SJR5Q 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.

Monthly Averages of Simulated Temperature at Millerton Release (Head of Reach 1) (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 (-4%)	-3 (-4%)	-2 (-4%)	-6 (-11%)	1 (1%)	57	-2 (-4%)	-2 (-4%)	-2 (-4%)	-6 (-11%)	1 (1%)
Nov	58	-2 (-4%)	-2 (-4%)	-3 (-4%)	-7 (-13%)	0 (0%)	58	-2 (-4%)	-2 (-4%)	-2 (-4%)	-7 (-12%)	0 (0%)
Dec	54	2 (3%)	2 (3%)	2 (3%)	-3 (-5%)	1 (2%)	54	2 (4%)	2 (4%)	2 (3%)	-2 (-5%)	1 (2%)
Jan	48	6 (12%)	6 (12%)	6 (12%)	4 (8%)	4 (8%)	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 (12%)	5 (12%)	5 (12%)	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 (2%)	1 (3%)	1 (3%)	49	1 (1%)	1 (1%)	1 (1%)	1 (3%)	1 (3%)
Jun	50	0 (0%)	0 (0%)	0 (0%)	2 (4%)	1 (2%)	50	0 (0%)	0 (0%)	0 (0%)	2 (4%)	1 (2%)
Jul	52	0 (1%)	0 (0%)	0 (0%)	2 (4%)	1 (2%)	51	0 (0%)	0 (0%)	0 (0%)	2 (4%)	1 (2%)
Aug	53	0 (0%)	0 (0%)	0 (0%)	1 (3%)	1 (2%)	53	0 (0%)	0 (0%)	0 (0%)	1 (3%)	1 (2%)
Sep	54	-1 (-2%)	-1 (-1%)	-1 (-1%)	-3 (-6%)	1 (2%)	54	-1 (-1%)	-1 (-1%)	-1 (-1%)	-3 (-6%)	1 (2%)

Notes: SJR5Q Flow Simulations

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second

Monthly Averages of Simulated Temperature at Millerton Release (Head of Reach 1) (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 (-5%)	-3 (-5%)	-3 (-6%)	-7 (-12%)	0 (0%)	57	-3 (-5%)	-3 (-5%)	-3 (-6%)	-7 (-12%)	0 (0%)
Nov	58	-2 (-4%)	-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 (5%)	2 (5%)	2 (4%)	-2 (-4%)	1 (2%)
Jan	46	6 (14%)	6 (14%)	6 (14%)	5 (11%)	5 (10%)	46	7 (14%)	7 (14%)	7 (14%)	5 (11%)	5 (10%)
Feb	45	6 (12%)	5 (12%)	5 (12%)	5 (11%)	4 (8%)	45	5 (12%)	5 (12%)	5 (12%)	5 (11%)	4 (8%)
Mar	45	3 (8%)	3 (8%)	3 (7%)	3 (8%)	2 (5%)	45	3 (8%)	3 (8%)	3 (8%)	4 (8%)	2 (5%)
Apr	46	1 (3%)	1 (3%)	1 (3%)	1 (3%)	1 (2%)	47	1 (2%)	1 (2%)	1 (2%)	1 (3%)	1 (2%)
May	49	0 (-1%)	0 (-1%)	0 (-1%)	0 (1%)	0 (0%)	49	-1 (-1%)	0 (-1%)	-1 (-1%)	1 (1%)	0 (0%)
Jun	51	-1 (-2%)	-1 (-2%)	-1 (-2%)	2 (5%)	0 (-1%)	51	-1 (-2%)	-1 (-2%)	-1 (-2%)	2 (4%)	0 (-1%)
Jul	53	0 (0%)	0 (0%)	-1 (-2%)	3 (5%)	-1 (-2%)	53	-1 (-2%)	-1 (-2%)	-1 (-2%)	2 (5%)	-1 (-2%)
Aug	54	-1 (-1%)	-1 (-1%)	0 (0%)	2 (4%)	0 (-1%)	54	0 (0%)	0 (0%)	0 (0%)	2 (4%)	0 (-1%)
Sep	54	-1 (-1%)	0 (-1%)	0 (0%)	-5 (-8%)	0 (0%)	54	0 (0%)	0 (0%)	0 (0%)	-4 (-8%)	0 (0%)

Notes: SJR5Q Flow Simulations

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second

Monthly Averages of Simulated Temperature at Millerton Release (Head of Reach 1) (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	56	-1 (-2%)	-1 (-2%)	-1 (-2%)	-5 (-9%)	0 (0%)	56	-1 (-2%)	-1 (-2%)	-1 (-2%)	-5 (-9%)	0 (0%)
Nov	58	-3 (-4%)	-3 (-4%)	-2 (-4%)	-7 (-12%)	-1 (-3%)	58	-2 (-4%)	-2 (-4%)	-2 (-4%)	-7 (-12%)	-1 (-3%)
Dec	55	1 (1%)	1 (1%)	1 (1%)	-4 (-7%)	1 (1%)	55	1 (2%)	1 (2%)	1 (2%)	-4 (-6%)	1 (1%)
Jan	48	6 (12%)	6 (12%)	6 (12%)	4 (7%)	5 (10%)	48	6 (13%)	6 (13%)	6 (13%)	4 (9%)	5 (11%)
Feb	46	6 (14%)	6 (14%)	6 (14%)	6 (13%)	6 (13%)	46	7 (14%)	7 (14%)	7 (14%)	6 (14%)	6 (13%)
Mar	46	5 (11%)	5 (11%)	5 (11%)	5 (11%)	5 (10%)	46	5 (11%)	5 (11%)	5 (11%)	5 (11%)	5 (10%)
Apr	47	3 (7%)	3 (7%)	3 (6%)	3 (6%)	3 (7%)	48	3 (6%)	3 (6%)	3 (6%)	3 (6%)	3 (7%)
May	49	2 (3%)	2 (3%)	2 (3%)	2 (3%)	2 (4%)	50	1 (2%)	1 (2%)	1 (2%)	1 (2%)	2 (4%)
Jun	50	1 (2%)	1 (2%)	1 (2%)	3 (5%)	2 (4%)	51	1 (1%)	1 (1%)	1 (2%)	2 (4%)	2 (4%)
Jul	52	1 (2%)	1 (2%)	1 (2%)	3 (6%)	2 (3%)	52	1 (1%)	1 (1%)	1 (2%)	3 (6%)	2 (3%)
Aug	53	1 (1%)	1 (1%)	1 (2%)	3 (5%)	2 (4%)	53	1 (2%)	1 (2%)	1 (2%)	2 (5%)	2 (4%)
Sep	54	1 (1%)	1 (1%)	1 (2%)	-2 (-4%)	2 (3%)	54	0 (1%)	0 (1%)	1 (1%)	-2 (-4%)	2 (3%)

Notes: SJR5Q Flow Simulations

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second

Monthly Averages of Simulated Temperature at Millerton Release (Head of Reach 1) (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 (-5%)	-3 (-5%)	-3 (-5%)	-6 (-11%)	1 (1%)
Nov	58	-3 (-5%)	-3 (-4%)	-3 (-5%)	-7 (-12%)	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 (4%)	2 (4%)	2 (4%)	-2 (-4%)	1 (2%)
Jan	48	5 (11%)	5 (11%)	5 (11%)	4 (7%)	3 (7%)	48	5 (11%)	5 (11%)	5 (11%)	4 (9%)	3 (7%)
Feb	47	5 (10%)	5 (10%)	5 (10%)	5 (10%)	4 (8%)	46	5 (11%)	5 (11%)	5 (11%)	5 (10%)	4 (8%)
Mar	46	4 (9%)	4 (9%)	4 (9%)	4 (10%)	4 (8%)	46	4 (9%)	4 (9%)	4 (9%)	5 (10%)	4 (9%)
Apr	47	3 (6%)	3 (6%)	2 (5%)	3 (6%)	3 (7%)	47	3 (6%)	3 (6%)	3 (6%)	3 (6%)	3 (7%)
May	49	1 (2%)	1 (2%)	1 (2%)	1 (3%)	2 (5%)	49	1 (2%)	1 (3%)	1 (2%)	1 (3%)	2 (5%)
Jun	50	1 (1%)	0 (1%)	0 (1%)	1 (2%)	2 (4%)	50	1 (1%)	1 (1%)	1 (1%)	1 (2%)	2 (4%)
Jul	51	0 (0%)	0 (0%)	0 (0%)	1 (2%)	2 (4%)	51	0 (1%)	0 (1%)	0 (1%)	1 (2%)	2 (4%)
Aug	52	0 (-1%)	0 (-1%)	0 (-1%)	1 (1%)	2 (4%)	52	0 (0%)	0 (-1%)	0 (0%)	1 (1%)	2 (4%)
Sep	54	-1 (-2%)	-1 (-2%)	-1 (-3%)	-2 (-5%)	2 (4%)	54	-1 (-2%)	-1 (-3%)	-1 (-3%)	-3 (-5%)	2 (4%)

Notes: SJR5Q Flow Simulations

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second

Monthly Averages of Simulated Temperature at Millerton Release (Head of Reach 1) (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)	Alt5 (Deg. F)	No Action Alt (cfs)	Alt1 (Deg. F)	Alt2 (Deg. F)	Alt3 (Deg. F)	Alt4 (Deg. F)	Alt5 (Deg. F)
Oct	56	-2 (-4%)	-2 (-4%)	-2 (-4%)	-5 (-10%)	2 (3%)	56	-2 (-3%)	-2 (-4%)	-2 (-4%)	-5 (-9%)	2 (3%)
Nov	58	-3 (-4%)	-2 (-4%)	-3 (-4%)	-7 (-12%)	1 (1%)	58	-2 (-4%)	-2 (-4%)	-2 (-4%)	-7 (-12%)	1 (1%)
Dec	54	1 (3%)	2 (3%)	2 (3%)	-3 (-6%)	1 (2%)	54	2 (4%)	2 (4%)	2 (3%)	-2 (-4%)	1 (2%)
Jan	48	5 (10%)	5 (10%)	5 (10%)	3 (6%)	3 (6%)	48	5 (11%)	5 (11%)	5 (10%)	4 (8%)	3 (6%)
Feb	47	5 (10%)	5 (10%)	4 (10%)	4 (9%)	3 (7%)	46	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 (5%)	2 (5%)	2 (5%)	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 (2%)	1 (2%)	1 (2%)	2 (3%)	2 (4%)
Jul	50	1 (1%)	1 (1%)	0 (1%)	1 (2%)	2 (4%)	50	0 (1%)	1 (1%)	0 (1%)	1 (2%)	2 (4%)
Aug	51	0 (-1%)	0 (-1%)	-1 (-1%)	0 (0%)	2 (3%)	51	0 (-1%)	0 (-1%)	0 (-1%)	0 (1%)	2 (3%)
Sep	53	-2 (-4%)	-2 (-4%)	-2 (-4%)	-2 (-5%)	2 (3%)	53	-2 (-4%)	-2 (-4%)	-2 (-4%)	-2 (-4%)	2 (3%)

Notes: SJR5Q Flow Simulations

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second

Monthly Averages of Simulated Temperature at San Joaquin River At Gravelly Ford (Head of Reach 2A) (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	65	-2 (-3%)	-2 (-4%)	-1 (-1%)	-3 (-5%)	0 (0%)	64	0 (-1%)	-1 (-1%)	1 (1%)	-2 (-3%)	0 (0%)
Nov	58	-2 (-3%)	-2 (-3%)	-1 (-3%)	-4 (-7%)	0 (0%)	57	-1 (-1%)	-1 (-1%)	-1 (-1%)	-3 (-6%)	0 (0%)
Dec	50	1 (1%)	1 (2%)	2 (3%)	-2 (-3%)	2 (4%)	51	1 (3%)	1 (3%)	1 (2%)	-1 (-3%)	2 (4%)
Jan	48	2 (5%)	2 (5%)	3 (7%)	1 (3%)	3 (6%)	48	4 (8%)	4 (8%)	3 (7%)	3 (6%)	3 (6%)
Feb	51	3 (6%)	3 (6%)	3 (6%)	3 (5%)	2 (4%)	50	4 (8%)	4 (8%)	4 (8%)	4 (8%)	2 (4%)
Mar	52	3 (6%)	3 (6%)	3 (6%)	3 (6%)	2 (5%)	51	4 (9%)	4 (9%)	4 (8%)	4 (9%)	2 (5%)
Apr	56	2 (3%)	2 (3%)	1 (1%)	2 (3%)	1 (1%)	54	3 (6%)	3 (6%)	3 (6%)	3 (6%)	1 (1%)
May	64	1 (1%)	0 (1%)	0 (0%)	0 (1%)	-1 (-1%)	61	3 (4%)	2 (4%)	2 (4%)	3 (4%)	-1 (-1%)
Jun	69	-1 (-1%)	-1 (-1%)	-1 (-1%)	0 (-1%)	-2 (-3%)	67	2 (3%)	2 (3%)	2 (3%)	2 (3%)	-2 (-3%)
Jul	75	-2 (-3%)	-2 (-3%)	-1 (-2%)	-2 (-3%)	-3 (-4%)	72	1 (2%)	1 (1%)	1 (2%)	1 (2%)	-3 (-4%)
Aug	77	-3 (-4%)	-3 (-4%)	-2 (-2%)	-3 (-4%)	-3 (-4%)	74	0 (0%)	0 (0%)	1 (1%)	0 (0%)	-3 (-4%)
Sep	72	-3 (-4%)	-3 (-4%)	-1 (-1%)	-3 (-4%)	-1 (-1%)	70	0 (-1%)	0 (0%)	1 (2%)	-1 (-1%)	-1 (-1%)

Notes: SJR5Q Flow Simulations

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second

Monthly Averages of Simulated Temperature at San Joaquin River At Gravelly Ford (Head of Reach 2A) (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	65	-2 (-4%)	-3 (-4%)	-1 (-2%)	-4 (-6%)	0 (0%)	63	-1 (-1%)	-1 (-2%)	0 (0%)	-2 (-3%)	0 (0%)
Nov	57	-2 (-3%)	-1 (-3%)	-2 (-3%)	-4 (-8%)	0 (0%)	56	-1 (-1%)	-1 (-1%)	-1 (-2%)	-4 (-6%)	0 (0%)
Dec	50	1 (2%)	1 (3%)	2 (3%)	-1 (-2%)	1 (3%)	51	1 (3%)	2 (3%)	1 (2%)	-1 (-3%)	1 (3%)
Jan	48	3 (6%)	3 (6%)	3 (7%)	2 (4%)	3 (6%)	47	4 (8%)	4 (8%)	4 (8%)	3 (6%)	3 (6%)
Feb	49	4 (9%)	4 (8%)	4 (8%)	4 (8%)	3 (6%)	48	5 (10%)	5 (10%)	5 (10%)	5 (10%)	3 (7%)
Mar	51	4 (8%)	4 (7%)	3 (7%)	4 (7%)	3 (6%)	50	5 (10%)	5 (9%)	5 (9%)	5 (9%)	3 (6%)
Apr	53	2 (4%)	2 (4%)	1 (1%)	2 (4%)	1 (1%)	51	3 (6%)	3 (6%)	3 (6%)	3 (6%)	1 (1%)
May	56	1 (2%)	1 (2%)	0 (1%)	2 (3%)	1 (1%)	55	2 (4%)	2 (4%)	2 (4%)	3 (5%)	1 (1%)
Jun	60	1 (1%)	1 (1%)	0 (0%)	2 (4%)	0 (1%)	58	2 (4%)	2 (4%)	2 (4%)	4 (7%)	0 (1%)
Jul	69	-1 (-2%)	-1 (-2%)	0 (0%)	-1 (-1%)	0 (0%)	66	1 (2%)	1 (2%)	2 (3%)	2 (3%)	0 (0%)
Aug	76	-5 (-6%)	-4 (-6%)	-2 (-3%)	-4 (-5%)	-3 (-4%)	74	-2 (-3%)	-1 (-2%)	0 (0%)	-1 (-2%)	-3 (-4%)
Sep	72	-4 (-6%)	-4 (-5%)	-1 (-1%)	-5 (-6%)	-1 (-2%)	70	-2 (-3%)	-1 (-2%)	1 (2%)	-2 (-3%)	-1 (-2%)

Notes: SJR5Q Flow Simulations

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second

Monthly Averages of Simulated Temperature at San Joaquin River At Gravelly Ford (Head of Reach 2A) (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 (-3%)	-2 (-3%)	0 (-1%)	-4 (-5%)	0 (0%)	63	0 (-1%)	-1 (-1%)	1 (2%)	-2 (-3%)	0 (0%)
Nov	58	-1 (-3%)	-2 (-3%)	-1 (-2%)	-4 (-7%)	-1 (-1%)	57	0 (-1%)	0 (-1%)	0 (0%)	-3 (-5%)	-1 (-1%)
Dec	52	0 (1%)	1 (1%)	1 (2%)	-2 (-3%)	1 (3%)	52	1 (2%)	1 (2%)	1 (1%)	-2 (-4%)	1 (3%)
Jan	49	2 (5%)	2 (5%)	3 (6%)	1 (2%)	3 (6%)	49	4 (8%)	4 (8%)	4 (7%)	2 (5%)	3 (6%)
Feb	52	2 (5%)	2 (4%)	2 (4%)	2 (4%)	2 (4%)	51	4 (8%)	4 (7%)	4 (7%)	3 (7%)	2 (4%)
Mar	53	4 (7%)	4 (7%)	3 (6%)	3 (6%)	3 (6%)	51	5 (9%)	5 (9%)	5 (9%)	5 (9%)	3 (6%)
Apr	55	2 (4%)	2 (4%)	1 (2%)	2 (4%)	1 (2%)	52	4 (7%)	4 (7%)	4 (7%)	4 (7%)	1 (2%)
May	66	0 (1%)	0 (0%)	-2 (-2%)	-1 (-1%)	-2 (-3%)	63	3 (4%)	2 (4%)	2 (3%)	2 (3%)	-2 (-4%)
Jun	74	-3 (-4%)	-4 (-5%)	-3 (-4%)	-4 (-6%)	-4 (-6%)	71	0 (0%)	0 (0%)	0 (0%)	0 (-1%)	-4 (-6%)
Jul	79	-5 (-6%)	-6 (-7%)	-4 (-6%)	-6 (-8%)	-7 (-8%)	76	-1 (-2%)	-1 (-2%)	-1 (-2%)	-2 (-3%)	-7 (-9%)
Aug	77	-4 (-6%)	-4 (-6%)	-3 (-4%)	-5 (-6%)	-5 (-6%)	75	-2 (-2%)	-1 (-1%)	-1 (-1%)	-2 (-2%)	-5 (-6%)
Sep	73	-4 (-5%)	-4 (-5%)	-1 (-1%)	-4 (-6%)	-1 (-2%)	71	-1 (-2%)	-1 (-1%)	1 (2%)	-2 (-2%)	-1 (-2%)

Notes: SJR5Q Flow Simulations

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second

Monthly Averages of Simulated Temperature at San Joaquin River At Gravelly Ford (Head of Reach 2A) (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 (-3%)	-2 (-4%)	-1 (-2%)	-3 (-5%)	0 (0%)	64	0 (-1%)	-1 (-1%)	0 (0%)	-2 (-3%)	0 (0%)
Nov	57	-2 (-3%)	-2 (-3%)	-2 (-3%)	-4 (-7%)	0 (0%)	56	-1 (-1%)	-1 (-1%)	-1 (-1%)	-3 (-6%)	0 (0%)
Dec	50	1 (1%)	1 (2%)	2 (4%)	-1 (-3%)	2 (5%)	51	2 (3%)	2 (3%)	1 (2%)	-1 (-2%)	2 (5%)
Jan	47	2 (4%)	2 (4%)	4 (7%)	1 (2%)	3 (6%)	47	4 (8%)	4 (8%)	3 (7%)	3 (5%)	3 (6%)
Feb	52	2 (4%)	2 (4%)	2 (4%)	2 (4%)	2 (3%)	50	4 (7%)	4 (7%)	4 (7%)	4 (7%)	2 (3%)
Mar	53	3 (5%)	3 (5%)	2 (5%)	3 (5%)	2 (4%)	51	4 (8%)	4 (8%)	4 (8%)	4 (8%)	2 (4%)
Apr	57	2 (3%)	2 (3%)	1 (2%)	2 (3%)	1 (2%)	55	3 (6%)	3 (6%)	3 (6%)	4 (7%)	1 (2%)
May	67	0 (1%)	0 (0%)	0 (0%)	0 (0%)	-1 (-1%)	64	3 (5%)	3 (4%)	3 (4%)	3 (4%)	-1 (-1%)
Jun	75	-1 (-1%)	-1 (-2%)	-1 (-1%)	-2 (-2%)	-3 (-4%)	72	2 (3%)	2 (2%)	2 (2%)	1 (2%)	-3 (-4%)
Jul	78	-2 (-2%)	-2 (-3%)	-1 (-2%)	-2 (-3%)	-3 (-4%)	75	2 (2%)	1 (2%)	1 (2%)	1 (2%)	-3 (-5%)
Aug	76	-2 (-2%)	-2 (-2%)	-1 (-1%)	-2 (-2%)	-2 (-3%)	74	1 (2%)	1 (2%)	1 (2%)	1 (2%)	-2 (-3%)
Sep	72	-2 (-2%)	-2 (-2%)	-1 (-1%)	-2 (-2%)	0 (-1%)	70	1 (1%)	1 (1%)	1 (2%)	1 (1%)	0 (-1%)

Notes: SJR5Q Flow Simulations

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second

Monthly Averages of Simulated Temperature at San Joaquin River At Gravelly Ford (Head of Reach 2A) (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)	Alt5 (Deg. F)	No Action Alt (cfs)	Alt1 (Deg. F)	Alt2 (Deg. F)	Alt3 (Deg. F)	Alt4 (Deg. F)	Alt5 (Deg. F)
Oct	66	-2 (-3%)	-2 (-3%)	-1 (-1%)	-3 (-4%)	0 (0%)	64	0 (0%)	0 (0%)	1 (1%)	-1 (-2%)	0 (0%)
Nov	58	-2 (-3%)	-2 (-3%)	-1 (-3%)	-4 (-7%)	1 (1%)	57	0 (-1%)	-1 (-1%)	-1 (-1%)	-3 (-5%)	1 (1%)
Dec	50	1 (1%)	1 (2%)	2 (4%)	-2 (-3%)	2 (5%)	51	1 (3%)	1 (3%)	1 (2%)	-1 (-2%)	2 (4%)
Jan	47	2 (4%)	2 (4%)	4 (8%)	0 (1%)	3 (6%)	47	3 (7%)	3 (7%)	3 (7%)	2 (5%)	3 (6%)
Feb	51	2 (4%)	2 (4%)	2 (4%)	2 (3%)	1 (2%)	50	4 (7%)	4 (7%)	4 (7%)	3 (7%)	1 (2%)
Mar	54	3 (5%)	2 (5%)	2 (4%)	3 (5%)	2 (3%)	52	4 (7%)	4 (7%)	4 (7%)	4 (8%)	2 (3%)
Apr	62	1 (2%)	1 (2%)	0 (0%)	1 (2%)	0 (0%)	60	3 (5%)	3 (5%)	3 (5%)	3 (6%)	0 (-1%)
May	69	0 (1%)	0 (0%)	0 (0%)	0 (1%)	-1 (-1%)	67	3 (4%)	3 (4%)	3 (4%)	3 (5%)	-1 (-1%)
Jun	74	0 (0%)	0 (0%)	0 (0%)	0 (0%)	-2 (-2%)	71	3 (4%)	3 (4%)	3 (4%)	3 (4%)	-2 (-2%)
Jul	78	0 (0%)	0 (0%)	0 (0%)	0 (0%)	-2 (-3%)	75	3 (4%)	3 (4%)	3 (4%)	3 (4%)	-2 (-3%)
Aug	77	-1 (-1%)	0 (-1%)	0 (0%)	0 (0%)	-2 (-2%)	74	3 (3%)	2 (3%)	2 (3%)	3 (4%)	-2 (-2%)
Sep	72	-1 (-1%)	-1 (-1%)	0 (-1%)	0 (-1%)	0 (0%)	70	2 (2%)	2 (2%)	2 (2%)	2 (2%)	0 (0%)

Notes: SJR5Q Flow Simulations

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second

Monthly Averages of Simulated Temperature at San Joaquin River Below Chowchilla Bypass Diversion (Head Reach 2B) (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	68	-2 (-3%)	-2 (-3%)	-1 (-1%)	-2 (-4%)	0 (0%)	65	1 (2%)	1 (1%)	2 (3%)	0 (1%)	0 (0%)
Nov	58	-1 (-2%)	-1 (-2%)	-1 (-2%)	-3 (-5%)	0 (0%)	56	1 (1%)	1 (1%)	1 (1%)	-1 (-2%)	0 (0%)
Dec	50	1 (1%)	1 (1%)	1 (2%)	-1 (-2%)	1 (3%)	50	2 (4%)	2 (4%)	1 (3%)	0 (-1%)	1 (3%)
Jan	48	1 (3%)	1 (3%)	2 (5%)	1 (2%)	2 (4%)	47	4 (8%)	4 (8%)	3 (7%)	3 (6%)	2 (4%)
Feb	53	2 (4%)	2 (4%)	2 (4%)	2 (4%)	2 (3%)	51	4 (8%)	4 (8%)	4 (8%)	4 (8%)	2 (3%)
Mar	55	3 (5%)	3 (5%)	2 (4%)	3 (5%)	2 (4%)	53	5 (9%)	5 (9%)	4 (8%)	5 (9%)	2 (4%)
Apr	60	2 (3%)	2 (3%)	0 (1%)	2 (3%)	0 (0%)	56	4 (7%)	4 (7%)	4 (7%)	4 (7%)	0 (0%)
May	68	1 (1%)	1 (1%)	0 (0%)	0 (1%)	-1 (-1%)	64	4 (6%)	4 (6%)	4 (6%)	4 (6%)	-1 (-1%)
Jun	73	0 (-1%)	-1 (-1%)	0 (-1%)	0 (0%)	-2 (-2%)	69	4 (5%)	3 (5%)	4 (5%)	4 (5%)	-2 (-2%)
Jul	79	-1 (-2%)	-2 (-2%)	-1 (-1%)	-2 (-2%)	-2 (-3%)	75	3 (4%)	3 (4%)	4 (5%)	3 (4%)	-2 (-3%)
Aug	81	-2 (-3%)	-2 (-3%)	-1 (-2%)	-2 (-3%)	-3 (-3%)	77	2 (3%)	2 (3%)	3 (4%)	2 (3%)	-3 (-3%)
Sep	76	-2 (-3%)	-2 (-3%)	-1 (-1%)	-2 (-3%)	-1 (-1%)	73	1 (2%)	2 (2%)	3 (4%)	2 (2%)	-1 (-1%)

Notes: SJR5Q Flow Simulations

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second

Monthly Averages of Simulated Temperature at San Joaquin River Below Chowchilla Bypass Diversion (Head Reach 2B) (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	67	-2 (-3%)	-2 (-3%)	-1 (-1%)	-3 (-4%)	0 (0%)	64	1 (1%)	1 (1%)	2 (3%)	0 (0%)	0 (0%)
Nov	57	-1 (-2%)	-1 (-2%)	-1 (-2%)	-3 (-6%)	0 (0%)	56	0 (1%)	0 (1%)	0 (0%)	-2 (-3%)	0 (0%)
Dec	50	1 (1%)	1 (2%)	1 (2%)	-1 (-2%)	1 (2%)	50	2 (3%)	2 (4%)	1 (2%)	0 (-1%)	1 (2%)
Jan	48	2 (4%)	2 (4%)	3 (5%)	1 (3%)	2 (4%)	47	4 (8%)	4 (8%)	4 (7%)	3 (6%)	2 (4%)
Feb	50	4 (8%)	4 (7%)	4 (7%)	4 (7%)	3 (6%)	49	5 (10%)	5 (10%)	5 (10%)	5 (10%)	3 (6%)
Mar	53	4 (7%)	4 (7%)	3 (6%)	4 (7%)	3 (5%)	51	5 (10%)	5 (10%)	5 (10%)	5 (10%)	3 (5%)
Apr	56	3 (5%)	2 (4%)	0 (1%)	3 (5%)	0 (1%)	53	3 (7%)	3 (7%)	3 (7%)	4 (7%)	0 (1%)
May	60	2 (3%)	2 (3%)	1 (1%)	2 (3%)	1 (1%)	57	3 (5%)	3 (5%)	3 (5%)	3 (6%)	1 (1%)
Jun	63	1 (2%)	1 (2%)	0 (1%)	2 (4%)	1 (1%)	61	3 (5%)	3 (5%)	3 (5%)	4 (7%)	1 (1%)
Jul	73	-1 (-1%)	-1 (-1%)	1 (1%)	-1 (-1%)	1 (1%)	69	3 (5%)	3 (5%)	4 (6%)	3 (5%)	1 (1%)
Aug	81	-4 (-5%)	-3 (-4%)	-2 (-2%)	-3 (-4%)	-2 (-3%)	77	0 (1%)	1 (1%)	2 (3%)	1 (1%)	-2 (-3%)
Sep	76	-4 (-5%)	-3 (-4%)	-1 (-1%)	-4 (-5%)	-1 (-1%)	72	0 (0%)	1 (1%)	3 (4%)	0 (0%)	-1 (-1%)

Notes: SJR5Q Flow Simulations

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second

Monthly Averages of Simulated Temperature at San Joaquin River Below Chowchilla Bypass Diversion (Head Reach 2B) (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	68	-2 (-3%)	-2 (-3%)	0 (-1%)	-3 (-4%)	0 (0%)	65	1 (1%)	1 (1%)	3 (4%)	0 (0%)	0 (0%)
Nov	59	-1 (-2%)	-1 (-2%)	-1 (-1%)	-3 (-5%)	0 (-1%)	57	1 (1%)	1 (1%)	1 (2%)	-1 (-2%)	0 (-1%)
Dec	51	0 (1%)	0 (1%)	1 (2%)	-1 (-2%)	1 (2%)	51	2 (3%)	2 (3%)	1 (2%)	-1 (-1%)	1 (2%)
Jan	50	1 (3%)	1 (2%)	2 (4%)	1 (1%)	2 (3%)	49	4 (8%)	4 (7%)	3 (7%)	3 (5%)	2 (3%)
Feb	54	2 (3%)	1 (3%)	1 (3%)	1 (2%)	1 (2%)	52	4 (7%)	4 (7%)	4 (7%)	4 (7%)	1 (2%)
Mar	55	3 (6%)	3 (5%)	3 (5%)	3 (5%)	2 (4%)	53	5 (9%)	5 (9%)	5 (9%)	5 (9%)	2 (5%)
Apr	58	2 (3%)	2 (3%)	0 (0%)	2 (3%)	0 (0%)	54	4 (7%)	4 (7%)	4 (7%)	4 (7%)	0 (0%)
May	70	0 (0%)	0 (0%)	-2 (-3%)	-1 (-1%)	-2 (-3%)	65	4 (6%)	4 (5%)	3 (5%)	3 (5%)	-2 (-4%)
Jun	78	-2 (-3%)	-3 (-4%)	-2 (-3%)	-4 (-5%)	-4 (-5%)	74	3 (4%)	3 (3%)	3 (4%)	2 (2%)	-4 (-5%)
Jul	83	-4 (-4%)	-4 (-5%)	-3 (-4%)	-5 (-6%)	-6 (-7%)	78	1 (2%)	1 (2%)	1 (2%)	0 (0%)	-6 (-7%)
Aug	82	-4 (-4%)	-4 (-5%)	-2 (-3%)	-4 (-5%)	-4 (-5%)	77	1 (1%)	1 (2%)	2 (2%)	1 (1%)	-4 (-5%)
Sep	77	-3 (-4%)	-3 (-5%)	-1 (-1%)	-4 (-5%)	-1 (-2%)	74	0 (1%)	1 (1%)	3 (4%)	1 (1%)	-1 (-2%)

Notes: SJR5Q Flow Simulations

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second

Monthly Averages of Simulated Temperature at San Joaquin River Below Chowchilla Bypass Diversion (Head Reach 2B) (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	68	-2 (-3%)	-2 (-3%)	-1 (-1%)	-2 (-4%)	0 (0%)	65	1 (2%)	1 (2%)	2 (3%)	1 (1%)	0 (0%)
Nov	57	-1 (-2%)	-1 (-2%)	-1 (-2%)	-3 (-5%)	0 (0%)	56	1 (1%)	1 (1%)	1 (1%)	-1 (-2%)	0 (0%)
Dec	49	1 (1%)	1 (2%)	1 (3%)	-1 (-2%)	2 (4%)	49	2 (4%)	2 (4%)	2 (3%)	0 (0%)	2 (4%)
Jan	48	1 (2%)	1 (2%)	2 (5%)	0 (1%)	2 (4%)	47	4 (8%)	4 (8%)	3 (7%)	3 (6%)	2 (4%)
Feb	53	1 (3%)	1 (3%)	1 (3%)	1 (2%)	1 (2%)	51	4 (8%)	4 (8%)	4 (8%)	4 (7%)	1 (2%)
Mar	55	2 (4%)	2 (4%)	2 (3%)	2 (4%)	2 (3%)	53	4 (8%)	4 (8%)	4 (7%)	4 (8%)	2 (3%)
Apr	61	1 (2%)	1 (2%)	1 (1%)	1 (2%)	1 (1%)	58	4 (7%)	4 (7%)	4 (7%)	4 (7%)	1 (1%)
May	71	0 (0%)	0 (0%)	0 (-1%)	0 (0%)	-1 (-1%)	67	4 (7%)	4 (6%)	4 (6%)	4 (6%)	-1 (-1%)
Jun	79	-1 (-1%)	-1 (-2%)	-1 (-1%)	-1 (-2%)	-2 (-3%)	74	4 (5%)	4 (5%)	4 (5%)	4 (5%)	-2 (-3%)
Jul	83	-1 (-1%)	-2 (-2%)	-1 (-1%)	-2 (-2%)	-3 (-4%)	78	4 (5%)	4 (5%)	4 (5%)	3 (4%)	-3 (-4%)
Aug	81	-1 (-1%)	-1 (-2%)	-1 (-1%)	-1 (-2%)	-2 (-3%)	76	3 (5%)	3 (4%)	4 (5%)	3 (4%)	-2 (-3%)
Sep	76	-1 (-2%)	-1 (-2%)	0 (-1%)	-1 (-2%)	-1 (-1%)	72	3 (4%)	3 (4%)	3 (4%)	3 (4%)	-1 (-1%)

Notes: SJR5Q Flow Simulations

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second

Monthly Averages of Simulated Temperature at San Joaquin River Below Chowchilla Bypass Diversion (Head Reach 2B) (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)	Alt5 (Deg. F)	No Action Alt (cfs)	Alt1 (Deg. F)	Alt2 (Deg. F)	Alt3 (Deg. F)	Alt4 (Deg. F)	Alt5 (Deg. F)
Oct	69	-2 (-3%)	-2 (-3%)	0 (-1%)	-2 (-3%)	0 (0%)	66	1 (2%)	1 (2%)	2 (3%)	1 (1%)	0 (0%)
Nov	58	-1 (-2%)	-1 (-2%)	-1 (-2%)	-3 (-5%)	0 (1%)	56	1 (1%)	1 (1%)	1 (1%)	-1 (-2%)	0 (1%)
Dec	49	0 (1%)	1 (1%)	1 (3%)	-1 (-2%)	2 (4%)	49	2 (4%)	2 (4%)	2 (3%)	0 (0%)	2 (4%)
Jan	47	1 (2%)	1 (2%)	2 (5%)	0 (0%)	2 (4%)	47	3 (7%)	3 (7%)	3 (7%)	2 (5%)	2 (4%)
Feb	53	1 (2%)	1 (2%)	1 (2%)	1 (2%)	1 (1%)	51	4 (8%)	4 (8%)	4 (7%)	4 (7%)	1 (1%)
Mar	57	2 (3%)	2 (3%)	2 (3%)	2 (3%)	1 (2%)	54	4 (8%)	4 (8%)	4 (8%)	4 (8%)	1 (2%)
Apr	67	1 (1%)	1 (1%)	0 (0%)	1 (1%)	-1 (-1%)	62	4 (7%)	4 (7%)	4 (7%)	4 (7%)	-1 (-1%)
May	74	0 (0%)	0 (0%)	0 (0%)	0 (0%)	-1 (-1%)	69	5 (7%)	5 (7%)	5 (7%)	5 (7%)	-1 (-1%)
Jun	78	0 (0%)	0 (0%)	0 (0%)	0 (0%)	-2 (-2%)	73	5 (7%)	5 (7%)	5 (7%)	5 (7%)	-2 (-2%)
Jul	82	0 (0%)	0 (0%)	0 (0%)	0 (0%)	-2 (-3%)	77	5 (6%)	5 (6%)	5 (6%)	5 (6%)	-2 (-3%)
Aug	81	0 (0%)	0 (0%)	0 (0%)	0 (0%)	-2 (-2%)	77	4 (6%)	4 (6%)	4 (6%)	4 (6%)	-2 (-2%)
Sep	76	-1 (-1%)	0 (-1%)	0 (0%)	0 (0%)	-1 (-1%)	72	4 (5%)	3 (5%)	4 (5%)	4 (5%)	-1 (-1%)

Notes: SJR5Q Flow Simulations

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second

Monthly Averages of Simulated Temperature at San Joaquin River Below Mendota Pool (Head of Reach 3) (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	65	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	65	1 (1%)	1 (1%)	1 (1%)	1 (1%)	0 (0%)
Nov	56	0 (0%)	0 (0%)	0 (0%)	-1 (-1%)	0 (0%)	56	0 (1%)	0 (1%)	0 (1%)	0 (0%)	0 (0%)
Dec	47	1 (3%)	1 (3%)	2 (5%)	0 (1%)	2 (5%)	49	1 (2%)	1 (2%)	1 (1%)	0 (0%)	2 (5%)
Jan	47	2 (3%)	1 (3%)	3 (6%)	1 (2%)	3 (5%)	48	2 (3%)	2 (3%)	1 (3%)	1 (2%)	3 (5%)
Feb	53	1 (2%)	1 (2%)	1 (2%)	1 (1%)	1 (1%)	53	2 (4%)	2 (4%)	2 (4%)	2 (3%)	1 (1%)
Mar	58	1 (2%)	1 (2%)	1 (2%)	1 (2%)	1 (1%)	57	2 (3%)	2 (3%)	2 (3%)	2 (3%)	1 (1%)
Apr	63	1 (1%)	1 (1%)	0 (0%)	1 (1%)	0 (0%)	61	2 (3%)	2 (3%)	2 (3%)	2 (3%)	0 (0%)
May	65	0 (1%)	0 (1%)	0 (0%)	1 (1%)	0 (0%)	64	1 (2%)	1 (2%)	1 (2%)	2 (2%)	0 (0%)
Jun	72	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	71	1 (2%)	1 (2%)	1 (2%)	2 (2%)	0 (0%)
Jul	78	-1 (-1%)	-1 (-1%)	0 (0%)	-1 (-1%)	0 (-1%)	77	1 (1%)	1 (1%)	1 (1%)	1 (1%)	0 (-1%)
Aug	79	-1 (-1%)	-1 (-1%)	-1 (-1%)	-1 (-2%)	-1 (-2%)	78	0 (0%)	0 (0%)	0 (0%)	0 (0%)	-1 (-2%)
Sep	74	0 (-1%)	0 (-1%)	0 (0%)	0 (-1%)	0 (-1%)	73	1 (1%)	0 (1%)	1 (1%)	0 (1%)	0 (-1%)

