
1994	51	51	53	52	52	51	50	50	50	51	51	51
1995	51	51	52	51	49	48	47	48	53	57	56	49
1996	48	49	50	52	52	50	50	51	54	56	57	52
1997	51	51	52	50	48	48	48	50	54	55	56	50
1998	49	49	50	50	50	49	49	50	52	57	57	51
1999	50	50	51	51	51	51	50	51	53	55	55	52
2000	52	52	53	54	52	51	51	51	52	54	55	52
2001	52	52	52	53	52	51	51	50	51	51	52	52
2002	52	52	53	53	52	51	51	50	51	52	52	51
2003	51	52	52	53	52	52	51	51	52	53	54	53

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Change in Average Simulated SJR at Friant Dam Deg. F
Alternative4 (2030) - No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					5	3	1	1	2	3	2	-4
1981	-5	-7	-5	2	4	5	3	2	2	3	2	-3
1982	-7	-7	-1	6	5	4	2	0	1	2	1	-5
1983	-7	-9	-3	5	4	4	1	1	6	4	3	-1
1984	-3	-5	-2	6	6	5	3	0	2	2	2	-4
1985	-7	-7	-2	3	4	4	3	1	1	1	1	-3
1986	-6	-6	-1	6	6	3	1	1	2	3	2	-5
1987	-7	-9	-6	1	3	4	3	3	2	2	1	-1
1988	-5	-7	-2	5	5	4	3	2	1	1	0	-3
1989	-7	-8	-3	5	5	4	2	1	0	0	-1	-3
1990	-7	-7	-2	4	4	4	2	2	1	1	0	-3
1991	-8	-7	-1	4	4	4	3	0	0	0	0	-2
1992	-5	-5	1	5	5	4	2	1	1	1	0	-3
1993	-8	-8	-2	7	6	4	1	1	3	3	2	-3
1994	-4	-6	-2	4	5	4	3	2	1	1	0	-2
1995	-6	-6	-1	5	5	3	0	0	2	4	2	-6
1996	-7	-8	-6	3	7	5	3	2	4	4	4	-2
1997	-6	-7	-1	5	3	3	1	-1	0	-1	-1	-8
1998	-11	-10	-5	3	5	4	1	0	0	2	2	-5
1999	-7	-8	-3	3	6	5	3	2	2	4	2	-2
2000	-5	-8	-3	4	7	5	2	0	1	2	2	-3
2001	-5	-6	-2	4	5	5	3	2	0	0	0	-3
2002	-7	-8	-2	7	6	4	3	1	1	1	0	-3
2003	-6	-8	-4	4	5	4	3	1	1	1	1	-1

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Percent Change in Average Simulated SJR at Friant Dam Deg. F
From No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					10%	7%	3%	2%	4%	5%	5%	-7%
1981	-10%	-13%	-8%	3%	9%	10%	7%	4%	4%	6%	3%	-6%
1982	-12%	-12%	-2%	13%	12%	10%	5%	0%	3%	3%	2%	-9%
1983	-13%	-15%	-5%	11%	10%	9%	2%	2%	12%	8%	6%	-3%
1984	-5%	-8%	-3%	13%	13%	11%	6%	0%	3%	5%	4%	-8%
1985	-12%	-12%	-3%	7%	9%	9%	6%	3%	2%	3%	1%	-5%
1986	-10%	-10%	-2%	13%	13%	7%	2%	3%	5%	6%	4%	-8%
1987	-12%	-16%	-11%	2%	6%	9%	7%	6%	4%	3%	3%	-2%
1988	-9%	-12%	-4%	11%	11%	9%	6%	4%	3%	1%	-1%	-5%
1989	-12%	-14%	-5%	10%	11%	9%	5%	2%	1%	0%	-1%	-6%
1990	-11%	-12%	-5%	8%	9%	8%	5%	3%	2%	1%	-1%	-6%
1991	-13%	-12%	-3%	8%	8%	9%	5%	0%	0%	1%	1%	-4%
1992	-8%	-8%	3%	10%	11%	9%	5%	3%	2%	1%	-1%	-6%
1993	-13%	-14%	-4%	15%	13%	8%	3%	2%	6%	5%	5%	-5%
1994	-8%	-11%	-4%	7%	10%	9%	6%	4%	2%	2%	0%	-4%
1995	-10%	-10%	-1%	12%	11%	7%	0%	-1%	4%	7%	4%	-11%
1996	-13%	-15%	-10%	7%	15%	12%	6%	4%	8%	9%	7%	-4%
1997	-10%	-12%	-3%	11%	7%	6%	1%	-2%	0%	-2%	-2%	-15%
1998	-18%	-17%	-10%	6%	12%	8%	3%	0%	-1%	4%	4%	-9%
1999	-12%	-13%	-6%	7%	13%	11%	7%	3%	5%	8%	5%	-4%
2000	-9%	-13%	-6%	9%	14%	11%	5%	1%	2%	4%	3%	-5%
2001	-9%	-10%	-3%	8%	10%	11%	7%	3%	1%	0%	0%	-5%
2002	-11%	-13%	-3%	15%	13%	9%	6%	3%	1%	1%	0%	-5%
2003	-11%	-13%	-7%	9%	11%	9%	6%	3%	2%	2%	2%	-2%

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 52 Deg F Cold Water Pool Volume-Millerton Lake (TAF)
Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					411	358	281	247	93	4	2	2
1981	2	3	7	180	369	312	234	142	77	42	20	12
1982	8	5	18	342	403	400	395	333	131	13	6	5
1983	3	1	22	374	389	344	202	75	329	200	60	30
1984	16	10	15	265	388	346	242	104	59	30	14	9
1985	6	5	24	356	369	303	237	143	87	54	28	15
1986	10	6	49	294	353	355	360	273	89	17	11	8
1987	6	6	8	226	297	282	230	152	92	60	35	19
1988	13	10	39	231	231	193	185	142	91	59	34	19
1989	13	11	29	184	193	170	151	133	78	47	24	14
1990	10	8	25	210	227	176	168	134	80	50	26	15
1991	10	9	55	161	135	108	98	46	26	11	6	4
1992	3	2	28	218	240	188	173	138	85	51	26	14
1993	10	8	28	284	380	325	231	175	137	40	18	10
1994	8	6	11	256	359	279	212	146	88	55	30	17
1995	10	6	114	315	367	332	245	186	77	8	0	0
1996	0	1	3	106	284	339	247	146	75	37	17	11
1997	8	5	24	387	348	353	254	89	7	2	1	1
1998	1	1	7	175	392	319	312	128	20	2	0	0
1999	0	0	10	302	374	306	219	128	75	44	22	13
2000	9	7	6	83	222	269	218	108	56	27	13	9
2001	7	6	14	179	263	230	178	108	64	35	18	12
2002	9	8	13	211	257	194	171	135	79	45	22	13
2003	9	8	11	122	235	204	139	90	54	25	13	9

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 52 Deg F Cold Water Pool Volume-Millerton Lake (TAF)
Alternative1 (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					71	127	141	165	143	4	0	0
1981	0	0	0	7	157	82	129	143	118	10	2	1
1982	1	1	0	35	249	167	176	199	206	166	56	1
1983	1	0	0	267	298	239	208	181	0	0	0	0
1984	2	2	0	91	203	184	156	126	145	141	13	1
1985	1	0	0	109	298	182	135	146	155	54	13	4
1986	2	1	1	4	27	81	150	191	146	160	76	6
1987	2	1	0	125	146	86	130	156	130	47	14	6
1988	3	2	1	5	53	109	144	158	169	104	62	39
1989	19	8	4	6	125	109	131	151	147	81	50	28
1990	13	6	4	4	22	85	131	161	165	104	66	43
1991	22	9	4	10	41	77	100	92	53	19	8	4
1992	3	2	1	3	36	84	123	144	145	81	48	26
1993	12	5	3	1	30	91	141	157	179	111	7	1
1994	1	1	0	0	9	90	128	155	145	64	30	13
1995	6	3	2	20	60	108	145	176	162	1	0	0
1996	0	0	0	0	12	109	170	128	33	0	0	0
1997	0	0	0	110	225	230	244	158	138	132	4	1
1998	1	1	0	1	36	111	142	173	178	9	0	0
1999	0	0	0	188	206	135	140	146	126	4	0	0
2000	0	0	0	0	1	63	131	135	71	7	2	1
2001	1	1	0	0	5	63	119	149	87	33	13	6
2002	3	2	2	2	23	59	103	140	121	52	25	12
2003	6	3	3	2	14	56	105	125	65	17	6	3

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Change in Average Simulated 52 Deg F Cold Water Pool Volume-Millerton Lake (TAF)
Alternative1 (2005) - Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					-340	-231	-141	-82	50	0	-2	-2
1981	-2	-2	-7	-173	-211	-230	-105	0	41	-32	-18	-11
1982	-7	-5	-18	-307	-154	-233	-219	-133	75	152	49	-4
1983	-2	-1	-22	-107	-91	-105	6	105	-329	-200	-59	-29
1984	-14	-8	-15	-175	-184	-163	-87	22	86	111	-1	-8
1985	-6	-4	-24	-247	-71	-121	-102	3	68	0	-15	-11
1986	-8	-5	-49	-290	-326	-274	-210	-82	57	143	65	-2
1987	-5	-5	-8	-102	-151	-196	-100	4	39	-13	-20	-13
1988	-10	-9	-38	-226	-178	-84	-41	16	78	44	28	20
1989	7	-3	-25	-177	-68	-61	-21	18	69	34	26	14
1990	3	-3	-21	-206	-205	-91	-37	27	84	53	40	29
1991	11	0	-51	-151	-94	-31	2	45	27	8	2	0
1992	0	0	-27	-216	-205	-104	-50	7	60	30	23	12
1993	2	-3	-25	-283	-351	-234	-90	-19	42	71	-11	-9
1994	-7	-6	-11	-256	-350	-188	-84	9	57	9	0	-3
1995	-4	-3	-113	-296	-308	-224	-100	-10	86	-7	0	0
1996	0	-1	-3	-106	-272	-230	-77	-18	-42	-37	-17	-11
1997	-8	-5	-23	-277	-123	-123	-10	69	131	130	3	0
1998	0	0	-7	-174	-356	-208	-171	45	158	8	0	0
1999	0	0	-10	-114	-168	-171	-78	17	51	-40	-22	-13
2000	-9	-7	-6	-83	-221	-205	-87	27	14	-20	-11	-8
2001	-6	-6	-13	-179	-258	-167	-58	41	23	-2	-5	-6
2002	-5	-5	-11	-209	-233	-134	-68	5	42	7	4	-1
2003	-3	-4	-8	-119	-221	-148	-34	34	11	-8	-7	-6

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Percent Change in Average Simulated 52 Deg F Cold Water Pool Volume-Millerton Lake (TAF)
From Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					-83%	-64%	-50%	-33%	54%	-6%	-94%	-94%
1981	-93%	-92%	-98%	-96%	-57%	-74%	-45%	0%	54%	-77%	-92%	-91%
1982	-90%	-89%	-99%	-90%	-38%	-58%	-55%	-40%	58%	1134%	773%	-77%
1983	-76%	-67%	-99%	-29%	-23%	-31%	3%	139%	-100%	-100%	-100%	-99%
1984	-90%	-79%	-97%	-66%	-48%	-47%	-36%	21%	146%	375%	-8%	-85%
1985	-89%	-92%	-99%	-69%	-19%	-40%	-43%	2%	79%	1%	-54%	-71%
1986	-79%	-79%	-99%	-99%	-92%	-77%	-58%	-30%	64%	852%	615%	-22%
1987	-72%	-85%	-95%	-45%	-51%	-69%	-43%	3%	42%	-22%	-59%	-70%
1988	-78%	-83%	-96%	-98%	-77%	-44%	-22%	11%	86%	75%	81%	108%
1989	51%	-27%	-85%	-97%	-35%	-36%	-14%	13%	88%	73%	104%	97%
1990	30%	-33%	-84%	-98%	-90%	-52%	-22%	20%	105%	106%	151%	196%
1991	110%	-4%	-92%	-94%	-70%	-28%	2%	98%	101%	70%	28%	9%
1992	-2%	15%	-97%	-99%	-85%	-55%	-29%	5%	70%	58%	87%	85%
1993	24%	-33%	-89%	-100%	-92%	-72%	-39%	-11%	31%	179%	-60%	-86%
1994	-90%	-92%	-98%	-100%	-97%	-68%	-40%	6%	65%	16%	0%	-21%
1995	-37%	-45%	-99%	-94%	-84%	-68%	-41%	-5%	112%	-85%	-37%	-57%
1996	-69%	-80%	-96%	-100%	-96%	-68%	-31%	-12%	-56%	-99%	-99%	-99%
1997	-98%	-97%	-98%	-72%	-35%	-35%	-4%	78%	1963%	8573%	243%	-24%
1998	-19%	-39%	-95%	-99%	-91%	-65%	-55%	35%	802%	407%	1132%	1534%
1999	1534%	1533%	-99%	-38%	-45%	-56%	-36%	13%	68%	-90%	-98%	-98%
2000	-97%	-96%	-95%	-100%	-100%	-76%	-40%	25%	25%	-74%	-86%	-88%
2001	-90%	-91%	-97%	-100%	-98%	-73%	-33%	38%	36%	-7%	-30%	-52%
2002	-61%	-69%	-88%	-99%	-91%	-69%	-40%	4%	54%	16%	17%	-9%
2003	-37%	-56%	-76%	-98%	-94%	-73%	-24%	38%	21%	-31%	-55%	-69%

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 52 Deg F Cold Water Pool Volume-Millerton Lake (TAF)
Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					411	358	281	247	93	4	2	2
1981	2	3	7	180	369	312	234	142	77	42	20	12
1982	8	5	18	342	403	400	395	333	131	13	6	5
1983	3	1	22	374	389	344	202	75	329	200	60	30
1984	16	10	15	265	388	346	242	104	59	30	14	9
1985	6	5	24	356	369	303	237	143	87	54	28	15
1986	10	6	49	294	353	355	360	273	89	17	11	8
1987	6	6	8	226	297	282	230	152	92	60	35	19
1988	13	10	39	231	231	193	185	142	91	59	34	19
1989	13	11	29	184	193	170	151	133	78	47	24	14
1990	10	8	25	210	227	176	168	134	80	50	26	15
1991	10	9	55	161	135	108	98	46	26	11	6	4
1992	3	2	28	218	240	188	173	138	85	51	26	14
1993	10	8	28	284	380	325	231	175	137	40	18	10
1994	8	6	11	256	359	279	212	146	88	55	30	17
1995	10	6	114	315	367	332	245	186	77	8	0	0
1996	0	1	3	106	284	339	247	146	75	37	17	11
1997	8	5	24	387	348	353	254	89	7	2	1	1
1998	1	1	7	175	392	319	312	128	20	2	0	0
1999	0	0	10	302	374	306	219	128	75	44	22	13
2000	9	7	6	83	222	269	218	108	56	27	13	9
2001	7	6	14	179	263	230	178	108	64	35	18	12
2002	9	8	13	211	257	194	171	135	79	45	22	13
2003	9	8	11	122	235	204	139	90	54	25	13	9

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 52 Deg F Cold Water Pool Volume-Millerton Lake (TAF)
Alternative2 (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					66	125	142	165	162	11	0	0
1981	0	0	0	1	82	78	128	144	127	23	3	1
1982	1	1	0	29	238	164	173	198	203	168	61	2
1983	1	1	0	266	297	238	209	181	0	0	0	0
1984	2	2	0	93	206	184	155	125	145	143	14	1
1985	0	0	0	102	294	181	136	145	156	60	14	4
1986	2	1	0	3	28	79	148	190	135	157	58	2
1987	1	0	0	96	116	76	129	154	131	49	15	7
1988	3	2	1	5	51	107	144	158	170	105	62	40
1989	20	8	4	6	134	111	131	150	146	81	50	28
1990	13	6	4	4	22	88	133	162	164	103	66	43
1991	22	8	4	10	41	78	100	91	53	18	7	4
1992	3	2	1	3	41	85	124	144	144	81	48	26
1993	12	5	3	1	30	92	141	155	176	112	4	1
1994	1	0	0	0	11	93	129	155	146	65	32	14
1995	7	3	2	20	61	108	145	176	162	1	0	0
1996	0	0	0	0	13	108	159	127	35	0	0	0
1997	0	0	0	101	222	228	241	158	137	132	10	1
1998	1	0	0	1	38	111	141	173	182	15	0	0
1999	0	0	0	200	209	137	141	147	133	8	1	0
2000	0	0	0	0	1	57	128	135	79	9	2	1
2001	1	1	0	0	4	60	118	150	90	34	13	6
2002	3	2	1	2	23	61	105	140	122	52	25	12
2003	6	3	3	2	14	56	104	124	63	15	5	2

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Change in Average Simulated 52 Deg F Cold Water Pool Volume-Millerton Lake (TAF)
Alternative2 (2005) - Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					-345	-234	-139	-82	70	7	-2	-2
1981	-2	-2	-7	-179	-287	-234	-106	2	51	-19	-17	-10
1982	-7	-5	-18	-313	-165	-236	-222	-135	72	154	55	-3
1983	-2	-1	-22	-109	-92	-105	7	105	-329	-200	-59	-29
1984	-14	-7	-15	-172	-182	-162	-87	21	86	113	0	-9
1985	-6	-5	-24	-254	-75	-122	-101	2	69	6	-14	-11
1986	-8	-5	-49	-291	-325	-276	-212	-83	46	140	48	-6
1987	-6	-5	-8	-130	-181	-206	-102	2	39	-12	-19	-12
1988	-10	-9	-38	-226	-180	-86	-42	17	79	46	28	21
1989	7	-3	-25	-178	-59	-59	-21	17	68	34	25	14
1990	3	-3	-21	-206	-205	-88	-35	28	84	53	40	28
1991	11	0	-51	-151	-93	-30	2	45	26	7	1	0
1992	0	0	-27	-215	-200	-102	-49	6	59	30	22	12
1993	2	-3	-25	-283	-350	-233	-90	-20	40	72	-14	-9
1994	-7	-6	-11	-256	-348	-186	-83	9	57	10	1	-3
1995	-4	-3	-112	-295	-307	-224	-101	-10	85	-7	0	0
1996	0	-1	-3	-106	-272	-231	-88	-19	-40	-37	-17	-11
1997	-8	-5	-23	-285	-126	-125	-13	69	130	130	8	0
1998	0	0	-7	-174	-354	-208	-171	45	163	13	0	0
1999	0	0	-10	-102	-165	-169	-77	19	58	-36	-22	-12
2000	-9	-7	-6	-83	-222	-211	-90	27	22	-18	-11	-8
2001	-6	-6	-13	-179	-259	-170	-60	42	26	-1	-5	-6
2002	-5	-5	-11	-210	-234	-133	-66	6	43	7	4	-1
2003	-3	-4	-8	-119	-221	-148	-35	33	10	-10	-8	-6

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Percent Change in Average Simulated 52 Deg F Cold Water Pool Volume-Millerton Lake (TAF)
From Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					-84%	-65%	-49%	-33%	75%	174%	-94%	-92%
1981	-87%	-91%	-98%	-99%	-78%	-75%	-45%	1%	66%	-45%	-87%	-89%
1982	-89%	-89%	-99%	-92%	-41%	-59%	-56%	-41%	55%	1147%	859%	-62%
1983	-69%	-58%	-99%	-29%	-24%	-31%	3%	140%	-100%	-100%	-100%	-99%
1984	-88%	-75%	-97%	-65%	-47%	-47%	-36%	21%	145%	383%	-2%	-93%
1985	-94%	-95%	-99%	-71%	-20%	-40%	-43%	1%	79%	10%	-51%	-71%
1986	-82%	-85%	-99%	-99%	-92%	-78%	-59%	-30%	52%	833%	448%	-76%
1987	-86%	-93%	-97%	-57%	-61%	-73%	-44%	1%	42%	-19%	-56%	-65%
1988	-74%	-82%	-96%	-98%	-78%	-44%	-23%	12%	86%	77%	82%	110%
1989	53%	-26%	-85%	-97%	-31%	-35%	-14%	13%	87%	73%	104%	97%
1990	30%	-32%	-84%	-98%	-90%	-50%	-21%	21%	104%	105%	150%	194%
1991	108%	-5%	-92%	-94%	-69%	-28%	2%	96%	98%	65%	23%	6%
1992	-4%	13%	-97%	-99%	-83%	-54%	-28%	5%	70%	58%	87%	85%
1993	24%	-34%	-89%	-100%	-92%	-72%	-39%	-11%	29%	182%	-76%	-89%
1994	-93%	-94%	-98%	-100%	-97%	-67%	-39%	6%	65%	17%	4%	-16%
1995	-34%	-43%	-98%	-94%	-83%	-67%	-41%	-6%	112%	-89%	-37%	-57%
1996	-69%	-80%	-96%	-100%	-96%	-68%	-36%	-13%	-53%	-99%	-99%	-99%
1997	-98%	-97%	-98%	-74%	-36%	-36%	-5%	78%	1952%	8565%	678%	-7%
1998	-34%	-53%	-96%	-99%	-90%	-65%	-55%	35%	825%	703%	1130%	1534%
1999	1534%	1591%	-99%	-34%	-44%	-55%	-35%	15%	77%	-82%	-97%	-97%
2000	-96%	-97%	-96%	-100%	-100%	-79%	-41%	25%	39%	-68%	-85%	-87%
2001	-89%	-91%	-97%	-100%	-99%	-74%	-34%	39%	41%	-4%	-29%	-52%
2002	-62%	-71%	-89%	-99%	-91%	-69%	-39%	4%	55%	16%	18%	-8%
2003	-36%	-56%	-75%	-98%	-94%	-73%	-25%	37%	18%	-39%	-60%	-72%

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 52 Deg F Cold Water Pool Volume-Millerton Lake (TAF)
Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					411	358	281	247	93	4	2	2
1981	2	3	7	180	369	312	234	142	77	42	20	12
1982	8	5	18	342	403	400	395	333	131	13	6	5
1983	3	1	22	374	389	344	202	75	329	200	60	30
1984	16	10	15	265	388	346	242	104	59	30	14	9
1985	6	5	24	356	369	303	237	143	87	54	28	15
1986	10	6	49	294	353	355	360	273	89	17	11	8
1987	6	6	8	226	297	282	230	152	92	60	35	19
1988	13	10	39	231	231	193	185	142	91	59	34	19
1989	13	11	29	184	193	170	151	133	78	47	24	14
1990	10	8	25	210	227	176	168	134	80	50	26	15
1991	10	9	55	161	135	108	98	46	26	11	6	4
1992	3	2	28	218	240	188	173	138	85	51	26	14
1993	10	8	28	284	380	325	231	175	137	40	18	10
1994	8	6	11	256	359	279	212	146	88	55	30	17
1995	10	6	114	315	367	332	245	186	77	8	0	0
1996	0	1	3	106	284	339	247	146	75	37	17	11
1997	8	5	24	387	348	353	254	89	7	2	1	1
1998	1	1	7	175	392	319	312	128	20	2	0	0
1999	0	0	10	302	374	306	219	128	75	44	22	13
2000	9	7	6	83	222	269	218	108	56	27	13	9
2001	7	6	14	179	263	230	178	108	64	35	18	12
2002	9	8	13	211	257	194	171	135	79	45	22	13
2003	9	8	11	122	235	204	139	90	54	25	13	9

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 52 Deg F Cold Water Pool Volume-Millerton Lake (TAF)
Alternative3 (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					58	112	144	167	165	105	2	0
1981	0	0	0	0	7	73	125	143	130	37	6	3
1982	2	1	0	50	250	167	176	201	211	150	27	5
1983	2	1	1	275	299	239	208	182	0	0	0	0
1984	2	2	0	96	206	184	134	136	174	60	0	0
1985	0	0	0	58	291	180	139	147	138	43	14	6
1986	3	2	1	7	34	78	150	191	204	121	19	3
1987	2	1	1	0	1	64	125	153	135	55	23	12
1988	6	4	3	9	66	120	149	161	164	99	62	40
1989	20	8	4	10	169	121	133	152	148	83	52	30
1990	14	6	3	5	28	89	134	162	163	103	67	45
1991	24	10	5	17	43	86	107	83	42	14	6	3
1992	2	2	1	6	77	88	125	145	142	81	50	29
1993	13	5	3	5	36	92	146	159	150	12	0	0
1994	0	0	0	0	30	94	131	158	149	73	40	19
1995	9	4	2	20	61	107	147	177	175	20	0	0
1996	0	0	0	0	10	105	148	134	37	0	0	0
1997	0	0	0	81	206	218	199	134	132	108	1	1
1998	0	0	0	1	38	111	144	174	180	69	1	0
1999	0	0	0	176	194	133	146	147	57	0	0	0
2000	0	0	0	0	9	63	128	133	54	6	2	1
2001	1	1	1	0	7	65	120	147	81	33	13	6
2002	4	3	2	3	28	62	106	139	111	50	25	11
2003	6	3	3	2	20	59	108	123	61	18	7	4

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Change in Average Simulated 52 Deg F Cold Water Pool Volume-Millerton Lake (TAF)
Alternative3 (2005) - Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					-353	-246	-137	-80	72	101	0	-2
1981	-2	-2	-7	-180	-362	-239	-110	1	53	-5	-13	-9
1982	-6	-4	-18	-292	-153	-232	-219	-132	81	136	21	0
1983	-1	0	-21	-99	-90	-104	5	107	-329	-200	-59	-29
1984	-14	-7	-15	-169	-181	-163	-108	32	115	31	-14	-9
1985	-6	-5	-24	-298	-78	-123	-99	4	51	-11	-14	-9
1986	-7	-4	-48	-287	-319	-277	-210	-82	115	104	8	-5
1987	-4	-4	-7	-226	-296	-218	-105	1	44	-5	-11	-8
1988	-7	-7	-37	-222	-165	-74	-37	19	73	40	28	21
1989	7	-3	-25	-174	-24	-49	-18	19	70	37	28	16
1990	4	-3	-21	-205	-199	-86	-34	28	83	52	41	31
1991	13	2	-50	-144	-92	-22	9	37	16	3	0	0
1992	0	0	-27	-212	-163	-99	-48	7	57	30	25	14
1993	3	-2	-25	-279	-344	-233	-85	-16	13	-28	-18	-10
1994	-8	-6	-11	-256	-329	-185	-81	12	61	17	10	2
1995	-2	-2	-112	-295	-307	-225	-98	-9	98	12	0	0
1996	0	-1	-3	-106	-275	-234	-99	-12	-38	-37	-17	-11
1997	-8	-5	-23	-306	-142	-135	-55	46	125	107	0	0
1998	0	0	-7	-174	-354	-208	-168	46	161	67	1	0
1999	0	0	-10	-126	-180	-174	-73	19	-18	-44	-22	-13
2000	-9	-7	-6	-83	-214	-206	-90	25	-2	-21	-11	-8
2001	-6	-5	-13	-179	-256	-165	-57	40	16	-3	-5	-6
2002	-5	-5	-11	-208	-228	-131	-65	5	33	6	3	-1
2003	-3	-4	-9	-120	-215	-145	-31	32	8	-7	-6	-5

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Percent Change in Average Simulated 52 Deg F Cold Water Pool Volume-Millerton Lake (TAF)
From Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					-86%	-69%	-49%	-32%	78%	2622%	-12%	-86%
1981	-90%	-91%	-98%	-100%	-98%	-76%	-47%	1%	70%	-12%	-69%	-78%
1982	-78%	-75%	-98%	-85%	-38%	-58%	-55%	-40%	62%	1014%	330%	5%
1983	-26%	-4%	-97%	-26%	-23%	-30%	3%	141%	-100%	-100%	-100%	-99%
1984	-87%	-75%	-97%	-64%	-47%	-47%	-45%	31%	194%	105%	-97%	-97%
1985	-95%	-95%	-99%	-84%	-21%	-41%	-42%	3%	59%	-20%	-51%	-61%
1986	-67%	-65%	-98%	-98%	-90%	-78%	-58%	-30%	130%	621%	77%	-62%
1987	-69%	-77%	-89%	-100%	-100%	-77%	-46%	1%	47%	-9%	-32%	-40%
1988	-52%	-65%	-93%	-96%	-72%	-38%	-20%	13%	80%	67%	81%	109%
1989	53%	-25%	-86%	-94%	-13%	-29%	-12%	14%	89%	78%	113%	111%
1990	39%	-31%	-86%	-97%	-88%	-49%	-20%	21%	103%	104%	155%	210%
1991	128%	17%	-91%	-89%	-68%	-20%	9%	79%	60%	26%	-2%	-9%
1992	-16%	-1%	-97%	-97%	-68%	-53%	-28%	5%	67%	59%	95%	100%
1993	33%	-31%	-91%	-98%	-90%	-72%	-37%	-9%	9%	-70%	-99%	-98%
1994	-98%	-98%	-99%	-100%	-92%	-66%	-38%	8%	69%	31%	32%	13%
1995	-15%	-33%	-98%	-94%	-83%	-68%	-40%	-5%	128%	154%	-36%	-57%
1996	-69%	-81%	-96%	-100%	-97%	-69%	-40%	-8%	-50%	-99%	-99%	-99%
1997	-98%	-97%	-98%	-79%	-41%	-38%	-22%	51%	1876%	7041%	-5%	-48%
1998	-48%	-50%	-95%	-99%	-90%	-65%	-54%	36%	815%	3586%	5090%	3063%
1999	2247%	1905%	-99%	-42%	-48%	-57%	-33%	14%	-25%	-100%	-99%	-99%
2000	-98%	-97%	-95%	-100%	-96%	-77%	-41%	23%	-4%	-79%	-85%	-85%
2001	-84%	-83%	-93%	-100%	-97%	-72%	-32%	37%	25%	-7%	-27%	-47%
2002	-56%	-64%	-86%	-99%	-89%	-68%	-38%	4%	41%	13%	16%	-11%
2003	-38%	-57%	-77%	-98%	-92%	-71%	-22%	36%	14%	-27%	-46%	-59%

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 52 Deg F Cold Water Pool Volume-Millerton Lake (TAF)
Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					411	358	281	247	93	4	2	2
1981	2	3	7	180	369	312	234	142	77	42	20	12
1982	8	5	18	342	403	400	395	333	131	13	6	5
1983	3	1	22	374	389	344	202	75	329	200	60	30
1984	16	10	15	265	388	346	242	104	59	30	14	9
1985	6	5	24	356	369	303	237	143	87	54	28	15
1986	10	6	49	294	353	355	360	273	89	17	11	8
1987	6	6	8	226	297	282	230	152	92	60	35	19
1988	13	10	39	231	231	193	185	142	91	59	34	19
1989	13	11	29	184	193	170	151	133	78	47	24	14
1990	10	8	25	210	227	176	168	134	80	50	26	15
1991	10	9	55	161	135	108	98	46	26	11	6	4
1992	3	2	28	218	240	188	173	138	85	51	26	14
1993	10	8	28	284	380	325	231	175	137	40	18	10
1994	8	6	11	256	359	279	212	146	88	55	30	17
1995	10	6	114	315	367	332	245	186	77	8	0	0
1996	0	1	3	106	284	339	247	146	75	37	17	11
1997	8	5	24	387	348	353	254	89	7	2	1	1
1998	1	1	7	175	392	319	312	128	20	2	0	0
1999	0	0	10	302	374	306	219	128	75	44	22	13
2000	9	7	6	83	222	269	218	108	56	27	13	9
2001	7	6	14	179	263	230	178	108	64	35	18	12
2002	9	8	13	211	257	194	171	135	79	45	22	13
2003	9	8	11	122	235	204	139	90	54	25	13	9

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 52 Deg F Cold Water Pool Volume-Millerton Lake (TAF)
Alternative4 (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					319	173	147	135	21	0	1	138
1981	163	95	103	343	283	162	142	85	15	1	1	85
1982	101	58	21	240	318	227	193	176	84	0	5	146
1983	170	111	12	364	314	254	214	166	0	0	1	113
1984	150	129	23	229	269	216	164	80	10	1	1	133
1985	141	73	89	345	318	213	152	110	44	12	11	96
1986	67	35	12	15	53	109	170	163	43	0	1	136
1987	178	135	119	345	261	189	174	127	66	36	23	101
1988	74	48	30	282	287	213	196	174	149	79	59	92
1989	71	45	28	145	308	167	149	140	91	50	41	86
1990	63	38	23	15	170	198	176	175	123	69	46	75
1991	62	39	23	219	203	107	105	68	22	6	3	2
1992	2	1	1	71	153	100	132	114	78	59	34	82
1993	68	43	23	5	50	109	144	128	100	2	0	116
1994	151	96	102	334	322	182	157	133	70	56	56	104
1995	82	52	33	278	218	179	163	129	8	0	1	118
1996	118	58	32	15	48	131	181	92	1	0	0	80
1997	125	53	20	231	258	242	245	107	1	0	0	113
1998	149	136	96	253	247	174	173	88	3	0	0	110
1999	112	54	96	344	293	170	159	101	9	1	0	77
2000	58	25	8	3	11	70	134	88	10	1	1	55
2001	42	18	8	2	6	75	133	114	53	19	3	21
2002	16	10	5	3	23	64	103	95	47	17	9	82
2003	56	33	19	14	16	57	104	79	25	7	1	1

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Change in Average Simulated 52 Deg F Cold Water Pool Volume-Millerton Lake (TAF)
Alternative4 (2005) - Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					-92	-186	-134	-111	-72	-4	-1	136
1981	161	93	96	163	-86	-150	-93	-57	-61	-41	-19	73
1982	93	53	3	-102	-85	-172	-202	-156	-47	-13	-2	142
1983	167	109	-10	-10	-75	-89	12	90	-329	-200	-59	83
1984	135	119	8	-37	-119	-130	-78	-24	-49	-29	-14	124
1985	135	68	65	-11	-51	-90	-85	-34	-43	-41	-17	81
1986	57	29	-38	-279	-300	-246	-189	-110	-46	-17	-9	128
1987	171	130	110	119	-36	-93	-56	-25	-26	-25	-11	82
1988	61	38	-9	51	55	20	11	32	58	20	25	74
1989	58	35	-1	-38	114	-3	-2	7	13	4	16	71
1990	53	30	-2	-196	-57	22	8	41	42	19	19	60
1991	52	30	-32	58	69	-1	7	22	-4	-5	-3	-2
1992	-1	0	-27	-148	-88	-87	-41	-23	-7	8	8	68
1993	58	35	-4	-279	-330	-216	-87	-47	-37	-38	-18	105
1994	143	89	91	78	-37	-97	-55	-13	-18	1	26	87
1995	71	46	-81	-37	-150	-153	-82	-57	-69	-8	1	118
1996	117	57	29	-91	-237	-208	-66	-54	-74	-37	-17	70
1997	117	47	-4	-156	-90	-111	-9	19	-6	-1	-1	112
1998	148	135	89	77	-146	-145	-139	-40	-17	-2	0	110
1999	112	54	86	41	-81	-136	-60	-27	-67	-43	-22	65
2000	49	17	2	-80	-211	-198	-84	-20	-46	-26	-12	46
2001	35	11	-6	-177	-257	-155	-44	7	-11	-16	-15	9
2002	8	2	-8	-208	-233	-130	-68	-39	-32	-28	-13	70
2003	47	25	8	-108	-219	-147	-34	-12	-28	-19	-12	-8

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Percent Change in Average Simulated 52 Deg F Cold Water Pool Volume-Millerton Lake (TAF)
From Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					-22%	-52%	-48%	-45%	-78%	-96%	-55%	5721%
1981	6683%	3513%	1302%	91%	-23%	-48%	-40%	-40%	-80%	-99%	-97%	620%
1982	1116%	1018%	17%	-30%	-21%	-43%	-51%	-47%	-36%	-98%	-24%	3077%
1983	5666%	7681%	-46%	-3%	-19%	-26%	6%	120%	-100%	-100%	-98%	281%
1984	850%	1230%	54%	-14%	-31%	-38%	-32%	-23%	-83%	-97%	-94%	1356%
1985	2110%	1423%	273%	-3%	-14%	-30%	-36%	-23%	-49%	-77%	-62%	525%
1986	557%	492%	-76%	-95%	-85%	-69%	-53%	-40%	-51%	-99%	-88%	1633%
1987	2668%	2217%	1311%	52%	-12%	-33%	-24%	-17%	-28%	-41%	-33%	428%
1988	468%	360%	-24%	22%	24%	10%	6%	23%	64%	34%	72%	388%
1989	453%	329%	-3%	-21%	59%	-2%	-2%	6%	17%	7%	67%	500%
1990	532%	356%	-7%	-93%	-25%	12%	5%	31%	53%	37%	73%	412%
1991	499%	338%	-59%	36%	51%	-1%	7%	47%	-16%	-46%	-55%	-53%
1992	-44%	-22%	-97%	-68%	-37%	-46%	-24%	-17%	-8%	15%	33%	478%
1993	600%	439%	-16%	-98%	-87%	-66%	-38%	-27%	-27%	-95%	-97%	1005%
1994	1862%	1416%	825%	31%	-10%	-35%	-26%	-9%	-20%	1%	85%	521%
1995	695%	779%	-71%	-12%	-41%	-46%	-33%	-30%	-90%	-98%	561%	40017%
1996	29032%	8547%	923%	-86%	-83%	-61%	-27%	-37%	-99%	-99%	-99%	640%
1997	1407%	866%	-15%	-40%	-26%	-31%	-4%	21%	-84%	-88%	-80%	10951%
1998	18279%	15974%	1211%	44%	-37%	-46%	-45%	-31%	-86%	-93%	1187%	1427510%
1999	1459777%	700755%	845%	14%	-22%	-44%	-27%	-21%	-89%	-97%	-99%	504%
2000	525%	236%	30%	-96%	-95%	-74%	-39%	-19%	-82%	-94%	-93%	512%
2001	496%	185%	-45%	-99%	-98%	-67%	-25%	6%	-17%	-46%	-83%	75%
2002	87%	29%	-60%	-99%	-91%	-67%	-40%	-29%	-41%	-62%	-59%	547%
2003	520%	334%	75%	-89%	-93%	-72%	-25%	-13%	-53%	-74%	-92%	-91%

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 52 Deg F Cold Water Pool Volume-Millerton Lake (TAF)
Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					411	358	281	247	93	4	2	2
1981	2	3	7	180	369	312	234	142	77	42	20	12
1982	8	5	18	342	403	400	395	333	131	13	6	5
1983	3	1	22	374	389	344	202	75	329	200	60	30
1984	16	10	15	265	388	346	242	104	59	30	14	9
1985	6	5	24	356	369	303	237	143	87	54	28	15
1986	10	6	49	294	353	355	360	273	89	17	11	8
1987	6	6	8	226	297	282	230	152	92	60	35	19
1988	13	10	39	231	231	193	185	142	91	59	34	19
1989	13	11	29	184	193	170	151	133	78	47	24	14
1990	10	8	25	210	227	176	168	134	80	50	26	15
1991	10	9	55	161	135	108	98	46	26	11	6	4
1992	3	2	28	218	240	188	173	138	85	51	26	14
1993	10	8	28	284	380	325	231	175	137	40	18	10
1994	8	6	11	256	359	279	212	146	88	55	30	17
1995	10	6	114	315	367	332	245	186	77	8	0	0
1996	0	1	3	106	284	339	247	146	75	37	17	11
1997	8	5	24	387	348	353	254	89	7	2	1	1
1998	1	1	7	175	392	319	312	128	20	2	0	0
1999	0	0	10	302	374	306	219	128	75	44	22	13
2000	9	7	6	83	222	269	218	108	56	27	13	9
2001	7	6	14	179	263	230	178	108	64	35	18	12
2002	9	8	13	211	257	194	171	135	79	45	22	13
2003	9	8	11	122	235	204	139	90	54	25	13	9

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 52 Deg F Cold Water Pool Volume-Millerton Lake (TAF)
Alternative5 (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					85	117	145	166	166	127	11	1
1981	1	0	0	0	6	80	132	136	54	2	1	0
1982	0	0	0	273	327	251	207	204	199	111	9	2
1983	1	1	0	231	281	235	207	178	0	0	1	2
1984	4	4	0	109	210	180	131	133	159	62	1	0
1985	0	0	0	63	289	173	138	141	71	9	2	1
1986	1	1	1	57	71	126	164	188	194	123	21	5
1987	2	2	1	0	4	86	129	145	81	21	5	2
1988	1	1	2	216	196	138	118	98	61	35	15	5
1989	2	2	15	120	124	104	89	85	44	20	8	3
1990	2	1	14	146	155	102	76	61	35	17	7	3
1991	2	1	35	97	71	46	37	3	0	0	0	0
1992	0	0	7	142	156	113	100	79	43	19	8	3
1993	1	1	14	210	310	254	169	137	78	0	0	0
1994	0	0	0	1	38	97	135	154	90	25	6	2
1995	1	1	75	306	271	219	172	185	167	105	6	0
1996	0	0	0	0	7	100	144	138	33	0	0	0
1997	0	0	0	59	202	241	201	126	128	102	1	0
1998	0	0	0	1	38	111	143	168	172	61	0	0
1999	0	0	0	175	187	130	136	137	84	0	0	0
2000	0	0	0	0	0	52	123	116	31	1	1	0
2001	0	0	0	0	4	68	128	116	28	4	1	1
2002	1	0	0	44	95	95	80	77	30	10	4	2
2003	1	1	0	30	89	98	73	43	2	1	0	0

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Change in Average Simulated 52 Deg F Cold Water Pool Volume-Millerton Lake (TAF)
Alternative5 (2005) - Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					-326	-242	-137	-81	74	123	8	-2
1981	-2	-2	-7	-180	-362	-232	-102	-7	-22	-40	-19	-11
1982	-8	-5	-18	-69	-76	-148	-188	-128	68	97	3	-2
1983	-2	0	-22	-144	-108	-108	5	103	-329	-200	-58	-28
1984	-12	-6	-15	-156	-178	-166	-112	30	100	33	-13	-9
1985	-6	-5	-24	-293	-80	-130	-99	-2	-16	-45	-25	-14
1986	-9	-5	-48	-237	-282	-230	-195	-85	105	107	10	-2
1987	-4	-4	-7	-226	-293	-196	-101	-7	-11	-39	-29	-17
1988	-12	-9	-37	-15	-35	-55	-67	-44	-30	-25	-20	-14
1989	-10	-9	-14	-64	-69	-66	-62	-48	-34	-27	-17	-11
1990	-8	-7	-11	-65	-72	-74	-92	-73	-46	-34	-19	-12
1991	-9	-7	-20	-64	-64	-63	-61	-43	-26	-11	-6	-4
1992	-3	-2	-21	-76	-84	-75	-73	-59	-42	-32	-18	-12
1993	-8	-7	-13	-74	-70	-71	-62	-39	-59	-39	-18	-10
1994	-7	-6	-11	-255	-321	-182	-77	8	2	-30	-25	-15
1995	-9	-5	-39	-9	-96	-113	-73	-1	90	97	5	0
1996	0	0	-3	-106	-278	-240	-103	-7	-42	-37	-17	-11
1997	-8	-5	-23	-328	-146	-112	-53	38	122	100	-1	-1
1998	0	0	-7	-174	-354	-208	-170	41	152	59	0	0
1999	0	0	-10	-127	-187	-176	-83	8	9	-44	-22	-13
2000	-9	-7	-6	-83	-222	-216	-95	8	-25	-26	-13	-8
2001	-7	-6	-13	-179	-259	-162	-50	9	-36	-31	-17	-11
2002	-8	-7	-13	-167	-161	-99	-91	-58	-48	-34	-18	-11
2003	-8	-7	-11	-92	-146	-106	-66	-47	-52	-25	-12	-8

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Percent Change in Average Simulated 52 Deg F Cold Water Pool Volume-Millerton Lake (TAF)
From Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					-79%	-67%	-49%	-33%	80%	3199%	377%	-67%
1981	-78%	-82%	-97%	-100%	-98%	-74%	-43%	-5%	-29%	-94%	-96%	-97%
1982	-96%	-96%	-98%	-20%	-19%	-37%	-47%	-39%	52%	725%	45%	-52%
1983	-53%	-33%	-98%	-38%	-28%	-32%	3%	136%	-100%	-100%	-98%	-95%
1984	-74%	-64%	-97%	-59%	-46%	-48%	-46%	29%	169%	110%	-93%	-97%
1985	-96%	-96%	-99%	-82%	-22%	-43%	-42%	-1%	-18%	-83%	-91%	-92%
1986	-90%	-90%	-98%	-81%	-80%	-65%	-54%	-31%	118%	634%	95%	-31%
1987	-63%	-72%	-86%	-100%	-99%	-69%	-44%	-4%	-12%	-64%	-85%	-89%
1988	-90%	-89%	-95%	-7%	-15%	-29%	-36%	-31%	-33%	-42%	-57%	-73%
1989	-82%	-83%	-48%	-35%	-36%	-39%	-41%	-36%	-43%	-57%	-68%	-80%
1990	-85%	-86%	-45%	-31%	-32%	-42%	-55%	-54%	-57%	-67%	-72%	-81%
1991	-84%	-83%	-37%	-40%	-48%	-58%	-62%	-93%	-99%	-99%	-98%	-96%
1992	-95%	-92%	-75%	-35%	-35%	-40%	-42%	-43%	-50%	-62%	-71%	-81%
1993	-85%	-87%	-49%	-26%	-18%	-22%	-27%	-22%	-43%	-99%	-99%	-98%
1994	-97%	-96%	-98%	-100%	-89%	-65%	-36%	5%	2%	-55%	-82%	-88%
1995	-89%	-91%	-35%	-3%	-26%	-34%	-30%	-1%	118%	1246%	2725%	12%
1996	-37%	-65%	-94%	-100%	-98%	-71%	-42%	-5%	-56%	-99%	-99%	-99%
1997	-98%	-97%	-98%	-85%	-42%	-32%	-21%	43%	1822%	6585%	-56%	-62%
1998	-59%	-59%	-96%	-99%	-90%	-65%	-54%	32%	770%	3176%	2971%	2727%
1999	2233%	1852%	-99%	-42%	-50%	-58%	-38%	7%	12%	-99%	-99%	-98%
2000	-97%	-96%	-95%	-100%	-100%	-81%	-44%	7%	-44%	-96%	-96%	-95%
2001	-94%	-93%	-97%	-100%	-98%	-71%	-28%	8%	-56%	-88%	-92%	-94%
2002	-94%	-94%	-98%	-79%	-63%	-51%	-53%	-43%	-61%	-76%	-82%	-84%
2003	-84%	-88%	-96%	-76%	-62%	-52%	-48%	-53%	-97%	-97%	-98%	-98%

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 52 Deg F Cold Water Pool Volume-Millerton Lake (TAF)
No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					411	364	286	220	69	7	4	4
1981	4	4	8	166	362	312	231	139	74	40	19	11
1982	8	5	17	325	379	395	389	325	126	11	5	4
1983	3	1	22	373	387	343	185	76	327	196	59	29
1984	16	10	15	260	378	338	204	73	31	13	8	6
1985	4	3	27	329	333	276	209	132	82	50	26	14
1986	9	5	49	271	327	353	329	251	97	18	11	8
1987	7	6	9	215	269	256	215	149	92	61	36	20
1988	13	11	44	186	188	159	153	120	83	54	30	17
1989	12	10	28	165	169	152	144	132	79	48	25	15
1990	10	9	24	192	203	156	152	126	78	51	28	15
1991	11	9	53	145	117	100	89	43	26	11	6	4
1992	3	2	27	201	217	171	160	128	80	47	23	13
1993	9	8	25	267	372	354	231	157	119	38	17	10
1994	7	6	11	250	313	246	192	137	86	54	30	17
1995	11	7	98	346	383	355	233	159	106	9	0	0
1996	1	1	3	103	272	346	235	117	68	28	13	9
1997	7	5	24	388	346	348	227	61	2	0	0	0
1998	0	0	8	175	386	343	309	127	26	3	0	0
1999	0	0	10	283	344	284	187	105	63	34	17	11
2000	8	6	6	78	210	255	187	94	44	19	10	7
2001	6	5	13	168	236	209	162	96	57	30	16	11
2002	8	7	13	194	229	176	151	122	74	41	20	12
2003	9	7	11	114	215	186	123	78	52	25	13	9

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 52 Deg F Cold Water Pool Volume-Millerton Lake (TAF)
Alternative1 (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					57	113	145	167	171	126	5	1
1981	0	0	0	0	8	75	124	144	132	43	7	2
1982	1	1	0	41	244	165	176	201	210	154	29	2
1983	1	1	1	267	298	239	208	183	0	0	0	0
1984	2	2	0	94	206	184	135	136	171	92	2	0
1985	0	0	0	55	293	178	134	144	141	47	15	6
1986	3	2	1	7	33	79	151	192	204	118	14	2
1987	1	1	0	0	0	61	123	152	130	52	23	11
1988	6	4	3	9	66	119	148	161	163	98	61	39
1989	19	8	4	10	171	122	133	152	148	83	52	30
1990	14	6	3	5	28	90	135	162	163	103	67	45
1991	24	10	5	18	43	86	106	83	42	14	6	3
1992	2	2	1	6	77	88	125	145	143	82	51	29
1993	13	6	3	5	36	93	146	159	155	16	0	0
1994	0	0	0	0	31	93	131	158	148	72	40	19
1995	9	4	2	22	65	110	148	178	179	21	0	0
1996	0	0	0	0	11	105	149	133	38	0	0	0
1997	0	0	0	94	217	225	207	139	134	124	1	0
1998	0	0	0	1	38	111	144	176	182	69	0	0
1999	0	0	0	135	168	130	145	146	65	0	0	0
2000	0	0	0	0	10	62	128	132	64	9	3	1
2001	1	1	1	0	9	66	122	146	79	33	14	6
2002	4	3	2	3	28	60	104	139	110	49	24	11
2003	6	3	2	2	19	58	107	126	63	19	7	3

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Change in Average Simulated 52 Deg F Cold Water Pool Volume-Millerton Lake (TAF)
Alternative1 (2030) - No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					-354	-252	-141	-54	101	119	1	-3
1981	-3	-3	-8	-166	-354	-237	-107	5	57	3	-12	-9
1982	-7	-4	-17	-284	-135	-230	-213	-124	84	143	24	-2
1983	-2	-1	-21	-107	-89	-104	22	107	-326	-196	-58	-29
1984	-14	-7	-14	-167	-172	-154	-69	63	140	79	-6	-5
1985	-4	-3	-27	-274	-41	-98	-76	12	59	-4	-11	-8
1986	-7	-4	-49	-264	-294	-274	-179	-59	107	100	3	-6
1987	-6	-5	-8	-215	-269	-195	-92	2	38	-9	-14	-9
1988	-7	-7	-42	-177	-122	-40	-5	40	79	44	31	22
1989	7	-2	-24	-155	2	-30	-11	20	69	35	27	15
1990	4	-3	-20	-187	-175	-66	-17	36	84	52	39	30
1991	13	1	-48	-127	-74	-14	17	40	16	3	0	0
1992	0	0	-26	-195	-140	-83	-35	17	62	34	27	16
1993	4	-2	-23	-263	-336	-261	-84	2	36	-21	-17	-10
1994	-7	-6	-11	-249	-283	-153	-61	21	62	18	11	2
1995	-2	-3	-96	-324	-319	-245	-85	19	74	12	0	0
1996	0	-1	-3	-103	-261	-241	-86	16	-30	-28	-13	-9
1997	-7	-4	-24	-294	-129	-124	-20	78	132	123	1	0
1998	0	0	-8	-174	-348	-232	-165	48	156	67	0	0
1999	0	0	-10	-148	-177	-154	-43	41	2	-34	-17	-10
2000	-8	-6	-5	-78	-200	-193	-60	39	20	-9	-7	-6
2001	-5	-4	-12	-167	-228	-143	-41	50	21	3	-2	-4
2002	-4	-4	-11	-191	-201	-116	-48	16	36	8	4	-1
2003	-3	-4	-9	-112	-195	-128	-15	47	12	-5	-5	-5

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Percent Change in Average Simulated 52 Deg F Cold Water Pool Volume-Millerton Lake (TAF)
From No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					-86%	-69%	-49%	-24%	146%	1737%	35%	-86%
1981	-91%	-92%	-98%	-100%	-98%	-76%	-46%	3%	77%	6%	-63%	-80%
1982	-83%	-82%	-99%	-87%	-36%	-58%	-55%	-38%	66%	1311%	435%	-51%
1983	-67%	-62%	-98%	-29%	-23%	-30%	12%	141%	-100%	-100%	-100%	-99%
1984	-89%	-77%	-97%	-64%	-45%	-46%	-34%	86%	450%	597%	-77%	-94%
1985	-94%	-93%	-99%	-83%	-12%	-35%	-36%	9%	72%	-7%	-42%	-59%
1986	-71%	-70%	-98%	-97%	-90%	-78%	-54%	-24%	110%	555%	23%	-76%
1987	-85%	-90%	-96%	-100%	-100%	-76%	-43%	2%	42%	-15%	-38%	-44%
1988	-53%	-66%	-94%	-95%	-65%	-25%	-3%	34%	95%	82%	104%	131%
1989	61%	-20%	-85%	-94%	1%	-20%	-7%	15%	87%	73%	106%	106%
1990	35%	-32%	-86%	-97%	-86%	-42%	-11%	29%	108%	101%	140%	194%
1991	118%	10%	-91%	-88%	-63%	-14%	19%	93%	64%	26%	-1%	-8%
1992	-15%	1%	-97%	-97%	-64%	-48%	-22%	14%	78%	72%	116%	118%
1993	43%	-28%	-90%	-98%	-90%	-74%	-37%	1%	30%	-57%	-98%	-97%
1994	-97%	-97%	-99%	-100%	-90%	-62%	-32%	15%	72%	32%	36%	15%
1995	-17%	-40%	-98%	-94%	-83%	-69%	-36%	12%	70%	143%	-59%	-67%
1996	-77%	-85%	-96%	-100%	-96%	-70%	-37%	14%	-44%	-99%	-99%	-98%
1997	-98%	-97%	-98%	-76%	-37%	-35%	-9%	128%	7658%	37696%	481%	124%
1998	264%	148%	-96%	-99%	-90%	-68%	-53%	38%	592%	2662%	3051%	2885%
1999	2276%	1758%	-99%	-52%	-51%	-54%	-23%	39%	3%	-99%	-99%	-97%
2000	-96%	-96%	-95%	-100%	-95%	-76%	-32%	42%	45%	-51%	-74%	-79%
2001	-82%	-84%	-95%	-100%	-96%	-68%	-25%	51%	37%	9%	-15%	-40%
2002	-51%	-59%	-86%	-98%	-88%	-66%	-31%	13%	48%	20%	20%	-9%
2003	-36%	-55%	-78%	-98%	-91%	-69%	-12%	61%	23%	-21%	-43%	-60%

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 52 Deg F Cold Water Pool Volume-Millerton Lake (TAF)
No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					411	364	286	220	69	7	4	4
1981	4	4	8	166	362	312	231	139	74	40	19	11
1982	8	5	17	325	379	395	389	325	126	11	5	4
1983	3	1	22	373	387	343	185	76	327	196	59	29
1984	16	10	15	260	378	338	204	73	31	13	8	6
1985	4	3	27	329	333	276	209	132	82	50	26	14
1986	9	5	49	271	327	353	329	251	97	18	11	8
1987	7	6	9	215	269	256	215	149	92	61	36	20
1988	13	11	44	186	188	159	153	120	83	54	30	17
1989	12	10	28	165	169	152	144	132	79	48	25	15
1990	10	9	24	192	203	156	152	126	78	51	28	15
1991	11	9	53	145	117	100	89	43	26	11	6	4
1992	3	2	27	201	217	171	160	128	80	47	23	13
1993	9	8	25	267	372	354	231	157	119	38	17	10
1994	7	6	11	250	313	246	192	137	86	54	30	17
1995	11	7	98	346	383	355	233	159	106	9	0	0
1996	1	1	3	103	272	346	235	117	68	28	13	9
1997	7	5	24	388	346	348	227	61	2	0	0	0
1998	0	0	8	175	386	343	309	127	26	3	0	0
1999	0	0	10	283	344	284	187	105	63	34	17	11
2000	8	6	6	78	210	255	187	94	44	19	10	7
2001	6	5	13	168	236	209	162	96	57	30	16	11
2002	8	7	13	194	229	176	151	122	74	41	20	12
2003	9	7	11	114	215	186	123	78	52	25	13	9

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 52 Deg F Cold Water Pool Volume-Millerton Lake (TAF)
Alternative2 (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					56	111	144	167	171	118	11	1
1981	0	0	0	0	8	75	124	143	133	42	7	2
1982	1	1	0	38	242	164	176	201	210	147	17	3
1983	1	1	1	268	299	240	208	184	0	0	0	0
1984	2	2	0	90	204	184	135	136	171	92	5	1
1985	0	0	0	63	294	179	134	144	146	51	16	6
1986	3	1	1	7	32	79	150	192	205	129	24	5
1987	2	1	0	0	0	61	123	152	135	55	23	11
1988	6	4	3	9	69	122	149	161	164	100	62	40
1989	20	8	4	10	158	117	132	151	148	83	52	30
1990	14	6	3	6	28	91	135	162	164	104	68	46
1991	24	10	5	18	43	87	106	84	43	14	6	3
1992	2	2	1	6	78	88	125	145	144	83	51	29
1993	13	6	3	5	36	93	146	159	156	17	0	0
1994	0	0	0	0	28	92	131	158	149	73	40	19
1995	9	4	2	22	65	110	148	178	180	21	0	0
1996	0	0	0	0	11	105	149	139	39	0	0	0
1997	0	0	0	95	217	224	205	137	133	125	10	1
1998	0	0	0	1	38	111	145	176	183	70	0	0
1999	0	0	0	137	171	130	145	146	64	0	0	0
2000	0	0	0	0	9	62	127	131	61	8	2	1
2001	1	1	1	0	7	65	121	146	79	33	14	6
2002	4	3	2	3	28	61	104	139	110	49	24	11
2003	6	3	2	2	20	58	107	126	65	19	7	3

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Change in Average Simulated 52 Deg F Cold Water Pool Volume-Millerton Lake (TAF)
Alternative2 (2030) - No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					-354	-254	-142	-54	101	111	7	-3
1981	-3	-3	-8	-166	-354	-237	-107	4	59	2	-12	-9
1982	-7	-4	-17	-287	-137	-231	-213	-124	84	136	11	-1
1983	-2	-1	-21	-105	-89	-103	23	108	-327	-196	-58	-29
1984	-14	-7	-15	-170	-173	-154	-69	63	140	79	-3	-5
1985	-3	-2	-27	-267	-40	-97	-76	12	64	1	-9	-8
1986	-6	-4	-49	-265	-295	-274	-179	-59	108	110	13	-3
1987	-5	-5	-8	-215	-269	-195	-92	2	43	-7	-13	-9
1988	-7	-7	-42	-177	-118	-37	-4	41	81	46	32	23
1989	8	-2	-24	-155	-11	-35	-12	19	69	35	27	15
1990	3	-3	-20	-187	-175	-65	-16	36	85	53	40	30
1991	13	1	-48	-127	-74	-12	17	41	18	3	0	0
1992	0	0	-26	-195	-139	-83	-35	17	64	36	28	16
1993	4	-2	-23	-263	-336	-261	-84	2	37	-21	-17	-10
1994	-7	-6	-11	-250	-285	-154	-61	21	63	18	11	2
1995	-2	-3	-96	-324	-318	-244	-84	19	74	12	0	0
1996	0	-1	-3	-103	-261	-240	-86	23	-29	-28	-13	-9
1997	-7	-4	-24	-293	-130	-124	-22	76	131	125	9	1
1998	0	0	-8	-174	-348	-232	-164	49	157	67	0	0
1999	0	0	-10	-146	-174	-154	-43	41	1	-34	-17	-10
2000	-8	-6	-5	-78	-201	-193	-60	37	17	-10	-7	-6
2001	-5	-4	-12	-167	-230	-144	-42	50	22	3	-3	-4
2002	-4	-4	-11	-191	-201	-116	-48	16	36	8	4	-1
2003	-3	-4	-9	-112	-195	-128	-16	47	13	-5	-5	-5

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Percent Change in Average Simulated 52 Deg F Cold Water Pool Volume-Millerton Lake (TAF)
From No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					-86%	-70%	-50%	-24%	146%	1624%	170%	-78%
1981	-88%	-92%	-98%	-100%	-98%	-76%	-46%	3%	79%	4%	-64%	-78%
1982	-82%	-83%	-99%	-88%	-36%	-58%	-55%	-38%	66%	1245%	207%	-30%
1983	-59%	-57%	-98%	-28%	-23%	-30%	12%	142%	-100%	-100%	-100%	-99%
1984	-89%	-77%	-98%	-65%	-46%	-45%	-34%	86%	449%	602%	-42%	-90%
1985	-91%	-92%	-99%	-81%	-12%	-35%	-36%	9%	78%	1%	-36%	-54%
1986	-69%	-72%	-99%	-97%	-90%	-78%	-54%	-24%	111%	611%	118%	-38%
1987	-74%	-86%	-95%	-100%	-100%	-76%	-43%	2%	46%	-11%	-37%	-43%
1988	-54%	-67%	-94%	-95%	-63%	-23%	-3%	34%	98%	86%	107%	135%
1989	64%	-20%	-85%	-94%	-6%	-23%	-8%	15%	87%	73%	105%	104%
1990	33%	-32%	-85%	-97%	-86%	-42%	-11%	29%	109%	104%	143%	197%
1991	121%	11%	-91%	-88%	-63%	-12%	19%	95%	69%	30%	2%	-6%
1992	-13%	4%	-97%	-97%	-64%	-49%	-22%	14%	80%	75%	118%	120%
1993	44%	-28%	-89%	-98%	-90%	-74%	-37%	1%	31%	-55%	-97%	-97%
1994	-97%	-96%	-99%	-100%	-91%	-63%	-32%	15%	73%	34%	36%	15%
1995	-17%	-40%	-98%	-94%	-83%	-69%	-36%	12%	70%	145%	-59%	-67%
1996	-77%	-85%	-96%	-100%	-96%	-70%	-36%	19%	-43%	-99%	-99%	-98%
1997	-98%	-97%	-98%	-76%	-37%	-36%	-10%	124%	7599%	38165%	3811%	263%
1998	266%	127%	-97%	-99%	-90%	-68%	-53%	38%	597%	2686%	3387%	2885%
1999	2220%	1748%	-99%	-52%	-50%	-54%	-23%	39%	1%	-99%	-98%	-96%
2000	-95%	-95%	-94%	-100%	-96%	-76%	-32%	40%	40%	-55%	-75%	-79%
2001	-82%	-86%	-96%	-100%	-97%	-69%	-26%	52%	38%	8%	-16%	-41%
2002	-52%	-60%	-87%	-98%	-88%	-66%	-31%	13%	49%	20%	21%	-8%
2003	-36%	-55%	-78%	-98%	-91%	-69%	-13%	61%	25%	-22%	-43%	-60%

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 52 Deg F Cold Water Pool Volume-Millerton Lake (TAF)
No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					411	364	286	220	69	7	4	4
1981	4	4	8	166	362	312	231	139	74	40	19	11
1982	8	5	17	325	379	395	389	325	126	11	5	4
1983	3	1	22	373	387	343	185	76	327	196	59	29
1984	16	10	15	260	378	338	204	73	31	13	8	6
1985	4	3	27	329	333	276	209	132	82	50	26	14
1986	9	5	49	271	327	353	329	251	97	18	11	8
1987	7	6	9	215	269	256	215	149	92	61	36	20
1988	13	11	44	186	188	159	153	120	83	54	30	17
1989	12	10	28	165	169	152	144	132	79	48	25	15
1990	10	9	24	192	203	156	152	126	78	51	28	15
1991	11	9	53	145	117	100	89	43	26	11	6	4
1992	3	2	27	201	217	171	160	128	80	47	23	13
1993	9	8	25	267	372	354	231	157	119	38	17	10
1994	7	6	11	250	313	246	192	137	86	54	30	17
1995	11	7	98	346	383	355	233	159	106	9	0	0
1996	1	1	3	103	272	346	235	117	68	28	13	9
1997	7	5	24	388	346	348	227	61	2	0	0	0
1998	0	0	8	175	386	343	309	127	26	3	0	0
1999	0	0	10	283	344	284	187	105	63	34	17	11
2000	8	6	6	78	210	255	187	94	44	19	10	7
2001	6	5	13	168	236	209	162	96	57	30	16	11
2002	8	7	13	194	229	176	151	122	74	41	20	12
2003	9	7	11	114	215	186	123	78	52	25	13	9

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 52 Deg F Cold Water Pool Volume-Millerton Lake (TAF)
Alternative3 (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					58	112	144	167	165	105	2	0
1981	0	0	0	0	7	73	125	143	130	37	6	3
1982	2	1	0	50	250	167	176	201	211	150	27	5
1983	2	1	1	275	299	239	208	182	0	0	0	0
1984	2	2	0	96	206	184	134	136	174	60	0	0
1985	0	0	0	58	291	180	139	147	138	43	14	6
1986	3	2	1	7	34	78	150	191	204	121	19	3
1987	2	1	1	0	1	64	125	153	135	55	23	12
1988	6	4	3	9	66	120	149	161	164	99	62	40
1989	20	8	4	10	169	121	133	152	148	83	52	30
1990	14	6	3	5	28	89	134	162	163	103	67	45
1991	24	10	5	17	43	86	107	83	42	14	6	3
1992	2	2	1	6	77	88	125	145	142	81	50	29
1993	13	5	3	5	36	92	146	159	150	12	0	0
1994	0	0	0	0	30	94	131	158	149	73	40	19
1995	9	4	2	20	61	107	147	177	175	20	0	0
1996	0	0	0	0	10	105	148	134	37	0	0	0
1997	0	0	0	81	206	218	199	134	132	108	1	1
1998	0	0	0	1	38	111	144	174	180	69	1	0
1999	0	0	0	176	194	133	146	147	57	0	0	0
2000	0	0	0	0	9	63	128	133	54	6	2	1
2001	1	1	1	0	7	65	120	147	81	33	13	6
2002	4	3	2	3	28	62	106	139	111	50	25	11
2003	6	3	3	2	20	59	108	123	61	18	7	4

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Change in Average Simulated 52 Deg F Cold Water Pool Volume-Millerton Lake (TAF)
Alternative3 (2030) - No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					-353	-253	-142	-54	95	98	-2	-3
1981	-3	-3	-8	-166	-356	-239	-106	4	56	-3	-13	-9
1982	-6	-4	-17	-274	-129	-228	-212	-124	85	139	22	1
1983	-1	0	-21	-98	-89	-104	22	106	-327	-196	-58	-29
1984	-14	-7	-14	-164	-171	-154	-70	63	143	47	-8	-5
1985	-3	-2	-27	-271	-42	-96	-71	15	56	-7	-12	-8
1986	-6	-3	-48	-264	-293	-275	-180	-60	107	103	8	-5
1987	-5	-5	-8	-215	-268	-192	-90	3	43	-6	-13	-9
1988	-7	-7	-42	-177	-122	-39	-5	41	80	45	32	23
1989	8	-2	-24	-155	0	-31	-11	20	69	35	27	16
1990	4	-3	-20	-187	-175	-67	-18	36	85	52	39	30
1991	13	1	-48	-127	-74	-13	17	40	17	3	0	0
1992	0	0	-26	-195	-140	-83	-35	17	62	34	27	15
1993	4	-2	-23	-263	-336	-261	-85	2	31	-26	-17	-10
1994	-7	-6	-11	-250	-284	-153	-61	21	63	18	10	2
1995	-2	-3	-96	-326	-322	-248	-86	18	69	11	0	0
1996	0	-1	-3	-103	-262	-241	-86	17	-31	-28	-13	-9
1997	-7	-4	-24	-307	-140	-130	-27	73	130	108	1	0
1998	0	0	-8	-174	-348	-231	-165	47	154	66	1	0
1999	0	0	-10	-107	-150	-151	-42	42	-7	-34	-17	-10
2000	-8	-6	-5	-78	-201	-192	-59	39	11	-13	-8	-6
2001	-4	-4	-12	-167	-229	-144	-42	51	23	2	-3	-5
2002	-4	-4	-11	-191	-201	-114	-46	17	37	9	5	-1
2003	-3	-4	-9	-112	-195	-127	-15	45	10	-6	-6	-5

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Percent Change in Average Simulated 52 Deg F Cold Water Pool Volume-Millerton Lake (TAF)
From No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					-86%	-69%	-50%	-24%	137%	1432%	-51%	-91%
1981	-93%	-94%	-98%	-100%	-98%	-76%	-46%	3%	75%	-8%	-67%	-78%
1982	-78%	-75%	-98%	-85%	-34%	-58%	-55%	-38%	68%	1267%	404%	17%
1983	-20%	2%	-97%	-26%	-23%	-30%	12%	140%	-100%	-100%	-100%	-99%
1984	-87%	-74%	-97%	-63%	-45%	-46%	-34%	86%	459%	360%	-95%	-94%
1985	-92%	-91%	-99%	-82%	-13%	-35%	-34%	12%	68%	-14%	-46%	-57%
1986	-64%	-60%	-98%	-97%	-90%	-78%	-55%	-24%	111%	571%	68%	-64%
1987	-70%	-77%	-89%	-100%	-100%	-75%	-42%	2%	47%	-11%	-36%	-43%
1988	-53%	-66%	-94%	-95%	-65%	-25%	-3%	34%	97%	85%	107%	135%
1989	65%	-19%	-85%	-94%	0%	-20%	-8%	15%	87%	74%	106%	107%
1990	36%	-32%	-85%	-97%	-86%	-43%	-12%	28%	108%	102%	141%	195%
1991	119%	11%	-91%	-88%	-64%	-13%	19%	94%	66%	27%	0%	-8%
1992	-14%	2%	-97%	-97%	-64%	-49%	-22%	14%	77%	71%	115%	115%
1993	41%	-29%	-90%	-98%	-90%	-74%	-37%	1%	26%	-69%	-99%	-98%
1994	-98%	-98%	-99%	-100%	-91%	-62%	-32%	15%	74%	33%	35%	13%
1995	-19%	-42%	-98%	-94%	-84%	-70%	-37%	11%	66%	131%	-60%	-67%
1996	-77%	-85%	-96%	-100%	-96%	-70%	-37%	15%	-46%	-99%	-99%	-99%
1997	-98%	-97%	-98%	-79%	-41%	-37%	-12%	120%	7560%	33093%	379%	149%
1998	224%	150%	-96%	-99%	-90%	-67%	-53%	37%	586%	2646%	4701%	3063%
1999	2247%	1905%	-99%	-38%	-44%	-53%	-22%	40%	-11%	-100%	-99%	-98%
2000	-98%	-96%	-95%	-100%	-96%	-75%	-32%	42%	24%	-69%	-80%	-80%
2001	-80%	-78%	-93%	-100%	-97%	-69%	-26%	52%	41%	8%	-18%	-42%
2002	-52%	-59%	-86%	-98%	-88%	-65%	-30%	14%	50%	23%	26%	-5%
2003	-35%	-55%	-77%	-98%	-91%	-68%	-12%	57%	18%	-26%	-46%	-59%

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 52 Deg F Cold Water Pool Volume-Millerton Lake (TAF)
No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					411	364	286	220	69	7	4	4
1981	4	4	8	166	362	312	231	139	74	40	19	11
1982	8	5	17	325	379	395	389	325	126	11	5	4
1983	3	1	22	373	387	343	185	76	327	196	59	29
1984	16	10	15	260	378	338	204	73	31	13	8	6
1985	4	3	27	329	333	276	209	132	82	50	26	14
1986	9	5	49	271	327	353	329	251	97	18	11	8
1987	7	6	9	215	269	256	215	149	92	61	36	20
1988	13	11	44	186	188	159	153	120	83	54	30	17
1989	12	10	28	165	169	152	144	132	79	48	25	15
1990	10	9	24	192	203	156	152	126	78	51	28	15
1991	11	9	53	145	117	100	89	43	26	11	6	4
1992	3	2	27	201	217	171	160	128	80	47	23	13
1993	9	8	25	267	372	354	231	157	119	38	17	10
1994	7	6	11	250	313	246	192	137	86	54	30	17
1995	11	7	98	346	383	355	233	159	106	9	0	0
1996	1	1	3	103	272	346	235	117	68	28	13	9
1997	7	5	24	388	346	348	227	61	2	0	0	0
1998	0	0	8	175	386	343	309	127	26	3	0	0
1999	0	0	10	283	344	284	187	105	63	34	17	11
2000	8	6	6	78	210	255	187	94	44	19	10	7
2001	6	5	13	168	236	209	162	96	57	30	16	11
2002	8	7	13	194	229	176	151	122	74	41	20	12
2003	9	7	11	114	215	186	123	78	52	25	13	9

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 52 Deg F Cold Water Pool Volume-Millerton Lake (TAF)
Alternative4 (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					315	168	150	92	0	0	0	132
1981	154	85	55	337	272	150	139	98	22	3	8	109
1982	83	45	11	196	312	215	190	166	57	1	5	147
1983	170	110	75	366	318	257	213	168	0	0	1	113
1984	149	128	22	229	270	216	139	65	4	0	0	121
1985	141	77	71	345	320	217	156	108	49	15	11	91
1986	62	32	9	15	52	104	159	155	51	0	1	136
1987	177	135	105	343	258	185	171	126	67	37	25	102
1988	76	53	31	271	287	214	196	173	137	77	58	90
1989	69	44	21	117	306	165	148	146	99	54	44	84
1990	62	37	18	7	149	191	169	170	118	71	49	75
1991	64	42	23	230	196	106	108	66	20	5	2	1
1992	1	1	1	72	162	102	132	124	82	47	29	75
1993	60	36	14	7	50	105	148	84	0	0	3	115
1994	73	37	10	114	216	129	140	126	69	64	55	100
1995	79	49	18	202	191	170	153	105	2	0	2	120
1996	126	64	32	10	41	125	157	74	1	0	0	80
1997	124	50	16	199	256	239	212	80	1	0	0	113
1998	148	139	95	222	231	169	172	85	74	0	0	108
1999	110	54	70	340	283	164	157	99	12	1	0	64
2000	49	20	5	2	11	65	131	91	16	2	1	58
2001	50	22	8	1	9	78	135	118	57	21	6	50
2002	30	16	6	3	25	64	105	99	50	19	12	82
2003	57	33	16	6	8	52	105	72	20	6	1	1

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Change in Average Simulated 52 Deg F Cold Water Pool Volume-Millerton Lake (TAF)
Alternative4 (2030) - No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					-96	-196	-136	-129	-69	-7	-3	128
1981	150	82	47	171	-90	-162	-92	-41	-52	-37	-11	97
1982	74	40	-6	-129	-67	-180	-199	-160	-69	-10	-1	143
1983	167	109	53	-7	-70	-87	27	92	-326	-196	-58	84
1984	133	119	7	-32	-108	-122	-65	-8	-27	-13	-8	116
1985	138	74	43	15	-14	-59	-54	-24	-33	-35	-15	76
1986	53	27	-40	-257	-275	-249	-170	-97	-46	-18	-10	128
1987	171	130	97	128	-11	-71	-44	-24	-26	-24	-12	82
1988	63	42	-13	85	100	55	43	53	54	23	27	73
1989	58	34	-6	-48	137	12	4	14	20	6	19	70
1990	52	29	-6	-185	-54	35	17	44	40	20	21	60
1991	53	33	-30	85	79	7	19	23	-6	-6	-4	-2
1992	-1	-1	-26	-129	-55	-69	-28	-4	2	-1	5	62
1993	51	28	-11	-261	-322	-248	-82	-73	-119	-38	-14	105
1994	66	31	-1	-136	-97	-117	-52	-11	-17	10	25	84
1995	68	42	-80	-143	-193	-184	-79	-53	-104	-8	2	119
1996	125	63	29	-93	-231	-221	-78	-43	-67	-28	-13	70
1997	117	45	-9	-189	-90	-109	-15	19	-1	0	0	113
1998	148	138	86	47	-155	-174	-137	-42	48	-2	0	108
1999	110	54	60	57	-61	-120	-30	-6	-52	-33	-17	53
2000	41	13	-1	-77	-199	-190	-57	-3	-28	-16	-8	51
2001	44	17	-4	-166	-227	-131	-28	21	0	-9	-10	39
2002	22	9	-7	-191	-204	-113	-47	-24	-24	-22	-7	70
2003	48	26	5	-109	-207	-134	-18	-6	-31	-19	-11	-8

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Percent Change in Average Simulated 52 Deg F Cold Water Pool Volume-Millerton Lake (TAF)
From No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					-23%	-54%	-48%	-58%	-100%	-98%	-87%	3403%
1981	4152%	2205%	608%	103%	-25%	-52%	-40%	-29%	-70%	-92%	-57%	854%
1982	921%	769%	-35%	-40%	-18%	-46%	-51%	-49%	-55%	-92%	-14%	3461%
1983	6133%	8122%	239%	-2%	-18%	-25%	15%	121%	-100%	-100%	-99%	290%
1984	845%	1246%	49%	-12%	-29%	-36%	-32%	-11%	-86%	-97%	-97%	2065%
1985	3672%	2754%	159%	5%	-4%	-21%	-26%	-18%	-40%	-70%	-57%	542%
1986	564%	512%	-82%	-95%	-84%	-70%	-52%	-38%	-47%	-98%	-88%	1568%
1987	2584%	2176%	1121%	59%	-4%	-28%	-20%	-16%	-28%	-39%	-32%	407%
1988	474%	388%	-30%	46%	53%	34%	28%	44%	65%	43%	91%	435%
1989	486%	349%	-22%	-29%	81%	8%	3%	11%	25%	13%	74%	478%
1990	508%	337%	-26%	-96%	-27%	22%	11%	35%	51%	38%	74%	389%
1991	487%	352%	-57%	59%	68%	7%	21%	53%	-22%	-54%	-61%	-60%
1992	-54%	-33%	-98%	-64%	-25%	-41%	-18%	-3%	3%	-1%	22%	465%
1993	554%	363%	-44%	-97%	-86%	-70%	-36%	-47%	-100%	-100%	-80%	1065%
1994	908%	519%	-12%	-54%	-31%	-47%	-27%	-8%	-20%	18%	83%	498%
1995	630%	626%	-81%	-41%	-50%	-52%	-34%	-34%	-98%	-98%	578%	31504%
1996	23063%	7378%	891%	-90%	-85%	-64%	-33%	-37%	-98%	-99%	-99%	776%
1997	1655%	1000%	-36%	-49%	-26%	-31%	-6%	31%	-56%	-49%	69%	52727%
1998	112982%	82492%	1030%	27%	-40%	-51%	-44%	-33%	182%	-84%	1146%	1404302%
1999	1428480%	699660%	600%	20%	-18%	-42%	-16%	-6%	-82%	-97%	-99%	500%
2000	507%	211%	-12%	-98%	-95%	-74%	-30%	-3%	-64%	-88%	-86%	732%
2001	799%	353%	-35%	-99%	-96%	-63%	-17%	22%	0%	-29%	-61%	364%
2002	282%	126%	-53%	-99%	-89%	-64%	-31%	-19%	-32%	-54%	-38%	580%
2003	557%	355%	43%	-95%	-96%	-72%	-15%	-8%	-61%	-77%	-89%	-88%

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 60 Deg F Cold Water Pool Volume-Millerton Lake (TAF)
Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					423	442	457	464	375	330	131	82
1981	60	178	374	401	424	442	407	382	216	99	68	46
1982	30	170	249	357	410	441	457	457	421	289	119	83
1983	101	316	439	437	427	434	338	146	404	437	201	103
1984	75	145	446	441	449	450	453	374	291	123	76	53
1985	41	216	313	362	388	400	393	406	254	113	72	53
1986	37	137	245	323	391	432	457	415	426	235	107	74
1987	54	165	329	360	380	401	360	366	248	117	76	54
1988	33	77	183	231	263	254	253	265	189	107	71	49
1989	29	73	155	184	202	218	242	269	168	99	68	47
1990	30	124	186	212	231	221	223	228	134	88	63	41
1991	25	105	146	162	164	168	167	155	161	112	70	47
1992	30	91	187	219	249	268	262	289	170	91	64	41
1993	25	71	174	284	398	398	374	315	379	287	120	78
1994	56	154	325	360	381	398	366	337	244	114	74	52
1995	39	176	219	319	413	410	378	314	361	402	156	86
1996	61	35	253	310	380	424	380	371	315	146	81	56
1997	36	212	402	472	402	418	427	391	248	98	65	41
1998	24	108	265	335	437	424	449	341	352	365	138	78
1999	53	209	327	362	411	427	383	314	306	145	80	55
2000	35	40	236	277	369	404	393	359	313	133	79	55
2001	35	163	255	287	305	311	297	302	218	102	67	44
2002	26	45	201	275	307	307	301	307	222	108	72	49
2003	29	66	231	296	344	323	278	232	280	139	77	53

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 60 Deg F Cold Water Pool Volume-Millerton Lake (TAF)
Alternative1 (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					347	347	332	241	205	294	250	228
1981	232	338	347	347	347	347	290	214	193	216	193	93
1982	54	58	347	347	347	347	327	264	247	268	246	244
1983	227	339	366	367	361	376	412	343	376	348	307	242
1984	211	287	370	365	371	364	343	246	231	223	244	241
1985	213	345	347	347	345	340	290	243	229	247	193	101
1986	66	157	347	347	345	318	268	239	261	266	256	259
1987	259	342	347	347	347	340	270	241	244	250	213	121
1988	88	75	347	347	346	318	259	242	234	228	151	109
1989	88	66	345	347	346	334	270	224	208	209	134	100
1990	79	86	347	347	347	327	270	243	220	211	143	109
1991	88	123	335	346	346	345	298	195	182	188	123	86
1992	64	44	347	347	345	314	249	216	199	190	123	93
1993	72	47	329	347	347	307	296	203	212	236	248	227
1994	152	234	347	347	347	319	253	222	224	227	174	108
1995	83	205	347	349	347	337	298	240	224	296	259	207
1996	205	238	347	347	341	312	254	251	248	197	215	221
1997	216	347	347	355	349	335	306	295	226	191	216	222
1998	186	256	347	347	347	317	292	240	226	233	199	201
1999	205	328	347	347	347	344	307	209	210	227	231	178
2000	93	41	325	347	345	309	243	200	215	229	186	89
2001	51	116	347	347	347	318	250	229	215	216	133	83
2002	60	34	283	347	344	329	253	214	209	210	145	91
2003	69	40	231	347	346	301	225	202	223	221	150	83

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Change in Average Simulated 60 Deg F Cold Water Pool Volume-Millerton Lake (TAF)
Alternative1 (2005) - Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					-76	-95	-125	-223	-170	-36	120	146
1981	171	160	-27	-54	-77	-95	-117	-168	-23	117	125	47
1982	25	-112	98	-10	-63	-95	-130	-193	-174	-21	127	161
1983	126	23	-73	-71	-65	-57	75	197	-28	-89	106	138
1984	137	142	-76	-76	-77	-86	-109	-128	-60	99	168	188
1985	172	129	34	-16	-43	-60	-103	-163	-25	135	121	48
1986	29	20	102	24	-46	-113	-189	-176	-165	31	149	185
1987	204	177	18	-13	-33	-61	-91	-125	-4	133	137	67
1988	55	-2	163	116	83	64	6	-23	44	122	80	61
1989	59	-7	190	163	144	116	28	-45	39	111	66	53
1990	49	-37	161	135	115	106	47	15	86	123	81	68
1991	64	18	189	184	182	177	131	40	21	76	52	40
1992	34	-47	160	128	96	46	-13	-73	29	99	59	51
1993	47	-24	155	63	-51	-90	-78	-112	-167	-51	129	149
1994	96	80	22	-13	-34	-79	-114	-116	-20	113	100	55
1995	44	29	128	30	-66	-73	-80	-74	-138	-105	103	121
1996	144	203	94	37	-39	-112	-125	-120	-68	51	135	166
1997	180	135	-55	-117	-53	-84	-121	-95	-22	93	151	181
1998	161	148	82	12	-90	-106	-157	-101	-126	-132	61	122
1999	152	119	20	-16	-64	-83	-76	-106	-95	82	151	122
2000	58	1	89	70	-25	-94	-150	-159	-98	97	107	34
2001	16	-47	91	60	42	7	-47	-74	-3	114	66	39
2002	34	-12	82	71	37	23	-48	-93	-13	103	74	43
2003	40	-26	0	50	2	-22	-54	-30	-57	82	73	30

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Percent Change in Average Simulated 60 Deg F Cold Water Pool Volume-Millerton Lake (TAF)
From Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					-18%	-22%	-27%	-48%	-45%	-11%	92%	178%
1981	284%	90%	-7%	-13%	-18%	-21%	-29%	-44%	-10%	118%	182%	102%
1982	84%	-66%	39%	-3%	-15%	-21%	-29%	-42%	-41%	-7%	107%	195%
1983	124%	7%	-17%	-16%	-15%	-13%	22%	135%	-7%	-20%	53%	134%
1984	183%	98%	-17%	-17%	-17%	-19%	-24%	-34%	-21%	81%	219%	353%
1985	424%	60%	11%	-4%	-11%	-15%	-26%	-40%	-10%	120%	167%	92%
1986	80%	15%	42%	7%	-12%	-26%	-41%	-42%	-39%	13%	139%	251%
1987	376%	107%	5%	-4%	-9%	-15%	-25%	-34%	-2%	114%	181%	126%
1988	164%	-2%	89%	50%	32%	25%	2%	-9%	24%	114%	113%	125%
1989	201%	-10%	122%	88%	71%	53%	12%	-17%	23%	112%	97%	114%
1990	160%	-30%	87%	64%	50%	48%	21%	7%	64%	140%	128%	166%
1991	260%	17%	129%	113%	111%	106%	78%	26%	13%	68%	75%	85%
1992	114%	-52%	86%	59%	39%	17%	-5%	-25%	17%	109%	92%	124%
1993	190%	-34%	89%	22%	-13%	-23%	-21%	-36%	-44%	-18%	108%	190%
1994	173%	52%	7%	-4%	-9%	-20%	-31%	-34%	-8%	99%	137%	106%
1995	112%	17%	58%	9%	-16%	-18%	-21%	-24%	-38%	-26%	66%	140%
1996	236%	572%	37%	12%	-10%	-26%	-33%	-32%	-21%	35%	166%	297%
1997	497%	64%	-14%	-25%	-13%	-20%	-28%	-24%	-9%	95%	233%	441%
1998	664%	136%	31%	3%	-21%	-25%	-35%	-30%	-36%	-36%	44%	156%
1999	286%	57%	6%	-4%	-16%	-19%	-20%	-34%	-31%	56%	188%	221%
2000	168%	4%	37%	25%	-7%	-23%	-38%	-44%	-31%	73%	135%	62%
2001	47%	-29%	36%	21%	14%	2%	-16%	-24%	-1%	113%	98%	88%
2002	130%	-26%	41%	26%	12%	7%	-16%	-30%	-6%	96%	102%	88%
2003	139%	-40%	0%	17%	1%	-7%	-19%	-13%	-20%	59%	95%	56%

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 60 Deg F Cold Water Pool Volume-Millerton Lake (TAF)
Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					423	442	457	464	375	330	131	82
1981	60	178	374	401	424	442	407	382	216	99	68	46
1982	30	170	249	357	410	441	457	457	421	289	119	83
1983	101	316	439	437	427	434	338	146	404	437	201	103
1984	75	145	446	441	449	450	453	374	291	123	76	53
1985	41	216	313	362	388	400	393	406	254	113	72	53
1986	37	137	245	323	391	432	457	415	426	235	107	74
1987	54	165	329	360	380	401	360	366	248	117	76	54
1988	33	77	183	231	263	254	253	265	189	107	71	49
1989	29	73	155	184	202	218	242	269	168	99	68	47
1990	30	124	186	212	231	221	223	228	134	88	63	41
1991	25	105	146	162	164	168	167	155	161	112	70	47
1992	30	91	187	219	249	268	262	289	170	91	64	41
1993	25	71	174	284	398	398	374	315	379	287	120	78
1994	56	154	325	360	381	398	366	337	244	114	74	52
1995	39	176	219	319	413	410	378	314	361	402	156	86
1996	61	35	253	310	380	424	380	371	315	146	81	56
1997	36	212	402	472	402	418	427	391	248	98	65	41
1998	24	108	265	335	437	424	449	341	352	365	138	78
1999	53	209	327	362	411	427	383	314	306	145	80	55
2000	35	40	236	277	369	404	393	359	313	133	79	55
2001	35	163	255	287	305	311	297	302	218	102	67	44
2002	26	45	201	275	307	307	301	307	222	108	72	49
2003	29	66	231	296	344	323	278	232	280	139	77	53

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 60 Deg F Cold Water Pool Volume-Millerton Lake (TAF)
Alternative2 (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					345	345	327	234	207	280	246	227
1981	232	336	345	345	345	345	284	212	192	213	199	100
1982	57	55	345	346	345	345	325	262	246	271	247	242
1983	225	334	367	365	360	375	411	341	374	346	304	243
1984	209	283	368	364	370	363	340	244	230	221	242	238
1985	214	343	345	345	343	335	285	239	226	244	205	110
1986	71	149	345	345	342	314	266	237	258	258	262	259
1987	258	340	345	345	345	337	266	240	241	248	212	123
1988	91	76	345	345	345	314	257	239	233	229	152	110
1989	89	66	342	345	345	333	270	223	206	209	136	100
1990	80	90	345	345	345	326	269	242	219	209	141	108
1991	88	124	333	345	344	343	298	196	182	190	126	88
1992	66	46	345	345	343	313	248	215	198	189	123	93
1993	71	47	329	346	345	307	297	202	210	227	246	225
1994	150	228	345	345	345	318	252	220	223	225	172	107
1995	82	205	345	347	346	335	298	239	222	297	259	206
1996	205	242	345	345	338	308	239	241	249	199	217	221
1997	215	345	346	353	348	332	303	292	223	192	220	224
1998	179	244	345	345	345	314	287	239	224	233	203	202
1999	207	328	345	345	345	341	305	207	210	228	233	199
2000	107	44	330	345	342	306	241	199	213	227	192	94
2001	52	115	345	345	345	314	249	228	215	216	137	84
2002	60	32	281	345	341	323	249	212	208	210	141	90
2003	68	40	224	345	343	290	218	197	221	220	162	88

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Change in Average Simulated 60 Deg F Cold Water Pool Volume-Millerton Lake (TAF)
Alternative2 (2005) - Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					-78	-97	-131	-230	-168	-50	115	145
1981	172	158	-29	-56	-79	-97	-122	-170	-24	114	131	54
1982	28	-115	96	-12	-64	-96	-132	-195	-175	-18	128	159
1983	124	18	-72	-73	-67	-59	73	196	-30	-91	103	140
1984	134	138	-77	-78	-79	-87	-112	-130	-61	98	165	185
1985	173	127	33	-17	-45	-65	-108	-167	-28	131	133	58
1986	34	12	100	22	-48	-117	-191	-178	-169	24	155	186
1987	203	175	16	-15	-34	-64	-95	-127	-7	131	136	69
1988	57	-1	162	114	82	60	4	-26	44	122	81	61
1989	59	-8	187	161	143	115	27	-46	38	111	67	54
1990	49	-33	159	133	114	105	46	14	85	121	79	67
1991	63	19	187	182	180	176	131	41	21	78	56	41
1992	36	-45	159	127	95	45	-14	-74	28	98	59	51
1993	47	-24	156	62	-53	-91	-77	-113	-170	-60	126	147
1994	94	74	20	-15	-35	-80	-114	-117	-21	111	98	54
1995	43	30	126	29	-67	-75	-81	-75	-139	-105	103	120
1996	144	206	93	36	-42	-117	-140	-130	-66	53	136	165
1997	178	133	-56	-119	-54	-86	-125	-98	-25	94	155	183
1998	155	135	81	10	-92	-110	-162	-103	-127	-132	65	124
1999	154	118	19	-17	-66	-86	-78	-107	-96	83	153	143
2000	73	4	94	69	-27	-98	-152	-160	-101	94	113	39
2001	17	-47	90	59	41	4	-49	-74	-3	115	70	40
2002	34	-13	80	70	34	16	-52	-95	-13	102	69	42
2003	39	-26	-7	49	0	-33	-61	-34	-59	81	85	36

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Percent Change in Average Simulated 60 Deg F Cold Water Pool Volume-Millerton Lake (TAF)
From Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					-18%	-22%	-29%	-50%	-45%	-15%	88%	177%
1981	285%	89%	-8%	-14%	-19%	-22%	-30%	-44%	-11%	116%	191%	117%
1982	94%	-68%	38%	-3%	-16%	-22%	-29%	-43%	-42%	-6%	108%	192%
1983	122%	6%	-17%	-17%	-16%	-14%	22%	134%	-7%	-21%	51%	136%
1984	179%	95%	-17%	-18%	-18%	-19%	-25%	-35%	-21%	80%	216%	347%
1985	426%	59%	10%	-5%	-12%	-16%	-28%	-41%	-11%	116%	184%	110%
1986	94%	9%	41%	7%	-12%	-27%	-42%	-43%	-40%	10%	145%	251%
1987	374%	106%	5%	-4%	-9%	-16%	-26%	-35%	-3%	112%	180%	130%
1988	171%	-2%	88%	49%	31%	24%	1%	-10%	23%	114%	115%	126%
1989	202%	-10%	120%	87%	70%	53%	11%	-17%	23%	112%	99%	115%
1990	162%	-27%	86%	63%	49%	48%	21%	6%	64%	138%	125%	164%
1991	257%	18%	128%	112%	110%	105%	78%	26%	13%	69%	80%	88%
1992	119%	-50%	85%	58%	38%	17%	-5%	-26%	16%	108%	92%	123%
1993	190%	-34%	90%	22%	-13%	-23%	-21%	-36%	-45%	-21%	106%	187%
1994	169%	48%	6%	-4%	-9%	-20%	-31%	-35%	-9%	97%	133%	104%
1995	111%	17%	58%	9%	-16%	-18%	-21%	-24%	-38%	-26%	66%	140%
1996	236%	581%	37%	12%	-11%	-27%	-37%	-35%	-21%	36%	168%	296%
1997	493%	63%	-14%	-25%	-13%	-21%	-29%	-25%	-10%	96%	240%	445%
1998	636%	125%	31%	3%	-21%	-26%	-36%	-30%	-36%	-36%	47%	158%
1999	290%	56%	6%	-5%	-16%	-20%	-20%	-34%	-31%	57%	191%	259%
2000	210%	10%	40%	25%	-7%	-24%	-39%	-45%	-32%	71%	143%	71%
2001	48%	-29%	35%	20%	13%	1%	-16%	-25%	-1%	113%	105%	90%
2002	129%	-30%	40%	25%	11%	5%	-17%	-31%	-6%	95%	97%	85%
2003	135%	-39%	-3%	17%	0%	-10%	-22%	-15%	-21%	59%	111%	67%