Notes: SJR5Q Flow Simulations

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second

Monthly Averages of Simulated Temperature at San Joaquin River Below Mendota Pool (Head of Reach 3) (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	65	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	64	1 (1%)	1 (1%)	1 (1%)	1 (1%)	0 (0%)
Nov	56	0 (0%)	0 (0%)	0 (-1%)	-1 (-1%)	0 (0%)	55	0 (0%)	0 (0%)	0 (0%)	0 (-1%)	0 (0%)
Dec	47	1 (3%)	2 (4%)	2 (5%)	1 (1%)	2 (5%)	49	1 (2%)	1 (3%)	1 (1%)	0 (0%)	2 (5%)
Jan	48	2 (3%)	2 (3%)	2 (5%)	1 (3%)	2 (4%)	49	2 (4%)	2 (4%)	2 (3%)	1 (3%)	2 (4%)
Feb	52	2 (3%)	2 (3%)	2 (3%)	1 (3%)	1 (2%)	52	2 (4%)	2 (4%)	2 (4%)	2 (4%)	1 (2%)
Mar	57	2 (3%)	2 (3%)	2 (3%)	2 (3%)	1 (2%)	56	2 (4%)	2 (4%)	2 (4%)	2 (4%)	1 (2%)
Apr	60	2 (3%)	2 (3%)	0 (1%)	2 (3%)	0 (0%)	58	2 (4%)	2 (4%)	2 (4%)	2 (4%)	0 (0%)
May	64	1 (2%)	1 (2%)	0 (1%)	1 (2%)	0 (1%)	62	2 (3%)	2 (3%)	2 (3%)	2 (3%)	0 (1%)
Jun	69	0 (0%)	0 (0%)	0 (0%)	1 (1%)	0 (0%)	68	2 (3%)	2 (3%)	2 (3%)	2 (3%)	0 (0%)
Jul	76	0 (0%)	0 (0%)	1 (1%)	0 (0%)	1 (1%)	75	2 (2%)	2 (2%)	2 (2%)	1 (2%)	1 (1%)
Aug	79	-2 (-2%)	-2 (-2%)	-1 (-1%)	-2 (-2%)	-1 (-1%)	78	-1 (-1%)	-1 (-1%)	0 (0%)	-1 (-1%)	-1 (-1%)
Sep	73	-1 (-1%)	-1 (-1%)	0 (-1%)	-1 (-1%)	0 (-1%)	72	0 (0%)	0 (0%)	0 (1%)	0 (0%)	0 (-1%)

Notes: SJR5Q Flow Simulations

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second

Monthly Averages of Simulated Temperature at San Joaquin River Below Mendota Pool (Head of Reach 3) (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	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	64	1 (1%)	1 (1%)	1 (1%)	1 (1%)	0 (0%)
Nov	57	0 (0%)	0 (0%)	0 (0%)	-1 (-1%)	0 (0%)	57	0 (1%)	0 (1%)	0 (1%)	0 (0%)	0 (0%)
Dec	50	1 (1%)	1 (1%)	1 (2%)	0 (0%)	1 (2%)	50	1 (2%)	1 (2%)	0 (1%)	0 (-1%)	1 (2%)
Jan	49	1 (2%)	1 (2%)	2 (4%)	1 (1%)	2 (3%)	50	1 (3%)	1 (2%)	1 (2%)	1 (1%)	2 (3%)
Feb	55	1 (1%)	1 (1%)	1 (1%)	0 (1%)	1 (1%)	54	2 (3%)	2 (3%)	2 (3%)	1 (3%)	1 (1%)
Mar	59	1 (1%)	1 (1%)	1 (1%)	1 (1%)	0 (1%)	58	2 (3%)	2 (3%)	2 (3%)	2 (3%)	0 (1%)
Apr	63	1 (1%)	1 (1%)	0 (0%)	1 (1%)	0 (0%)	61	2 (3%)	2 (3%)	2 (3%)	2 (3%)	0 (0%)
May	66	0 (0%)	0 (0%)	0 (0%)	0 (1%)	0 (0%)	65	1 (2%)	1 (2%)	1 (2%)	1 (2%)	0 (0%)
Jun	73	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	72	1 (2%)	1 (2%)	2 (2%)	2 (2%)	0 (0%)
Jul	80	-2 (-3%)	-2 (-3%)	-2 (-3%)	-2 (-3%)	-2 (-3%)	79	-1 (-1%)	-1 (-1%)	-1 (-1%)	-1 (-1%)	-2 (-3%)
Aug	79	-2 (-3%)	-2 (-3%)	-2 (-3%)	-2 (-3%)	-2 (-3%)	78	-1 (-1%)	-1 (-1%)	-1 (-1%)	-1 (-1%)	-2 (-3%)
Sep	74	-1 (-1%)	-1 (-1%)	-1 (-1%)	-1 (-1%)	-1 (-1%)	73	0 (0%)	0 (0%)	0 (0%)	0 (0%)	-1 (-1%)

Notes: SJR5Q Flow Simulations

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second

Monthly Averages of Simulated Temperature at San Joaquin River Below Mendota Pool (Head of Reach 3) (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	66	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	65	1 (1%)	1 (1%)	1 (1%)	0 (1%)	0 (0%)
Nov	56	0 (0%)	0 (0%)	0 (0%)	-1 (-1%)	0 (0%)	55	0 (1%)	1 (1%)	0 (1%)	0 (0%)	0 (0%)
Dec	47	1 (3%)	2 (3%)	3 (6%)	1 (1%)	3 (6%)	49	1 (2%)	1 (2%)	1 (1%)	0 (0%)	3 (6%)
Jan	46	2 (3%)	2 (4%)	3 (7%)	1 (3%)	3 (7%)	48	2 (4%)	2 (4%)	2 (3%)	1 (3%)	3 (7%)
Feb	53	1 (1%)	1 (1%)	1 (1%)	0 (1%)	1 (1%)	52	2 (3%)	2 (3%)	2 (3%)	2 (3%)	1 (1%)
Mar	57	1 (1%)	1 (1%)	1 (1%)	1 (1%)	1 (1%)	56	2 (3%)	2 (3%)	2 (3%)	2 (3%)	1 (1%)
Apr	63	1 (1%)	0 (1%)	0 (0%)	1 (1%)	0 (0%)	62	2 (3%)	2 (3%)	2 (3%)	2 (3%)	0 (0%)
May	66	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	64	1 (2%)	1 (2%)	1 (2%)	1 (2%)	0 (0%)
Jun	73	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	72	1 (2%)	1 (2%)	1 (2%)	1 (2%)	0 (0%)
Jul	79	0 (0%)	0 (0%)	0 (0%)	0 (0%)	-1 (-1%)	78	1 (1%)	1 (1%)	1 (1%)	1 (1%)	-1 (-1%)
Aug	77	-1 (-1%)	0 (-1%)	0 (0%)	-1 (-1%)	-1 (-1%)	77	1 (1%)	1 (1%)	1 (1%)	1 (1%)	-1 (-1%)
Sep	74	0 (-1%)	0 (0%)	0 (0%)	0 (0%)	0 (-1%)	73	1 (1%)	1 (1%)	1 (1%)	1 (1%)	0 (-1%)

Notes: SJR5Q Flow Simulations

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second

Monthly Averages of Simulated Temperature at San Joaquin River Below Mendota Pool (Head of Reach 3) (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)	Alt5 (Deg. F)	No Action Alt (cfs)	Alt1 (Deg. F)	Alt2 (Deg. F)	Alt3 (Deg. F)	Alt4 (Deg. F)	Alt5 (Deg. F)
Oct	66	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	66	1 (1%)	1 (1%)	1 (1%)	1 (1%)	0 (0%)
Nov	56	0 (0%)	0 (0%)	0 (0%)	-1 (-1%)	0 (0%)	56	0 (1%)	0 (1%)	0 (1%)	0 (0%)	0 (0%)
Dec	47	2 (3%)	2 (4%)	3 (6%)	1 (1%)	3 (7%)	49	1 (2%)	1 (2%)	1 (1%)	0 (0%)	3 (7%)
Jan	45	2 (4%)	2 (4%)	4 (8%)	1 (3%)	3 (8%)	48	2 (3%)	2 (3%)	1 (3%)	1 (2%)	3 (7%)
Feb	54	0 (1%)	0 (1%)	0 (1%)	0 (1%)	0 (0%)	53	2 (3%)	2 (3%)	2 (3%)	2 (3%)	0 (0%)
Mar	59	1 (1%)	1 (1%)	1 (1%)	1 (1%)	0 (1%)	58	2 (3%)	2 (3%)	2 (3%)	2 (3%)	0 (1%)
Apr	66	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	65	1 (2%)	1 (2%)	1 (2%)	1 (2%)	0 (0%)
May	67	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	66	1 (2%)	1 (2%)	1 (2%)	1 (2%)	0 (0%)
Jun	73	0 (0%)	0 (0%)	1 (1%)	0 (0%)	1 (1%)	72	1 (2%)	1 (2%)	1 (2%)	1 (2%)	1 (1%)
Jul	79	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (-1%)	78	1 (1%)	1 (1%)	1 (1%)	1 (1%)	0 (-1%)
Aug	79	0 (0%)	0 (0%)	0 (0%)	0 (0%)	-1 (-1%)	78	1 (1%)	1 (1%)	1 (1%)	1 (1%)	-1 (-1%)
Sep	74	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	73	1 (1%)	1 (1%)	1 (1%)	1 (1%)	0 (0%)

Notes: SJR5Q Flow Simulations

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second

Monthly Averages of Simulated Temperature at San Joaquin River Below Sack Dam (Head of Reach 4A) (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	68	0 (0%)	-1 (-1%)	0 (0%)	-1 (-1%)	0 (0%)	67	1 (2%)	1 (2%)	1 (2%)	1 (1%)	0 (0%)
Nov	58	0 (-1%)	-1 (-1%)	0 (-1%)	-1 (-2%)	0 (0%)	57	1 (1%)	1 (1%)	1 (1%)	0 (0%)	0 (0%)
Dec	48	1 (2%)	1 (2%)	1 (3%)	0 (0%)	2 (4%)	49	1 (3%)	1 (3%)	1 (2%)	0 (0%)	2 (3%)
Jan	48	1 (3%)	1 (3%)	2 (4%)	1 (2%)	2 (4%)	48	2 (4%)	2 (4%)	2 (4%)	2 (3%)	2 (4%)
Feb	54	1 (2%)	1 (2%)	1 (2%)	1 (2%)	1 (2%)	53	2 (5%)	2 (5%)	2 (5%)	2 (4%)	1 (2%)
Mar	58	2 (3%)	2 (3%)	1 (3%)	2 (3%)	1 (2%)	57	3 (5%)	3 (5%)	3 (5%)	3 (5%)	1 (2%)
Apr	64	1 (2%)	1 (2%)	0 (0%)	1 (2%)	0 (0%)	61	3 (4%)	2 (4%)	2 (4%)	3 (4%)	0 (0%)
May	70	1 (1%)	0 (1%)	0 (0%)	0 (1%)	0 (0%)	68	2 (3%)	2 (3%)	2 (3%)	2 (3%)	0 (0%)
Jun	75	0 (1%)	0 (1%)	0 (0%)	1 (1%)	0 (0%)	73	2 (3%)	2 (3%)	2 (3%)	3 (3%)	0 (0%)
Jul	80	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	78	2 (3%)	2 (3%)	2 (3%)	2 (3%)	0 (0%)
Aug	81	-1 (-1%)	-1 (-1%)	0 (-1%)	-1 (-1%)	-1 (-1%)	79	2 (2%)	2 (2%)	2 (2%)	1 (2%)	-1 (-1%)
Sep	75	1 (1%)	0 (1%)	0 (0%)	0 (0%)	0 (0%)	74	3 (4%)	3 (4%)	2 (2%)	2 (2%)	0 (0%)

Notes: SJR5Q Flow Simulations

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second

Monthly Averages of Simulated Temperature at San Joaquin River Below Sack Dam (Head of Reach 4A) (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	67	0 (-1%)	-1 (-1%)	0 (0%)	-1 (-1%)	0 (0%)	66	1 (2%)	1 (1%)	1 (2%)	1 (1%)	0 (0%)
Nov	57	-1 (-1%)	-1 (-1%)	0 (-1%)	-1 (-2%)	0 (0%)	56	0 (1%)	0 (1%)	0 (1%)	0 (-1%)	0 (0%)
Dec	48	1 (2%)	1 (3%)	2 (3%)	0 (0%)	2 (4%)	49	1 (3%)	1 (3%)	1 (2%)	0 (0%)	2 (3%)
Jan	48	2 (3%)	2 (3%)	2 (4%)	1 (2%)	2 (4%)	48	2 (5%)	2 (5%)	2 (4%)	2 (4%)	2 (4%)
Feb	53	2 (4%)	2 (4%)	2 (4%)	2 (4%)	2 (3%)	52	3 (5%)	3 (5%)	3 (5%)	3 (5%)	2 (3%)
Mar	57	2 (4%)	2 (4%)	2 (4%)	2 (4%)	2 (3%)	56	3 (6%)	3 (6%)	3 (6%)	3 (6%)	2 (3%)
Apr	60	2 (3%)	2 (3%)	0 (0%)	2 (3%)	0 (0%)	57	2 (4%)	2 (4%)	2 (4%)	2 (4%)	0 (0%)
May	65	1 (2%)	1 (2%)	0 (0%)	1 (2%)	0 (0%)	63	2 (3%)	2 (3%)	2 (3%)	2 (3%)	0 (0%)
Jun	69	1 (1%)	1 (1%)	0 (1%)	2 (2%)	0 (1%)	67	2 (3%)	2 (3%)	2 (3%)	3 (4%)	0 (1%)
Jul	76	0 (0%)	0 (0%)	1 (1%)	0 (0%)	2 (2%)	75	2 (3%)	2 (3%)	3 (4%)	2 (3%)	2 (2%)
Aug	81	-1 (-1%)	-1 (-1%)	-1 (-1%)	-1 (-1%)	-1 (-1%)	79	1 (2%)	1 (2%)	2 (2%)	1 (1%)	-1 (-1%)
Sep	72	3 (5%)	2 (3%)	0 (0%)	1 (2%)	0 (0%)	70	5 (7%)	5 (7%)	2 (2%)	2 (3%)	0 (0%)

Notes: SJR5Q Flow Simulations

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second

Monthly Averages of Simulated Temperature at San Joaquin River Below Sack Dam (Head of Reach 4A) (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	67	0 (0%)	0 (0%)	0 (0%)	0 (-1%)	0 (0%)	66	2 (3%)	1 (2%)	1 (2%)	1 (2%)	0 (0%)
Nov	59	0 (-1%)	-1 (-1%)	0 (0%)	-1 (-2%)	0 (0%)	58	1 (1%)	0 (1%)	1 (1%)	0 (0%)	0 (0%)
Dec	50	0 (1%)	0 (1%)	1 (2%)	0 (0%)	1 (2%)	50	1 (2%)	1 (3%)	1 (2%)	0 (0%)	1 (2%)
Jan	50	1 (1%)	1 (1%)	1 (2%)	0 (1%)	1 (2%)	49	2 (4%)	2 (4%)	1 (3%)	1 (2%)	1 (2%)
Feb	56	1 (1%)	1 (1%)	1 (1%)	1 (1%)	1 (1%)	54	2 (4%)	2 (4%)	2 (4%)	2 (4%)	1 (1%)
Mar	59	2 (3%)	2 (3%)	2 (3%)	2 (3%)	2 (3%)	58	3 (6%)	3 (6%)	3 (6%)	3 (6%)	2 (3%)
Apr	62	1 (2%)	1 (2%)	0 (-1%)	1 (2%)	0 (-1%)	59	3 (5%)	3 (5%)	3 (5%)	3 (5%)	0 (-1%)
May	72	0 (0%)	0 (0%)	-1 (-1%)	0 (0%)	-1 (-1%)	68	2 (4%)	2 (3%)	2 (3%)	2 (3%)	-1 (-1%)
Jun	77	0 (1%)	1 (1%)	1 (1%)	0 (0%)	1 (1%)	76	3 (3%)	3 (3%)	3 (3%)	2 (3%)	1 (1%)
Jul	83	-1 (-1%)	-1 (-1%)	-1 (-1%)	-1 (-2%)	-1 (-2%)	81	1 (1%)	1 (1%)	1 (2%)	1 (1%)	-1 (-2%)
Aug	81	-1 (-1%)	-1 (-1%)	-1 (-1%)	-1 (-1%)	-1 (-1%)	80	1 (1%)	1 (1%)	1 (1%)	1 (1%)	-1 (-1%)
Sep	77	-1 (-1%)	-1 (-1%)	0 (-1%)	-1 (-1%)	-1 (-1%)	76	1 (1%)	1 (1%)	1 (2%)	1 (1%)	-1 (-1%)

Notes: SJR5Q Flow Simulations

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second

Monthly Averages of Simulated Temperature at San Joaquin River Below Sack Dam (Head of Reach 4A) (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	69	0 (-1%)	-1 (-1%)	0 (0%)	-1 (-1%)	0 (0%)	67	1 (2%)	1 (1%)	1 (2%)	1 (1%)	0 (0%)
Nov	57	0 (-1%)	0 (-1%)	0 (-1%)	-1 (-2%)	0 (0%)	56	1 (1%)	1 (1%)	1 (1%)	0 (0%)	0 (0%)
Dec	47	1 (2%)	1 (3%)	2 (4%)	0 (0%)	2 (5%)	48	1 (3%)	1 (3%)	1 (2%)	0 (0%)	2 (5%)
Jan	46	1 (3%)	1 (3%)	3 (5%)	1 (2%)	2 (5%)	47	2 (5%)	2 (5%)	2 (4%)	2 (3%)	2 (5%)
Feb	55	1 (1%)	1 (1%)	1 (1%)	0 (1%)	0 (1%)	53	2 (4%)	2 (4%)	2 (4%)	2 (4%)	0 (1%)
Mar	59	1 (2%)	1 (2%)	1 (2%)	1 (2%)	1 (1%)	57	3 (5%)	3 (5%)	3 (4%)	3 (5%)	1 (1%)
Apr	65	1 (1%)	1 (1%)	0 (0%)	1 (1%)	0 (0%)	63	3 (4%)	3 (4%)	3 (4%)	3 (4%)	0 (0%)
May	73	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	70	3 (4%)	3 (4%)	3 (4%)	3 (4%)	0 (0%)
Jun	78	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	76	2 (3%)	2 (3%)	2 (3%)	2 (3%)	0 (0%)
Jul	82	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (-1%)	80	2 (3%)	2 (3%)	2 (3%)	2 (3%)	0 (-1%)
Aug	80	0 (0%)	0 (0%)	0 (0%)	0 (0%)	-1 (-1%)	78	2 (2%)	2 (2%)	2 (2%)	2 (2%)	-1 (-1%)
Sep	77	0 (-1%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	75	2 (2%)	2 (2%)	2 (2%)	2 (2%)	0 (0%)

Notes: SJR5Q Flow Simulations

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second

Monthly Averages of Simulated Temperature at San Joaquin River Below Sack Dam (Head of Reach 4A) (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)	Alt5 (Deg. F)		Alt1 (Deg. F)	Alt2 (Deg. F)	Alt3 (Deg. F)	Alt4 (Deg. F)	Alt5 (Deg. F)
Oct	69	0 (-1%)	-1 (-1%)	0 (0%)	-1 (-1%)	0 (0%)	68	1 (2%)	1 (2%)	1 (2%)	1 (1%)	0 (0%)
Nov	58	-1 (-1%)	-1 (-1%)	0 (-1%)	-1 (-2%)	0 (0%)	57	1 (1%)	1 (1%)	1 (1%)	0 (0%)	0 (0%)
Dec	48	1 (2%)	1 (2%)	1 (3%)	0 (0%)	2 (4%)	48	1 (3%)	1 (3%)	1 (2%)	0 (0%)	2 (4%)
Jan	46	1 (2%)	1 (2%)	2 (5%)	1 (1%)	2 (5%)	47	2 (4%)	2 (4%)	2 (4%)	1 (3%)	2 (5%)
Feb	54	1 (1%)	1 (1%)	1 (1%)	0 (1%)	0 (1%)	53	2 (4%)	2 (4%)	2 (4%)	2 (4%)	0 (1%)
Mar	61	1 (2%)	1 (2%)	1 (2%)	1 (2%)	1 (1%)	59	3 (4%)	3 (4%)	3 (4%)	3 (5%)	1 (1%)
Apr	69	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	67	2 (4%)	2 (4%)	2 (4%)	2 (4%)	0 (0%)
May	74	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	71	2 (3%)	2 (3%)	2 (3%)	2 (3%)	0 (0%)
Jun	77	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	75	2 (3%)	2 (3%)	2 (3%)	2 (3%)	0 (0%)
Jul	82	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (-1%)	80	2 (3%)	2 (3%)	2 (3%)	2 (3%)	0 (-1%)
Aug	82	0 (0%)	0 (0%)	0 (0%)	0 (0%)	-1 (-1%)	80	2 (2%)	2 (2%)	2 (2%)	2 (2%)	-1 (-1%)
Sep	77	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	75	2 (2%)	2 (2%)	2 (2%)	2 (2%)	0 (0%)

Notes: SJR5Q Flow Simulations

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second

Monthly Averages of Simulated Temperature at San Joaquin River Below Sand Slough Control Structure (Head of Reach 4B1) (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	69	0 (-1%)	-1 (-1%)	0 (0%)	-1 (-1%)	0 (0%)	68	1 (1%)	1 (1%)	1 (2%)	1 (1%)	0 (0%)
Nov	58	0 (-1%)	0 (-1%)	0 (0%)	-1 (-2%)	0 (0%)	57	0 (1%)	0 (1%)	1 (1%)	0 (0%)	0 (0%)
Dec	49	0 (1%)	1 (1%)	1 (1%)	0 (0%)	1 (2%)	49	1 (2%)	1 (2%)	1 (1%)	0 (0%)	1 (2%)
Jan	48	1 (2%)	1 (2%)	1 (3%)	1 (1%)	1 (3%)	48	2 (4%)	2 (4%)	1 (3%)	1 (3%)	1 (3%)
Feb	54	1 (2%)	1 (2%)	1 (2%)	1 (1%)	1 (1%)	53	2 (4%)	2 (4%)	2 (4%)	2 (4%)	1 (1%)
Mar	59	2 (3%)	1 (2%)	1 (2%)	1 (2%)	1 (2%)	58	3 (4%)	2 (4%)	2 (4%)	2 (4%)	1 (2%)
Apr	65	1 (2%)	1 (2%)	0 (0%)	1 (2%)	0 (0%)	62	2 (4%)	2 (4%)	2 (4%)	2 (4%)	0 (0%)
May	72	0 (1%)	0 (0%)	0 (0%)	0 (0%)	0 (-1%)	70	2 (3%)	2 (3%)	2 (3%)	2 (3%)	0 (-1%)
Jun	77	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	75	2 (3%)	2 (3%)	2 (3%)	2 (3%)	0 (0%)
Jul	82	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	80	2 (2%)	2 (2%)	2 (3%)	2 (2%)	0 (0%)
Aug	83	-1 (-1%)	-1 (-1%)	0 (-1%)	-1 (-1%)	-1 (-1%)	81	1 (1%)	1 (2%)	1 (2%)	1 (1%)	-1 (-1%)
Sep	77	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	76	2 (2%)	2 (3%)	1 (2%)	1 (2%)	0 (0%)

Notes: SJR5Q Flow Simulations

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second

Monthly Averages of Simulated Temperature at San Joaquin River Below Sand Slough Control Structure (Head of Reach 4B1) (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	68	-1 (-1%)	-1 (-1%)	0 (0%)	-1 (-1%)	0 (0%)	67	1 (1%)	1 (1%)	1 (2%)	1 (1%)	0 (0%)
Nov	57	0 (-1%)	0 (-1%)	0 (-1%)	-1 (-2%)	0 (0%)	56	0 (1%)	0 (1%)	0 (1%)	0 (0%)	0 (0%)
Dec	48	0 (1%)	1 (2%)	1 (1%)	0 (0%)	1 (2%)	48	1 (2%)	1 (2%)	1 (1%)	0 (0%)	1 (2%)
Jan	48	1 (3%)	1 (3%)	2 (3%)	1 (2%)	2 (3%)	48	2 (4%)	2 (4%)	2 (4%)	2 (3%)	2 (3%)
Feb	53	2 (3%)	2 (3%)	2 (3%)	2 (3%)	1 (3%)	52	2 (5%)	2 (5%)	2 (5%)	2 (5%)	1 (3%)
Mar	58	2 (4%)	2 (4%)	2 (3%)	2 (4%)	2 (3%)	57	3 (5%)	3 (5%)	3 (5%)	3 (5%)	2 (3%)
Apr	61	2 (3%)	2 (3%)	0 (0%)	2 (3%)	0 (0%)	58	2 (4%)	2 (4%)	2 (4%)	2 (4%)	0 (0%)
May	66	1 (2%)	1 (2%)	0 (0%)	1 (2%)	0 (0%)	65	2 (3%)	2 (3%)	2 (3%)	2 (3%)	0 (0%)
Jun	71	1 (1%)	1 (1%)	0 (1%)	1 (2%)	0 (1%)	69	2 (3%)	2 (3%)	2 (3%)	3 (4%)	0 (1%)
Jul	78	0 (0%)	0 (0%)	1 (1%)	0 (0%)	2 (2%)	76	2 (3%)	2 (3%)	3 (4%)	2 (3%)	2 (2%)
Aug	83	-1 (-1%)	-1 (-1%)	-1 (-1%)	-1 (-1%)	-1 (-1%)	81	1 (1%)	1 (1%)	1 (2%)	1 (1%)	-1 (-1%)
Sep	75	2 (2%)	1 (1%)	0 (0%)	0 (0%)	0 (0%)	73	3 (4%)	3 (5%)	1 (2%)	1 (2%)	0 (0%)

Notes: SJR5Q Flow Simulations

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second

Monthly Averages of Simulated Temperature at San Joaquin River Below Sand Slough Control Structure (Head of Reach 4B1) (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	69	0 (0%)	0 (-1%)	0 (0%)	0 (-1%)	0 (0%)	67	1 (2%)	1 (1%)	1 (2%)	1 (1%)	0 (0%)
Nov	59	0 (-1%)	-1 (-1%)	0 (0%)	-1 (-2%)	0 (0%)	58	0 (1%)	0 (0%)	1 (1%)	0 (0%)	0 (0%)
Dec	50	0 (1%)	0 (1%)	0 (1%)	0 (0%)	1 (1%)	50	1 (2%)	1 (2%)	1 (1%)	0 (0%)	1 (1%)
Jan	50	0 (1%)	0 (1%)	1 (2%)	0 (0%)	1 (2%)	49	2 (3%)	2 (3%)	1 (2%)	1 (2%)	1 (2%)
Feb	56	1 (1%)	0 (1%)	1 (1%)	0 (1%)	0 (1%)	55	2 (3%)	2 (3%)	2 (3%)	2 (3%)	0 (1%)
Mar	60	2 (3%)	2 (3%)	1 (2%)	2 (3%)	1 (2%)	59	3 (5%)	3 (5%)	3 (5%)	3 (4%)	1 (2%)
Apr	64	1 (2%)	1 (2%)	-1 (-1%)	1 (2%)	-1 (-1%)	61	3 (4%)	3 (4%)	2 (4%)	2 (4%)	-1 (-1%)
May	73	0 (0%)	0 (0%)	-1 (-2%)	0 (0%)	-1 (-2%)	71	2 (3%)	2 (3%)	2 (2%)	2 (2%)	-1 (-2%)
Jun	80	0 (0%)	0 (-1%)	0 (0%)	-1 (-1%)	0 (-1%)	78	2 (2%)	2 (2%)	2 (2%)	2 (2%)	0 (-1%)
Jul	84	-1 (-1%)	-1 (-1%)	-1 (-1%)	-1 (-2%)	-1 (-2%)	82	1 (1%)	1 (1%)	1 (1%)	1 (1%)	-1 (-2%)
Aug	83	-1 (-1%)	-1 (-1%)	-1 (-1%)	-1 (-2%)	-1 (-1%)	81	1 (1%)	1 (1%)	1 (1%)	1 (1%)	-1 (-1%)
Sep	79	-1 (-1%)	-1 (-1%)	0 (-1%)	-1 (-1%)	-1 (-1%)	77	1 (1%)	1 (1%)	1 (1%)	1 (1%)	-1 (-1%)

Notes: SJR5Q Flow Simulations

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second

Monthly Averages of Simulated Temperature at San Joaquin River Below Sand Slough Control Structure (Head of Reach 4B1) (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	70	0 (-1%)	-1 (-1%)	0 (0%)	-1 (-1%)	0 (0%)	68	1 (1%)	1 (1%)	1 (2%)	1 (1%)	0 (0%)
Nov	57	0 (-1%)	0 (-1%)	0 (0%)	-1 (-2%)	0 (0%)	56	1 (1%)	1 (1%)	1 (1%)	0 (0%)	0 (0%)
Dec	48	1 (1%)	1 (2%)	1 (2%)	0 (0%)	1 (3%)	48	1 (2%)	1 (3%)	1 (2%)	0 (0%)	1 (3%)
Jan	47	1 (2%)	1 (2%)	2 (4%)	1 (1%)	2 (4%)	47	2 (4%)	2 (4%)	1 (3%)	1 (3%)	2 (4%)
Feb	55	0 (1%)	0 (1%)	1 (1%)	0 (0%)	0 (1%)	54	2 (3%)	2 (3%)	2 (3%)	2 (3%)	0 (1%)
Mar	60	1 (1%)	1 (1%)	1 (1%)	1 (1%)	1 (1%)	58	2 (4%)	2 (4%)	2 (4%)	2 (4%)	1 (1%)
Apr	67	1 (1%)	1 (1%)	0 (0%)	1 (1%)	0 (0%)	65	2 (3%)	2 (3%)	2 (3%)	2 (3%)	0 (0%)
May	75	0 (0%)	0 (0%)	0 (0%)	0 (0%)	-1 (-1%)	73	2 (3%)	2 (3%)	2 (3%)	2 (3%)	-1 (-1%)
Jun	81	0 (0%)	0 (0%)	0 (0%)	0 (0%)	-1 (-1%)	78	2 (3%)	2 (3%)	2 (3%)	2 (3%)	-1 (-1%)
Jul	84	0 (0%)	0 (0%)	0 (0%)	0 (-1%)	-1 (-1%)	82	2 (2%)	2 (2%)	2 (2%)	2 (2%)	-1 (-1%)
Aug	82	0 (0%)	0 (-1%)	0 (0%)	-1 (-1%)	-1 (-1%)	80	2 (2%)	2 (2%)	2 (2%)	2 (2%)	-1 (-1%)
Sep	78	0 (-1%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	77	1 (2%)	1 (2%)	1 (2%)	1 (2%)	0 (0%)

Notes: SJR5Q Flow Simulations

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second

Monthly Averages of Simulated Temperature at San Joaquin River Below Sand Slough Control Structure (Head of Reach 4B1) (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)	Alt5 (Deg. F)	No Action Alt (cfs)	Alt1 (Deg. F)	Alt2 (Deg. F)	Alt3 (Deg. F)	Alt4 (Deg. F)	Alt5 (Deg. F)
Oct	70	-1 (-1%)	-1 (-1%)	0 (0%)	0 (-1%)	0 (0%)	69	1 (1%)	1 (1%)	1 (2%)	1 (1%)	0 (0%)
Nov	58	0 (-1%)	-1 (-1%)	0 (0%)	-1 (-2%)	0 (0%)	57	1 (1%)	1 (1%)	1 (1%)	0 (0%)	0 (0%)
Dec	48	0 (1%)	0 (1%)	1 (1%)	0 (0%)	1 (2%)	48	1 (2%)	1 (2%)	1 (1%)	0 (0%)	1 (2%)
Jan	46	1 (1%)	1 (1%)	2 (3%)	0 (1%)	2 (3%)	47	2 (4%)	2 (4%)	1 (3%)	1 (2%)	2 (3%)
Feb	55	0 (1%)	0 (1%)	1 (1%)	0 (0%)	0 (1%)	53	2 (3%)	2 (3%)	2 (3%)	2 (3%)	0 (1%)
Mar	62	1 (1%)	1 (1%)	1 (1%)	1 (1%)	0 (1%)	60	2 (3%)	2 (3%)	2 (3%)	2 (4%)	0 (1%)
Apr	70	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	68	2 (3%)	2 (3%)	2 (3%)	2 (3%)	0 (0%)
May	76	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	74	2 (3%)	2 (3%)	2 (3%)	2 (3%)	0 (-1%)
Jun	80	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	77	2 (3%)	2 (3%)	2 (3%)	2 (3%)	0 (0%)
Jul	84	0 (0%)	0 (0%)	0 (0%)	0 (0%)	-1 (-1%)	82	2 (2%)	2 (2%)	2 (2%)	2 (2%)	-1 (-1%)
Aug	83	0 (0%)	0 (0%)	0 (0%)	0 (0%)	-1 (-1%)	81	2 (2%)	2 (2%)	2 (2%)	2 (2%)	-1 (-1%)
Sep	78	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	77	2 (2%)	2 (2%)	2 (2%)	2 (2%)	0 (0%)

Notes: SJR5Q Flow Simulations

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second

Monthly Averages of Simulated Temperature at San Joaquin River Below Mariposa Bypass Return (Head of Reach 4B2) (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	70	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	68	2 (3%)	2 (3%)	2 (3%)	2 (3%)	0 (0%)
Nov	58	0 (0%)	0 (0%)	0 (0%)	-1 (-1%)	0 (0%)	56	1 (3%)	1 (3%)	2 (3%)	1 (2%)	0 (0%)
Dec	48	0 (1%)	0 (1%)	1 (1%)	0 (0%)	1 (2%)	47	2 (3%)	2 (4%)	1 (3%)	1 (2%)	1 (2%)
Jan	48	0 (1%)	0 (1%)	1 (2%)	0 (1%)	1 (2%)	47	2 (4%)	2 (4%)	2 (4%)	2 (4%)	1 (2%)
Feb	55	0 (1%)	0 (1%)	0 (1%)	0 (1%)	0 (1%)	53	3 (5%)	3 (5%)	3 (5%)	3 (5%)	0 (1%)
Mar	62	1 (1%)	1 (1%)	1 (1%)	1 (1%)	1 (1%)	60	3 (6%)	3 (6%)	3 (6%)	3 (6%)	1 (1%)
Apr	68	0 (1%)	0 (1%)	0 (0%)	0 (1%)	0 (0%)	65	4 (5%)	4 (5%)	4 (5%)	4 (6%)	0 (0%)
May	75	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	71	4 (5%)	4 (5%)	4 (5%)	4 (5%)	0 (0%)
Jun	80	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	76	4 (5%)	4 (5%)	4 (5%)	4 (5%)	0 (0%)
Jul	84	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	80	4 (4%)	4 (4%)	4 (4%)	4 (4%)	0 (0%)
Aug	83	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	80	3 (4%)	3 (4%)	3 (4%)	3 (4%)	0 (0%)
Sep	79	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	76	3 (4%)	3 (4%)	3 (4%)	3 (3%)	0 (0%)

Notes: SJR5Q Flow Simulations

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second

Monthly Averages of Simulated Temperature at San Joaquin River Below Mariposa Bypass Return (Head of Reach 4B2) (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	69	0 (0%)	0 (-1%)	0 (0%)	0 (0%)	0 (0%)	67	2 (3%)	2 (3%)	2 (3%)	2 (3%)	0 (0%)
Nov	57	0 (0%)	0 (0%)	0 (0%)	-1 (-1%)	0 (0%)	55	1 (2%)	1 (2%)	1 (3%)	1 (2%)	0 (0%)
Dec	48	0 (1%)	1 (1%)	0 (1%)	0 (0%)	1 (1%)	47	2 (3%)	2 (3%)	1 (3%)	1 (2%)	1 (1%)
Jan	48	1 (1%)	1 (1%)	1 (1%)	0 (1%)	1 (1%)	47	2 (4%)	2 (4%)	2 (4%)	2 (4%)	1 (1%)
Feb	55	1 (1%)	1 (1%)	1 (1%)	1 (1%)	1 (1%)	53	3 (5%)	3 (5%)	3 (5%)	3 (5%)	1 (1%)
Mar	61	1 (2%)	1 (2%)	1 (2%)	1 (2%)	1 (1%)	59	4 (6%)	4 (6%)	4 (6%)	4 (6%)	1 (1%)
Apr	66	1 (1%)	1 (1%)	0 (0%)	1 (1%)	0 (0%)	62	4 (6%)	4 (6%)	4 (6%)	4 (6%)	0 (0%)
May	72	0 (1%)	0 (1%)	0 (0%)	0 (1%)	0 (0%)	69	4 (5%)	4 (5%)	4 (5%)	4 (5%)	0 (0%)
Jun	77	0 (0%)	0 (0%)	0 (0%)	1 (1%)	0 (0%)	73	4 (5%)	4 (5%)	4 (5%)	4 (5%)	0 (0%)
Jul	82	0 (0%)	0 (0%)	0 (1%)	0 (0%)	0 (1%)	78	4 (5%)	4 (5%)	4 (5%)	4 (5%)	0 (1%)
Aug	83	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	80	3 (4%)	3 (4%)	3 (4%)	3 (4%)	0 (0%)
Sep	78	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	75	3 (4%)	3 (4%)	3 (4%)	2 (3%)	0 (0%)

Notes: SJR5Q Flow Simulations

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second

Monthly Averages of Simulated Temperature at San Joaquin River Below Mariposa Bypass Return (Head of Reach 4B2) (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	70	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	68	3 (4%)	2 (3%)	2 (4%)	2 (3%)	0 (0%)
Nov	59	0 (-1%)	0 (-1%)	0 (0%)	-1 (-1%)	0 (0%)	58	1 (3%)	1 (2%)	2 (3%)	1 (2%)	0 (0%)
Dec	50	0 (1%)	0 (1%)	0 (1%)	0 (0%)	0 (1%)	49	2 (3%)	2 (3%)	1 (3%)	1 (2%)	0 (1%)
Jan	49	0 (1%)	0 (1%)	1 (1%)	0 (1%)	1 (1%)	48	2 (4%)	2 (4%)	2 (3%)	2 (3%)	1 (1%)
Feb	57	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	54	2 (4%)	2 (4%)	2 (4%)	2 (4%)	0 (0%)
Mar	63	1 (1%)	1 (1%)	1 (1%)	1 (1%)	1 (1%)	60	3 (6%)	3 (6%)	3 (6%)	3 (6%)	1 (1%)
Apr	67	1 (1%)	1 (1%)	0 (0%)	0 (1%)	0 (0%)	63	4 (6%)	4 (6%)	4 (6%)	4 (6%)	0 (0%)
May	75	0 (0%)	0 (0%)	0 (-1%)	0 (0%)	-1 (-1%)	71	4 (5%)	4 (5%)	4 (5%)	4 (5%)	-1 (-1%)
Jun	82	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	78	4 (5%)	4 (5%)	4 (5%)	3 (4%)	0 (0%)
Jul	85	0 (0%)	0 (-1%)	0 (0%)	-1 (-1%)	-1 (-1%)	82	3 (4%)	3 (4%)	3 (4%)	3 (4%)	-1 (-1%)
Aug	84	0 (-1%)	0 (-1%)	0 (0%)	-1 (-1%)	-1 (-1%)	80	3 (3%)	3 (3%)	3 (4%)	3 (3%)	-1 (-1%)
Sep	79	0 (-1%)	0 (-1%)	0 (0%)	0 (-1%)	0 (0%)	77	2 (3%)	2 (3%)	3 (3%)	2 (3%)	0 (0%)

Notes: SJR5Q Flow Simulations

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second

Monthly Averages of Simulated Temperature at San Joaquin River Below Mariposa Bypass Return (Head of Reach 4B2) (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	70	0 (0%)	0 (-1%)	0 (0%)	0 (0%)	0 (0%)	68	2 (3%)	2 (3%)	2 (3%)	2 (3%)	0 (0%)
Nov	57	0 (0%)	0 (0%)	0 (0%)	0 (-1%)	0 (0%)	55	2 (3%)	2 (3%)	2 (3%)	1 (2%)	0 (0%)
Dec	47	0 (1%)	1 (1%)	1 (1%)	0 (0%)	1 (2%)	47	2 (4%)	2 (4%)	1 (3%)	1 (2%)	1 (2%)
Jan	47	0 (1%)	0 (1%)	1 (2%)	0 (0%)	1 (2%)	46	2 (5%)	2 (5%)	2 (4%)	2 (4%)	1 (2%)
Feb	56	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	53	3 (5%)	3 (5%)	3 (5%)	3 (5%)	0 (0%)
Mar	62	0 (1%)	0 (1%)	0 (1%)	0 (1%)	0 (0%)	59	3 (5%)	3 (5%)	3 (5%)	3 (5%)	0 (0%)
Apr	69	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	66	4 (5%)	3 (5%)	3 (5%)	4 (5%)	0 (0%)
May	76	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	72	4 (5%)	4 (5%)	4 (5%)	4 (5%)	0 (0%)
Jun	82	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	78	4 (5%)	4 (5%)	4 (5%)	4 (5%)	0 (0%)
Jul	85	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	81	4 (4%)	4 (4%)	4 (4%)	3 (4%)	0 (0%)
Aug	83	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	80	3 (4%)	3 (4%)	3 (4%)	3 (4%)	0 (0%)
Sep	79	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	76	3 (4%)	3 (4%)	3 (4%)	3 (4%)	0 (0%)