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 60 Deg F Cold Water Pool Volume-Millerton Lake (TAF)
Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					423	442	457	464	375	330	131	82
1981	60	178	374	401	424	442	407	382	216	99	68	46
1982	30	170	249	357	410	441	457	457	421	289	119	83
1983	101	316	439	437	427	434	338	146	404	437	201	103
1984	75	145	446	441	449	450	453	374	291	123	76	53
1985	41	216	313	362	388	400	393	406	254	113	72	53
1986	37	137	245	323	391	432	457	415	426	235	107	74
1987	54	165	329	360	380	401	360	366	248	117	76	54
1988	33	77	183	231	263	254	253	265	189	107	71	49
1989	29	73	155	184	202	218	242	269	168	99	68	47
1990	30	124	186	212	231	221	223	228	134	88	63	41
1991	25	105	146	162	164	168	167	155	161	112	70	47
1992	30	91	187	219	249	268	262	289	170	91	64	41
1993	25	71	174	284	398	398	374	315	379	287	120	78
1994	56	154	325	360	381	398	366	337	244	114	74	52
1995	39	176	219	319	413	410	378	314	361	402	156	86
1996	61	35	253	310	380	424	380	371	315	146	81	56
1997	36	212	402	472	402	418	427	391	248	98	65	41
1998	24	108	265	335	437	424	449	341	352	365	138	78
1999	53	209	327	362	411	427	383	314	306	145	80	55
2000	35	40	236	277	369	404	393	359	313	133	79	55
2001	35	163	255	287	305	311	297	302	218	102	67	44
2002	26	45	201	275	307	307	301	307	222	108	72	49
2003	29	66	231	296	344	323	278	232	280	139	77	53

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 60 Deg F Cold Water Pool Volume-Millerton Lake (TAF)
Alternative3 (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					347	347	326	234	196	201	229	245
1981	226	343	347	347	347	347	284	212	192	217	149	83
1982	57	68	347	347	347	347	326	263	242	252	259	247
1983	216	330	347	365	361	376	410	343	375	349	307	243
1984	214	291	370	365	370	363	315	232	215	238	250	218
1985	119	257	347	347	345	336	285	240	230	246	165	94
1986	68	165	347	347	345	318	268	239	233	260	276	261
1987	248	335	347	347	347	339	266	240	241	247	187	112
1988	89	84	347	347	347	316	259	240	234	228	153	111
1989	89	66	336	347	347	334	271	224	207	207	133	100
1990	79	87	347	347	347	327	270	243	220	216	155	113
1991	92	127	330	332	326	329	291	200	183	194	134	91
1992	68	47	347	347	345	314	250	216	199	185	120	92
1993	71	46	328	347	347	308	298	209	192	176	189	107
1994	68	142	347	347	347	319	248	215	216	213	152	97
1995	74	191	347	347	347	338	299	234	206	270	247	203
1996	207	245	347	347	341	311	234	217	224	203	223	220
1997	192	346	347	355	349	333	266	252	210	187	220	222
1998	152	215	347	347	347	315	288	232	219	216	210	205
1999	204	327	347	347	347	344	307	210	215	217	190	85
2000	55	26	277	347	344	305	233	195	215	220	138	73
2001	50	114	347	347	347	316	244	222	209	206	122	78
2002	56	31	272	347	343	324	245	207	204	202	133	87
2003	65	38	212	347	345	290	214	197	216	209	124	75

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Change in Average Simulated 60 Deg F Cold Water Pool Volume-Millerton Lake (TAF)
Alternative3 (2005) - Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					-76	-95	-131	-229	-178	-129	99	163
1981	166	165	-27	-54	-77	-95	-122	-170	-24	118	81	37
1982	27	-102	98	-10	-63	-94	-131	-194	-179	-37	140	164
1983	115	14	-92	-72	-65	-57	72	197	-29	-88	106	139
1984	139	146	-76	-76	-79	-87	-138	-142	-76	115	173	165
1985	79	40	34	-15	-44	-64	-108	-166	-24	134	93	42
1986	31	28	102	24	-46	-113	-188	-176	-193	25	169	187
1987	193	170	18	-13	-33	-62	-95	-126	-7	130	111	59
1988	55	7	163	116	83	62	5	-25	45	121	82	62
1989	60	-8	181	163	144	116	29	-44	39	109	65	53
1990	48	-37	161	135	115	107	47	15	86	129	92	72
1991	67	22	184	170	162	161	123	45	22	82	64	44
1992	38	-44	160	128	96	46	-13	-73	29	94	56	51
1993	46	-25	154	63	-51	-90	-76	-107	-187	-111	69	29
1994	12	-11	22	-13	-34	-79	-118	-122	-28	99	78	45
1995	35	15	128	28	-66	-73	-80	-80	-155	-132	91	117
1996	146	210	94	37	-39	-113	-145	-154	-91	57	142	164
1997	156	134	-55	-117	-52	-85	-161	-139	-38	90	155	181
1998	128	107	82	12	-90	-108	-161	-109	-133	-149	72	126
1999	151	117	20	-15	-64	-83	-76	-104	-91	72	110	30
2000	20	-14	41	70	-26	-99	-160	-164	-99	87	59	18
2001	15	-49	92	60	42	5	-53	-81	-10	104	55	34
2002	30	-14	71	72	36	17	-56	-100	-18	94	61	38
2003	36	-28	-20	51	1	-33	-64	-35	-64	70	48	22

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Percent Change in Average Simulated 60 Deg F Cold Water Pool Volume-Millerton Lake (TAF)
From Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					-18%	-22%	-29%	-49%	-48%	-39%	76%	199%
1981	276%	93%	-7%	-13%	-18%	-21%	-30%	-45%	-11%	119%	118%	81%
1982	92%	-60%	39%	-3%	-15%	-21%	-29%	-42%	-42%	-13%	118%	198%
1983	113%	4%	-21%	-16%	-15%	-13%	21%	135%	-7%	-20%	53%	135%
1984	186%	101%	-17%	-17%	-18%	-19%	-30%	-38%	-26%	93%	227%	309%
1985	194%	19%	11%	-4%	-11%	-16%	-27%	-41%	-10%	119%	129%	80%
1986	85%	21%	42%	7%	-12%	-26%	-41%	-42%	-45%	11%	158%	254%
1987	355%	103%	5%	-4%	-9%	-16%	-26%	-34%	-3%	111%	146%	110%
1988	165%	9%	89%	50%	32%	24%	2%	-9%	24%	113%	116%	128%
1989	205%	-10%	117%	88%	71%	53%	12%	-17%	23%	110%	95%	113%
1990	159%	-30%	87%	64%	50%	48%	21%	7%	64%	147%	146%	176%
1991	273%	21%	126%	105%	99%	96%	74%	29%	14%	73%	91%	95%
1992	126%	-48%	86%	59%	39%	17%	-5%	-25%	17%	103%	88%	122%
1993	187%	-35%	89%	22%	-13%	-23%	-20%	-34%	-49%	-39%	58%	37%
1994	22%	-7%	7%	-4%	-9%	-20%	-32%	-36%	-12%	87%	106%	86%
1995	89%	9%	58%	9%	-16%	-18%	-21%	-26%	-43%	-33%	58%	136%
1996	240%	591%	37%	12%	-10%	-27%	-38%	-41%	-29%	39%	176%	294%
1997	432%	63%	-14%	-25%	-13%	-20%	-38%	-36%	-15%	92%	240%	441%
1998	525%	98%	31%	3%	-21%	-26%	-36%	-32%	-38%	-41%	52%	161%
1999	284%	56%	6%	-4%	-16%	-19%	-20%	-33%	-30%	50%	137%	54%
2000	59%	-36%	17%	25%	-7%	-25%	-41%	-46%	-32%	66%	75%	33%
2001	42%	-30%	36%	21%	14%	2%	-18%	-27%	-4%	102%	82%	76%
2002	115%	-31%	35%	26%	12%	6%	-19%	-32%	-8%	88%	85%	79%
2003	124%	-43%	-8%	17%	0%	-10%	-23%	-15%	-23%	51%	62%	42%

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 60 Deg F Cold Water Pool Volume-Millerton Lake (TAF)
Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					423	442	457	464	375	330	131	82
1981	60	178	374	401	424	442	407	382	216	99	68	46
1982	30	170	249	357	410	441	457	457	421	289	119	83
1983	101	316	439	437	427	434	338	146	404	437	201	103
1984	75	145	446	441	449	450	453	374	291	123	76	53
1985	41	216	313	362	388	400	393	406	254	113	72	53
1986	37	137	245	323	391	432	457	415	426	235	107	74
1987	54	165	329	360	380	401	360	366	248	117	76	54
1988	33	77	183	231	263	254	253	265	189	107	71	49
1989	29	73	155	184	202	218	242	269	168	99	68	47
1990	30	124	186	212	231	221	223	228	134	88	63	41
1991	25	105	146	162	164	168	167	155	161	112	70	47
1992	30	91	187	219	249	268	262	289	170	91	64	41
1993	25	71	174	284	398	398	374	315	379	287	120	78
1994	56	154	325	360	381	398	366	337	244	114	74	52
1995	39	176	219	319	413	410	378	314	361	402	156	86
1996	61	35	253	310	380	424	380	371	315	146	81	56
1997	36	212	402	472	402	418	427	391	248	98	65	41
1998	24	108	265	335	437	424	449	341	352	365	138	78
1999	53	209	327	362	411	427	383	314	306	145	80	55
2000	35	40	236	277	369	404	393	359	313	133	79	55
2001	35	163	255	287	305	311	297	302	218	102	67	44
2002	26	45	201	275	307	307	301	307	222	108	72	49
2003	29	66	231	296	344	323	278	232	280	139	77	53

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 60 Deg F Cold Water Pool Volume-Millerton Lake (TAF)
Alternative4 (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					347	347	334	266	205	283	247	219
1981	221	312	347	347	347	347	293	193	149	178	93	148
1982	159	248	347	347	347	347	328	272	272	304	249	216
1983	214	328	368	367	361	376	414	344	372	347	310	246
1984	203	279	370	365	372	367	352	262	236	212	127	191
1985	203	333	347	347	346	341	292	245	234	176	146	181
1986	172	271	347	347	345	321	270	258	262	250	224	227
1987	222	321	347	347	347	341	272	244	242	172	176	194
1988	185	204	347	347	347	321	262	247	237	228	152	158
1989	146	153	345	347	347	336	272	216	161	188	142	155
1990	144	171	347	347	347	328	270	244	221	195	126	139
1991	146	194	332	346	346	345	302	197	179	174	105	130
1992	117	108	347	347	345	316	250	202	141	164	132	143
1993	142	146	347	347	347	311	302	216	209	211	111	173
1994	198	284	347	347	347	325	258	225	218	153	154	159
1995	154	268	347	349	347	338	302	259	226	280	223	200
1996	205	241	347	347	341	316	261	245	217	189	110	167
1997	190	346	347	355	349	336	308	283	216	178	84	161
1998	178	265	347	347	347	319	293	247	231	187	172	194
1999	206	325	347	347	347	345	309	215	212	127	175	188
2000	189	210	347	347	346	313	246	204	219	183	93	155
2001	163	260	347	347	347	320	254	229	194	114	159	171
2002	151	124	347	347	345	333	257	216	192	123	164	174
2003	158	132	346	347	346	309	237	213	209	126	154	176

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Change in Average Simulated 60 Deg F Cold Water Pool Volume-Millerton Lake (TAF)
Alternative4 (2005) - Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					-76	-95	-123	-197	-170	-47	117	137
1981	160	134	-27	-54	-77	-95	-114	-189	-67	79	24	102
1982	129	79	98	-10	-63	-94	-129	-186	-149	15	130	133
1983	112	12	-71	-71	-65	-57	76	198	-32	-90	109	143
1984	129	134	-76	-76	-77	-83	-100	-112	-55	89	51	138
1985	163	116	34	-16	-43	-58	-101	-161	-20	63	74	129
1986	135	134	102	24	-46	-111	-187	-157	-165	16	117	153
1987	168	156	18	-13	-33	-60	-88	-123	-6	55	100	140
1988	152	127	164	116	83	67	9	-18	48	121	81	109
1989	116	80	189	163	144	118	29	-53	-8	89	73	108
1990	113	47	161	135	115	107	47	15	87	108	63	98
1991	122	89	186	183	182	177	134	42	18	62	35	84
1992	87	17	160	128	96	47	-13	-88	-30	73	68	101
1993	117	75	173	63	-51	-86	-71	-99	-170	-76	-9	95
1994	143	131	22	-13	-34	-73	-108	-113	-26	39	81	107
1995	115	92	128	30	-66	-72	-76	-55	-136	-122	67	114
1996	144	205	94	37	-38	-109	-119	-127	-98	43	29	111
1997	154	134	-54	-117	-52	-82	-119	-108	-33	80	19	120
1998	154	157	82	12	-90	-105	-155	-95	-120	-178	35	116
1999	153	115	20	-15	-64	-82	-74	-99	-94	-18	95	133
2000	155	170	111	70	-24	-91	-147	-155	-94	50	14	100
2001	128	97	92	60	42	9	-44	-73	-25	12	92	127
2002	124	79	146	72	37	26	-44	-91	-29	16	92	126
2003	129	66	115	51	2	-15	-41	-19	-71	-13	78	123

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Percent Change in Average Simulated 60 Deg F Cold Water Pool Volume-Millerton Lake (TAF)
From Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					-18%	-22%	-27%	-43%	-45%	-14%	89%	167%
1981	266%	75%	-7%	-13%	-18%	-21%	-28%	-49%	-31%	79%	36%	221%
1982	437%	46%	39%	-3%	-15%	-21%	-28%	-41%	-35%	5%	110%	161%
1983	111%	4%	-16%	-16%	-15%	-13%	23%	136%	-8%	-21%	54%	139%
1984	172%	92%	-17%	-17%	-17%	-19%	-22%	-30%	-19%	72%	66%	258%
1985	401%	54%	11%	-4%	-11%	-15%	-26%	-40%	-8%	56%	102%	245%
1986	371%	98%	42%	7%	-12%	-26%	-41%	-38%	-39%	7%	109%	208%
1987	309%	95%	5%	-4%	-9%	-15%	-25%	-34%	-2%	47%	132%	262%
1988	454%	164%	89%	50%	32%	26%	4%	-7%	25%	113%	115%	225%
1989	396%	109%	122%	88%	71%	54%	12%	-20%	-5%	90%	108%	232%
1990	372%	38%	87%	64%	50%	49%	21%	7%	65%	123%	100%	238%
1991	494%	84%	127%	113%	111%	106%	80%	27%	11%	55%	50%	179%
1992	288%	19%	86%	59%	39%	18%	-5%	-30%	-17%	80%	106%	244%
1993	474%	106%	100%	22%	-13%	-22%	-19%	-31%	-45%	-27%	-8%	121%
1994	256%	85%	7%	-4%	-9%	-18%	-29%	-33%	-11%	34%	110%	204%
1995	294%	53%	58%	9%	-16%	-17%	-20%	-18%	-38%	-30%	43%	132%
1996	237%	578%	37%	12%	-10%	-26%	-31%	-34%	-31%	29%	36%	199%
1997	425%	63%	-14%	-25%	-13%	-20%	-28%	-28%	-13%	81%	30%	293%
1998	632%	145%	31%	3%	-21%	-25%	-35%	-28%	-34%	-49%	25%	148%
1999	287%	55%	6%	-4%	-16%	-19%	-19%	-32%	-31%	-13%	119%	240%
2000	448%	426%	47%	25%	-6%	-23%	-38%	-43%	-30%	38%	17%	181%
2001	366%	60%	36%	21%	14%	3%	-15%	-24%	-11%	12%	137%	287%
2002	476%	173%	73%	26%	12%	8%	-15%	-30%	-13%	15%	128%	258%
2003	448%	100%	49%	17%	1%	-5%	-15%	-8%	-25%	-9%	101%	233%

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 60 Deg F Cold Water Pool Volume-Millerton Lake (TAF)
Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					423	442	457	464	375	330	131	82
1981	60	178	374	401	424	442	407	382	216	99	68	46
1982	30	170	249	357	410	441	457	457	421	289	119	83
1983	101	316	439	437	427	434	338	146	404	437	201	103
1984	75	145	446	441	449	450	453	374	291	123	76	53
1985	41	216	313	362	388	400	393	406	254	113	72	53
1986	37	137	245	323	391	432	457	415	426	235	107	74
1987	54	165	329	360	380	401	360	366	248	117	76	54
1988	33	77	183	231	263	254	253	265	189	107	71	49
1989	29	73	155	184	202	218	242	269	168	99	68	47
1990	30	124	186	212	231	221	223	228	134	88	63	41
1991	25	105	146	162	164	168	167	155	161	112	70	47
1992	30	91	187	219	249	268	262	289	170	91	64	41
1993	25	71	174	284	398	398	374	315	379	287	120	78
1994	56	154	325	360	381	398	366	337	244	114	74	52
1995	39	176	219	319	413	410	378	314	361	402	156	86
1996	61	35	253	310	380	424	380	371	315	146	81	56
1997	36	212	402	472	402	418	427	391	248	98	65	41
1998	24	108	265	335	437	424	449	341	352	365	138	78
1999	53	209	327	362	411	427	383	314	306	145	80	55
2000	35	40	236	277	369	404	393	359	313	133	79	55
2001	35	163	255	287	305	311	297	302	218	102	67	44
2002	26	45	201	275	307	307	301	307	222	108	72	49
2003	29	66	231	296	344	323	278	232	280	139	77	53

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 60 Deg F Cold Water Pool Volume-Millerton Lake (TAF)
Alternative5 (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					338	346	329	238	206	219	246	241
1981	203	328	346	346	346	346	286	213	197	155	58	24
1982	8	114	238	323	347	346	327	262	239	244	249	226
1983	158	287	346	347	356	373	408	345	374	350	314	254
1984	209	288	366	361	366	361	313	228	211	228	240	218
1985	126	269	346	346	344	337	285	237	231	196	83	44
1986	23	148	303	343	333	317	269	238	229	240	268	218
1987	113	212	346	346	346	338	265	234	238	184	79	43
1988	20	58	194	220	237	216	194	198	148	89	59	36
1989	17	52	106	121	131	147	172	204	132	84	56	33
1990	15	94	136	147	160	152	154	166	106	74	51	28
1991	12	70	96	98	92	97	96	85	110	85	43	15
1992	6	52	127	144	166	182	172	217	133	81	53	29
1993	13	47	119	210	330	327	326	232	225	232	165	76
1994	48	100	347	347	347	319	252	220	225	174	75	39
1995	20	178	242	315	347	340	309	247	217	224	242	210
1996	208	245	347	347	339	309	236	217	218	208	221	220
1997	199	346	347	291	314	330	272	252	212	196	222	220
1998	160	228	346	347	347	316	290	236	221	224	212	198
1999	202	327	346	346	346	342	306	208	208	222	227	174
2000	95	50	331	346	344	307	238	195	207	218	153	73
2001	47	116	346	346	346	316	248	227	210	144	58	26
2002	10	6	242	304	320	310	249	217	190	107	60	35
2003	14	50	244	293	332	293	204	165	227	135	56	25

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Change in Average Simulated 60 Deg F Cold Water Pool Volume-Millerton Lake (TAF)
Alternative5 (2005) - Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					-85	-96	-129	-226	-169	-111	116	159
1981	142	151	-28	-54	-78	-95	-121	-169	-19	57	-11	-22
1982	-22	-56	-11	-34	-63	-95	-129	-195	-182	-46	130	143
1983	56	-29	-93	-90	-71	-61	71	199	-30	-87	113	151
1984	134	144	-80	-80	-83	-90	-139	-146	-80	105	163	165
1985	85	53	34	-16	-44	-63	-108	-169	-24	83	10	-8
1986	-14	11	58	20	-57	-115	-188	-177	-197	6	161	144
1987	59	47	17	-14	-33	-63	-96	-132	-11	67	3	-11
1988	-14	-19	11	-11	-27	-38	-59	-67	-42	-18	-11	-13
1989	-12	-22	-49	-64	-71	-72	-70	-65	-36	-15	-12	-14
1990	-16	-30	-50	-65	-72	-69	-69	-63	-27	-14	-12	-13
1991	-13	-35	-50	-65	-72	-71	-72	-70	-51	-27	-27	-31
1992	-24	-39	-59	-75	-83	-86	-90	-72	-37	-10	-11	-12
1993	-12	-24	-54	-74	-68	-71	-48	-84	-154	-56	45	-3
1994	-8	-53	22	-14	-34	-79	-115	-118	-19	59	2	-13
1995	-19	2	23	-4	-66	-70	-69	-67	-144	-178	86	124
1996	147	210	94	37	-41	-116	-144	-154	-98	62	140	164
1997	162	134	-55	-181	-88	-88	-155	-138	-36	98	157	179
1998	136	119	82	11	-91	-108	-159	-106	-131	-141	74	119
1999	148	117	20	-16	-64	-84	-77	-107	-98	77	147	118
2000	60	10	95	70	-26	-97	-155	-164	-106	86	73	18
2001	12	-47	91	60	42	5	-49	-75	-8	42	-9	-18
2002	-16	-40	41	28	12	3	-52	-90	-31	-1	-12	-14
2003	-15	-16	13	-3	-12	-30	-75	-67	-53	-4	-21	-28

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Percent Change in Average Simulated 60 Deg F Cold Water Pool Volume-Millerton Lake (TAF)
From Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					-20%	-22%	-28%	-49%	-45%	-34%	89%	194%
1981	236%	85%	-7%	-14%	-18%	-22%	-30%	-44%	-9%	57%	-16%	-48%
1982	-73%	-33%	-4%	-10%	-15%	-21%	-28%	-43%	-43%	-16%	109%	173%
1983	55%	-9%	-21%	-21%	-17%	-14%	21%	136%	-7%	-20%	56%	146%
1984	179%	99%	-18%	-18%	-18%	-20%	-31%	-39%	-28%	85%	214%	309%
1985	210%	24%	11%	-4%	-11%	-16%	-27%	-42%	-9%	73%	14%	-15%
1986	-37%	8%	24%	6%	-15%	-27%	-41%	-43%	-46%	2%	150%	195%
1987	108%	29%	5%	-4%	-9%	-16%	-27%	-36%	-4%	57%	5%	-20%
1988	-41%	-25%	6%	-5%	-10%	-15%	-23%	-25%	-22%	-17%	-16%	-26%
1989	-42%	-30%	-32%	-34%	-35%	-33%	-29%	-24%	-21%	-15%	-17%	-30%
1990	-52%	-24%	-27%	-31%	-31%	-31%	-31%	-27%	-21%	-16%	-20%	-31%
1991	-51%	-34%	-34%	-40%	-44%	-42%	-43%	-45%	-32%	-24%	-39%	-67%
1992	-80%	-43%	-32%	-34%	-33%	-32%	-34%	-25%	-22%	-11%	-17%	-30%
1993	-49%	-33%	-31%	-26%	-17%	-18%	-13%	-27%	-41%	-19%	38%	-3%
1994	-14%	-35%	7%	-4%	-9%	-20%	-31%	-35%	-8%	52%	3%	-25%
1995	-49%	1%	10%	-1%	-16%	-17%	-18%	-21%	-40%	-44%	55%	144%
1996	241%	591%	37%	12%	-11%	-27%	-38%	-42%	-31%	42%	173%	294%
1997	449%	63%	-14%	-38%	-22%	-21%	-36%	-35%	-14%	100%	243%	438%
1998	558%	110%	31%	3%	-21%	-26%	-35%	-31%	-37%	-39%	54%	152%
1999	279%	56%	6%	-4%	-16%	-20%	-20%	-34%	-32%	53%	183%	214%
2000	175%	26%	40%	25%	-7%	-24%	-39%	-46%	-34%	65%	93%	33%
2001	34%	-29%	36%	21%	14%	2%	-17%	-25%	-4%	42%	-14%	-40%
2002	-62%	-87%	20%	10%	4%	1%	-17%	-29%	-14%	-1%	-17%	-29%
2003	-51%	-24%	5%	-1%	-3%	-9%	-27%	-29%	-19%	-3%	-27%	-53%

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 60 Deg F Cold Water Pool Volume-Millerton Lake (TAF)
No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					421	444	470	449	330	330	132	84
1981	62	180	373	391	419	443	405	376	214	99	68	46
1982	29	168	246	340	385	433	450	455	419	289	117	83
1983	102	315	437	435	424	432	314	137	404	433	201	101
1984	73	145	439	434	441	442	402	295	240	112	73	50
1985	39	221	295	331	352	365	352	364	228	106	70	52
1986	37	132	230	294	359	425	424	382	422	239	105	73
1987	54	169	313	330	343	365	329	339	227	109	72	51
1988	33	79	150	186	213	208	211	219	161	98	67	46
1989	27	72	151	166	177	195	228	258	162	97	68	46
1990	30	122	182	194	207	198	204	213	127	87	63	42
1991	25	108	143	145	141	151	151	141	154	111	70	46
1992	30	91	184	201	225	245	243	273	160	89	63	40
1993	24	71	171	268	389	430	388	278	334	271	115	76
1994	53	152	293	315	328	348	321	306	227	113	75	52
1995	36	201	251	351	438	441	367	264	341	401	156	86
1996	61	35	242	284	357	424	364	336	304	140	80	55
1997	35	211	393	467	397	413	386	348	227	92	59	35
1998	22	109	222	279	409	432	438	318	346	356	130	77
1999	52	209	314	336	377	394	338	268	275	134	78	53
2000	33	43	222	248	335	372	335	313	313	134	79	55
2001	35	162	246	263	274	282	268	277	212	100	66	43
2002	25	45	188	249	275	276	263	268	199	104	70	47
2003	28	77	219	270	311	294	249	201	259	134	76	52

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 60 Deg F Cold Water Pool Volume-Millerton Lake (TAF)
Alternative1 (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					347	347	326	235	203	220	250	248
1981	229	343	347	347	347	347	285	211	192	215	159	84
1982	50	53	347	347	347	347	326	264	239	247	260	245
1983	206	324	347	363	361	376	409	342	376	350	309	244
1984	213	289	370	365	370	363	315	232	213	230	244	228
1985	138	280	347	347	345	339	291	243	230	247	180	98
1986	65	161	347	347	345	319	270	240	232	254	277	261
1987	245	334	347	347	347	339	266	240	242	248	185	112
1988	88	84	347	347	347	316	259	241	234	228	154	111
1989	90	66	337	347	346	334	272	225	207	208	133	100
1990	79	87	347	347	347	327	271	244	220	216	155	113
1991	92	127	330	332	327	329	291	201	183	194	133	91
1992	68	47	347	347	345	314	250	216	199	185	120	92
1993	71	46	328	347	347	308	298	209	200	199	221	148
1994	75	141	347	347	347	318	250	219	220	219	158	102
1995	78	199	347	347	347	337	298	239	212	276	252	204
1996	203	235	347	347	341	311	237	223	238	203	221	223
1997	214	347	347	355	349	333	269	259	218	195	219	221
1998	166	225	347	347	347	315	285	238	225	224	210	200
1999	202	326	347	347	347	344	307	212	216	233	216	101
2000	55	19	276	347	344	307	238	197	216	226	163	80
2001	47	112	347	347	347	318	249	227	212	210	124	81
2002	59	34	283	347	344	330	252	213	206	206	138	90
2003	68	39	230	347	346	301	224	201	221	217	141	82

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Change in Average Simulated 60 Deg F Cold Water Pool Volume-Millerton Lake (TAF)
Alternative1 (2030) - No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					-74	-97	-144	-214	-126	-110	117	164
1981	167	163	-26	-44	-72	-97	-120	-164	-23	116	91	37
1982	21	-115	101	7	-38	-87	-124	-191	-180	-42	143	163
1983	104	8	-90	-73	-63	-56	95	205	-28	-83	108	143
1984	139	144	-69	-69	-71	-79	-87	-63	-28	118	171	178
1985	99	59	52	16	-7	-26	-62	-121	1	141	110	46
1986	28	29	117	53	-15	-106	-155	-143	-190	15	172	188
1987	191	165	34	17	4	-27	-63	-99	15	139	113	60
1988	56	5	196	160	134	108	49	21	74	131	86	65
1989	62	-6	186	181	169	140	44	-33	46	111	66	53
1990	49	-35	165	153	140	129	67	31	93	130	91	71
1991	66	19	187	187	186	178	140	60	29	84	64	44
1992	38	-44	163	145	120	69	7	-56	39	96	57	52
1993	47	-25	157	79	-42	-122	-89	-69	-134	-72	106	72
1994	22	-11	53	32	19	-30	-71	-87	-7	106	83	50
1995	42	-2	95	-4	-91	-103	-69	-25	-129	-124	96	118
1996	142	201	105	63	-17	-114	-127	-113	-66	63	141	168
1997	179	136	-46	-113	-48	-79	-118	-89	-9	102	160	186
1998	145	116	125	68	-63	-118	-153	-80	-122	-132	81	123
1999	150	117	33	11	-30	-50	-31	-57	-59	99	138	47
2000	22	-24	53	99	9	-65	-97	-115	-97	92	84	26
2001	12	-50	101	84	73	36	-19	-50	0	110	58	38
2002	34	-11	94	98	69	54	-11	-55	7	101	68	43
2003	40	-37	11	77	35	8	-25	0	-38	83	65	30

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Percent Change in Average Simulated 60 Deg F Cold Water Pool Volume-Millerton Lake (TAF)
From No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					-18%	-22%	-31%	-48%	-38%	-33%	89%	196%
1981	268%	90%	-7%	-11%	-17%	-22%	-30%	-44%	-11%	118%	132%	81%
1982	71%	-68%	41%	2%	-10%	-20%	-28%	-42%	-43%	-15%	122%	197%
1983	102%	3%	-21%	-17%	-15%	-13%	30%	149%	-7%	-19%	54%	142%
1984	190%	99%	-16%	-16%	-16%	-18%	-22%	-21%	-11%	106%	236%	354%
1985	254%	27%	18%	5%	-2%	-7%	-17%	-33%	1%	133%	158%	88%
1986	77%	22%	51%	18%	-4%	-25%	-36%	-37%	-45%	6%	164%	259%
1987	354%	98%	11%	5%	1%	-7%	-19%	-29%	6%	128%	155%	117%
1988	170%	6%	131%	86%	63%	52%	23%	10%	46%	134%	128%	143%
1989	228%	-8%	124%	110%	95%	72%	19%	-13%	28%	114%	97%	115%
1990	162%	-29%	91%	79%	68%	65%	33%	15%	73%	150%	144%	168%
1991	262%	18%	130%	129%	132%	118%	93%	42%	19%	75%	92%	96%
1992	128%	-48%	89%	72%	54%	28%	3%	-21%	24%	108%	91%	128%
1993	193%	-35%	92%	30%	-11%	-28%	-23%	-25%	-40%	-27%	92%	95%
1994	41%	-7%	18%	10%	6%	-9%	-22%	-28%	-3%	93%	111%	96%
1995	118%	-1%	38%	-1%	-21%	-23%	-19%	-9%	-38%	-31%	62%	138%
1996	235%	574%	43%	22%	-5%	-27%	-35%	-34%	-22%	45%	176%	306%
1997	505%	65%	-12%	-24%	-12%	-19%	-30%	-26%	-4%	111%	268%	531%
1998	666%	106%	56%	24%	-15%	-27%	-35%	-25%	-35%	-37%	62%	160%
1999	290%	56%	10%	3%	-8%	-13%	-9%	-21%	-22%	74%	178%	89%
2000	67%	-55%	24%	40%	3%	-17%	-29%	-37%	-31%	69%	107%	47%
2001	35%	-31%	41%	32%	27%	13%	-7%	-18%	0%	110%	89%	89%
2002	132%	-25%	50%	39%	25%	20%	-4%	-20%	4%	97%	97%	92%
2003	144%	-49%	5%	29%	11%	3%	-10%	0%	-15%	62%	86%	58%

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 60 Deg F Cold Water Pool Volume-Millerton Lake (TAF)
No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					421	444	470	449	330	330	132	84
1981	62	180	373	391	419	443	405	376	214	99	68	46
1982	29	168	246	340	385	433	450	455	419	289	117	83
1983	102	315	437	435	424	432	314	137	404	433	201	101
1984	73	145	439	434	441	442	402	295	240	112	73	50
1985	39	221	295	331	352	365	352	364	228	106	70	52
1986	37	132	230	294	359	425	424	382	422	239	105	73
1987	54	169	313	330	343	365	329	339	227	109	72	51
1988	33	79	150	186	213	208	211	219	161	98	67	46
1989	27	72	151	166	177	195	228	258	162	97	68	46
1990	30	122	182	194	207	198	204	213	127	87	63	42
1991	25	108	143	145	141	151	151	141	154	111	70	46
1992	30	91	184	201	225	245	243	273	160	89	63	40
1993	24	71	171	268	389	430	388	278	334	271	115	76
1994	53	152	293	315	328	348	321	306	227	113	75	52
1995	36	201	251	351	438	441	367	264	341	401	156	86
1996	61	35	242	284	357	424	364	336	304	140	80	55
1997	35	211	393	467	397	413	386	348	227	92	59	35
1998	22	109	222	279	409	432	438	318	346	356	130	77
1999	52	209	314	336	377	394	338	268	275	134	78	53
2000	33	43	222	248	335	372	335	313	313	134	79	55
2001	35	162	246	263	274	282	268	277	212	100	66	43
2002	25	45	188	249	275	276	263	268	199	104	70	47
2003	28	77	219	270	311	294	249	201	259	134	76	52

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 60 Deg F Cold Water Pool Volume-Millerton Lake (TAF)
Alternative2 (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					347	347	326	234	203	223	254	250
1981	235	344	347	347	347	347	285	211	191	216	167	88
1982	52	51	347	347	347	347	327	264	239	250	260	246
1983	208	325	347	364	361	376	409	341	376	347	307	246
1984	211	287	370	365	369	362	315	232	213	232	248	232
1985	151	299	347	347	345	339	292	243	229	246	190	104
1986	70	160	347	347	345	319	270	240	233	253	277	261
1987	247	335	347	347	347	339	266	240	242	248	189	114
1988	90	86	347	347	347	316	259	241	234	228	151	110
1989	89	65	339	347	346	334	272	224	207	210	138	101
1990	80	89	347	347	347	327	271	244	220	216	155	114
1991	92	130	334	336	330	332	295	202	182	195	136	92
1992	69	49	347	347	345	314	250	217	199	186	121	93
1993	71	47	329	347	347	308	298	209	201	202	227	150
1994	78	142	347	347	347	318	250	219	220	219	159	102
1995	79	199	347	347	347	337	298	239	212	279	254	205
1996	202	235	347	347	341	310	237	222	234	202	226	225
1997	221	347	347	355	349	333	267	256	217	195	224	225
1998	174	236	347	347	347	315	285	238	225	229	219	202
1999	204	327	347	347	347	344	307	211	216	235	219	108
2000	59	20	277	347	344	307	238	197	215	226	169	85
2001	50	113	347	347	347	318	249	227	212	211	127	82
2002	60	34	282	347	344	330	252	213	206	206	138	90
2003	68	39	230	347	346	301	224	201	221	217	143	83

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Change in Average Simulated 60 Deg F Cold Water Pool Volume-Millerton Lake (TAF)
Alternative2 (2030) - No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					-74	-97	-144	-215	-126	-107	122	166
1981	173	164	-26	-44	-72	-97	-120	-164	-23	117	98	42
1982	23	-117	101	7	-38	-87	-124	-191	-180	-39	143	164
1983	106	10	-90	-71	-63	-56	95	204	-28	-87	106	146
1984	138	142	-69	-69	-72	-80	-87	-63	-28	120	176	182
1985	111	78	52	16	-7	-26	-61	-121	1	141	120	52
1986	33	29	117	53	-15	-106	-154	-143	-189	14	172	189
1987	193	167	34	17	4	-27	-63	-99	15	139	117	62
1988	57	7	197	160	134	108	49	21	74	130	84	65
1989	62	-6	188	181	169	139	44	-33	46	113	70	55
1990	50	-33	165	153	140	129	67	31	93	129	92	72
1991	67	22	190	190	189	182	144	61	28	84	66	46
1992	39	-42	163	145	120	69	7	-56	39	97	58	52
1993	47	-24	159	79	-42	-122	-89	-69	-132	-69	112	74
1994	25	-10	54	32	19	-31	-71	-87	-7	106	84	50
1995	43	-2	96	-4	-91	-103	-69	-25	-129	-122	98	119
1996	141	200	105	63	-17	-114	-127	-114	-70	63	145	170
1997	186	136	-46	-113	-48	-80	-119	-92	-10	103	164	190
1998	152	127	125	68	-62	-118	-153	-80	-122	-127	90	125
1999	152	119	33	11	-30	-50	-31	-57	-60	102	141	54
2000	26	-23	55	99	9	-65	-97	-116	-98	92	90	31
2001	15	-49	101	84	73	36	-19	-50	0	112	61	39
2002	34	-11	94	98	69	54	-11	-55	7	101	68	43
2003	40	-37	11	77	35	8	-25	0	-38	83	68	31

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Percent Change in Average Simulated 60 Deg F Cold Water Pool Volume-Millerton Lake (TAF)
From No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					-18%	-22%	-31%	-48%	-38%	-32%	92%	198%
1981	279%	91%	-7%	-11%	-17%	-22%	-30%	-44%	-11%	118%	143%	90%
1982	78%	-70%	41%	2%	-10%	-20%	-27%	-42%	-43%	-13%	122%	198%
1983	104%	3%	-21%	-16%	-15%	-13%	30%	149%	-7%	-20%	53%	144%
1984	188%	98%	-16%	-16%	-16%	-18%	-22%	-21%	-12%	107%	242%	362%
1985	285%	35%	18%	5%	-2%	-7%	-17%	-33%	0%	133%	172%	100%
1986	90%	22%	51%	18%	-4%	-25%	-36%	-37%	-45%	6%	164%	260%
1987	358%	99%	11%	5%	1%	-7%	-19%	-29%	6%	128%	161%	121%
1988	174%	9%	131%	86%	63%	52%	23%	10%	46%	133%	125%	142%
1989	226%	-9%	125%	110%	95%	72%	19%	-13%	28%	116%	103%	119%
1990	167%	-27%	91%	79%	68%	65%	33%	15%	73%	149%	145%	170%
1991	265%	20%	133%	131%	134%	120%	95%	43%	18%	76%	96%	99%
1992	133%	-47%	89%	72%	54%	28%	3%	-21%	24%	109%	93%	129%
1993	196%	-34%	93%	30%	-11%	-28%	-23%	-25%	-40%	-25%	98%	98%
1994	46%	-7%	18%	10%	6%	-9%	-22%	-28%	-3%	94%	112%	97%
1995	120%	-1%	38%	-1%	-21%	-23%	-19%	-10%	-38%	-31%	63%	139%
1996	233%	573%	43%	22%	-5%	-27%	-35%	-34%	-23%	45%	181%	310%
1997	524%	65%	-12%	-24%	-12%	-19%	-31%	-26%	-4%	112%	276%	543%
1998	701%	116%	56%	24%	-15%	-27%	-35%	-25%	-35%	-36%	69%	163%
1999	294%	57%	10%	3%	-8%	-13%	-9%	-21%	-22%	76%	182%	102%
2000	80%	-53%	25%	40%	3%	-17%	-29%	-37%	-31%	69%	114%	56%
2001	43%	-30%	41%	32%	27%	13%	-7%	-18%	0%	112%	93%	91%
2002	134%	-25%	50%	39%	25%	20%	-4%	-20%	4%	97%	97%	92%
2003	143%	-49%	5%	29%	11%	3%	-10%	0%	-15%	62%	89%	61%

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 60 Deg F Cold Water Pool Volume-Millerton Lake (TAF)
No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					421	444	470	449	330	330	132	84
1981	62	180	373	391	419	443	405	376	214	99	68	46
1982	29	168	246	340	385	433	450	455	419	289	117	83
1983	102	315	437	435	424	432	314	137	404	433	201	101
1984	73	145	439	434	441	442	402	295	240	112	73	50
1985	39	221	295	331	352	365	352	364	228	106	70	52
1986	37	132	230	294	359	425	424	382	422	239	105	73
1987	54	169	313	330	343	365	329	339	227	109	72	51
1988	33	79	150	186	213	208	211	219	161	98	67	46
1989	27	72	151	166	177	195	228	258	162	97	68	46
1990	30	122	182	194	207	198	204	213	127	87	63	42
1991	25	108	143	145	141	151	151	141	154	111	70	46
1992	30	91	184	201	225	245	243	273	160	89	63	40
1993	24	71	171	268	389	430	388	278	334	271	115	76
1994	53	152	293	315	328	348	321	306	227	113	75	52
1995	36	201	251	351	438	441	367	264	341	401	156	86
1996	61	35	242	284	357	424	364	336	304	140	80	55
1997	35	211	393	467	397	413	386	348	227	92	59	35
1998	22	109	222	279	409	432	438	318	346	356	130	77
1999	52	209	314	336	377	394	338	268	275	134	78	53
2000	33	43	222	248	335	372	335	313	313	134	79	55
2001	35	162	246	263	274	282	268	277	212	100	66	43
2002	25	45	188	249	275	276	263	268	199	104	70	47
2003	28	77	219	270	311	294	249	201	259	134	76	52

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 60 Deg F Cold Water Pool Volume-Millerton Lake (TAF)
Alternative3 (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					347	347	326	234	196	201	229	245
1981	226	343	347	347	347	347	284	212	192	217	149	83
1982	57	68	347	347	347	347	326	263	242	252	259	247
1983	216	330	347	365	361	376	410	343	375	349	307	243
1984	214	291	370	365	370	363	315	232	215	238	250	218
1985	119	257	347	347	345	336	285	240	230	246	165	94
1986	68	165	347	347	345	318	268	239	233	260	276	261
1987	248	335	347	347	347	339	266	240	241	247	187	112
1988	89	84	347	347	347	316	259	240	234	228	153	111
1989	89	66	336	347	347	334	271	224	207	207	133	100
1990	79	87	347	347	347	327	270	243	220	216	155	113
1991	92	127	330	332	326	329	291	200	183	194	134	91
1992	68	47	347	347	345	314	250	216	199	185	120	92
1993	71	46	328	347	347	308	298	209	192	176	189	107
1994	68	142	347	347	347	319	248	215	216	213	152	97
1995	74	191	347	347	347	338	299	234	206	270	247	203
1996	207	245	347	347	341	311	234	217	224	203	223	220
1997	192	346	347	355	349	333	266	252	210	187	220	222
1998	152	215	347	347	347	315	288	232	219	216	210	205
1999	204	327	347	347	347	344	307	210	215	217	190	85
2000	55	26	277	347	344	305	233	195	215	220	138	73
2001	50	114	347	347	347	316	244	222	209	206	122	78
2002	56	31	272	347	343	324	245	207	204	202	133	87
2003	65	38	212	347	345	290	214	197	216	209	124	75

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Change in Average Simulated 60 Deg F Cold Water Pool Volume-Millerton Lake (TAF)
Alternative3 (2030) - No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					-74	-97	-144	-215	-133	-129	97	161
1981	164	163	-26	-44	-72	-97	-120	-164	-22	118	81	37
1982	27	-101	101	7	-38	-87	-124	-192	-177	-38	142	164
1983	114	14	-90	-70	-63	-56	95	206	-29	-84	106	142
1984	141	145	-69	-69	-71	-78	-87	-64	-25	126	177	168
1985	80	35	52	16	-7	-29	-67	-124	2	141	95	42
1986	31	33	117	53	-15	-107	-156	-143	-189	21	171	188
1987	194	167	34	17	4	-26	-63	-99	14	139	114	61
1988	56	5	196	160	134	108	48	21	73	130	86	65
1989	62	-6	186	181	169	140	43	-33	45	110	65	53
1990	49	-35	165	153	140	129	66	31	93	130	91	71
1991	66	19	187	187	185	178	140	59	29	84	64	45
1992	38	-44	163	146	120	69	7	-56	39	96	57	52
1993	47	-25	157	79	-42	-122	-89	-69	-142	-95	74	31
1994	14	-10	54	32	19	-29	-73	-91	-11	100	77	46
1995	38	-10	96	-4	-91	-103	-69	-30	-135	-131	91	117
1996	147	210	105	63	-17	-113	-130	-118	-80	64	143	165
1997	157	135	-45	-113	-48	-80	-120	-96	-17	95	161	187
1998	130	106	125	68	-62	-117	-151	-85	-128	-140	80	128
1999	153	118	33	11	-30	-50	-31	-58	-61	84	112	32
2000	22	-17	55	99	9	-67	-102	-118	-98	86	59	18
2001	15	-48	101	84	73	34	-24	-56	-4	106	56	35
2002	31	-14	83	98	68	48	-18	-60	5	97	63	40
2003	37	-39	-7	77	34	-3	-34	-5	-43	75	49	23

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Percent Change in Average Simulated 60 Deg F Cold Water Pool Volume-Millerton Lake (TAF)
From No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					-18%	-22%	-31%	-48%	-40%	-39%	73%	193%
1981	264%	90%	-7%	-11%	-17%	-22%	-30%	-44%	-10%	119%	118%	80%
1982	94%	-60%	41%	2%	-10%	-20%	-28%	-42%	-42%	-13%	121%	199%
1983	112%	5%	-21%	-16%	-15%	-13%	30%	150%	-7%	-19%	53%	141%
1984	192%	100%	-16%	-16%	-16%	-18%	-22%	-22%	-11%	112%	244%	334%
1985	205%	16%	18%	5%	-2%	-8%	-19%	-34%	1%	133%	136%	82%
1986	85%	25%	51%	18%	-4%	-25%	-37%	-38%	-45%	9%	163%	259%
1987	359%	99%	11%	5%	1%	-7%	-19%	-29%	6%	127%	158%	118%
1988	171%	7%	131%	86%	63%	52%	23%	9%	46%	133%	127%	143%
1989	227%	-8%	123%	110%	95%	72%	19%	-13%	28%	114%	97%	115%
1990	162%	-29%	91%	79%	68%	65%	32%	14%	73%	150%	144%	168%
1991	263%	18%	130%	129%	132%	118%	93%	42%	19%	75%	92%	96%
1992	128%	-48%	89%	72%	54%	28%	3%	-21%	24%	108%	91%	128%
1993	194%	-35%	92%	30%	-11%	-28%	-23%	-25%	-42%	-35%	65%	42%
1994	27%	-6%	18%	10%	6%	-8%	-23%	-30%	-5%	88%	103%	88%
1995	107%	-5%	38%	-1%	-21%	-23%	-19%	-11%	-40%	-33%	59%	137%
1996	242%	602%	43%	22%	-5%	-27%	-36%	-35%	-26%	46%	178%	301%
1997	443%	64%	-12%	-24%	-12%	-19%	-31%	-28%	-7%	104%	270%	534%
1998	600%	97%	56%	24%	-15%	-27%	-34%	-27%	-37%	-39%	62%	167%
1999	294%	57%	10%	3%	-8%	-13%	-9%	-22%	-22%	62%	144%	59%
2000	67%	-40%	25%	40%	3%	-18%	-31%	-38%	-31%	64%	75%	34%
2001	44%	-30%	41%	32%	27%	12%	-9%	-20%	-2%	106%	85%	82%
2002	121%	-31%	44%	39%	25%	17%	-7%	-22%	2%	93%	90%	85%
2003	132%	-51%	-3%	29%	11%	-1%	-14%	-2%	-16%	56%	65%	45%