Notes: SJR5Q Flow Simulations

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second

Monthly Averages of Simulated Temperature at San Joaquin River Below Mariposa Bypass Return (Head of Reach 4B2) (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)	Alt5 (Deg. F)	No Action Alt (cfs)	Alt1 (Deg. F)	Alt2 (Deg. F)	Alt3 (Deg. F)	Alt4 (Deg. F)	Alt5 (Deg. F)
Oct	71	0 (0%)	0 (-1%)	0 (0%)	0 (0%)	0 (0%)	69	2 (3%)	2 (3%)	2 (3%)	2 (3%)	0 (0%)
Nov	58	0 (0%)	0 (-1%)	0 (0%)	-1 (-1%)	0 (0%)	57	2 (3%)	2 (3%)	2 (3%)	1 (2%)	0 (0%)
Dec	48	0 (1%)	0 (1%)	1 (1%)	0 (0%)	1 (2%)	47	2 (3%)	2 (4%)	1 (3%)	1 (2%)	1 (2%)
Jan	46	0 (1%)	0 (1%)	1 (2%)	0 (0%)	1 (2%)	45	2 (5%)	2 (5%)	2 (4%)	2 (4%)	1 (2%)
Feb	55	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	53	3 (5%)	3 (5%)	3 (5%)	3 (5%)	0 (0%)
Mar	64	0 (1%)	0 (1%)	0 (1%)	0 (1%)	0 (0%)	61	3 (5%)	3 (5%)	3 (5%)	3 (5%)	0 (0%)
Apr	71	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	68	3 (5%)	3 (5%)	3 (5%)	3 (5%)	0 (0%)
May	77	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	73	4 (5%)	4 (5%)	4 (5%)	4 (5%)	0 (0%)
Jun	81	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	77	4 (5%)	4 (5%)	4 (5%)	4 (5%)	0 (0%)
Jul	84	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	81	4 (4%)	4 (4%)	4 (4%)	4 (4%)	0 (0%)
Aug	84	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	80	3 (4%)	3 (4%)	3 (4%)	3 (4%)	0 (0%)
Sep	79	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	76	3 (4%)	3 (4%)	3 (4%)	3 (4%)	0 (0%)

Notes: SJR5Q Flow Simulations

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second

Monthly Averages of Simulated Temperature at San Joaquin River Below Eastside Bypass Return (Head of Reach 5) (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	69	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	68	1 (1%)	1 (1%)	1 (1%)	1 (1%)	0 (0%)
Nov	57	0 (0%)	0 (0%)	0 (0%)	0 (-1%)	0 (0%)	56	1 (1%)	1 (1%)	1 (1%)	0 (1%)	0 (0%)
Dec	47	0 (1%)	1 (1%)	1 (2%)	0 (0%)	1 (2%)	47	1 (1%)	1 (2%)	0 (1%)	0 (1%)	1 (2%)
Jan	47	1 (2%)	1 (2%)	1 (3%)	1 (1%)	1 (3%)	47	1 (2%)	1 (2%)	1 (2%)	1 (2%)	1 (3%)
Feb	55	1 (1%)	1 (1%)	1 (1%)	0 (1%)	1 (1%)	54	1 (2%)	1 (2%)	1 (2%)	1 (2%)	1 (1%)
Mar	62	1 (1%)	1 (1%)	1 (1%)	1 (1%)	1 (1%)	61	2 (3%)	2 (3%)	2 (3%)	2 (3%)	1 (1%)
Apr	68	1 (1%)	1 (1%)	0 (0%)	1 (1%)	0 (0%)	66	2 (3%)	2 (3%)	2 (3%)	2 (3%)	0 (0%)
May	74	0 (1%)	0 (1%)	0 (0%)	0 (1%)	0 (0%)	72	2 (2%)	2 (2%)	2 (2%)	2 (2%)	0 (0%)
Jun	79	0 (0%)	0 (0%)	0 (0%)	0 (1%)	0 (0%)	77	2 (2%)	2 (2%)	2 (2%)	2 (2%)	0 (0%)
Jul	83	0 (0%)	0 (0%)	0 (1%)	0 (0%)	0 (1%)	81	2 (2%)	2 (2%)	2 (2%)	1 (2%)	0 (1%)
Aug	83	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	82	1 (1%)	1 (1%)	1 (1%)	1 (1%)	0 (0%)
Sep	78	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	77	1 (1%)	1 (1%)	1 (1%)	1 (1%)	0 (0%)

Notes: SJR5Q Flow Simulations

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second

Monthly Averages of Simulated Temperature at San Joaquin River Below Eastside Bypass Return (Head of Reach 5) (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	68	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	68	1 (1%)	1 (1%)	1 (1%)	1 (1%)	0 (0%)
Nov	56	0 (0%)	0 (0%)	0 (0%)	0 (-1%)	0 (0%)	55	1 (1%)	0 (1%)	0 (1%)	0 (1%)	0 (0%)
Dec	47	0 (1%)	1 (1%)	1 (1%)	0 (0%)	1 (2%)	47	1 (1%)	1 (1%)	0 (1%)	0 (0%)	1 (2%)
Jan	47	1 (2%)	1 (2%)	1 (3%)	1 (2%)	1 (3%)	47	1 (3%)	1 (3%)	1 (3%)	1 (2%)	1 (3%)
Feb	54	1 (2%)	1 (2%)	1 (2%)	1 (2%)	1 (2%)	53	2 (4%)	2 (4%)	2 (3%)	2 (3%)	1 (2%)
Mar	60	2 (3%)	2 (3%)	1 (2%)	2 (3%)	1 (2%)	59	3 (4%)	3 (4%)	3 (4%)	3 (4%)	1 (2%)
Apr	64	1 (2%)	1 (2%)	0 (0%)	1 (2%)	0 (0%)	61	2 (4%)	2 (4%)	2 (4%)	2 (4%)	0 (0%)
May	70	1 (2%)	1 (2%)	0 (0%)	1 (2%)	0 (0%)	68	2 (3%)	2 (3%)	2 (3%)	2 (3%)	0 (0%)
Jun	75	1 (1%)	1 (1%)	1 (1%)	1 (2%)	0 (1%)	73	2 (3%)	2 (3%)	2 (3%)	2 (3%)	0 (1%)
Jul	80	1 (1%)	1 (1%)	1 (2%)	1 (1%)	1 (2%)	79	2 (3%)	2 (3%)	2 (3%)	2 (3%)	1 (2%)
Aug	83	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	82	1 (1%)	1 (1%)	1 (1%)	1 (1%)	0 (0%)
Sep	77	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	76	1 (2%)	1 (2%)	1 (1%)	1 (1%)	0 (0%)

Notes: SJR5Q Flow Simulations

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second

Monthly Averages of Simulated Temperature at San Joaquin River Below Eastside Bypass Return (Head of Reach 5) (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	69	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	69	1 (2%)	1 (1%)	1 (1%)	1 (1%)	0 (0%)
Nov	59	0 (0%)	0 (0%)	0 (0%)	0 (-1%)	0 (0%)	58	0 (1%)	0 (1%)	1 (1%)	0 (0%)	0 (0%)
Dec	49	0 (1%)	0 (1%)	0 (1%)	0 (0%)	1 (1%)	49	1 (2%)	1 (2%)	1 (1%)	0 (1%)	1 (1%)
Jan	49	1 (1%)	1 (1%)	1 (2%)	1 (1%)	1 (2%)	49	1 (2%)	1 (2%)	1 (2%)	1 (2%)	1 (2%)
Feb	56	0 (0%)	0 (0%)	0 (1%)	0 (0%)	0 (1%)	56	1 (2%)	1 (2%)	1 (2%)	1 (2%)	0 (1%)
Mar	63	1 (1%)	1 (1%)	1 (1%)	1 (1%)	1 (1%)	62	2 (3%)	2 (3%)	2 (3%)	2 (3%)	1 (1%)
Apr	67	1 (1%)	0 (1%)	-1 (-1%)	0 (1%)	-1 (-1%)	64	2 (3%)	2 (3%)	2 (3%)	2 (3%)	-1 (-1%)
May	75	0 (0%)	0 (0%)	0 (-1%)	0 (0%)	0 (-1%)	73	1 (2%)	1 (2%)	1 (2%)	1 (2%)	0 (-1%)
Jun	81	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	80	1 (2%)	1 (2%)	1 (2%)	1 (2%)	0 (0%)
Jul	84	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	83	1 (1%)	1 (1%)	1 (1%)	1 (1%)	0 (0%)
Aug	83	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	82	1 (1%)	1 (1%)	1 (1%)	1 (1%)	0 (0%)
Sep	78	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	77	1 (1%)	1 (1%)	1 (1%)	1 (1%)	0 (0%)

Notes: SJR5Q Flow Simulations

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second

Monthly Averages of Simulated Temperature at San Joaquin River Below Eastside Bypass Return (Head of Reach 5) (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	69	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	68	1 (1%)	1 (1%)	1 (1%)	1 (1%)	0 (0%)
Nov	56	0 (0%)	0 (0%)	0 (0%)	0 (-1%)	0 (0%)	56	1 (1%)	1 (1%)	1 (1%)	0 (1%)	0 (0%)
Dec	46	0 (1%)	1 (1%)	1 (2%)	0 (0%)	1 (2%)	47	1 (2%)	1 (2%)	1 (1%)	0 (1%)	1 (2%)
Jan	46	1 (2%)	1 (2%)	2 (3%)	1 (1%)	2 (3%)	46	1 (2%)	1 (2%)	1 (2%)	1 (2%)	2 (3%)
Feb	55	0 (0%)	0 (0%)	0 (1%)	0 (0%)	0 (0%)	54	1 (2%)	1 (2%)	1 (2%)	1 (2%)	0 (0%)
Mar	62	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	61	1 (2%)	1 (2%)	1 (2%)	1 (2%)	0 (0%)
Apr	70	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	68	2 (2%)	2 (2%)	2 (2%)	2 (2%)	0 (0%)
May	76	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	75	1 (2%)	1 (2%)	1 (2%)	1 (2%)	0 (0%)
Jun	81	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	80	1 (2%)	1 (2%)	1 (2%)	1 (2%)	0 (0%)
Jul	84	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	82	1 (1%)	1 (1%)	1 (1%)	1 (1%)	0 (0%)
Aug	82	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	81	1 (1%)	1 (1%)	1 (1%)	1 (1%)	0 (0%)
Sep	78	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	77	1 (1%)	1 (1%)	1 (1%)	1 (1%)	0 (0%)

Notes: SJR5Q Flow Simulations

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second

Monthly Averages of Simulated Temperature at San Joaquin River Below Eastside Bypass Return (Head of Reach 5) (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)	Alt5 (Deg. F)	No Action Alt (cfs)	Alt1 (Deg. F)	Alt2 (Deg. F)	Alt3 (Deg. F)	Alt4 (Deg. F)	Alt5 (Deg. F)
Oct	70	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	69	1 (1%)	1 (1%)	1 (1%)	1 (1%)	0 (0%)
Nov	58	0 (0%)	0 (0%)	0 (0%)	0 (-1%)	0 (0%)	57	1 (1%)	1 (1%)	1 (1%)	0 (1%)	0 (0%)
Dec	46	1 (1%)	1 (1%)	1 (2%)	0 (0%)	1 (3%)	47	1 (2%)	1 (2%)	0 (1%)	0 (1%)	1 (3%)
Jan	45	1 (2%)	1 (2%)	2 (3%)	1 (1%)	2 (4%)	46	1 (2%)	1 (2%)	1 (2%)	1 (2%)	2 (4%)
Feb	54	0 (0%)	0 (0%)	0 (1%)	0 (0%)	0 (1%)	54	1 (2%)	1 (2%)	1 (2%)	1 (2%)	0 (1%)
Mar	64	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	63	1 (2%)	1 (2%)	1 (2%)	1 (2%)	0 (0%)
Apr	71	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	70	1 (2%)	1 (2%)	1 (2%)	1 (2%)	0 (0%)
May	76	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	75	1 (2%)	1 (2%)	1 (2%)	1 (2%)	0 (0%)
Jun	80	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	79	1 (2%)	1 (2%)	1 (2%)	1 (2%)	0 (0%)
Jul	84	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	82	1 (1%)	1 (1%)	1 (1%)	1 (1%)	0 (0%)
Aug	83	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	82	1 (1%)	1 (1%)	1 (1%)	1 (1%)	0 (0%)
Sep	78	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	77	1 (1%)	1 (1%)	1 (1%)	1 (1%)	0 (0%)

Notes: SJR5Q Flow Simulations

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second

Monthly Averages of Simulated Temperature at San Joaquin River Above Merced Confluence (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	68	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	66	2 (3%)	2 (3%)	2 (2%)	2 (2%)	0 (0%)
Nov	56	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	55	1 (2%)	1 (2%)	1 (2%)	1 (2%)	0 (0%)
Dec	48	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	47	1 (2%)	1 (2%)	1 (2%)	1 (2%)	0 (0%)
Jan	48	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	47	1 (3%)	1 (3%)	1 (2%)	1 (2%)	0 (0%)
Feb	54	0 (0%)	0 (0%)	0 (1%)	0 (0%)	0 (0%)	53	2 (3%)	2 (3%)	2 (3%)	2 (3%)	0 (0%)
Mar	62	0 (1%)	0 (1%)	0 (1%)	0 (1%)	0 (1%)	60	2 (3%)	2 (3%)	2 (3%)	2 (3%)	0 (1%)
Apr	68	0 (1%)	0 (1%)	0 (0%)	0 (1%)	0 (0%)	65	2 (3%)	2 (3%)	2 (3%)	2 (3%)	0 (0%)
May	73	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	71	2 (3%)	2 (3%)	2 (3%)	2 (3%)	0 (0%)
Jun	78	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	76	2 (3%)	2 (3%)	2 (3%)	2 (3%)	0 (0%)
Jul	82	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (1%)	79	2 (3%)	2 (3%)	2 (3%)	2 (3%)	0 (1%)
Aug	81	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	79	2 (3%)	2 (3%)	2 (3%)	2 (3%)	0 (0%)
Sep	76	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	75	2 (3%)	2 (3%)	2 (3%)	2 (3%)	0 (0%)

Notes: SJR5Q Flow Simulations

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second

Monthly Averages of Simulated Temperature at San Joaquin River Above Merced Confluence (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	67	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	66	2 (2%)	2 (3%)	2 (2%)	2 (2%)	0 (0%)
Nov	55	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	54	1 (2%)	1 (2%)	1 (2%)	1 (2%)	0 (0%)
Dec	47	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	47	1 (2%)	1 (2%)	1 (2%)	1 (1%)	0 (0%)
Jan	48	0 (1%)	0 (1%)	0 (1%)	0 (1%)	0 (1%)	47	1 (3%)	1 (3%)	1 (2%)	1 (2%)	0 (1%)
Feb	53	1 (1%)	1 (1%)	1 (1%)	1 (1%)	1 (1%)	52	2 (3%)	2 (3%)	2 (3%)	2 (3%)	1 (1%)
Mar	60	1 (1%)	1 (1%)	1 (1%)	1 (1%)	1 (1%)	59	2 (4%)	2 (4%)	2 (4%)	2 (4%)	1 (1%)
Apr	65	1 (1%)	1 (1%)	0 (0%)	1 (1%)	0 (0%)	63	2 (4%)	2 (4%)	2 (4%)	2 (4%)	0 (0%)
May	72	1 (1%)	1 (1%)	0 (0%)	1 (1%)	0 (0%)	70	2 (3%)	2 (3%)	2 (3%)	2 (3%)	0 (0%)
Jun	76	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	74	2 (3%)	2 (3%)	2 (3%)	2 (3%)	0 (0%)
Jul	81	0 (1%)	0 (1%)	1 (1%)	0 (1%)	1 (1%)	79	3 (3%)	3 (3%)	3 (3%)	3 (3%)	1 (1%)
Aug	81	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	79	2 (3%)	2 (3%)	2 (3%)	2 (3%)	0 (0%)
Sep	76	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	74	2 (3%)	2 (3%)	2 (2%)	2 (3%)	0 (0%)

Notes: SJR5Q Flow Simulations

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second

Monthly Averages of Simulated Temperature at San Joaquin River Above Merced Confluence (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	68	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	67	2 (3%)	2 (3%)	2 (2%)	2 (3%)	0 (0%)
Nov	58	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	57	1 (2%)	1 (2%)	1 (2%)	1 (2%)	0 (0%)
Dec	50	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	49	1 (2%)	1 (2%)	1 (2%)	1 (2%)	0 (0%)
Jan	50	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	49	1 (2%)	1 (2%)	1 (2%)	1 (2%)	0 (0%)
Feb	55	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	54	2 (3%)	2 (3%)	2 (3%)	2 (3%)	0 (0%)
Mar	62	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	60	2 (3%)	2 (3%)	2 (3%)	2 (3%)	0 (0%)
Apr	67	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	65	2 (4%)	2 (4%)	2 (4%)	2 (4%)	0 (0%)
May	73	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	71	2 (3%)	2 (3%)	2 (3%)	2 (3%)	0 (0%)
Jun	79	0 (0%)	0 (0%)	0 (0%)	0 (1%)	0 (1%)	77	3 (3%)	3 (3%)	3 (3%)	3 (4%)	0 (1%)
Jul	82	0 (0%)	0 (0%)	0 (0%)	0 (1%)	0 (1%)	80	2 (3%)	2 (3%)	2 (3%)	3 (3%)	0 (1%)
Aug	81	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	79	2 (3%)	2 (3%)	2 (3%)	2 (3%)	0 (0%)
Sep	76	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	75	2 (3%)	2 (3%)	2 (3%)	2 (3%)	0 (0%)

Notes: SJR5Q Flow Simulations

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second

Monthly Averages of Simulated Temperature at San Joaquin River Above Merced Confluence (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	67	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	66	2 (3%)	2 (3%)	2 (2%)	2 (2%)	0 (0%)
Nov	56	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	54	1 (2%)	1 (2%)	1 (2%)	1 (2%)	0 (0%)
Dec	47	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	46	1 (2%)	1 (2%)	1 (2%)	1 (2%)	0 (0%)
Jan	47	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	46	1 (3%)	1 (3%)	1 (3%)	1 (2%)	0 (0%)
Feb	54	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	53	2 (3%)	2 (3%)	2 (3%)	2 (3%)	0 (0%)
Mar	62	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	60	2 (3%)	2 (3%)	2 (3%)	2 (3%)	0 (0%)
Apr	69	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	67	2 (3%)	2 (3%)	2 (3%)	2 (3%)	0 (0%)
May	75	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	72	2 (3%)	2 (3%)	2 (3%)	2 (3%)	0 (0%)
Jun	79	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	77	3 (3%)	3 (3%)	3 (3%)	3 (3%)	0 (0%)
Jul	82	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	80	2 (3%)	2 (3%)	2 (3%)	2 (3%)	0 (0%)
Aug	80	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	78	2 (3%)	2 (3%)	2 (3%)	2 (3%)	0 (0%)
Sep	77	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	75	2 (3%)	2 (3%)	2 (3%)	2 (3%)	0 (0%)

Notes: SJR5Q Flow Simulations

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second

Monthly Averages of Simulated Temperature at San Joaquin River Above Merced Confluence (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)	Alt5 (Deg. F)	No Action Alt (cfs)	Alt1 (Deg. F)	Alt2 (Deg. F)	Alt3 (Deg. F)	Alt4 (Deg. F)	Alt5 (Deg. F)
Oct	69	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	67	2 (2%)	2 (2%)	2 (2%)	2 (2%)	0 (0%)
Nov	57	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	56	1 (2%)	1 (2%)	1 (2%)	1 (2%)	0 (0%)
Dec	48	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	47	1 (2%)	1 (2%)	1 (2%)	1 (2%)	0 (0%)
Jan	47	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	46	1 (3%)	1 (3%)	1 (2%)	1 (2%)	0 (0%)
Feb	54	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	52	2 (3%)	2 (3%)	2 (3%)	2 (3%)	0 (0%)
Mar	63	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	61	2 (3%)	2 (3%)	2 (3%)	2 (3%)	0 (0%)
Apr	70	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	68	2 (3%)	2 (3%)	2 (3%)	2 (3%)	0 (0%)
May	74	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	72	2 (3%)	2 (3%)	2 (3%)	2 (3%)	0 (0%)
Jun	79	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	76	2 (3%)	2 (3%)	2 (3%)	2 (3%)	0 (0%)
Jul	82	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	80	2 (3%)	2 (3%)	2 (3%)	2 (3%)	0 (0%)
Aug	81	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	79	2 (3%)	2 (3%)	2 (3%)	2 (3%)	0 (0%)
Sep	77	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	75	2 (3%)	2 (3%)	2 (3%)	2 (3%)	0 (0%)

Notes: SJR5Q Flow Simulations

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second

Monthly Averages of Simulated Temperature at San Joaquin River Below Merced Confluence (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	66	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	65	1 (2%)	1 (2%)	1 (2%)	1 (2%)	0 (0%)
Nov	55	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	55	1 (2%)	1 (2%)	1 (2%)	1 (2%)	0 (0%)
Dec	48	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	47	1 (2%)	1 (2%)	1 (1%)	1 (1%)	0 (0%)
Jan	48	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	47	1 (2%)	1 (2%)	1 (2%)	1 (2%)	0 (0%)
Feb	54	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	53	1 (2%)	1 (3%)	1 (3%)	1 (2%)	0 (0%)
Mar	61	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	59	2 (3%)	2 (3%)	2 (3%)	2 (3%)	0 (0%)
Apr	66	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	64	2 (3%)	2 (3%)	2 (3%)	2 (3%)	0 (0%)
May	71	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	69	2 (3%)	2 (3%)	2 (3%)	2 (3%)	0 (0%)
Jun	77	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	75	2 (3%)	2 (3%)	2 (3%)	2 (3%)	0 (0%)
Jul	81	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	79	2 (2%)	2 (2%)	2 (2%)	2 (3%)	0 (0%)
Aug	80	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	78	2 (3%)	2 (3%)	2 (2%)	2 (3%)	0 (0%)
Sep	75	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	74	2 (2%)	2 (2%)	2 (2%)	2 (2%)	0 (0%)

Notes: SJR5Q Flow Simulations

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second

Monthly Averages of Simulated Temperature at San Joaquin River Below Merced Confluence (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	66	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	64	1 (2%)	1 (2%)	1 (2%)	1 (2%)	0 (0%)
Nov	55	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	54	1 (2%)	1 (2%)	1 (2%)	1 (2%)	0 (0%)
Dec	48	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	47	1 (1%)	1 (2%)	1 (1%)	1 (1%)	0 (0%)
Jan	48	0 (0%)	0 (0%)	0 (1%)	0 (0%)	0 (1%)	47	1 (2%)	1 (2%)	1 (2%)	1 (2%)	0 (1%)
Feb	53	0 (1%)	0 (1%)	0 (1%)	0 (1%)	0 (1%)	52	1 (3%)	1 (3%)	1 (3%)	1 (3%)	0 (1%)
Mar	59	0 (1%)	0 (1%)	0 (1%)	0 (1%)	0 (1%)	58	2 (3%)	2 (3%)	2 (3%)	2 (3%)	0 (1%)
Apr	63	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	61	2 (3%)	2 (3%)	2 (3%)	2 (3%)	0 (0%)
May	69	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	67	2 (3%)	2 (3%)	2 (3%)	2 (3%)	0 (0%)
Jun	74	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	72	2 (2%)	2 (2%)	2 (2%)	2 (3%)	0 (0%)
Jul	79	0 (0%)	0 (0%)	-1 (-1%)	0 (0%)	-1 (-1%)	77	2 (2%)	2 (2%)	1 (2%)	2 (2%)	-1 (-1%)
Aug	79	0 (1%)	0 (1%)	0 (0%)	0 (1%)	0 (0%)	77	2 (3%)	2 (3%)	2 (3%)	2 (3%)	0 (0%)
Sep	73	1 (1%)	0 (1%)	0 (0%)	0 (1%)	0 (0%)	72	2 (3%)	2 (3%)	2 (2%)	2 (2%)	0 (0%)

Notes: SJR5Q Flow Simulations

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second

Monthly Averages of Simulated Temperature at San Joaquin River Below Merced Confluence (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	0 (1%)	0 (1%)	0 (0%)	0 (0%)	0 (0%)	63	2 (3%)	2 (3%)	1 (2%)	1 (2%)	0 (0%)
Nov	57	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	56	1 (2%)	1 (2%)	1 (2%)	1 (2%)	0 (0%)
Dec	50	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	49	1 (2%)	1 (2%)	1 (2%)	1 (1%)	0 (0%)
Jan	50	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	49	1 (2%)	1 (2%)	1 (2%)	1 (1%)	0 (0%)
Feb	54	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	53	1 (2%)	1 (2%)	1 (2%)	1 (2%)	0 (0%)
Mar	61	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	59	2 (3%)	2 (3%)	2 (3%)	2 (3%)	0 (0%)
Apr	66	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	64	2 (3%)	2 (3%)	2 (3%)	2 (3%)	0 (0%)
May	71	0 (0%)	0 (0%)	0 (1%)	0 (0%)	0 (1%)	69	2 (3%)	2 (3%)	2 (3%)	2 (3%)	0 (1%)
Jun	78	0 (0%)	0 (0%)	0 (0%)	0 (1%)	1 (1%)	76	2 (3%)	2 (3%)	2 (3%)	2 (3%)	1 (1%)
Jul	82	0 (0%)	0 (1%)	0 (0%)	1 (1%)	1 (1%)	80	2 (3%)	2 (3%)	2 (3%)	2 (3%)	1 (1%)
Aug	80	0 (0%)	0 (0%)	0 (0%)	0 (1%)	0 (1%)	79	2 (3%)	2 (3%)	2 (3%)	2 (3%)	0 (1%)
Sep	76	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	74	2 (3%)	2 (3%)	2 (2%)	2 (3%)	0 (0%)

Notes: SJR5Q Flow Simulations

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second

Monthly Averages of Simulated Temperature at San Joaquin River Below Merced Confluence (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	66	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	65	1 (2%)	1 (2%)	1 (2%)	1 (2%)	0 (0%)
Nov	55	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	54	1 (2%)	1 (2%)	1 (2%)	1 (2%)	0 (0%)
Dec	48	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	47	1 (2%)	1 (2%)	1 (2%)	1 (1%)	0 (0%)
Jan	48	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	47	1 (2%)	1 (2%)	1 (2%)	1 (2%)	0 (0%)
Feb	54	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	53	1 (3%)	1 (3%)	1 (3%)	1 (3%)	0 (0%)
Mar	61	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	60	2 (3%)	2 (3%)	2 (3%)	2 (3%)	0 (0%)
Apr	68	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	66	2 (3%)	2 (3%)	2 (3%)	2 (3%)	0 (0%)
May	72	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	71	2 (3%)	2 (3%)	2 (3%)	2 (3%)	0 (0%)
Jun	78	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	76	2 (3%)	2 (3%)	2 (3%)	2 (3%)	0 (0%)
Jul	82	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	80	2 (3%)	2 (3%)	2 (3%)	2 (3%)	0 (0%)
Aug	80	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	78	2 (2%)	2 (2%)	2 (2%)	2 (2%)	0 (0%)
Sep	76	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	75	2 (2%)	2 (2%)	2 (2%)	2 (2%)	0 (0%)

Notes: SJR5Q Flow Simulations

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second

Monthly Averages of Simulated Temperature at San Joaquin River Below Merced Confluence (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)	Alt5 (Deg. F)	No Action Alt (cfs)	Alt1 (Deg. F)	Alt2 (Deg. F)	Alt3 (Deg. F)	Alt4 (Deg. F)	Alt5 (Deg. F)
Oct	67	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	66	1 (2%)	1 (2%)	1 (2%)	1 (2%)	0 (0%)
Nov	56	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	55	1 (2%)	1 (2%)	1 (2%)	1 (2%)	0 (0%)
Dec	48	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	47	1 (2%)	1 (2%)	1 (2%)	1 (1%)	0 (0%)
Jan	47	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	46	1 (2%)	1 (2%)	1 (2%)	1 (2%)	0 (0%)
Feb	54	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	52	1 (3%)	1 (3%)	1 (3%)	1 (3%)	0 (0%)
Mar	63	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	61	2 (3%)	2 (3%)	2 (3%)	2 (3%)	0 (0%)
Apr	69	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	67	2 (3%)	2 (3%)	2 (3%)	2 (3%)	0 (0%)
May	73	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	71	2 (3%)	2 (3%)	2 (3%)	2 (3%)	0 (0%)
Jun	78	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	76	2 (3%)	2 (3%)	2 (3%)	2 (3%)	0 (0%)
Jul	81	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	79	2 (2%)	2 (2%)	2 (2%)	2 (2%)	0 (0%)
Aug	81	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	79	2 (2%)	2 (2%)	2 (2%)	2 (2%)	0 (0%)
Sep	76	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	75	2 (2%)	2 (2%)	2 (2%)	2 (2%)	0 (0%)

Notes: SJR5Q Flow Simulations

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second

Average Simulated Millerton Release (Head of Reach 1) (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	54	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	49	50	51	52
1984	53	55	54	46	45	45	47	49	50	52	53	55
1985	57	58	54	48	46	46	47	49	50	50	52	53
1986	57	57	53	46	45	45	46	48	51	52	53	54
1987	55	58	55	49	48	47	47	48	49	50	51	53
1988	56	59	54	47	45	46	47	47	48	49	51	53
1989	57	59	54	47	46	46	47	48	50	50	52	54
1990	57	58	54	49	47	47	48	48	49	50	52	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	52	54
1993	59	59	54	46	44	45	46	48	50	52	52	53
1994	55	57	55	49	47	47	48	49	49	50	51	53
1995	57	56	52	46	44	45	46	48	51	54	55	55
1996	56	57	56	49	45	45	47	48	50	51	53	54
1997	57	58	54	46	45	45	46	49	53	56	57	58
1998	59	60	55	48	45	46	47	50	53	55	56	56
1999	57	58	55	48	45	45	47	49	50	51	52	54
2000	56	60	56	50	46	46	48	50	51	52	53	54
2001	57	58	54	49	47	46	47	49	50	51	53	54
2002	58	60	55	47	46	47	48	49	50	51	52	54
2003	57	60	56	49	47	48	49	50	51	52	53	54

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated Millerton Release (Head of Reach 1) (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	52	52	53	54
1982	56	59	57	53	50	48	47	47	48	50	52	53
1983	54	55	54	51	50	50	49	51	55	54	53	52
1984	52	53	54	52	51	51	50	50	51	52	52	54
1985	55	56	55	52	51	51	51	51	51	52	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	51
1989	51	53	55	53	50	49	48	49	49	50	50	51
1990	52	54	56	54	52	50	49	49	49	50	50	50
1991	51	53	54	52	51	50	49	50	51	52	53	54
1992	55	57	57	53	51	49	49	49	49	50	51	51
1993	52	54	56	54	50	47	47	47	49	51	53	54
1994	55	57	56	53	52	51	51	51	51	51	52	52
1995	53	55	55	52	50	48	47	47	48	56	55	54
1996	55	55	56	55	53	51	50	51	52	53	53	55
1997	55	57	56	51	49	48	48	49	51	51	53	54
1998	55	56	56	54	52	50	49	49	50	56	55	55
1999	55	56	54	52	51	51	51	51	52	53	54	56
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	52	52
2003	53	55	57	56	52	51	50	51	51	52	53	55

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Change in Average Simulated Millerton Release (Head of Reach 1) (Deg. F)
Alternative1 (2005) - Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					5	4	2	0	-1	0	-1	0
1981	-1	-2	0	3	5	5	4	2	2	1	1	0
1982	-2	1	3	7	6	4	2	-1	-3	-2	-1	-1
1983	-2	-3	1	6	5	4	1	1	7	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	-2	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	-4	2	6	5	3	2	2	1	0	-1	-2
1989	-5	-6	1	6	4	3	2	0	0	-1	-1	-3
1990	-5	-4	1	5	4	3	1	0	0	0	-2	-4
1991	-7	-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	-6	-6	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	6	6	3	0	-2	-3	3	1	0
1996	-1	-2	-1	5	7	6	3	2	3	2	1	1
1997	-1	-1	2	6	4	3	2	0	-3	-4	-4	-4
1998	-4	-4	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	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 SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Percent Change in Average Simulated Millerton Release (Head of Reach 1) (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%	3%	3%	1%	0%
1982	-3%	1%	7%	16%	13%	9%	4%	-2%	-5%	-4%	-2%	-1%
1983	-3%	-4%	2%	13%	11%	9%	3%	3%	14%	7%	3%	1%
1984	-1%	-4%	0%	14%	14%	12%	7%	2%	1%	0%	-1%	-1%
1985	-4%	-3%	3%	10%	11%	11%	8%	5%	3%	2%	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%	4%	3%	0%
1988	-4%	-6%	4%	13%	11%	8%	5%	4%	2%	1%	-1%	-4%
1989	-10%	-10%	1%	12%	10%	7%	4%	1%	0%	-1%	-3%	-5%
1990	-9%	-8%	3%	10%	9%	6%	2%	1%	0%	-1%	-3%	-7%
1991	-13%	-9%	3%	9%	7%	7%	4%	-1%	-2%	-2%	-2%	-3%
1992	-5%	-3%	6%	11%	11%	7%	3%	2%	1%	0%	-2%	-5%
1993	-11%	-9%	4%	16%	14%	6%	2%	-1%	-1%	-1%	1%	2%
1994	2%	0%	2%	8%	11%	9%	6%	4%	3%	2%	1%	-2%
1995	-6%	-3%	6%	14%	13%	7%	1%	-4%	-6%	5%	1%	-1%
1996	-2%	-4%	-1%	11%	16%	13%	7%	5%	5%	3%	2%	1%
1997	-2%	-2%	4%	12%	8%	7%	4%	-1%	-5%	-8%	-7%	-7%
1998	-8%	-6%	2%	12%	14%	8%	4%	-1%	-5%	3%	-1%	-1%
1999	-2%	-3%	0%	9%	14%	12%	8%	5%	4%	3%	4%	3%
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 SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated Millerton Release (Head of Reach 1) (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	54	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	49	50	51	52
1984	53	55	54	46	45	45	47	49	50	52	53	55
1985	57	58	54	48	46	46	47	49	50	50	52	53
1986	57	57	53	46	45	45	46	48	51	52	53	54
1987	55	58	55	49	48	47	47	48	49	50	51	53
1988	56	59	54	47	45	46	47	47	48	49	51	53
1989	57	59	54	47	46	46	47	48	50	50	52	54
1990	57	58	54	49	47	47	48	48	49	50	52	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	52	54
1993	59	59	54	46	44	45	46	48	50	52	52	53
1994	55	57	55	49	47	47	48	49	49	50	51	53
1995	57	56	52	46	44	45	46	48	51	54	55	55
1996	56	57	56	49	45	45	47	48	50	51	53	54
1997	57	58	54	46	45	45	46	49	53	56	57	58
1998	59	60	55	48	45	46	47	50	53	55	56	56
1999	57	58	55	48	45	45	47	49	50	51	52	54
2000	56	60	56	50	46	46	48	50	51	52	53	54
2001	57	58	54	49	47	46	47	49	50	51	53	54
2002	58	60	55	47	46	47	48	49	50	51	52	54
2003	57	60	56	49	47	48	49	50	51	52	53	54

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated Millerton Release (Head of Reach 1) (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	55	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	51	55	54	53	52
1984	52	53	54	52	51	51	50	50	51	52	53	54
1985	55	56	55	52	51	51	51	51	51	52	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	50	50	50
1991	51	53	54	52	51	50	49	50	51	52	53	54
1992	55	57	57	53	51	49	49	49	49	50	51	51
1993	52	54	56	54	50	48	47	47	49	51	53	55
1994	56	57	56	53	52	51	50	50	51	51	52	52
1995	53	55	55	52	50	48	47	47	48	56	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	56	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	52	52
2003	53	55	57	56	52	51	50	51	51	52	53	55

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Change in Average Simulated Millerton Release (Head of Reach 1) (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	0	0
1982	-2	1	4	7	6	4	2	-1	-3	-2	-1	-1
1983	-2	-3	1	6	5	4	1	1	7	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	-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	-5	-6	1	6	4	3	2	0	0	-1	-1	-3
1990	-5	-4	1	5	4	3	1	0	0	0	-2	-4
1991	-7	-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	-6	-6	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	6	6	3	0	-2	-3	3	1	0
1996	-1	-2	-1	5	7	6	3	2	2	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	3	8	6	4	2	1	0	0	-1	-2
2003	-4	-4	1	7	5	3	2	1	0	0	0	0

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Percent Change in Average Simulated Millerton Release (Head of Reach 1) (Deg. F)
From Existing Conditions (2005)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated Millerton Release (Head of Reach 1) (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	54	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	49	50	51	52
1984	53	55	54	46	45	45	47	49	50	52	53	55
1985	57	58	54	48	46	46	47	49	50	50	52	53
1986	57	57	53	46	45	45	46	48	51	52	53	54
1987	55	58	55	49	48	47	47	48	49	50	51	53
1988	56	59	54	47	45	46	47	47	48	49	51	53
1989	57	59	54	47	46	46	47	48	50	50	52	54
1990	57	58	54	49	47	47	48	48	49	50	52	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	52	54
1993	59	59	54	46	44	45	46	48	50	52	52	53
1994	55	57	55	49	47	47	48	49	49	50	51	53
1995	57	56	52	46	44	45	46	48	51	54	55	55
1996	56	57	56	49	45	45	47	48	50	51	53	54
1997	57	58	54	46	45	45	46	49	53	56	57	58
1998	59	60	55	48	45	46	47	50	53	55	56	56
1999	57	58	55	48	45	45	47	49	50	51	52	54
2000	56	60	56	50	46	46	48	50	51	52	53	54
2001	57	58	54	49	47	46	47	49	50	51	53	54
2002	58	60	55	47	46	47	48	49	50	51	52	54
2003	57	60	56	49	47	48	49	50	51	52	53	54

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated Millerton Release (Head of Reach 1) (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	56	56	55	53	52	52	51	51	51	52	53	54
1982	55	57	57	53	50	48	47	47	48	50	52	53
1983	54	55	54	51	50	50	49	51	55	54	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	50	52	53
1987	54	55	55	53	52	52	51	51	51	52	52	52
1988	53	54	55	53	50	49	48	49	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	50	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	50	50	51
1993	52	54	57	53	49	47	47	48	50	53	55	56
1994	57	58	57	53	52	50	50	50	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	55	55
1999	56	56	55	52	52	51	51	51	52	53	55	56
2000	57	59	59	56	53	51	50	51	51	53	54	55
2001	57	58	57	55	52	51	50	50	51	51	52	53
2002	55	57	58	54	51	50	50	50	50	51	52	52
2003	53	56	58	55	52	51	50	50	51	52	53	54

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Change in Average Simulated Millerton Release (Head of Reach 1) (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	-2	-1
1983	-2	-3	1	6	5	4	1	1	7	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	1	1	1	0
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	-5	-6	1	5	4	3	2	0	0	-1	-1	-3
1990	-5	-4	2	5	4	3	1	1	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	0	-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	6	5	3	0	-1	-3	1	1	0
1996	-1	-2	-1	6	7	6	3	3	2	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	-3	-3	-1	-1
1999	-1	-2	0	4	6	6	4	3	2	2	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	3	7	5	3	2	1	0	0	-1	-2
2003	-4	-4	2	6	5	3	2	0	0	0	0	0

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Percent Change in Average Simulated Millerton Release (Head of Reach 1) (Deg. F)
From Existing Conditions (2005)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated Millerton Release (Head of Reach 1) (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	54	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	49	50	51	52
1984	53	55	54	46	45	45	47	49	50	52	53	55
1985	57	58	54	48	46	46	47	49	50	50	52	53
1986	57	57	53	46	45	45	46	48	51	52	53	54
1987	55	58	55	49	48	47	47	48	49	50	51	53
1988	56	59	54	47	45	46	47	47	48	49	51	53
1989	57	59	54	47	46	46	47	48	50	50	52	54
1990	57	58	54	49	47	47	48	48	49	50	52	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	52	54
1993	59	59	54	46	44	45	46	48	50	52	52	53
1994	55	57	55	49	47	47	48	49	49	50	51	53
1995	57	56	52	46	44	45	46	48	51	54	55	55
1996	56	57	56	49	45	45	47	48	50	51	53	54
1997	57	58	54	46	45	45	46	49	53	56	57	58
1998	59	60	55	48	45	46	47	50	53	55	56	56
1999	57	58	55	48	45	45	47	49	50	51	52	54
2000	56	60	56	50	46	46	48	50	51	52	53	54
2001	57	58	54	49	47	46	47	49	50	51	53	54
2002	58	60	55	47	46	47	48	49	50	51	52	54
2003	57	60	56	49	47	48	49	50	51	52	53	54