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 60 Deg F Cold Water Pool Volume-Millerton Lake (TAF)
No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					421	444	470	449	330	330	132	84
1981	62	180	373	391	419	443	405	376	214	99	68	46
1982	29	168	246	340	385	433	450	455	419	289	117	83
1983	102	315	437	435	424	432	314	137	404	433	201	101
1984	73	145	439	434	441	442	402	295	240	112	73	50
1985	39	221	295	331	352	365	352	364	228	106	70	52
1986	37	132	230	294	359	425	424	382	422	239	105	73
1987	54	169	313	330	343	365	329	339	227	109	72	51
1988	33	79	150	186	213	208	211	219	161	98	67	46
1989	27	72	151	166	177	195	228	258	162	97	68	46
1990	30	122	182	194	207	198	204	213	127	87	63	42
1991	25	108	143	145	141	151	151	141	154	111	70	46
1992	30	91	184	201	225	245	243	273	160	89	63	40
1993	24	71	171	268	389	430	388	278	334	271	115	76
1994	53	152	293	315	328	348	321	306	227	113	75	52
1995	36	201	251	351	438	441	367	264	341	401	156	86
1996	61	35	242	284	357	424	364	336	304	140	80	55
1997	35	211	393	467	397	413	386	348	227	92	59	35
1998	22	109	222	279	409	432	438	318	346	356	130	77
1999	52	209	314	336	377	394	338	268	275	134	78	53
2000	33	43	222	248	335	372	335	313	313	134	79	55
2001	35	162	246	263	274	282	268	277	212	100	66	43
2002	25	45	188	249	275	276	263	268	199	104	70	47
2003	28	77	219	270	311	294	249	201	259	134	76	52

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 60 Deg F Cold Water Pool Volume-Millerton Lake (TAF)
Alternative4 (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					347	347	334	266	209	244	231	226
1981	225	321	347	347	347	347	292	217	198	155	96	159
1982	162	237	347	347	347	347	327	272	248	253	234	226
1983	221	326	366	367	361	376	411	343	370	344	307	250
1984	204	279	370	365	370	365	317	240	224	201	105	180
1985	192	314	347	347	346	341	294	247	230	164	164	184
1986	164	263	347	347	345	321	271	254	254	254	226	227
1987	223	322	347	347	347	341	273	245	243	165	173	191
1988	184	206	347	347	347	321	264	248	238	224	145	155
1989	144	155	338	347	347	336	274	222	181	196	137	153
1990	141	169	347	347	347	328	272	245	220	187	124	138
1991	146	197	329	330	325	327	293	203	181	176	107	133
1992	117	109	347	347	345	316	250	202	145	160	117	136
1993	136	138	345	347	347	311	302	217	203	195	185	212
1994	209	274	347	347	347	322	254	217	192	139	152	156
1995	150	264	347	347	347	338	301	250	206	274	217	198
1996	203	235	347	347	341	313	241	226	210	187	100	167
1997	189	345	347	355	349	335	273	256	208	170	78	159
1998	176	261	347	347	347	319	292	220	202	169	169	192
1999	206	325	347	347	347	345	309	207	200	147	169	182
2000	188	205	347	347	346	312	244	199	216	167	85	148
2001	157	255	347	347	347	320	253	222	183	125	157	160
2002	143	117	347	347	345	332	256	195	160	121	162	166
2003	151	116	345	347	346	308	234	212	196	121	161	171

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Change in Average Simulated 60 Deg F Cold Water Pool Volume-Millerton Lake (TAF)
Alternative4 (2030) - No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					-74	-97	-136	-183	-121	-86	98	142
1981	163	140	-26	-44	-72	-97	-113	-159	-16	56	27	113
1982	132	69	101	7	-38	-87	-123	-183	-171	-36	117	144
1983	119	11	-71	-69	-63	-56	96	205	-34	-89	106	149
1984	130	134	-69	-69	-71	-77	-85	-55	-16	89	33	129
1985	153	93	52	16	-6	-24	-59	-117	2	58	94	132
1986	128	132	117	53	-14	-104	-153	-128	-168	14	121	154
1987	169	153	34	17	4	-24	-56	-94	15	56	101	140
1988	152	128	197	160	133	113	53	29	77	126	78	109
1989	117	83	187	181	169	141	46	-36	19	99	69	106
1990	111	47	165	153	140	130	68	32	93	100	61	96
1991	121	89	185	185	184	177	143	62	27	65	37	86
1992	87	18	163	146	120	71	8	-70	-15	71	54	96
1993	112	67	175	79	-42	-119	-85	-60	-131	-76	70	136
1994	156	122	54	32	19	-27	-67	-89	-35	26	77	104
1995	115	63	96	-4	-91	-102	-66	-14	-135	-127	62	113
1996	142	200	105	63	-16	-111	-123	-110	-94	47	20	112
1997	153	135	-45	-112	-47	-78	-113	-92	-19	78	19	124
1998	155	151	125	68	-62	-114	-146	-97	-144	-186	40	115
1999	154	116	33	11	-30	-49	-30	-61	-75	13	91	129
2000	155	162	125	99	11	-60	-91	-114	-97	33	6	93
2001	122	93	101	84	73	38	-16	-55	-29	25	91	117
2002	118	72	159	98	70	56	-7	-73	-39	17	91	119
2003	123	39	127	77	35	14	-14	10	-63	-13	85	119

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Percent Change in Average Simulated 60 Deg F Cold Water Pool Volume-Millerton Lake (TAF)
From No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					-18%	-22%	-29%	-41%	-37%	-26%	74%	170%
1981	262%	78%	-7%	-11%	-17%	-22%	-28%	-42%	-8%	57%	40%	244%
1982	452%	41%	41%	2%	-10%	-20%	-27%	-40%	-41%	-13%	100%	174%
1983	117%	3%	-16%	-16%	-15%	-13%	31%	150%	-8%	-21%	53%	148%
1984	178%	92%	-16%	-16%	-16%	-17%	-21%	-19%	-7%	79%	45%	258%
1985	390%	42%	18%	5%	-2%	-7%	-17%	-32%	1%	55%	135%	254%
1986	348%	100%	51%	18%	-4%	-25%	-36%	-34%	-40%	6%	115%	213%
1987	314%	91%	11%	5%	1%	-7%	-17%	-28%	7%	52%	139%	271%
1988	463%	163%	131%	86%	63%	54%	25%	13%	48%	129%	116%	240%
1989	428%	116%	124%	109%	95%	72%	20%	-14%	12%	102%	102%	230%
1990	370%	39%	91%	79%	68%	66%	33%	15%	73%	116%	96%	227%
1991	478%	83%	129%	127%	131%	117%	95%	44%	17%	59%	53%	187%
1992	293%	19%	89%	72%	54%	29%	3%	-26%	-9%	80%	87%	238%
1993	466%	95%	102%	30%	-11%	-28%	-22%	-22%	-39%	-28%	61%	180%
1994	293%	80%	18%	10%	6%	-8%	-21%	-29%	-15%	23%	103%	202%
1995	321%	31%	38%	-1%	-21%	-23%	-18%	-5%	-40%	-32%	40%	132%
1996	235%	572%	43%	22%	-4%	-26%	-34%	-33%	-31%	34%	25%	204%
1997	433%	64%	-12%	-24%	-12%	-19%	-29%	-27%	-8%	85%	32%	355%
1998	712%	139%	56%	24%	-15%	-26%	-33%	-31%	-42%	-52%	31%	150%
1999	297%	56%	10%	3%	-8%	-12%	-9%	-23%	-27%	10%	117%	242%
2000	471%	378%	56%	40%	3%	-16%	-27%	-36%	-31%	25%	7%	171%
2001	353%	57%	41%	32%	27%	13%	-6%	-20%	-14%	25%	139%	273%
2002	463%	159%	84%	39%	25%	20%	-3%	-27%	-19%	16%	131%	254%
2003	443%	51%	58%	29%	11%	5%	-6%	5%	-24%	-10%	113%	230%

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 52 Deg F Cold Water Pool Volume-Temp Flat Reservoir (TAF)
Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					0	0	0	0	0	0	0	0
1981	0	0	0	0	0	0	0	0	0	0	0	0
1982	0	0	0	0	0	0	0	0	0	0	0	0
1983	0	0	0	0	0	0	0	0	0	0	0	0
1984	0	0	0	0	0	0	0	0	0	0	0	0
1985	0	0	0	0	0	0	0	0	0	0	0	0
1986	0	0	0	0	0	0	0	0	0	0	0	0
1987	0	0	0	0	0	0	0	0	0	0	0	0
1988	0	0	0	0	0	0	0	0	0	0	0	0
1989	0	0	0	0	0	0	0	0	0	0	0	0
1990	0	0	0	0	0	0	0	0	0	0	0	0
1991	0	0	0	0	0	0	0	0	0	0	0	0
1992	0	0	0	0	0	0	0	0	0	0	0	0
1993	0	0	0	0	0	0	0	0	0	0	0	0
1994	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0	0	0	0	0	0
2002	0	0	0	0	0	0	0	0	0	0	0	0
2003	0	0	0	0	0	0	0	0	0	0	0	0

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 52 Deg F Cold Water Pool Volume-Temp Flat Reservoir (TAF)
Alternative1 (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					633	898	919	898	552	181	84	64
1981	57	56	53	53	140	313	402	352	171	75	52	50
1982	49	47	46	317	523	596	721	892	599	223	95	67
1983	61	60	61	224	517	800	974	1009	1003	732	260	108
1984	75	69	70	193	371	562	676	623	371	151	71	57
1985	53	52	46	49	169	353	387	341	179	78	56	55
1986	53	50	46	228	456	771	907	927	525	209	94	67
1987	61	60	58	54	88	260	342	289	155	81	63	62
1988	62	61	58	246	299	279	280	241	142	85	76	74
1989	72	70	74	230	248	239	233	219	130	83	75	72
1990	69	67	69	209	278	243	246	214	131	88	80	76
1991	74	72	95	208	187	178	173	124	85	70	65	61
1992	59	55	52	233	283	267	265	223	134	83	74	72
1993	70	67	67	328	445	468	479	457	358	127	69	60
1994	58	57	51	56	167	338	340	270	147	82	69	67
1995	64	59	71	360	535	630	724	803	511	168	79	66
1996	60	59	59	60	181	468	581	386	162	88	60	52
1997	50	49	49	479	919	1098	1051	779	410	169	78	61
1998	57	57	53	79	327	561	697	576	312	101	66	56
1999	53	52	49	64	238	427	458	329	152	75	55	50
2000	49	48	45	57	160	315	346	225	103	65	56	53
2001	52	50	44	73	211	320	285	169	95	72	64	63
2002	61	60	54	229	332	307	276	228	122	76	68	66
2003	64	62	58	144	314	312	251	164	89	68	61	58

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Change in Average Simulated 52 Deg F Cold Water Pool Volume-Temp Flat Reservoir (TAF)
Alternative1 (2005) - Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					633	898	919	898	552	181	84	64
1981	57	56	53	53	140	313	402	352	171	75	52	50
1982	49	47	46	317	523	596	721	892	599	223	95	67
1983	61	60	61	224	517	800	974	1009	1003	732	260	108
1984	75	69	70	193	371	562	676	623	371	151	71	57
1985	53	52	46	49	169	353	387	341	179	78	56	55
1986	53	50	46	228	456	771	907	927	525	209	94	67
1987	61	60	58	54	88	260	342	289	155	81	63	62
1988	62	61	58	246	299	279	280	241	142	85	76	74
1989	72	70	74	230	248	239	233	219	130	83	75	72
1990	69	67	69	209	278	243	246	214	131	88	80	76
1991	74	72	95	208	187	178	173	124	85	70	65	61
1992	59	55	52	233	283	267	265	223	134	83	74	72
1993	70	67	67	328	445	468	479	457	358	127	69	60
1994	58	57	51	56	167	338	340	270	147	82	69	67
1995	64	59	71	360	535	630	724	803	511	168	79	66
1996	60	59	59	60	181	468	581	386	162	88	60	52
1997	50	49	49	479	919	1098	1051	779	410	169	78	61
1998	57	57	53	79	327	561	697	576	312	101	66	56
1999	53	52	49	64	238	427	458	329	152	75	55	50
2000	49	48	45	57	160	315	346	225	103	65	56	53
2001	52	50	44	73	211	320	285	169	95	72	64	63
2002	61	60	54	229	332	307	276	228	122	76	68	66
2003	64	62	58	144	314	312	251	164	89	68	61	58

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Percent Change in Average Simulated 52 Deg F Cold Water Pool Volume-Temp Flat Reservoir (TAF)
From Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					0%	0%	0%	0%	0%	0%	0%	0%
1981	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1982	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1983	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1984	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1985	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1986	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1987	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1988	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1989	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1990	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1991	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1992	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1993	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1994	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1995	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1996	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1997	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1998	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1999	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
2000	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
2001	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
2002	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
2003	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 52 Deg F Cold Water Pool Volume-Temp Flat Reservoir (TAF)
Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					0	0	0	0	0	0	0	0
1981	0	0	0	0	0	0	0	0	0	0	0	0
1982	0	0	0	0	0	0	0	0	0	0	0	0
1983	0	0	0	0	0	0	0	0	0	0	0	0
1984	0	0	0	0	0	0	0	0	0	0	0	0
1985	0	0	0	0	0	0	0	0	0	0	0	0
1986	0	0	0	0	0	0	0	0	0	0	0	0
1987	0	0	0	0	0	0	0	0	0	0	0	0
1988	0	0	0	0	0	0	0	0	0	0	0	0
1989	0	0	0	0	0	0	0	0	0	0	0	0
1990	0	0	0	0	0	0	0	0	0	0	0	0
1991	0	0	0	0	0	0	0	0	0	0	0	0
1992	0	0	0	0	0	0	0	0	0	0	0	0
1993	0	0	0	0	0	0	0	0	0	0	0	0
1994	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0	0	0	0	0	0
2002	0	0	0	0	0	0	0	0	0	0	0	0
2003	0	0	0	0	0	0	0	0	0	0	0	0

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 52 Deg F Cold Water Pool Volume-Temp Flat Reservoir (TAF)
Alternative2 (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					636	887	907	874	529	170	81	63
1981	57	56	52	52	140	314	406	369	187	80	54	52
1982	51	49	46	310	529	600	725	900	609	228	98	68
1983	62	61	61	225	519	802	975	1010	1003	732	262	109
1984	76	69	70	193	371	563	678	626	375	154	72	57
1985	54	53	46	50	169	354	385	342	182	82	58	56
1986	56	53	48	220	448	771	914	935	532	210	91	66
1987	61	60	57	53	90	266	343	281	153	83	64	63
1988	63	62	59	247	303	283	282	246	144	85	76	73
1989	72	70	74	230	250	241	235	219	131	83	75	72
1990	69	67	69	204	280	244	247	213	131	88	80	77
1991	75	72	94	210	189	179	175	124	85	69	64	61
1992	59	55	52	233	284	269	264	223	135	83	74	72
1993	70	67	67	329	447	470	478	459	350	122	68	59
1994	58	56	50	59	175	333	335	264	143	82	70	68
1995	65	59	71	363	538	631	723	802	507	167	79	65
1996	59	58	58	59	179	464	588	394	168	88	60	52
1997	50	49	49	494	935	1104	1056	787	416	167	76	60
1998	57	57	52	82	338	564	691	579	325	104	67	57
1999	53	53	50	65	238	429	465	343	160	77	56	51
2000	49	49	46	55	151	311	334	225	105	65	56	53
2001	51	50	44	65	198	322	292	176	96	72	64	62
2002	61	60	54	221	335	308	278	229	123	76	67	65
2003	63	62	57	142	313	314	251	163	90	69	61	58

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Change in Average Simulated 52 Deg F Cold Water Pool Volume-Temp Flat Reservoir (TAF)
Alternative2 (2005) - Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					636	887	907	874	529	170	81	63
1981	57	56	52	52	140	314	406	369	187	80	54	52
1982	51	49	46	310	529	600	725	900	609	228	98	68
1983	62	61	61	225	519	802	975	1010	1003	732	262	109
1984	76	69	70	193	371	563	678	626	375	154	72	57
1985	54	53	46	50	169	354	385	342	182	82	58	56
1986	56	53	48	220	448	771	914	935	532	210	91	66
1987	61	60	57	53	90	266	343	281	153	83	64	63
1988	63	62	59	247	303	283	282	246	144	85	76	73
1989	72	70	74	230	250	241	235	219	131	83	75	72
1990	69	67	69	204	280	244	247	213	131	88	80	77
1991	75	72	94	210	189	179	175	124	85	69	64	61
1992	59	55	52	233	284	269	264	223	135	83	74	72
1993	70	67	67	329	447	470	478	459	350	122	68	59
1994	58	56	50	59	175	333	335	264	143	82	70	68
1995	65	59	71	363	538	631	723	802	507	167	79	65
1996	59	58	58	59	179	464	588	394	168	88	60	52
1997	50	49	49	494	935	1104	1056	787	416	167	76	60
1998	57	57	52	82	338	564	691	579	325	104	67	57
1999	53	53	50	65	238	429	465	343	160	77	56	51
2000	49	49	46	55	151	311	334	225	105	65	56	53
2001	51	50	44	65	198	322	292	176	96	72	64	62
2002	61	60	54	221	335	308	278	229	123	76	67	65
2003	63	62	57	142	313	314	251	163	90	69	61	58

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Percent Change in Average Simulated 52 Deg F Cold Water Pool Volume-Temp Flat Reservoir (TAF)
From Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					0%	0%	0%	0%	0%	0%	0%	0%
1981	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1982	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1983	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1984	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1985	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1986	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1987	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1988	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1989	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1990	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1991	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1992	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1993	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1994	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1995	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1996	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1997	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1998	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1999	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
2000	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
2001	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
2002	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
2003	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 52 Deg F Cold Water Pool Volume-Temp Flat Reservoir (TAF)
Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					0	0	0	0	0	0	0	0
1981	0	0	0	0	0	0	0	0	0	0	0	0
1982	0	0	0	0	0	0	0	0	0	0	0	0
1983	0	0	0	0	0	0	0	0	0	0	0	0
1984	0	0	0	0	0	0	0	0	0	0	0	0
1985	0	0	0	0	0	0	0	0	0	0	0	0
1986	0	0	0	0	0	0	0	0	0	0	0	0
1987	0	0	0	0	0	0	0	0	0	0	0	0
1988	0	0	0	0	0	0	0	0	0	0	0	0
1989	0	0	0	0	0	0	0	0	0	0	0	0
1990	0	0	0	0	0	0	0	0	0	0	0	0
1991	0	0	0	0	0	0	0	0	0	0	0	0
1992	0	0	0	0	0	0	0	0	0	0	0	0
1993	0	0	0	0	0	0	0	0	0	0	0	0
1994	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0	0	0	0	0	0
2002	0	0	0	0	0	0	0	0	0	0	0	0
2003	0	0	0	0	0	0	0	0	0	0	0	0

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 52 Deg F Cold Water Pool Volume-Temp Flat Reservoir (TAF)
Alternative3 (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					625	833	818	748	437	137	68	55
1981	52	51	48	48	145	330	405	351	179	73	56	55
1982	53	51	48	320	494	570	649	758	524	185	82	63
1983	60	59	59	232	528	809	977	1010	1002	731	261	109
1984	75	69	70	193	371	563	663	547	278	98	60	52
1985	50	49	43	51	197	371	363	296	150	72	58	57
1986	56	52	50	240	452	742	839	824	464	157	76	63
1987	60	59	55	52	101	284	342	270	146	80	65	64
1988	64	63	61	248	275	256	258	214	126	85	77	74
1989	72	71	75	208	216	212	217	211	129	83	76	72
1990	70	68	71	216	248	218	223	200	127	87	78	75
1991	73	71	95	203	181	172	162	114	82	66	62	59
1992	57	52	51	217	252	238	241	202	125	83	76	73
1993	70	68	73	307	418	440	398	307	205	81	59	53
1994	52	51	46	107	275	337	309	242	133	82	72	70
1995	66	60	73	368	506	601	650	679	491	165	77	64
1996	58	57	57	58	173	452	558	343	142	76	55	49
1997	48	47	48	520	974	1112	1059	782	406	149	71	58
1998	56	55	51	82	341	561	645	526	295	99	66	58
1999	54	53	50	63	229	418	422	247	105	61	49	45
2000	44	44	41	60	224	364	345	201	96	64	57	55
2001	53	51	45	83	218	304	262	147	91	72	65	64
2002	62	61	56	227	311	285	253	194	110	76	69	66
2003	64	62	59	149	298	296	230	146	84	67	61	59

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Change in Average Simulated 52 Deg F Cold Water Pool Volume-Temp Flat Reservoir (TAF)
Alternative3 (2005) - Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					625	833	818	748	437	137	68	55
1981	52	51	48	48	145	330	405	351	179	73	56	55
1982	53	51	48	320	494	570	649	758	524	185	82	63
1983	60	59	59	232	528	809	977	1010	1002	731	261	109
1984	75	69	70	193	371	563	663	547	278	98	60	52
1985	50	49	43	51	197	371	363	296	150	72	58	57
1986	56	52	50	240	452	742	839	824	464	157	76	63
1987	60	59	55	52	101	284	342	270	146	80	65	64
1988	64	63	61	248	275	256	258	214	126	85	77	74
1989	72	71	75	208	216	212	217	211	129	83	76	72
1990	70	68	71	216	248	218	223	200	127	87	78	75
1991	73	71	95	203	181	172	162	114	82	66	62	59
1992	57	52	51	217	252	238	241	202	125	83	76	73
1993	70	68	73	307	418	440	398	307	205	81	59	53
1994	52	51	46	107	275	337	309	242	133	82	72	70
1995	66	60	73	368	506	601	650	679	491	165	77	64
1996	58	57	57	58	173	452	558	343	142	76	55	49
1997	48	47	48	520	974	1112	1059	782	406	149	71	58
1998	56	55	51	82	341	561	645	526	295	99	66	58
1999	54	53	50	63	229	418	422	247	105	61	49	45
2000	44	44	41	60	224	364	345	201	96	64	57	55
2001	53	51	45	83	218	304	262	147	91	72	65	64
2002	62	61	56	227	311	285	253	194	110	76	69	66
2003	64	62	59	149	298	296	230	146	84	67	61	59

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Percent Change in Average Simulated 52 Deg F Cold Water Pool Volume-Temp Flat Reservoir (TAF)
From Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					0%	0%	0%	0%	0%	0%	0%	0%
1981	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1982	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1983	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1984	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1985	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1986	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1987	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1988	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1989	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1990	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1991	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1992	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1993	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1994	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1995	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1996	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1997	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1998	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1999	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
2000	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
2001	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
2002	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
2003	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 52 Deg F Cold Water Pool Volume-Temp Flat Reservoir (TAF)
Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					0	0	0	0	0	0	0	0
1981	0	0	0	0	0	0	0	0	0	0	0	0
1982	0	0	0	0	0	0	0	0	0	0	0	0
1983	0	0	0	0	0	0	0	0	0	0	0	0
1984	0	0	0	0	0	0	0	0	0	0	0	0
1985	0	0	0	0	0	0	0	0	0	0	0	0
1986	0	0	0	0	0	0	0	0	0	0	0	0
1987	0	0	0	0	0	0	0	0	0	0	0	0
1988	0	0	0	0	0	0	0	0	0	0	0	0
1989	0	0	0	0	0	0	0	0	0	0	0	0
1990	0	0	0	0	0	0	0	0	0	0	0	0
1991	0	0	0	0	0	0	0	0	0	0	0	0
1992	0	0	0	0	0	0	0	0	0	0	0	0
1993	0	0	0	0	0	0	0	0	0	0	0	0
1994	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0	0	0	0	0	0
2002	0	0	0	0	0	0	0	0	0	0	0	0
2003	0	0	0	0	0	0	0	0	0	0	0	0

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 52 Deg F Cold Water Pool Volume-Temp Flat Reservoir (TAF)
Alternative4 (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					751	981	997	1001	792	572	548	346
1981	141	96	86	85	201	390	480	524	499	381	312	184
1982	111	92	79	371	639	698	815	1011	868	621	579	370
1983	167	104	91	266	567	848	998	1050	1112	872	591	386
1984	214	126	97	229	415	596	713	727	659	604	537	300
1985	129	88	73	83	247	437	469	467	405	347	255	131
1986	95	87	74	228	489	875	1002	1001	789	618	581	381
1987	176	106	94	91	157	347	422	403	360	317	223	125
1988	95	91	82	259	399	374	377	337	252	198	174	117
1989	99	95	88	204	355	333	317	318	282	208	176	116
1990	98	92	86	136	343	339	325	290	232	195	177	129
1991	102	96	91	174	260	254	245	176	149	137	131	96
1992	88	80	64	225	374	361	352	349	323	233	188	128
1993	100	93	83	316	534	566	567	579	593	521	492	304
1994	141	98	86	110	244	416	431	397	352	307	220	130
1995	96	86	86	340	622	719	788	867	775	469	448	286
1996	122	93	89	89	227	518	627	554	521	493	471	303
1997	138	93	88	557	1033	1122	1063	873	674	613	571	385
1998	200	118	96	148	446	648	775	740	610	431	427	263
1999	112	90	85	104	309	499	502	403	399	379	307	155
2000	89	81	72	81	223	393	406	342	304	285	261	142
2001	90	81	70	70	178	372	375	296	270	251	189	115
2002	92	88	73	161	336	357	352	372	332	289	207	123
2003	94	88	79	85	218	311	299	241	199	191	161	97

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Change in Average Simulated 52 Deg F Cold Water Pool Volume-Temp Flat Reservoir (TAF)
Alternative4 (2005) - Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					751	981	997	1001	792	572	548	346
1981	141	96	86	85	201	390	480	524	499	381	312	184
1982	111	92	79	371	639	698	815	1011	868	621	579	370
1983	167	104	91	266	567	848	998	1050	1112	872	591	386
1984	214	126	97	229	415	596	713	727	659	604	537	300
1985	129	88	73	83	247	437	469	467	405	347	255	131
1986	95	87	74	228	489	875	1002	1001	789	618	581	381
1987	176	106	94	91	157	347	422	403	360	317	223	125
1988	95	91	82	259	399	374	377	337	252	198	174	117
1989	99	95	88	204	355	333	317	318	282	208	176	116
1990	98	92	86	136	343	339	325	290	232	195	177	129
1991	102	96	91	174	260	254	245	176	149	137	131	96
1992	88	80	64	225	374	361	352	349	323	233	188	128
1993	100	93	83	316	534	566	567	579	593	521	492	304
1994	141	98	86	110	244	416	431	397	352	307	220	130
1995	96	86	86	340	622	719	788	867	775	469	448	286
1996	122	93	89	89	227	518	627	554	521	493	471	303
1997	138	93	88	557	1033	1122	1063	873	674	613	571	385
1998	200	118	96	148	446	648	775	740	610	431	427	263
1999	112	90	85	104	309	499	502	403	399	379	307	155
2000	89	81	72	81	223	393	406	342	304	285	261	142
2001	90	81	70	70	178	372	375	296	270	251	189	115
2002	92	88	73	161	336	357	352	372	332	289	207	123
2003	94	88	79	85	218	311	299	241	199	191	161	97

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Percent Change in Average Simulated 52 Deg F Cold Water Pool Volume-Temp Flat Reservoir (TAF)
From Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					0%	0%	0%	0%	0%	0%	0%	0%
1981	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1982	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1983	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1984	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1985	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1986	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1987	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1988	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1989	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1990	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1991	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1992	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1993	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1994	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1995	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1996	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1997	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1998	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1999	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
2000	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
2001	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
2002	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
2003	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 52 Deg F Cold Water Pool Volume-Temp Flat Reservoir (TAF)
Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					0	0	0	0	0	0	0	0
1981	0	0	0	0	0	0	0	0	0	0	0	0
1982	0	0	0	0	0	0	0	0	0	0	0	0
1983	0	0	0	0	0	0	0	0	0	0	0	0
1984	0	0	0	0	0	0	0	0	0	0	0	0
1985	0	0	0	0	0	0	0	0	0	0	0	0
1986	0	0	0	0	0	0	0	0	0	0	0	0
1987	0	0	0	0	0	0	0	0	0	0	0	0
1988	0	0	0	0	0	0	0	0	0	0	0	0
1989	0	0	0	0	0	0	0	0	0	0	0	0
1990	0	0	0	0	0	0	0	0	0	0	0	0
1991	0	0	0	0	0	0	0	0	0	0	0	0
1992	0	0	0	0	0	0	0	0	0	0	0	0
1993	0	0	0	0	0	0	0	0	0	0	0	0
1994	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0	0	0	0	0	0
2002	0	0	0	0	0	0	0	0	0	0	0	0
2003	0	0	0	0	0	0	0	0	0	0	0	0

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 52 Deg F Cold Water Pool Volume-Temp Flat Reservoir (TAF)
Alternative5 (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					612	752	722	686	442	147	71	58
1981	56	55	50	51	151	323	357	228	94	54	44	38
1982	34	24	41	110	158	264	365	486	360	128	70	60
1983	58	56	58	311	717	956	1046	1041	1049	752	276	113
1984	77	70	70	191	370	561	658	534	276	102	61	52
1985	50	49	43	50	188	354	327	210	96	55	48	40
1986	37	33	48	126	244	508	589	589	428	145	70	61
1987	60	59	53	58	152	308	298	195	96	61	51	47
1988	45	44	66	106	103	99	98	83	62	50	47	44
1989	43	42	61	103	103	103	100	77	53	45	43	41
1990	40	39	58	105	104	99	95	78	60	51	47	44
1991	43	42	72	103	97	101	94	72	35	28	27	27
1992	26	23	55	104	105	98	98	65	50	45	41	39
1993	38	37	59	109	115	156	158	166	122	55	49	46
1994	45	44	41	135	298	305	261	184	92	60	53	47
1995	43	36	76	132	237	341	403	392	301	120	70	60
1996	56	56	55	55	164	434	535	304	123	70	54	49
1997	47	46	47	528	981	1106	1055	773	399	147	71	58
1998	56	55	51	80	335	557	644	528	317	105	66	57
1999	54	53	50	63	231	421	440	290	134	70	53	49
2000	48	47	45	53	145	300	295	174	87	60	53	50
2001	49	47	42	67	199	305	241	123	75	59	48	43
2002	41	39	53	105	103	100	108	94	59	48	44	42
2003	40	31	34	102	104	97	95	79	17	18	18	19

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Change in Average Simulated 52 Deg F Cold Water Pool Volume-Temp Flat Reservoir (TAF)
Alternative5 (2005) - Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					612	752	722	686	442	147	71	58
1981	56	55	50	51	151	323	357	228	94	54	44	38
1982	34	24	41	110	158	264	365	486	360	128	70	60
1983	58	56	58	311	717	956	1046	1041	1049	752	276	113
1984	77	70	70	191	370	561	658	534	276	102	61	52
1985	50	49	43	50	188	354	327	210	96	55	48	40
1986	37	33	48	126	244	508	589	589	428	145	70	61
1987	60	59	53	58	152	308	298	195	96	61	51	47
1988	45	44	66	106	103	99	98	83	62	50	47	44
1989	43	42	61	103	103	103	100	77	53	45	43	41
1990	40	39	58	105	104	99	95	78	60	51	47	44
1991	43	42	72	103	97	101	94	72	35	28	27	27
1992	26	23	55	104	105	98	98	65	50	45	41	39
1993	38	37	59	109	115	156	158	166	122	55	49	46
1994	45	44	41	135	298	305	261	184	92	60	53	47
1995	43	36	76	132	237	341	403	392	301	120	70	60
1996	56	56	55	55	164	434	535	304	123	70	54	49
1997	47	46	47	528	981	1106	1055	773	399	147	71	58
1998	56	55	51	80	335	557	644	528	317	105	66	57
1999	54	53	50	63	231	421	440	290	134	70	53	49
2000	48	47	45	53	145	300	295	174	87	60	53	50
2001	49	47	42	67	199	305	241	123	75	59	48	43
2002	41	39	53	105	103	100	108	94	59	48	44	42
2003	40	31	34	102	104	97	95	79	17	18	18	19

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Percent Change in Average Simulated 52 Deg F Cold Water Pool Volume-Temp Flat Reservoir (TAF)
From Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					0%	0%	0%	0%	0%	0%	0%	0%
1981	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1982	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1983	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1984	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1985	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1986	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1987	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1988	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1989	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1990	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1991	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1992	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1993	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1994	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1995	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1996	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1997	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1998	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1999	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
2000	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
2001	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
2002	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
2003	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 52 Deg F Cold Water Pool Volume-Temp Flat Reservoir (TAF)
No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					0	0	0	0	0	0	0	0
1981	0	0	0	0	0	0	0	0	0	0	0	0
1982	0	0	0	0	0	0	0	0	0	0	0	0
1983	0	0	0	0	0	0	0	0	0	0	0	0
1984	0	0	0	0	0	0	0	0	0	0	0	0
1985	0	0	0	0	0	0	0	0	0	0	0	0
1986	0	0	0	0	0	0	0	0	0	0	0	0
1987	0	0	0	0	0	0	0	0	0	0	0	0
1988	0	0	0	0	0	0	0	0	0	0	0	0
1989	0	0	0	0	0	0	0	0	0	0	0	0
1990	0	0	0	0	0	0	0	0	0	0	0	0
1991	0	0	0	0	0	0	0	0	0	0	0	0
1992	0	0	0	0	0	0	0	0	0	0	0	0
1993	0	0	0	0	0	0	0	0	0	0	0	0
1994	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0	0	0	0	0	0
2002	0	0	0	0	0	0	0	0	0	0	0	0
2003	0	0	0	0	0	0	0	0	0	0	0	0

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 52 Deg F Cold Water Pool Volume-Temp Flat Reservoir (TAF)
Alternative1 (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					632	829	810	745	441	138	69	56
1981	53	52	49	49	149	329	409	361	184	76	57	55
1982	54	51	49	314	479	561	641	766	547	193	80	62
1983	59	58	58	239	536	816	981	1011	1005	732	261	109
1984	75	69	70	193	372	563	664	550	295	109	63	53
1985	51	50	44	54	198	370	367	303	156	75	58	57
1986	56	52	50	235	447	740	837	820	461	155	75	62
1987	59	58	54	51	100	284	342	262	142	79	65	64
1988	64	62	61	248	274	256	256	213	125	84	77	74
1989	72	71	75	207	216	212	217	211	129	83	76	72
1990	70	68	71	216	248	217	222	199	127	87	78	75
1991	73	71	95	202	181	172	162	114	81	66	61	58
1992	57	52	51	217	251	238	241	202	125	83	76	73
1993	71	68	74	307	418	441	400	312	212	83	59	54
1994	53	52	47	107	270	325	295	230	128	82	73	70
1995	67	61	74	371	506	602	653	684	486	164	76	64
1996	59	58	58	58	175	457	565	354	151	82	58	51
1997	49	49	49	503	946	1106	1055	775	405	156	74	60
1998	56	56	52	83	345	562	645	527	303	105	67	58
1999	54	53	50	63	232	417	415	249	110	63	51	47
2000	46	45	42	62	232	364	343	213	102	68	59	56
2001	55	52	46	81	205	299	255	144	91	72	65	64
2002	62	61	56	226	313	285	242	191	110	76	68	66
2003	64	63	59	145	297	298	240	156	86	67	61	58

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Change in Average Simulated 52 Deg F Cold Water Pool Volume-Temp Flat Reservoir (TAF)
Alternative1 (2030) - No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					632	829	810	745	441	138	69	56
1981	53	52	49	49	149	329	409	361	184	76	57	55
1982	54	51	49	314	479	561	641	766	547	193	80	62
1983	59	58	58	239	536	816	981	1011	1005	732	261	109
1984	75	69	70	193	372	563	664	550	295	109	63	53
1985	51	50	44	54	198	370	367	303	156	75	58	57
1986	56	52	50	235	447	740	837	820	461	155	75	62
1987	59	58	54	51	100	284	342	262	142	79	65	64
1988	64	62	61	248	274	256	256	213	125	84	77	74
1989	72	71	75	207	216	212	217	211	129	83	76	72
1990	70	68	71	216	248	217	222	199	127	87	78	75
1991	73	71	95	202	181	172	162	114	81	66	61	58
1992	57	52	51	217	251	238	241	202	125	83	76	73
1993	71	68	74	307	418	441	400	312	212	83	59	54
1994	53	52	47	107	270	325	295	230	128	82	73	70
1995	67	61	74	371	506	602	653	684	486	164	76	64
1996	59	58	58	58	175	457	565	354	151	82	58	51
1997	49	49	49	503	946	1106	1055	775	405	156	74	60
1998	56	56	52	83	345	562	645	527	303	105	67	58
1999	54	53	50	63	232	417	415	249	110	63	51	47
2000	46	45	42	62	232	364	343	213	102	68	59	56
2001	55	52	46	81	205	299	255	144	91	72	65	64
2002	62	61	56	226	313	285	242	191	110	76	68	66
2003	64	63	59	145	297	298	240	156	86	67	61	58

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Percent Change in Average Simulated 52 Deg F Cold Water Pool Volume-Temp Flat Reservoir (TAF)
From No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					0%	0%	0%	0%	0%	0%	0%	0%
1981	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1982	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1983	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1984	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1985	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1986	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1987	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1988	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1989	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1990	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1991	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1992	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1993	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1994	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1995	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1996	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1997	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1998	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1999	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
2000	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
2001	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
2002	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
2003	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 52 Deg F Cold Water Pool Volume-Temp Flat Reservoir (TAF)
No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					0	0	0	0	0	0	0	0
1981	0	0	0	0	0	0	0	0	0	0	0	0
1982	0	0	0	0	0	0	0	0	0	0	0	0
1983	0	0	0	0	0	0	0	0	0	0	0	0
1984	0	0	0	0	0	0	0	0	0	0	0	0
1985	0	0	0	0	0	0	0	0	0	0	0	0
1986	0	0	0	0	0	0	0	0	0	0	0	0
1987	0	0	0	0	0	0	0	0	0	0	0	0
1988	0	0	0	0	0	0	0	0	0	0	0	0
1989	0	0	0	0	0	0	0	0	0	0	0	0
1990	0	0	0	0	0	0	0	0	0	0	0	0
1991	0	0	0	0	0	0	0	0	0	0	0	0
1992	0	0	0	0	0	0	0	0	0	0	0	0
1993	0	0	0	0	0	0	0	0	0	0	0	0
1994	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0	0	0	0	0	0
2002	0	0	0	0	0	0	0	0	0	0	0	0
2003	0	0	0	0	0	0	0	0	0	0	0	0

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 52 Deg F Cold Water Pool Volume-Temp Flat Reservoir (TAF)
Alternative2 (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					628	830	813	746	439	138	69	57
1981	53	52	49	49	149	334	414	365	188	77	58	55
1982	54	51	47	308	483	562	644	759	533	186	80	62
1983	59	58	58	235	531	808	976	1010	1003	730	260	109
1984	76	69	70	193	371	563	663	548	293	109	64	54
1985	51	50	44	52	197	372	378	322	171	78	59	57
1986	55	52	49	230	445	744	843	825	460	156	75	62
1987	59	58	54	51	99	282	340	271	147	80	65	65
1988	64	63	61	249	276	258	261	217	128	85	77	74
1989	73	71	75	211	219	215	222	213	130	84	76	72
1990	70	68	71	214	251	220	225	201	128	88	79	76
1991	74	72	97	202	181	172	162	114	82	67	62	59
1992	57	53	51	217	254	242	248	212	129	84	76	73
1993	71	68	71	310	421	444	401	311	211	83	59	54
1994	54	53	47	105	270	331	303	235	131	82	72	70
1995	67	61	74	367	510	604	655	682	484	163	76	64
1996	59	58	58	58	174	455	560	345	143	80	58	51
1997	49	49	49	503	947	1105	1055	775	404	155	74	60
1998	57	56	52	83	340	560	644	528	309	107	68	58
1999	54	53	50	63	232	416	413	246	109	63	51	47
2000	46	45	42	62	228	362	344	209	101	68	59	56
2001	55	52	46	78	201	299	259	146	91	72	65	64
2002	62	61	56	225	312	285	244	190	110	76	68	66
2003	64	63	59	146	297	297	240	157	86	68	61	59

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Change in Average Simulated 52 Deg F Cold Water Pool Volume-Temp Flat Reservoir (TAF)
Alternative2 (2030) - No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					628	830	813	746	439	138	69	57
1981	53	52	49	49	149	334	414	365	188	77	58	55
1982	54	51	47	308	483	562	644	759	533	186	80	62
1983	59	58	58	235	531	808	976	1010	1003	730	260	109
1984	76	69	70	193	371	563	663	548	293	109	64	54
1985	51	50	44	52	197	372	378	322	171	78	59	57
1986	55	52	49	230	445	744	843	825	460	156	75	62
1987	59	58	54	51	99	282	340	271	147	80	65	65
1988	64	63	61	249	276	258	261	217	128	85	77	74
1989	73	71	75	211	219	215	222	213	130	84	76	72
1990	70	68	71	214	251	220	225	201	128	88	79	76
1991	74	72	97	202	181	172	162	114	82	67	62	59
1992	57	53	51	217	254	242	248	212	129	84	76	73
1993	71	68	71	310	421	444	401	311	211	83	59	54
1994	54	53	47	105	270	331	303	235	131	82	72	70
1995	67	61	74	367	510	604	655	682	484	163	76	64
1996	59	58	58	58	174	455	560	345	143	80	58	51
1997	49	49	49	503	947	1105	1055	775	404	155	74	60
1998	57	56	52	83	340	560	644	528	309	107	68	58
1999	54	53	50	63	232	416	413	246	109	63	51	47
2000	46	45	42	62	228	362	344	209	101	68	59	56
2001	55	52	46	78	201	299	259	146	91	72	65	64
2002	62	61	56	225	312	285	244	190	110	76	68	66
2003	64	63	59	146	297	297	240	157	86	68	61	59

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Percent Change in Average Simulated 52 Deg F Cold Water Pool Volume-Temp Flat Reservoir (TAF)
From No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					0%	0%	0%	0%	0%	0%	0%	0%
1981	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1982	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1983	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1984	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1985	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1986	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1987	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1988	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1989	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1990	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1991	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1992	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1993	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1994	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1995	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1996	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1997	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1998	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1999	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
2000	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
2001	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
2002	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
2003	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 52 Deg F Cold Water Pool Volume-Temp Flat Reservoir (TAF)
No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					0	0	0	0	0	0	0	0
1981	0	0	0	0	0	0	0	0	0	0	0	0
1982	0	0	0	0	0	0	0	0	0	0	0	0
1983	0	0	0	0	0	0	0	0	0	0	0	0
1984	0	0	0	0	0	0	0	0	0	0	0	0
1985	0	0	0	0	0	0	0	0	0	0	0	0
1986	0	0	0	0	0	0	0	0	0	0	0	0
1987	0	0	0	0	0	0	0	0	0	0	0	0
1988	0	0	0	0	0	0	0	0	0	0	0	0
1989	0	0	0	0	0	0	0	0	0	0	0	0
1990	0	0	0	0	0	0	0	0	0	0	0	0
1991	0	0	0	0	0	0	0	0	0	0	0	0
1992	0	0	0	0	0	0	0	0	0	0	0	0
1993	0	0	0	0	0	0	0	0	0	0	0	0
1994	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0	0	0	0	0	0
2002	0	0	0	0	0	0	0	0	0	0	0	0
2003	0	0	0	0	0	0	0	0	0	0	0	0

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 52 Deg F Cold Water Pool Volume-Temp Flat Reservoir (TAF)
Alternative3 (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					625	833	818	748	437	137	68	55
1981	52	51	48	48	145	330	405	351	179	73	56	55
1982	53	51	48	320	494	570	649	758	524	185	82	63
1983	60	59	59	232	528	809	977	1010	1002	731	261	109
1984	75	69	70	193	371	563	663	547	278	98	60	52
1985	50	49	43	51	197	371	363	296	150	72	58	57
1986	56	52	50	240	452	742	839	824	464	157	76	63
1987	60	59	55	52	101	284	342	270	146	80	65	64
1988	64	63	61	248	275	256	258	214	126	85	77	74
1989	72	71	75	208	216	212	217	211	129	83	76	72
1990	70	68	71	216	248	218	223	200	127	87	78	75
1991	73	71	95	203	181	172	162	114	82	66	62	59
1992	57	52	51	217	252	238	241	202	125	83	76	73
1993	70	68	73	307	418	440	398	307	205	81	59	53
1994	52	51	46	107	275	337	309	242	133	82	72	70
1995	66	60	73	368	506	601	650	679	491	165	77	64
1996	58	57	57	58	173	452	558	343	142	76	55	49
1997	48	47	48	520	974	1112	1059	782	406	149	71	58
1998	56	55	51	82	341	561	645	526	295	99	66	58
1999	54	53	50	63	229	418	422	247	105	61	49	45
2000	44	44	41	60	224	364	345	201	96	64	57	55
2001	53	51	45	83	218	304	262	147	91	72	65	64
2002	62	61	56	227	311	285	253	194	110	76	69	66
2003	64	62	59	149	298	296	230	146	84	67	61	59

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Change in Average Simulated 52 Deg F Cold Water Pool Volume-Temp Flat Reservoir (TAF)
Alternative3 (2030) - No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					625	833	818	748	437	137	68	55
1981	52	51	48	48	145	330	405	351	179	73	56	55
1982	53	51	48	320	494	570	649	758	524	185	82	63
1983	60	59	59	232	528	809	977	1010	1002	731	261	109
1984	75	69	70	193	371	563	663	547	278	98	60	52
1985	50	49	43	51	197	371	363	296	150	72	58	57
1986	56	52	50	240	452	742	839	824	464	157	76	63
1987	60	59	55	52	101	284	342	270	146	80	65	64
1988	64	63	61	248	275	256	258	214	126	85	77	74
1989	72	71	75	208	216	212	217	211	129	83	76	72
1990	70	68	71	216	248	218	223	200	127	87	78	75
1991	73	71	95	203	181	172	162	114	82	66	62	59
1992	57	52	51	217	252	238	241	202	125	83	76	73
1993	70	68	73	307	418	440	398	307	205	81	59	53
1994	52	51	46	107	275	337	309	242	133	82	72	70
1995	66	60	73	368	506	601	650	679	491	165	77	64
1996	58	57	57	58	173	452	558	343	142	76	55	49
1997	48	47	48	520	974	1112	1059	782	406	149	71	58
1998	56	55	51	82	341	561	645	526	295	99	66	58
1999	54	53	50	63	229	418	422	247	105	61	49	45
2000	44	44	41	60	224	364	345	201	96	64	57	55
2001	53	51	45	83	218	304	262	147	91	72	65	64
2002	62	61	56	227	311	285	253	194	110	76	69	66
2003	64	62	59	149	298	296	230	146	84	67	61	59