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated Millerton Release (Head of Reach 1) (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	50
1981	49	49	50	51	51	51	51	51	52	54	54	52
1982	51	51	52	51	50	48	47	48	52	54	54	49
1983	48	49	52	51	49	49	49	51	56	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	53	51
1986	51	51	52	52	51	48	47	49	53	55	55	49
1987	49	49	49	50	50	50	50	51	51	51	52	51
1988	51	51	51	51	50	50	50	50	50	50	51	51
1989	51	51	51	51	51	50	49	49	50	51	51	51
1990	51	51	51	52	52	51	50	50	50	51	51	51
1991	51	51	51	52	51	51	50	50	52	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	52	55	56	50
1994	49	50	50	51	51	51	50	50	50	51	51	51
1995	51	51	51	51	50	48	47	48	53	58	57	49
1996	49	49	50	52	52	50	50	51	54	56	57	52
1997	51	51	52	50	49	48	48	50	54	56	57	50
1998	49	50	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	55	55	52
2001	52	52	52	53	52	51	51	51	51	52	53	52
2002	52	52	52	53	52	51	51	51	51	52	53	52
2003	52	52	52	52	52	52	51	51	52	53	54	53

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Change in Average Simulated Millerton Release (Head of Reach 1) (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	2	7	4	3	-1
1984	-3	-4	-2	6	6	5	3	1	2	3	2	-4
1985	-6	-7	-2	3	4	4	3	2	1	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	1	1	-1
1988	-5	-7	-3	4	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	6	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	6	3	1	-1	2	4	2	-6
1996	-7	-8	-6	2	6	5	3	2	5	5	4	-2
1997	-5	-7	-2	4	3	3	1	0	0	0	0	-7
1998	-10	-10	-6	2	5	3	2	0	1	4	2	-5
1999	-6	-8	-3	3	5	5	3	2	3	5	3	-2
2000	-5	-8	-4	3	6	5	3	1	2	3	2	-2
2001	-5	-6	-2	4	5	5	3	2	1	1	1	-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 SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Percent Change in Average Simulated Millerton Release (Head of Reach 1) (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%	-8%
1981	-11%	-14%	-10%	2%	8%	10%	7%	4%	5%	5%	4%	-5%
1982	-12%	-12%	-4%	12%	12%	9%	5%	-1%	3%	4%	2%	-10%
1983	-13%	-15%	-2%	11%	10%	9%	2%	3%	15%	8%	6%	-2%
1984	-5%	-8%	-4%	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%	-3%	12%	13%	7%	2%	1%	5%	5%	4%	-8%
1987	-12%	-15%	-11%	1%	5%	8%	6%	5%	4%	3%	3%	-2%
1988	-8%	-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%	-9%	2%	10%	11%	9%	6%	4%	2%	2%	0%	-6%
1993	-13%	-14%	-6%	14%	14%	9%	4%	1%	4%	7%	7%	-6%
1994	-10%	-13%	-8%	4%	8%	8%	5%	3%	2%	1%	0%	-4%
1995	-10%	-10%	-1%	12%	13%	8%	2%	-1%	3%	7%	4%	-10%
1996	-12%	-14%	-11%	5%	14%	12%	7%	5%	9%	9%	8%	-4%
1997	-9%	-12%	-4%	10%	7%	6%	3%	0%	1%	0%	0%	-13%
1998	-17%	-17%	-10%	4%	11%	7%	3%	-1%	2%	7%	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	-10%	-13%	-4%	13%	13%	9%	6%	3%	2%	2%	1%	-4%
2003	-10%	-13%	-8%	7%	10%	9%	5%	3%	2%	2%	2%	-3%

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated Millerton Release (Head of Reach 1) (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	54	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	49	50	51	52
1984	53	55	54	46	45	45	47	49	50	52	53	55
1985	57	58	54	48	46	46	47	49	50	50	52	53
1986	57	57	53	46	45	45	46	48	51	52	53	54
1987	55	58	55	49	48	47	47	48	49	50	51	53
1988	56	59	54	47	45	46	47	47	48	49	51	53
1989	57	59	54	47	46	46	47	48	50	50	52	54
1990	57	58	54	49	47	47	48	48	49	50	52	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	52	54
1993	59	59	54	46	44	45	46	48	50	52	52	53
1994	55	57	55	49	47	47	48	49	49	50	51	53
1995	57	56	52	46	44	45	46	48	51	54	55	55
1996	56	57	56	49	45	45	47	48	50	51	53	54
1997	57	58	54	46	45	45	46	49	53	56	57	58
1998	59	60	55	48	45	46	47	50	53	55	56	56
1999	57	58	55	48	45	45	47	49	50	51	52	54
2000	56	60	56	50	46	46	48	50	51	52	53	54
2001	57	58	54	49	47	46	47	49	50	51	53	54
2002	58	60	55	47	46	47	48	49	50	51	52	54
2003	57	60	56	49	47	48	49	50	51	52	53	54

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated Millerton Release (Head of Reach 1) (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	52	51	51	52	53	55	58
1982	61	59	55	49	47	46	46	47	49	51	53	54
1983	54	56	55	51	49	49	49	50	55	54	53	52
1984	52	52	54	52	51	51	50	50	51	52	54	54
1985	55	56	56	53	51	51	51	51	52	53	54	55
1986	58	59	55	50	49	46	46	47	48	50	52	53
1987	55	56	56	53	52	51	51	51	51	52	53	55
1988	58	60	55	49	48	48	49	49	50	51	52	54
1989	58	59	54	49	48	48	50	51	51	52	53	55
1990	59	59	54	50	49	49	50	51	51	52	53	55
1991	60	59	53	49	49	50	51	54	56	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	52	50	49	50	50	52	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	52	49	48	48	50	51	52	53	55
1998	55	56	56	54	52	50	49	49	50	53	55	55
1999	56	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	54	55	58
2002	61	61	57	50	48	49	50	51	52	52	54	56
2003	59	60	57	52	49	49	50	51	54	55	56	58

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Change in Average Simulated Millerton Release (Head of Reach 1) (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	3	5	5	4	2	2	3	3	3
1982	3	1	1	3	2	2	1	-1	-1	-2	-1	0
1983	-1	-2	1	6	4	4	1	1	6	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	2	2	2
1986	2	1	1	4	4	1	-1	-1	-2	-2	-1	0
1987	0	-2	1	4	5	4	3	2	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	2	3	2	2	2	2	1	1
1993	1	1	0	2	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	3	2	1	0	-1	-2	-3	-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	-4	-3
1998	-4	-4	1	6	6	4	2	-1	-3	-2	-1	-1
1999	-1	-2	0	4	6	6	4	2	2	2	2	2
2000	0	-2	2	6	7	6	3	2	1	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 SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Percent Change in Average Simulated Millerton Release (Head of Reach 1) (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%	11%	11%	8%	5%	4%	5%	5%	6%
1982	5%	2%	2%	7%	5%	4%	3%	-1%	-3%	-3%	-1%	-1%
1983	-2%	-3%	3%	13%	10%	9%	2%	2%	13%	7%	3%	1%
1984	-1%	-4%	0%	14%	14%	12%	8%	3%	1%	1%	2%	0%
1985	-3%	-3%	4%	11%	12%	11%	8%	5%	4%	4%	4%	4%
1986	3%	2%	3%	9%	9%	2%	-1%	-3%	-5%	-4%	-2%	0%
1987	0%	-3%	2%	8%	10%	10%	7%	5%	4%	4%	5%	4%
1988	4%	2%	2%	5%	6%	6%	5%	5%	4%	4%	3%	3%
1989	3%	1%	0%	3%	4%	6%	6%	4%	3%	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%	1%	4%	5%	6%	4%	5%	4%	4%	2%	2%
1993	2%	1%	0%	5%	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%	7%	5%	3%	1%	-2%	-4%	-5%	-1%	1%
1996	0%	-2%	0%	12%	16%	13%	8%	6%	5%	4%	3%	2%
1997	-2%	-2%	4%	13%	8%	7%	4%	0%	-5%	-7%	-6%	-6%
1998	-7%	-6%	2%	12%	14%	8%	4%	-1%	-5%	-3%	-1%	-1%
1999	-2%	-3%	0%	9%	14%	12%	8%	5%	4%	4%	4%	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%	2%	6%	6%	6%	7%

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated Millerton Release (Head of Reach 1) (Deg. F)
No Action (2030)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated Millerton Release (Head of Reach 1) (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	55
1981	56	56	55	53	52	52	51	51	51	52	53	54
1982	56	59	57	53	50	48	47	47	48	50	52	54
1983	55	56	55	51	50	49	49	51	55	54	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	52	52	52
1988	53	54	55	53	50	49	48	49	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	50	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	50	50	51
1993	52	54	57	53	49	47	47	48	50	53	54	56
1994	57	58	57	53	52	50	50	50	50	50	51	52
1995	53	55	55	52	49	47	47	47	48	55	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	51	51	53	54	55
2001	57	59	57	54	52	51	50	50	51	51	52	53
2002	55	57	58	54	51	50	50	50	50	51	52	52
2003	53	55	58	55	52	51	50	51	51	52	53	54

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Change in Average Simulated Millerton Release (Head of Reach 1) (Deg. F)
Alternative1 (2030) - No Action (2030)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Percent Change in Average Simulated Millerton Release (Head of Reach 1) (Deg. F)
From No Action (2030)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated Millerton Release (Head of Reach 1) (Deg. F)
No Action (2030)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated Millerton Release (Head of Reach 1) (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	56	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	55	56	55	51	50	49	49	51	55	54	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	52	52	52
1988	53	54	55	53	50	49	48	49	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	50	50	50
1991	51	52	54	52	51	50	49	50	51	52	53	54
1992	55	57	57	53	51	49	48	49	49	50	50	51
1993	52	54	57	53	49	47	47	48	50	53	54	56
1994	57	58	57	53	52	50	50	50	50	50	51	52
1995	53	54	55	52	49	47	47	47	48	55	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	51	51	53	54	55
2001	57	59	57	55	53	51	50	50	51	51	52	53
2002	55	57	58	54	51	50	50	50	50	51	52	52
2003	53	55	58	55	52	51	50	51	51	52	53	54

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Change in Average Simulated Millerton Release (Head of Reach 1) (Deg. F)
Alternative2 (2030) - No Action (2030)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Percent Change in Average Simulated Millerton Release (Head of Reach 1) (Deg. F)
From No Action (2030)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated Millerton Release (Head of Reach 1) (Deg. F)
No Action (2030)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated Millerton Release (Head of Reach 1) (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	56	56	55	53	52	52	51	51	51	52	53	54
1982	55	57	57	53	50	48	47	47	48	50	52	53
1983	54	55	54	51	50	50	49	51	55	54	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	50	52	53
1987	54	55	55	53	52	52	51	51	51	52	52	52
1988	53	54	55	53	50	49	48	49	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	50	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	50	50	51
1993	52	54	57	53	49	47	47	48	50	53	55	56
1994	57	58	57	53	52	50	50	50	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	55	55
1999	56	56	55	52	52	51	51	51	52	53	55	56
2000	57	59	59	56	53	51	50	51	51	53	54	55
2001	57	58	57	55	52	51	50	50	51	51	52	53
2002	55	57	58	54	51	50	50	50	50	51	52	52
2003	53	56	58	55	52	51	50	50	51	52	53	54

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Change in Average Simulated Millerton Release (Head of Reach 1) (Deg. F)
Alternative3 (2030) - No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					5	3	1	0	-1	-1	0	1
1981	1	0	0	3	5	5	4	2	1	1	1	0
1982	-3	-1	4	7	5	4	2	-1	-2	-3	-1	-1
1983	-2	-2	1	6	5	4	1	2	7	4	2	1
1984	0	-2	0	7	6	5	3	0	-1	0	0	-1
1985	-2	-2	2	5	6	5	4	2	1	1	1	-1
1986	-3	-1	3	7	6	3	0	-1	-2	-2	0	0
1987	-1	-3	0	4	5	5	4	3	3	2	2	0
1988	-3	-4	2	6	5	3	2	1	1	0	-1	-3
1989	-6	-6	1	5	4	3	2	1	0	0	-1	-3
1990	-5	-4	2	5	4	3	1	1	0	0	-1	-3
1991	-7	-6	1	4	4	4	2	0	0	-1	-1	-2
1992	-3	-2	3	5	5	3	1	0	0	0	-1	-3
1993	-7	-5	2	8	5	3	1	0	0	1	3	3
1994	3	1	2	5	5	4	2	1	1	1	0	-1
1995	-4	-2	3	6	5	3	0	-2	-2	1	1	0
1996	0	-2	-1	6	8	6	3	2	2	2	1	1
1997	-1	-1	2	6	4	3	1	-1	-3	-5	-4	-4
1998	-5	-4	1	7	7	5	2	-1	-2	-3	-1	-1
1999	-1	-2	0	4	7	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	1	0	0	-1
2002	-3	-3	4	8	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 SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Percent Change in Average Simulated Millerton Release (Head of Reach 1) (Deg. F)
From No Action (2030)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated Millerton Release (Head of Reach 1) (Deg. F)
No Action (2030)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated Millerton Release (Head of Reach 1) (Deg. F)
Alternative4 (2030)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Change in Average Simulated Millerton Release (Head of Reach 1) (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	3	-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	2	-5
1983	-7	-9	-3	5	4	4	1	2	7	4	3	-1
1984	-2	-4	-2	6	6	5	3	0	2	3	2	-4
1985	-7	-7	-2	4	4	4	3	2	1	2	1	-2
1986	-6	-6	-1	6	6	3	1	1	2	3	2	-4
1987	-6	-9	-6	1	3	4	4	3	2	2	2	-1
1988	-5	-7	-2	5	5	4	3	2	2	1	0	-3
1989	-7	-8	-3	5	5	4	3	1	1	0	0	-3
1990	-6	-7	-2	4	5	4	2	2	1	1	0	-3
1991	-7	-7	-1	4	4	4	3	0	0	1	1	-2
1992	-4	-5	1	5	5	4	2	2	1	1	0	-3
1993	-8	-8	-2	7	6	4	2	1	3	3	3	-2
1994	-4	-6	-2	4	5	4	3	2	1	1	0	-2
1995	-5	-6	-1	5	5	3	0	0	2	4	2	-6
1996	-7	-8	-6	3	7	6	3	2	4	5	4	-2
1997	-5	-7	-1	5	4	3	1	-1	0	-1	-1	-8
1998	-10	-10	-5	3	6	4	2	0	-1	2	2	-5
1999	-6	-7	-3	3	6	5	3	2	2	4	3	-2
2000	-5	-8	-3	4	7	5	3	1	1	2	2	-2
2001	-5	-6	-2	4	5	5	3	2	1	0	0	-3
2002	-6	-8	-2	7	6	5	3	2	1	1	0	-2
2003	-6	-8	-4	4	5	4	3	2	1	1	1	-1

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Percent Change in Average Simulated Millerton Release (Head of Reach 1) (Deg. F)
From No Action (2030)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Gravelly Ford (Head of Reach 2A) (Deg. F)
Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					47	49	53	57	60	71	76	70
1981	64	57	50	47	53	53	57	66	76	78	75	72
1982	63	58	50	46	49	50	50	55	59	71	75	69
1983	62	55	53	46	47	49	51	54	55	61	74	72
1984	64	55	53	47	50	53	54	67	74	79	76	72
1985	63	56	49	45	51	52	57	67	75	77	74	69
1986	64	56	49	48	48	50	53	56	61	73	75	69
1987	63	57	50	47	52	53	64	70	73	75	75	70
1988	66	57	51	47	52	54	60	67	72	78	76	72
1989	65	57	50	46	51	53	58	66	74	78	76	70
1990	65	59	49	47	49	54	64	70	74	80	78	72
1991	67	58	48	47	54	52	57	66	73	80	77	75
1992	69	59	49	45	52	53	62	72	75	76	77	72
1993	67	59	50	50	52	54	55	58	61	72	77	73
1994	66	57	50	49	52	55	62	69	74	79	77	72
1995	65	55	48	51	50	51	52	55	58	62	75	74
1996	66	60	54	51	54	51	56	65	69	79	79	72
1997	65	58	53	47	49	53	55	60	64	75	79	75
1998	66	60	50	51	50	52	54	56	60	64	80	75
1999	64	57	49	47	51	52	54	66	74	78	76	74
2000	66	59	51	50	54	54	56	66	76	77	77	72
2001	65	56	51	49	50	54	56	70	75	78	78	73
2002	67	60	50	49	51	53	58	66	75	79	76	72
2003	65	59	52	51	52	54	55	66	75	79	77	74

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Gravelly Ford (Head of Reach 2A) (Deg. F)
Alternative1 (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					53	54	55	57	60	70	71	66
1981	62	56	51	49	55	56	59	67	72	73	71	68
1982	61	57	53	49	53	53	54	58	59	68	70	65
1983	60	54	52	50	51	52	53	56	59	62	70	67
1984	63	54	53	51	53	56	57	68	70	74	71	68
1985	60	55	51	48	53	55	60	67	72	74	71	66
1986	61	55	51	51	54	56	55	57	60	69	70	65
1987	60	56	51	49	54	56	66	71	72	73	73	68
1988	64	55	52	49	55	56	61	67	72	78	76	71
1989	63	54	49	47	53	55	59	67	73	78	76	70
1990	63	56	48	47	51	56	64	70	74	80	78	71
1991	65	54	47	47	55	54	58	66	73	80	76	74
1992	68	57	49	45	54	56	63	72	75	76	77	72
1993	65	56	49	50	54	56	55	58	60	70	72	68
1994	63	57	52	51	54	57	63	69	74	79	77	71
1995	64	53	48	51	55	57	55	57	59	63	72	69
1996	63	58	54	53	57	58	58	66	67	75	74	68
1997	62	57	53	51	53	55	56	60	62	71	73	69
1998	62	57	52	52	53	57	58	58	62	65	76	70
1999	61	56	50	49	53	55	57	66	71	73	72	70
2000	64	58	53	53	55	57	58	67	72	72	72	68
2001	63	57	54	52	53	57	58	70	74	77	77	72
2002	66	58	50	50	54	55	59	67	75	79	76	72
2003	63	57	51	51	55	56	56	66	73	76	74	72

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Change in Average Simulated SJR Gravelly Ford (Head of Reach 2A) (Deg. F)
Alternative1 (2005) - Existing Conditions (2005)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Percent Change in Average Simulated SJR Gravelly Ford (Head of Reach 2A) (Deg. F)
From Existing Conditions (2005)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Gravelly Ford (Head of Reach 2A) (Deg. F)
Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					47	49	53	57	60	71	76	70
1981	64	57	50	47	53	53	57	66	76	78	75	72
1982	63	58	50	46	49	50	50	55	59	71	75	69
1983	62	55	53	46	47	49	51	54	55	61	74	72
1984	64	55	53	47	50	53	54	67	74	79	76	72
1985	63	56	49	45	51	52	57	67	75	77	74	69
1986	64	56	49	48	48	50	53	56	61	73	75	69
1987	63	57	50	47	52	53	64	70	73	75	75	70
1988	66	57	51	47	52	54	60	67	72	78	76	72
1989	65	57	50	46	51	53	58	66	74	78	76	70
1990	65	59	49	47	49	54	64	70	74	80	78	72
1991	67	58	48	47	54	52	57	66	73	80	77	75
1992	69	59	49	45	52	53	62	72	75	76	77	72
1993	67	59	50	50	52	54	55	58	61	72	77	73
1994	66	57	50	49	52	55	62	69	74	79	77	72
1995	65	55	48	51	50	51	52	55	58	62	75	74
1996	66	60	54	51	54	51	56	65	69	79	79	72
1997	65	58	53	47	49	53	55	60	64	75	79	75
1998	66	60	50	51	50	52	54	56	60	64	80	75
1999	64	57	49	47	51	52	54	66	74	78	76	74
2000	66	59	51	50	54	54	56	66	76	77	77	72
2001	65	56	51	49	50	54	56	70	75	78	78	73
2002	67	60	50	49	51	53	58	66	75	79	76	72
2003	65	59	52	51	52	54	55	66	75	79	77	74

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Gravelly Ford (Head of Reach 2A) (Deg. F)
Alternative2 (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					53	54	55	57	60	69	71	66
1981	61	56	52	50	55	56	59	66	71	72	71	68
1982	60	58	53	49	53	53	54	58	59	69	71	66
1983	61	53	53	50	51	52	53	56	59	62	70	68
1984	63	54	53	51	53	56	57	67	70	73	71	68
1985	60	55	52	48	53	55	59	66	71	72	71	66
1986	60	56	52	52	54	56	55	57	60	69	70	65
1987	60	56	51	49	54	56	65	70	72	73	73	69
1988	63	55	52	49	55	56	61	67	72	78	76	71
1989	63	54	49	47	53	55	59	67	73	78	76	70
1990	63	56	48	47	51	56	64	70	74	80	78	71
1991	65	54	47	47	55	54	58	66	73	80	76	74
1992	68	57	49	45	54	56	63	72	75	76	77	72
1993	65	56	49	50	54	56	55	58	60	69	72	69
1994	63	57	52	51	54	57	63	69	74	79	77	72
1995	64	53	48	51	55	57	55	57	59	63	72	69
1996	62	57	54	53	57	57	58	66	67	74	74	68
1997	61	57	53	51	53	55	56	60	62	70	73	69
1998	61	57	53	53	53	56	58	58	62	66	77	72
1999	62	56	50	49	53	55	57	65	70	72	72	70
2000	63	58	54	53	55	57	58	66	72	71	72	68
2001	62	57	54	52	53	57	58	70	74	77	77	72
2002	65	58	51	50	54	55	59	67	75	79	76	72
2003	63	57	51	51	55	56	56	66	72	75	74	72

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Change in Average Simulated SJR Gravelly Ford (Head of Reach 2A) (Deg. F)
Alternative2 (2005) - Existing Conditions (2005)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Percent Change in Average Simulated SJR Gravelly Ford (Head of Reach 2A) (Deg. F)
From Existing Conditions (2005)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Gravelly Ford (Head of Reach 2A) (Deg. F)
Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					47	49	53	57	60	71	76	70
1981	64	57	50	47	53	53	57	66	76	78	75	72
1982	63	58	50	46	49	50	50	55	59	71	75	69
1983	62	55	53	46	47	49	51	54	55	61	74	72
1984	64	55	53	47	50	53	54	67	74	79	76	72
1985	63	56	49	45	51	52	57	67	75	77	74	69
1986	64	56	49	48	48	50	53	56	61	73	75	69
1987	63	57	50	47	52	53	64	70	73	75	75	70
1988	66	57	51	47	52	54	60	67	72	78	76	72
1989	65	57	50	46	51	53	58	66	74	78	76	70
1990	65	59	49	47	49	54	64	70	74	80	78	72
1991	67	58	48	47	54	52	57	66	73	80	77	75
1992	69	59	49	45	52	53	62	72	75	76	77	72
1993	67	59	50	50	52	54	55	58	61	72	77	73
1994	66	57	50	49	52	55	62	69	74	79	77	72
1995	65	55	48	51	50	51	52	55	58	62	75	74
1996	66	60	54	51	54	51	56	65	69	79	79	72
1997	65	58	53	47	49	53	55	60	64	75	79	75
1998	66	60	50	51	50	52	54	56	60	64	80	75
1999	64	57	49	47	51	52	54	66	74	78	76	74
2000	66	59	51	50	54	54	56	66	76	77	77	72
2001	65	56	51	49	50	54	56	70	75	78	78	73
2002	67	60	50	49	51	53	58	66	75	79	76	72
2003	65	59	52	51	52	54	55	66	75	79	77	74

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Gravelly Ford (Head of Reach 2A) (Deg. F)
Alternative3 (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					53	53	53	56	59	69	72	69
1981	64	57	52	50	55	56	58	66	72	73	72	71
1982	62	57	53	49	53	53	53	56	59	71	75	69
1983	62	54	51	50	51	52	53	56	59	62	74	72
1984	64	54	53	51	53	56	55	65	69	74	72	71
1985	62	55	52	49	54	55	59	66	73	74	72	68
1986	62	55	52	52	54	56	53	56	60	68	71	67
1987	62	56	51	50	54	56	66	71	74	76	75	70
1988	65	55	52	50	54	56	59	67	72	78	76	71
1989	63	54	51	50	53	55	59	67	73	78	76	70
1990	63	56	51	51	51	56	64	70	74	80	78	71
1991	65	55	49	50	55	54	58	66	73	80	76	74
1992	68	57	52	49	54	55	62	72	75	76	77	72
1993	65	56	52	52	54	55	53	57	60	70	74	72
1994	66	58	53	52	53	57	62	69	74	79	77	71
1995	64	53	51	52	54	56	53	56	59	64	73	73
1996	65	59	54	53	57	57	56	62	68	74	75	71
1997	64	57	53	51	53	54	54	59	62	70	75	73
1998	64	58	52	53	53	56	56	57	61	73	80	75
1999	64	56	51	50	53	55	56	65	71	74	74	73
2000	66	59	54	54	55	56	57	65	73	72	74	71
2001	64	56	54	52	53	56	57	70	75	77	77	73
2002	66	58	53	52	54	55	58	66	75	79	76	72
2003	63	57	54	54	55	56	55	65	74	77	76	74

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Change in Average Simulated SJR Gravelly Ford (Head of Reach 2A) (Deg. F)
Alternative3 (2005) - Existing Conditions (2005)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Percent Change in Average Simulated SJR Gravelly Ford (Head of Reach 2A) (Deg. F)
From Existing Conditions (2005)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Gravelly Ford (Head of Reach 2A) (Deg. F)
Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					47	49	53	57	60	71	76	70
1981	64	57	50	47	53	53	57	66	76	78	75	72
1982	63	58	50	46	49	50	50	55	59	71	75	69
1983	62	55	53	46	47	49	51	54	55	61	74	72
1984	64	55	53	47	50	53	54	67	74	79	76	72
1985	63	56	49	45	51	52	57	67	75	77	74	69
1986	64	56	49	48	48	50	53	56	61	73	75	69
1987	63	57	50	47	52	53	64	70	73	75	75	70
1988	66	57	51	47	52	54	60	67	72	78	76	72
1989	65	57	50	46	51	53	58	66	74	78	76	70
1990	65	59	49	47	49	54	64	70	74	80	78	72
1991	67	58	48	47	54	52	57	66	73	80	77	75
1992	69	59	49	45	52	53	62	72	75	76	77	72
1993	67	59	50	50	52	54	55	58	61	72	77	73
1994	66	57	50	49	52	55	62	69	74	79	77	72
1995	65	55	48	51	50	51	52	55	58	62	75	74
1996	66	60	54	51	54	51	56	65	69	79	79	72
1997	65	58	53	47	49	53	55	60	64	75	79	75
1998	66	60	50	51	50	52	54	56	60	64	80	75
1999	64	57	49	47	51	52	54	66	74	78	76	74
2000	66	59	51	50	54	54	56	66	76	77	77	72
2001	65	56	51	49	50	54	56	70	75	78	78	73
2002	67	60	50	49	51	53	58	66	75	79	76	72
2003	65	59	52	51	52	54	55	66	75	79	77	74

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Gravelly Ford (Head of Reach 2A) (Deg. F)
Alternative4 (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					53	53	55	58	61	69	71	65
1981	59	52	48	48	54	55	59	66	71	72	71	68
1982	59	53	49	48	52	53	55	58	62	70	73	65
1983	58	50	51	50	51	52	53	56	59	62	71	68
1984	62	53	51	51	53	56	56	66	69	73	71	67
1985	59	52	49	47	53	54	59	66	71	72	70	66
1986	60	52	48	51	54	56	55	58	63	70	71	64
1987	58	52	47	48	53	55	65	71	74	75	75	70
1988	64	53	49	47	54	56	62	68	73	78	76	71
1989	63	53	48	46	53	56	59	67	74	78	76	70
1990	63	55	47	47	51	56	65	70	74	80	78	71
1991	65	54	46	46	55	54	59	67	73	80	77	74
1992	68	56	48	45	54	56	63	72	75	76	77	72
1993	65	54	48	50	54	56	56	58	62	70	72	67
1994	61	52	48	50	53	57	63	69	74	79	77	71
1995	63	52	47	51	55	57	56	58	61	64	72	68
1996	60	54	51	51	56	57	58	64	67	74	74	68
1997	61	54	51	51	53	55	56	60	64	71	73	69
1998	60	54	48	51	53	56	57	58	64	66	78	71
1999	60	53	48	48	53	55	56	65	69	72	72	69
2000	62	55	50	51	55	57	58	65	71	71	72	67
2001	61	52	50	50	53	57	58	70	74	76	76	72
2002	64	56	49	49	54	56	59	67	75	79	77	72
2003	63	55	50	50	54	57	57	65	71	73	73	71

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Change in Average Simulated SJR Gravelly Ford (Head of Reach 2A) (Deg. F)
Alternative4 (2005) - Existing Conditions (2005)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Percent Change in Average Simulated SJR Gravelly Ford (Head of Reach 2A) (Deg. F)
From Existing Conditions (2005)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Gravelly Ford (Head of Reach 2A) (Deg. F)
Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					47	49	53	57	60	71	76	70
1981	64	57	50	47	53	53	57	66	76	78	75	72
1982	63	58	50	46	49	50	50	55	59	71	75	69
1983	62	55	53	46	47	49	51	54	55	61	74	72
1984	64	55	53	47	50	53	54	67	74	79	76	72
1985	63	56	49	45	51	52	57	67	75	77	74	69
1986	64	56	49	48	48	50	53	56	61	73	75	69
1987	63	57	50	47	52	53	64	70	73	75	75	70
1988	66	57	51	47	52	54	60	67	72	78	76	72
1989	65	57	50	46	51	53	58	66	74	78	76	70
1990	65	59	49	47	49	54	64	70	74	80	78	72
1991	67	58	48	47	54	52	57	66	73	80	77	75
1992	69	59	49	45	52	53	62	72	75	76	77	72
1993	67	59	50	50	52	54	55	58	61	72	77	73
1994	66	57	50	49	52	55	62	69	74	79	77	72
1995	65	55	48	51	50	51	52	55	58	62	75	74
1996	66	60	54	51	54	51	56	65	69	79	79	72
1997	65	58	53	47	49	53	55	60	64	75	79	75
1998	66	60	50	51	50	52	54	56	60	64	80	75
1999	64	57	49	47	51	52	54	66	74	78	76	74
2000	66	59	51	50	54	54	56	66	76	77	77	72
2001	65	56	51	49	50	54	56	70	75	78	78	73
2002	67	60	50	49	51	53	58	66	75	79	76	72
2003	65	59	52	51	52	54	55	66	75	79	77	74

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Gravelly Ford (Head of Reach 2A) (Deg. F)
Alternative5 (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					53	53	53	56	59	68	71	68
1981	64	56	52	50	55	56	58	65	71	71	71	71
1982	64	58	52	48	51	51	52	57	60	72	75	69
1983	62	54	51	48	51	52	53	56	59	62	72	72
1984	64	54	53	51	53	56	55	64	68	73	72	71
1985	62	55	52	49	53	55	58	65	70	71	70	68
1986	64	57	52	51	53	55	52	56	60	68	70	67
1987	62	57	52	51	54	56	64	68	69	69	71	69
1988	66	58	53	49	53	55	59	67	73	78	76	72
1989	65	58	52	48	51	55	60	67	74	78	76	70
1990	65	59	51	49	50	55	64	71	75	81	79	72
1991	67	58	50	49	54	54	58	67	74	80	77	75
1992	70	60	51	47	53	55	62	72	75	76	78	72
1993	67	60	51	50	52	55	54	58	61	69	72	71
1994	66	58	53	52	53	56	61	66	68	71	72	70
1995	65	56	50	51	53	55	53	57	59	70	74	72
1996	65	59	54	53	57	57	57	62	68	73	74	71
1997	64	57	53	51	53	55	54	59	62	70	74	72
1998	64	58	52	53	53	56	56	57	61	69	80	75
1999	64	56	51	50	53	55	56	64	69	71	72	73
2000	66	58	54	54	55	57	57	64	71	70	72	70
2001	64	56	54	52	53	56	57	67	69	71	73	72
2002	67	61	53	50	52	54	58	66	74	77	75	72
2003	65	60	54	52	53	54	55	64	70	72	72	73

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Change in Average Simulated SJR Gravelly Ford (Head of Reach 2A) (Deg. F)
Alternative5 (2005) - Existing Conditions (2005)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Percent Change in Average Simulated SJR Gravelly Ford (Head of Reach 2A) (Deg. F)
From Existing Conditions (2005)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Gravelly Ford (Head of Reach 2A) (Deg. F)
No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					46	48	51	54	57	69	74	68
1981	63	56	51	48	51	51	54	64	73	75	73	70
1982	62	57	51	45	48	49	49	53	57	69	73	67
1983	61	55	52	45	46	48	50	53	53	59	71	69
1984	62	54	53	46	49	51	51	63	70	76	74	71
1985	62	55	50	45	50	50	55	64	72	75	72	67
1986	62	55	50	48	47	49	51	55	58	70	73	67
1987	61	56	51	48	51	52	62	68	71	72	73	68
1988	64	56	51	46	50	52	56	64	70	75	74	70
1989	63	57	51	47	49	52	56	64	71	75	73	68
1990	63	58	50	48	48	52	61	68	71	77	76	70
1991	65	57	49	47	52	51	55	64	70	77	74	72
1992	68	58	50	46	51	52	59	69	72	73	75	70
1993	66	58	51	49	51	52	51	55	59	70	74	70
1994	64	56	51	49	50	53	59	66	71	76	75	70
1995	63	54	49	50	50	50	50	53	57	60	73	72
1996	64	58	54	50	53	51	52	60	66	75	77	70
1997	63	57	52	47	48	51	52	58	62	73	77	73
1998	65	59	51	50	50	51	52	54	58	62	77	73
1999	62	56	50	47	49	50	52	63	71	76	74	72
2000	65	59	52	50	52	53	53	63	74	74	75	69
2001	63	55	51	49	49	52	54	67	72	75	75	71
2002	65	59	51	47	49	51	55	63	72	76	74	70
2003	63	58	53	50	51	52	53	63	72	76	75	72

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Gravelly Ford (Head of Reach 2A) (Deg. F)
Alternative1 (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					53	53	53	56	59	69	71	66
1981	62	56	53	51	55	56	58	67	73	74	72	69
1982	61	58	54	50	53	53	53	56	59	68	70	65
1983	61	54	51	49	51	52	53	56	59	62	70	67
1984	63	54	53	51	53	56	55	66	69	74	71	68
1985	60	55	53	50	54	55	59	67	73	74	72	67
1986	61	55	52	52	54	56	53	56	60	68	70	65
1987	61	56	52	51	54	56	66	71	74	76	75	70
1988	65	55	52	50	54	56	59	67	72	78	76	71
1989	63	54	51	50	53	55	59	67	73	78	76	70
1990	63	56	51	51	51	56	64	70	74	80	78	71
1991	65	55	49	50	55	54	58	66	73	80	76	74
1992	68	57	52	49	54	55	62	72	75	76	77	72
1993	65	56	52	52	54	56	53	57	60	70	72	69
1994	64	58	54	52	54	57	62	69	74	79	77	71
1995	64	53	51	52	54	56	53	56	59	63	72	69
1996	63	58	54	53	57	57	56	63	68	74	74	68
1997	62	57	54	51	53	55	54	59	62	70	73	69
1998	62	57	53	53	53	56	56	57	61	69	76	70
1999	61	56	51	50	53	55	56	66	71	74	72	70
2000	64	59	55	54	55	56	57	65	73	73	73	68
2001	63	57	54	53	53	56	57	70	75	78	77	73
2002	66	58	53	52	54	55	58	66	75	79	76	72
2003	64	57	54	54	55	56	56	66	74	77	75	73

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Change in Average Simulated SJR Gravelly Ford (Head of Reach 2A) (Deg. F)
Alternative1 (2030) - No Action (2030)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Percent Change in Average Simulated SJR Gravelly Ford (Head of Reach 2A) (Deg. F)
From No Action (2030)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Gravelly Ford (Head of Reach 2A) (Deg. F)
No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					46	48	51	54	57	69	74	68
1981	63	56	51	48	51	51	54	64	73	75	73	70
1982	62	57	51	45	48	49	49	53	57	69	73	67
1983	61	55	52	45	46	48	50	53	53	59	71	69
1984	62	54	53	46	49	51	51	63	70	76	74	71
1985	62	55	50	45	50	50	55	64	72	75	72	67
1986	62	55	50	48	47	49	51	55	58	70	73	67
1987	61	56	51	48	51	52	62	68	71	72	73	68
1988	64	56	51	46	50	52	56	64	70	75	74	70
1989	63	57	51	47	49	52	56	64	71	75	73	68
1990	63	58	50	48	48	52	61	68	71	77	76	70
1991	65	57	49	47	52	51	55	64	70	77	74	72
1992	68	58	50	46	51	52	59	69	72	73	75	70
1993	66	58	51	49	51	52	51	55	59	70	74	70
1994	64	56	51	49	50	53	59	66	71	76	75	70
1995	63	54	49	50	50	50	50	53	57	60	73	72
1996	64	58	54	50	53	51	52	60	66	75	77	70
1997	63	57	52	47	48	51	52	58	62	73	77	73
1998	65	59	51	50	50	51	52	54	58	62	77	73
1999	62	56	50	47	49	50	52	63	71	76	74	72
2000	65	59	52	50	52	53	53	63	74	74	75	69
2001	63	55	51	49	49	52	54	67	72	75	75	71
2002	65	59	51	47	49	51	55	63	72	76	74	70
2003	63	58	53	50	51	52	53	63	72	76	75	72

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Gravelly Ford (Head of Reach 2A) (Deg. F)
Alternative2 (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					53	53	53	56	59	69	72	67
1981	62	56	53	51	55	56	58	66	72	73	72	69
1982	61	58	54	50	53	53	53	56	59	68	71	66
1983	61	54	51	49	51	52	53	56	59	62	70	68
1984	63	54	53	51	53	56	55	65	69	74	72	69
1985	60	56	53	50	54	55	59	66	72	74	72	66
1986	61	55	53	52	54	56	53	56	60	68	71	65
1987	60	56	52	51	54	56	66	71	74	76	75	70
1988	65	55	52	50	54	56	59	67	72	78	76	71
1989	63	54	51	50	53	55	59	67	73	78	76	70
1990	63	56	51	51	51	56	64	70	74	80	78	71
1991	65	55	49	50	55	54	58	66	73	80	76	74
1992	68	57	52	49	54	55	62	72	75	76	77	72
1993	65	56	52	52	54	55	53	57	60	70	73	69
1994	64	58	54	52	54	57	62	69	74	79	77	71
1995	64	53	51	52	54	56	53	56	59	63	72	70
1996	63	58	54	53	57	57	56	63	68	74	75	69
1997	62	57	54	51	53	55	54	59	62	70	74	70
1998	62	57	53	53	53	56	56	57	61	69	77	71
1999	61	56	51	50	53	55	56	65	71	74	73	71
2000	64	59	55	54	55	56	57	65	72	72	73	68
2001	62	57	55	53	53	56	57	70	75	77	77	73
2002	66	58	53	52	54	55	58	66	75	79	76	72
2003	64	57	54	54	55	56	56	66	74	77	75	73