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Percent Change in Average Simulated 52 Deg F Cold Water Pool Volume-Temp Flat Reservoir (TAF)
From No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					0%	0%	0%	0%	0%	0%	0%	0%
1981	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1982	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1983	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1984	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1985	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1986	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1987	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1988	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1989	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1990	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1991	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1992	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1993	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1994	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1995	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1996	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1997	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1998	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1999	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
2000	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
2001	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
2002	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
2003	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 52 Deg F Cold Water Pool Volume-Temp Flat Reservoir (TAF)
No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					0	0	0	0	0	0	0	0
1981	0	0	0	0	0	0	0	0	0	0	0	0
1982	0	0	0	0	0	0	0	0	0	0	0	0
1983	0	0	0	0	0	0	0	0	0	0	0	0
1984	0	0	0	0	0	0	0	0	0	0	0	0
1985	0	0	0	0	0	0	0	0	0	0	0	0
1986	0	0	0	0	0	0	0	0	0	0	0	0
1987	0	0	0	0	0	0	0	0	0	0	0	0
1988	0	0	0	0	0	0	0	0	0	0	0	0
1989	0	0	0	0	0	0	0	0	0	0	0	0
1990	0	0	0	0	0	0	0	0	0	0	0	0
1991	0	0	0	0	0	0	0	0	0	0	0	0
1992	0	0	0	0	0	0	0	0	0	0	0	0
1993	0	0	0	0	0	0	0	0	0	0	0	0
1994	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0	0	0	0	0	0
2002	0	0	0	0	0	0	0	0	0	0	0	0
2003	0	0	0	0	0	0	0	0	0	0	0	0

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 52 Deg F Cold Water Pool Volume-Temp Flat Reservoir (TAF)
Alternative4 (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					733	964	932	900	706	535	518	319
1981	128	92	83	81	197	384	469	488	413	347	284	148
1982	96	88	75	350	613	676	755	921	811	607	565	349
1983	153	101	96	269	570	853	1000	1050	1112	873	591	386
1984	216	127	97	229	414	596	702	678	627	571	517	292
1985	133	89	73	102	309	468	443	435	384	330	230	125
1986	95	86	75	226	477	844	955	962	757	610	576	379
1987	175	107	94	89	159	348	421	405	360	318	224	127
1988	96	91	83	254	378	354	347	309	242	196	173	117
1989	100	95	89	209	328	310	305	299	254	198	172	115
1990	98	93	87	143	329	316	308	278	226	195	175	129
1991	103	97	93	181	265	250	241	172	142	133	127	94
1992	87	79	63	220	350	333	322	308	283	214	182	125
1993	99	93	84	320	512	542	491	452	467	357	302	141
1994	91	85	74	93	236	401	397	374	346	292	211	129
1995	96	86	86	331	599	696	747	827	779	474	452	290
1996	124	94	89	89	222	512	625	537	510	486	464	293
1997	130	89	85	591	1063	1130	1068	878	677	609	570	389
1998	206	123	97	150	447	641	717	697	577	432	424	261
1999	111	89	81	100	299	488	474	358	355	333	286	149
2000	88	81	72	81	230	398	406	310	282	272	251	143
2001	93	84	72	79	205	375	365	288	266	240	181	114
2002	93	89	75	170	342	350	336	346	317	271	197	122
2003	95	89	79	92	232	311	274	207	161	154	138	90

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Change in Average Simulated 52 Deg F Cold Water Pool Volume-Temp Flat Reservoir (TAF)
Alternative4 (2030) - No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					733	964	932	900	706	535	518	319
1981	128	92	83	81	197	384	469	488	413	347	284	148
1982	96	88	75	350	613	676	755	921	811	607	565	349
1983	153	101	96	269	570	853	1000	1050	1112	873	591	386
1984	216	127	97	229	414	596	702	678	627	571	517	292
1985	133	89	73	102	309	468	443	435	384	330	230	125
1986	95	86	75	226	477	844	955	962	757	610	576	379
1987	175	107	94	89	159	348	421	405	360	318	224	127
1988	96	91	83	254	378	354	347	309	242	196	173	117
1989	100	95	89	209	328	310	305	299	254	198	172	115
1990	98	93	87	143	329	316	308	278	226	195	175	129
1991	103	97	93	181	265	250	241	172	142	133	127	94
1992	87	79	63	220	350	333	322	308	283	214	182	125
1993	99	93	84	320	512	542	491	452	467	357	302	141
1994	91	85	74	93	236	401	397	374	346	292	211	129
1995	96	86	86	331	599	696	747	827	779	474	452	290
1996	124	94	89	89	222	512	625	537	510	486	464	293
1997	130	89	85	591	1063	1130	1068	878	677	609	570	389
1998	206	123	97	150	447	641	717	697	577	432	424	261
1999	111	89	81	100	299	488	474	358	355	333	286	149
2000	88	81	72	81	230	398	406	310	282	272	251	143
2001	93	84	72	79	205	375	365	288	266	240	181	114
2002	93	89	75	170	342	350	336	346	317	271	197	122
2003	95	89	79	92	232	311	274	207	161	154	138	90

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Percent Change in Average Simulated 52 Deg F Cold Water Pool Volume-Temp Flat Reservoir (TAF)
From No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					0%	0%	0%	0%	0%	0%	0%	0%
1981	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1982	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1983	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1984	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1985	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1986	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1987	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1988	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1989	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1990	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1991	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1992	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1993	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1994	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1995	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1996	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1997	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1998	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1999	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
2000	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
2001	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
2002	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
2003	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 60 Deg F Cold Water Pool Volume-Temp Flat Reservoir (TAF)
Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					0	0	0	0	0	0	0	0
1981	0	0	0	0	0	0	0	0	0	0	0	0
1982	0	0	0	0	0	0	0	0	0	0	0	0
1983	0	0	0	0	0	0	0	0	0	0	0	0
1984	0	0	0	0	0	0	0	0	0	0	0	0
1985	0	0	0	0	0	0	0	0	0	0	0	0
1986	0	0	0	0	0	0	0	0	0	0	0	0
1987	0	0	0	0	0	0	0	0	0	0	0	0
1988	0	0	0	0	0	0	0	0	0	0	0	0
1989	0	0	0	0	0	0	0	0	0	0	0	0
1990	0	0	0	0	0	0	0	0	0	0	0	0
1991	0	0	0	0	0	0	0	0	0	0	0	0
1992	0	0	0	0	0	0	0	0	0	0	0	0
1993	0	0	0	0	0	0	0	0	0	0	0	0
1994	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0	0	0	0	0	0
2002	0	0	0	0	0	0	0	0	0	0	0	0
2003	0	0	0	0	0	0	0	0	0	0	0	0

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 60 Deg F Cold Water Pool Volume-Temp Flat Reservoir (TAF)
Alternative1 (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					966	1118	1166	1212	1191	1202	1023	742
1981	514	618	983	975	954	930	833	778	639	362	131	86
1982	78	113	367	463	544	655	787	1025	1196	1192	1005	672
1983	496	888	1334	1334	1334	1333	1286	1236	1322	1279	1132	859
1984	658	703	1334	1334	1334	1283	1215	1165	1143	953	621	319
1985	143	111	673	707	674	643	624	643	526	288	112	85
1986	80	175	334	406	538	839	991	1090	1242	1198	920	594
1987	370	268	771	757	716	692	636	641	517	301	125	90
1988	86	106	260	301	328	323	340	352	286	155	100	92
1989	89	119	210	238	256	272	317	366	283	148	99	90
1990	89	148	241	266	286	278	297	319	230	134	100	93
1991	90	152	205	210	211	215	215	212	225	149	92	82
1992	82	128	233	265	294	316	335	392	289	143	97	90
1993	87	125	223	333	465	516	576	633	777	783	483	212
1994	109	100	507	509	489	478	469	468	405	232	116	92
1995	90	214	304	422	581	700	827	944	1158	1265	1037	697
1996	475	347	739	1126	1185	1233	1168	1185	1191	1064	704	396
1997	191	123	692	1243	1301	1262	1195	1192	1151	968	624	328
1998	144	97	422	657	770	817	910	904	1043	1243	947	619
1999	401	566	1102	1123	1156	1131	1059	958	953	694	360	142
2000	90	80	258	466	514	523	527	546	580	366	142	86
2001	79	156	358	377	387	398	402	427	393	193	96	83
2002	81	82	272	347	379	380	394	419	374	202	101	87
2003	84	82	277	367	415	401	380	343	401	240	105	84

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Change in Average Simulated 60 Deg F Cold Water Pool Volume-Temp Flat Reservoir (TAF)
Alternative1 (2005) - Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					966	1118	1166	1212	1191	1202	1023	742
1981	514	618	983	975	954	930	833	778	639	362	131	86
1982	78	113	367	463	544	655	787	1025	1196	1192	1005	672
1983	496	888	1334	1334	1334	1333	1286	1236	1322	1279	1132	859
1984	658	703	1334	1334	1334	1283	1215	1165	1143	953	621	319
1985	143	111	673	707	674	643	624	643	526	288	112	85
1986	80	175	334	406	538	839	991	1090	1242	1198	920	594
1987	370	268	771	757	716	692	636	641	517	301	125	90
1988	86	106	260	301	328	323	340	352	286	155	100	92
1989	89	119	210	238	256	272	317	366	283	148	99	90
1990	89	148	241	266	286	278	297	319	230	134	100	93
1991	90	152	205	210	211	215	215	212	225	149	92	82
1992	82	128	233	265	294	316	335	392	289	143	97	90
1993	87	125	223	333	465	516	576	633	777	783	483	212
1994	109	100	507	509	489	478	469	468	405	232	116	92
1995	90	214	304	422	581	700	827	944	1158	1265	1037	697
1996	475	347	739	1126	1185	1233	1168	1185	1191	1064	704	396
1997	191	123	692	1243	1301	1262	1195	1192	1151	968	624	328
1998	144	97	422	657	770	817	910	904	1043	1243	947	619
1999	401	566	1102	1123	1156	1131	1059	958	953	694	360	142
2000	90	80	258	466	514	523	527	546	580	366	142	86
2001	79	156	358	377	387	398	402	427	393	193	96	83
2002	81	82	272	347	379	380	394	419	374	202	101	87
2003	84	82	277	367	415	401	380	343	401	240	105	84

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Percent Change in Average Simulated 60 Deg F Cold Water Pool Volume-Temp Flat Reservoir (TAF)
From Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					0%	0%	0%	0%	0%	0%	0%	0%
1981	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1982	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1983	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1984	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1985	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1986	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1987	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1988	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1989	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1990	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1991	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1992	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1993	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1994	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1995	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1996	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1997	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1998	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1999	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
2000	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
2001	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
2002	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
2003	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 60 Deg F Cold Water Pool Volume-Temp Flat Reservoir (TAF)
Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					0	0	0	0	0	0	0	0
1981	0	0	0	0	0	0	0	0	0	0	0	0
1982	0	0	0	0	0	0	0	0	0	0	0	0
1983	0	0	0	0	0	0	0	0	0	0	0	0
1984	0	0	0	0	0	0	0	0	0	0	0	0
1985	0	0	0	0	0	0	0	0	0	0	0	0
1986	0	0	0	0	0	0	0	0	0	0	0	0
1987	0	0	0	0	0	0	0	0	0	0	0	0
1988	0	0	0	0	0	0	0	0	0	0	0	0
1989	0	0	0	0	0	0	0	0	0	0	0	0
1990	0	0	0	0	0	0	0	0	0	0	0	0
1991	0	0	0	0	0	0	0	0	0	0	0	0
1992	0	0	0	0	0	0	0	0	0	0	0	0
1993	0	0	0	0	0	0	0	0	0	0	0	0
1994	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0	0	0	0	0	0
2002	0	0	0	0	0	0	0	0	0	0	0	0
2003	0	0	0	0	0	0	0	0	0	0	0	0

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 60 Deg F Cold Water Pool Volume-Temp Flat Reservoir (TAF)
Alternative2 (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					935	1089	1138	1187	1172	1203	1021	744
1981	511	600	965	956	933	908	812	759	629	365	137	88
1982	80	108	377	472	552	661	791	1030	1202	1196	1023	702
1983	527	926	1336	1337	1337	1335	1287	1237	1325	1281	1136	865
1984	670	713	1336	1337	1337	1284	1215	1166	1146	959	632	333
1985	150	111	670	707	674	642	624	645	532	303	121	88
1986	83	174	348	415	545	846	1000	1101	1247	1190	891	571
1987	347	227	738	724	683	660	609	617	498	291	124	91
1988	87	107	263	305	333	327	344	355	291	158	100	92
1989	89	118	212	240	258	275	319	368	286	149	99	91
1990	89	147	243	269	288	279	299	322	231	132	101	93
1991	91	151	208	212	213	217	217	214	226	151	93	83
1992	82	128	235	267	297	318	337	393	290	143	97	90
1993	87	125	225	336	467	518	577	633	775	776	467	206
1994	109	102	494	495	475	465	455	457	397	228	115	92
1995	90	216	306	424	582	701	826	943	1158	1267	1039	700
1996	476	340	724	1113	1171	1220	1167	1185	1193	1060	696	393
1997	189	120	679	1241	1304	1265	1197	1194	1153	960	608	312
1998	138	95	409	631	744	792	882	876	1015	1244	948	625
1999	411	586	1120	1144	1178	1152	1079	975	971	718	388	159
2000	95	82	262	478	525	533	537	553	589	369	146	89
2001	82	149	372	389	399	408	411	437	403	201	97	83
2002	81	81	274	351	382	383	397	421	370	194	101	87
2003	84	82	277	369	417	402	382	347	407	258	112	86

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Change in Average Simulated 60 Deg F Cold Water Pool Volume-Temp Flat Reservoir (TAF)
Alternative2 (2005) - Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					935	1089	1138	1187	1172	1203	1021	744
1981	511	600	965	956	933	908	812	759	629	365	137	88
1982	80	108	377	472	552	661	791	1030	1202	1196	1023	702
1983	527	926	1336	1337	1337	1335	1287	1237	1325	1281	1136	865
1984	670	713	1336	1337	1337	1284	1215	1166	1146	959	632	333
1985	150	111	670	707	674	642	624	645	532	303	121	88
1986	83	174	348	415	545	846	1000	1101	1247	1190	891	571
1987	347	227	738	724	683	660	609	617	498	291	124	91
1988	87	107	263	305	333	327	344	355	291	158	100	92
1989	89	118	212	240	258	275	319	368	286	149	99	91
1990	89	147	243	269	288	279	299	322	231	132	101	93
1991	91	151	208	212	213	217	217	214	226	151	93	83
1992	82	128	235	267	297	318	337	393	290	143	97	90
1993	87	125	225	336	467	518	577	633	775	776	467	206
1994	109	102	494	495	475	465	455	457	397	228	115	92
1995	90	216	306	424	582	701	826	943	1158	1267	1039	700
1996	476	340	724	1113	1171	1220	1167	1185	1193	1060	696	393
1997	189	120	679	1241	1304	1265	1197	1194	1153	960	608	312
1998	138	95	409	631	744	792	882	876	1015	1244	948	625
1999	411	586	1120	1144	1178	1152	1079	975	971	718	388	159
2000	95	82	262	478	525	533	537	553	589	369	146	89
2001	82	149	372	389	399	408	411	437	403	201	97	83
2002	81	81	274	351	382	383	397	421	370	194	101	87
2003	84	82	277	369	417	402	382	347	407	258	112	86

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Percent Change in Average Simulated 60 Deg F Cold Water Pool Volume-Temp Flat Reservoir (TAF)
From Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					0%	0%	0%	0%	0%	0%	0%	0%
1981	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1982	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1983	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1984	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1985	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1986	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1987	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1988	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1989	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1990	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1991	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1992	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1993	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1994	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1995	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1996	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1997	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1998	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1999	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
2000	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
2001	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
2002	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
2003	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 60 Deg F Cold Water Pool Volume-Temp Flat Reservoir (TAF)
Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					0	0	0	0	0	0	0	0
1981	0	0	0	0	0	0	0	0	0	0	0	0
1982	0	0	0	0	0	0	0	0	0	0	0	0
1983	0	0	0	0	0	0	0	0	0	0	0	0
1984	0	0	0	0	0	0	0	0	0	0	0	0
1985	0	0	0	0	0	0	0	0	0	0	0	0
1986	0	0	0	0	0	0	0	0	0	0	0	0
1987	0	0	0	0	0	0	0	0	0	0	0	0
1988	0	0	0	0	0	0	0	0	0	0	0	0
1989	0	0	0	0	0	0	0	0	0	0	0	0
1990	0	0	0	0	0	0	0	0	0	0	0	0
1991	0	0	0	0	0	0	0	0	0	0	0	0
1992	0	0	0	0	0	0	0	0	0	0	0	0
1993	0	0	0	0	0	0	0	0	0	0	0	0
1994	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0	0	0	0	0	0
2002	0	0	0	0	0	0	0	0	0	0	0	0
2003	0	0	0	0	0	0	0	0	0	0	0	0

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 60 Deg F Cold Water Pool Volume-Temp Flat Reservoir (TAF)
Alternative3 (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					846	1008	1016	1012	995	1080	737	387
1981	182	224	774	761	736	717	651	628	511	255	101	82
1982	79	129	341	433	512	621	708	889	1052	1048	770	466
1983	301	635	1250	1334	1334	1333	1286	1236	1322	1279	1133	861
1984	663	708	1334	1334	1334	1283	1204	1111	1066	792	438	174
1985	96	92	579	626	595	569	548	564	453	229	100	84
1986	82	183	314	378	505	809	917	971	1146	1083	747	454
1987	249	140	636	636	590	572	533	547	435	238	108	88
1988	86	114	245	278	301	296	309	320	264	147	99	91
1989	89	121	205	212	223	241	292	347	269	143	98	90
1990	89	150	229	240	253	247	269	294	216	141	99	91
1991	89	152	205	204	204	205	198	189	207	154	92	81
1992	80	128	221	238	261	282	302	365	268	134	97	90
1993	88	126	211	307	432	484	485	482	602	606	292	102
1994	82	126	380	391	397	414	408	411	357	201	109	91
1995	90	219	290	396	547	664	746	801	1014	1259	1020	671
1996	440	312	699	1103	1156	1205	1143	1161	1186	996	608	306
1997	142	104	593	1219	1301	1263	1198	1194	1145	920	545	245
1998	114	90	394	609	719	766	808	739	840	1206	920	615
1999	411	593	1150	1166	1196	1166	1060	915	859	552	208	90
2000	79	73	253	391	460	490	481	498	522	275	108	82
2001	78	170	348	363	370	382	385	404	373	182	94	83
2002	81	83	265	326	351	353	361	383	343	182	99	87
2003	84	83	273	345	386	373	339	294	350	202	97	82

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Change in Average Simulated 60 Deg F Cold Water Pool Volume-Temp Flat Reservoir (TAF)
Alternative3 (2005) - Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					846	1008	1016	1012	995	1080	737	387
1981	182	224	774	761	736	717	651	628	511	255	101	82
1982	79	129	341	433	512	621	708	889	1052	1048	770	466
1983	301	635	1250	1334	1334	1333	1286	1236	1322	1279	1133	861
1984	663	708	1334	1334	1334	1283	1204	1111	1066	792	438	174
1985	96	92	579	626	595	569	548	564	453	229	100	84
1986	82	183	314	378	505	809	917	971	1146	1083	747	454
1987	249	140	636	636	590	572	533	547	435	238	108	88
1988	86	114	245	278	301	296	309	320	264	147	99	91
1989	89	121	205	212	223	241	292	347	269	143	98	90
1990	89	150	229	240	253	247	269	294	216	141	99	91
1991	89	152	205	204	204	205	198	189	207	154	92	81
1992	80	128	221	238	261	282	302	365	268	134	97	90
1993	88	126	211	307	432	484	485	482	602	606	292	102
1994	82	126	380	391	397	414	408	411	357	201	109	91
1995	90	219	290	396	547	664	746	801	1014	1259	1020	671
1996	440	312	699	1103	1156	1205	1143	1161	1186	996	608	306
1997	142	104	593	1219	1301	1263	1198	1194	1145	920	545	245
1998	114	90	394	609	719	766	808	739	840	1206	920	615
1999	411	593	1150	1166	1196	1166	1060	915	859	552	208	90
2000	79	73	253	391	460	490	481	498	522	275	108	82
2001	78	170	348	363	370	382	385	404	373	182	94	83
2002	81	83	265	326	351	353	361	383	343	182	99	87
2003	84	83	273	345	386	373	339	294	350	202	97	82

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Percent Change in Average Simulated 60 Deg F Cold Water Pool Volume-Temp Flat Reservoir (TAF)
From Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					0%	0%	0%	0%	0%	0%	0%	0%
1981	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1982	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1983	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1984	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1985	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1986	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1987	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1988	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1989	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1990	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1991	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1992	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1993	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1994	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1995	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1996	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1997	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1998	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1999	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
2000	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
2001	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
2002	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
2003	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 60 Deg F Cold Water Pool Volume-Temp Flat Reservoir (TAF)
Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					0	0	0	0	0	0	0	0
1981	0	0	0	0	0	0	0	0	0	0	0	0
1982	0	0	0	0	0	0	0	0	0	0	0	0
1983	0	0	0	0	0	0	0	0	0	0	0	0
1984	0	0	0	0	0	0	0	0	0	0	0	0
1985	0	0	0	0	0	0	0	0	0	0	0	0
1986	0	0	0	0	0	0	0	0	0	0	0	0
1987	0	0	0	0	0	0	0	0	0	0	0	0
1988	0	0	0	0	0	0	0	0	0	0	0	0
1989	0	0	0	0	0	0	0	0	0	0	0	0
1990	0	0	0	0	0	0	0	0	0	0	0	0
1991	0	0	0	0	0	0	0	0	0	0	0	0
1992	0	0	0	0	0	0	0	0	0	0	0	0
1993	0	0	0	0	0	0	0	0	0	0	0	0
1994	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0	0	0	0	0	0
2002	0	0	0	0	0	0	0	0	0	0	0	0
2003	0	0	0	0	0	0	0	0	0	0	0	0

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 60 Deg F Cold Water Pool Volume-Temp Flat Reservoir (TAF)
Alternative4 (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					1012	1175	1224	1229	1203	1219	1127	875
1981	629	713	988	982	959	938	861	854	764	546	418	273
1982	175	201	498	597	678	787	914	1128	1248	1208	1101	853
1983	667	1005	1335	1335	1335	1334	1288	1237	1325	1281	1172	957
1984	749	798	1335	1335	1335	1285	1217	1166	1152	1018	793	519
1985	322	340	760	772	744	715	695	719	620	476	338	186
1986	124	242	465	537	668	968	1101	1144	1256	1191	943	660
1987	451	422	785	775	738	718	663	672	576	462	309	177
1988	122	118	372	420	450	439	449	463	399	282	215	145
1989	114	112	313	361	379	393	429	481	433	301	221	146
1990	116	132	363	389	408	399	411	428	336	252	213	160
1991	121	160	331	333	333	337	332	326	339	267	202	135
1992	111	118	355	387	416	434	445	509	444	308	229	160
1993	119	113	344	456	587	631	688	732	894	945	762	525
1994	343	356	617	620	599	583	563	568	533	433	290	177
1995	124	269	426	544	703	816	905	999	1197	1271	1115	818
1996	587	458	879	1134	1191	1239	1171	1192	1200	1079	830	574
1997	378	268	913	1252	1302	1265	1200	1196	1160	997	781	555
1998	370	278	669	706	823	875	968	964	1101	1255	1042	768
1999	547	721	1122	1146	1181	1157	1062	926	911	759	502	283
2000	161	117	352	510	587	610	610	632	680	531	401	243
2001	147	235	494	515	525	528	520	553	543	434	277	159
2002	114	108	351	476	505	502	505	537	523	434	284	168
2003	118	111	308	493	539	514	483	450	539	456	291	160

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Change in Average Simulated 60 Deg F Cold Water Pool Volume-Temp Flat Reservoir (TAF)
Alternative4 (2005) - Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					1012	1175	1224	1229	1203	1219	1127	875
1981	629	713	988	982	959	938	861	854	764	546	418	273
1982	175	201	498	597	678	787	914	1128	1248	1208	1101	853
1983	667	1005	1335	1335	1335	1334	1288	1237	1325	1281	1172	957
1984	749	798	1335	1335	1335	1285	1217	1166	1152	1018	793	519
1985	322	340	760	772	744	715	695	719	620	476	338	186
1986	124	242	465	537	668	968	1101	1144	1256	1191	943	660
1987	451	422	785	775	738	718	663	672	576	462	309	177
1988	122	118	372	420	450	439	449	463	399	282	215	145
1989	114	112	313	361	379	393	429	481	433	301	221	146
1990	116	132	363	389	408	399	411	428	336	252	213	160
1991	121	160	331	333	333	337	332	326	339	267	202	135
1992	111	118	355	387	416	434	445	509	444	308	229	160
1993	119	113	344	456	587	631	688	732	894	945	762	525
1994	343	356	617	620	599	583	563	568	533	433	290	177
1995	124	269	426	544	703	816	905	999	1197	1271	1115	818
1996	587	458	879	1134	1191	1239	1171	1192	1200	1079	830	574
1997	378	268	913	1252	1302	1265	1200	1196	1160	997	781	555
1998	370	278	669	706	823	875	968	964	1101	1255	1042	768
1999	547	721	1122	1146	1181	1157	1062	926	911	759	502	283
2000	161	117	352	510	587	610	610	632	680	531	401	243
2001	147	235	494	515	525	528	520	553	543	434	277	159
2002	114	108	351	476	505	502	505	537	523	434	284	168
2003	118	111	308	493	539	514	483	450	539	456	291	160

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Percent Change in Average Simulated 60 Deg F Cold Water Pool Volume-Temp Flat Reservoir (TAF)
From Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					0%	0%	0%	0%	0%	0%	0%	0%
1981	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1982	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1983	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1984	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1985	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1986	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1987	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1988	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1989	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1990	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1991	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1992	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1993	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1994	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1995	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1996	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1997	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1998	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1999	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
2000	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
2001	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
2002	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
2003	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 60 Deg F Cold Water Pool Volume-Temp Flat Reservoir (TAF)
Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					0	0	0	0	0	0	0	0
1981	0	0	0	0	0	0	0	0	0	0	0	0
1982	0	0	0	0	0	0	0	0	0	0	0	0
1983	0	0	0	0	0	0	0	0	0	0	0	0
1984	0	0	0	0	0	0	0	0	0	0	0	0
1985	0	0	0	0	0	0	0	0	0	0	0	0
1986	0	0	0	0	0	0	0	0	0	0	0	0
1987	0	0	0	0	0	0	0	0	0	0	0	0
1988	0	0	0	0	0	0	0	0	0	0	0	0
1989	0	0	0	0	0	0	0	0	0	0	0	0
1990	0	0	0	0	0	0	0	0	0	0	0	0
1991	0	0	0	0	0	0	0	0	0	0	0	0
1992	0	0	0	0	0	0	0	0	0	0	0	0
1993	0	0	0	0	0	0	0	0	0	0	0	0
1994	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0	0	0	0	0	0
2002	0	0	0	0	0	0	0	0	0	0	0	0
2003	0	0	0	0	0	0	0	0	0	0	0	0

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 60 Deg F Cold Water Pool Volume-Temp Flat Reservoir (TAF)
Alternative5 (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					729	890	896	882	874	967	637	329
1981	151	142	721	708	682	652	561	505	341	114	58	53
1982	77	106	107	110	159	267	375	586	738	740	487	229
1983	136	422	1038	1210	1333	1333	1292	1241	1323	1279	1134	862
1984	677	716	1334	1334	1334	1283	1200	1102	1070	822	482	202
1985	102	95	598	641	606	568	519	497	345	127	64	59
1986	56	98	107	126	247	533	656	716	885	751	399	160
1987	94	84	446	495	464	450	414	411	268	104	68	64
1988	59	84	105	106	105	104	106	100	91	81	74	63
1989	59	88	103	103	104	105	107	102	88	82	74	64
1990	59	103	104	105	105	104	106	96	86	83	74	64
1991	61	101	103	103	103	103	103	101	101	75	61	51
1992	50	91	103	104	106	104	107	100	79	76	69	62
1993	57	87	103	109	115	164	168	193	337	336	140	84
1994	77	144	326	343	352	368	350	331	242	105	76	67
1995	75	105	105	132	242	356	455	526	714	1159	959	610
1996	391	272	657	1107	1156	1201	1137	1152	1185	1003	631	330
1997	153	108	617	1254	1332	1261	1196	1194	1147	924	565	273
1998	123	91	404	623	730	775	817	748	863	1219	927	616
1999	412	597	1147	1163	1193	1163	1073	952	943	679	344	138
2000	90	81	261	482	522	527	510	520	555	321	122	83
2001	78	160	370	382	386	389	372	364	284	105	61	54
2002	52	68	106	106	105	103	117	147	135	72	64	59
2003	56	91	105	106	105	103	103	104	148	81	55	49

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Change in Average Simulated 60 Deg F Cold Water Pool Volume-Temp Flat Reservoir (TAF)
Alternative5 (2005) - Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					729	890	896	882	874	967	637	329
1981	151	142	721	708	682	652	561	505	341	114	58	53
1982	77	106	107	110	159	267	375	586	738	740	487	229
1983	136	422	1038	1210	1333	1333	1292	1241	1323	1279	1134	862
1984	677	716	1334	1334	1334	1283	1200	1102	1070	822	482	202
1985	102	95	598	641	606	568	519	497	345	127	64	59
1986	56	98	107	126	247	533	656	716	885	751	399	160
1987	94	84	446	495	464	450	414	411	268	104	68	64
1988	59	84	105	106	105	104	106	100	91	81	74	63
1989	59	88	103	103	104	105	107	102	88	82	74	64
1990	59	103	104	105	105	104	106	96	86	83	74	64
1991	61	101	103	103	103	103	103	101	101	75	61	51
1992	50	91	103	104	106	104	107	100	79	76	69	62
1993	57	87	103	109	115	164	168	193	337	336	140	84
1994	77	144	326	343	352	368	350	331	242	105	76	67
1995	75	105	105	132	242	356	455	526	714	1159	959	610
1996	391	272	657	1107	1156	1201	1137	1152	1185	1003	631	330
1997	153	108	617	1254	1332	1261	1196	1194	1147	924	565	273
1998	123	91	404	623	730	775	817	748	863	1219	927	616
1999	412	597	1147	1163	1193	1163	1073	952	943	679	344	138
2000	90	81	261	482	522	527	510	520	555	321	122	83
2001	78	160	370	382	386	389	372	364	284	105	61	54
2002	52	68	106	106	105	103	117	147	135	72	64	59
2003	56	91	105	106	105	103	103	104	148	81	55	49

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Percent Change in Average Simulated 60 Deg F Cold Water Pool Volume-Temp Flat Reservoir (TAF)
From Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					0%	0%	0%	0%	0%	0%	0%	0%
1981	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1982	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1983	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1984	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1985	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1986	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1987	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1988	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1989	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1990	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1991	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1992	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1993	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1994	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1995	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1996	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1997	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1998	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1999	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
2000	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
2001	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
2002	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
2003	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 60 Deg F Cold Water Pool Volume-Temp Flat Reservoir (TAF)
No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					0	0	0	0	0	0	0	0
1981	0	0	0	0	0	0	0	0	0	0	0	0
1982	0	0	0	0	0	0	0	0	0	0	0	0
1983	0	0	0	0	0	0	0	0	0	0	0	0
1984	0	0	0	0	0	0	0	0	0	0	0	0
1985	0	0	0	0	0	0	0	0	0	0	0	0
1986	0	0	0	0	0	0	0	0	0	0	0	0
1987	0	0	0	0	0	0	0	0	0	0	0	0
1988	0	0	0	0	0	0	0	0	0	0	0	0
1989	0	0	0	0	0	0	0	0	0	0	0	0
1990	0	0	0	0	0	0	0	0	0	0	0	0
1991	0	0	0	0	0	0	0	0	0	0	0	0
1992	0	0	0	0	0	0	0	0	0	0	0	0
1993	0	0	0	0	0	0	0	0	0	0	0	0
1994	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0	0	0	0	0	0
2002	0	0	0	0	0	0	0	0	0	0	0	0
2003	0	0	0	0	0	0	0	0	0	0	0	0

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 60 Deg F Cold Water Pool Volume-Temp Flat Reservoir (TAF)
Alternative1 (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					835	995	1002	999	986	1074	753	434
1981	215	252	778	757	729	714	651	635	524	271	106	84
1982	79	123	332	417	495	607	696	875	1037	1021	712	401
1983	230	530	1220	1332	1334	1332	1286	1236	1322	1279	1132	860
1984	661	706	1333	1333	1334	1283	1205	1114	1086	847	507	217
1985	105	95	583	621	586	562	549	573	468	248	105	85
1986	83	182	317	377	503	807	914	966	1140	1076	729	426
1987	215	129	620	628	585	568	530	543	431	234	107	88
1988	85	114	243	276	300	296	310	320	264	147	99	91
1989	89	121	204	211	223	241	291	346	269	143	98	90
1990	89	150	228	240	252	247	268	294	216	141	99	91
1991	89	152	204	204	203	204	197	189	207	153	92	81
1992	80	128	220	238	261	282	302	365	267	134	97	89
1993	87	126	211	307	431	485	487	486	607	609	296	110
1994	84	124	379	382	384	404	399	403	352	200	109	91
1995	91	219	289	395	546	665	749	803	1019	1258	1019	679
1996	460	332	714	1105	1156	1209	1148	1163	1186	1039	674	367
1997	172	114	639	1230	1300	1262	1196	1193	1149	941	586	289
1998	127	92	397	604	711	762	806	737	851	1215	926	605
1999	387	545	1101	1107	1131	1108	1007	870	834	553	225	95
2000	80	75	250	381	448	483	478	497	538	310	121	84
2001	79	162	347	354	360	374	380	400	363	176	94	83
2002	81	83	267	328	354	356	365	385	349	186	100	87
2003	84	83	273	348	389	378	345	302	363	221	101	83

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Change in Average Simulated 60 Deg F Cold Water Pool Volume-Temp Flat Reservoir (TAF)
Alternative1 (2030) - No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					835	995	1002	999	986	1074	753	434
1981	215	252	778	757	729	714	651	635	524	271	106	84
1982	79	123	332	417	495	607	696	875	1037	1021	712	401
1983	230	530	1220	1332	1334	1332	1286	1236	1322	1279	1132	860
1984	661	706	1333	1333	1334	1283	1205	1114	1086	847	507	217
1985	105	95	583	621	586	562	549	573	468	248	105	85
1986	83	182	317	377	503	807	914	966	1140	1076	729	426
1987	215	129	620	628	585	568	530	543	431	234	107	88
1988	85	114	243	276	300	296	310	320	264	147	99	91
1989	89	121	204	211	223	241	291	346	269	143	98	90
1990	89	150	228	240	252	247	268	294	216	141	99	91
1991	89	152	204	204	203	204	197	189	207	153	92	81
1992	80	128	220	238	261	282	302	365	267	134	97	89
1993	87	126	211	307	431	485	487	486	607	609	296	110
1994	84	124	379	382	384	404	399	403	352	200	109	91
1995	91	219	289	395	546	665	749	803	1019	1258	1019	679
1996	460	332	714	1105	1156	1209	1148	1163	1186	1039	674	367
1997	172	114	639	1230	1300	1262	1196	1193	1149	941	586	289
1998	127	92	397	604	711	762	806	737	851	1215	926	605
1999	387	545	1101	1107	1131	1108	1007	870	834	553	225	95
2000	80	75	250	381	448	483	478	497	538	310	121	84
2001	79	162	347	354	360	374	380	400	363	176	94	83
2002	81	83	267	328	354	356	365	385	349	186	100	87
2003	84	83	273	348	389	378	345	302	363	221	101	83

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Percent Change in Average Simulated 60 Deg F Cold Water Pool Volume-Temp Flat Reservoir (TAF)
From No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					0%	0%	0%	0%	0%	0%	0%	0%
1981	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1982	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1983	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1984	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1985	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1986	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1987	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1988	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1989	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1990	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1991	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1992	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1993	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1994	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1995	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1996	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1997	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1998	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1999	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
2000	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
2001	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
2002	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
2003	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 60 Deg F Cold Water Pool Volume-Temp Flat Reservoir (TAF)
No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					0	0	0	0	0	0	0	0
1981	0	0	0	0	0	0	0	0	0	0	0	0
1982	0	0	0	0	0	0	0	0	0	0	0	0
1983	0	0	0	0	0	0	0	0	0	0	0	0
1984	0	0	0	0	0	0	0	0	0	0	0	0
1985	0	0	0	0	0	0	0	0	0	0	0	0
1986	0	0	0	0	0	0	0	0	0	0	0	0
1987	0	0	0	0	0	0	0	0	0	0	0	0
1988	0	0	0	0	0	0	0	0	0	0	0	0
1989	0	0	0	0	0	0	0	0	0	0	0	0
1990	0	0	0	0	0	0	0	0	0	0	0	0
1991	0	0	0	0	0	0	0	0	0	0	0	0
1992	0	0	0	0	0	0	0	0	0	0	0	0
1993	0	0	0	0	0	0	0	0	0	0	0	0
1994	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0	0	0	0	0	0
2002	0	0	0	0	0	0	0	0	0	0	0	0
2003	0	0	0	0	0	0	0	0	0	0	0	0

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 60 Deg F Cold Water Pool Volume-Temp Flat Reservoir (TAF)
Alternative2 (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					838	1000	1008	1003	989	1078	767	449
1981	228	258	781	760	733	716	652	636	526	276	109	85
1982	79	118	340	423	500	611	700	879	1040	1022	718	410
1983	239	543	1228	1333	1334	1332	1286	1235	1322	1279	1132	859
1984	663	707	1333	1333	1334	1283	1204	1111	1085	848	513	227
1985	109	96	590	627	593	569	553	577	476	262	109	87
1986	82	179	326	384	510	813	921	973	1147	1084	743	444
1987	232	136	634	636	593	576	536	550	438	242	109	89
1988	86	114	247	280	303	298	313	323	265	146	99	92
1989	89	121	205	215	226	244	294	350	274	149	99	91
1990	90	149	232	243	256	250	272	297	217	140	100	92
1991	90	152	204	204	203	204	198	191	209	156	93	81
1992	80	127	224	241	264	285	305	367	270	135	97	90
1993	88	126	213	310	435	488	488	485	607	605	291	112
1994	85	123	387	390	393	411	405	410	357	202	110	92
1995	91	218	293	399	549	668	750	804	1020	1258	1019	682
1996	464	332	712	1104	1156	1206	1144	1160	1186	1042	681	378
1997	179	116	654	1231	1300	1262	1196	1193	1149	940	590	297
1998	131	93	399	607	715	764	807	738	852	1216	927	608
1999	391	550	1099	1106	1131	1106	1004	865	831	554	230	97
2000	81	75	251	385	453	487	480	499	540	314	124	85
2001	80	156	354	360	365	378	383	403	372	182	94	83
2002	81	82	266	328	353	356	364	385	348	185	100	87
2003	84	82	273	347	389	377	343	301	363	222	102	84

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Change in Average Simulated 60 Deg F Cold Water Pool Volume-Temp Flat Reservoir (TAF)
Alternative2 (2030) - No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					838	1000	1008	1003	989	1078	767	449
1981	228	258	781	760	733	716	652	636	526	276	109	85
1982	79	118	340	423	500	611	700	879	1040	1022	718	410
1983	239	543	1228	1333	1334	1332	1286	1235	1322	1279	1132	859
1984	663	707	1333	1333	1334	1283	1204	1111	1085	848	513	227
1985	109	96	590	627	593	569	553	577	476	262	109	87
1986	82	179	326	384	510	813	921	973	1147	1084	743	444
1987	232	136	634	636	593	576	536	550	438	242	109	89
1988	86	114	247	280	303	298	313	323	265	146	99	92
1989	89	121	205	215	226	244	294	350	274	149	99	91
1990	90	149	232	243	256	250	272	297	217	140	100	92
1991	90	152	204	204	203	204	198	191	209	156	93	81
1992	80	127	224	241	264	285	305	367	270	135	97	90
1993	88	126	213	310	435	488	488	485	607	605	291	112
1994	85	123	387	390	393	411	405	410	357	202	110	92
1995	91	218	293	399	549	668	750	804	1020	1258	1019	682
1996	464	332	712	1104	1156	1206	1144	1160	1186	1042	681	378
1997	179	116	654	1231	1300	1262	1196	1193	1149	940	590	297
1998	131	93	399	607	715	764	807	738	852	1216	927	608
1999	391	550	1099	1106	1131	1106	1004	865	831	554	230	97
2000	81	75	251	385	453	487	480	499	540	314	124	85
2001	80	156	354	360	365	378	383	403	372	182	94	83
2002	81	82	266	328	353	356	364	385	348	185	100	87
2003	84	82	273	347	389	377	343	301	363	222	102	84

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Percent Change in Average Simulated 60 Deg F Cold Water Pool Volume-Temp Flat Reservoir (TAF)
From No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					0%	0%	0%	0%	0%	0%	0%	0%
1981	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1982	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1983	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1984	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1985	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1986	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1987	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1988	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1989	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1990	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1991	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1992	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1993	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1994	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1995	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1996	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1997	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1998	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1999	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
2000	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
2001	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
2002	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
2003	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 60 Deg F Cold Water Pool Volume-Temp Flat Reservoir (TAF)
No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					0	0	0	0	0	0	0	0
1981	0	0	0	0	0	0	0	0	0	0	0	0
1982	0	0	0	0	0	0	0	0	0	0	0	0
1983	0	0	0	0	0	0	0	0	0	0	0	0
1984	0	0	0	0	0	0	0	0	0	0	0	0
1985	0	0	0	0	0	0	0	0	0	0	0	0
1986	0	0	0	0	0	0	0	0	0	0	0	0
1987	0	0	0	0	0	0	0	0	0	0	0	0
1988	0	0	0	0	0	0	0	0	0	0	0	0
1989	0	0	0	0	0	0	0	0	0	0	0	0
1990	0	0	0	0	0	0	0	0	0	0	0	0
1991	0	0	0	0	0	0	0	0	0	0	0	0
1992	0	0	0	0	0	0	0	0	0	0	0	0
1993	0	0	0	0	0	0	0	0	0	0	0	0
1994	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0	0	0	0	0	0
2002	0	0	0	0	0	0	0	0	0	0	0	0
2003	0	0	0	0	0	0	0	0	0	0	0	0

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 60 Deg F Cold Water Pool Volume-Temp Flat Reservoir (TAF)
Alternative3 (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					846	1008	1016	1012	995	1080	737	387
1981	182	224	774	761	736	717	651	628	511	255	101	82
1982	79	129	341	433	512	621	708	889	1052	1048	770	466
1983	301	635	1250	1334	1334	1333	1286	1236	1322	1279	1133	861
1984	663	708	1334	1334	1334	1283	1204	1111	1066	792	438	174
1985	96	92	579	626	595	569	548	564	453	229	100	84
1986	82	183	314	378	505	809	917	971	1146	1083	747	454
1987	249	140	636	636	590	572	533	547	435	238	108	88
1988	86	114	245	278	301	296	309	320	264	147	99	91
1989	89	121	205	212	223	241	292	347	269	143	98	90
1990	89	150	229	240	253	247	269	294	216	141	99	91
1991	89	152	205	204	204	205	198	189	207	154	92	81
1992	80	128	221	238	261	282	302	365	268	134	97	90
1993	88	126	211	307	432	484	485	482	602	606	292	102
1994	82	126	380	391	397	414	408	411	357	201	109	91
1995	90	219	290	396	547	664	746	801	1014	1259	1020	671
1996	440	312	699	1103	1156	1205	1143	1161	1186	996	608	306
1997	142	104	593	1219	1301	1263	1198	1194	1145	920	545	245
1998	114	90	394	609	719	766	808	739	840	1206	920	615
1999	411	593	1150	1166	1196	1166	1060	915	859	552	208	90
2000	79	73	253	391	460	490	481	498	522	275	108	82
2001	78	170	348	363	370	382	385	404	373	182	94	83
2002	81	83	265	326	351	353	361	383	343	182	99	87
2003	84	83	273	345	386	373	339	294	350	202	97	82

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Change in Average Simulated 60 Deg F Cold Water Pool Volume-Temp Flat Reservoir (TAF)
Alternative3 (2030) - No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					846	1008	1016	1012	995	1080	737	387
1981	182	224	774	761	736	717	651	628	511	255	101	82
1982	79	129	341	433	512	621	708	889	1052	1048	770	466
1983	301	635	1250	1334	1334	1333	1286	1236	1322	1279	1133	861
1984	663	708	1334	1334	1334	1283	1204	1111	1066	792	438	174
1985	96	92	579	626	595	569	548	564	453	229	100	84
1986	82	183	314	378	505	809	917	971	1146	1083	747	454
1987	249	140	636	636	590	572	533	547	435	238	108	88
1988	86	114	245	278	301	296	309	320	264	147	99	91
1989	89	121	205	212	223	241	292	347	269	143	98	90
1990	89	150	229	240	253	247	269	294	216	141	99	91
1991	89	152	205	204	204	205	198	189	207	154	92	81
1992	80	128	221	238	261	282	302	365	268	134	97	90
1993	88	126	211	307	432	484	485	482	602	606	292	102
1994	82	126	380	391	397	414	408	411	357	201	109	91
1995	90	219	290	396	547	664	746	801	1014	1259	1020	671
1996	440	312	699	1103	1156	1205	1143	1161	1186	996	608	306
1997	142	104	593	1219	1301	1263	1198	1194	1145	920	545	245
1998	114	90	394	609	719	766	808	739	840	1206	920	615
1999	411	593	1150	1166	1196	1166	1060	915	859	552	208	90
2000	79	73	253	391	460	490	481	498	522	275	108	82
2001	78	170	348	363	370	382	385	404	373	182	94	83
2002	81	83	265	326	351	353	361	383	343	182	99	87
2003	84	83	273	345	386	373	339	294	350	202	97	82

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Percent Change in Average Simulated 60 Deg F Cold Water Pool Volume-Temp Flat Reservoir (TAF)
From No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					0%	0%	0%	0%	0%	0%	0%	0%
1981	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1982	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1983	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1984	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1985	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1986	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1987	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1988	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1989	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1990	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1991	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1992	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1993	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1994	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1995	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1996	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1997	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1998	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1999	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
2000	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
2001	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
2002	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
2003	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 60 Deg F Cold Water Pool Volume-Temp Flat Reservoir (TAF)
No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					0	0	0	0	0	0	0	0
1981	0	0	0	0	0	0	0	0	0	0	0	0
1982	0	0	0	0	0	0	0	0	0	0	0	0
1983	0	0	0	0	0	0	0	0	0	0	0	0
1984	0	0	0	0	0	0	0	0	0	0	0	0
1985	0	0	0	0	0	0	0	0	0	0	0	0
1986	0	0	0	0	0	0	0	0	0	0	0	0
1987	0	0	0	0	0	0	0	0	0	0	0	0
1988	0	0	0	0	0	0	0	0	0	0	0	0
1989	0	0	0	0	0	0	0	0	0	0	0	0
1990	0	0	0	0	0	0	0	0	0	0	0	0
1991	0	0	0	0	0	0	0	0	0	0	0	0
1992	0	0	0	0	0	0	0	0	0	0	0	0
1993	0	0	0	0	0	0	0	0	0	0	0	0
1994	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0	0	0	0	0	0
2002	0	0	0	0	0	0	0	0	0	0	0	0
2003	0	0	0	0	0	0	0	0	0	0	0	0

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 60 Deg F Cold Water Pool Volume-Temp Flat Reservoir (TAF)
Alternative4 (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					993	1155	1161	1152	1140	1211	1094	799
1981	562	646	933	914	885	866	788	759	657	491	386	231
1982	143	170	490	576	653	762	844	1030	1189	1200	1062	780
1983	594	945	1335	1335	1335	1334	1288	1237	1325	1281	1172	957
1984	751	799	1335	1335	1335	1285	1210	1125	1108	937	741	496
1985	315	370	697	699	670	649	629	654	575	459	306	169
1986	118	234	448	508	633	933	1050	1103	1247	1191	943	660
1987	453	426	783	760	716	696	643	658	565	458	306	177
1988	122	119	367	401	424	415	422	432	373	268	210	144
1989	115	113	312	336	347	362	403	459	404	283	216	144
1990	115	133	353	364	377	368	384	404	318	244	208	158
1991	121	165	330	330	329	330	320	308	323	263	201	134
1992	111	118	345	362	385	405	417	483	416	283	221	155
1993	118	115	336	431	556	603	603	597	723	739	505	262
1994	141	160	514	519	521	530	517	527	506	409	272	170
1995	122	264	414	520	671	785	860	932	1140	1271	1113	816
1996	587	460	874	1119	1171	1221	1161	1177	1196	1074	820	558
1997	357	246	871	1238	1302	1266	1202	1197	1158	985	776	555
1998	374	293	659	683	794	844	888	856	952	1245	1032	749
1999	532	750	1120	1130	1158	1137	1029	888	881	723	477	272
2000	155	116	343	486	556	584	570	593	651	512	397	252
2001	163	265	480	488	493	499	490	525	524	413	257	151
2002	113	109	345	449	474	473	468	505	500	413	266	162
2003	117	111	300	469	510	489	452	411	497	429	264	147

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Change in Average Simulated 60 Deg F Cold Water Pool Volume-Temp Flat Reservoir (TAF)
Alternative4 (2030) - No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					993	1155	1161	1152	1140	1211	1094	799
1981	562	646	933	914	885	866	788	759	657	491	386	231
1982	143	170	490	576	653	762	844	1030	1189	1200	1062	780
1983	594	945	1335	1335	1335	1334	1288	1237	1325	1281	1172	957
1984	751	799	1335	1335	1335	1285	1210	1125	1108	937	741	496
1985	315	370	697	699	670	649	629	654	575	459	306	169
1986	118	234	448	508	633	933	1050	1103	1247	1191	943	660
1987	453	426	783	760	716	696	643	658	565	458	306	177
1988	122	119	367	401	424	415	422	432	373	268	210	144
1989	115	113	312	336	347	362	403	459	404	283	216	144
1990	115	133	353	364	377	368	384	404	318	244	208	158
1991	121	165	330	330	329	330	320	308	323	263	201	134
1992	111	118	345	362	385	405	417	483	416	283	221	155
1993	118	115	336	431	556	603	603	597	723	739	505	262
1994	141	160	514	519	521	530	517	527	506	409	272	170
1995	122	264	414	520	671	785	860	932	1140	1271	1113	816
1996	587	460	874	1119	1171	1221	1161	1177	1196	1074	820	558
1997	357	246	871	1238	1302	1266	1202	1197	1158	985	776	555
1998	374	293	659	683	794	844	888	856	952	1245	1032	749
1999	532	750	1120	1130	1158	1137	1029	888	881	723	477	272
2000	155	116	343	486	556	584	570	593	651	512	397	252
2001	163	265	480	488	493	499	490	525	524	413	257	151
2002	113	109	345	449	474	473	468	505	500	413	266	162
2003	117	111	300	469	510	489	452	411	497	429	264	147

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Percent Change in Average Simulated 60 Deg F Cold Water Pool Volume-Temp Flat Reservoir (TAF)
From No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					0%	0%	0%	0%	0%	0%	0%	0%
1981	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1982	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1983	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1984	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1985	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1986	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1987	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1988	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1989	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1990	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1991	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1992	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1993	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1994	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1995	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1996	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1997	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1998	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1999	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
2000	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
2001	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
2002	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
2003	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 52 Deg F Cold Water Pool Volume-Millerton Lake and Temp Flat Reservoir (TAF)
Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					411	358	281	247	93	4	2	2
1981	2	3	7	180	369	312	234	142	77	42	20	12
1982	8	5	18	342	403	400	395	333	131	13	6	5
1983	3	1	22	374	389	344	202	75	329	200	60	30
1984	16	10	15	265	388	346	242	104	59	30	14	9
1985	6	5	24	356	369	303	237	143	87	54	28	15
1986	10	6	49	294	353	355	360	273	89	17	11	8
1987	6	6	8	226	297	282	230	152	92	60	35	19
1988	13	10	39	231	231	193	185	142	91	59	34	19
1989	13	11	29	184	193	170	151	133	78	47	24	14
1990	10	8	25	210	227	176	168	134	80	50	26	15
1991	10	9	55	161	135	108	98	46	26	11	6	4
1992	3	2	28	218	240	188	173	138	85	51	26	14
1993	10	8	28	284	380	325	231	175	137	40	18	10
1994	8	6	11	256	359	279	212	146	88	55	30	17
1995	10	6	114	315	367	332	245	186	77	8	0	0
1996	0	1	3	106	284	339	247	146	75	37	17	11
1997	8	5	24	387	348	353	254	89	7	2	1	1
1998	1	1	7	175	392	319	312	128	20	2	0	0
1999	0	0	10	302	374	306	219	128	75	44	22	13
2000	9	7	6	83	222	269	218	108	56	27	13	9
2001	7	6	14	179	263	230	178	108	64	35	18	12
2002	9	8	13	211	257	194	171	135	79	45	22	13
2003	9	8	11	122	235	204	139	90	54	25	13	9

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 52 Deg F Cold Water Pool Volume-Millerton Lake and Temp Flat Reservoir (TAF)
Alternative1 (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					704	1025	1060	1062	694	185	85	64
1981	58	57	53	60	297	396	531	495	289	84	54	51
1982	50	48	47	352	772	762	897	1092	805	389	151	68
1983	62	61	61	491	815	1039	1182	1190	1004	732	261	109
1984	76	71	70	283	574	746	832	749	516	291	85	58
1985	54	53	46	159	467	535	523	487	334	133	69	59
1986	55	51	47	232	483	852	1057	1118	671	369	170	73
1987	63	61	59	179	234	347	472	445	285	128	78	68
1988	65	63	60	251	352	388	424	399	311	189	138	113
1989	91	78	79	236	373	348	363	370	277	164	125	100
1990	82	73	73	213	300	327	377	375	296	191	146	119
1991	96	80	99	218	228	256	273	216	138	89	72	65
1992	62	56	53	236	318	351	388	367	279	164	123	98
1993	82	72	70	329	475	559	619	613	537	238	77	61
1994	59	57	51	56	176	428	468	425	292	146	100	81
1995	71	62	72	380	595	738	869	979	673	169	79	66
1996	60	59	59	60	193	577	751	514	195	88	61	52
1997	50	50	49	589	1145	1328	1295	936	548	300	82	62
1998	58	57	53	81	364	673	839	748	489	110	66	56
1999	53	52	49	252	444	563	599	475	279	80	55	51
2000	49	49	46	57	161	378	477	361	173	72	58	54
2001	52	50	44	73	215	383	405	317	182	104	77	68
2002	65	62	56	231	356	366	379	368	243	128	93	77
2003	69	65	60	146	329	368	356	289	154	85	66	61

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Change in Average Simulated 52 Deg F Cold Water Pool Volume-Millerton Lake and Temp Flat Reservoir (TAF)
Alternative1 (2005) - Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					293	667	779	816	602	181	82	62
1981	55	54	46	-120	-72	83	297	352	212	42	34	39
1982	42	43	29	10	369	363	502	759	674	375	145	63
1983	59	59	39	116	426	695	980	1114	674	532	201	79
1984	60	61	55	18	187	400	590	645	457	261	70	49
1985	47	48	22	-198	98	232	285	344	247	79	41	44
1986	45	45	-2	-62	130	496	697	845	582	352	160	65
1987	57	55	50	-48	-62	65	242	293	193	68	43	49
1988	52	52	20	20	121	194	238	257	220	130	104	94
1989	79	68	49	52	179	178	212	237	199	117	100	85
1990	72	64	48	3	73	151	209	241	216	141	119	105
1991	86	72	44	57	93	148	175	169	112	78	66	62
1992	59	55	25	17	78	164	215	230	193	112	97	84
1993	72	64	43	44	94	234	389	438	400	198	58	51
1994	51	51	40	-200	-183	150	256	279	204	91	69	64
1995	61	56	-42	64	227	406	623	793	596	161	79	65
1996	59	58	56	-46	-91	238	504	368	121	51	43	42
1997	42	44	26	202	797	975	1041	848	541	299	81	61
1998	57	56	46	-95	-29	353	527	621	470	109	66	56
1999	53	52	39	-50	70	256	380	346	204	35	33	38
2000	40	41	40	-26	-61	110	259	253	117	45	45	45
2001	45	44	31	-106	-48	153	227	210	118	69	59	56
2002	56	55	43	20	99	172	208	233	164	84	71	64
2003	60	58	49	24	93	164	218	199	101	60	54	52

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Percent Change in Average Simulated 52 Deg F Cold Water Pool Volume-Millerton Lake and Temp Flat Reservoir (TAF)
From Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					71%	186%	277%	331%	650%	4690%	3695%	2612%
1981	2288%	2047%	621%	-67%	-19%	27%	127%	248%	277%	101%	173%	335%
1982	501%	825%	158%	3%	92%	91%	127%	228%	516%	2792%	2266%	1365%
1983	1994%	4159%	176%	31%	110%	202%	485%	1476%	205%	266%	338%	268%
1984	382%	631%	368%	7%	48%	115%	244%	623%	774%	884%	485%	532%
1985	744%	997%	93%	-55%	26%	77%	120%	240%	284%	147%	148%	283%
1986	441%	767%	-5%	-21%	37%	140%	194%	309%	653%	2097%	1500%	832%
1987	885%	948%	598%	-21%	-21%	23%	105%	193%	210%	113%	125%	255%
1988	401%	500%	52%	9%	52%	101%	129%	181%	241%	219%	303%	496%
1989	614%	640%	167%	28%	93%	105%	140%	178%	254%	249%	410%	600%
1990	724%	763%	194%	1%	32%	86%	124%	180%	268%	281%	452%	718%
1991	821%	809%	81%	35%	69%	137%	179%	366%	423%	706%	1104%	1654%
1992	2126%	3338%	88%	8%	32%	87%	124%	167%	227%	219%	375%	588%
1993	738%	804%	155%	16%	25%	72%	168%	250%	293%	500%	318%	485%
1994	663%	807%	360%	-78%	-51%	54%	121%	191%	232%	164%	227%	381%
1995	590%	959%	-37%	20%	62%	122%	254%	426%	779%	2077%	39846%	22243%
1996	14655%	8676%	1775%	-44%	-32%	70%	204%	253%	161%	139%	252%	382%
1997	505%	807%	108%	52%	229%	276%	409%	956%	8106%	19680%	6523%	5954%
1998	7004%	6681%	621%	-54%	-7%	111%	169%	487%	2383%	5814%	625508%	734402%
1999	685977%	675790%	385%	-17%	19%	84%	174%	270%	271%	79%	150%	294%
2000	426%	566%	678%	-31%	-27%	41%	119%	234%	207%	167%	339%	504%
2001	646%	714%	223%	-59%	-18%	67%	128%	195%	184%	196%	321%	480%
2002	648%	710%	332%	9%	39%	89%	122%	173%	209%	187%	332%	505%
2003	663%	757%	443%	20%	40%	80%	157%	220%	188%	239%	423%	603%

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 52 Deg F Cold Water Pool Volume-Millerton Lake and Temp Flat Reservoir (TAF)
Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					411	358	281	247	93	4	2	2
1981	2	3	7	180	369	312	234	142	77	42	20	12
1982	8	5	18	342	403	400	395	333	131	13	6	5
1983	3	1	22	374	389	344	202	75	329	200	60	30
1984	16	10	15	265	388	346	242	104	59	30	14	9
1985	6	5	24	356	369	303	237	143	87	54	28	15
1986	10	6	49	294	353	355	360	273	89	17	11	8
1987	6	6	8	226	297	282	230	152	92	60	35	19
1988	13	10	39	231	231	193	185	142	91	59	34	19
1989	13	11	29	184	193	170	151	133	78	47	24	14
1990	10	8	25	210	227	176	168	134	80	50	26	15
1991	10	9	55	161	135	108	98	46	26	11	6	4
1992	3	2	28	218	240	188	173	138	85	51	26	14
1993	10	8	28	284	380	325	231	175	137	40	18	10
1994	8	6	11	256	359	279	212	146	88	55	30	17
1995	10	6	114	315	367	332	245	186	77	8	0	0
1996	0	1	3	106	284	339	247	146	75	37	17	11
1997	8	5	24	387	348	353	254	89	7	2	1	1
1998	1	1	7	175	392	319	312	128	20	2	0	0
1999	0	0	10	302	374	306	219	128	75	44	22	13
2000	9	7	6	83	222	269	218	108	56	27	13	9
2001	7	6	14	179	263	230	178	108	64	35	18	12
2002	9	8	13	211	257	194	171	135	79	45	22	13
2003	9	8	11	122	235	204	139	90	54	25	13	9

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 52 Deg F Cold Water Pool Volume-Millerton Lake and Temp Flat Reservoir (TAF)
Alternative2 (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					702	1012	1049	1039	691	181	81	63
1981	57	56	52	54	222	392	535	513	314	103	57	53
1982	52	49	46	339	766	763	898	1097	812	396	159	70
1983	63	61	62	491	816	1041	1184	1191	1003	733	262	109
1984	78	72	70	286	577	747	833	751	520	297	87	58
1985	54	53	46	152	463	535	521	487	338	141	71	61
1986	57	53	49	223	475	850	1062	1126	667	366	149	68
1987	62	60	58	149	206	342	471	435	284	131	79	70
1988	66	64	60	252	354	390	426	404	314	190	138	113
1989	92	78	78	236	384	351	366	370	277	164	125	100
1990	82	73	73	208	303	332	380	375	295	191	146	120
1991	96	81	98	220	230	257	275	215	138	87	72	65
1992	62	56	53	236	325	355	388	368	279	164	123	98
1993	82	72	70	329	477	563	618	614	527	234	72	61
1994	58	57	51	59	186	426	465	419	289	147	102	82
1995	72	63	73	383	599	740	868	978	669	168	79	66
1996	59	58	58	59	192	572	747	521	203	89	60	52
1997	50	50	50	596	1157	1331	1297	945	553	299	86	61
1998	57	57	52	83	376	676	833	752	508	119	67	57
1999	54	53	50	265	446	566	606	490	293	85	56	51
2000	50	49	46	55	152	368	463	360	183	74	58	54
2001	52	50	45	66	202	382	410	326	187	106	77	68
2002	64	62	55	222	358	369	383	369	245	128	93	77
2003	69	65	60	144	327	370	354	286	153	84	66	61

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Change in Average Simulated 52 Deg F Cold Water Pool Volume-Millerton Lake and Temp Flat Reservoir (TAF)
Alternative2 (2005) - Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					291	654	768	792	599	177	79	61
1981	55	53	45	-126	-146	80	300	371	238	61	37	42
1982	43	44	28	-3	363	363	503	764	681	382	153	65
1983	60	60	40	117	427	697	982	1115	674	532	202	80
1984	62	62	55	21	189	401	591	648	461	267	72	49
1985	48	48	23	-205	93	232	284	344	251	87	43	45
1986	47	48	-1	-71	123	495	702	853	578	350	139	60
1987	55	54	49	-77	-91	60	241	283	192	71	45	51
1988	53	53	21	21	123	197	241	263	223	131	104	94
1989	79	68	49	52	191	182	214	237	199	117	100	86
1990	72	64	48	-2	76	156	212	241	215	141	120	105
1991	86	72	43	59	95	149	177	169	111	76	66	61
1992	59	55	24	18	85	167	215	230	194	113	97	84
1993	72	64	43	45	97	237	388	439	390	195	54	50
1994	51	51	40	-197	-172	147	253	273	201	92	71	65
1995	61	57	-41	68	231	407	623	792	593	160	79	65
1996	59	58	55	-47	-93	233	500	375	128	52	43	42
1997	42	44	26	209	808	978	1043	856	547	297	85	60
1998	57	56	45	-92	-17	357	520	624	488	117	67	57
1999	54	53	40	-38	72	260	388	361	218	41	34	38
2000	40	42	40	-28	-70	100	245	252	127	47	45	45
2001	45	44	31	-113	-61	152	232	218	122	70	58	56
2002	56	54	42	11	101	175	212	235	166	83	71	64
2003	60	57	49	22	92	166	216	196	100	59	53	52

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Percent Change in Average Simulated 52 Deg F Cold Water Pool Volume-Millerton Lake and Temp Flat Reservoir (TAF)
From Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					71%	183%	273%	321%	647%	4579%	3558%	2569%
1981	2266%	2018%	611%	-70%	-40%	26%	128%	261%	310%	146%	190%	354%
1982	522%	851%	156%	-1%	90%	91%	127%	230%	521%	2844%	2391%	1408%
1983	2028%	4221%	179%	31%	110%	203%	486%	1477%	205%	266%	340%	270%
1984	390%	640%	369%	8%	49%	116%	244%	625%	780%	903%	497%	531%
1985	748%	1004%	94%	-57%	25%	77%	120%	240%	289%	162%	156%	293%
1986	459%	802%	-2%	-24%	35%	139%	195%	312%	650%	2079%	1304%	764%
1987	861%	931%	585%	-34%	-31%	21%	105%	186%	209%	118%	130%	263%
1988	411%	509%	53%	9%	53%	102%	130%	185%	245%	222%	303%	497%
1989	616%	641%	165%	28%	99%	107%	142%	178%	254%	249%	409%	600%
1990	726%	766%	194%	-1%	33%	89%	126%	180%	267%	280%	452%	719%
1991	824%	812%	79%	37%	71%	137%	180%	365%	420%	694%	1092%	1646%
1992	2121%	3339%	87%	8%	35%	89%	124%	167%	228%	220%	375%	588%
1993	740%	806%	155%	16%	25%	73%	168%	250%	285%	491%	294%	479%
1994	659%	802%	358%	-77%	-48%	53%	119%	187%	228%	165%	234%	389%
1995	598%	968%	-36%	21%	63%	123%	254%	426%	774%	2060%	39788%	22221%
1996	14613%	8619%	1761%	-44%	-33%	69%	202%	258%	172%	141%	250%	383%
1997	506%	807%	109%	54%	232%	277%	410%	965%	8191%	19575%	6844%	5917%
1998	6973%	6654%	613%	-53%	-4%	112%	167%	489%	2476%	6279%	633923%	746912%
1999	697802%	686681%	394%	-12%	19%	85%	177%	282%	289%	92%	154%	299%
2000	432%	573%	687%	-34%	-32%	37%	112%	234%	225%	174%	341%	504%
2001	644%	718%	227%	-63%	-23%	66%	131%	203%	191%	200%	321%	476%
2002	643%	706%	328%	5%	39%	90%	124%	174%	211%	186%	331%	504%
2003	661%	754%	442%	18%	39%	81%	156%	217%	187%	234%	422%	603%

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 52 Deg F Cold Water Pool Volume-Millerton Lake and Temp Flat Reservoir (TAF)
Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					411	358	281	247	93	4	2	2
1981	2	3	7	180	369	312	234	142	77	42	20	12
1982	8	5	18	342	403	400	395	333	131	13	6	5
1983	3	1	22	374	389	344	202	75	329	200	60	30
1984	16	10	15	265	388	346	242	104	59	30	14	9
1985	6	5	24	356	369	303	237	143	87	54	28	15
1986	10	6	49	294	353	355	360	273	89	17	11	8
1987	6	6	8	226	297	282	230	152	92	60	35	19
1988	13	10	39	231	231	193	185	142	91	59	34	19
1989	13	11	29	184	193	170	151	133	78	47	24	14
1990	10	8	25	210	227	176	168	134	80	50	26	15
1991	10	9	55	161	135	108	98	46	26	11	6	4
1992	3	2	28	218	240	188	173	138	85	51	26	14
1993	10	8	28	284	380	325	231	175	137	40	18	10
1994	8	6	11	256	359	279	212	146	88	55	30	17
1995	10	6	114	315	367	332	245	186	77	8	0	0
1996	0	1	3	106	284	339	247	146	75	37	17	11
1997	8	5	24	387	348	353	254	89	7	2	1	1
1998	1	1	7	175	392	319	312	128	20	2	0	0
1999	0	0	10	302	374	306	219	128	75	44	22	13
2000	9	7	6	83	222	269	218	108	56	27	13	9
2001	7	6	14	179	263	230	178	108	64	35	18	12
2002	9	8	13	211	257	194	171	135	79	45	22	13
2003	9	8	11	122	235	204	139	90	54	25	13	9

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 52 Deg F Cold Water Pool Volume-Millerton Lake and Temp Flat Reservoir (TAF)
Alternative3 (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					682	945	962	915	602	242	70	55
1981	52	52	48	49	152	403	529	495	309	110	62	57
1982	55	52	49	370	744	737	826	959	735	335	109	68
1983	62	60	60	507	826	1049	1185	1192	1003	731	261	109
1984	77	71	70	289	578	746	797	683	452	159	61	52
1985	50	49	43	109	489	551	501	443	288	115	71	63
1986	59	54	51	247	486	820	989	1015	669	278	95	66
1987	62	60	56	52	102	348	467	423	281	134	89	76
1988	70	66	64	257	340	376	406	374	290	184	139	114
1989	92	79	79	218	385	333	350	363	277	167	128	102
1990	84	74	74	222	276	307	357	361	290	190	145	120
1991	97	81	100	220	224	258	269	197	124	80	67	62
1992	59	54	52	223	329	326	365	347	268	164	126	101
1993	83	73	76	312	454	533	544	466	355	93	59	53
1994	52	51	47	107	304	431	440	400	283	154	112	89
1995	75	64	75	389	567	707	797	855	665	185	77	64
1996	58	57	57	58	183	557	706	477	180	76	55	49
1997	48	47	48	601	1180	1330	1259	917	538	258	72	59
1998	56	56	52	83	379	672	790	700	476	168	66	58
1999	54	53	50	239	423	551	568	394	162	61	49	46
2000	44	44	41	61	233	427	473	334	150	70	59	56
2001	54	52	46	83	225	369	382	294	172	105	79	70
2002	66	64	58	230	339	347	358	334	221	126	94	78
2003	70	66	61	151	318	355	338	269	145	85	68	62

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Change in Average Simulated 52 Deg F Cold Water Pool Volume-Millerton Lake and Temp Flat Reservoir (TAF)
Alternative3 (2005) - Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					271	587	681	668	510	238	68	53
1981	50	49	41	-131	-217	91	295	352	233	68	43	46
1982	47	47	30	28	342	337	431	626	604	321	103	63
1983	59	59	38	133	437	705	983	1117	673	531	201	80
1984	61	62	55	24	190	400	555	580	393	129	46	43
1985	44	45	19	-247	119	248	264	300	201	61	43	47
1986	49	48	1	-47	133	465	629	742	580	261	84	58
1987	55	54	47	-174	-195	66	237	271	189	74	54	57
1988	57	56	25	26	109	182	221	233	199	124	105	95
1989	79	68	50	34	192	163	198	230	199	120	103	88
1990	74	65	50	11	49	131	189	227	209	140	119	106
1991	86	73	45	59	89	150	171	151	98	69	61	58
1992	56	52	24	5	88	139	192	209	182	113	100	87
1993	74	65	49	28	74	207	313	291	218	54	41	43
1994	44	45	35	-149	-55	152	228	254	194	99	82	72
1995	64	58	-39	73	200	375	552	669	589	177	76	63
1996	58	57	54	-49	-102	218	459	331	105	39	37	38
1997	40	42	24	214	832	977	1004	828	531	256	71	58
1998	55	55	44	-92	-13	353	477	573	456	166	66	58
1999	54	53	40	-63	49	245	349	265	87	16	27	33
2000	35	37	35	-22	10	159	255	226	94	43	46	47
2001	47	46	32	-96	-38	139	204	187	108	69	60	58
2002	58	56	45	19	82	153	187	199	142	81	72	65
2003	61	58	50	29	83	151	199	179	92	60	55	54

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Percent Change in Average Simulated 52 Deg F Cold Water Pool Volume-Millerton Lake and Temp Flat Reservoir (TAF)
From Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					66%	164%	242%	271%	551%	6167%	3042%	2217%
1981	2067%	1861%	552%	-73%	-59%	29%	126%	248%	304%	163%	218%	388%
1982	564%	900%	169%	8%	85%	84%	109%	188%	462%	2391%	1609%	1373%
1983	1997%	4123%	170%	35%	112%	205%	486%	1479%	205%	265%	338%	269%
1984	387%	638%	369%	9%	49%	116%	229%	559%	665%	436%	318%	473%
1985	689%	930%	81%	-69%	32%	82%	111%	210%	231%	113%	156%	307%
1986	476%	813%	3%	-16%	38%	131%	175%	272%	651%	1555%	794%	740%
1987	863%	931%	563%	-77%	-66%	23%	103%	178%	206%	123%	157%	296%
1988	442%	533%	63%	11%	47%	94%	119%	164%	219%	210%	305%	501%
1989	618%	645%	169%	18%	99%	96%	131%	173%	254%	256%	422%	618%
1990	739%	776%	200%	5%	22%	75%	113%	170%	261%	278%	449%	724%
1991	828%	821%	81%	36%	66%	138%	174%	327%	369%	631%	1020%	1567%
1992	2023%	3188%	84%	2%	37%	74%	111%	152%	214%	221%	389%	611%
1993	757%	821%	176%	10%	20%	64%	136%	166%	160%	136%	223%	407%
1994	579%	711%	320%	-58%	-15%	55%	107%	174%	221%	179%	269%	429%
1995	628%	995%	-35%	23%	54%	113%	225%	360%	769%	2280%	38580%	21575%
1996	14279%	8460%	1727%	-46%	-36%	64%	186%	227%	140%	106%	217%	354%
1997	476%	763%	102%	55%	239%	277%	395%	933%	7962%	16867%	5749%	5652%
1998	6822%	6514%	602%	-53%	-3%	111%	153%	449%	2314%	8914%	630474%	753635%
1999	708974%	696734%	395%	-21%	13%	80%	160%	207%	115%	37%	122%	256%
2000	375%	502%	600%	-27%	5%	59%	117%	209%	166%	158%	347%	525%
2001	674%	740%	237%	-54%	-14%	60%	115%	174%	167%	197%	331%	493%
2002	664%	728%	346%	9%	32%	79%	109%	148%	181%	182%	335%	512%
2003	671%	766%	449%	24%	35%	74%	144%	198%	172%	239%	434%	622%

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 52 Deg F Cold Water Pool Volume-Millerton Lake and Temp Flat Reservoir (TAF)
Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					411	358	281	247	93	4	2	2
1981	2	3	7	180	369	312	234	142	77	42	20	12
1982	8	5	18	342	403	400	395	333	131	13	6	5
1983	3	1	22	374	389	344	202	75	329	200	60	30
1984	16	10	15	265	388	346	242	104	59	30	14	9
1985	6	5	24	356	369	303	237	143	87	54	28	15
1986	10	6	49	294	353	355	360	273	89	17	11	8
1987	6	6	8	226	297	282	230	152	92	60	35	19
1988	13	10	39	231	231	193	185	142	91	59	34	19
1989	13	11	29	184	193	170	151	133	78	47	24	14
1990	10	8	25	210	227	176	168	134	80	50	26	15
1991	10	9	55	161	135	108	98	46	26	11	6	4
1992	3	2	28	218	240	188	173	138	85	51	26	14
1993	10	8	28	284	380	325	231	175	137	40	18	10
1994	8	6	11	256	359	279	212	146	88	55	30	17
1995	10	6	114	315	367	332	245	186	77	8	0	0
1996	0	1	3	106	284	339	247	146	75	37	17	11
1997	8	5	24	387	348	353	254	89	7	2	1	1
1998	1	1	7	175	392	319	312	128	20	2	0	0
1999	0	0	10	302	374	306	219	128	75	44	22	13
2000	9	7	6	83	222	269	218	108	56	27	13	9
2001	7	6	14	179	263	230	178	108	64	35	18	12
2002	9	8	13	211	257	194	171	135	79	45	22	13
2003	9	8	11	122	235	204	139	90	54	25	13	9

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 52 Deg F Cold Water Pool Volume-Millerton Lake and Temp Flat Reservoir (TAF)
Alternative4 (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					1070	1154	1144	1136	812	572	549	484
1981	305	191	189	428	483	553	622	609	514	381	312	268
1982	212	150	100	611	957	926	1008	1188	951	621	584	517
1983	337	214	103	630	881	1102	1212	1216	1112	872	592	499
1984	364	254	120	458	684	812	877	807	670	605	538	433
1985	270	161	162	429	565	650	621	577	449	359	266	227
1986	162	122	86	243	542	984	1172	1164	832	619	582	517
1987	354	242	213	436	418	537	596	529	426	353	246	226
1988	169	139	112	541	685	588	572	512	401	278	233	210
1989	170	140	116	350	663	500	466	459	373	258	217	201
1990	161	131	109	151	513	537	500	465	354	264	223	204
1991	165	135	114	393	463	361	350	244	172	143	133	98
1992	90	81	65	295	527	461	484	463	401	292	222	210
1993	168	135	106	321	584	676	711	707	693	523	493	420
1994	292	193	189	444	566	598	588	529	422	363	276	235
1995	178	138	119	618	840	897	951	996	783	469	449	404
1996	240	151	121	105	275	649	809	646	522	493	471	383
1997	263	146	108	788	1291	1364	1307	980	675	614	571	498
1998	349	254	193	400	692	822	948	828	612	431	427	372
1999	224	144	181	447	601	669	661	504	408	380	307	232
2000	148	106	80	84	234	464	539	430	315	286	262	197
2001	132	99	77	72	184	446	509	411	324	270	192	135
2002	108	98	79	164	360	421	456	468	379	306	216	205
2003	150	121	98	99	233	368	403	319	224	198	162	98

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Change in Average Simulated 52 Deg F Cold Water Pool Volume-Millerton Lake and Temp Flat Reservoir (TAF)
Alternative4 (2005) - Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					659	796	863	889	720	568	546	482
1981	302	188	182	248	115	241	387	467	437	339	293	256
1982	203	145	82	269	554	526	614	855	821	608	578	512
1983	334	213	81	255	492	759	1010	1140	783	672	532	469
1984	348	245	105	192	296	465	635	703	611	575	523	424
1985	264	156	138	72	196	346	384	433	362	305	238	212
1986	152	116	37	-51	189	629	812	891	743	602	571	509
1987	347	236	205	209	121	255	366	377	334	293	212	207
1988	156	128	73	310	454	394	387	370	310	219	198	191
1989	157	129	87	166	470	330	314	326	295	211	192	187
1990	151	122	84	-59	286	361	332	331	274	214	196	190
1991	154	126	59	232	328	253	252	198	145	132	127	94
1992	87	80	37	77	287	274	311	325	316	241	197	196
1993	158	128	79	37	204	350	480	532	556	484	474	409
1994	284	187	178	188	208	319	376	383	334	308	246	218
1995	168	132	5	303	472	565	706	810	706	461	449	404
1996	239	150	118	-2	-10	310	562	500	447	456	454	372
1997	255	141	85	401	943	1011	1053	892	668	612	570	497
1998	348	253	185	225	300	503	636	701	593	429	427	372
1999	224	144	171	145	228	363	442	375	333	335	285	219
2000	138	99	74	1	12	195	321	322	258	259	249	188
2001	125	93	64	-107	-79	217	331	303	259	235	174	124
2002	99	90	66	-47	103	227	285	333	300	261	194	193
2003	141	114	87	-23	-2	164	264	229	170	173	149	89

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Percent Change in Average Simulated 52 Deg F Cold Water Pool Volume-Millerton Lake and Temp Flat Reservoir (TAF)
From Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					160%	222%	307%	360%	778%	14714%	24533%	20324%
1981	12546%	7143%	2475%	138%	31%	77%	165%	328%	571%	810%	1490%	2182%
1982	2449%	2800%	456%	79%	138%	132%	155%	257%	628%	4522%	9036%	11106%
1983	11342%	14956%	366%	68%	126%	221%	499%	1510%	238%	336%	893%	1588%
1984	2200%	2530%	699%	72%	76%	134%	262%	679%	1033%	1944%	3613%	4631%
1985	4135%	3247%	577%	20%	53%	114%	162%	303%	416%	566%	855%	1372%
1986	1482%	1952%	75%	-17%	54%	177%	226%	326%	835%	3580%	5367%	6510%
1987	5411%	4037%	2435%	92%	41%	90%	159%	248%	363%	486%	613%	1080%
1988	1202%	1225%	184%	134%	196%	204%	209%	261%	341%	369%	578%	1007%
1989	1230%	1226%	295%	90%	243%	194%	208%	245%	377%	450%	785%	1311%
1990	1511%	1457%	340%	-28%	126%	205%	198%	247%	341%	425%	744%	1300%
1991	1478%	1428%	107%	144%	244%	234%	257%	427%	548%	1204%	2115%	2531%
1992	3118%	4852%	130%	35%	119%	146%	180%	236%	371%	470%	762%	1373%
1993	1624%	1605%	286%	13%	54%	108%	208%	303%	407%	1221%	2591%	3917%
1994	3699%	2968%	1606%	73%	58%	114%	177%	263%	379%	556%	809%	1299%
1995	1633%	2248%	4%	96%	129%	170%	288%	436%	922%	5939%	226626%	137318%
1996	59221%	22444%	3760%	-2%	-3%	91%	227%	343%	598%	1239%	2633%	3422%
1997	3071%	2569%	356%	104%	271%	286%	414%	1005%	10011%	40295%	46128%	48780%
1998	42860%	29989%	2520%	128%	76%	158%	204%	549%	3006%	22972%	4059857%	4855720%
1999	2916343%	1879564%	1675%	48%	61%	119%	202%	292%	442%	756%	1285%	1709%
2000	1478%	1353%	1261%	1%	5%	73%	147%	298%	457%	961%	1896%	2103%
2001	1778%	1509%	465%	-60%	-30%	94%	186%	282%	404%	666%	953%	1051%
2002	1144%	1174%	508%	-22%	40%	117%	166%	247%	382%	586%	903%	1514%
2003	1557%	1495%	782%	-19%	-1%	80%	191%	254%	319%	687%	1177%	1034%

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 52 Deg F Cold Water Pool Volume-Millerton Lake and Temp Flat Reservoir (TAF)
Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					411	358	281	247	93	4	2	2
1981	2	3	7	180	369	312	234	142	77	42	20	12
1982	8	5	18	342	403	400	395	333	131	13	6	5
1983	3	1	22	374	389	344	202	75	329	200	60	30
1984	16	10	15	265	388	346	242	104	59	30	14	9
1985	6	5	24	356	369	303	237	143	87	54	28	15
1986	10	6	49	294	353	355	360	273	89	17	11	8
1987	6	6	8	226	297	282	230	152	92	60	35	19
1988	13	10	39	231	231	193	185	142	91	59	34	19
1989	13	11	29	184	193	170	151	133	78	47	24	14
1990	10	8	25	210	227	176	168	134	80	50	26	15
1991	10	9	55	161	135	108	98	46	26	11	6	4
1992	3	2	28	218	240	188	173	138	85	51	26	14
1993	10	8	28	284	380	325	231	175	137	40	18	10
1994	8	6	11	256	359	279	212	146	88	55	30	17
1995	10	6	114	315	367	332	245	186	77	8	0	0
1996	0	1	3	106	284	339	247	146	75	37	17	11
1997	8	5	24	387	348	353	254	89	7	2	1	1
1998	1	1	7	175	392	319	312	128	20	2	0	0
1999	0	0	10	302	374	306	219	128	75	44	22	13
2000	9	7	6	83	222	269	218	108	56	27	13	9
2001	7	6	14	179	263	230	178	108	64	35	18	12
2002	9	8	13	211	257	194	171	135	79	45	22	13
2003	9	8	11	122	235	204	139	90	54	25	13	9

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 52 Deg F Cold Water Pool Volume-Millerton Lake and Temp Flat Reservoir (TAF)
Alternative5 (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					697	868	866	852	608	274	82	59
1981	56	55	50	51	157	403	490	364	148	56	45	39
1982	35	24	41	383	485	515	572	690	559	239	80	62
1983	59	57	58	542	998	1191	1254	1220	1049	752	277	115
1984	82	73	71	300	579	741	788	667	435	164	62	53
1985	50	49	44	113	477	528	465	352	167	64	50	42
1986	38	33	50	183	315	634	753	777	622	269	90	66
1987	62	60	54	58	156	394	427	340	177	82	56	50
1988	47	45	67	321	299	238	216	181	124	84	61	50
1989	46	44	76	223	227	207	189	163	97	66	51	44
1990	41	40	71	250	259	201	171	140	95	68	54	47
1991	45	44	107	200	168	147	131	75	35	28	27	27
1992	26	23	62	247	261	211	198	144	92	64	49	42
1993	40	38	73	320	424	410	327	302	200	55	49	47
1994	46	45	41	136	336	402	396	337	182	85	58	49
1995	44	37	151	438	508	560	575	577	468	224	75	60
1996	56	56	55	55	171	534	679	442	155	71	54	49
1997	47	47	47	587	1183	1347	1256	899	527	249	71	59
1998	56	56	52	81	373	668	786	696	488	166	66	58
1999	54	53	50	238	418	551	576	427	219	70	53	49
2000	48	47	45	54	146	352	418	290	119	61	53	50
2001	49	48	43	67	203	373	368	239	103	63	49	44
2002	41	39	53	148	198	195	187	171	90	58	48	44
2003	42	32	35	132	193	195	168	122	19	18	19	19

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Change in Average Simulated 52 Deg F Cold Water Pool Volume-Millerton Lake and Temp Flat Reservoir (TAF)
Alternative5 (2005) - Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					286	510	585	605	516	271	80	57
1981	54	53	43	-129	-211	91	255	222	72	14	25	27
1982	26	19	23	41	82	115	177	357	428	226	73	58
1983	56	56	36	168	609	847	1051	1144	720	552	218	85
1984	66	64	56	34	192	395	546	564	376	135	48	43
1985	44	45	20	-243	108	224	227	209	80	10	22	26
1986	28	27	0	-111	-37	279	393	504	533	252	80	59
1987	56	55	46	-168	-141	112	197	188	85	22	21	30
1988	34	35	28	90	68	44	31	39	33	25	27	31
1989	33	33	47	39	34	37	38	30	19	19	26	30
1990	31	31	47	40	32	25	3	5	14	18	27	33
1991	35	35	52	39	33	39	33	29	8	17	21	23
1992	23	21	34	29	20	23	25	6	7	13	23	28
1993	30	30	46	35	44	85	96	127	63	15	31	36
1994	38	38	30	-120	-22	123	184	191	94	30	28	33
1995	34	31	37	123	141	228	330	391	391	217	75	60
1996	56	55	52	-51	-114	195	432	297	81	34	37	38
1997	39	41	24	200	835	993	1002	811	520	247	70	58
1998	55	55	44	-94	-19	349	474	569	469	164	66	58
1999	54	53	40	-64	44	245	357	299	144	26	31	36
2000	38	40	39	-29	-76	83	200	182	62	34	40	42
2001	42	42	29	-112	-60	143	191	132	39	28	31	32
2002	32	32	40	-63	-59	1	16	36	11	14	27	31
2003	33	24	23	10	-42	-9	30	32	-35	-7	6	10

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Percent Change in Average Simulated 52 Deg F Cold Water Pool Volume-Millerton Lake and Temp Flat Reservoir (TAF)
From Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					70%	142%	208%	245%	557%	7013%	3584%	2394%
1981	2230%	1997%	584%	-72%	-57%	29%	109%	156%	93%	35%	128%	230%
1982	318%	367%	126%	12%	20%	29%	45%	107%	328%	1681%	1146%	1250%
1983	1905%	3929%	163%	45%	157%	247%	520%	1516%	219%	276%	366%	289%
1984	415%	658%	372%	13%	49%	114%	226%	544%	637%	455%	330%	474%
1985	688%	930%	82%	-68%	29%	74%	96%	146%	92%	18%	80%	171%
1986	272%	462%	0%	-38%	-11%	78%	109%	185%	598%	1498%	749%	749%
1987	867%	935%	544%	-74%	-47%	40%	85%	124%	93%	37%	61%	158%
1988	262%	331%	71%	39%	29%	23%	17%	28%	36%	43%	79%	162%
1989	256%	317%	160%	21%	17%	22%	25%	22%	25%	40%	107%	207%
1990	314%	374%	188%	19%	14%	14%	2%	4%	18%	35%	104%	224%
1991	332%	393%	95%	24%	25%	36%	34%	62%	32%	152%	354%	617%
1992	836%	1304%	120%	13%	8%	12%	14%	4%	8%	25%	89%	195%
1993	306%	374%	167%	12%	12%	26%	42%	72%	46%	38%	169%	346%
1994	494%	609%	273%	-47%	-6%	44%	87%	131%	107%	54%	91%	194%
1995	331%	527%	32%	39%	38%	69%	135%	210%	511%	2789%	37802%	20372%
1996	13852%	8231%	1668%	-48%	-40%	57%	175%	204%	108%	92%	213%	348%
1997	467%	750%	99%	52%	240%	281%	394%	914%	7798%	16279%	5682%	5664%
1998	6787%	6486%	600%	-53%	-5%	109%	152%	446%	2377%	8811%	630388%	751275%
1999	704942%	693121%	394%	-21%	12%	80%	163%	233%	191%	59%	141%	282%
2000	412%	548%	666%	-35%	-34%	31%	92%	169%	110%	125%	305%	464%
2001	602%	676%	212%	-63%	-23%	62%	107%	123%	61%	78%	170%	271%
2002	374%	410%	310%	-30%	-23%	0%	10%	27%	14%	30%	124%	247%
2003	358%	317%	211%	8%	-18%	-4%	21%	35%	-65%	-27%	47%	117%

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 52 Deg F Cold Water Pool Volume-Millerton Lake and Temp Flat Reservoir (TAF)
No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					411	364	286	220	69	7	4	4
1981	4	4	8	166	362	312	231	139	74	40	19	11
1982	8	5	17	325	379	395	389	325	126	11	5	4
1983	3	1	22	373	387	343	185	76	327	196	59	29
1984	16	10	15	260	378	338	204	73	31	13	8	6
1985	4	3	27	329	333	276	209	132	82	50	26	14
1986	9	5	49	271	327	353	329	251	97	18	11	8
1987	7	6	9	215	269	256	215	149	92	61	36	20
1988	13	11	44	186	188	159	153	120	83	54	30	17
1989	12	10	28	165	169	152	144	132	79	48	25	15
1990	10	9	24	192	203	156	152	126	78	51	28	15
1991	11	9	53	145	117	100	89	43	26	11	6	4
1992	3	2	27	201	217	171	160	128	80	47	23	13
1993	9	8	25	267	372	354	231	157	119	38	17	10
1994	7	6	11	250	313	246	192	137	86	54	30	17
1995	11	7	98	346	383	355	233	159	106	9	0	0
1996	1	1	3	103	272	346	235	117	68	28	13	9
1997	7	5	24	388	346	348	227	61	2	0	0	0
1998	0	0	8	175	386	343	309	127	26	3	0	0
1999	0	0	10	283	344	284	187	105	63	34	17	11
2000	8	6	6	78	210	255	187	94	44	19	10	7
2001	6	5	13	168	236	209	162	96	57	30	16	11
2002	8	7	13	194	229	176	151	122	74	41	20	12
2003	9	7	11	114	215	186	123	78	52	25	13	9

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 52 Deg F Cold Water Pool Volume-Millerton Lake and Temp Flat Reservoir (TAF)
Alternative1 (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					688	942	955	912	612	264	75	57
1981	54	53	49	49	157	404	533	504	316	119	64	58
1982	55	52	49	355	723	726	817	966	757	347	110	64
1983	60	58	59	506	834	1055	1188	1194	1005	732	261	109
1984	77	71	70	286	577	747	798	687	466	201	65	54
1985	51	50	44	109	490	548	501	448	297	121	73	63
1986	59	54	50	243	480	819	987	1012	665	274	89	64
1987	60	58	55	52	100	346	465	414	272	131	88	76
1988	70	66	64	257	340	375	404	373	288	182	138	113
1989	91	78	79	218	387	334	351	363	277	167	128	102
1990	83	74	74	221	275	308	357	361	289	190	145	120
1991	97	81	100	220	224	258	268	196	123	80	67	62
1992	59	54	52	223	329	326	365	347	268	165	127	102
1993	84	73	77	312	454	533	546	471	367	100	59	54
1994	54	52	47	108	301	418	426	388	276	154	113	89
1995	75	65	76	392	571	712	801	862	665	184	77	64
1996	59	58	58	58	185	562	715	488	189	82	58	51
1997	49	49	49	597	1163	1330	1261	914	538	279	75	60
1998	57	56	52	84	383	673	789	703	485	175	68	58
1999	54	53	50	198	400	546	559	395	175	63	51	48
2000	46	46	42	62	242	426	471	345	166	77	62	58
2001	56	53	47	82	214	365	377	290	169	105	79	70
2002	66	64	57	229	341	346	345	329	220	125	92	77
2003	70	66	61	147	317	356	347	281	149	87	68	62

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Change in Average Simulated 52 Deg F Cold Water Pool Volume-Millerton Lake and Temp Flat Reservoir (TAF)
Alternative1 (2030) - No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					278	577	669	691	542	257	71	53
1981	50	49	41	-117	-205	92	302	365	242	79	45	46
1982	47	46	31	30	344	331	428	641	631	336	104	60
1983	57	57	37	132	447	711	1003	1118	679	536	203	80
1984	61	62	56	26	200	409	594	614	435	187	57	48
1985	47	47	16	-221	157	272	292	316	214	71	47	49
1986	49	49	1	-29	153	466	658	761	568	256	78	55
1987	53	53	46	-164	-169	89	250	264	180	70	51	55
1988	57	55	20	71	152	216	251	253	205	128	108	96
1989	79	69	51	53	217	181	207	231	198	119	102	88
1990	73	65	51	29	73	152	206	235	211	139	117	105
1991	86	72	47	75	107	158	179	153	97	69	61	58
1992	56	52	25	22	111	155	205	219	188	117	103	89
1993	74	66	51	44	82	180	316	314	248	62	42	44
1994	46	46	36	-142	-12	172	234	251	190	100	83	73
1995	65	58	-23	47	188	357	569	703	559	176	76	64
1996	58	57	55	-45	-87	217	480	371	120	53	45	42
1997	42	44	25	209	816	982	1035	853	537	279	75	60
1998	57	56	44	-91	-4	330	481	575	458	172	68	58
1999	54	53	40	-85	55	262	372	290	112	30	34	37
2000	38	39	37	-16	32	171	284	252	122	58	52	51
2001	51	48	34	-86	-22	156	214	193	112	74	63	60
2002	58	57	45	35	112	169	194	207	146	84	72	65
2003	61	59	50	33	102	169	225	203	97	62	55	53