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Change in Average Simulated SJR Gravelly Ford (Head of Reach 2A) (Deg. F)
Alternative2 (2030) - No Action (2030)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Percent Change in Average Simulated SJR Gravelly Ford (Head of Reach 2A) (Deg. F)
From No Action (2030)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Gravelly Ford (Head of Reach 2A) (Deg. F)
No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					46	48	51	54	57	69	74	68
1981	63	56	51	48	51	51	54	64	73	75	73	70
1982	62	57	51	45	48	49	49	53	57	69	73	67
1983	61	55	52	45	46	48	50	53	53	59	71	69
1984	62	54	53	46	49	51	51	63	70	76	74	71
1985	62	55	50	45	50	50	55	64	72	75	72	67
1986	62	55	50	48	47	49	51	55	58	70	73	67
1987	61	56	51	48	51	52	62	68	71	72	73	68
1988	64	56	51	46	50	52	56	64	70	75	74	70
1989	63	57	51	47	49	52	56	64	71	75	73	68
1990	63	58	50	48	48	52	61	68	71	77	76	70
1991	65	57	49	47	52	51	55	64	70	77	74	72
1992	68	58	50	46	51	52	59	69	72	73	75	70
1993	66	58	51	49	51	52	51	55	59	70	74	70
1994	64	56	51	49	50	53	59	66	71	76	75	70
1995	63	54	49	50	50	50	50	53	57	60	73	72
1996	64	58	54	50	53	51	52	60	66	75	77	70
1997	63	57	52	47	48	51	52	58	62	73	77	73
1998	65	59	51	50	50	51	52	54	58	62	77	73
1999	62	56	50	47	49	50	52	63	71	76	74	72
2000	65	59	52	50	52	53	53	63	74	74	75	69
2001	63	55	51	49	49	52	54	67	72	75	75	71
2002	65	59	51	47	49	51	55	63	72	76	74	70
2003	63	58	53	50	51	52	53	63	72	76	75	72

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Gravelly Ford (Head of Reach 2A) (Deg. F)
Alternative3 (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					53	53	53	56	59	69	72	69
1981	64	57	52	50	55	56	58	66	72	73	72	71
1982	62	57	53	49	53	53	53	56	59	71	75	69
1983	62	54	51	50	51	52	53	56	59	62	74	72
1984	64	54	53	51	53	56	55	65	69	74	72	71
1985	62	55	52	49	54	55	59	66	73	74	72	68
1986	62	55	52	52	54	56	53	56	60	68	71	67
1987	62	56	51	50	54	56	66	71	74	76	75	70
1988	65	55	52	50	54	56	59	67	72	78	76	71
1989	63	54	51	50	53	55	59	67	73	78	76	70
1990	63	56	51	51	51	56	64	70	74	80	78	71
1991	65	55	49	50	55	54	58	66	73	80	76	74
1992	68	57	52	49	54	55	62	72	75	76	77	72
1993	65	56	52	52	54	55	53	57	60	70	74	72
1994	66	58	53	52	53	57	62	69	74	79	77	71
1995	64	53	51	52	54	56	53	56	59	64	73	73
1996	65	59	54	53	57	57	56	62	68	74	75	71
1997	64	57	53	51	53	54	54	59	62	70	75	73
1998	64	58	52	53	53	56	56	57	61	73	80	75
1999	64	56	51	50	53	55	56	65	71	74	74	73
2000	66	59	54	54	55	56	57	65	73	72	74	71
2001	64	56	54	52	53	56	57	70	75	77	77	73
2002	66	58	53	52	54	55	58	66	75	79	76	72
2003	63	57	54	54	55	56	55	65	74	77	76	74

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Change in Average Simulated SJR Gravelly Ford (Head of Reach 2A) (Deg. F)
Alternative3 (2030) - No Action (2030)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Percent Change in Average Simulated SJR Gravelly Ford (Head of Reach 2A) (Deg. F)
From No Action (2030)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Gravelly Ford (Head of Reach 2A) (Deg. F)
No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					46	48	51	54	57	69	74	68
1981	63	56	51	48	51	51	54	64	73	75	73	70
1982	62	57	51	45	48	49	49	53	57	69	73	67
1983	61	55	52	45	46	48	50	53	53	59	71	69
1984	62	54	53	46	49	51	51	63	70	76	74	71
1985	62	55	50	45	50	50	55	64	72	75	72	67
1986	62	55	50	48	47	49	51	55	58	70	73	67
1987	61	56	51	48	51	52	62	68	71	72	73	68
1988	64	56	51	46	50	52	56	64	70	75	74	70
1989	63	57	51	47	49	52	56	64	71	75	73	68
1990	63	58	50	48	48	52	61	68	71	77	76	70
1991	65	57	49	47	52	51	55	64	70	77	74	72
1992	68	58	50	46	51	52	59	69	72	73	75	70
1993	66	58	51	49	51	52	51	55	59	70	74	70
1994	64	56	51	49	50	53	59	66	71	76	75	70
1995	63	54	49	50	50	50	50	53	57	60	73	72
1996	64	58	54	50	53	51	52	60	66	75	77	70
1997	63	57	52	47	48	51	52	58	62	73	77	73
1998	65	59	51	50	50	51	52	54	58	62	77	73
1999	62	56	50	47	49	50	52	63	71	76	74	72
2000	65	59	52	50	52	53	53	63	74	74	75	69
2001	63	55	51	49	49	52	54	67	72	75	75	71
2002	65	59	51	47	49	51	55	63	72	76	74	70
2003	63	58	53	50	51	52	53	63	72	76	75	72

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Gravelly Ford (Head of Reach 2A) (Deg. F)
Alternative4 (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					53	53	53	57	61	70	72	66
1981	60	52	49	49	54	55	58	65	71	72	71	68
1982	59	53	50	49	53	53	53	57	61	71	73	65
1983	59	50	50	49	51	52	53	56	59	62	71	69
1984	62	53	51	51	53	56	55	64	69	73	72	68
1985	59	52	49	48	53	54	58	66	72	73	71	66
1986	61	52	50	51	54	56	53	57	62	70	71	64
1987	58	52	48	48	53	55	65	71	74	76	75	70
1988	64	54	50	49	54	56	60	67	72	78	76	71
1989	63	53	49	49	53	56	60	67	74	78	76	70
1990	63	55	49	50	51	56	65	71	75	80	78	71
1991	65	54	48	50	55	54	58	66	73	80	77	74
1992	68	56	51	49	54	56	63	72	75	76	77	72
1993	65	55	49	51	54	56	54	58	62	69	72	68
1994	62	53	50	51	53	57	62	69	74	79	77	71
1995	63	52	48	52	54	56	54	57	61	64	72	69
1996	61	54	51	51	56	57	56	62	68	73	74	68
1997	61	54	51	51	53	54	54	59	63	71	74	69
1998	60	54	49	51	53	56	55	57	62	68	78	71
1999	60	53	49	49	53	55	56	65	69	73	72	70
2000	62	55	51	53	55	56	57	65	71	71	72	68
2001	61	52	51	51	53	57	58	70	75	78	78	73
2002	65	56	50	51	54	55	58	66	75	79	77	72
2003	63	55	51	52	55	57	56	66	74	76	75	73

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Change in Average Simulated SJR Gravelly Ford (Head of Reach 2A) (Deg. F)
Alternative4 (2030) - No Action (2030)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Percent Change in Average Simulated SJR Gravelly Ford (Head of Reach 2A) (Deg. F)
From No Action (2030)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Chowchilla Control Structure (Head of Reach 2B) (Deg. F)
Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					48	51	57	61	64	75	80	74
1981	67	57	50	47	55	55	60	71	80	83	80	76
1982	65	58	49	46	51	52	52	58	62	76	80	72
1983	65	55	52	46	48	50	52	57	57	64	79	76
1984	68	56	53	48	52	56	57	72	78	84	80	77
1985	65	56	49	45	53	54	61	71	80	82	79	72
1986	66	56	48	50	49	52	56	59	65	78	79	72
1987	65	58	49	47	54	56	68	74	78	79	79	75
1988	69	57	51	47	55	57	64	71	77	83	81	76
1989	68	57	50	47	52	56	62	71	78	82	81	74
1990	67	59	48	48	51	57	68	74	78	84	82	76
1991	70	58	47	48	56	54	60	70	77	84	80	79
1992	72	59	49	45	54	56	66	76	79	80	82	77
1993	70	59	49	50	54	57	58	62	66	77	81	77
1994	69	58	50	50	53	58	66	73	78	84	82	76
1995	68	55	48	52	52	53	54	58	61	65	80	78
1996	69	61	54	52	56	54	59	69	74	84	84	76
1997	67	58	53	48	50	57	59	64	69	80	83	79
1998	68	60	50	52	50	54	56	58	63	67	85	79
1999	66	57	48	47	53	54	57	70	79	83	81	79
2000	70	60	50	51	55	56	60	70	81	81	82	76
2001	67	55	51	50	52	57	59	75	79	82	82	78
2002	70	61	50	49	53	55	62	71	79	84	81	76
2003	68	59	52	52	54	57	57	70	80	84	81	78

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Chowchilla Control Structure (Head of Reach 2B) (Deg. F)
Alternative1 (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					54	56	58	61	64	75	76	70
1981	65	56	51	49	56	57	62	71	78	79	76	73
1982	63	57	52	48	54	55	57	62	64	74	76	69
1983	63	54	52	50	52	53	55	58	61	65	75	72
1984	67	55	52	51	54	59	59	72	75	80	76	73
1985	62	55	50	47	54	57	63	72	78	79	76	70
1986	64	55	50	51	55	58	58	61	65	75	75	69
1987	63	56	50	49	55	58	70	75	77	78	78	73
1988	67	56	51	48	56	59	65	71	77	83	81	76
1989	67	55	49	47	54	58	63	71	78	82	81	74
1990	66	57	48	48	52	58	68	74	78	84	82	75
1991	68	55	46	48	57	55	61	70	77	84	80	79
1992	72	58	48	45	55	58	67	76	79	80	82	77
1993	69	57	49	50	55	59	59	62	65	75	77	73
1994	66	57	51	51	55	60	67	73	78	84	82	76
1995	67	53	48	52	56	58	58	61	63	66	76	74
1996	66	59	53	52	58	60	61	70	72	80	79	72
1997	65	57	53	52	54	58	60	64	67	76	79	74
1998	65	58	51	53	54	58	60	61	66	69	81	75
1999	64	56	49	49	54	57	59	70	76	79	77	75
2000	67	59	52	53	56	59	61	71	78	78	78	72
2001	65	56	53	51	53	59	61	75	79	82	82	77
2002	69	59	50	50	55	57	63	71	79	84	81	76
2003	67	58	51	52	56	58	58	70	78	82	79	77

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Change in Average Simulated SJR Below Chowchilla Control Structure (Head of Reach 2B) (Deg. F) Alternative1 (2005) - Existing Conditions (2005)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Percent Change in Average Simulated SJR Below Chowchilla Control Structure (Head of Reach 2B) (Deg. F) From Existing Conditions (2005)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Chowchilla Control Structure (Head of Reach 2B) (Deg. F)
Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					48	51	57	61	64	75	80	74
1981	67	57	50	47	55	55	60	71	80	83	80	76
1982	65	58	49	46	51	52	52	58	62	76	80	72
1983	65	55	52	46	48	50	52	57	57	64	79	76
1984	68	56	53	48	52	56	57	72	78	84	80	77
1985	65	56	49	45	53	54	61	71	80	82	79	72
1986	66	56	48	50	49	52	56	59	65	78	79	72
1987	65	58	49	47	54	56	68	74	78	79	79	75
1988	69	57	51	47	55	57	64	71	77	83	81	76
1989	68	57	50	47	52	56	62	71	78	82	81	74
1990	67	59	48	48	51	57	68	74	78	84	82	76
1991	70	58	47	48	56	54	60	70	77	84	80	79
1992	72	59	49	45	54	56	66	76	79	80	82	77
1993	70	59	49	50	54	57	58	62	66	77	81	77
1994	69	58	50	50	53	58	66	73	78	84	82	76
1995	68	55	48	52	52	53	54	58	61	65	80	78
1996	69	61	54	52	56	54	59	69	74	84	84	76
1997	67	58	53	48	50	57	59	64	69	80	83	79
1998	68	60	50	52	50	54	56	58	63	67	85	79
1999	66	57	48	47	53	54	57	70	79	83	81	79
2000	70	60	50	51	55	56	60	70	81	81	82	76
2001	67	55	51	50	52	57	59	75	79	82	82	78
2002	70	61	50	49	53	55	62	71	79	84	81	76
2003	68	59	52	52	54	57	57	70	80	84	81	78

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Chowchilla Control Structure (Head of Reach 2B) (Deg. F)
Alternative2 (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					54	56	58	61	64	74	76	70
1981	64	56	51	49	56	57	62	70	77	78	76	73
1982	62	58	52	48	54	55	57	62	64	75	77	70
1983	63	54	52	50	52	53	55	58	61	65	75	73
1984	67	55	52	51	54	59	59	72	75	79	76	73
1985	62	55	51	47	54	57	63	71	77	78	76	70
1986	63	56	51	52	55	58	58	61	65	74	76	69
1987	62	56	50	49	55	58	69	74	77	78	78	73
1988	67	55	51	48	56	59	65	71	77	83	81	76
1989	67	55	49	47	54	58	63	71	78	82	81	74
1990	66	57	48	48	52	58	68	74	78	84	82	75
1991	68	55	46	48	57	55	61	70	77	84	80	79
1992	72	58	48	45	55	58	67	76	79	80	82	77
1993	69	57	49	50	55	58	58	62	65	75	77	73
1994	66	57	52	51	54	60	67	73	78	84	82	76
1995	67	53	48	52	56	58	58	61	63	66	77	74
1996	65	59	53	52	58	59	61	70	72	80	80	73
1997	64	57	53	52	54	58	59	64	67	76	79	74
1998	64	58	52	53	54	58	60	61	66	70	82	76
1999	64	56	49	48	54	57	59	69	75	78	77	75
2000	66	59	53	53	56	58	61	70	77	77	78	72
2001	64	57	53	51	53	59	61	75	79	81	81	77
2002	69	59	50	50	55	57	63	71	79	84	81	76
2003	67	58	51	52	56	58	58	70	77	81	79	76

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Change in Average Simulated SJR Below Chowchilla Control Structure (Head of Reach 2B) (Deg. F) Alternative2 (2005) - Existing Conditions (2005)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Percent Change in Average Simulated SJR Below Chowchilla Control Structure (Head of Reach 2B) (Deg. F) From Existing Conditions (2005)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Chowchilla Control Structure (Head of Reach 2B) (Deg. F)
Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					48	51	57	61	64	75	80	74
1981	67	57	50	47	55	55	60	71	80	83	80	76
1982	65	58	49	46	51	52	52	58	62	76	80	72
1983	65	55	52	46	48	50	52	57	57	64	79	76
1984	68	56	53	48	52	56	57	72	78	84	80	77
1985	65	56	49	45	53	54	61	71	80	82	79	72
1986	66	56	48	50	49	52	56	59	65	78	79	72
1987	65	58	49	47	54	56	68	74	78	79	79	75
1988	69	57	51	47	55	57	64	71	77	83	81	76
1989	68	57	50	47	52	56	62	71	78	82	81	74
1990	67	59	48	48	51	57	68	74	78	84	82	76
1991	70	58	47	48	56	54	60	70	77	84	80	79
1992	72	59	49	45	54	56	66	76	79	80	82	77
1993	70	59	49	50	54	57	58	62	66	77	81	77
1994	69	58	50	50	53	58	66	73	78	84	82	76
1995	68	55	48	52	52	53	54	58	61	65	80	78
1996	69	61	54	52	56	54	59	69	74	84	84	76
1997	67	58	53	48	50	57	59	64	69	80	83	79
1998	68	60	50	52	50	54	56	58	63	67	85	79
1999	66	57	48	47	53	54	57	70	79	83	81	79
2000	70	60	50	51	55	56	60	70	81	81	82	76
2001	67	55	51	50	52	57	59	75	79	82	82	78
2002	70	61	50	49	53	55	62	71	79	84	81	76
2003	68	59	52	52	54	57	57	70	80	84	81	78

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Chowchilla Control Structure (Head of Reach 2B) (Deg. F)
Alternative3 (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					54	55	56	59	63	74	77	73
1981	67	57	51	50	56	57	61	70	78	79	77	75
1982	64	57	52	49	54	54	55	60	63	76	79	72
1983	65	54	50	49	52	53	55	58	61	65	78	76
1984	68	55	52	51	54	58	57	69	74	80	78	76
1985	64	55	51	48	55	57	62	70	78	80	77	72
1986	65	55	51	52	54	58	56	60	64	74	77	71
1987	65	57	50	49	55	58	69	75	78	80	80	75
1988	69	56	51	50	56	59	63	71	77	83	81	76
1989	67	55	50	49	54	58	63	71	78	82	81	74
1990	66	57	50	50	52	58	68	75	78	84	82	75
1991	69	56	48	50	57	55	61	70	77	84	80	79
1992	72	58	51	48	55	58	66	76	79	80	82	77
1993	69	57	50	52	55	58	56	61	65	75	78	76
1994	69	58	52	52	54	59	66	73	78	84	82	76
1995	67	54	49	53	56	58	56	60	63	67	78	77
1996	69	60	54	53	58	59	59	66	74	80	81	75
1997	67	58	53	51	54	57	57	63	66	76	80	77
1998	67	59	51	53	54	58	58	60	65	78	85	79
1999	66	57	50	49	54	57	58	69	76	79	78	78
2000	70	59	53	53	56	58	59	69	78	78	79	75
2001	67	56	53	52	53	59	60	75	79	82	82	78
2002	69	59	52	51	55	57	61	70	79	84	81	76
2003	67	58	53	54	56	58	58	69	79	82	80	78

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Change in Average Simulated SJR Below Chowchilla Control Structure (Head of Reach 2B) (Deg. F) Alternative3 (2005) - Existing Conditions (2005)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Percent Change in Average Simulated SJR Below Chowchilla Control Structure (Head of Reach 2B) (Deg. F) From Existing Conditions (2005)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Chowchilla Control Structure (Head of Reach 2B) (Deg. F)
Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					48	51	57	61	64	75	80	74
1981	67	57	50	47	55	55	60	71	80	83	80	76
1982	65	58	49	46	51	52	52	58	62	76	80	72
1983	65	55	52	46	48	50	52	57	57	64	79	76
1984	68	56	53	48	52	56	57	72	78	84	80	77
1985	65	56	49	45	53	54	61	71	80	82	79	72
1986	66	56	48	50	49	52	56	59	65	78	79	72
1987	65	58	49	47	54	56	68	74	78	79	79	75
1988	69	57	51	47	55	57	64	71	77	83	81	76
1989	68	57	50	47	52	56	62	71	78	82	81	74
1990	67	59	48	48	51	57	68	74	78	84	82	76
1991	70	58	47	48	56	54	60	70	77	84	80	79
1992	72	59	49	45	54	56	66	76	79	80	82	77
1993	70	59	49	50	54	57	58	62	66	77	81	77
1994	69	58	50	50	53	58	66	73	78	84	82	76
1995	68	55	48	52	52	53	54	58	61	65	80	78
1996	69	61	54	52	56	54	59	69	74	84	84	76
1997	67	58	53	48	50	57	59	64	69	80	83	79
1998	68	60	50	52	50	54	56	58	63	67	85	79
1999	66	57	48	47	53	54	57	70	79	83	81	79
2000	70	60	50	51	55	56	60	70	81	81	82	76
2001	67	55	51	50	52	57	59	75	79	82	82	78
2002	70	61	50	49	53	55	62	71	79	84	81	76
2003	68	59	52	52	54	57	57	70	80	84	81	78

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Chowchilla Control Structure (Head of Reach 2B) (Deg. F)
Alternative4 (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					54	55	58	61	65	74	76	70
1981	63	53	48	48	55	57	62	70	76	77	76	73
1982	62	54	49	47	53	55	57	62	66	75	78	70
1983	62	51	51	49	51	53	55	58	61	65	76	73
1984	66	55	51	51	53	58	59	71	74	78	76	73
1985	61	53	48	46	54	56	63	70	76	78	76	70
1986	63	53	48	51	54	58	58	62	67	75	75	69
1987	62	54	47	47	54	57	69	75	78	79	79	74
1988	68	55	50	47	56	59	65	71	77	83	81	76
1989	67	54	48	47	54	58	63	71	78	82	81	74
1990	66	56	47	48	52	58	69	74	78	84	82	75
1991	68	55	46	48	57	56	62	70	77	84	80	79
1992	72	57	48	45	55	59	67	77	79	80	82	77
1993	69	56	49	50	55	59	59	62	66	75	77	73
1994	65	54	48	50	54	60	67	73	78	83	82	76
1995	67	53	47	52	56	58	58	61	65	67	76	74
1996	65	57	52	51	58	59	61	68	72	79	79	73
1997	64	55	52	51	53	57	59	64	68	76	78	74
1998	64	56	49	51	53	58	60	61	68	69	83	76
1999	63	54	48	48	54	57	59	69	74	78	76	75
2000	66	56	50	51	56	58	61	69	77	76	77	72
2001	64	53	50	50	53	59	61	75	78	81	81	77
2002	68	58	49	49	55	57	63	71	79	84	81	76
2003	67	57	51	52	56	59	59	69	77	79	78	76

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Change in Average Simulated SJR Below Chowchilla Control Structure (Head of Reach 2B) (Deg. F) Alternative4 (2005) - Existing Conditions (2005)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Percent Change in Average Simulated SJR Below Chowchilla Control Structure (Head of Reach 2B) (Deg. F) From Existing Conditions (2005)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Chowchilla Control Structure (Head of Reach 2B) (Deg. F)
Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					48	51	57	61	64	75	80	74
1981	67	57	50	47	55	55	60	71	80	83	80	76
1982	65	58	49	46	51	52	52	58	62	76	80	72
1983	65	55	52	46	48	50	52	57	57	64	79	76
1984	68	56	53	48	52	56	57	72	78	84	80	77
1985	65	56	49	45	53	54	61	71	80	82	79	72
1986	66	56	48	50	49	52	56	59	65	78	79	72
1987	65	58	49	47	54	56	68	74	78	79	79	75
1988	69	57	51	47	55	57	64	71	77	83	81	76
1989	68	57	50	47	52	56	62	71	78	82	81	74
1990	67	59	48	48	51	57	68	74	78	84	82	76
1991	70	58	47	48	56	54	60	70	77	84	80	79
1992	72	59	49	45	54	56	66	76	79	80	82	77
1993	70	59	49	50	54	57	58	62	66	77	81	77
1994	69	58	50	50	53	58	66	73	78	84	82	76
1995	68	55	48	52	52	53	54	58	61	65	80	78
1996	69	61	54	52	56	54	59	69	74	84	84	76
1997	67	58	53	48	50	57	59	64	69	80	83	79
1998	68	60	50	52	50	54	56	58	63	67	85	79
1999	66	57	48	47	53	54	57	70	79	83	81	79
2000	70	60	50	51	55	56	60	70	81	81	82	76
2001	67	55	51	50	52	57	59	75	79	82	82	78
2002	70	61	50	49	53	55	62	71	79	84	81	76
2003	68	59	52	52	54	57	57	70	80	84	81	78

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Chowchilla Control Structure (Head of Reach 2B) (Deg. F)
Alternative5 (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					54	55	55	59	63	74	77	72
1981	67	57	51	50	56	57	61	69	76	77	76	75
1982	66	58	51	48	52	53	54	61	64	76	79	72
1983	65	54	50	47	52	53	55	58	60	65	76	76
1984	68	55	52	51	54	58	57	69	74	79	77	75
1985	64	55	51	48	54	56	62	69	75	77	75	71
1986	66	56	51	51	53	57	55	60	64	73	75	71
1987	65	57	51	50	55	58	68	72	74	75	76	73
1988	69	58	52	49	54	58	63	71	77	83	81	77
1989	68	58	51	48	53	57	64	72	78	83	81	74
1990	67	59	50	49	51	57	68	75	78	84	82	76
1991	70	58	48	49	56	55	61	71	78	84	81	79
1992	73	60	50	47	54	58	66	76	79	80	82	77
1993	70	60	51	51	54	57	57	62	65	74	77	76
1994	69	58	52	52	54	59	64	70	74	77	77	75
1995	67	55	49	52	54	57	56	60	63	75	79	77
1996	69	61	54	53	58	59	59	66	73	79	80	75
1997	67	58	53	52	54	57	57	63	66	75	79	77
1998	67	59	51	53	54	58	58	60	65	74	84	79
1999	66	57	50	49	54	57	58	68	74	77	77	77
2000	69	59	52	53	56	58	60	68	76	76	77	74
2001	67	56	53	52	53	59	60	72	75	77	78	76
2002	70	61	52	50	53	56	61	70	78	82	80	76
2003	68	60	53	53	54	57	57	68	75	78	77	77

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Change in Average Simulated SJR Below Chowchilla Control Structure (Head of Reach 2B) (Deg. F) Alternative5 (2005) - Existing Conditions (2005)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Percent Change in Average Simulated SJR Below Chowchilla Control Structure (Head of Reach 2B) (Deg. F) From Existing Conditions (2005)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Chowchilla Control Structure (Head of Reach 2B) (Deg. F)
No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					47	50	53	57	60	72	76	70
1981	65	55	50	47	52	53	57	66	76	78	76	73
1982	63	56	49	45	49	50	51	56	60	72	76	69
1983	62	54	52	45	47	49	51	55	56	62	75	72
1984	65	54	52	46	49	53	53	66	73	79	77	74
1985	62	54	49	44	50	52	57	66	75	78	75	69
1986	63	54	48	48	48	50	53	58	62	73	75	69
1987	63	56	49	47	52	53	65	70	74	75	75	71
1988	67	55	50	46	52	54	59	66	72	79	77	73
1989	65	56	49	46	50	54	60	67	73	78	76	71
1990	64	57	49	47	48	54	64	70	73	79	78	72
1991	67	56	47	47	53	52	57	66	72	79	76	75
1992	70	57	48	45	52	54	62	72	74	75	78	73
1993	67	58	49	49	52	55	53	59	62	73	77	73
1994	66	56	49	48	51	55	62	68	73	79	78	73
1995	65	53	48	50	51	52	52	56	60	63	76	75
1996	66	59	53	50	55	52	55	64	70	79	79	73
1997	65	57	52	47	49	54	54	61	65	75	79	75
1998	65	59	50	50	50	52	53	56	61	65	80	75
1999	63	56	48	47	50	52	54	65	74	78	76	75
2000	67	58	50	50	53	54	56	66	76	76	78	72
2001	65	54	50	48	50	54	56	70	75	77	78	74
2002	67	59	50	47	50	53	58	66	75	79	77	73
2003	65	58	51	50	52	54	55	66	75	79	77	74

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Chowchilla Control Structure (Head of Reach 2B) (Deg. F)
Alternative1 (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					54	55	56	60	63	74	76	70
1981	65	57	52	50	56	57	62	71	78	79	77	73
1982	63	58	53	49	54	54	55	60	63	73	75	69
1983	63	54	50	49	52	53	55	58	61	65	75	72
1984	67	55	52	51	54	58	57	70	74	79	76	73
1985	63	55	52	49	55	57	62	71	78	80	77	70
1986	64	55	51	52	54	58	56	60	64	74	76	69
1987	63	57	51	50	55	58	70	75	78	80	80	75
1988	69	56	51	49	56	59	63	71	77	83	81	76
1989	67	55	50	49	54	58	63	71	78	82	81	74
1990	66	57	50	50	52	58	68	75	78	84	82	75
1991	69	56	48	50	57	55	61	70	77	84	80	79
1992	72	58	51	48	55	58	66	76	79	80	82	77
1993	69	57	50	52	55	58	56	61	64	75	77	73
1994	67	58	53	52	54	60	66	73	78	84	82	76
1995	67	54	49	53	56	58	56	60	63	67	76	74
1996	66	59	54	53	58	59	59	67	74	80	80	73
1997	65	57	53	52	54	57	57	63	66	76	79	74
1998	65	58	52	53	54	58	58	60	65	75	81	75
1999	64	57	50	50	54	57	58	70	76	79	77	75
2000	67	59	54	54	56	58	59	69	78	78	78	73
2001	65	56	54	52	53	59	60	75	79	82	82	78
2002	69	59	52	51	55	57	61	70	79	84	81	76
2003	67	58	53	54	56	58	58	70	79	83	80	78

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Change in Average Simulated SJR Below Chowchilla Control Structure (Head of Reach 2B) (Deg. F) Alternative1 (2030) - No Action (2030)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Percent Change in Average Simulated SJR Below Chowchilla Control Structure (Head of Reach 2B) (Deg. F) From No Action (2030)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Chowchilla Control Structure (Head of Reach 2B) (Deg. F)
No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					47	50	53	57	60	72	76	70
1981	65	55	50	47	52	53	57	66	76	78	76	73
1982	63	56	49	45	49	50	51	56	60	72	76	69
1983	62	54	52	45	47	49	51	55	56	62	75	72
1984	65	54	52	46	49	53	53	66	73	79	77	74
1985	62	54	49	44	50	52	57	66	75	78	75	69
1986	63	54	48	48	48	50	53	58	62	73	75	69
1987	63	56	49	47	52	53	65	70	74	75	75	71
1988	67	55	50	46	52	54	59	66	72	79	77	73
1989	65	56	49	46	50	54	60	67	73	78	76	71
1990	64	57	49	47	48	54	64	70	73	79	78	72
1991	67	56	47	47	53	52	57	66	72	79	76	75
1992	70	57	48	45	52	54	62	72	74	75	78	73
1993	67	58	49	49	52	55	53	59	62	73	77	73
1994	66	56	49	48	51	55	62	68	73	79	78	73
1995	65	53	48	50	51	52	52	56	60	63	76	75
1996	66	59	53	50	55	52	55	64	70	79	79	73
1997	65	57	52	47	49	54	54	61	65	75	79	75
1998	65	59	50	50	50	52	53	56	61	65	80	75
1999	63	56	48	47	50	52	54	65	74	78	76	75
2000	67	58	50	50	53	54	56	66	76	76	78	72
2001	65	54	50	48	50	54	56	70	75	77	78	74
2002	67	59	50	47	50	53	58	66	75	79	77	73
2003	65	58	51	50	52	54	55	66	75	79	77	74

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Chowchilla Control Structure (Head of Reach 2B) (Deg. F)
Alternative2 (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					54	55	56	59	63	74	77	71
1981	65	57	52	50	56	57	61	70	78	79	77	73
1982	63	58	53	49	54	54	55	60	63	74	76	70
1983	63	54	50	49	52	53	55	58	61	65	75	73
1984	67	55	52	51	54	58	57	70	74	80	77	74
1985	62	55	52	49	55	57	62	71	78	79	77	70
1986	64	55	52	52	54	58	56	60	64	74	76	69
1987	63	57	51	50	55	58	70	75	78	80	80	75
1988	69	56	51	50	56	59	63	71	77	83	81	76
1989	67	55	50	49	54	58	63	71	78	82	81	74
1990	66	57	50	50	52	58	68	75	78	84	82	75
1991	69	56	48	50	57	55	61	70	77	84	80	79
1992	72	58	51	48	55	58	66	76	79	80	82	77
1993	69	57	50	52	55	58	56	61	64	75	78	74
1994	67	58	53	52	54	60	66	73	78	84	82	76
1995	67	54	49	53	56	58	56	60	63	67	77	75
1996	66	59	54	53	58	59	59	67	74	80	80	73
1997	65	57	53	52	54	57	57	63	66	76	80	75
1998	65	58	52	53	54	58	58	60	65	75	82	76
1999	64	57	50	50	54	57	58	69	76	79	78	76
2000	67	59	54	54	56	58	59	69	78	78	79	73
2001	65	56	54	52	53	59	60	75	79	82	82	78
2002	69	59	52	51	55	57	61	70	79	84	81	76
2003	67	58	53	54	56	58	58	70	79	82	80	78

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Change in Average Simulated SJR Below Chowchilla Control Structure (Head of Reach 2B) (Deg. F) Alternative2 (2030) - No Action (2030)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Percent Change in Average Simulated SJR Below Chowchilla Control Structure (Head of Reach 2B) (Deg. F) From No Action (2030)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Chowchilla Control Structure (Head of Reach 2B) (Deg. F)
No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					47	50	53	57	60	72	76	70
1981	65	55	50	47	52	53	57	66	76	78	76	73
1982	63	56	49	45	49	50	51	56	60	72	76	69
1983	62	54	52	45	47	49	51	55	56	62	75	72
1984	65	54	52	46	49	53	53	66	73	79	77	74
1985	62	54	49	44	50	52	57	66	75	78	75	69
1986	63	54	48	48	48	50	53	58	62	73	75	69
1987	63	56	49	47	52	53	65	70	74	75	75	71
1988	67	55	50	46	52	54	59	66	72	79	77	73
1989	65	56	49	46	50	54	60	67	73	78	76	71
1990	64	57	49	47	48	54	64	70	73	79	78	72
1991	67	56	47	47	53	52	57	66	72	79	76	75
1992	70	57	48	45	52	54	62	72	74	75	78	73
1993	67	58	49	49	52	55	53	59	62	73	77	73
1994	66	56	49	48	51	55	62	68	73	79	78	73
1995	65	53	48	50	51	52	52	56	60	63	76	75
1996	66	59	53	50	55	52	55	64	70	79	79	73
1997	65	57	52	47	49	54	54	61	65	75	79	75
1998	65	59	50	50	50	52	53	56	61	65	80	75
1999	63	56	48	47	50	52	54	65	74	78	76	75
2000	67	58	50	50	53	54	56	66	76	76	78	72
2001	65	54	50	48	50	54	56	70	75	77	78	74
2002	67	59	50	47	50	53	58	66	75	79	77	73
2003	65	58	51	50	52	54	55	66	75	79	77	74

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Chowchilla Control Structure (Head of Reach 2B) (Deg. F)
Alternative3 (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					54	55	56	59	63	74	77	73
1981	67	57	51	50	56	57	61	70	78	79	77	75
1982	64	57	52	49	54	54	55	60	63	76	79	72
1983	65	54	50	49	52	53	55	58	61	65	78	76
1984	68	55	52	51	54	58	57	69	74	80	78	76
1985	64	55	51	48	55	57	62	70	78	80	77	72
1986	65	55	51	52	54	58	56	60	64	74	77	71
1987	65	57	50	49	55	58	69	75	78	80	80	75
1988	69	56	51	50	56	59	63	71	77	83	81	76
1989	67	55	50	49	54	58	63	71	78	82	81	74
1990	66	57	50	50	52	58	68	75	78	84	82	75
1991	69	56	48	50	57	55	61	70	77	84	80	79
1992	72	58	51	48	55	58	66	76	79	80	82	77
1993	69	57	50	52	55	58	56	61	65	75	78	76
1994	69	58	52	52	54	59	66	73	78	84	82	76
1995	67	54	49	53	56	58	56	60	63	67	78	77
1996	69	60	54	53	58	59	59	66	74	80	81	75
1997	67	58	53	51	54	57	57	63	66	76	80	77
1998	67	59	51	53	54	58	58	60	65	78	85	79
1999	66	57	50	49	54	57	58	69	76	79	78	78
2000	70	59	53	53	56	58	59	69	78	78	79	75
2001	67	56	53	52	53	59	60	75	79	82	82	78
2002	69	59	52	51	55	57	61	70	79	84	81	76
2003	67	58	53	54	56	58	58	69	79	82	80	78

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Change in Average Simulated SJR Below Chowchilla Control Structure (Head of Reach 2B) (Deg. F) Alternative3 (2030) - No Action (2030)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Percent Change in Average Simulated SJR Below Chowchilla Control Structure (Head of Reach 2B) (Deg. F) From No Action (2030)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Chowchilla Control Structure (Head of Reach 2B) (Deg. F)
No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					47	50	53	57	60	72	76	70
1981	65	55	50	47	52	53	57	66	76	78	76	73
1982	63	56	49	45	49	50	51	56	60	72	76	69
1983	62	54	52	45	47	49	51	55	56	62	75	72
1984	65	54	52	46	49	53	53	66	73	79	77	74
1985	62	54	49	44	50	52	57	66	75	78	75	69
1986	63	54	48	48	48	50	53	58	62	73	75	69
1987	63	56	49	47	52	53	65	70	74	75	75	71
1988	67	55	50	46	52	54	59	66	72	79	77	73
1989	65	56	49	46	50	54	60	67	73	78	76	71
1990	64	57	49	47	48	54	64	70	73	79	78	72
1991	67	56	47	47	53	52	57	66	72	79	76	75
1992	70	57	48	45	52	54	62	72	74	75	78	73
1993	67	58	49	49	52	55	53	59	62	73	77	73
1994	66	56	49	48	51	55	62	68	73	79	78	73
1995	65	53	48	50	51	52	52	56	60	63	76	75
1996	66	59	53	50	55	52	55	64	70	79	79	73
1997	65	57	52	47	49	54	54	61	65	75	79	75
1998	65	59	50	50	50	52	53	56	61	65	80	75
1999	63	56	48	47	50	52	54	65	74	78	76	75
2000	67	58	50	50	53	54	56	66	76	76	78	72
2001	65	54	50	48	50	54	56	70	75	77	78	74
2002	67	59	50	47	50	53	58	66	75	79	77	73
2003	65	58	51	50	52	54	55	66	75	79	77	74

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Chowchilla Control Structure (Head of Reach 2B) (Deg. F)
Alternative4 (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					54	55	56	60	65	74	76	70
1981	64	54	49	49	55	57	61	70	77	78	76	73
1982	62	54	49	48	54	55	55	61	65	76	78	70
1983	62	52	50	49	51	53	55	58	61	65	76	74
1984	66	55	51	51	53	58	57	69	74	79	76	73
1985	62	53	49	48	54	56	61	70	77	79	76	70
1986	64	53	49	51	54	58	56	61	66	75	76	69
1987	62	54	48	48	54	57	69	75	78	80	80	75
1988	68	55	50	49	56	59	63	71	77	83	81	76
1989	67	54	49	48	54	58	64	71	78	82	81	74
1990	66	56	48	49	52	58	68	75	78	84	82	76
1991	69	56	47	49	57	56	61	70	77	84	80	79
1992	72	57	50	48	55	58	67	76	79	80	82	77
1993	69	56	49	51	55	58	57	61	66	74	77	73
1994	66	55	50	51	54	60	66	73	78	84	82	76
1995	67	53	48	52	56	58	56	60	65	67	77	74
1996	65	57	51	52	58	59	59	66	73	79	79	73
1997	64	55	52	51	53	57	57	63	67	76	79	75
1998	64	56	49	51	53	57	57	60	66	72	83	76
1999	63	54	49	49	54	57	58	69	75	78	77	75
2000	66	56	50	52	56	58	59	69	77	77	78	72
2001	64	53	51	51	53	59	60	75	79	82	82	78
2002	69	58	50	50	55	57	61	70	80	84	81	76
2003	67	57	51	52	56	59	58	70	78	82	80	78

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Change in Average Simulated SJR Below Chowchilla Control Structure (Head of Reach 2B) (Deg. F) Alternative4 (2030) - No Action (2030)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Percent Change in Average Simulated SJR Below Chowchilla Control Structure (Head of Reach 2B) (Deg. F) From No Action (2030)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Mendota Pool (Head of Reach 3) (Deg. F)
Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					50	54	59	69	70	78	76	71
1981	66	56	47	46	55	57	64	66	75	78	76	73
1982	63	56	47	46	52	55	57	62	72	79	76	71
1983	63	53	50	47	51	53	55	60	61	67	80	80
1984	64	53	51	49	53	58	60	67	74	81	77	74
1985	62	53	47	42	53	57	64	66	74	75	72	71
1986	65	54	45	48	50	54	58	62	69	77	76	68
1987	64	56	46	45	55	58	66	69	73	76	78	74
1988	69	57	48	46	56	60	65	65	72	79	76	72
1989	67	55	47	45	53	59	65	65	71	78	79	73
1990	65	57	45	46	51	59	67	66	73	80	80	74
1991	66	55	44	46	56	55	63	64	71	82	79	76
1992	69	57	46	44	55	60	67	70	75	80	82	75
1993	68	57	46	47	54	64	70	70	78	80	81	72
1994	66	55	47	46	53	60	65	66	73	81	81	75
1995	65	53	45	51	55	57	56	60	71	81	82	74
1996	65	60	51	50	58	63	70	71	73	80	81	73
1997	64	57	51	49	52	62	66	67	71	79	81	76
1998	64	59	47	50	53	57	58	60	64	71	80	73
1999	62	57	46	45	53	56	58	62	71	82	79	75
2000	67	59	49	49	56	62	67	65	74	78	80	74
2001	66	55	50	48	51	59	61	69	74	79	79	75
2002	68	60	46	48	53	57	64	64	72	80	79	75
2003	66	58	51	51	54	59	60	64	73	81	78	75