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Percent Change in Average Simulated 52 Deg F Cold Water Pool Volume-Millerton Lake and Temp Flat Reservoir (TAF)
From No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					68%	158%	234%	313%	782%	3754%	1785%	1408%
1981	1377%	1324%	530%	-70%	-57%	29%	131%	263%	325%	196%	243%	406%
1982	583%	902%	181%	9%	91%	84%	110%	197%	501%	3073%	1911%	1451%
1983	2090%	4246%	167%	35%	115%	207%	542%	1474%	208%	273%	346%	276%
1984	387%	646%	374%	10%	53%	121%	291%	839%	1399%	1424%	703%	858%
1985	1264%	1760%	60%	-67%	47%	99%	139%	239%	261%	141%	185%	344%
1986	523%	925%	2%	-11%	47%	132%	200%	303%	586%	1414%	692%	681%
1987	803%	883%	533%	-76%	-63%	35%	116%	177%	196%	114%	141%	275%
1988	431%	512%	44%	38%	81%	135%	164%	211%	246%	240%	360%	570%
1989	670%	703%	186%	32%	128%	119%	143%	176%	250%	247%	405%	601%
1990	719%	763%	213%	15%	36%	97%	136%	187%	269%	273%	417%	681%
1991	789%	769%	89%	52%	91%	159%	200%	358%	381%	630%	1035%	1594%
1992	2048%	3272%	92%	11%	51%	91%	128%	171%	234%	248%	439%	667%
1993	810%	847%	203%	16%	22%	51%	137%	200%	208%	164%	240%	450%
1994	635%	783%	318%	-57%	-4%	70%	122%	183%	222%	183%	280%	433%
1995	601%	861%	-23%	13%	49%	101%	244%	442%	530%	2059%	23846%	16829%
1996	10732%	6635%	1681%	-44%	-32%	63%	204%	318%	176%	187%	334%	465%
1997	598%	974%	103%	54%	236%	282%	456%	1396%	31176%	85310%	30809%	27971%
1998	43334%	33548%	520%	-52%	-1%	96%	156%	452%	1742%	6864%	595443%	758442%
1999	708028%	694509%	395%	-30%	16%	92%	199%	276%	176%	87%	199%	348%
2000	476%	625%	667%	-20%	15%	67%	151%	269%	278%	315%	520%	725%
2001	914%	977%	270%	-51%	-10%	75%	132%	200%	196%	246%	388%	552%
2002	736%	825%	357%	18%	49%	96%	128%	169%	196%	205%	365%	543%
2003	706%	802%	453%	29%	47%	91%	183%	260%	189%	250%	436%	614%

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 52 Deg F Cold Water Pool Volume-Millerton Lake and Temp Flat Reservoir (TAF)
No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					411	364	286	220	69	7	4	4
1981	4	4	8	166	362	312	231	139	74	40	19	11
1982	8	5	17	325	379	395	389	325	126	11	5	4
1983	3	1	22	373	387	343	185	76	327	196	59	29
1984	16	10	15	260	378	338	204	73	31	13	8	6
1985	4	3	27	329	333	276	209	132	82	50	26	14
1986	9	5	49	271	327	353	329	251	97	18	11	8
1987	7	6	9	215	269	256	215	149	92	61	36	20
1988	13	11	44	186	188	159	153	120	83	54	30	17
1989	12	10	28	165	169	152	144	132	79	48	25	15
1990	10	9	24	192	203	156	152	126	78	51	28	15
1991	11	9	53	145	117	100	89	43	26	11	6	4
1992	3	2	27	201	217	171	160	128	80	47	23	13
1993	9	8	25	267	372	354	231	157	119	38	17	10
1994	7	6	11	250	313	246	192	137	86	54	30	17
1995	11	7	98	346	383	355	233	159	106	9	0	0
1996	1	1	3	103	272	346	235	117	68	28	13	9
1997	7	5	24	388	346	348	227	61	2	0	0	0
1998	0	0	8	175	386	343	309	127	26	3	0	0
1999	0	0	10	283	344	284	187	105	63	34	17	11
2000	8	6	6	78	210	255	187	94	44	19	10	7
2001	6	5	13	168	236	209	162	96	57	30	16	11
2002	8	7	13	194	229	176	151	122	74	41	20	12
2003	9	7	11	114	215	186	123	78	52	25	13	9

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 52 Deg F Cold Water Pool Volume-Millerton Lake and Temp Flat Reservoir (TAF)
Alternative2 (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					684	941	957	913	610	256	80	57
1981	54	53	49	49	157	409	538	508	321	119	64	58
1982	55	52	47	345	726	726	820	960	742	333	96	65
1983	60	58	59	503	830	1048	1184	1193	1004	731	261	109
1984	77	71	70	283	575	747	797	684	464	201	68	54
1985	51	51	44	115	490	551	512	466	317	129	75	63
1986	58	53	49	237	477	823	993	1017	665	284	100	67
1987	61	59	55	52	100	343	463	423	282	135	88	76
1988	70	66	64	258	346	380	410	378	292	184	139	114
1989	92	79	79	221	377	332	354	364	278	167	128	102
1990	83	74	74	220	278	311	360	363	291	192	147	121
1991	98	82	101	220	225	259	268	198	125	81	68	62
1992	59	54	51	222	332	330	373	357	274	167	127	102
1993	84	73	74	315	457	536	547	469	366	100	59	55
1994	54	53	48	105	298	423	434	393	279	155	113	89
1995	76	65	76	389	574	714	804	860	663	183	77	64
1996	59	58	58	58	185	560	710	484	183	80	58	51
1997	49	49	49	598	1164	1330	1260	912	536	280	84	61
1998	57	57	52	84	379	671	789	704	493	177	68	58
1999	54	53	50	200	403	546	557	392	174	64	51	48
2000	46	46	43	62	237	424	471	340	163	76	61	58
2001	56	53	46	78	208	364	380	293	170	105	79	70
2002	66	64	57	228	340	346	348	329	220	125	92	77
2003	70	66	61	148	317	355	347	283	151	87	68	62

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Change in Average Simulated 52 Deg F Cold Water Pool Volume-Millerton Lake and Temp Flat Reservoir (TAF)
Alternative2 (2030) - No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					274	576	671	692	541	249	76	54
1981	50	49	41	-117	-205	97	307	369	247	79	46	47
1982	47	47	30	21	347	331	432	635	616	322	91	61
1983	57	57	37	130	442	705	999	1117	677	534	202	80
1984	62	62	55	23	198	409	593	611	433	188	60	49
1985	48	48	17	-215	157	275	302	334	235	79	50	49
1986	49	48	0	-34	150	470	664	766	568	266	89	59
1987	54	53	46	-164	-169	87	248	273	190	73	52	56
1988	57	56	19	71	158	221	257	258	209	131	109	97
1989	80	69	52	56	208	180	210	232	199	119	102	87
1990	73	65	50	27	76	155	209	237	213	141	119	106
1991	87	73	49	76	107	160	179	155	99	70	62	59
1992	57	53	25	21	115	159	214	229	193	119	103	89
1993	75	66	49	47	85	183	317	312	247	63	42	45
1994	47	47	36	-145	-15	177	242	256	194	100	83	73
1995	65	58	-23	43	191	359	571	701	558	175	76	64
1996	58	57	55	-45	-87	214	475	368	114	52	45	42
1997	42	44	25	210	817	982	1033	851	534	279	83	60
1998	57	57	44	-91	-8	329	480	577	466	175	68	58
1999	54	53	40	-83	59	262	370	287	110	30	34	37
2000	38	40	37	-16	27	169	284	247	119	57	51	51
2001	51	48	34	-90	-29	155	218	196	113	74	62	59
2002	58	57	45	34	111	170	197	207	146	84	73	65
2003	61	59	50	33	102	169	224	204	99	62	55	53

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Percent Change in Average Simulated 52 Deg F Cold Water Pool Volume-Millerton Lake and Temp Flat Reservoir (TAF)
From No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					67%	158%	234%	314%	779%	3633%	1923%	1420%
1981	1383%	1328%	532%	-70%	-57%	31%	133%	265%	332%	196%	244%	408%
1982	586%	911%	174%	6%	91%	84%	111%	195%	489%	2942%	1670%	1470%
1983	2095%	4246%	167%	35%	114%	205%	539%	1472%	207%	272%	345%	275%
1984	390%	649%	373%	9%	52%	121%	291%	834%	1393%	1429%	741%	867%
1985	1273%	1774%	61%	-65%	47%	100%	144%	253%	286%	156%	194%	348%
1986	518%	914%	0%	-13%	46%	133%	201%	305%	586%	1472%	790%	724%
1987	818%	889%	536%	-76%	-63%	34%	116%	183%	206%	119%	142%	276%
1988	432%	514%	44%	38%	84%	139%	168%	215%	251%	244%	364%	575%
1989	676%	708%	187%	34%	123%	118%	146%	176%	251%	247%	404%	599%
1990	719%	766%	213%	14%	37%	99%	137%	188%	272%	277%	424%	690%
1991	800%	776%	92%	52%	92%	161%	200%	362%	389%	639%	1046%	1607%
1992	2067%	3301%	92%	11%	53%	93%	134%	179%	241%	252%	441%	669%
1993	812%	848%	193%	18%	23%	52%	137%	199%	208%	166%	242%	455%
1994	642%	790%	320%	-58%	-5%	72%	126%	187%	226%	185%	279%	433%
1995	602%	861%	-23%	13%	50%	101%	245%	441%	528%	2049%	23838%	16874%
1996	10764%	6647%	1683%	-43%	-32%	62%	202%	315%	167%	182%	333%	465%
1997	599%	975%	103%	54%	236%	282%	456%	1392%	31043%	85477%	34214%	28241%
1998	43553%	33708%	522%	-52%	-2%	96%	155%	453%	1772%	6969%	597413%	761334%
1999	709863%	696089%	395%	-29%	17%	92%	198%	273%	173%	88%	200%	350%
2000	478%	627%	672%	-20%	13%	66%	152%	264%	271%	309%	516%	724%
2001	914%	975%	267%	-53%	-12%	74%	134%	203%	197%	246%	385%	548%
2002	733%	822%	356%	18%	49%	96%	130%	169%	197%	206%	365%	544%
2003	705%	802%	453%	29%	47%	91%	183%	262%	193%	251%	437%	618%

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 52 Deg F Cold Water Pool Volume-Millerton Lake and Temp Flat Reservoir (TAF)
No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					411	364	286	220	69	7	4	4
1981	4	4	8	166	362	312	231	139	74	40	19	11
1982	8	5	17	325	379	395	389	325	126	11	5	4
1983	3	1	22	373	387	343	185	76	327	196	59	29
1984	16	10	15	260	378	338	204	73	31	13	8	6
1985	4	3	27	329	333	276	209	132	82	50	26	14
1986	9	5	49	271	327	353	329	251	97	18	11	8
1987	7	6	9	215	269	256	215	149	92	61	36	20
1988	13	11	44	186	188	159	153	120	83	54	30	17
1989	12	10	28	165	169	152	144	132	79	48	25	15
1990	10	9	24	192	203	156	152	126	78	51	28	15
1991	11	9	53	145	117	100	89	43	26	11	6	4
1992	3	2	27	201	217	171	160	128	80	47	23	13
1993	9	8	25	267	372	354	231	157	119	38	17	10
1994	7	6	11	250	313	246	192	137	86	54	30	17
1995	11	7	98	346	383	355	233	159	106	9	0	0
1996	1	1	3	103	272	346	235	117	68	28	13	9
1997	7	5	24	388	346	348	227	61	2	0	0	0
1998	0	0	8	175	386	343	309	127	26	3	0	0
1999	0	0	10	283	344	284	187	105	63	34	17	11
2000	8	6	6	78	210	255	187	94	44	19	10	7
2001	6	5	13	168	236	209	162	96	57	30	16	11
2002	8	7	13	194	229	176	151	122	74	41	20	12
2003	9	7	11	114	215	186	123	78	52	25	13	9

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 52 Deg F Cold Water Pool Volume-Millerton Lake and Temp Flat Reservoir (TAF)
Alternative3 (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					682	945	962	915	602	242	70	55
1981	52	52	48	49	152	403	529	495	309	110	62	57
1982	55	52	49	370	744	737	826	959	735	335	109	68
1983	62	60	60	507	826	1049	1185	1192	1003	731	261	109
1984	77	71	70	289	578	746	797	683	452	159	61	52
1985	50	49	43	109	489	551	501	443	288	115	71	63
1986	59	54	51	247	486	820	989	1015	669	278	95	66
1987	62	60	56	52	102	348	467	423	281	134	89	76
1988	70	66	64	257	340	376	406	374	290	184	139	114
1989	92	79	79	218	385	333	350	363	277	167	128	102
1990	84	74	74	222	276	307	357	361	290	190	145	120
1991	97	81	100	220	224	258	269	197	124	80	67	62
1992	59	54	52	223	329	326	365	347	268	164	126	101
1993	83	73	76	312	454	533	544	466	355	93	59	53
1994	52	51	47	107	304	431	440	400	283	154	112	89
1995	75	64	75	389	567	707	797	855	665	185	77	64
1996	58	57	57	58	183	557	706	477	180	76	55	49
1997	48	47	48	601	1180	1330	1259	917	538	258	72	59
1998	56	56	52	83	379	672	790	700	476	168	66	58
1999	54	53	50	239	423	551	568	394	162	61	49	46
2000	44	44	41	61	233	427	473	334	150	70	59	56
2001	54	52	46	83	225	369	382	294	172	105	79	70
2002	66	64	58	230	339	347	358	334	221	126	94	78
2003	70	66	61	151	318	355	338	269	145	85	68	62

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Change in Average Simulated 52 Deg F Cold Water Pool Volume-Millerton Lake and Temp Flat Reservoir (TAF)
Alternative3 (2030) - No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					272	581	676	695	533	235	66	51
1981	49	48	40	-118	-210	91	299	356	235	70	44	46
1982	47	47	31	45	365	342	437	633	609	324	104	64
1983	59	59	38	134	439	705	1000	1116	676	535	202	80
1984	61	62	56	29	200	409	593	610	421	145	52	47
1985	47	47	16	-220	155	276	292	311	206	64	46	49
1986	50	49	1	-24	159	467	659	764	572	260	84	58
1987	55	54	47	-163	-167	91	252	274	189	73	52	56
1988	57	55	20	70	153	216	253	254	207	130	109	97
1989	80	69	52	53	216	181	205	231	198	119	103	88
1990	73	65	51	29	73	151	205	235	211	139	117	105
1991	86	72	47	75	107	158	179	155	99	69	62	58
1992	56	52	25	22	112	155	205	219	187	117	103	88
1993	74	65	51	45	82	179	314	309	236	56	42	43
1994	45	45	35	-143	-9	185	248	263	197	100	82	72
1995	64	58	-24	43	184	353	564	697	560	176	76	63
1996	58	56	54	-46	-89	212	472	360	111	47	41	40
1997	41	43	24	213	833	982	1032	855	536	257	72	58
1998	56	56	43	-92	-7	329	481	573	450	166	66	58
1999	54	53	40	-44	79	267	381	289	99	27	32	35
2000	36	38	36	-18	23	172	285	240	106	51	49	49
2001	49	47	33	-85	-11	160	220	198	114	74	62	59
2002	58	57	45	36	110	171	207	211	147	85	74	66
2003	61	58	50	36	103	168	215	191	94	60	55	54

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Percent Change in Average Simulated 52 Deg F Cold Water Pool Volume-Millerton Lake and Temp Flat Reservoir (TAF)
From No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					66%	159%	236%	315%	768%	3426%	1665%	1355%
1981	1341%	1299%	519%	-71%	-58%	29%	129%	256%	316%	174%	234%	403%
1982	582%	907%	180%	14%	96%	87%	112%	195%	483%	2959%	1904%	1545%
1983	2171%	4387%	171%	36%	113%	206%	540%	1471%	207%	273%	346%	276%
1984	389%	649%	374%	11%	53%	121%	291%	834%	1354%	1105%	646%	836%
1985	1242%	1734%	58%	-67%	46%	100%	139%	236%	250%	128%	179%	345%
1986	529%	929%	3%	-9%	49%	132%	200%	304%	590%	1440%	749%	707%
1987	835%	912%	545%	-76%	-62%	36%	117%	183%	205%	119%	143%	277%
1988	432%	513%	44%	38%	81%	136%	165%	212%	249%	243%	363%	575%
1989	674%	705%	187%	32%	127%	119%	143%	176%	250%	247%	405%	601%
1990	720%	764%	213%	15%	36%	97%	135%	187%	270%	273%	418%	682%
1991	791%	770%	89%	52%	91%	159%	201%	361%	386%	635%	1040%	1602%
1992	2060%	3288%	93%	11%	51%	91%	128%	171%	233%	247%	437%	664%
1993	807%	846%	200%	17%	22%	51%	136%	197%	198%	148%	239%	438%
1994	615%	761%	311%	-57%	-3%	75%	129%	192%	229%	184%	277%	428%
1995	594%	851%	-24%	12%	48%	99%	243%	438%	530%	2065%	23867%	16697%
1996	10603%	6577%	1664%	-44%	-33%	61%	201%	309%	163%	166%	307%	443%
1997	578%	943%	99%	55%	241%	282%	455%	1400%	31156%	78764%	29530%	27302%
1998	42877%	33178%	516%	-53%	-2%	96%	156%	450%	1709%	6616%	583190%	753635%
1999	708974%	696734%	401%	-16%	23%	94%	203%	275%	155%	80%	188%	330%
2000	453%	597%	646%	-22%	11%	68%	152%	257%	242%	276%	492%	696%
2001	882%	949%	265%	-51%	-5%	77%	135%	205%	200%	246%	384%	548%
2002	733%	823%	359%	19%	48%	97%	137%	173%	198%	208%	371%	547%
2003	706%	799%	451%	32%	48%	90%	175%	244%	182%	244%	433%	621%

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 52 Deg F Cold Water Pool Volume-Millerton Lake and Temp Flat Reservoir (TAF)
No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					411	364	286	220	69	7	4	4
1981	4	4	8	166	362	312	231	139	74	40	19	11
1982	8	5	17	325	379	395	389	325	126	11	5	4
1983	3	1	22	373	387	343	185	76	327	196	59	29
1984	16	10	15	260	378	338	204	73	31	13	8	6
1985	4	3	27	329	333	276	209	132	82	50	26	14
1986	9	5	49	271	327	353	329	251	97	18	11	8
1987	7	6	9	215	269	256	215	149	92	61	36	20
1988	13	11	44	186	188	159	153	120	83	54	30	17
1989	12	10	28	165	169	152	144	132	79	48	25	15
1990	10	9	24	192	203	156	152	126	78	51	28	15
1991	11	9	53	145	117	100	89	43	26	11	6	4
1992	3	2	27	201	217	171	160	128	80	47	23	13
1993	9	8	25	267	372	354	231	157	119	38	17	10
1994	7	6	11	250	313	246	192	137	86	54	30	17
1995	11	7	98	346	383	355	233	159	106	9	0	0
1996	1	1	3	103	272	346	235	117	68	28	13	9
1997	7	5	24	388	346	348	227	61	2	0	0	0
1998	0	0	8	175	386	343	309	127	26	3	0	0
1999	0	0	10	283	344	284	187	105	63	34	17	11
2000	8	6	6	78	210	255	187	94	44	19	10	7
2001	6	5	13	168	236	209	162	96	57	30	16	11
2002	8	7	13	194	229	176	151	122	74	41	20	12
2003	9	7	11	114	215	186	123	78	52	25	13	9

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 52 Deg F Cold Water Pool Volume-Millerton Lake and Temp Flat Reservoir (TAF)
Alternative4 (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					1047	1132	1082	991	707	535	519	451
1981	282	177	137	418	469	535	608	587	435	350	292	257
1982	179	133	86	546	925	890	945	1087	868	608	570	496
1983	323	212	171	635	888	1110	1213	1218	1112	873	591	500
1984	366	255	119	457	684	812	841	743	631	572	517	414
1985	274	166	143	447	629	685	599	543	433	346	241	216
1986	158	119	84	241	529	948	1114	1117	809	610	577	515
1987	352	242	199	433	417	533	593	531	427	355	249	229
1988	171	144	114	525	665	568	543	482	379	272	230	208
1989	169	139	110	326	634	474	453	445	353	252	217	199
1990	160	130	104	150	478	507	477	448	344	265	223	204
1991	166	139	115	411	461	357	349	238	162	138	130	96
1992	88	80	64	292	512	435	454	431	365	260	210	200
1993	160	129	98	326	562	647	639	536	468	357	306	256
1994	164	122	84	207	452	530	537	499	414	356	265	230
1995	175	135	104	534	789	866	900	933	781	474	454	410
1996	250	158	121	99	263	637	782	611	512	487	464	373
1997	254	139	100	790	1319	1369	1280	958	677	609	570	501
1998	354	261	192	372	678	810	888	782	651	433	424	369
1999	220	143	152	440	582	652	631	457	367	334	287	213
2000	137	101	77	83	240	464	537	401	298	274	253	201
2001	143	106	81	80	214	453	500	405	323	261	188	164
2002	123	105	81	172	367	413	441	444	367	290	209	204
2003	152	122	95	98	240	363	379	279	181	160	140	91

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Change in Average Simulated 52 Deg F Cold Water Pool Volume-Millerton Lake and Temp Flat Reservoir (TAF)
Alternative4 (2030) - No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					637	767	796	771	637	528	515	448
1981	278	174	130	252	107	223	377	448	361	309	273	246
1982	171	127	69	222	546	495	556	762	742	597	564	492
1983	320	210	149	261	501	767	1028	1142	785	677	533	471
1984	350	246	104	197	307	474	637	670	600	559	509	408
1985	270	163	116	118	296	409	390	411	351	295	216	202
1986	148	113	34	-31	202	595	785	865	712	592	566	506
1987	346	236	191	217	148	277	378	381	335	294	213	209
1988	158	133	69	339	477	409	389	362	296	219	200	191
1989	158	129	83	161	465	322	308	313	274	204	191	184
1990	150	121	80	-43	275	351	325	322	266	214	195	189
1991	155	130	62	266	344	257	260	195	137	127	124	92
1992	85	79	37	91	295	264	294	303	285	213	187	186
1993	150	121	73	59	191	293	409	378	349	320	288	246
1994	157	116	73	-43	139	284	345	362	329	302	236	213
1995	164	128	6	188	406	512	667	774	676	466	454	410
1996	249	157	118	-4	-9	292	547	494	443	458	451	364
1997	247	134	76	402	973	1021	1054	897	676	609	570	501
1998	354	261	184	196	292	467	579	654	625	430	424	369
1999	220	143	142	157	238	368	444	352	304	300	270	202
2000	129	95	71	4	30	209	349	308	254	255	243	194
2001	138	101	68	-88	-22	244	337	309	266	231	172	153
2002	115	98	68	-22	138	237	289	322	293	249	189	192
2003	143	115	84	-16	25	177	256	201	130	135	127	82

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Percent Change in Average Simulated 52 Deg F Cold Water Pool Volume-Millerton Lake and Temp Flat Reservoir (TAF)
From No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					155%	211%	278%	350%	919%	7699%	12987%	11861%
1981	7680%	4697%	1674%	151%	30%	71%	164%	322%	485%	770%	1460%	2155%
1982	2115%	2477%	397%	68%	144%	125%	143%	234%	589%	5454%	10353%	11915%
1983	11767%	15696%	676%	70%	129%	223%	555%	1504%	240%	345%	910%	1621%
1984	2217%	2578%	700%	76%	81%	140%	312%	915%	1930%	4245%	6270%	7281%
1985	7219%	6059%	423%	36%	89%	148%	186%	311%	427%	585%	843%	1430%
1986	1577%	2157%	69%	-11%	62%	169%	238%	344%	735%	3277%	5052%	6219%
1987	5233%	3969%	2208%	101%	55%	108%	176%	255%	364%	479%	583%	1035%
1988	1199%	1232%	156%	182%	254%	257%	254%	302%	356%	408%	667%	1131%
1989	1329%	1325%	300%	98%	274%	212%	214%	238%	347%	425%	756%	1263%
1990	1468%	1424%	339%	-22%	136%	225%	214%	256%	340%	421%	698%	1228%
1991	1431%	1388%	118%	184%	294%	259%	290%	455%	536%	1161%	2093%	2524%
1992	3117%	4934%	138%	45%	136%	154%	184%	237%	355%	450%	796%	1403%
1993	1637%	1562%	287%	22%	51%	83%	177%	241%	293%	849%	1657%	2497%
1994	2154%	1951%	643%	-17%	44%	115%	180%	264%	383%	555%	792%	1269%
1995	1525%	1899%	6%	54%	106%	144%	287%	487%	640%	5457%	141908%	108048%
1996	45895%	18354%	3637%	-4%	-3%	84%	233%	423%	648%	1610%	3355%	4004%
1997	3498%	2967%	315%	104%	281%	293%	465%	1468%	39250%	186357%	233636%	234420%
1998	270567%	155648%	2190%	112%	75%	136%	188%	514%	2375%	17161%	3731873%	4805735%
1999	2871685%	1864051%	1408%	55%	69%	130%	237%	335%	478%	888%	1579%	1906%
2000	1604%	1503%	1294%	6%	14%	82%	186%	329%	580%	1376%	2449%	2767%
2001	2485%	2060%	541%	-52%	-9%	117%	208%	320%	464%	763%	1057%	1417%
2002	1453%	1418%	541%	-11%	60%	134%	191%	263%	395%	608%	953%	1593%
2003	1651%	1567%	757%	-14%	12%	95%	209%	257%	251%	546%	1001%	948%

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 60 Deg F Cold Water Pool Volume-Millerton Lake and Temp Flat Reservoir (TAF)
Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					423	442	457	464	375	330	131	82
1981	60	178	374	401	424	442	407	382	216	99	68	46
1982	30	170	249	357	410	441	457	457	421	289	119	83
1983	101	316	439	437	427	434	338	146	404	437	201	103
1984	75	145	446	441	449	450	453	374	291	123	76	53
1985	41	216	313	362	388	400	393	406	254	113	72	53
1986	37	137	245	323	391	432	457	415	426	235	107	74
1987	54	165	329	360	380	401	360	366	248	117	76	54
1988	33	77	183	231	263	254	253	265	189	107	71	49
1989	29	73	155	184	202	218	242	269	168	99	68	47
1990	30	124	186	212	231	221	223	228	134	88	63	41
1991	25	105	146	162	164	168	167	155	161	112	70	47
1992	30	91	187	219	249	268	262	289	170	91	64	41
1993	25	71	174	284	398	398	374	315	379	287	120	78
1994	56	154	325	360	381	398	366	337	244	114	74	52
1995	39	176	219	319	413	410	378	314	361	402	156	86
1996	61	35	253	310	380	424	380	371	315	146	81	56
1997	36	212	402	472	402	418	427	391	248	98	65	41
1998	24	108	265	335	437	424	449	341	352	365	138	78
1999	53	209	327	362	411	427	383	314	306	145	80	55
2000	35	40	236	277	369	404	393	359	313	133	79	55
2001	35	163	255	287	305	311	297	302	218	102	67	44
2002	26	45	201	275	307	307	301	307	222	108	72	49
2003	29	66	231	296	344	323	278	232	280	139	77	53

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 60 Deg F Cold Water Pool Volume-Millerton Lake and Temp Flat Reservoir (TAF)
Alternative1 (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					1313	1465	1499	1453	1395	1496	1274	970
1981	745	956	1330	1322	1301	1277	1123	992	832	578	325	179
1982	132	171	714	811	891	1001	1113	1289	1442	1461	1251	916
1983	724	1227	1699	1701	1696	1709	1698	1578	1698	1628	1439	1100
1984	869	990	1704	1699	1706	1647	1558	1411	1374	1176	866	560
1985	356	456	1019	1054	1019	983	914	886	755	535	305	186
1986	146	332	681	752	882	1157	1260	1329	1504	1464	1176	853
1987	629	611	1118	1104	1063	1033	906	882	760	552	338	211
1988	174	181	606	648	675	641	600	594	520	383	251	201
1989	177	185	555	585	603	607	588	590	491	357	233	190
1990	168	234	587	613	633	605	567	563	450	344	244	202
1991	179	275	540	556	557	560	513	406	407	338	215	169
1992	146	172	580	612	639	630	584	609	489	333	220	182
1993	159	172	552	681	812	824	873	837	989	1018	731	439
1994	261	334	854	856	836	797	721	689	630	459	290	200
1995	173	420	651	771	928	1037	1125	1184	1381	1561	1296	903
1996	681	586	1086	1473	1525	1546	1422	1436	1439	1261	919	617
1997	407	470	1039	1598	1650	1597	1502	1487	1377	1159	839	550
1998	330	353	769	1004	1116	1134	1202	1144	1268	1476	1146	820
1999	606	894	1448	1470	1503	1474	1367	1167	1164	921	590	320
2000	183	122	583	813	858	833	769	746	795	595	328	175
2001	131	272	705	724	734	716	653	656	608	409	228	166
2002	141	116	555	694	723	710	647	633	583	412	247	178
2003	152	122	508	714	760	702	605	545	624	461	254	167

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Change in Average Simulated 60 Deg F Cold Water Pool Volume-Millerton Lake and Temp Flat Reservoir (TAF)
Alternative1 (2005) - Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					890	1023	1041	989	1021	1167	1143	888
1981	685	778	955	921	876	835	716	610	616	479	256	133
1982	103	1	465	453	481	560	656	832	1022	1171	1132	833
1983	622	911	1261	1264	1269	1276	1361	1432	1294	1190	1238	997
1984	794	845	1258	1258	1257	1197	1105	1037	1083	1052	789	507
1985	315	239	707	692	631	583	521	480	501	423	233	133
1986	109	195	436	429	492	726	803	914	1077	1229	1069	779
1987	575	446	789	744	683	632	545	516	512	434	262	158
1988	141	104	423	417	411	387	346	329	331	276	180	152
1989	148	111	400	401	400	388	345	321	322	258	165	144
1990	138	110	401	401	401	384	344	334	316	257	181	161
1991	154	170	394	394	393	392	346	251	246	225	145	122
1992	116	81	393	393	391	362	322	319	318	241	156	141
1993	134	101	378	397	414	426	499	521	610	731	612	361
1994	206	180	530	496	455	399	355	352	385	345	216	147
1995	134	244	432	452	515	627	747	870	1020	1159	1140	817
1996	620	550	833	1163	1146	1121	1042	1065	1124	1115	838	561
1997	371	258	637	1126	1248	1179	1074	1097	1129	1061	774	509
1998	305	245	504	668	679	711	753	803	917	1111	1008	741
1999	553	685	1122	1108	1092	1048	984	853	858	776	510	264
2000	148	82	346	536	489	429	376	387	482	462	249	120
2001	96	109	449	437	430	405	355	354	390	308	161	122
2002	115	70	354	419	415	403	346	326	361	305	175	129
2003	123	56	277	418	417	379	326	313	344	322	178	114

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Percent Change in Average Simulated 60 Deg F Cold Water Pool Volume-Millerton Lake and Temp Flat Reservoir (TAF)
From Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					211%	232%	228%	213%	272%	354%	875%	1083%
1981	1137%	437%	255%	230%	207%	189%	176%	160%	285%	484%	374%	288%
1982	349%	1%	186%	127%	118%	127%	144%	182%	243%	405%	953%	1007%
1983	613%	289%	287%	289%	297%	294%	403%	981%	320%	272%	617%	966%
1984	1062%	584%	282%	285%	280%	266%	244%	277%	372%	855%	1033%	951%
1985	776%	111%	226%	191%	163%	146%	133%	118%	197%	375%	322%	253%
1986	298%	143%	178%	133%	126%	168%	176%	220%	253%	524%	1000%	1056%
1987	1056%	270%	240%	206%	180%	158%	151%	141%	206%	371%	346%	295%
1988	421%	135%	231%	180%	156%	152%	137%	124%	175%	258%	255%	313%
1989	504%	152%	258%	217%	198%	178%	143%	119%	192%	262%	242%	307%
1990	453%	89%	216%	189%	173%	174%	154%	147%	237%	293%	288%	393%
1991	627%	161%	269%	243%	239%	234%	207%	162%	153%	201%	206%	261%
1992	387%	89%	210%	180%	157%	135%	123%	110%	187%	265%	243%	340%
1993	544%	143%	217%	140%	104%	107%	133%	165%	161%	255%	511%	461%
1994	370%	117%	163%	138%	120%	100%	97%	104%	158%	302%	294%	281%
1995	342%	139%	197%	142%	125%	153%	197%	277%	282%	289%	730%	949%
1996	1016%	1550%	329%	375%	302%	264%	275%	287%	356%	763%	1036%	1005%
1997	1025%	122%	159%	239%	311%	282%	251%	281%	455%	1084%	1196%	1241%
1998	1256%	226%	191%	199%	155%	168%	168%	235%	261%	305%	733%	945%
1999	1039%	327%	343%	306%	266%	245%	257%	271%	280%	534%	638%	478%
2000	429%	204%	147%	194%	132%	106%	96%	108%	154%	349%	315%	219%
2001	274%	67%	176%	152%	141%	131%	119%	117%	179%	303%	241%	276%
2002	439%	155%	176%	152%	135%	131%	115%	106%	163%	283%	244%	266%
2003	429%	84%	120%	141%	121%	117%	117%	135%	123%	232%	232%	216%

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 60 Deg F Cold Water Pool Volume-Millerton Lake and Temp Flat Reservoir (TAF)
Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					423	442	457	464	375	330	131	82
1981	60	178	374	401	424	442	407	382	216	99	68	46
1982	30	170	249	357	410	441	457	457	421	289	119	83
1983	101	316	439	437	427	434	338	146	404	437	201	103
1984	75	145	446	441	449	450	453	374	291	123	76	53
1985	41	216	313	362	388	400	393	406	254	113	72	53
1986	37	137	245	323	391	432	457	415	426	235	107	74
1987	54	165	329	360	380	401	360	366	248	117	76	54
1988	33	77	183	231	263	254	253	265	189	107	71	49
1989	29	73	155	184	202	218	242	269	168	99	68	47
1990	30	124	186	212	231	221	223	228	134	88	63	41
1991	25	105	146	162	164	168	167	155	161	112	70	47
1992	30	91	187	219	249	268	262	289	170	91	64	41
1993	25	71	174	284	398	398	374	315	379	287	120	78
1994	56	154	325	360	381	398	366	337	244	114	74	52
1995	39	176	219	319	413	410	378	314	361	402	156	86
1996	61	35	253	310	380	424	380	371	315	146	81	56
1997	36	212	402	472	402	418	427	391	248	98	65	41
1998	24	108	265	335	437	424	449	341	352	365	138	78
1999	53	209	327	362	411	427	383	314	306	145	80	55
2000	35	40	236	277	369	404	393	359	313	133	79	55
2001	35	163	255	287	305	311	297	302	218	102	67	44
2002	26	45	201	275	307	307	301	307	222	108	72	49
2003	29	66	231	296	344	323	278	232	280	139	77	53

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 60 Deg F Cold Water Pool Volume-Millerton Lake and Temp Flat Reservoir (TAF)
Alternative2 (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					1280	1434	1465	1421	1379	1482	1267	971
1981	743	936	1311	1301	1279	1253	1096	971	822	578	336	188
1982	137	163	723	817	897	1006	1116	1292	1448	1467	1270	943
1983	752	1259	1703	1702	1696	1710	1698	1578	1699	1627	1440	1108
1984	879	996	1705	1700	1707	1647	1555	1410	1376	1180	873	571
1985	364	454	1015	1052	1017	977	909	884	758	547	326	198
1986	154	323	693	760	887	1160	1265	1338	1505	1448	1153	830
1987	605	567	1083	1069	1028	998	875	856	739	539	336	214
1988	177	183	608	650	678	641	601	595	523	386	252	202
1989	178	184	554	586	603	608	588	591	493	358	235	191
1990	169	237	588	614	633	605	568	564	450	341	242	202
1991	179	276	541	557	557	560	515	410	408	342	219	171
1992	148	174	580	612	640	631	586	608	488	333	220	182
1993	159	172	554	681	812	825	874	835	984	1002	714	431
1994	258	330	840	840	820	783	707	678	620	453	287	199
1995	172	421	651	771	928	1036	1124	1182	1380	1564	1298	906
1996	681	582	1070	1459	1509	1528	1406	1426	1443	1259	913	614
1997	404	465	1025	1594	1651	1597	1500	1486	1376	1152	828	536
1998	316	338	754	976	1089	1106	1169	1115	1240	1476	1151	827
1999	618	914	1466	1489	1524	1493	1384	1183	1181	947	620	358
2000	202	126	592	824	868	840	778	752	802	596	339	182
2001	134	264	718	735	744	722	659	665	619	418	234	168
2002	141	113	555	696	724	706	645	633	579	404	242	177
2003	151	123	502	715	760	693	599	544	628	478	274	175

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Change in Average Simulated 60 Deg F Cold Water Pool Volume-Millerton Lake and Temp Flat Reservoir (TAF)
Alternative2 (2005) - Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					858	992	1008	957	1005	1153	1136	890
1981	683	758	936	900	854	811	689	589	606	479	268	142
1982	108	-7	473	460	488	565	659	835	1027	1178	1151	860
1983	651	944	1264	1264	1270	1276	1361	1432	1295	1190	1239	1005
1984	804	851	1259	1259	1258	1197	1102	1036	1085	1057	797	518
1985	323	238	703	690	629	577	516	478	504	434	254	146
1986	117	187	448	437	497	728	808	923	1078	1213	1046	757
1987	551	402	754	709	649	597	515	490	491	422	260	161
1988	144	105	425	419	414	387	348	330	334	279	181	153
1989	148	110	399	401	401	389	346	322	324	260	166	144
1990	138	114	402	402	402	384	345	335	316	253	179	161
1991	154	170	395	395	393	392	348	255	247	229	149	124
1992	118	83	394	393	391	363	323	319	318	242	156	141
1993	134	101	380	397	414	427	500	520	605	715	594	353
1994	203	176	515	480	439	385	341	340	375	339	213	146
1995	133	245	432	452	515	626	746	868	1019	1162	1142	820
1996	620	546	817	1149	1129	1104	1026	1055	1127	1113	832	558
1997	368	253	623	1122	1250	1179	1073	1096	1128	1055	763	495
1998	292	230	490	641	652	682	720	774	888	1112	1013	748
1999	565	705	1139	1127	1113	1066	1001	868	875	801	540	302
2000	168	86	355	547	498	436	385	393	488	464	259	128
2001	99	101	462	448	440	411	362	363	400	316	167	123
2002	115	68	354	421	416	399	344	326	357	296	170	128
2003	123	56	270	419	417	369	321	312	348	339	197	122

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Percent Change in Average Simulated 60 Deg F Cold Water Pool Volume-Millerton Lake and Temp Flat Reservoir (TAF)
From Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					203%	225%	220%	206%	268%	350%	869%	1086%
1981	1134%	426%	250%	225%	201%	184%	170%	154%	280%	484%	391%	308%
1982	365%	-4%	190%	129%	119%	128%	144%	183%	244%	407%	969%	1040%
1983	642%	299%	288%	289%	298%	294%	403%	981%	320%	272%	618%	974%
1984	1074%	588%	282%	285%	280%	266%	244%	277%	373%	859%	1043%	972%
1985	796%	110%	225%	190%	162%	144%	131%	118%	198%	385%	350%	277%
1986	321%	137%	183%	135%	127%	169%	177%	223%	253%	517%	979%	1025%
1987	1012%	244%	229%	197%	171%	149%	143%	134%	198%	360%	343%	300%
1988	430%	136%	232%	181%	157%	152%	137%	124%	177%	261%	257%	314%
1989	505%	150%	257%	218%	198%	178%	143%	120%	193%	263%	244%	309%
1990	455%	92%	216%	190%	174%	174%	155%	147%	236%	289%	285%	392%
1991	626%	162%	270%	243%	240%	234%	208%	164%	154%	204%	213%	265%
1992	392%	91%	211%	180%	157%	135%	123%	110%	187%	265%	244%	340%
1993	544%	143%	219%	140%	104%	107%	134%	165%	160%	249%	496%	450%
1994	364%	115%	159%	133%	115%	97%	93%	101%	154%	297%	290%	279%
1995	341%	140%	197%	142%	125%	153%	197%	276%	282%	289%	731%	953%
1996	1017%	1540%	323%	371%	297%	260%	270%	284%	357%	761%	1028%	999%
1997	1016%	120%	155%	238%	311%	282%	251%	281%	454%	1078%	1178%	1206%
1998	1202%	213%	185%	191%	149%	161%	161%	227%	253%	305%	736%	954%
1999	1061%	337%	349%	311%	271%	250%	261%	276%	286%	552%	675%	546%
2000	485%	215%	150%	198%	135%	108%	98%	109%	156%	350%	328%	232%
2001	282%	62%	181%	156%	144%	132%	122%	120%	183%	311%	249%	278%
2002	440%	149%	177%	153%	135%	130%	115%	106%	161%	276%	237%	263%
2003	426%	85%	117%	141%	121%	114%	115%	135%	124%	245%	257%	231%

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 60 Deg F Cold Water Pool Volume-Millerton Lake and Temp Flat Reservoir (TAF)
Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					423	442	457	464	375	330	131	82
1981	60	178	374	401	424	442	407	382	216	99	68	46
1982	30	170	249	357	410	441	457	457	421	289	119	83
1983	101	316	439	437	427	434	338	146	404	437	201	103
1984	75	145	446	441	449	450	453	374	291	123	76	53
1985	41	216	313	362	388	400	393	406	254	113	72	53
1986	37	137	245	323	391	432	457	415	426	235	107	74
1987	54	165	329	360	380	401	360	366	248	117	76	54
1988	33	77	183	231	263	254	253	265	189	107	71	49
1989	29	73	155	184	202	218	242	269	168	99	68	47
1990	30	124	186	212	231	221	223	228	134	88	63	41
1991	25	105	146	162	164	168	167	155	161	112	70	47
1992	30	91	187	219	249	268	262	289	170	91	64	41
1993	25	71	174	284	398	398	374	315	379	287	120	78
1994	56	154	325	360	381	398	366	337	244	114	74	52
1995	39	176	219	319	413	410	378	314	361	402	156	86
1996	61	35	253	310	380	424	380	371	315	146	81	56
1997	36	212	402	472	402	418	427	391	248	98	65	41
1998	24	108	265	335	437	424	449	341	352	365	138	78
1999	53	209	327	362	411	427	383	314	306	145	80	55
2000	35	40	236	277	369	404	393	359	313	133	79	55
2001	35	163	255	287	305	311	297	302	218	102	67	44
2002	26	45	201	275	307	307	301	307	222	108	72	49
2003	29	66	231	296	344	323	278	232	280	139	77	53

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 60 Deg F Cold Water Pool Volume-Millerton Lake and Temp Flat Reservoir (TAF)
Alternative3 (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					1193	1354	1342	1246	1192	1280	966	632
1981	409	567	1120	1108	1083	1064	935	840	703	472	250	166
1982	136	196	688	780	859	967	1035	1152	1294	1300	1028	713
1983	517	965	1597	1700	1696	1709	1696	1579	1697	1628	1440	1103
1984	877	999	1704	1699	1704	1646	1519	1342	1281	1030	688	392
1985	216	349	926	973	939	905	833	803	683	476	265	178
1986	150	348	661	725	850	1127	1185	1210	1380	1343	1023	715
1987	497	475	983	982	937	911	799	787	677	485	295	201
1988	174	198	591	625	648	612	568	561	498	375	252	202
1989	179	187	541	559	570	575	563	571	476	350	231	190
1990	168	237	576	587	600	574	539	538	436	357	253	205
1991	181	280	535	537	530	534	489	390	390	348	226	172
1992	148	176	568	585	606	597	552	582	467	319	217	182
1993	158	172	539	654	779	792	783	691	794	782	480	209
1994	150	268	727	738	744	733	656	626	573	414	261	189
1995	164	410	637	743	894	1001	1044	1034	1220	1529	1267	873
1996	647	557	1046	1450	1497	1516	1378	1378	1410	1200	831	526
1997	334	450	940	1574	1650	1596	1464	1446	1355	1108	765	466
1998	266	305	741	956	1066	1082	1096	972	1059	1423	1130	820
1999	616	920	1497	1513	1543	1510	1367	1125	1073	769	398	175
2000	134	99	530	738	803	795	714	692	737	495	247	155
2001	128	284	695	710	717	698	629	625	582	387	216	161
2002	137	114	537	673	694	677	606	591	547	384	232	174
2003	149	121	485	692	731	663	554	491	567	411	221	158

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Change in Average Simulated 60 Deg F Cold Water Pool Volume-Millerton Lake and Temp Flat Reservoir (TAF)
Alternative3 (2005) - Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					770	913	885	782	817	951	836	550
1981	349	389	746	708	659	622	528	458	487	373	182	120
1982	106	27	439	423	449	526	578	695	874	1011	909	630
1983	416	649	1158	1262	1269	1276	1359	1433	1293	1191	1239	1000
1984	803	854	1258	1258	1256	1196	1067	968	990	907	611	339
1985	175	133	613	610	551	505	440	397	429	363	193	126
1986	113	212	416	401	459	695	728	795	953	1108	916	641
1987	442	310	654	622	558	510	439	420	428	368	219	147
1988	141	120	408	394	384	358	315	296	309	268	181	154
1989	149	114	386	374	367	357	320	302	308	252	163	143
1990	138	113	390	375	368	354	316	309	303	269	191	164
1991	157	175	389	374	366	366	321	235	229	236	156	125
1992	118	85	381	367	357	328	290	292	296	228	153	140
1993	134	101	366	370	381	395	409	375	415	495	361	131
1994	94	114	402	378	363	335	290	289	328	300	187	136
1995	125	234	418	424	481	591	666	720	859	1127	1111	787
1996	586	521	793	1140	1117	1091	998	1007	1095	1054	750	470
1997	298	238	538	1102	1248	1178	1037	1055	1107	1010	701	425
1998	242	196	476	621	629	658	647	630	707	1058	992	742
1999	563	710	1170	1150	1132	1083	984	810	767	624	318	119
2000	99	59	294	461	434	391	321	333	424	362	168	100
2001	93	121	440	423	413	387	331	323	364	286	149	116
2002	111	68	336	397	387	370	306	284	325	276	161	125
2003	120	54	254	395	387	340	275	259	286	273	145	105

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Percent Change in Average Simulated 60 Deg F Cold Water Pool Volume-Millerton Lake and Temp Flat Reservoir (TAF)
From Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					182%	207%	194%	169%	218%	288%	639%	671%
1981	579%	219%	199%	176%	155%	141%	130%	120%	226%	377%	266%	259%
1982	359%	16%	176%	118%	110%	119%	126%	152%	208%	350%	765%	762%
1983	410%	206%	264%	289%	297%	294%	402%	982%	320%	272%	617%	969%
1984	1073%	590%	282%	285%	280%	266%	236%	259%	340%	737%	800%	636%
1985	431%	61%	196%	168%	142%	126%	112%	98%	169%	322%	266%	240%
1986	310%	155%	170%	124%	118%	161%	159%	192%	224%	472%	857%	868%
1987	813%	188%	199%	173%	147%	127%	122%	115%	173%	314%	289%	275%
1988	421%	156%	223%	170%	146%	141%	124%	112%	163%	250%	256%	316%
1989	508%	155%	249%	203%	182%	164%	132%	112%	183%	255%	239%	307%
1990	453%	92%	210%	177%	159%	160%	142%	136%	226%	308%	303%	399%
1991	636%	166%	266%	231%	223%	219%	192%	152%	142%	210%	222%	268%
1992	393%	93%	204%	168%	144%	122%	110%	101%	174%	250%	238%	338%
1993	542%	143%	211%	130%	96%	99%	109%	119%	109%	172%	301%	167%
1994	169%	74%	124%	105%	95%	84%	79%	86%	135%	262%	255%	260%
1995	321%	133%	191%	133%	116%	144%	176%	229%	238%	281%	711%	914%
1996	961%	1469%	314%	368%	294%	257%	263%	271%	347%	721%	927%	843%
1997	824%	113%	134%	233%	311%	282%	243%	270%	446%	1032%	1082%	1037%
1998	995%	181%	180%	185%	144%	155%	144%	185%	201%	290%	721%	945%
1999	1057%	339%	358%	317%	275%	254%	257%	258%	251%	429%	398%	215%
2000	287%	148%	124%	167%	118%	97%	82%	93%	135%	273%	212%	182%
2001	266%	74%	172%	147%	135%	125%	111%	107%	167%	281%	222%	263%
2002	424%	151%	167%	144%	126%	121%	102%	92%	147%	257%	224%	257%
2003	416%	82%	110%	133%	113%	105%	99%	112%	102%	197%	189%	198%