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Mendota Pool (Head of Reach 3) (Deg. F)
Alternative1 (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					53	55	60	69	71	80	76	71
1981	66	56	49	49	55	58	65	67	75	78	76	73
1982	63	56	50	48	54	56	59	64	71	79	76	71
1983	63	53	49	49	52	54	56	60	61	67	80	80
1984	64	53	51	50	53	59	61	67	74	81	77	74
1985	62	54	50	48	54	58	65	66	74	75	73	71
1986	64	54	48	52	55	58	59	64	69	77	76	68
1987	64	56	49	48	55	59	67	69	73	76	78	73
1988	69	57	50	48	56	61	65	65	72	79	76	72
1989	67	55	47	45	53	59	65	65	71	78	79	73
1990	65	56	45	46	51	59	67	66	73	80	81	74
1991	66	55	44	46	56	56	63	64	71	82	79	76
1992	69	57	46	44	56	61	67	70	75	80	82	75
1993	68	56	46	47	55	65	70	70	78	78	77	71
1994	66	56	50	50	53	61	65	66	72	80	81	75
1995	65	53	45	51	57	60	60	63	71	80	80	73
1996	65	59	52	51	58	63	70	71	73	78	78	72
1997	64	57	52	51	52	62	66	67	70	77	78	74
1998	64	59	50	52	54	59	60	61	67	73	76	71
1999	62	56	47	47	53	57	60	62	71	77	75	74
2000	67	59	51	51	56	62	68	65	74	76	78	73
2001	66	55	51	49	52	60	62	69	74	77	77	74
2002	68	60	46	48	53	58	64	64	72	80	78	74
2003	66	58	51	51	55	60	60	64	73	79	76	74

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Change in Average Simulated SJR Below Mendota Pool (Head of Reach 3) (Deg. F)
Alternative1 (2005) - Existing Conditions (2005)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Percent Change in Average Simulated SJR Below Mendota Pool (Head of Reach 3) (Deg. F)
From Existing Conditions (2005)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Mendota Pool (Head of Reach 3) (Deg. F)
Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					50	54	59	69	70	78	76	71
1981	66	56	47	46	55	57	64	66	75	78	76	73
1982	63	56	47	46	52	55	57	62	72	79	76	71
1983	63	53	50	47	51	53	55	60	61	67	80	80
1984	64	53	51	49	53	58	60	67	74	81	77	74
1985	62	53	47	42	53	57	64	66	74	75	72	71
1986	65	54	45	48	50	54	58	62	69	77	76	68
1987	64	56	46	45	55	58	66	69	73	76	78	74
1988	69	57	48	46	56	60	65	65	72	79	76	72
1989	67	55	47	45	53	59	65	65	71	78	79	73
1990	65	57	45	46	51	59	67	66	73	80	80	74
1991	66	55	44	46	56	55	63	64	71	82	79	76
1992	69	57	46	44	55	60	67	70	75	80	82	75
1993	68	57	46	47	54	64	70	70	78	80	81	72
1994	66	55	47	46	53	60	65	66	73	81	81	75
1995	65	53	45	51	55	57	56	60	71	81	82	74
1996	65	60	51	50	58	63	70	71	73	80	81	73
1997	64	57	51	49	52	62	66	67	71	79	81	76
1998	64	59	47	50	53	57	58	60	64	71	80	73
1999	62	57	46	45	53	56	58	62	71	82	79	75
2000	67	59	49	49	56	62	67	65	74	78	80	74
2001	66	55	50	48	51	59	61	69	74	79	79	75
2002	68	60	46	48	53	57	64	64	72	80	79	75
2003	66	58	51	51	54	59	60	64	73	81	78	75

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Mendota Pool (Head of Reach 3) (Deg. F)
Alternative2 (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					53	55	60	69	71	79	76	71
1981	65	56	50	49	55	58	65	67	75	78	76	73
1982	63	56	51	48	54	56	59	64	71	79	76	70
1983	63	52	50	49	52	54	56	60	61	67	78	80
1984	64	53	51	50	53	59	61	67	74	81	77	74
1985	62	54	50	48	54	58	65	66	74	75	73	71
1986	64	54	50	52	55	58	59	64	69	77	76	68
1987	63	56	50	48	55	59	67	69	73	76	78	74
1988	69	57	50	47	56	61	65	65	72	79	76	72
1989	67	55	47	45	53	59	65	65	71	78	79	73
1990	65	56	45	46	51	59	67	66	73	80	81	74
1991	66	55	44	46	56	56	63	64	71	82	79	76
1992	69	57	46	44	56	61	67	70	75	80	82	75
1993	68	56	46	47	55	64	70	70	77	78	77	71
1994	66	56	50	50	53	61	65	66	73	80	81	75
1995	65	53	45	51	57	60	60	63	72	80	80	73
1996	65	59	52	52	58	63	70	71	73	78	78	72
1997	64	57	52	51	52	62	66	67	70	77	78	74
1998	64	59	50	52	54	59	60	61	67	73	76	70
1999	62	57	46	45	53	57	60	62	71	77	75	74
2000	67	59	51	52	56	62	67	65	74	76	78	73
2001	66	55	52	49	52	60	62	69	74	77	77	74
2002	68	60	46	48	53	58	64	64	72	80	79	75
2003	66	58	51	51	55	60	60	65	73	79	76	74

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Change in Average Simulated SJR Below Mendota Pool (Head of Reach 3) (Deg. F)
Alternative2 (2005) - Existing Conditions (2005)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Percent Change in Average Simulated SJR Below Mendota Pool (Head of Reach 3) (Deg. F)
From Existing Conditions (2005)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Mendota Pool (Head of Reach 3) (Deg. F)
Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					50	54	59	69	70	78	76	71
1981	66	56	47	46	55	57	64	66	75	78	76	73
1982	63	56	47	46	52	55	57	62	72	79	76	71
1983	63	53	50	47	51	53	55	60	61	67	80	80
1984	64	53	51	49	53	58	60	67	74	81	77	74
1985	62	53	47	42	53	57	64	66	74	75	72	71
1986	65	54	45	48	50	54	58	62	69	77	76	68
1987	64	56	46	45	55	58	66	69	73	76	78	74
1988	69	57	48	46	56	60	65	65	72	79	76	72
1989	67	55	47	45	53	59	65	65	71	78	79	73
1990	65	57	45	46	51	59	67	66	73	80	80	74
1991	66	55	44	46	56	55	63	64	71	82	79	76
1992	69	57	46	44	55	60	67	70	75	80	82	75
1993	68	57	46	47	54	64	70	70	78	80	81	72
1994	66	55	47	46	53	60	65	66	73	81	81	75
1995	65	53	45	51	55	57	56	60	71	81	82	74
1996	65	60	51	50	58	63	70	71	73	80	81	73
1997	64	57	51	49	52	62	66	67	71	79	81	76
1998	64	59	47	50	53	57	58	60	64	71	80	73
1999	62	57	46	45	53	56	58	62	71	82	79	75
2000	67	59	49	49	56	62	67	65	74	78	80	74
2001	66	55	50	48	51	59	61	69	74	79	79	75
2002	68	60	46	48	53	57	64	64	72	80	79	75
2003	66	58	51	51	54	59	60	64	73	81	78	75

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Mendota Pool (Head of Reach 3) (Deg. F)
Alternative3 (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					54	55	58	67	70	79	76	71
1981	66	56	50	49	55	58	64	67	75	78	76	73
1982	63	56	50	48	54	56	58	64	72	79	76	71
1983	63	53	49	48	52	54	56	60	61	67	81	80
1984	64	53	51	50	53	59	59	67	74	81	77	74
1985	62	53	50	48	54	58	64	66	74	75	73	71
1986	65	54	49	52	55	58	57	63	69	77	76	68
1987	64	56	50	49	55	59	67	69	73	76	78	74
1988	69	57	50	49	56	60	64	65	72	79	76	72
1989	67	55	49	48	53	59	65	65	71	78	78	73
1990	65	56	48	50	51	59	67	66	75	81	80	74
1991	66	55	46	49	57	56	63	64	71	82	79	76
1992	69	57	49	48	56	61	67	70	75	80	82	75
1993	68	56	49	50	55	64	70	70	77	78	77	71
1994	66	56	50	51	53	61	65	66	72	80	81	75
1995	65	53	48	53	57	59	57	62	71	82	80	73
1996	65	60	53	52	58	63	70	71	74	78	78	72
1997	64	57	52	51	52	62	65	67	70	77	78	74
1998	64	59	50	52	54	59	59	60	67	76	80	72
1999	62	56	48	47	53	57	59	62	71	77	75	74
2000	67	59	51	52	56	62	67	65	74	76	78	73
2001	66	55	51	50	52	60	62	69	74	79	79	75
2002	68	60	50	50	54	58	63	64	72	80	79	75
2003	66	58	52	52	55	60	60	64	73	79	76	75

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Change in Average Simulated SJR Below Mendota Pool (Head of Reach 3) (Deg. F)
Alternative3 (2005) - Existing Conditions (2005)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Percent Change in Average Simulated SJR Below Mendota Pool (Head of Reach 3) (Deg. F)
From Existing Conditions (2005)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Mendota Pool (Head of Reach 3) (Deg. F)
Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					50	54	59	69	70	78	76	71
1981	66	56	47	46	55	57	64	66	75	78	76	73
1982	63	56	47	46	52	55	57	62	72	79	76	71
1983	63	53	50	47	51	53	55	60	61	67	80	80
1984	64	53	51	49	53	58	60	67	74	81	77	74
1985	62	53	47	42	53	57	64	66	74	75	72	71
1986	65	54	45	48	50	54	58	62	69	77	76	68
1987	64	56	46	45	55	58	66	69	73	76	78	74
1988	69	57	48	46	56	60	65	65	72	79	76	72
1989	67	55	47	45	53	59	65	65	71	78	79	73
1990	65	57	45	46	51	59	67	66	73	80	80	74
1991	66	55	44	46	56	55	63	64	71	82	79	76
1992	69	57	46	44	55	60	67	70	75	80	82	75
1993	68	57	46	47	54	64	70	70	78	80	81	72
1994	66	55	47	46	53	60	65	66	73	81	81	75
1995	65	53	45	51	55	57	56	60	71	81	82	74
1996	65	60	51	50	58	63	70	71	73	80	81	73
1997	64	57	51	49	52	62	66	67	71	79	81	76
1998	64	59	47	50	53	57	58	60	64	71	80	73
1999	62	57	46	45	53	56	58	62	71	82	79	75
2000	67	59	49	49	56	62	67	65	74	78	80	74
2001	66	55	50	48	51	59	61	69	74	79	79	75
2002	68	60	46	48	53	57	64	64	72	80	79	75
2003	66	58	51	51	54	59	60	64	73	81	78	75

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Mendota Pool (Head of Reach 3) (Deg. F)
Alternative4 (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					53	55	60	69	71	79	76	71
1981	65	55	48	48	55	58	64	67	75	78	76	73
1982	63	55	48	47	54	56	59	64	71	79	76	70
1983	63	52	49	48	52	54	56	60	61	67	78	80
1984	64	53	50	50	53	59	61	67	74	80	77	74
1985	62	53	49	47	54	58	65	66	74	75	73	71
1986	64	53	47	51	55	58	59	64	70	77	76	68
1987	63	55	47	47	55	59	67	69	73	76	78	74
1988	69	56	48	46	56	61	65	65	72	79	76	72
1989	67	55	47	45	53	59	65	65	71	78	79	73
1990	65	56	45	46	51	59	67	66	73	80	81	74
1991	66	55	44	46	56	56	63	64	71	82	79	76
1992	69	57	46	44	56	61	67	70	75	80	82	75
1993	68	56	46	47	55	65	70	70	77	78	77	71
1994	65	55	48	49	53	61	65	66	72	80	81	75
1995	65	53	45	51	57	60	60	63	72	80	80	73
1996	65	59	52	51	58	63	70	72	73	78	78	72
1997	64	57	51	51	52	61	66	67	71	77	78	74
1998	64	58	48	51	53	59	60	61	67	72	76	70
1999	62	56	46	45	53	57	59	62	71	77	75	74
2000	67	58	49	51	56	62	67	65	74	76	77	73
2001	66	54	50	49	52	60	62	69	74	77	77	74
2002	68	60	46	48	53	58	64	64	72	80	78	75
2003	66	58	51	51	54	60	60	65	73	79	76	74

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Change in Average Simulated SJR Below Mendota Pool (Head of Reach 3) (Deg. F)
Alternative4 (2005) - Existing Conditions (2005)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Percent Change in Average Simulated SJR Below Mendota Pool (Head of Reach 3) (Deg. F)
From Existing Conditions (2005)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Mendota Pool (Head of Reach 3) (Deg. F)
Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					50	54	59	69	70	78	76	71
1981	66	56	47	46	55	57	64	66	75	78	76	73
1982	63	56	47	46	52	55	57	62	72	79	76	71
1983	63	53	50	47	51	53	55	60	61	67	80	80
1984	64	53	51	49	53	58	60	67	74	81	77	74
1985	62	53	47	42	53	57	64	66	74	75	72	71
1986	65	54	45	48	50	54	58	62	69	77	76	68
1987	64	56	46	45	55	58	66	69	73	76	78	74
1988	69	57	48	46	56	60	65	65	72	79	76	72
1989	67	55	47	45	53	59	65	65	71	78	79	73
1990	65	57	45	46	51	59	67	66	73	80	80	74
1991	66	55	44	46	56	55	63	64	71	82	79	76
1992	69	57	46	44	55	60	67	70	75	80	82	75
1993	68	57	46	47	54	64	70	70	78	80	81	72
1994	66	55	47	46	53	60	65	66	73	81	81	75
1995	65	53	45	51	55	57	56	60	71	81	82	74
1996	65	60	51	50	58	63	70	71	73	80	81	73
1997	64	57	51	49	52	62	66	67	71	79	81	76
1998	64	59	47	50	53	57	58	60	64	71	80	73
1999	62	57	46	45	53	56	58	62	71	82	79	75
2000	67	59	49	49	56	62	67	65	74	78	80	74
2001	66	55	50	48	51	59	61	69	74	79	79	75
2002	68	60	46	48	53	57	64	64	72	80	79	75
2003	66	58	51	51	54	59	60	64	73	81	78	75

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Mendota Pool (Head of Reach 3) (Deg. F)
Alternative5 (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					53	55	57	67	70	79	76	71
1981	66	56	50	49	55	58	64	67	75	78	76	73
1982	63	56	50	47	53	55	58	64	72	79	76	71
1983	63	53	49	48	52	54	56	60	61	67	80	80
1984	64	53	51	50	53	59	59	67	74	80	77	74
1985	62	53	50	48	54	58	64	66	74	75	73	71
1986	65	54	50	51	54	57	57	63	69	76	76	68
1987	64	56	50	49	55	59	67	69	73	76	78	74
1988	69	57	51	49	55	60	64	65	72	79	76	72
1989	67	56	50	48	53	59	66	65	71	78	78	73
1990	65	57	48	49	51	59	67	66	75	81	80	74
1991	66	55	47	49	56	56	63	64	71	82	79	76
1992	69	57	49	47	55	61	67	70	75	80	82	75
1993	68	57	49	50	55	64	70	70	77	78	77	71
1994	66	56	50	51	53	60	65	66	73	78	77	73
1995	65	53	48	52	56	59	57	63	71	84	80	73
1996	65	60	53	52	58	63	70	71	74	78	78	72
1997	64	57	52	51	52	62	65	67	70	77	78	74
1998	64	59	50	52	54	59	59	61	67	76	80	72
1999	62	56	48	47	53	57	59	62	71	77	75	74
2000	67	59	51	52	56	62	67	65	74	76	77	73
2001	66	55	52	50	52	60	61	69	74	77	77	74
2002	68	60	50	50	53	57	63	64	73	78	76	74
2003	66	58	52	52	54	59	60	65	73	79	76	74

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Change in Average Simulated SJR Below Mendota Pool (Head of Reach 3) (Deg. F)
Alternative5 (2005) - Existing Conditions (2005)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Percent Change in Average Simulated SJR Below Mendota Pool (Head of Reach 3) (Deg. F)
From Existing Conditions (2005)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Mendota Pool (Head of Reach 3) (Deg. F)
No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					50	53	56	66	69	78	75	70
1981	65	55	49	48	54	56	62	65	74	77	75	72
1982	62	55	49	46	51	54	56	60	71	78	75	70
1983	63	53	49	47	51	53	54	58	59	65	79	79
1984	63	53	50	49	52	57	57	65	72	79	76	73
1985	61	53	49	46	52	56	62	65	73	74	71	70
1986	64	54	48	50	50	53	56	61	67	76	74	68
1987	63	56	49	47	54	57	65	68	72	75	77	73
1988	69	57	50	47	54	58	63	64	70	78	75	71
1989	66	55	49	47	52	58	64	64	70	77	78	72
1990	64	56	48	48	50	58	66	65	75	80	80	73
1991	65	55	46	48	55	55	61	63	70	81	78	75
1992	68	56	48	46	54	60	66	68	73	79	81	74
1993	67	56	48	49	54	63	69	69	77	79	80	71
1994	65	55	49	49	52	59	64	64	71	79	80	74
1995	64	52	47	52	55	56	54	58	70	79	81	73
1996	65	59	52	51	57	62	69	70	72	78	80	72
1997	63	57	51	48	51	61	64	66	69	77	80	75
1998	63	59	49	51	53	56	56	59	62	69	79	72
1999	61	56	47	47	52	55	57	60	70	80	78	74
2000	66	59	50	50	55	61	66	64	72	77	79	73
2001	65	54	50	48	50	58	60	67	73	78	78	74
2002	67	60	49	49	52	56	62	63	71	79	78	75
2003	65	58	52	51	53	58	58	63	72	80	77	75

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Mendota Pool (Head of Reach 3) (Deg. F)
Alternative1 (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					54	55	58	67	70	79	76	71
1981	66	56	51	49	55	58	64	67	75	78	76	73
1982	63	56	51	48	54	56	58	64	72	79	76	71
1983	63	53	49	48	52	54	56	60	61	67	80	80
1984	64	53	51	50	53	59	59	67	74	81	77	74
1985	62	54	51	48	54	58	64	66	74	75	73	71
1986	64	54	50	52	55	58	57	63	69	77	76	69
1987	64	56	51	49	55	59	67	69	73	76	78	74
1988	69	57	50	49	56	60	64	65	72	79	76	72
1989	67	55	49	48	53	59	65	65	71	78	78	73
1990	65	56	48	50	51	59	67	66	75	81	80	74
1991	66	55	46	49	57	56	63	64	71	82	79	76
1992	69	57	49	48	56	61	67	70	75	80	82	75
1993	68	56	49	50	55	65	70	70	77	78	77	71
1994	66	56	51	51	53	61	65	66	72	80	81	75
1995	65	53	48	53	57	59	57	62	71	81	80	73
1996	66	59	53	52	58	63	70	71	74	78	78	72
1997	64	57	52	51	52	62	65	67	70	77	78	74
1998	64	59	51	52	54	59	59	60	67	75	76	71
1999	62	57	48	48	54	57	59	62	71	77	75	74
2000	67	59	52	53	56	62	67	65	74	76	78	73
2001	66	55	52	51	52	60	62	69	74	79	79	75
2002	68	60	50	50	54	58	63	64	72	80	79	75
2003	66	58	52	52	55	60	60	64	73	79	76	74

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Change in Average Simulated SJR Below Mendota Pool (Head of Reach 3) (Deg. F)
Alternative1 (2030) - No Action (2030)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Percent Change in Average Simulated SJR Below Mendota Pool (Head of Reach 3) (Deg. F)
From No Action (2030)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Mendota Pool (Head of Reach 3) (Deg. F)
No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					50	53	56	66	69	78	75	70
1981	65	55	49	48	54	56	62	65	74	77	75	72
1982	62	55	49	46	51	54	56	60	71	78	75	70
1983	63	53	49	47	51	53	54	58	59	65	79	79
1984	63	53	50	49	52	57	57	65	72	79	76	73
1985	61	53	49	46	52	56	62	65	73	74	71	70
1986	64	54	48	50	50	53	56	61	67	76	74	68
1987	63	56	49	47	54	57	65	68	72	75	77	73
1988	69	57	50	47	54	58	63	64	70	78	75	71
1989	66	55	49	47	52	58	64	64	70	77	78	72
1990	64	56	48	48	50	58	66	65	75	80	80	73
1991	65	55	46	48	55	55	61	63	70	81	78	75
1992	68	56	48	46	54	60	66	68	73	79	81	74
1993	67	56	48	49	54	63	69	69	77	79	80	71
1994	65	55	49	49	52	59	64	64	71	79	80	74
1995	64	52	47	52	55	56	54	58	70	79	81	73
1996	65	59	52	51	57	62	69	70	72	78	80	72
1997	63	57	51	48	51	61	64	66	69	77	80	75
1998	63	59	49	51	53	56	56	59	62	69	79	72
1999	61	56	47	47	52	55	57	60	70	80	78	74
2000	66	59	50	50	55	61	66	64	72	77	79	73
2001	65	54	50	48	50	58	60	67	73	78	78	74
2002	67	60	49	49	52	56	62	63	71	79	78	75
2003	65	58	52	51	53	58	58	63	72	80	77	75

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Mendota Pool (Head of Reach 3) (Deg. F)
Alternative2 (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					54	55	58	67	70	79	76	71
1981	66	56	51	49	55	58	64	67	75	78	76	73
1982	63	56	52	48	54	56	58	64	72	79	76	70
1983	63	53	49	48	52	54	56	60	61	67	78	80
1984	64	53	51	50	53	59	59	67	74	81	77	74
1985	62	54	51	48	54	58	64	66	74	75	73	71
1986	64	54	50	52	55	58	57	63	69	77	76	69
1987	64	56	51	49	55	59	67	69	73	76	78	74
1988	69	57	50	49	56	60	64	65	72	79	76	72
1989	67	55	49	48	53	59	65	65	71	78	78	73
1990	65	56	48	50	51	59	67	66	75	81	80	74
1991	66	55	46	49	56	56	63	64	71	82	79	76
1992	69	57	49	48	56	61	67	70	75	80	82	75
1993	68	56	49	50	55	64	70	70	77	78	77	71
1994	66	56	51	51	53	61	65	66	72	80	81	75
1995	65	53	48	53	57	59	57	62	71	81	80	73
1996	65	59	53	52	58	63	70	71	74	78	78	72
1997	64	57	52	51	52	62	65	67	70	77	78	74
1998	64	59	51	53	54	59	59	60	67	75	76	71
1999	62	57	48	47	54	57	59	62	71	77	75	74
2000	67	59	53	53	56	62	67	65	74	76	78	73
2001	66	55	53	51	52	60	62	69	74	79	79	74
2002	68	60	50	50	54	58	63	64	72	80	79	75
2003	66	58	52	52	55	60	60	64	73	79	76	74

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Change in Average Simulated SJR Below Mendota Pool (Head of Reach 3) (Deg. F)
Alternative2 (2030) - No Action (2030)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Percent Change in Average Simulated SJR Below Mendota Pool (Head of Reach 3) (Deg. F)
From No Action (2030)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Mendota Pool (Head of Reach 3) (Deg. F)
No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					50	53	56	66	69	78	75	70
1981	65	55	49	48	54	56	62	65	74	77	75	72
1982	62	55	49	46	51	54	56	60	71	78	75	70
1983	63	53	49	47	51	53	54	58	59	65	79	79
1984	63	53	50	49	52	57	57	65	72	79	76	73
1985	61	53	49	46	52	56	62	65	73	74	71	70
1986	64	54	48	50	50	53	56	61	67	76	74	68
1987	63	56	49	47	54	57	65	68	72	75	77	73
1988	69	57	50	47	54	58	63	64	70	78	75	71
1989	66	55	49	47	52	58	64	64	70	77	78	72
1990	64	56	48	48	50	58	66	65	75	80	80	73
1991	65	55	46	48	55	55	61	63	70	81	78	75
1992	68	56	48	46	54	60	66	68	73	79	81	74
1993	67	56	48	49	54	63	69	69	77	79	80	71
1994	65	55	49	49	52	59	64	64	71	79	80	74
1995	64	52	47	52	55	56	54	58	70	79	81	73
1996	65	59	52	51	57	62	69	70	72	78	80	72
1997	63	57	51	48	51	61	64	66	69	77	80	75
1998	63	59	49	51	53	56	56	59	62	69	79	72
1999	61	56	47	47	52	55	57	60	70	80	78	74
2000	66	59	50	50	55	61	66	64	72	77	79	73
2001	65	54	50	48	50	58	60	67	73	78	78	74
2002	67	60	49	49	52	56	62	63	71	79	78	75
2003	65	58	52	51	53	58	58	63	72	80	77	75

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Mendota Pool (Head of Reach 3) (Deg. F)
Alternative3 (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					54	55	58	67	70	79	76	71
1981	66	56	50	49	55	58	64	67	75	78	76	73
1982	63	56	50	48	54	56	58	64	72	79	76	71
1983	63	53	49	48	52	54	56	60	61	67	81	80
1984	64	53	51	50	53	59	59	67	74	81	77	74
1985	62	53	50	48	54	58	64	66	74	75	73	71
1986	65	54	49	52	55	58	57	63	69	77	76	68
1987	64	56	50	49	55	59	67	69	73	76	78	74
1988	69	57	50	49	56	60	64	65	72	79	76	72
1989	67	55	49	48	53	59	65	65	71	78	78	73
1990	65	56	48	50	51	59	67	66	75	81	80	74
1991	66	55	46	49	57	56	63	64	71	82	79	76
1992	69	57	49	48	56	61	67	70	75	80	82	75
1993	68	56	49	50	55	64	70	70	77	78	77	71
1994	66	56	50	51	53	61	65	66	72	80	81	75
1995	65	53	48	53	57	59	57	62	71	82	80	73
1996	65	60	53	52	58	63	70	71	74	78	78	72
1997	64	57	52	51	52	62	65	67	70	77	78	74
1998	64	59	50	52	54	59	59	60	67	76	80	72
1999	62	56	48	47	53	57	59	62	71	77	75	74
2000	67	59	51	52	56	62	67	65	74	76	78	73
2001	66	55	51	50	52	60	62	69	74	79	79	75
2002	68	60	50	50	54	58	63	64	72	80	79	75
2003	66	58	52	52	55	60	60	64	73	79	76	75

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Change in Average Simulated SJR Below Mendota Pool (Head of Reach 3) (Deg. F)
Alternative3 (2030) - No Action (2030)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Percent Change in Average Simulated SJR Below Mendota Pool (Head of Reach 3) (Deg. F)
From No Action (2030)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Mendota Pool (Head of Reach 3) (Deg. F)
No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					50	53	56	66	69	78	75	70
1981	65	55	49	48	54	56	62	65	74	77	75	72
1982	62	55	49	46	51	54	56	60	71	78	75	70
1983	63	53	49	47	51	53	54	58	59	65	79	79
1984	63	53	50	49	52	57	57	65	72	79	76	73
1985	61	53	49	46	52	56	62	65	73	74	71	70
1986	64	54	48	50	50	53	56	61	67	76	74	68
1987	63	56	49	47	54	57	65	68	72	75	77	73
1988	69	57	50	47	54	58	63	64	70	78	75	71
1989	66	55	49	47	52	58	64	64	70	77	78	72
1990	64	56	48	48	50	58	66	65	75	80	80	73
1991	65	55	46	48	55	55	61	63	70	81	78	75
1992	68	56	48	46	54	60	66	68	73	79	81	74
1993	67	56	48	49	54	63	69	69	77	79	80	71
1994	65	55	49	49	52	59	64	64	71	79	80	74
1995	64	52	47	52	55	56	54	58	70	79	81	73
1996	65	59	52	51	57	62	69	70	72	78	80	72
1997	63	57	51	48	51	61	64	66	69	77	80	75
1998	63	59	49	51	53	56	56	59	62	69	79	72
1999	61	56	47	47	52	55	57	60	70	80	78	74
2000	66	59	50	50	55	61	66	64	72	77	79	73
2001	65	54	50	48	50	58	60	67	73	78	78	74
2002	67	60	49	49	52	56	62	63	71	79	78	75
2003	65	58	52	51	53	58	58	63	72	80	77	75

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Mendota Pool (Head of Reach 3) (Deg. F)
Alternative4 (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					53	55	58	67	70	79	76	71
1981	65	55	48	49	55	58	64	67	76	78	76	73
1982	63	55	49	48	54	56	58	64	73	79	76	70
1983	63	52	49	48	52	54	56	60	61	67	78	80
1984	64	53	50	50	53	59	59	67	74	80	77	74
1985	62	53	49	48	54	58	64	66	74	75	73	71
1986	64	54	48	51	55	58	58	63	69	77	76	68
1987	64	55	48	48	55	59	67	69	73	76	78	74
1988	69	57	50	49	56	61	64	65	72	79	76	72
1989	67	55	48	48	54	59	66	65	71	78	78	73
1990	65	56	47	49	51	59	67	66	75	81	80	74
1991	66	55	46	49	57	56	63	64	71	82	79	76
1992	69	57	48	47	56	61	67	70	75	80	82	75
1993	68	56	48	50	55	65	70	70	77	78	77	71
1994	65	55	49	50	53	61	65	66	72	80	81	75
1995	65	53	47	52	57	60	57	63	72	80	80	73
1996	65	59	51	51	58	63	70	71	74	78	78	72
1997	64	57	51	51	52	62	65	67	70	77	78	74
1998	64	58	49	51	53	59	59	61	67	75	76	70
1999	62	56	47	47	53	57	59	62	71	77	75	74
2000	67	58	50	52	56	62	67	65	74	76	78	73
2001	66	54	50	50	52	60	62	69	74	79	79	75
2002	68	60	49	50	54	58	63	64	72	80	79	75
2003	66	58	51	52	55	60	60	65	73	79	76	74

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Change in Average Simulated SJR Below Mendota Pool (Head of Reach 3) (Deg. F)
Alternative4 (2030) - No Action (2030)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Percent Change in Average Simulated SJR Below Mendota Pool (Head of Reach 3) (Deg. F)
From No Action (2030)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Sack Dam (Head of Reach 4A) (Deg. F)
Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					51	55	61	66	70	78	79	74
1981	69	57	48	46	56	58	65	73	80	82	80	77
1982	66	57	48	45	53	55	57	64	68	78	80	74
1983	66	54	50	47	52	54	56	62	65	69	78	43
1984	62	54	51	49	53	60	62	74	79	84	81	78
1985	65	55	47	43	54	58	66	72	79	81	78	74
1986	67	55	46	49	51	55	60	64	71	80	80	73
1987	67	58	47	45	55	59	71	75	78	80	80	76
1988	71	57	49	47	57	62	67	71	76	82	80	76
1989	69	57	48	46	54	60	67	72	77	81	81	75
1990	68	59	47	47	51	60	70	73	77	83	82	77
1991	70	58	45	47	57	57	64	71	76	84	82	79
1992	72	59	47	44	55	61	69	77	79	81	83	77
1993	71	59	47	49	55	61	63	68	72	80	82	77
1994	69	58	48	47	54	62	68	73	78	83	83	78
1995	68	54	46	51	55	55	58	63	67	71	82	78
1996	69	62	52	51	58	57	63	71	74	83	83	76
1997	67	58	52	49	52	60	63	70	74	81	83	79
1998	68	60	46	48	52	57	59	62	68	73	84	78
1999	66	57	47	46	54	58	61	70	78	84	81	78
2000	71	60	50	51	56	59	65	71	79	81	82	76
2001	68	55	47	47	53	61	64	77	79	81	81	78
2002	70	61	48	49	55	59	66	71	78	83	82	79
2003	69	59	52	52	56	60	62	71	78	83	80	78

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Sack Dam (Head of Reach 4A) (Deg. F)
Alternative1 (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					54	57	62	67	70	80	79	73
1981	68	57	49	48	56	59	66	73	80	82	79	76
1982	65	57	50	47	54	58	60	67	70	79	79	73
1983	65	53	49	48	52	55	58	63	65	70	80	77
1984	65	54	51	50	54	61	63	74	78	83	80	77
1985	65	55	49	46	55	60	67	73	79	81	78	73
1986	66	55	48	50	55	59	61	67	71	79	79	72
1987	66	57	48	47	56	60	71	75	78	80	80	76
1988	70	56	50	48	57	63	68	72	76	82	80	76
1989	69	56	48	46	54	61	67	72	77	81	81	75
1990	68	58	47	47	52	61	70	73	77	83	82	77
1991	70	57	45	47	57	58	65	71	76	84	82	79
1992	72	58	47	44	55	62	70	77	79	81	83	77
1993	71	58	47	49	56	62	63	68	72	80	80	76
1994	69	58	49	49	54	63	69	73	78	83	83	77
1995	68	54	46	52	57	60	62	66	70	72	80	77
1996	69	61	53	52	59	62	65	72	76	82	82	75
1997	67	58	52	51	53	61	64	70	73	80	81	77
1998	67	59	49	52	54	61	62	63	70	74	82	77
1999	66	57	47	47	55	59	62	71	78	82	79	78
2000	70	60	51	52	57	61	66	72	79	80	81	75
2001	67	56	51	50	53	62	65	77	79	80	80	77
2002	70	60	48	49	55	60	67	71	78	83	81	78
2003	69	59	52	52	57	61	62	71	79	82	80	78

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Change in Average Simulated SJR Below Sack Dam (Head of Reach 4A) (Deg. F)
Alternative1 (2005) - Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					3	1	1	0	0	2	0	-1
1981	-1	0	2	2	1	1	1	0	0	0	0	-1
1982	-1	0	2	2	2	2	4	3	2	0	-1	-1
1983	-1	-1	0	2	0	1	2	1	1	1	1	34
1984	3	0	0	0	1	1	1	0	0	0	-1	-1
1985	-1	0	2	3	1	1	1	0	0	0	0	0
1986	-1	0	2	1	4	4	1	2	1	-1	0	-1
1987	-1	-1	2	2	1	1	0	0	0	0	0	0
1988	-1	-1	0	1	1	1	0	0	0	0	0	0
1989	0	-1	0	0	0	1	1	0	0	0	0	0
1990	0	-1	0	0	0	1	0	0	0	0	0	0
1991	0	-1	0	0	0	1	0	0	0	0	0	0
1992	0	0	0	0	0	1	0	0	0	0	0	0
1993	0	-1	0	0	1	1	0	0	-1	0	-2	-1
1994	-1	0	2	2	1	1	0	0	0	0	0	0
1995	0	0	0	0	3	5	4	3	3	1	-2	-1
1996	-1	-1	1	1	1	5	2	0	1	-1	-1	-1
1997	0	0	0	2	1	0	1	0	-1	-1	-2	-1
1998	-1	-1	3	4	3	4	2	1	2	1	-1	-1
1999	0	0	1	1	1	1	1	0	0	-2	-2	-1
2000	-1	-1	1	1	1	1	1	0	0	-1	-1	-1
2001	-1	0	4	3	1	1	1	0	0	-1	-1	0
2002	0	0	0	0	1	1	0	0	0	0	-1	-1
2003	0	-1	0	0	0	1	1	0	1	-1	0	-1

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Percent Change in Average Simulated SJR Below Sack Dam (Head of Reach 4A) (Deg. F)
From Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					6%	3%	2%	0%	0%	3%	0%	-1%
1981	-2%	-1%	3%	3%	1%	2%	2%	0%	0%	0%	0%	-1%
1982	-1%	0%	5%	4%	3%	4%	6%	5%	3%	0%	-1%	-1%
1983	-1%	-1%	-1%	3%	1%	2%	3%	1%	1%	1%	2%	78%
1984	5%	0%	0%	0%	1%	2%	2%	0%	0%	-1%	-1%	-1%
1985	-1%	0%	3%	7%	2%	3%	2%	0%	0%	0%	0%	-1%
1986	-1%	-1%	3%	3%	8%	8%	2%	4%	1%	-1%	-1%	-1%
1987	-2%	-1%	4%	5%	1%	2%	1%	0%	0%	0%	0%	-1%
1988	-1%	-1%	1%	2%	1%	2%	0%	0%	0%	0%	0%	0%
1989	0%	-2%	0%	0%	1%	1%	1%	0%	0%	0%	0%	0%
1990	0%	-1%	0%	0%	1%	1%	0%	0%	0%	0%	0%	0%
1991	0%	-2%	0%	0%	0%	1%	1%	0%	0%	0%	0%	0%
1992	0%	-1%	0%	0%	1%	2%	0%	0%	0%	0%	0%	0%
1993	0%	-2%	0%	0%	1%	2%	1%	0%	-1%	-1%	-2%	-2%
1994	-1%	0%	4%	5%	1%	2%	0%	0%	0%	0%	0%	0%
1995	0%	-1%	0%	0%	5%	9%	6%	4%	4%	1%	-2%	-1%
1996	-1%	-2%	1%	2%	2%	9%	3%	1%	2%	-1%	-2%	-1%
1997	-1%	-1%	1%	5%	2%	1%	1%	0%	-1%	-2%	-2%	-2%
1998	-1%	-2%	7%	8%	5%	7%	4%	2%	3%	2%	-2%	-1%
1999	-1%	1%	1%	3%	2%	3%	2%	0%	0%	-2%	-2%	-1%
2000	-1%	-1%	2%	2%	1%	2%	2%	0%	0%	-1%	-2%	-1%
2001	-1%	1%	8%	6%	1%	2%	1%	0%	0%	-1%	-1%	-1%
2002	0%	-1%	0%	0%	1%	2%	1%	0%	0%	0%	-1%	-1%
2003	0%	-1%	0%	0%	1%	2%	1%	0%	1%	-1%	-1%	-1%

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Sack Dam (Head of Reach 4A) (Deg. F)
Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					51	55	61	66	70	78	79	74
1981	69	57	48	46	56	58	65	73	80	82	80	77
1982	66	57	48	45	53	55	57	64	68	78	80	74
1983	66	54	50	47	52	54	56	62	65	69	78	43
1984	62	54	51	49	53	60	62	74	79	84	81	78
1985	65	55	47	43	54	58	66	72	79	81	78	74
1986	67	55	46	49	51	55	60	64	71	80	80	73
1987	67	58	47	45	55	59	71	75	78	80	80	76
1988	71	57	49	47	57	62	67	71	76	82	80	76
1989	69	57	48	46	54	60	67	72	77	81	81	75
1990	68	59	47	47	51	60	70	73	77	83	82	77
1991	70	58	45	47	57	57	64	71	76	84	82	79
1992	72	59	47	44	55	61	69	77	79	81	83	77
1993	71	59	47	49	55	61	63	68	72	80	82	77
1994	69	58	48	47	54	62	68	73	78	83	83	78
1995	68	54	46	51	55	55	58	63	67	71	82	78
1996	69	62	52	51	58	57	63	71	74	83	83	76
1997	67	58	52	49	52	60	63	70	74	81	83	79
1998	68	60	46	48	52	57	59	62	68	73	84	78
1999	66	57	47	46	54	58	61	70	78	84	81	78
2000	71	60	50	51	56	59	65	71	79	81	82	76
2001	68	55	47	47	53	61	64	77	79	81	81	78
2002	70	61	48	49	55	59	66	71	78	83	82	79
2003	69	59	52	52	56	60	62	71	78	83	80	78

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Sack Dam (Head of Reach 4A) (Deg. F)
Alternative2 (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					54	57	62	66	70	80	79	74
1981	67	57	50	48	56	59	66	73	80	81	79	76
1982	65	57	50	47	54	57	60	67	70	79	80	73
1983	66	53	50	48	52	55	58	63	65	70	78	67
1984	63	54	51	50	54	61	63	74	78	83	80	77
1985	64	55	49	46	55	59	67	72	79	81	78	73
1986	66	55	49	51	55	59	61	67	71	79	79	72
1987	65	57	49	47	56	60	71	75	78	80	80	76
1988	70	56	50	48	57	63	68	72	76	82	80	76
1989	69	56	48	46	54	61	67	72	77	81	81	75
1990	68	58	47	47	52	61	70	73	77	83	82	77
1991	70	57	45	47	57	58	65	71	76	84	82	79
1992	72	58	47	44	55	62	70	77	79	81	83	77
1993	71	58	47	49	56	62	63	68	72	80	80	76
1994	69	58	50	50	54	63	69	73	78	83	83	78
1995	68	54	46	52	57	60	62	66	70	72	80	77
1996	68	60	53	52	59	62	65	71	76	82	82	75
1997	66	58	52	51	53	61	64	70	73	80	81	78
1998	67	59	50	52	54	60	62	63	70	74	83	77
1999	66	57	47	47	55	59	62	71	78	82	79	78
2000	69	59	51	52	57	61	66	72	79	80	81	75
2001	67	56	52	50	53	62	65	77	79	80	80	77
2002	70	60	48	49	55	60	67	71	78	83	81	79
2003	69	59	52	52	57	61	62	71	79	82	80	78