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 60 Deg F Cold Water Pool Volume-Millerton Lake and Temp Flat Reservoir (TAF)
Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					423	442	457	464	375	330	131	82
1981	60	178	374	401	424	442	407	382	216	99	68	46
1982	30	170	249	357	410	441	457	457	421	289	119	83
1983	101	316	439	437	427	434	338	146	404	437	201	103
1984	75	145	446	441	449	450	453	374	291	123	76	53
1985	41	216	313	362	388	400	393	406	254	113	72	53
1986	37	137	245	323	391	432	457	415	426	235	107	74
1987	54	165	329	360	380	401	360	366	248	117	76	54
1988	33	77	183	231	263	254	253	265	189	107	71	49
1989	29	73	155	184	202	218	242	269	168	99	68	47
1990	30	124	186	212	231	221	223	228	134	88	63	41
1991	25	105	146	162	164	168	167	155	161	112	70	47
1992	30	91	187	219	249	268	262	289	170	91	64	41
1993	25	71	174	284	398	398	374	315	379	287	120	78
1994	56	154	325	360	381	398	366	337	244	114	74	52
1995	39	176	219	319	413	410	378	314	361	402	156	86
1996	61	35	253	310	380	424	380	371	315	146	81	56
1997	36	212	402	472	402	418	427	391	248	98	65	41
1998	24	108	265	335	437	424	449	341	352	365	138	78
1999	53	209	327	362	411	427	383	314	306	145	80	55
2000	35	40	236	277	369	404	393	359	313	133	79	55
2001	35	163	255	287	305	311	297	302	218	102	67	44
2002	26	45	201	275	307	307	301	307	222	108	72	49
2003	29	66	231	296	344	323	278	232	280	139	77	53

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 60 Deg F Cold Water Pool Volume-Millerton Lake and Temp Flat Reservoir (TAF)
Alternative4 (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					1359	1522	1558	1495	1408	1502	1374	1094
1981	850	1025	1335	1329	1306	1285	1153	1047	913	723	511	421
1982	334	450	845	944	1025	1134	1242	1400	1520	1512	1351	1069
1983	880	1333	1703	1702	1697	1710	1702	1581	1697	1629	1482	1204
1984	952	1076	1705	1700	1707	1652	1569	1428	1388	1230	920	710
1985	525	673	1107	1119	1089	1057	987	964	854	652	484	367
1986	296	513	812	884	1013	1289	1371	1402	1518	1442	1167	887
1987	674	743	1131	1121	1084	1059	935	916	818	634	484	371
1988	307	322	719	767	797	760	711	710	636	510	367	303
1989	260	265	658	708	725	729	700	697	593	488	362	301
1990	259	303	710	736	755	726	680	672	556	447	339	298
1991	267	354	663	679	679	682	633	523	518	441	307	265
1992	228	227	702	734	761	750	695	711	585	472	361	302
1993	260	258	691	803	934	942	990	948	1103	1155	872	698
1994	541	640	964	967	946	908	821	793	751	586	444	336
1995	278	537	773	893	1050	1154	1208	1257	1423	1551	1338	1018
1996	792	699	1226	1481	1533	1555	1432	1436	1417	1268	939	741
1997	568	614	1260	1607	1652	1602	1508	1478	1375	1174	865	716
1998	548	543	1016	1053	1170	1194	1261	1211	1332	1441	1215	963
1999	753	1046	1469	1493	1528	1502	1371	1141	1123	886	677	471
2000	351	328	699	857	932	922	855	836	899	714	494	397
2001	310	495	841	862	872	847	773	782	737	548	436	330
2002	265	233	698	823	850	835	761	753	716	557	448	343
2003	276	244	654	839	885	823	720	663	748	582	445	335

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Change in Average Simulated 60 Deg F Cold Water Pool Volume-Millerton Lake and Temp Flat Reservoir (TAF)
Alternative4 (2005) - Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					936	1080	1101	1031	1034	1173	1244	1012
1981	790	847	961	928	882	843	747	665	697	624	442	375
1982	304	280	595	586	616	693	785	942	1099	1223	1232	986
1983	779	1017	1264	1264	1270	1277	1364	1435	1293	1192	1281	1101
1984	877	931	1259	1259	1258	1202	1117	1054	1098	1107	844	657
1985	485	457	794	756	701	657	594	558	600	539	412	315
1986	260	377	567	561	622	858	914	987	1092	1207	1060	813
1987	619	578	802	761	705	658	575	550	570	517	409	318
1988	274	244	535	535	533	506	457	445	447	403	297	255
1989	231	192	502	523	523	511	458	428	425	390	294	254
1990	229	180	524	524	524	506	457	444	423	360	276	257
1991	242	249	517	516	515	514	466	368	357	329	237	219
1992	198	136	516	515	513	482	433	422	415	381	297	261
1993	236	188	518	519	536	545	616	633	724	868	753	620
1994	485	487	640	607	566	510	455	455	507	472	371	284
1995	239	361	554	574	637	744	830	943	1062	1149	1182	932
1996	731	664	973	1171	1153	1130	1052	1065	1102	1121	858	685
1997	532	402	858	1136	1250	1183	1081	1088	1127	1077	801	675
1998	524	435	752	718	733	770	813	870	980	1076	1077	884
1999	699	836	1142	1131	1117	1075	988	827	817	741	597	416
2000	316	288	462	581	563	518	462	477	586	581	415	342
2001	275	333	585	575	567	537	476	480	518	447	369	286
2002	238	187	497	547	543	528	461	446	494	449	376	294
2003	247	177	423	543	542	500	442	432	468	443	369	283

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Percent Change in Average Simulated 60 Deg F Cold Water Pool Volume-Millerton Lake and Temp Flat Reservoir (TAF)
From Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					221%	245%	241%	222%	276%	356%	951%	1235%
1981	1311%	476%	257%	232%	208%	191%	184%	174%	322%	631%	646%	813%
1982	1030%	165%	239%	164%	150%	157%	172%	206%	261%	423%	1037%	1191%
1983	768%	322%	288%	289%	298%	295%	404%	983%	320%	273%	638%	1066%
1984	1172%	643%	282%	285%	280%	267%	247%	282%	377%	899%	1104%	1232%
1985	1193%	211%	254%	209%	181%	164%	151%	137%	236%	478%	570%	599%
1986	711%	276%	232%	174%	159%	199%	200%	238%	256%	514%	991%	1101%
1987	1138%	351%	244%	211%	186%	164%	159%	150%	230%	441%	539%	593%
1988	818%	316%	292%	232%	202%	199%	181%	168%	236%	377%	419%	523%
1989	786%	261%	324%	284%	258%	234%	189%	159%	253%	396%	432%	545%
1990	752%	145%	282%	247%	226%	229%	205%	195%	316%	410%	439%	627%
1991	986%	237%	353%	318%	314%	307%	279%	238%	222%	293%	338%	468%
1992	659%	149%	276%	236%	206%	179%	165%	146%	243%	418%	464%	629%
1993	955%	265%	298%	183%	135%	137%	165%	201%	191%	302%	629%	792%
1994	873%	317%	197%	168%	149%	128%	124%	135%	208%	413%	504%	541%
1995	612%	205%	253%	180%	154%	181%	219%	300%	294%	286%	757%	1083%
1996	1198%	1870%	385%	378%	304%	266%	277%	287%	349%	767%	1061%	1227%
1997	1470%	190%	214%	241%	311%	283%	253%	279%	454%	1100%	1236%	1647%
1998	2154%	401%	284%	214%	168%	182%	181%	255%	279%	295%	783%	1127%
1999	1315%	400%	350%	312%	272%	252%	258%	263%	267%	510%	746%	751%
2000	915%	719%	196%	210%	152%	128%	118%	133%	187%	438%	524%	623%
2001	786%	204%	229%	200%	186%	173%	160%	159%	237%	440%	551%	645%
2002	912%	412%	248%	199%	177%	172%	153%	145%	223%	418%	524%	604%
2003	858%	268%	183%	183%	158%	155%	159%	186%	167%	319%	481%	535%

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 60 Deg F Cold Water Pool Volume-Millerton Lake and Temp Flat Reservoir (TAF)
Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					423	442	457	464	375	330	131	82
1981	60	178	374	401	424	442	407	382	216	99	68	46
1982	30	170	249	357	410	441	457	457	421	289	119	83
1983	101	316	439	437	427	434	338	146	404	437	201	103
1984	75	145	446	441	449	450	453	374	291	123	76	53
1985	41	216	313	362	388	400	393	406	254	113	72	53
1986	37	137	245	323	391	432	457	415	426	235	107	74
1987	54	165	329	360	380	401	360	366	248	117	76	54
1988	33	77	183	231	263	254	253	265	189	107	71	49
1989	29	73	155	184	202	218	242	269	168	99	68	47
1990	30	124	186	212	231	221	223	228	134	88	63	41
1991	25	105	146	162	164	168	167	155	161	112	70	47
1992	30	91	187	219	249	268	262	289	170	91	64	41
1993	25	71	174	284	398	398	374	315	379	287	120	78
1994	56	154	325	360	381	398	366	337	244	114	74	52
1995	39	176	219	319	413	410	378	314	361	402	156	86
1996	61	35	253	310	380	424	380	371	315	146	81	56
1997	36	212	402	472	402	418	427	391	248	98	65	41
1998	24	108	265	335	437	424	449	341	352	365	138	78
1999	53	209	327	362	411	427	383	314	306	145	80	55
2000	35	40	236	277	369	404	393	359	313	133	79	55
2001	35	163	255	287	305	311	297	302	218	102	67	44
2002	26	45	201	275	307	307	301	307	222	108	72	49
2003	29	66	231	296	344	323	278	232	280	139	77	53

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 60 Deg F Cold Water Pool Volume-Millerton Lake and Temp Flat Reservoir (TAF)
Alternative5 (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					1067	1236	1224	1119	1080	1185	884	569
1981	353	470	1067	1055	1028	998	847	718	538	270	116	77
1982	85	219	345	434	505	613	703	848	977	984	736	455
1983	294	709	1384	1556	1689	1706	1700	1586	1697	1630	1447	1116
1984	886	1004	1700	1695	1700	1643	1514	1331	1281	1050	721	420
1985	228	364	944	988	950	905	804	735	575	323	146	103
1986	79	245	410	470	580	850	925	954	1114	991	667	377
1987	207	296	793	841	811	789	679	645	505	288	147	107
1988	78	142	299	326	341	320	300	298	239	170	133	99
1989	76	139	209	224	235	252	279	306	220	166	131	97
1990	74	196	240	252	264	255	260	262	192	157	124	93
1991	73	171	199	201	195	200	198	186	210	160	104	67
1992	56	143	231	248	271	287	279	317	212	157	123	91
1993	70	134	222	320	444	490	494	425	563	568	305	160
1994	125	244	672	689	699	687	601	551	467	278	152	106
1995	95	283	347	447	588	696	764	773	931	1383	1202	821
1996	599	517	1003	1454	1495	1510	1373	1369	1402	1211	852	550
1997	352	454	964	1546	1646	1591	1469	1446	1359	1120	787	493
1998	283	319	751	970	1077	1091	1107	984	1084	1443	1138	814
1999	613	924	1494	1509	1539	1506	1379	1159	1151	901	571	312
2000	185	131	592	828	866	835	749	715	762	539	274	156
2001	125	276	717	729	733	705	620	591	494	249	119	81
2002	62	74	347	409	424	413	365	364	325	179	124	93
2003	70	141	349	399	437	396	307	269	375	215	111	74

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Change in Average Simulated 60 Deg F Cold Water Pool Volume-Millerton Lake and Temp Flat Reservoir (TAF)
Alternative5 (2005) - Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					644	794	767	656	705	856	753	487
1981	293	292	693	654	604	556	441	337	322	171	48	31
1982	55	50	96	76	96	172	246	391	556	695	617	372
1983	192	393	945	1119	1262	1272	1363	1440	1293	1193	1247	1013
1984	811	859	1254	1254	1252	1193	1061	957	990	927	645	366
1985	187	147	632	625	562	505	411	329	321	210	74	51
1986	43	109	165	146	190	418	468	539	688	757	560	304
1987	152	131	464	481	431	388	318	279	257	171	71	53
1988	45	65	115	95	78	66	47	33	50	63	62	50
1989	47	66	54	40	33	33	37	37	52	67	63	50
1990	43	73	54	40	33	35	37	34	58	69	61	51
1991	48	66	53	38	31	32	31	31	50	48	34	20
1992	26	52	44	30	23	18	17	28	41	66	59	49
1993	45	64	49	35	46	93	120	110	183	281	186	81
1994	69	90	348	329	318	289	235	213	223	164	78	54
1995	56	107	128	128	175	286	386	459	570	982	1046	734
1996	538	482	750	1144	1115	1085	993	998	1087	1065	771	494
1997	316	242	562	1074	1244	1173	1041	1056	1111	1022	722	452
1998	259	211	486	634	640	667	658	643	732	1078	1001	735
1999	560	715	1167	1147	1128	1079	996	845	845	755	491	257
2000	150	91	356	552	496	431	356	356	448	407	195	101
2001	90	114	461	442	428	394	323	289	276	147	52	36
2002	36	28	147	134	117	106	65	57	104	71	52	45
2003	41	75	118	102	94	73	28	37	95	77	34	21

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Percent Change in Average Simulated 60 Deg F Cold Water Pool Volume-Millerton Lake and Temp Flat Reservoir (TAF)
From Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					152%	180%	168%	141%	188%	260%	576%	595%
1981	486%	164%	185%	163%	142%	126%	108%	88%	149%	173%	70%	67%
1982	187%	29%	38%	21%	23%	39%	54%	85%	132%	240%	520%	450%
1983	189%	125%	215%	256%	296%	293%	404%	986%	320%	273%	621%	982%
1984	1085%	593%	281%	284%	279%	265%	234%	256%	340%	753%	844%	687%
1985	461%	68%	202%	172%	145%	126%	105%	81%	126%	186%	102%	97%
1986	117%	80%	67%	45%	49%	97%	102%	130%	161%	322%	524%	411%
1987	280%	80%	141%	133%	114%	97%	88%	76%	104%	146%	94%	99%
1988	134%	84%	63%	41%	29%	26%	18%	13%	26%	59%	88%	103%
1989	160%	90%	35%	21%	16%	15%	15%	14%	31%	68%	92%	107%
1990	143%	59%	29%	19%	14%	16%	16%	15%	44%	79%	98%	125%
1991	197%	62%	36%	24%	19%	19%	19%	20%	31%	43%	49%	43%
1992	86%	57%	24%	14%	9%	7%	7%	10%	24%	73%	91%	119%
1993	182%	90%	28%	12%	12%	23%	32%	35%	48%	98%	155%	104%
1994	124%	59%	107%	91%	84%	73%	64%	63%	91%	144%	106%	102%
1995	144%	61%	59%	40%	42%	70%	102%	146%	158%	244%	670%	853%
1996	883%	1357%	297%	369%	294%	256%	262%	269%	344%	728%	953%	885%
1997	872%	114%	140%	228%	310%	281%	244%	270%	447%	1045%	1115%	1103%
1998	1064%	195%	184%	189%	146%	157%	147%	188%	208%	295%	728%	937%
1999	1053%	341%	357%	316%	275%	253%	260%	269%	276%	520%	614%	464%
2000	435%	228%	150%	200%	134%	107%	90%	99%	143%	307%	247%	184%
2001	258%	70%	181%	154%	141%	127%	109%	96%	126%	145%	77%	82%
2002	137%	62%	73%	49%	38%	35%	21%	19%	47%	66%	72%	92%
2003	142%	113%	51%	35%	27%	23%	10%	16%	34%	55%	45%	40%

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 60 Deg F Cold Water Pool Volume-Millerton Lake and Temp Flat Reservoir (TAF)
No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					421	444	470	449	330	330	132	84
1981	62	180	373	391	419	443	405	376	214	99	68	46
1982	29	168	246	340	385	433	450	455	419	289	117	83
1983	102	315	437	435	424	432	314	137	404	433	201	101
1984	73	145	439	434	441	442	402	295	240	112	73	50
1985	39	221	295	331	352	365	352	364	228	106	70	52
1986	37	132	230	294	359	425	424	382	422	239	105	73
1987	54	169	313	330	343	365	329	339	227	109	72	51
1988	33	79	150	186	213	208	211	219	161	98	67	46
1989	27	72	151	166	177	195	228	258	162	97	68	46
1990	30	122	182	194	207	198	204	213	127	87	63	42
1991	25	108	143	145	141	151	151	141	154	111	70	46
1992	30	91	184	201	225	245	243	273	160	89	63	40
1993	24	71	171	268	389	430	388	278	334	271	115	76
1994	53	152	293	315	328	348	321	306	227	113	75	52
1995	36	201	251	351	438	441	367	264	341	401	156	86
1996	61	35	242	284	357	424	364	336	304	140	80	55
1997	35	211	393	467	397	413	386	348	227	92	59	35
1998	22	109	222	279	409	432	438	318	346	356	130	77
1999	52	209	314	336	377	394	338	268	275	134	78	53
2000	33	43	222	248	335	372	335	313	313	134	79	55
2001	35	162	246	263	274	282	268	277	212	100	66	43
2002	25	45	188	249	275	276	263	268	199	104	70	47
2003	28	77	219	270	311	294	249	201	259	134	76	52

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 60 Deg F Cold Water Pool Volume-Millerton Lake and Temp Flat Reservoir (TAF)
Alternative1 (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					1182	1342	1328	1234	1189	1295	1003	682
1981	444	595	1125	1104	1076	1060	936	847	716	486	265	168
1982	129	176	679	764	842	954	1023	1139	1276	1269	971	646
1983	437	853	1567	1695	1695	1708	1696	1578	1698	1629	1441	1104
1984	874	994	1703	1698	1704	1646	1520	1345	1299	1077	751	446
1985	244	375	930	967	931	901	840	815	698	495	285	183
1986	148	342	664	724	848	1126	1184	1206	1372	1330	1006	686
1987	460	462	967	975	931	907	796	784	673	482	292	200
1988	174	198	590	623	647	611	569	561	498	375	253	202
1989	179	187	541	558	569	575	563	571	476	351	232	190
1990	168	237	575	587	599	574	539	538	436	357	253	205
1991	181	280	534	536	530	533	488	390	390	348	225	171
1992	148	175	567	585	605	596	551	581	466	319	216	181
1993	158	172	539	654	778	793	786	695	807	808	517	258
1994	159	265	726	729	731	722	649	622	572	419	267	193
1995	169	418	636	742	893	1002	1047	1042	1231	1535	1271	883
1996	663	568	1061	1452	1497	1519	1385	1385	1424	1242	895	590
1997	386	461	986	1584	1649	1595	1465	1452	1367	1136	805	509
1998	293	318	744	950	1058	1076	1091	975	1075	1439	1136	804
1999	589	871	1447	1454	1478	1452	1314	1082	1050	786	441	196
2000	135	94	526	728	793	790	717	694	753	535	284	164
2001	126	274	694	701	707	692	630	627	575	386	218	164
2002	140	116	549	675	698	686	617	598	555	391	238	177
2003	152	122	502	695	735	679	569	503	584	438	241	165

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Change in Average Simulated 60 Deg F Cold Water Pool Volume-Millerton Lake and Temp Flat Reservoir (TAF)
Alternative1 (2030) - No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					761	898	858	785	860	965	870	598
1981	382	414	752	713	657	617	531	471	501	387	197	121
1982	100	8	433	424	457	520	572	684	857	979	854	563
1983	335	538	1130	1259	1271	1276	1381	1441	1294	1196	1241	1004
1984	800	849	1264	1264	1263	1204	1117	1050	1059	965	678	395
1985	204	154	635	636	579	536	487	452	469	389	215	131
1986	111	210	435	430	489	701	759	824	950	1091	901	614
1987	406	294	654	645	589	542	467	444	446	373	220	148
1988	141	119	440	437	433	403	358	341	338	278	185	157
1989	151	116	390	393	392	380	335	314	315	254	164	144
1990	138	114	393	393	393	376	335	325	309	270	190	162
1991	156	172	391	391	389	382	337	249	236	237	156	125
1992	118	84	384	383	381	351	309	308	306	229	154	141
1993	134	101	368	386	389	363	398	417	473	537	402	182
1994	106	113	433	414	403	374	328	317	345	305	192	141
1995	133	217	385	392	455	562	679	778	890	1134	1115	798
1996	602	533	819	1168	1140	1095	1021	1050	1120	1102	815	535
1997	351	250	593	1117	1252	1183	1078	1104	1140	1044	746	474
1998	271	208	522	671	648	644	653	658	729	1083	1007	728
1999	538	662	1133	1118	1101	1058	976	813	775	652	363	142
2000	102	51	304	479	458	419	382	382	440	402	205	110
2001	92	112	449	438	433	410	361	350	362	286	152	121
2002	115	71	361	426	423	410	354	330	356	287	168	130
2003	124	45	284	425	424	386	321	302	325	304	166	113

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Percent Change in Average Simulated 60 Deg F Cold Water Pool Volume-Millerton Lake and Temp Flat Reservoir (TAF)
From No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					181%	202%	183%	175%	261%	292%	657%	715%
1981	614%	230%	201%	182%	157%	139%	131%	125%	234%	391%	287%	262%
1982	340%	5%	176%	125%	119%	120%	127%	150%	204%	338%	730%	681%
1983	328%	171%	259%	289%	300%	295%	439%	1050%	320%	276%	618%	996%
1984	1091%	585%	288%	291%	287%	273%	278%	356%	441%	862%	933%	786%
1985	523%	69%	215%	192%	165%	147%	138%	124%	206%	368%	307%	252%
1986	302%	160%	189%	146%	136%	165%	179%	215%	225%	456%	858%	845%
1987	752%	174%	209%	195%	172%	148%	142%	131%	196%	343%	303%	288%
1988	431%	152%	293%	234%	203%	194%	170%	155%	210%	284%	275%	343%
1989	553%	162%	259%	237%	221%	195%	147%	122%	195%	262%	242%	310%
1990	458%	94%	216%	203%	190%	190%	164%	153%	243%	312%	300%	384%
1991	616%	159%	273%	269%	276%	254%	224%	176%	153%	214%	224%	271%
1992	396%	92%	209%	190%	170%	143%	127%	113%	190%	257%	245%	350%
1993	556%	142%	216%	144%	100%	84%	103%	150%	142%	198%	350%	240%
1994	200%	74%	147%	131%	123%	107%	102%	104%	152%	270%	257%	272%
1995	372%	108%	153%	112%	104%	128%	185%	295%	261%	283%	716%	932%
1996	994%	1525%	338%	411%	319%	258%	280%	313%	368%	790%	1017%	974%
1997	989%	119%	151%	239%	316%	287%	279%	317%	503%	1134%	1253%	1357%
1998	1249%	191%	235%	241%	158%	149%	149%	207%	210%	304%	777%	949%
1999	1037%	317%	361%	333%	292%	269%	289%	303%	281%	487%	468%	267%
2000	312%	119%	137%	193%	137%	113%	114%	122%	141%	301%	260%	201%
2001	264%	69%	183%	167%	158%	145%	135%	126%	171%	288%	232%	282%
2002	450%	158%	192%	171%	154%	148%	134%	123%	179%	275%	239%	277%
2003	446%	59%	130%	158%	136%	131%	129%	150%	126%	226%	219%	219%

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 60 Deg F Cold Water Pool Volume-Millerton Lake and Temp Flat Reservoir (TAF)
No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					421	444	470	449	330	330	132	84
1981	62	180	373	391	419	443	405	376	214	99	68	46
1982	29	168	246	340	385	433	450	455	419	289	117	83
1983	102	315	437	435	424	432	314	137	404	433	201	101
1984	73	145	439	434	441	442	402	295	240	112	73	50
1985	39	221	295	331	352	365	352	364	228	106	70	52
1986	37	132	230	294	359	425	424	382	422	239	105	73
1987	54	169	313	330	343	365	329	339	227	109	72	51
1988	33	79	150	186	213	208	211	219	161	98	67	46
1989	27	72	151	166	177	195	228	258	162	97	68	46
1990	30	122	182	194	207	198	204	213	127	87	63	42
1991	25	108	143	145	141	151	151	141	154	111	70	46
1992	30	91	184	201	225	245	243	273	160	89	63	40
1993	24	71	171	268	389	430	388	278	334	271	115	76
1994	53	152	293	315	328	348	321	306	227	113	75	52
1995	36	201	251	351	438	441	367	264	341	401	156	86
1996	61	35	242	284	357	424	364	336	304	140	80	55
1997	35	211	393	467	397	413	386	348	227	92	59	35
1998	22	109	222	279	409	432	438	318	346	356	130	77
1999	52	209	314	336	377	394	338	268	275	134	78	53
2000	33	43	222	248	335	372	335	313	313	134	79	55
2001	35	162	246	263	274	282	268	277	212	100	66	43
2002	25	45	188	249	275	276	263	268	199	104	70	47
2003	28	77	219	270	311	294	249	201	259	134	76	52

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 60 Deg F Cold Water Pool Volume-Millerton Lake and Temp Flat Reservoir (TAF)
Alternative2 (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					1185	1347	1334	1238	1193	1301	1022	699
1981	463	602	1128	1107	1079	1062	937	848	717	492	275	173
1982	131	169	687	770	847	958	1026	1144	1279	1273	978	657
1983	448	868	1575	1697	1695	1708	1695	1577	1698	1626	1439	1105
1984	874	995	1703	1698	1703	1645	1519	1344	1297	1080	761	459
1985	259	396	937	974	938	908	845	820	705	508	300	190
1986	152	340	673	731	855	1132	1191	1213	1380	1337	1021	705
1987	479	471	980	983	940	914	802	790	680	489	299	203
1988	176	200	594	627	650	614	572	564	499	373	251	202
1989	179	186	544	562	572	578	566	574	482	358	236	192
1990	170	238	578	590	603	577	543	541	437	356	255	206
1991	182	281	538	539	533	537	492	393	392	350	228	173
1992	149	176	571	588	609	599	555	584	469	321	218	182
1993	159	173	543	657	781	795	787	694	808	807	518	262
1994	163	265	734	737	740	729	656	629	577	422	269	194
1995	169	417	640	746	896	1005	1048	1042	1233	1537	1272	886
1996	665	568	1059	1451	1496	1516	1381	1382	1420	1244	906	603
1997	400	463	1001	1586	1650	1595	1463	1450	1365	1136	813	522
1998	305	329	746	954	1062	1078	1092	976	1076	1444	1146	810
1999	595	878	1446	1453	1478	1450	1311	1077	1046	790	448	205
2000	141	96	527	732	797	793	718	696	755	539	293	171
2001	130	268	701	707	712	696	632	630	584	393	221	165
2002	141	116	548	675	698	685	616	598	554	391	238	177
2003	152	122	503	694	734	679	567	502	584	439	245	167

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Change in Average Simulated 60 Deg F Cold Water Pool Volume-Millerton Lake and Temp Flat Reservoir (TAF)
Alternative2 (2030) - No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					764	903	864	789	863	971	889	616
1981	401	422	755	716	660	619	532	472	503	393	207	127
1982	102	1	441	430	462	524	576	689	860	983	861	574
1983	346	553	1138	1261	1271	1276	1381	1439	1294	1192	1238	1005
1984	801	849	1264	1264	1262	1203	1117	1049	1057	968	689	409
1985	220	174	642	642	586	543	493	457	477	402	230	138
1986	115	208	444	437	495	707	766	831	958	1098	916	632
1987	425	302	667	653	598	549	473	451	453	381	226	151
1988	143	121	444	441	437	406	362	344	338	276	183	156
1989	151	115	393	396	395	383	338	317	320	261	169	146
1990	140	116	396	396	396	380	339	328	310	269	191	164
1991	157	174	394	394	392	386	342	252	237	239	159	127
1992	120	85	387	387	384	354	312	311	309	232	155	142
1993	135	102	372	390	393	365	399	417	474	536	403	186
1994	110	113	441	422	412	381	334	323	350	308	194	142
1995	134	216	388	395	458	564	680	779	891	1136	1117	801
1996	605	533	817	1167	1139	1092	1017	1047	1116	1104	826	548
1997	365	253	608	1119	1253	1183	1077	1102	1139	1043	754	487
1998	284	220	524	675	653	646	654	659	730	1089	1016	733
1999	543	669	1132	1118	1100	1056	972	808	771	656	371	151
2000	108	53	305	484	462	422	383	384	442	406	214	116
2001	95	106	455	444	439	414	363	352	372	293	156	122
2002	115	71	360	426	423	409	353	330	355	286	167	130
2003	124	45	284	425	423	385	319	301	325	305	169	116

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Percent Change in Average Simulated 60 Deg F Cold Water Pool Volume-Millerton Lake and Temp Flat Reservoir (TAF)
From No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					182%	203%	184%	176%	262%	294%	671%	735%
1981	646%	234%	202%	183%	157%	140%	131%	126%	235%	397%	302%	274%
1982	349%	0%	179%	126%	120%	121%	128%	151%	205%	340%	736%	694%
1983	339%	175%	260%	290%	300%	295%	439%	1050%	320%	275%	616%	997%
1984	1092%	585%	288%	291%	286%	272%	278%	355%	440%	864%	948%	813%
1985	563%	79%	218%	194%	167%	149%	140%	125%	209%	380%	328%	267%
1986	315%	158%	193%	149%	138%	166%	181%	217%	227%	459%	873%	870%
1987	788%	179%	213%	198%	174%	150%	144%	133%	199%	350%	312%	294%
1988	436%	155%	296%	236%	205%	195%	172%	157%	211%	282%	272%	343%
1989	553%	160%	261%	239%	223%	197%	148%	123%	198%	269%	249%	315%
1990	465%	95%	218%	204%	192%	192%	166%	154%	243%	311%	303%	388%
1991	621%	161%	275%	271%	278%	256%	226%	178%	154%	216%	229%	274%
1992	402%	93%	210%	192%	171%	145%	129%	114%	192%	260%	247%	352%
1993	561%	144%	218%	146%	101%	85%	103%	150%	142%	198%	352%	246%
1994	207%	74%	150%	134%	125%	109%	104%	106%	154%	272%	259%	274%
1995	374%	108%	154%	113%	105%	128%	185%	295%	261%	283%	717%	936%
1996	998%	1525%	337%	411%	319%	257%	279%	312%	367%	791%	1031%	997%
1997	1029%	120%	155%	239%	316%	287%	279%	316%	502%	1133%	1267%	1392%
1998	1306%	201%	236%	242%	159%	149%	149%	207%	211%	306%	785%	956%
1999	1047%	321%	360%	333%	292%	268%	288%	301%	280%	491%	477%	284%
2000	328%	123%	138%	195%	138%	114%	114%	123%	141%	304%	271%	212%
2001	274%	66%	185%	169%	160%	147%	135%	127%	175%	294%	237%	284%
2002	453%	158%	191%	171%	154%	148%	134%	123%	179%	274%	239%	277%
2003	445%	59%	130%	158%	136%	131%	128%	149%	126%	227%	224%	223%

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 60 Deg F Cold Water Pool Volume-Millerton Lake and Temp Flat Reservoir (TAF)
No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					421	444	470	449	330	330	132	84
1981	62	180	373	391	419	443	405	376	214	99	68	46
1982	29	168	246	340	385	433	450	455	419	289	117	83
1983	102	315	437	435	424	432	314	137	404	433	201	101
1984	73	145	439	434	441	442	402	295	240	112	73	50
1985	39	221	295	331	352	365	352	364	228	106	70	52
1986	37	132	230	294	359	425	424	382	422	239	105	73
1987	54	169	313	330	343	365	329	339	227	109	72	51
1988	33	79	150	186	213	208	211	219	161	98	67	46
1989	27	72	151	166	177	195	228	258	162	97	68	46
1990	30	122	182	194	207	198	204	213	127	87	63	42
1991	25	108	143	145	141	151	151	141	154	111	70	46
1992	30	91	184	201	225	245	243	273	160	89	63	40
1993	24	71	171	268	389	430	388	278	334	271	115	76
1994	53	152	293	315	328	348	321	306	227	113	75	52
1995	36	201	251	351	438	441	367	264	341	401	156	86
1996	61	35	242	284	357	424	364	336	304	140	80	55
1997	35	211	393	467	397	413	386	348	227	92	59	35
1998	22	109	222	279	409	432	438	318	346	356	130	77
1999	52	209	314	336	377	394	338	268	275	134	78	53
2000	33	43	222	248	335	372	335	313	313	134	79	55
2001	35	162	246	263	274	282	268	277	212	100	66	43
2002	25	45	188	249	275	276	263	268	199	104	70	47
2003	28	77	219	270	311	294	249	201	259	134	76	52

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 60 Deg F Cold Water Pool Volume-Millerton Lake and Temp Flat Reservoir (TAF)
Alternative3 (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					1193	1354	1342	1246	1192	1280	966	632
1981	409	567	1120	1108	1083	1064	935	840	703	472	250	166
1982	136	196	688	780	859	967	1035	1152	1294	1300	1028	713
1983	517	965	1597	1700	1696	1709	1696	1579	1697	1628	1440	1103
1984	877	999	1704	1699	1704	1646	1519	1342	1281	1030	688	392
1985	216	349	926	973	939	905	833	803	683	476	265	178
1986	150	348	661	725	850	1127	1185	1210	1380	1343	1023	715
1987	497	475	983	982	937	911	799	787	677	485	295	201
1988	174	198	591	625	648	612	568	561	498	375	252	202
1989	179	187	541	559	570	575	563	571	476	350	231	190
1990	168	237	576	587	600	574	539	538	436	357	253	205
1991	181	280	535	537	530	534	489	390	390	348	226	172
1992	148	176	568	585	606	597	552	582	467	319	217	182
1993	158	172	539	654	779	792	783	691	794	782	480	209
1994	150	268	727	738	744	733	656	626	573	414	261	189
1995	164	410	637	743	894	1001	1044	1034	1220	1529	1267	873
1996	647	557	1046	1450	1497	1516	1378	1378	1410	1200	831	526
1997	334	450	940	1574	1650	1596	1464	1446	1355	1108	765	466
1998	266	305	741	956	1066	1082	1096	972	1059	1423	1130	820
1999	616	920	1497	1513	1543	1510	1367	1125	1073	769	398	175
2000	134	99	530	738	803	795	714	692	737	495	247	155
2001	128	284	695	710	717	698	629	625	582	387	216	161
2002	137	114	537	673	694	677	606	591	547	384	232	174
2003	149	121	485	692	731	663	554	491	567	411	221	158

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Change in Average Simulated 60 Deg F Cold Water Pool Volume-Millerton Lake and Temp Flat Reservoir (TAF)
Alternative3 (2030) - No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					772	910	873	797	862	950	834	548
1981	347	387	747	717	664	621	530	464	489	373	182	120
1982	106	28	442	440	474	534	584	698	876	1011	911	631
1983	415	649	1160	1264	1272	1277	1382	1441	1293	1195	1239	1003
1984	804	854	1265	1265	1264	1205	1117	1047	1041	918	615	342
1985	177	128	631	642	587	540	481	440	455	370	195	126
1986	113	216	431	431	490	702	761	827	957	1104	918	642
1987	443	307	669	652	595	546	470	447	450	377	222	149
1988	142	119	441	438	434	404	358	341	338	277	185	157
1989	151	115	391	393	392	381	335	313	315	253	163	144
1990	138	115	394	393	393	376	335	325	309	270	190	162
1991	156	172	392	391	389	383	338	249	236	237	156	126
1992	118	85	384	384	381	352	309	309	306	230	154	141
1993	134	101	369	387	390	362	396	413	460	511	366	134
1994	97	116	433	424	415	384	334	320	345	301	186	137
1995	129	209	386	392	456	561	677	770	879	1128	1111	788
1996	587	522	804	1165	1139	1091	1014	1042	1106	1060	751	471
1997	299	239	548	1106	1253	1183	1078	1098	1128	1016	706	431
1998	244	195	518	677	657	650	658	654	712	1067	1000	743
1999	564	711	1183	1177	1166	1116	1029	856	798	636	321	121
2000	101	56	308	489	468	423	379	380	424	361	168	100
2001	93	122	450	447	444	416	361	348	369	288	150	118
2002	111	69	348	424	419	401	343	323	348	279	162	127
2003	121	44	267	422	420	370	305	290	308	277	146	106

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Percent Change in Average Simulated 60 Deg F Cold Water Pool Volume-Millerton Lake and Temp Flat Reservoir (TAF)
From No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					183%	205%	186%	177%	262%	288%	629%	655%
1981	558%	214%	200%	183%	158%	140%	131%	123%	228%	377%	266%	258%
1982	363%	17%	180%	129%	123%	123%	130%	153%	209%	349%	778%	762%
1983	407%	206%	265%	290%	300%	295%	439%	1051%	320%	276%	617%	995%
1984	1096%	588%	288%	291%	287%	273%	278%	355%	433%	820%	846%	680%
1985	451%	58%	214%	194%	167%	148%	136%	121%	199%	349%	279%	243%
1986	309%	164%	188%	147%	136%	165%	179%	216%	227%	462%	875%	884%
1987	820%	182%	214%	197%	174%	150%	143%	132%	198%	346%	306%	290%
1988	432%	152%	294%	235%	204%	194%	170%	155%	210%	284%	274%	343%
1989	553%	161%	259%	237%	221%	195%	147%	122%	195%	261%	242%	310%
1990	459%	94%	216%	203%	190%	190%	164%	153%	243%	312%	300%	384%
1991	617%	159%	273%	269%	276%	254%	224%	176%	153%	214%	225%	272%
1992	397%	93%	209%	191%	170%	143%	128%	113%	191%	258%	245%	350%
1993	557%	142%	216%	145%	100%	84%	102%	149%	138%	189%	319%	177%
1994	182%	76%	148%	135%	127%	110%	104%	105%	152%	265%	249%	264%
1995	360%	104%	153%	112%	104%	127%	184%	292%	258%	281%	714%	921%
1996	968%	1494%	332%	410%	319%	257%	278%	310%	364%	759%	937%	858%
1997	843%	114%	139%	237%	316%	287%	279%	315%	497%	1103%	1187%	1234%
1998	1125%	179%	233%	242%	160%	150%	150%	206%	206%	300%	772%	970%
1999	1088%	341%	377%	351%	309%	284%	304%	319%	290%	475%	412%	227%
2000	307%	131%	139%	197%	140%	114%	113%	122%	136%	270%	212%	183%
2001	269%	75%	183%	170%	162%	148%	134%	125%	174%	289%	229%	275%
2002	438%	153%	185%	170%	152%	145%	130%	121%	175%	267%	232%	269%
2003	434%	57%	122%	157%	135%	126%	123%	144%	119%	207%	193%	205%

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 60 Deg F Cold Water Pool Volume-Millerton Lake and Temp Flat Reservoir (TAF)
No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					421	444	470	449	330	330	132	84
1981	62	180	373	391	419	443	405	376	214	99	68	46
1982	29	168	246	340	385	433	450	455	419	289	117	83
1983	102	315	437	435	424	432	314	137	404	433	201	101
1984	73	145	439	434	441	442	402	295	240	112	73	50
1985	39	221	295	331	352	365	352	364	228	106	70	52
1986	37	132	230	294	359	425	424	382	422	239	105	73
1987	54	169	313	330	343	365	329	339	227	109	72	51
1988	33	79	150	186	213	208	211	219	161	98	67	46
1989	27	72	151	166	177	195	228	258	162	97	68	46
1990	30	122	182	194	207	198	204	213	127	87	63	42
1991	25	108	143	145	141	151	151	141	154	111	70	46
1992	30	91	184	201	225	245	243	273	160	89	63	40
1993	24	71	171	268	389	430	388	278	334	271	115	76
1994	53	152	293	315	328	348	321	306	227	113	75	52
1995	36	201	251	351	438	441	367	264	341	401	156	86
1996	61	35	242	284	357	424	364	336	304	140	80	55
1997	35	211	393	467	397	413	386	348	227	92	59	35
1998	22	109	222	279	409	432	438	318	346	356	130	77
1999	52	209	314	336	377	394	338	268	275	134	78	53
2000	33	43	222	248	335	372	335	313	313	134	79	55
2001	35	162	246	263	274	282	268	277	212	100	66	43
2002	25	45	188	249	275	276	263	268	199	104	70	47
2003	28	77	219	270	311	294	249	201	259	134	76	52

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Average Simulated 60 Deg F Cold Water Pool Volume-Millerton Lake and Temp Flat Reservoir (TAF)
Alternative4 (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					1340	1501	1495	1418	1349	1455	1325	1025
1981	787	966	1280	1261	1232	1213	1081	976	855	647	482	390
1982	304	407	837	924	1000	1109	1171	1302	1437	1453	1296	1006
1983	815	1271	1701	1702	1697	1710	1699	1580	1695	1626	1479	1207
1984	955	1078	1705	1700	1705	1650	1528	1365	1332	1138	846	676
1985	506	684	1044	1046	1016	990	923	901	806	623	470	353
1986	282	497	795	855	978	1253	1322	1357	1501	1444	1168	887
1987	677	748	1130	1106	1063	1037	917	903	808	623	480	368
1988	306	325	714	748	771	735	686	680	611	492	356	299
1989	259	267	650	683	693	698	677	681	585	480	353	297
1990	257	303	700	711	724	696	656	649	538	431	333	296
1991	267	362	659	661	654	658	613	512	504	439	307	266
1992	228	227	692	709	729	720	668	686	561	444	338	291
1993	254	253	681	778	902	914	905	814	927	934	690	474
1994	350	434	861	866	868	852	771	743	698	548	424	326
1995	272	528	761	867	1018	1123	1162	1182	1346	1544	1330	1014
1996	790	695	1221	1466	1512	1534	1402	1403	1406	1261	920	725
1997	546	591	1218	1593	1652	1601	1475	1453	1366	1155	855	714
1998	550	553	1006	1030	1141	1163	1180	1076	1155	1414	1201	941
1999	738	1074	1467	1477	1505	1482	1338	1095	1082	869	645	454
2000	343	320	690	833	902	896	814	792	866	679	481	400
2001	320	520	827	835	840	819	742	747	707	537	414	311
2002	256	226	692	796	819	805	724	700	660	534	427	329
2003	268	227	646	816	856	796	687	622	693	550	425	317

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Change in Average Simulated 60 Deg F Cold Water Pool Volume-Millerton Lake and Temp Flat Reservoir (TAF)
Alternative4 (2030) - No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					920	1057	1025	969	1019	1125	1193	941
1981	725	786	907	869	812	769	676	600	641	548	414	344
1982	275	239	591	583	615	675	721	847	1018	1164	1179	923
1983	713	956	1264	1266	1273	1278	1385	1442	1291	1192	1278	1106
1984	881	933	1266	1266	1265	1208	1125	1070	1091	1026	774	626
1985	467	463	749	715	664	625	571	537	577	517	400	301
1986	246	365	565	561	619	829	897	975	1079	1205	1064	815
1987	623	579	817	776	720	672	587	563	581	514	407	317
1988	274	247	564	562	558	527	475	461	450	394	289	253
1989	232	196	499	517	516	503	449	423	423	383	285	251
1990	227	181	518	517	517	498	451	436	411	345	269	254
1991	242	254	516	515	513	507	462	370	350	328	238	220
1992	198	136	508	508	505	475	425	413	401	354	276	251
1993	230	182	510	511	514	483	518	536	593	663	575	399
1994	296	282	568	552	540	503	450	437	471	435	349	274
1995	237	327	510	516	580	683	794	919	1005	1143	1174	929
1996	729	660	979	1182	1155	1109	1038	1068	1102	1122	840	670
1997	510	381	826	1126	1255	1188	1089	1105	1139	1062	795	679
1998	528	444	783	751	732	731	742	759	808	1058	1072	864
1999	686	866	1153	1142	1128	1088	1000	826	806	735	568	401
2000	310	278	467	584	567	525	479	479	553	546	402	346
2001	285	358	581	572	566	537	474	470	494	438	348	269
2002	231	181	504	547	544	529	461	433	461	430	357	282
2003	241	151	427	546	545	503	438	421	434	416	349	266

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit

Percent Change in Average Simulated 60 Deg F Cold Water Pool Volume-Millerton Lake and Temp Flat Reservoir (TAF)
From No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					218%	238%	218%	216%	309%	341%	900%	1125%
1981	1166%	435%	243%	222%	194%	173%	167%	160%	299%	553%	604%	742%
1982	940%	142%	240%	172%	160%	156%	160%	186%	243%	402%	1007%	1117%
1983	699%	303%	289%	291%	300%	296%	440%	1052%	319%	275%	636%	1097%
1984	1202%	643%	288%	291%	287%	274%	280%	363%	454%	916%	1065%	1245%
1985	1194%	209%	254%	216%	189%	171%	162%	148%	253%	488%	572%	578%
1986	670%	277%	246%	191%	172%	195%	211%	255%	256%	504%	1013%	1121%
1987	1153%	344%	261%	235%	210%	184%	178%	166%	256%	473%	562%	615%
1988	836%	315%	376%	301%	262%	254%	226%	210%	280%	403%	429%	555%
1989	848%	274%	332%	312%	291%	258%	197%	164%	262%	394%	421%	541%
1990	754%	148%	284%	267%	250%	252%	221%	205%	323%	398%	425%	600%
1991	957%	236%	360%	354%	364%	336%	306%	263%	227%	296%	342%	475%
1992	664%	150%	276%	252%	225%	194%	175%	151%	250%	398%	439%	622%
1993	955%	257%	299%	191%	132%	112%	134%	193%	178%	245%	501%	527%
1994	558%	185%	194%	175%	164%	144%	140%	143%	207%	384%	467%	529%
1995	663%	163%	203%	147%	132%	155%	216%	348%	294%	285%	754%	1086%
1996	1203%	1889%	404%	416%	323%	261%	285%	318%	363%	804%	1047%	1220%
1997	1440%	181%	210%	241%	316%	288%	282%	317%	502%	1154%	1337%	1944%
1998	2433%	406%	353%	269%	179%	169%	169%	239%	233%	297%	828%	1127%
1999	1324%	415%	367%	340%	299%	276%	296%	308%	293%	550%	730%	751%
2000	943%	648%	210%	235%	169%	141%	143%	153%	177%	408%	509%	632%
2001	822%	221%	236%	218%	207%	191%	177%	169%	233%	440%	531%	626%
2002	908%	401%	267%	220%	198%	192%	175%	162%	232%	412%	510%	599%
2003	864%	196%	195%	203%	175%	171%	176%	209%	168%	310%	462%	514%

Notes:

Summarized from From W2 reservoir temperature moldel

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, Deg F = Degrees Fahrenheit