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Change in Average Simulated SJR Below Sack Dam (Head of Reach 4A) (Deg. F)
Alternative2 (2005) - Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					3	1	1	0	0	2	0	-1
1981	-1	-1	2	2	1	1	1	0	0	0	0	-1
1982	-1	0	3	2	2	2	4	3	2	0	0	-1
1983	0	-1	0	2	0	1	2	1	1	1	0	24
1984	1	0	0	0	1	1	1	0	0	-1	-1	-1
1985	-1	0	2	3	1	1	1	0	0	0	0	-1
1986	-1	0	3	2	4	4	1	2	1	-1	0	-1
1987	-1	-1	2	2	1	1	0	0	0	0	0	0
1988	-1	-1	0	1	1	1	0	0	0	0	0	0
1989	0	-1	0	0	0	1	1	0	0	0	0	0
1990	0	-1	0	0	0	1	0	0	0	0	0	0
1991	0	-1	0	0	0	1	0	0	0	0	0	0
1992	0	0	0	0	0	1	0	0	0	0	0	0
1993	0	-1	0	0	1	1	0	0	-1	-1	-2	-1
1994	-1	0	2	3	1	1	0	0	0	0	0	0
1995	0	0	0	0	3	5	4	3	3	1	-2	-1
1996	-1	-1	1	1	1	5	2	0	2	-1	-1	-1
1997	-1	0	1	2	1	0	0	0	-1	-1	-2	-1
1998	-1	-1	4	4	3	4	2	1	2	2	-1	-1
1999	0	0	0	1	1	1	1	0	0	-2	-2	-1
2000	-1	-1	2	1	1	1	1	0	0	-1	-1	-1
2001	-1	1	5	3	1	1	1	0	0	-1	-1	0
2002	0	-1	0	0	1	1	1	0	0	0	0	0
2003	0	-1	0	0	0	1	1	0	1	-1	0	-1

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Percent Change in Average Simulated SJR Below Sack Dam (Head of Reach 4A) (Deg. F)
From Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					6%	3%	2%	0%	0%	2%	0%	-1%
1981	-2%	-1%	4%	4%	1%	2%	1%	0%	0%	0%	0%	-1%
1982	-2%	0%	6%	4%	3%	4%	6%	5%	4%	1%	0%	-1%
1983	-1%	-1%	0%	3%	1%	2%	3%	1%	1%	1%	0%	55%
1984	1%	0%	0%	0%	1%	2%	2%	0%	0%	-1%	-1%	-1%
1985	-2%	0%	4%	7%	2%	2%	1%	0%	0%	0%	0%	-1%
1986	-2%	0%	6%	4%	7%	7%	2%	4%	1%	-1%	-1%	-1%
1987	-2%	-2%	5%	5%	1%	2%	1%	0%	0%	0%	0%	0%
1988	-1%	-1%	1%	1%	1%	2%	0%	0%	0%	0%	0%	0%
1989	0%	-2%	0%	0%	1%	1%	1%	0%	0%	0%	0%	0%
1990	0%	-1%	0%	0%	1%	1%	0%	0%	0%	0%	0%	0%
1991	0%	-2%	0%	0%	0%	1%	1%	0%	0%	0%	0%	0%
1992	0%	-1%	0%	0%	1%	2%	0%	0%	0%	0%	0%	0%
1993	0%	-2%	0%	0%	1%	2%	1%	0%	-1%	-1%	-2%	-1%
1994	-1%	0%	5%	6%	1%	2%	0%	0%	0%	0%	0%	0%
1995	0%	-1%	0%	0%	5%	8%	6%	5%	4%	1%	-2%	-1%
1996	-1%	-2%	1%	2%	2%	8%	3%	0%	3%	-1%	-2%	-1%
1997	-1%	-1%	1%	5%	2%	1%	1%	0%	-1%	-2%	-2%	-2%
1998	-1%	-2%	9%	9%	5%	7%	4%	2%	3%	3%	-2%	-1%
1999	0%	1%	1%	1%	2%	3%	2%	0%	0%	-2%	-2%	-1%
2000	-2%	-2%	3%	2%	1%	2%	2%	0%	0%	-1%	-2%	-1%
2001	-1%	1%	10%	7%	1%	2%	1%	0%	0%	-1%	-1%	-1%
2002	0%	-1%	0%	0%	1%	2%	1%	0%	0%	0%	0%	0%
2003	0%	-1%	0%	0%	1%	2%	1%	0%	1%	-1%	-1%	-1%

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Sack Dam (Head of Reach 4A) (Deg. F)
Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					51	55	61	66	70	78	79	74
1981	69	57	48	46	56	58	65	73	80	82	80	77
1982	66	57	48	45	53	55	57	64	68	78	80	74
1983	66	54	50	47	52	54	56	62	65	69	78	43
1984	62	54	51	49	53	60	62	74	79	84	81	78
1985	65	55	47	43	54	58	66	72	79	81	78	74
1986	67	55	46	49	51	55	60	64	71	80	80	73
1987	67	58	47	45	55	59	71	75	78	80	80	76
1988	71	57	49	47	57	62	67	71	76	82	80	76
1989	69	57	48	46	54	60	67	72	77	81	81	75
1990	68	59	47	47	51	60	70	73	77	83	82	77
1991	70	58	45	47	57	57	64	71	76	84	82	79
1992	72	59	47	44	55	61	69	77	79	81	83	77
1993	71	59	47	49	55	61	63	68	72	80	82	77
1994	69	58	48	47	54	62	68	73	78	83	83	78
1995	68	54	46	51	55	55	58	63	67	71	82	78
1996	69	62	52	51	58	57	63	71	74	83	83	76
1997	67	58	52	49	52	60	63	70	74	81	83	79
1998	68	60	46	48	52	57	59	62	68	73	84	78
1999	66	57	47	46	54	58	61	70	78	84	81	78
2000	71	60	50	51	56	59	65	71	79	81	82	76
2001	68	55	47	47	53	61	64	77	79	81	81	78
2002	70	61	48	49	55	59	66	71	78	83	82	79
2003	69	59	52	52	56	60	62	71	78	83	80	78

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Sack Dam (Head of Reach 4A) (Deg. F)
Alternative3 (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					54	56	60	65	69	80	79	74
1981	69	57	50	49	57	59	65	72	80	82	80	77
1982	66	57	50	47	54	57	58	66	70	79	80	74
1983	66	53	49	48	52	55	58	63	66	70	78	44
1984	62	54	51	50	54	61	61	73	78	83	80	78
1985	65	55	49	46	55	59	66	72	79	81	78	74
1986	67	55	49	51	55	59	60	65	71	79	79	73
1987	67	57	49	48	56	60	71	75	78	80	80	76
1988	71	57	50	49	57	62	67	71	76	82	80	76
1989	69	56	49	48	55	61	68	72	77	81	81	75
1990	68	58	48	49	52	61	70	73	78	84	82	77
1991	70	57	46	49	57	58	65	71	76	84	82	79
1992	72	58	49	46	56	62	69	77	79	81	83	77
1993	71	58	49	51	56	62	61	67	71	80	81	76
1994	70	58	50	50	54	62	68	73	78	83	83	78
1995	68	54	47	52	57	60	59	64	69	74	80	78
1996	69	62	53	52	59	62	63	70	77	82	82	76
1997	67	58	52	51	53	60	61	69	72	80	82	78
1998	68	60	50	52	54	60	60	63	70	78	84	78
1999	66	57	48	48	55	59	62	70	78	82	79	78
2000	71	60	51	52	57	60	64	71	79	80	81	76
2001	68	55	51	51	54	62	64	77	79	81	81	78
2002	70	60	49	50	55	60	65	71	78	83	81	79
2003	69	59	52	53	57	61	62	71	79	82	80	78

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Change in Average Simulated SJR Below Sack Dam (Head of Reach 4A) (Deg. F)
Alternative3 (2005) - Existing Conditions (2005)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Percent Change in Average Simulated SJR Below Sack Dam (Head of Reach 4A) (Deg. F)
From Existing Conditions (2005)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Sack Dam (Head of Reach 4A) (Deg. F)
Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					51	55	61	66	70	78	79	74
1981	69	57	48	46	56	58	65	73	80	82	80	77
1982	66	57	48	45	53	55	57	64	68	78	80	74
1983	66	54	50	47	52	54	56	62	65	69	78	43
1984	62	54	51	49	53	60	62	74	79	84	81	78
1985	65	55	47	43	54	58	66	72	79	81	78	74
1986	67	55	46	49	51	55	60	64	71	80	80	73
1987	67	58	47	45	55	59	71	75	78	80	80	76
1988	71	57	49	47	57	62	67	71	76	82	80	76
1989	69	57	48	46	54	60	67	72	77	81	81	75
1990	68	59	47	47	51	60	70	73	77	83	82	77
1991	70	58	45	47	57	57	64	71	76	84	82	79
1992	72	59	47	44	55	61	69	77	79	81	83	77
1993	71	59	47	49	55	61	63	68	72	80	82	77
1994	69	58	48	47	54	62	68	73	78	83	83	78
1995	68	54	46	51	55	55	58	63	67	71	82	78
1996	69	62	52	51	58	57	63	71	74	83	83	76
1997	67	58	52	49	52	60	63	70	74	81	83	79
1998	68	60	46	48	52	57	59	62	68	73	84	78
1999	66	57	47	46	54	58	61	70	78	84	81	78
2000	71	60	50	51	56	59	65	71	79	81	82	76
2001	68	55	47	47	53	61	64	77	79	81	81	78
2002	70	61	48	49	55	59	66	71	78	83	82	79
2003	69	59	52	52	56	60	62	71	78	83	80	78

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Sack Dam (Head of Reach 4A) (Deg. F)
Alternative4 (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					54	57	62	66	70	79	79	74
1981	67	55	48	47	56	59	66	73	80	81	79	76
1982	65	56	48	46	54	57	60	67	71	79	80	73
1983	65	52	49	48	52	55	58	63	66	70	78	59
1984	63	54	50	49	54	61	63	74	78	83	80	77
1985	64	54	48	45	55	59	67	72	79	80	78	73
1986	66	54	47	50	55	59	61	67	72	79	79	72
1987	65	56	47	47	55	60	71	75	78	80	80	76
1988	71	56	49	47	57	63	68	72	76	82	80	76
1989	69	56	48	46	54	61	68	72	77	81	81	75
1990	68	58	46	47	52	61	70	73	77	83	82	77
1991	70	57	45	47	57	58	65	71	76	84	82	79
1992	72	58	47	44	55	62	70	77	79	81	83	77
1993	71	58	47	49	56	62	63	68	72	80	80	76
1994	69	56	48	49	54	62	68	73	78	83	83	78
1995	68	53	46	52	57	60	62	66	71	73	80	77
1996	68	60	52	51	59	62	65	71	76	82	82	75
1997	67	57	51	51	53	61	64	70	74	80	81	78
1998	67	58	47	50	54	60	62	63	71	74	83	77
1999	66	56	47	47	55	59	62	71	77	82	79	77
2000	70	59	49	51	56	60	65	71	79	79	81	75
2001	67	54	49	49	53	62	65	77	79	80	80	77
2002	70	60	48	49	55	60	67	72	78	83	81	78
2003	69	58	51	52	57	61	62	71	79	82	80	77

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Change in Average Simulated SJR Below Sack Dam (Head of Reach 4A) (Deg. F)
Alternative4 (2005) - Existing Conditions (2005)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Percent Change in Average Simulated SJR Below Sack Dam (Head of Reach 4A) (Deg. F)
From Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					6%	2%	2%	0%	1%	1%	0%	-1%
1981	-2%	-3%	0%	2%	0%	2%	1%	0%	-1%	-1%	-1%	-1%
1982	-2%	-3%	1%	2%	2%	4%	6%	5%	5%	1%	0%	-1%
1983	-1%	-3%	-1%	3%	1%	1%	3%	1%	2%	1%	0%	37%
1984	1%	0%	-1%	0%	1%	2%	2%	0%	-1%	-1%	-1%	-1%
1985	-1%	-3%	1%	5%	1%	2%	1%	0%	0%	0%	0%	-1%
1986	-1%	-2%	1%	2%	7%	7%	2%	4%	2%	-1%	-1%	-1%
1987	-2%	-4%	0%	3%	0%	1%	1%	0%	0%	0%	0%	0%
1988	0%	-2%	-1%	0%	1%	2%	1%	0%	0%	0%	0%	0%
1989	0%	-2%	-1%	0%	1%	2%	1%	0%	0%	0%	0%	0%
1990	0%	-2%	0%	0%	1%	2%	0%	0%	0%	0%	0%	0%
1991	0%	-2%	0%	0%	0%	2%	1%	0%	0%	0%	0%	0%
1992	0%	-1%	0%	0%	1%	2%	0%	0%	0%	0%	0%	0%
1993	0%	-2%	0%	0%	1%	2%	1%	0%	0%	-1%	-2%	-2%
1994	-1%	-3%	1%	4%	1%	1%	0%	0%	0%	0%	0%	0%
1995	0%	-1%	0%	0%	5%	8%	7%	5%	6%	2%	-2%	-1%
1996	-1%	-3%	0%	1%	1%	8%	3%	0%	2%	-1%	-2%	-1%
1997	-1%	-2%	-1%	4%	2%	0%	1%	-1%	-1%	-2%	-2%	-1%
1998	-1%	-4%	3%	5%	4%	6%	4%	2%	5%	2%	-2%	-1%
1999	-1%	-1%	0%	1%	2%	2%	2%	0%	0%	-3%	-2%	-1%
2000	-2%	-3%	-1%	1%	1%	2%	1%	0%	0%	-2%	-2%	-1%
2001	-1%	-2%	3%	4%	1%	2%	1%	0%	0%	-1%	-1%	-1%
2002	0%	-2%	0%	0%	1%	2%	1%	0%	0%	0%	-1%	-1%
2003	0%	-2%	0%	0%	1%	2%	1%	0%	1%	-1%	-1%	-1%

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Sack Dam (Head of Reach 4A) (Deg. F)
Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					51	55	61	66	70	78	79	74
1981	69	57	48	46	56	58	65	73	80	82	80	77
1982	66	57	48	45	53	55	57	64	68	78	80	74
1983	66	54	50	47	52	54	56	62	65	69	78	43
1984	62	54	51	49	53	60	62	74	79	84	81	78
1985	65	55	47	43	54	58	66	72	79	81	78	74
1986	67	55	46	49	51	55	60	64	71	80	80	73
1987	67	58	47	45	55	59	71	75	78	80	80	76
1988	71	57	49	47	57	62	67	71	76	82	80	76
1989	69	57	48	46	54	60	67	72	77	81	81	75
1990	68	59	47	47	51	60	70	73	77	83	82	77
1991	70	58	45	47	57	57	64	71	76	84	82	79
1992	72	59	47	44	55	61	69	77	79	81	83	77
1993	71	59	47	49	55	61	63	68	72	80	82	77
1994	69	58	48	47	54	62	68	73	78	83	83	78
1995	68	54	46	51	55	55	58	63	67	71	82	78
1996	69	62	52	51	58	57	63	71	74	83	83	76
1997	67	58	52	49	52	60	63	70	74	81	83	79
1998	68	60	46	48	52	57	59	62	68	73	84	78
1999	66	57	47	46	54	58	61	70	78	84	81	78
2000	71	60	50	51	56	59	65	71	79	81	82	76
2001	68	55	47	47	53	61	64	77	79	81	81	78
2002	70	61	48	49	55	59	66	71	78	83	82	79
2003	69	59	52	52	56	60	62	71	78	83	80	78

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Sack Dam (Head of Reach 4A) (Deg. F)
Alternative5 (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					54	56	59	64	69	79	79	74
1981	69	57	50	49	57	59	65	72	80	81	79	77
1982	66	58	50	47	54	56	58	66	70	79	80	74
1983	66	53	49	48	52	55	58	63	65	70	77	44
1984	62	54	51	50	54	61	61	72	78	83	80	78
1985	65	55	49	47	55	59	66	72	79	80	78	74
1986	67	56	49	51	54	59	59	65	71	79	79	72
1987	67	58	49	48	56	60	71	75	78	79	79	76
1988	71	57	51	48	56	62	67	71	76	82	80	76
1989	69	57	50	48	54	60	68	73	77	81	81	75
1990	68	59	48	48	51	60	70	73	78	84	82	77
1991	70	57	46	48	57	58	65	71	76	84	82	79
1992	72	59	49	46	56	61	69	77	79	81	83	77
1993	71	59	49	50	55	61	61	67	71	79	80	76
1994	70	58	50	50	54	62	68	72	77	82	81	77
1995	68	54	48	52	56	59	59	65	69	81	83	78
1996	69	62	53	52	59	62	63	70	77	82	82	76
1997	67	58	52	51	53	60	61	69	72	80	81	78
1998	68	60	50	52	54	60	60	63	70	77	84	78
1999	66	57	48	48	55	59	62	70	77	82	79	78
2000	71	60	51	52	57	60	64	71	79	79	81	76
2001	68	55	52	51	54	62	64	77	78	80	80	77
2002	70	61	50	50	55	59	65	71	78	82	80	78
2003	69	60	53	52	56	60	61	71	78	82	80	78

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Change in Average Simulated SJR Below Sack Dam (Head of Reach 4A) (Deg. F)
Alternative5 (2005) - Existing Conditions (2005)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Percent Change in Average Simulated SJR Below Sack Dam (Head of Reach 4A) (Deg. F)
From Existing Conditions (2005)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Sack Dam (Head of Reach 4A) (Deg. F)
No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					50	54	58	63	67	77	78	72
1981	67	56	49	47	54	57	63	70	78	79	78	75
1982	65	57	48	45	51	54	55	62	66	76	78	72
1983	65	53	49	46	51	53	55	61	63	67	76	42
1984	61	54	50	49	52	58	58	70	76	82	79	76
1985	64	54	48	44	52	57	63	70	77	78	76	72
1986	65	54	47	49	50	54	58	64	69	78	78	71
1987	65	57	48	46	54	57	68	73	76	77	78	75
1988	69	56	50	47	55	60	64	69	74	80	78	74
1989	68	56	49	46	52	58	66	70	74	79	79	73
1990	66	58	48	47	50	58	68	71	76	81	80	75
1991	68	56	45	47	55	56	62	69	74	81	80	77
1992	71	58	48	45	54	59	67	74	76	79	81	75
1993	69	58	48	49	54	59	59	65	70	79	80	75
1994	68	57	48	48	52	60	66	70	75	81	81	76
1995	66	53	47	51	54	55	57	61	67	70	80	76
1996	68	61	53	51	57	57	60	68	75	80	81	74
1997	66	57	52	49	52	59	60	68	72	79	81	77
1998	66	59	49	50	52	56	58	61	66	71	81	76
1999	65	56	47	47	53	56	59	68	75	82	79	77
2000	69	59	50	50	55	58	61	69	77	78	80	75
2001	66	54	50	48	51	59	62	74	76	79	79	76
2002	69	60	48	49	53	57	63	68	75	81	80	77
2003	67	58	51	51	55	59	59	68	75	81	78	76

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Sack Dam (Head of Reach 4A) (Deg. F)
Alternative1 (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					54	56	60	65	69	80	79	74
1981	68	57	50	49	57	59	66	73	80	82	80	76
1982	65	57	51	48	55	57	58	66	69	78	79	73
1983	65	53	49	48	52	55	58	63	65	70	80	77
1984	65	54	51	50	54	61	61	73	78	83	80	77
1985	65	55	50	47	55	59	66	72	79	81	78	73
1986	66	55	49	51	55	59	60	65	71	79	79	72
1987	66	57	50	49	56	60	71	75	78	80	80	76
1988	71	57	50	49	57	62	67	71	76	82	80	76
1989	69	56	49	48	55	61	68	72	77	81	81	75
1990	68	58	48	49	52	61	70	73	78	84	82	77
1991	70	57	46	49	57	58	65	71	76	84	82	79
1992	72	58	49	46	56	62	69	77	79	81	83	77
1993	71	58	49	51	56	62	61	67	71	80	80	76
1994	69	58	51	51	54	62	68	73	78	83	83	78
1995	68	54	47	52	57	60	59	64	69	73	80	77
1996	69	61	54	52	59	62	63	70	77	82	82	75
1997	67	58	53	51	53	61	61	69	72	80	81	78
1998	67	59	51	53	54	60	60	63	70	77	82	77
1999	66	57	49	49	55	59	62	70	78	82	79	78
2000	70	60	52	53	57	60	64	71	79	80	81	75
2001	67	56	52	51	54	62	64	77	79	81	81	78
2002	70	60	49	50	55	60	65	71	78	83	81	79
2003	69	59	52	53	57	61	62	71	79	82	80	78

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Change in Average Simulated SJR Below Sack Dam (Head of Reach 4A) (Deg. F)
Alternative1 (2030) - No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					4	2	2	2	2	3	2	1
1981	1	1	2	2	2	3	3	3	2	2	2	1
1982	1	1	2	3	3	3	3	4	3	2	1	1
1983	1	0	0	2	1	2	3	2	2	2	4	35
1984	4	0	0	1	2	3	3	2	2	2	1	1
1985	1	1	2	3	3	3	3	3	2	2	2	1
1986	1	1	2	2	5	5	2	1	2	1	2	1
1987	1	1	2	2	2	3	3	2	2	2	2	2
1988	1	1	1	2	3	3	2	2	2	2	2	2
1989	1	0	0	2	2	2	2	3	2	2	2	2
1990	1	0	1	2	2	2	2	2	2	2	2	2
1991	1	1	1	2	2	2	2	2	2	2	2	2
1992	1	1	1	1	2	2	2	3	2	2	2	2
1993	1	0	1	1	2	2	2	2	1	1	0	1
1994	1	1	2	3	2	3	2	3	2	2	2	2
1995	1	1	1	1	3	5	3	3	2	4	0	1
1996	1	0	1	2	2	5	3	2	2	1	1	1
1997	1	1	1	3	2	2	2	1	0	1	0	1
1998	1	0	2	2	3	4	3	2	3	6	1	1
1999	1	1	2	2	2	3	3	3	3	1	0	1
2000	1	1	3	3	2	3	3	2	3	1	1	1
2001	1	1	2	3	2	3	3	3	2	2	2	2
2002	1	1	1	2	3	3	2	3	2	2	2	2
2003	1	0	1	2	2	3	2	3	3	1	1	1

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Percent Change in Average Simulated SJR Below Sack Dam (Head of Reach 4A) (Deg. F)
From No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					9%	4%	4%	3%	3%	4%	2%	2%
1981	1%	2%	4%	5%	4%	5%	5%	4%	3%	3%	2%	2%
1982	1%	2%	5%	6%	6%	6%	6%	6%	5%	3%	2%	1%
1983	1%	0%	-1%	3%	2%	3%	5%	3%	4%	4%	5%	82%
1984	7%	1%	1%	2%	5%	5%	5%	3%	2%	2%	2%	1%
1985	1%	2%	4%	6%	5%	5%	5%	4%	3%	3%	3%	2%
1986	2%	1%	4%	5%	9%	9%	3%	2%	3%	2%	2%	2%
1987	1%	1%	4%	5%	4%	5%	4%	3%	3%	3%	3%	2%
1988	2%	1%	1%	4%	5%	4%	3%	4%	3%	3%	3%	2%
1989	2%	0%	1%	4%	4%	4%	3%	4%	3%	3%	2%	3%
1990	2%	1%	1%	4%	4%	4%	3%	3%	3%	3%	2%	2%
1991	2%	1%	2%	4%	4%	4%	4%	4%	3%	3%	2%	2%
1992	2%	1%	2%	3%	4%	4%	3%	3%	3%	2%	2%	2%
1993	2%	0%	1%	3%	4%	4%	3%	2%	2%	1%	0%	1%
1994	2%	2%	5%	5%	4%	4%	4%	4%	3%	3%	2%	2%
1995	2%	1%	2%	3%	6%	9%	5%	5%	4%	6%	0%	2%
1996	2%	0%	2%	4%	4%	9%	5%	3%	3%	2%	1%	1%
1997	2%	1%	2%	5%	3%	3%	3%	2%	1%	1%	1%	1%
1998	1%	0%	4%	4%	5%	7%	5%	3%	5%	8%	1%	1%
1999	2%	1%	3%	5%	4%	5%	5%	4%	4%	1%	0%	1%
2000	1%	1%	5%	5%	4%	5%	4%	3%	3%	2%	1%	1%
2001	1%	3%	5%	6%	4%	5%	5%	4%	3%	3%	2%	2%
2002	2%	1%	2%	4%	5%	5%	4%	4%	3%	3%	2%	2%
2003	2%	1%	1%	3%	4%	4%	4%	4%	5%	1%	2%	2%

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Sack Dam (Head of Reach 4A) (Deg. F)
No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					50	54	58	63	67	77	78	72
1981	67	56	49	47	54	57	63	70	78	79	78	75
1982	65	57	48	45	51	54	55	62	66	76	78	72
1983	65	53	49	46	51	53	55	61	63	67	76	42
1984	61	54	50	49	52	58	58	70	76	82	79	76
1985	64	54	48	44	52	57	63	70	77	78	76	72
1986	65	54	47	49	50	54	58	64	69	78	78	71
1987	65	57	48	46	54	57	68	73	76	77	78	75
1988	69	56	50	47	55	60	64	69	74	80	78	74
1989	68	56	49	46	52	58	66	70	74	79	79	73
1990	66	58	48	47	50	58	68	71	76	81	80	75
1991	68	56	45	47	55	56	62	69	74	81	80	77
1992	71	58	48	45	54	59	67	74	76	79	81	75
1993	69	58	48	49	54	59	59	65	70	79	80	75
1994	68	57	48	48	52	60	66	70	75	81	81	76
1995	66	53	47	51	54	55	57	61	67	70	80	76
1996	68	61	53	51	57	57	60	68	75	80	81	74
1997	66	57	52	49	52	59	60	68	72	79	81	77
1998	66	59	49	50	52	56	58	61	66	71	81	76
1999	65	56	47	47	53	56	59	68	75	82	79	77
2000	69	59	50	50	55	58	61	69	77	78	80	75
2001	66	54	50	48	51	59	62	74	76	79	79	76
2002	69	60	48	49	53	57	63	68	75	81	80	77
2003	67	58	51	51	55	59	59	68	75	81	78	76

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Sack Dam (Head of Reach 4A) (Deg. F)
Alternative2 (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					54	56	60	65	69	80	79	74
1981	68	57	50	49	57	59	66	73	80	82	80	76
1982	65	58	51	48	55	57	58	66	69	78	80	73
1983	65	53	49	48	52	55	58	63	65	70	80	75
1984	63	54	51	50	54	61	61	73	78	83	80	77
1985	65	55	50	47	55	59	66	72	79	81	78	73
1986	66	55	50	51	55	59	60	65	71	79	79	72
1987	66	57	50	49	56	60	71	75	78	80	80	76
1988	71	57	50	49	57	62	67	71	76	82	80	76
1989	69	56	49	48	55	61	68	72	77	81	81	75
1990	68	58	48	49	52	61	70	73	78	84	82	77
1991	70	57	46	49	57	58	65	71	76	84	82	79
1992	72	58	49	46	56	62	69	77	79	81	83	77
1993	71	58	49	51	56	62	61	67	71	80	81	76
1994	69	58	51	51	54	62	68	73	78	83	83	78
1995	68	54	47	52	57	60	59	64	69	73	80	78
1996	69	61	54	52	59	62	63	70	77	82	82	76
1997	67	58	53	51	53	60	61	69	72	80	81	78
1998	67	59	51	53	54	60	60	63	70	77	82	77
1999	66	57	49	49	55	59	62	70	78	82	79	78
2000	70	60	53	53	57	60	64	71	79	80	81	75
2001	67	56	53	51	54	62	64	77	79	81	81	78
2002	70	60	49	50	55	60	65	71	78	83	81	79
2003	69	59	52	53	57	61	62	71	79	82	80	78

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Change in Average Simulated SJR Below Sack Dam (Head of Reach 4A) (Deg. F)
Alternative2 (2030) - No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					4	2	2	2	2	3	2	1
1981	0	1	2	2	2	3	3	2	2	2	2	1
1982	1	1	3	3	3	3	3	4	3	2	1	1
1983	1	0	0	2	1	2	3	2	2	2	4	32
1984	2	0	1	1	2	3	3	2	2	2	2	1
1985	1	1	2	3	3	3	3	3	2	2	2	1
1986	1	1	2	2	5	5	2	1	2	1	2	1
1987	1	0	2	2	2	3	3	3	2	2	2	2
1988	1	1	1	2	3	3	2	2	2	2	2	2
1989	1	0	0	2	2	2	2	3	2	2	2	2
1990	1	0	1	2	2	2	2	2	2	2	2	2
1991	1	1	1	2	2	2	2	2	2	2	2	2
1992	1	1	1	1	2	2	2	3	2	2	2	2
1993	1	0	1	1	2	2	2	1	1	1	0	1
1994	1	1	3	3	2	3	2	3	2	2	2	2
1995	1	1	1	1	3	5	3	3	2	4	0	1
1996	1	0	1	2	2	5	3	2	2	1	1	1
1997	1	1	1	3	2	2	2	1	0	1	1	1
1998	1	0	2	2	3	4	3	2	3	6	1	1
1999	1	1	2	2	2	3	3	3	3	1	0	1
2000	1	1	3	2	2	3	3	2	3	1	1	1
2001	1	2	3	3	2	3	3	3	2	2	2	2
2002	1	1	1	2	3	3	2	3	2	2	2	2
2003	1	0	1	2	2	3	2	3	3	1	1	1

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Percent Change in Average Simulated SJR Below Sack Dam (Head of Reach 4A) (Deg. F)
From No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					9%	4%	4%	3%	3%	4%	2%	2%
1981	1%	2%	4%	4%	4%	5%	5%	3%	3%	3%	2%	2%
1982	1%	2%	6%	6%	6%	6%	6%	6%	5%	3%	2%	2%
1983	1%	0%	-1%	4%	2%	3%	5%	3%	4%	4%	5%	77%
1984	3%	1%	1%	2%	5%	5%	5%	3%	2%	2%	2%	1%
1985	1%	2%	5%	6%	5%	5%	5%	4%	3%	3%	3%	2%
1986	1%	1%	5%	5%	9%	9%	3%	2%	3%	2%	2%	2%
1987	1%	1%	4%	5%	4%	5%	4%	3%	3%	3%	3%	2%
1988	2%	1%	1%	4%	5%	4%	3%	4%	3%	3%	3%	2%
1989	2%	0%	1%	4%	4%	4%	3%	4%	3%	3%	2%	3%
1990	2%	1%	1%	4%	4%	4%	3%	3%	3%	3%	2%	2%
1991	2%	1%	2%	4%	4%	4%	4%	4%	3%	3%	2%	2%
1992	2%	1%	2%	3%	4%	4%	3%	3%	3%	2%	2%	2%
1993	2%	0%	1%	3%	4%	4%	3%	2%	2%	1%	0%	1%
1994	2%	2%	5%	5%	4%	4%	4%	4%	3%	3%	2%	2%
1995	2%	1%	2%	3%	6%	9%	5%	5%	4%	5%	1%	2%
1996	1%	0%	2%	4%	4%	9%	5%	3%	3%	2%	1%	1%
1997	2%	1%	2%	5%	3%	3%	3%	2%	1%	1%	1%	1%
1998	1%	0%	5%	4%	5%	7%	5%	3%	5%	8%	1%	1%
1999	2%	1%	4%	4%	4%	5%	5%	4%	4%	1%	0%	1%
2000	1%	1%	6%	5%	4%	5%	4%	3%	3%	2%	1%	1%
2001	1%	3%	6%	6%	4%	5%	5%	4%	3%	3%	2%	2%
2002	2%	1%	2%	4%	5%	5%	4%	4%	3%	3%	2%	2%
2003	2%	1%	1%	3%	4%	4%	4%	4%	5%	1%	2%	2%

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Sack Dam (Head of Reach 4A) (Deg. F)
No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					50	54	58	63	67	77	78	72
1981	67	56	49	47	54	57	63	70	78	79	78	75
1982	65	57	48	45	51	54	55	62	66	76	78	72
1983	65	53	49	46	51	53	55	61	63	67	76	42
1984	61	54	50	49	52	58	58	70	76	82	79	76
1985	64	54	48	44	52	57	63	70	77	78	76	72
1986	65	54	47	49	50	54	58	64	69	78	78	71
1987	65	57	48	46	54	57	68	73	76	77	78	75
1988	69	56	50	47	55	60	64	69	74	80	78	74
1989	68	56	49	46	52	58	66	70	74	79	79	73
1990	66	58	48	47	50	58	68	71	76	81	80	75
1991	68	56	45	47	55	56	62	69	74	81	80	77
1992	71	58	48	45	54	59	67	74	76	79	81	75
1993	69	58	48	49	54	59	59	65	70	79	80	75
1994	68	57	48	48	52	60	66	70	75	81	81	76
1995	66	53	47	51	54	55	57	61	67	70	80	76
1996	68	61	53	51	57	57	60	68	75	80	81	74
1997	66	57	52	49	52	59	60	68	72	79	81	77
1998	66	59	49	50	52	56	58	61	66	71	81	76
1999	65	56	47	47	53	56	59	68	75	82	79	77
2000	69	59	50	50	55	58	61	69	77	78	80	75
2001	66	54	50	48	51	59	62	74	76	79	79	76
2002	69	60	48	49	53	57	63	68	75	81	80	77
2003	67	58	51	51	55	59	59	68	75	81	78	76

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Sack Dam (Head of Reach 4A) (Deg. F)
Alternative3 (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					54	56	60	65	69	80	79	74
1981	69	57	50	49	57	59	65	72	80	82	80	77
1982	66	57	50	47	54	57	58	66	70	79	80	74
1983	66	53	49	48	52	55	58	63	66	70	78	44
1984	62	54	51	50	54	61	61	73	78	83	80	78
1985	65	55	49	46	55	59	66	72	79	81	78	74
1986	67	55	49	51	55	59	60	65	71	79	79	73
1987	67	57	49	48	56	60	71	75	78	80	80	76
1988	71	57	50	49	57	62	67	71	76	82	80	76
1989	69	56	49	48	55	61	68	72	77	81	81	75
1990	68	58	48	49	52	61	70	73	78	84	82	77
1991	70	57	46	49	57	58	65	71	76	84	82	79
1992	72	58	49	46	56	62	69	77	79	81	83	77
1993	71	58	49	51	56	62	61	67	71	80	81	76
1994	70	58	50	50	54	62	68	73	78	83	83	78
1995	68	54	47	52	57	60	59	64	69	74	80	78
1996	69	62	53	52	59	62	63	70	77	82	82	76
1997	67	58	52	51	53	60	61	69	72	80	82	78
1998	68	60	50	52	54	60	60	63	70	78	84	78
1999	66	57	48	48	55	59	62	70	78	82	79	78
2000	71	60	51	52	57	60	64	71	79	80	81	76
2001	68	55	51	51	54	62	64	77	79	81	81	78
2002	70	60	49	50	55	60	65	71	78	83	81	79
2003	69	59	52	53	57	61	62	71	79	82	80	78

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Change in Average Simulated SJR Below Sack Dam (Head of Reach 4A) (Deg. F)
Alternative3 (2030) - No Action (2030)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Percent Change in Average Simulated SJR Below Sack Dam (Head of Reach 4A) (Deg. F)
From No Action (2030)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Sack Dam (Head of Reach 4A) (Deg. F)
No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					50	54	58	63	67	77	78	72
1981	67	56	49	47	54	57	63	70	78	79	78	75
1982	65	57	48	45	51	54	55	62	66	76	78	72
1983	65	53	49	46	51	53	55	61	63	67	76	42
1984	61	54	50	49	52	58	58	70	76	82	79	76
1985	64	54	48	44	52	57	63	70	77	78	76	72
1986	65	54	47	49	50	54	58	64	69	78	78	71
1987	65	57	48	46	54	57	68	73	76	77	78	75
1988	69	56	50	47	55	60	64	69	74	80	78	74
1989	68	56	49	46	52	58	66	70	74	79	79	73
1990	66	58	48	47	50	58	68	71	76	81	80	75
1991	68	56	45	47	55	56	62	69	74	81	80	77
1992	71	58	48	45	54	59	67	74	76	79	81	75
1993	69	58	48	49	54	59	59	65	70	79	80	75
1994	68	57	48	48	52	60	66	70	75	81	81	76
1995	66	53	47	51	54	55	57	61	67	70	80	76
1996	68	61	53	51	57	57	60	68	75	80	81	74
1997	66	57	52	49	52	59	60	68	72	79	81	77
1998	66	59	49	50	52	56	58	61	66	71	81	76
1999	65	56	47	47	53	56	59	68	75	82	79	77
2000	69	59	50	50	55	58	61	69	77	78	80	75
2001	66	54	50	48	51	59	62	74	76	79	79	76
2002	69	60	48	49	53	57	63	68	75	81	80	77
2003	67	58	51	51	55	59	59	68	75	81	78	76

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Sack Dam (Head of Reach 4A) (Deg. F)
Alternative4 (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					54	56	60	65	70	80	79	74
1981	67	56	48	48	56	59	65	72	80	81	79	76
1982	65	56	49	47	54	57	59	66	71	79	80	73
1983	65	53	49	48	52	55	58	63	66	70	78	52
1984	63	54	50	49	54	61	61	72	78	83	80	77
1985	64	54	48	46	55	59	66	72	79	81	78	73
1986	66	54	48	51	55	59	60	66	72	79	79	72
1987	66	56	47	47	55	60	71	75	78	80	80	76
1988	71	56	50	48	57	63	67	71	76	82	80	76
1989	69	56	48	48	55	61	68	73	77	81	81	75
1990	68	58	47	48	52	61	70	73	78	84	82	77
1991	70	57	46	48	57	58	65	71	76	84	82	79
1992	72	58	48	46	56	62	70	77	79	81	83	77
1993	71	58	48	50	56	62	61	67	72	80	80	76
1994	69	56	49	50	54	63	68	73	78	83	83	78
1995	68	53	47	52	57	60	60	65	70	73	80	77
1996	68	60	52	51	59	62	63	70	77	82	82	75
1997	67	57	52	51	53	60	61	69	73	80	81	78
1998	67	58	49	51	54	60	60	63	70	76	83	77
1999	66	56	48	48	55	59	61	70	77	82	79	78
2000	70	59	50	52	56	60	64	71	79	79	81	75
2001	67	54	50	50	53	62	65	77	79	81	81	78
2002	70	60	49	50	55	60	66	71	78	83	81	79
2003	69	58	51	52	57	61	62	71	79	82	80	78

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Change in Average Simulated SJR Below Sack Dam (Head of Reach 4A) (Deg. F)
Alternative4 (2030) - No Action (2030)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Percent Change in Average Simulated SJR Below Sack Dam (Head of Reach 4A) (Deg. F)
From No Action (2030)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Sand Slough Control Structure (Head of Reach 4B1) (Deg. F)
Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					51	56	62	68	71	79	82	76
1981	70	58	48	47	56	59	66	74	83	84	82	79
1982	67	58	48	45	53	56	58	65	69	80	82	75
1983	67	54	50	47	52	55	57	63	66	71	82	57
1984	63	55	50	49	54	61	63	76	81	86	83	79
1985	66	55	47	43	54	59	67	74	81	84	80	75
1986	68	55	47	49	52	56	61	66	72	82	81	74
1987	68	58	47	45	55	60	72	77	80	81	81	77
1988	72	57	50	47	57	63	68	74	79	85	82	78
1989	70	57	48	46	54	61	68	75	79	83	82	77
1990	69	59	48	47	51	61	71	75	79	85	84	78
1991	71	58	46	47	57	58	66	74	79	85	83	80
1992	73	59	48	45	55	62	71	78	80	82	84	78
1993	72	59	48	49	56	62	64	70	74	82	83	78
1994	71	58	48	48	54	63	69	75	80	85	84	79
1995	69	54	46	51	55	56	59	64	68	73	83	80
1996	71	63	53	51	59	58	64	72	77	84	84	77
1997	68	58	52	49	53	61	65	71	76	83	84	80
1998	69	60	48	49	52	57	60	63	69	74	85	80
1999	67	58	46	46	55	59	62	73	80	85	82	80
2000	72	61	50	51	56	60	66	73	81	82	83	77
2001	69	55	49	47	53	62	65	80	81	82	82	79
2002	71	61	48	49	55	60	67	73	81	85	83	80
2003	70	60	52	52	57	62	63	73	80	84	82	79

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Sand Slough Control Structure (Head of Reach 4B1) (Deg. F)
Alternative1 (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					54	57	63	68	71	82	81	75
1981	69	57	49	48	57	60	67	75	82	83	81	78
1982	66	58	49	46	55	58	61	68	72	80	81	74
1983	66	53	49	48	52	56	59	64	67	71	81	78
1984	66	55	50	49	54	62	64	76	80	85	82	78
1985	65	55	48	45	55	60	68	74	81	83	80	74
1986	67	55	47	50	55	60	62	68	73	81	81	73
1987	67	58	48	47	56	61	72	77	80	81	81	77
1988	71	57	50	47	58	64	69	74	79	85	82	78
1989	70	57	48	46	54	61	69	75	79	83	82	77
1990	69	59	47	47	51	62	71	75	79	85	84	78
1991	71	57	45	47	57	59	66	74	79	85	83	80
1992	73	59	48	45	55	63	71	78	80	82	84	78
1993	72	58	48	49	56	63	65	70	74	81	82	77
1994	70	58	49	49	54	63	70	75	80	85	84	79
1995	69	54	46	52	57	60	63	67	72	74	82	79
1996	70	62	53	51	59	63	66	72	77	83	83	76
1997	67	58	52	51	54	62	65	71	75	81	83	79
1998	68	60	49	51	54	61	62	64	71	76	84	78
1999	67	57	47	47	55	60	63	73	80	84	81	79
2000	71	60	51	51	57	61	67	73	81	81	82	76
2001	68	55	51	50	54	63	66	80	81	82	82	78
2002	71	60	48	49	56	61	68	74	80	85	83	80
2003	70	59	52	52	57	62	63	73	81	84	81	79

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Change in Average Simulated SJR Below Sand Slough Control Structure (Head of Reach 4B1) (Deg. F)
Alternative1 (2005) - Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					3	1	1	0	0	2	-1	-1
1981	-1	-1	1	1	0	1	1	0	-1	-1	-1	-1
1982	-1	0	1	1	1	2	3	3	3	0	-1	-1
1983	-1	0	0	2	0	1	2	1	1	0	-1	21
1984	3	0	0	0	0	1	1	0	-1	-1	-1	-1
1985	-1	0	1	2	1	1	1	0	-1	-1	-1	-1
1986	-1	0	1	1	3	4	1	2	1	-1	-1	-1
1987	-1	-1	1	1	1	1	0	0	0	0	0	0
1988	-1	-1	0	0	0	1	0	0	0	0	0	0
1989	0	-1	0	0	0	1	0	0	0	0	0	0
1990	0	-1	0	0	0	1	0	0	0	0	0	0
1991	0	-1	0	0	0	1	0	0	0	0	0	0
1992	0	0	0	0	0	1	0	0	0	0	0	0
1993	0	-1	0	0	0	1	0	0	-1	0	-1	-1
1994	-1	0	1	1	1	1	0	0	0	0	0	0
1995	0	0	0	0	2	4	4	3	3	1	-2	-1
1996	-1	-1	0	0	1	5	2	0	0	-1	-1	-1
1997	-1	0	0	2	1	0	0	0	-1	-1	-1	-1
1998	-1	-1	2	3	2	4	2	1	2	1	-1	-1
1999	0	0	1	0	1	1	1	0	-1	-1	-1	-1
2000	-1	-1	1	1	1	1	1	0	0	-1	-1	-1
2001	-1	0	2	2	0	1	1	0	0	0	-1	0
2002	0	0	0	0	0	1	0	0	0	0	0	0
2003	0	0	0	0	0	1	1	0	0	-1	-1	0

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Percent Change in Average Simulated SJR Below Sand Slough Control Structure (Head of Reach 4B1) (Deg. F
From Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					6%	2%	2%	0%	0%	3%	-1%	-1%
1981	-2%	-1%	2%	2%	1%	2%	1%	0%	-1%	-1%	-1%	-1%
1982	-1%	0%	3%	3%	2%	4%	6%	5%	4%	0%	-1%	-1%
1983	-1%	-1%	-1%	3%	1%	1%	3%	1%	1%	1%	-1%	36%
1984	5%	0%	0%	0%	1%	2%	2%	0%	-1%	-1%	-1%	-1%
1985	-1%	0%	2%	4%	1%	2%	1%	0%	-1%	-1%	-1%	-1%
1986	-1%	-1%	2%	2%	6%	7%	2%	4%	1%	-1%	-1%	-1%
1987	-2%	-1%	2%	3%	1%	2%	1%	0%	0%	0%	0%	-1%
1988	-1%	-1%	0%	0%	1%	1%	0%	0%	0%	0%	0%	0%
1989	0%	-1%	0%	0%	0%	1%	1%	0%	0%	0%	0%	0%
1990	0%	-1%	0%	0%	0%	1%	0%	0%	0%	0%	0%	0%
1991	0%	-1%	0%	0%	0%	1%	1%	0%	0%	0%	0%	0%
1992	0%	0%	0%	0%	0%	1%	0%	0%	0%	0%	0%	0%
1993	0%	-1%	0%	0%	1%	1%	1%	0%	-1%	0%	-2%	-2%
1994	-1%	-1%	2%	3%	1%	1%	0%	0%	0%	0%	0%	0%
1995	0%	-1%	0%	0%	4%	8%	6%	4%	5%	1%	-2%	-1%
1996	-1%	-2%	0%	1%	1%	8%	3%	1%	0%	-1%	-1%	-1%
1997	-1%	0%	0%	4%	2%	0%	1%	0%	-1%	-1%	-2%	-2%
1998	-1%	-1%	3%	5%	4%	7%	4%	2%	3%	2%	-1%	-1%
1999	-1%	0%	2%	1%	1%	2%	2%	0%	-1%	-2%	-2%	-1%
2000	-1%	-1%	1%	1%	1%	2%	2%	0%	-1%	-1%	-1%	-1%
2001	-1%	1%	4%	4%	1%	2%	1%	0%	0%	0%	-1%	0%
2002	0%	-1%	0%	0%	0%	1%	1%	0%	0%	0%	0%	-1%
2003	0%	-1%	0%	0%	0%	1%	1%	0%	0%	-1%	-1%	-1%

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Sand Slough Control Structure (Head of Reach 4B1) (Deg. F)
Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					51	56	62	68	71	79	82	76
1981	70	58	48	47	56	59	66	74	83	84	82	79
1982	67	58	48	45	53	56	58	65	69	80	82	75
1983	67	54	50	47	52	55	57	63	66	71	82	57
1984	63	55	50	49	54	61	63	76	81	86	83	79
1985	66	55	47	43	54	59	67	74	81	84	80	75
1986	68	55	47	49	52	56	61	66	72	82	81	74
1987	68	58	47	45	55	60	72	77	80	81	81	77
1988	72	57	50	47	57	63	68	74	79	85	82	78
1989	70	57	48	46	54	61	68	75	79	83	82	77
1990	69	59	48	47	51	61	71	75	79	85	84	78
1991	71	58	46	47	57	58	66	74	79	85	83	80
1992	73	59	48	45	55	62	71	78	80	82	84	78
1993	72	59	48	49	56	62	64	70	74	82	83	78
1994	71	58	48	48	54	63	69	75	80	85	84	79
1995	69	54	46	51	55	56	59	64	68	73	83	80
1996	71	63	53	51	59	58	64	72	77	84	84	77
1997	68	58	52	49	53	61	65	71	76	83	84	80
1998	69	60	48	49	52	57	60	63	69	74	85	80
1999	67	58	46	46	55	59	62	73	80	85	82	80
2000	72	61	50	51	56	60	66	73	81	82	83	77
2001	69	55	49	47	53	62	65	80	81	82	82	79
2002	71	61	48	49	55	60	67	73	81	85	83	80
2003	70	60	52	52	57	62	63	73	80	84	82	79

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Sand Slough Control Structure (Head of Reach 4B1) (Deg. F)
Alternative2 (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					54	57	63	68	71	81	81	75
1981	68	57	49	48	57	60	67	74	82	83	81	78
1982	66	58	50	46	55	58	61	68	72	81	81	75
1983	67	53	49	48	52	56	59	64	67	71	81	71
1984	64	55	50	49	54	62	64	76	80	85	82	78
1985	65	55	49	45	55	60	68	74	81	83	80	74
1986	67	55	49	50	55	60	62	68	73	81	81	73
1987	66	57	48	47	56	61	72	77	80	81	81	77
1988	71	56	50	47	58	64	69	74	79	85	82	78
1989	70	57	48	46	54	61	69	75	79	83	82	77
1990	69	59	47	47	51	62	71	75	79	85	84	78
1991	71	57	45	47	57	59	66	74	79	85	83	80
1992	73	59	48	45	55	63	71	78	80	82	84	78
1993	72	58	48	49	56	63	64	70	74	81	82	77
1994	70	58	50	49	54	63	70	75	80	85	84	79
1995	69	54	46	52	57	60	63	67	72	74	82	79
1996	69	61	53	51	59	63	66	72	77	83	83	76
1997	67	58	52	51	54	62	65	71	75	81	83	79
1998	68	59	50	52	54	61	62	64	71	76	84	79
1999	67	57	47	46	55	60	63	73	79	84	81	79
2000	71	60	51	51	57	61	67	73	81	81	82	76
2001	68	56	52	50	54	63	66	80	81	82	82	78
2002	71	60	48	49	56	61	68	74	81	85	83	80
2003	70	59	52	52	57	62	63	73	81	84	81	79

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Change in Average Simulated SJR Below Sand Slough Control Structure (Head of Reach 4B1) (Deg. F)
Alternative2 (2005) - Existing Conditions (2005)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Percent Change in Average Simulated SJR Below Sand Slough Control Structure (Head of Reach 4B1) (Deg. F
From Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					6%	2%	2%	0%	0%	3%	-1%	-1%
1981	-2%	-1%	3%	2%	1%	2%	1%	0%	-1%	-1%	-1%	-1%
1982	-2%	0%	4%	3%	2%	3%	6%	5%	4%	1%	-1%	-1%
1983	-1%	-1%	0%	3%	1%	1%	3%	1%	1%	1%	-1%	25%
1984	1%	0%	0%	0%	1%	2%	1%	0%	-1%	-1%	-1%	-1%
1985	-2%	0%	3%	5%	1%	2%	1%	0%	-1%	-1%	-1%	-1%
1986	-2%	0%	4%	3%	6%	7%	2%	4%	1%	-1%	-1%	-1%
1987	-2%	-2%	3%	3%	1%	2%	0%	0%	0%	0%	0%	0%
1988	-1%	-1%	0%	0%	1%	1%	0%	0%	0%	0%	0%	0%
1989	0%	-1%	0%	0%	0%	1%	1%	0%	0%	0%	0%	0%
1990	0%	-1%	0%	0%	0%	1%	0%	0%	0%	0%	0%	0%
1991	0%	-1%	0%	0%	0%	1%	1%	0%	0%	0%	0%	0%
1992	0%	0%	0%	0%	0%	1%	0%	0%	0%	0%	0%	0%
1993	0%	-1%	0%	0%	1%	1%	0%	0%	-1%	0%	-2%	-2%
1994	-2%	-1%	3%	3%	1%	1%	0%	0%	0%	0%	0%	0%
1995	0%	-1%	0%	0%	4%	8%	6%	4%	5%	1%	-2%	-1%
1996	-2%	-2%	0%	1%	1%	8%	3%	0%	0%	-1%	-1%	-1%
1997	-1%	-1%	0%	4%	2%	0%	1%	0%	-1%	-2%	-2%	-1%
1998	-2%	-2%	4%	6%	4%	6%	4%	2%	3%	3%	-1%	-1%
1999	0%	0%	1%	0%	1%	2%	2%	0%	-1%	-2%	-2%	-1%
2000	-2%	-2%	2%	1%	1%	2%	1%	0%	-1%	-2%	-1%	-1%
2001	-1%	1%	6%	5%	1%	2%	1%	0%	0%	0%	-1%	-1%
2002	0%	-1%	0%	0%	0%	1%	1%	0%	0%	0%	0%	0%
2003	0%	-1%	0%	0%	0%	1%	1%	0%	0%	-1%	-1%	-1%

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Sand Slough Control Structure (Head of Reach 4B1) (Deg. F)
Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					51	56	62	68	71	79	82	76
1981	70	58	48	47	56	59	66	74	83	84	82	79
1982	67	58	48	45	53	56	58	65	69	80	82	75
1983	67	54	50	47	52	55	57	63	66	71	82	57
1984	63	55	50	49	54	61	63	76	81	86	83	79
1985	66	55	47	43	54	59	67	74	81	84	80	75
1986	68	55	47	49	52	56	61	66	72	82	81	74
1987	68	58	47	45	55	60	72	77	80	81	81	77
1988	72	57	50	47	57	63	68	74	79	85	82	78
1989	70	57	48	46	54	61	68	75	79	83	82	77
1990	69	59	48	47	51	61	71	75	79	85	84	78
1991	71	58	46	47	57	58	66	74	79	85	83	80
1992	73	59	48	45	55	62	71	78	80	82	84	78
1993	72	59	48	49	56	62	64	70	74	82	83	78
1994	71	58	48	48	54	63	69	75	80	85	84	79
1995	69	54	46	51	55	56	59	64	68	73	83	80
1996	71	63	53	51	59	58	64	72	77	84	84	77
1997	68	58	52	49	53	61	65	71	76	83	84	80
1998	69	60	48	49	52	57	60	63	69	74	85	80
1999	67	58	46	46	55	59	62	73	80	85	82	80
2000	72	61	50	51	56	60	66	73	81	82	83	77
2001	69	55	49	47	53	62	65	80	81	82	82	79
2002	71	61	48	49	55	60	67	73	81	85	83	80
2003	70	60	52	52	57	62	63	73	80	84	82	79

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Sand Slough Control Structure (Head of Reach 4B1) (Deg. F)
Alternative3 (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					54	57	61	66	71	81	81	75
1981	70	58	49	48	57	60	67	74	82	83	81	78
1982	67	57	49	47	55	58	59	67	72	81	82	75
1983	67	54	49	48	52	56	59	64	67	71	81	57
1984	63	55	50	49	54	62	62	74	80	85	82	79
1985	66	55	48	46	55	60	67	74	81	83	80	75
1986	68	55	48	50	55	60	60	67	72	81	81	74
1987	68	58	48	47	56	61	72	78	80	82	81	77
1988	72	57	50	48	58	63	68	73	79	85	82	78
1989	70	57	49	48	55	61	69	75	79	83	82	77
1990	69	59	48	48	52	62	71	75	79	85	83	78
1991	71	57	46	48	57	59	66	73	79	85	83	80
1992	73	59	48	46	56	63	71	78	80	82	84	78
1993	72	58	48	50	56	63	62	68	73	81	82	78
1994	71	58	49	50	54	63	69	75	80	85	84	79
1995	69	54	47	52	57	60	60	65	71	76	82	79
1996	70	62	53	52	59	62	64	71	79	83	83	77
1997	68	58	52	51	54	61	62	70	74	81	83	79
1998	69	60	49	52	54	61	61	64	71	80	85	80
1999	67	58	48	47	55	60	62	72	80	84	81	79
2000	72	61	51	52	57	61	65	72	81	81	82	77
2001	69	55	51	50	54	62	66	80	81	82	82	79
2002	71	60	49	50	56	60	67	73	80	85	83	80
2003	70	59	52	52	57	62	63	73	81	84	81	79

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Change in Average Simulated SJR Below Sand Slough Control Structure (Head of Reach 4B1) (Deg. F)
Alternative3 (2005) - Existing Conditions (2005)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Percent Change in Average Simulated SJR Below Sand Slough Control Structure (Head of Reach 4B1) (Deg. F
From Existing Conditions (2005)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Sand Slough Control Structure (Head of Reach 4B1) (Deg. F)
Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					51	56	62	68	71	79	82	76
1981	70	58	48	47	56	59	66	74	83	84	82	79
1982	67	58	48	45	53	56	58	65	69	80	82	75
1983	67	54	50	47	52	55	57	63	66	71	82	57
1984	63	55	50	49	54	61	63	76	81	86	83	79
1985	66	55	47	43	54	59	67	74	81	84	80	75
1986	68	55	47	49	52	56	61	66	72	82	81	74
1987	68	58	47	45	55	60	72	77	80	81	81	77
1988	72	57	50	47	57	63	68	74	79	85	82	78
1989	70	57	48	46	54	61	68	75	79	83	82	77
1990	69	59	48	47	51	61	71	75	79	85	84	78
1991	71	58	46	47	57	58	66	74	79	85	83	80
1992	73	59	48	45	55	62	71	78	80	82	84	78
1993	72	59	48	49	56	62	64	70	74	82	83	78
1994	71	58	48	48	54	63	69	75	80	85	84	79
1995	69	54	46	51	55	56	59	64	68	73	83	80
1996	71	63	53	51	59	58	64	72	77	84	84	77
1997	68	58	52	49	53	61	65	71	76	83	84	80
1998	69	60	48	49	52	57	60	63	69	74	85	80
1999	67	58	46	46	55	59	62	73	80	85	82	80
2000	72	61	50	51	56	60	66	73	81	82	83	77
2001	69	55	49	47	53	62	65	80	81	82	82	79
2002	71	61	48	49	55	60	67	73	81	85	83	80
2003	70	60	52	52	57	62	63	73	80	84	82	79

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Sand Slough Control Structure (Head of Reach 4B1) (Deg. F)
Alternative4 (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					54	57	63	68	72	81	81	75
1981	69	56	48	47	56	60	67	74	82	83	81	78
1982	66	56	48	46	54	58	61	68	73	81	82	75
1983	66	53	49	48	52	56	59	64	67	71	81	66
1984	64	55	50	49	54	62	64	75	80	84	81	78
1985	65	54	47	45	55	60	68	74	81	82	80	74
1986	67	54	47	49	55	60	62	69	74	81	80	73
1987	67	57	47	46	55	61	72	77	80	81	81	77
1988	72	57	49	47	58	64	69	74	79	85	82	78
1989	70	56	48	46	54	62	69	75	79	83	82	77
1990	69	58	47	47	51	62	71	75	79	85	84	78
1991	71	57	45	47	57	59	66	74	79	85	83	80
1992	73	59	48	45	55	63	71	78	80	82	84	78
1993	72	58	48	49	56	63	65	70	74	81	81	77
1994	70	57	48	48	54	63	69	75	80	85	84	79
1995	69	54	46	52	57	60	63	67	72	74	82	79
1996	70	61	52	51	59	62	66	72	77	83	83	76
1997	67	57	51	51	53	61	65	71	75	81	82	79
1998	68	59	48	50	54	61	62	64	72	76	84	79
1999	67	57	47	46	55	60	63	72	79	83	81	79
2000	71	59	50	51	56	61	67	73	80	81	82	76
2001	68	54	49	49	53	63	66	80	81	82	82	78
2002	71	60	48	49	55	61	68	74	80	85	83	80
2003	70	59	52	52	57	62	63	73	80	83	81	79

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Change in Average Simulated SJR Below Sand Slough Control Structure (Head of Reach 4B1) (Deg. F)
Alternative4 (2005) - Existing Conditions (2005)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Percent Change in Average Simulated SJR Below Sand Slough Control Structure (Head of Reach 4B1) (Deg. F
From Existing Conditions (2005)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Sand Slough Control Structure (Head of Reach 4B1) (Deg. F)
Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					51	56	62	68	71	79	82	76
1981	70	58	48	47	56	59	66	74	83	84	82	79
1982	67	58	48	45	53	56	58	65	69	80	82	75
1983	67	54	50	47	52	55	57	63	66	71	82	57
1984	63	55	50	49	54	61	63	76	81	86	83	79
1985	66	55	47	43	54	59	67	74	81	84	80	75
1986	68	55	47	49	52	56	61	66	72	82	81	74
1987	68	58	47	45	55	60	72	77	80	81	81	77
1988	72	57	50	47	57	63	68	74	79	85	82	78
1989	70	57	48	46	54	61	68	75	79	83	82	77
1990	69	59	48	47	51	61	71	75	79	85	84	78
1991	71	58	46	47	57	58	66	74	79	85	83	80
1992	73	59	48	45	55	62	71	78	80	82	84	78
1993	72	59	48	49	56	62	64	70	74	82	83	78
1994	71	58	48	48	54	63	69	75	80	85	84	79
1995	69	54	46	51	55	56	59	64	68	73	83	80
1996	71	63	53	51	59	58	64	72	77	84	84	77
1997	68	58	52	49	53	61	65	71	76	83	84	80
1998	69	60	48	49	52	57	60	63	69	74	85	80
1999	67	58	46	46	55	59	62	73	80	85	82	80
2000	72	61	50	51	56	60	66	73	81	82	83	77
2001	69	55	49	47	53	62	65	80	81	82	82	79
2002	71	61	48	49	55	60	67	73	81	85	83	80
2003	70	60	52	52	57	62	63	73	80	84	82	79

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Sand Slough Control Structure (Head of Reach 4B1) (Deg. F)
Alternative5 (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					54	57	61	66	70	81	81	75
1981	70	58	49	48	57	60	66	74	81	83	81	78
1982	67	58	49	47	54	57	59	67	72	81	82	75
1983	67	54	49	47	52	56	59	64	67	71	81	57
1984	63	55	50	49	54	62	62	74	79	84	82	79
1985	66	55	48	46	55	60	67	73	80	82	79	75
1986	68	56	48	50	55	60	60	67	72	80	80	74
1987	68	58	49	48	56	61	72	77	79	80	81	77
1988	72	57	51	48	57	63	68	73	79	85	82	78
1989	70	57	49	47	54	61	69	75	79	83	82	77
1990	69	59	48	48	51	61	71	75	79	85	83	78
1991	71	58	46	48	57	59	66	74	79	85	83	80
1992	73	59	49	46	56	62	71	78	80	82	84	78
1993	72	59	49	50	56	62	62	69	73	81	82	77
1994	71	58	50	50	54	63	69	74	79	83	82	78
1995	69	54	47	52	56	60	60	66	71	82	84	79
1996	70	62	53	52	59	62	64	70	78	83	83	77
1997	68	58	52	51	54	61	63	70	74	81	83	79
1998	69	60	49	52	54	61	61	64	71	78	85	80
1999	67	58	48	47	55	60	62	72	79	83	81	79
2000	72	60	51	52	57	61	65	72	80	81	82	77
2001	68	55	51	50	54	62	65	79	80	81	81	78
2002	71	61	49	50	55	60	67	73	80	84	82	79
2003	70	60	52	52	57	61	62	72	80	83	81	79

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Change in Average Simulated SJR Below Sand Slough Control Structure (Head of Reach 4B1) (Deg. F)
Alternative5 (2005) - Existing Conditions (2005)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Percent Change in Average Simulated SJR Below Sand Slough Control Structure (Head of Reach 4B1) (Deg. F
From Existing Conditions (2005)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Sand Slough Control Structure (Head of Reach 4B1) (Deg. F)
No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					50	55	59	65	69	78	80	74
1981	69	57	48	47	55	58	64	72	80	82	80	77
1982	66	57	48	45	52	55	56	63	68	78	80	74
1983	66	53	49	46	51	54	56	62	65	69	79	55
1984	62	54	50	48	52	60	59	72	78	84	81	78
1985	65	54	47	44	53	58	65	72	79	81	79	73
1986	67	55	47	49	51	55	59	65	71	80	80	73
1987	67	57	48	46	54	59	70	75	78	79	80	76
1988	71	56	49	47	56	61	66	71	76	83	80	76
1989	69	56	48	46	53	60	67	73	77	81	80	75
1990	68	58	47	47	50	60	69	73	77	83	82	77
1991	70	57	45	47	56	57	64	71	77	83	81	78
1992	72	58	48	45	54	61	69	76	78	80	82	77
1993	70	58	48	49	54	61	60	67	72	81	81	77
1994	70	57	48	48	53	61	67	72	78	83	82	77
1995	68	53	46	51	55	55	58	63	68	71	81	78
1996	69	62	53	51	58	58	61	69	77	82	82	76
1997	67	57	51	49	52	60	61	69	74	81	82	78
1998	67	60	49	50	52	57	58	62	67	72	83	78
1999	66	57	47	46	54	58	60	70	78	83	81	78
2000	71	60	50	50	55	59	62	71	79	80	82	76
2001	67	54	50	49	52	60	63	77	79	80	81	78
2002	70	60	48	49	54	58	65	71	78	83	81	78
2003	69	59	52	51	56	60	61	70	78	83	80	78

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Sand Slough Control Structure (Head of Reach 4B1) (Deg. F)
Alternative1 (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					54	57	61	66	71	81	81	75
1981	69	57	50	49	57	60	67	74	82	83	81	78
1982	66	58	50	47	55	58	59	67	71	80	81	74
1983	66	54	49	48	52	56	59	64	67	71	81	78
1984	66	55	50	49	54	62	62	74	80	85	82	78
1985	65	55	49	46	55	60	67	74	81	83	80	75
1986	67	55	49	51	55	60	60	67	72	81	81	73
1987	67	58	49	48	56	61	72	78	81	82	81	77
1988	72	57	50	48	58	63	68	73	79	85	82	78
1989	70	57	49	48	55	61	69	75	79	83	82	77
1990	69	59	48	48	52	62	71	75	79	85	83	78
1991	71	57	46	48	57	59	66	73	79	85	83	80
1992	73	59	48	46	56	63	71	78	80	82	84	78
1993	72	58	48	50	56	63	62	68	73	81	82	77
1994	70	58	50	50	54	63	69	75	80	85	84	79
1995	69	54	47	52	57	60	60	65	71	75	82	79
1996	70	62	53	52	59	62	64	71	79	83	83	76
1997	68	58	52	51	54	61	63	71	74	81	83	79
1998	68	60	50	52	54	61	61	64	71	78	84	78
1999	67	57	48	48	56	60	63	72	80	84	81	79
2000	71	60	52	52	57	61	65	73	81	81	82	76
2001	68	55	52	51	54	62	66	80	81	82	82	79
2002	71	60	49	50	56	61	67	73	80	85	83	80
2003	70	59	52	52	57	62	63	73	81	84	81	79

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Change in Average Simulated SJR Below Sand Slough Control Structure (Head of Reach 4B1) (Deg. F)
Alternative1 (2030) - No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					4	2	2	2	2	3	1	1
1981	0	1	2	2	2	2	2	2	2	1	1	1
1982	1	1	2	2	2	3	3	4	3	2	1	1
1983	0	0	0	2	1	2	3	2	2	2	1	23
1984	4	0	0	1	2	2	3	2	1	1	1	0
1985	0	1	2	2	2	2	3	2	2	1	1	1
1986	1	0	2	2	4	5	2	1	2	1	1	1
1987	0	0	2	2	2	2	2	2	2	2	2	2
1988	1	1	0	1	2	2	2	2	2	2	2	2
1989	1	0	0	1	2	2	2	2	2	2	2	2
1990	1	0	0	1	2	2	2	2	2	2	2	2
1991	1	1	1	1	2	2	2	2	2	2	2	2
1992	1	1	1	1	2	2	2	2	2	2	2	1
1993	1	0	1	1	2	2	2	1	1	1	0	0
1994	1	1	2	2	2	2	2	2	2	2	2	1
1995	1	1	1	1	2	5	3	3	2	4	1	1
1996	1	0	1	1	2	5	3	2	2	1	1	1
1997	1	1	1	3	2	1	2	1	0	0	0	0
1998	0	0	2	2	2	4	3	2	3	6	1	0
1999	1	0	1	2	2	2	3	2	2	0	0	0
2000	0	0	2	2	2	2	2	2	2	1	1	1
2001	1	1	2	2	2	2	2	2	2	2	2	1
2002	1	1	1	1	2	2	2	2	2	2	2	2
2003	1	0	1	1	2	2	2	2	3	1	1	1

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Percent Change in Average Simulated SJR Below Sand Slough Control Structure (Head of Reach 4B1) (Deg. F
From No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					8%	4%	3%	3%	3%	4%	1%	1%
1981	0%	1%	3%	4%	3%	4%	4%	3%	2%	2%	1%	1%
1982	1%	1%	4%	5%	5%	5%	5%	6%	5%	2%	1%	1%
1983	1%	0%	-1%	3%	2%	3%	5%	3%	3%	3%	2%	41%
1984	7%	1%	1%	2%	4%	4%	5%	3%	2%	1%	1%	1%
1985	1%	1%	4%	6%	4%	4%	4%	3%	2%	2%	2%	2%
1986	1%	1%	4%	4%	8%	9%	3%	2%	3%	1%	1%	1%
1987	0%	1%	3%	5%	3%	4%	3%	3%	3%	3%	2%	2%
1988	2%	1%	1%	3%	4%	3%	3%	3%	3%	2%	2%	2%
1989	2%	0%	1%	3%	3%	3%	3%	3%	3%	3%	2%	2%
1990	2%	1%	1%	3%	3%	3%	3%	3%	3%	3%	2%	2%
1991	2%	1%	1%	3%	3%	3%	3%	3%	3%	3%	2%	2%
1992	2%	1%	2%	2%	3%	3%	3%	3%	2%	2%	2%	2%
1993	2%	0%	1%	2%	3%	3%	3%	2%	2%	1%	0%	0%
1994	1%	2%	4%	5%	3%	3%	3%	3%	3%	2%	2%	2%
1995	2%	1%	1%	2%	4%	9%	4%	5%	4%	6%	1%	1%
1996	1%	0%	1%	3%	3%	8%	5%	3%	2%	1%	1%	1%
1997	1%	1%	2%	5%	3%	2%	3%	2%	0%	1%	0%	0%
1998	1%	0%	3%	3%	4%	7%	5%	3%	5%	8%	1%	0%
1999	1%	1%	3%	4%	3%	4%	5%	3%	2%	1%	0%	1%
2000	0%	1%	4%	4%	3%	4%	4%	3%	2%	1%	1%	1%
2001	1%	2%	4%	4%	3%	4%	4%	3%	3%	2%	2%	2%
2002	2%	1%	1%	3%	4%	4%	3%	3%	3%	2%	2%	2%
2003	2%	1%	1%	2%	3%	4%	3%	3%	3%	2%	2%	1%

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Sand Slough Control Structure (Head of Reach 4B1) (Deg. F)
No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					50	55	59	65	69	78	80	74
1981	69	57	48	47	55	58	64	72	80	82	80	77
1982	66	57	48	45	52	55	56	63	68	78	80	74
1983	66	53	49	46	51	54	56	62	65	69	79	55
1984	62	54	50	48	52	60	59	72	78	84	81	78
1985	65	54	47	44	53	58	65	72	79	81	79	73
1986	67	55	47	49	51	55	59	65	71	80	80	73
1987	67	57	48	46	54	59	70	75	78	79	80	76
1988	71	56	49	47	56	61	66	71	76	83	80	76
1989	69	56	48	46	53	60	67	73	77	81	80	75
1990	68	58	47	47	50	60	69	73	77	83	82	77
1991	70	57	45	47	56	57	64	71	77	83	81	78
1992	72	58	48	45	54	61	69	76	78	80	82	77
1993	70	58	48	49	54	61	60	67	72	81	81	77
1994	70	57	48	48	53	61	67	72	78	83	82	77
1995	68	53	46	51	55	55	58	63	68	71	81	78
1996	69	62	53	51	58	58	61	69	77	82	82	76
1997	67	57	51	49	52	60	61	69	74	81	82	78
1998	67	60	49	50	52	57	58	62	67	72	83	78
1999	66	57	47	46	54	58	60	70	78	83	81	78
2000	71	60	50	50	55	59	62	71	79	80	82	76
2001	67	54	50	49	52	60	63	77	79	80	81	78
2002	70	60	48	49	54	58	65	71	78	83	81	78
2003	69	59	52	51	56	60	61	70	78	83	80	78

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Sand Slough Control Structure (Head of Reach 4B1) (Deg. F)
Alternative2 (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					54	57	61	66	71	81	81	75
1981	69	57	50	49	57	60	67	74	82	83	81	78
1982	66	58	51	47	55	58	59	67	71	80	81	75
1983	66	54	49	48	52	56	59	64	67	71	81	77
1984	64	55	50	49	54	62	62	74	80	85	82	78
1985	66	55	49	46	55	60	67	74	81	83	80	75
1986	67	55	49	51	55	60	61	67	72	81	81	74
1987	67	58	49	48	56	61	72	78	80	82	81	77
1988	72	57	50	48	58	63	68	73	79	85	82	78
1989	70	57	49	48	55	61	69	75	79	83	82	77
1990	69	59	48	48	52	62	71	75	79	85	83	78
1991	71	57	46	48	57	59	66	73	79	85	83	80
1992	73	59	48	46	56	63	71	78	80	82	84	78
1993	72	58	48	50	56	63	62	68	73	81	82	77
1994	70	58	50	50	54	63	69	75	80	85	84	79
1995	69	54	47	52	57	60	60	65	71	75	82	79
1996	70	61	53	52	59	62	64	71	79	83	83	77
1997	68	58	52	51	54	61	63	70	74	81	83	79
1998	68	59	50	52	54	61	61	64	71	78	84	79
1999	67	57	48	48	55	60	63	72	80	84	81	79
2000	71	60	52	52	57	61	65	72	81	81	82	76
2001	68	56	52	51	54	63	66	80	81	82	82	79
2002	71	60	49	50	56	61	67	73	80	85	83	80
2003	70	59	52	52	57	62	63	73	81	84	81	79

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Change in Average Simulated SJR Below Sand Slough Control Structure (Head of Reach 4B1) (Deg. F)
Alternative2 (2030) - No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					4	2	2	2	2	3	1	1
1981	0	1	2	2	2	2	2	2	2	1	1	1
1982	0	1	2	2	2	3	3	4	3	2	1	1
1983	0	0	0	2	1	2	3	2	2	2	2	22
1984	2	0	0	1	2	2	3	2	1	1	1	1
1985	0	1	2	2	2	2	2	2	2	1	1	1
1986	1	0	2	2	4	5	2	1	2	1	1	1
1987	0	0	2	2	2	2	2	2	2	2	2	2
1988	1	1	0	1	2	2	2	2	2	2	2	2
1989	1	0	0	1	2	2	2	2	2	2	2	2
1990	1	0	0	1	2	2	2	2	2	2	2	2
1991	1	1	1	1	2	2	2	2	2	2	2	2
1992	1	1	1	1	2	2	2	2	2	2	2	1
1993	1	0	1	1	2	2	2	1	1	1	0	0
1994	0	1	2	2	2	2	2	2	2	2	2	1
1995	1	1	1	1	2	5	3	3	3	4	1	1
1996	0	0	1	1	2	5	3	2	2	1	1	1
1997	1	1	1	3	2	1	2	1	0	1	0	0
1998	0	0	2	2	2	4	3	2	3	6	1	0
1999	1	0	1	2	2	2	3	2	2	0	0	1
2000	0	0	2	2	2	2	2	2	2	1	1	1
2001	0	1	2	2	2	2	2	2	2	2	2	1
2002	1	1	1	1	2	2	2	2	2	2	2	2
2003	1	0	1	1	2	2	2	2	3	1	1	1

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Percent Change in Average Simulated SJR Below Sand Slough Control Structure (Head of Reach 4B1) (Deg. F
From No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					8%	4%	3%	3%	3%	4%	2%	1%
1981	0%	1%	3%	4%	3%	4%	4%	3%	2%	2%	1%	1%
1982	0%	1%	5%	5%	5%	5%	5%	6%	5%	2%	1%	1%
1983	1%	0%	-1%	3%	2%	3%	5%	3%	3%	3%	2%	39%
1984	4%	1%	1%	2%	3%	4%	5%	3%	2%	1%	1%	1%
1985	1%	1%	4%	5%	4%	4%	4%	3%	2%	2%	2%	2%
1986	1%	1%	4%	4%	8%	9%	3%	2%	3%	1%	1%	1%
1987	0%	0%	4%	5%	3%	4%	3%	3%	3%	3%	2%	2%
1988	2%	1%	1%	3%	4%	3%	3%	3%	3%	2%	2%	2%
1989	2%	0%	1%	3%	3%	3%	3%	3%	3%	3%	2%	2%
1990	2%	1%	1%	3%	3%	3%	3%	3%	3%	3%	2%	2%
1991	2%	1%	1%	3%	3%	3%	3%	3%	3%	3%	2%	2%
1992	2%	1%	2%	2%	3%	3%	3%	3%	2%	2%	2%	2%
1993	2%	0%	1%	2%	3%	3%	3%	2%	2%	1%	1%	1%
1994	1%	1%	5%	5%	3%	3%	3%	3%	3%	2%	2%	2%
1995	2%	1%	1%	2%	4%	9%	4%	5%	4%	5%	1%	1%
1996	1%	0%	1%	3%	3%	8%	5%	2%	2%	1%	1%	1%
1997	1%	1%	2%	5%	3%	2%	3%	2%	1%	1%	1%	1%
1998	1%	0%	4%	3%	4%	6%	5%	3%	5%	8%	1%	1%
1999	1%	1%	3%	4%	3%	4%	5%	3%	2%	1%	0%	1%
2000	0%	0%	5%	4%	3%	4%	4%	2%	2%	1%	1%	1%
2001	1%	2%	5%	5%	3%	4%	4%	3%	3%	2%	2%	2%
2002	2%	1%	1%	3%	4%	4%	3%	3%	3%	2%	2%	2%
2003	2%	1%	1%	2%	3%	3%	3%	3%	3%	2%	2%	1%

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Sand Slough Control Structure (Head of Reach 4B1) (Deg. F)
No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					50	55	59	65	69	78	80	74
1981	69	57	48	47	55	58	64	72	80	82	80	77
1982	66	57	48	45	52	55	56	63	68	78	80	74
1983	66	53	49	46	51	54	56	62	65	69	79	55
1984	62	54	50	48	52	60	59	72	78	84	81	78
1985	65	54	47	44	53	58	65	72	79	81	79	73
1986	67	55	47	49	51	55	59	65	71	80	80	73
1987	67	57	48	46	54	59	70	75	78	79	80	76
1988	71	56	49	47	56	61	66	71	76	83	80	76
1989	69	56	48	46	53	60	67	73	77	81	80	75
1990	68	58	47	47	50	60	69	73	77	83	82	77
1991	70	57	45	47	56	57	64	71	77	83	81	78
1992	72	58	48	45	54	61	69	76	78	80	82	77
1993	70	58	48	49	54	61	60	67	72	81	81	77
1994	70	57	48	48	53	61	67	72	78	83	82	77
1995	68	53	46	51	55	55	58	63	68	71	81	78
1996	69	62	53	51	58	58	61	69	77	82	82	76
1997	67	57	51	49	52	60	61	69	74	81	82	78
1998	67	60	49	50	52	57	58	62	67	72	83	78
1999	66	57	47	46	54	58	60	70	78	83	81	78
2000	71	60	50	50	55	59	62	71	79	80	82	76
2001	67	54	50	49	52	60	63	77	79	80	81	78
2002	70	60	48	49	54	58	65	71	78	83	81	78
2003	69	59	52	51	56	60	61	70	78	83	80	78

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Sand Slough Control Structure (Head of Reach 4B1) (Deg. F)
Alternative3 (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					54	57	61	66	71	81	81	75
1981	70	58	49	48	57	60	67	74	82	83	81	78
1982	67	57	49	47	55	58	59	67	72	81	82	75
1983	67	54	49	48	52	56	59	64	67	71	81	57
1984	63	55	50	49	54	62	62	74	80	85	82	79
1985	66	55	48	46	55	60	67	74	81	83	80	75
1986	68	55	48	50	55	60	60	67	72	81	81	74
1987	68	58	48	47	56	61	72	78	80	82	81	77
1988	72	57	50	48	58	63	68	73	79	85	82	78
1989	70	57	49	48	55	61	69	75	79	83	82	77
1990	69	59	48	48	52	62	71	75	79	85	83	78
1991	71	57	46	48	57	59	66	73	79	85	83	80
1992	73	59	48	46	56	63	71	78	80	82	84	78
1993	72	58	48	50	56	63	62	68	73	81	82	78
1994	71	58	49	50	54	63	69	75	80	85	84	79
1995	69	54	47	52	57	60	60	65	71	76	82	79
1996	70	62	53	52	59	62	64	71	79	83	83	77
1997	68	58	52	51	54	61	62	70	74	81	83	79
1998	69	60	49	52	54	61	61	64	71	80	85	80
1999	67	58	48	47	55	60	62	72	80	84	81	79
2000	72	61	51	52	57	61	65	72	81	81	82	77
2001	69	55	51	50	54	62	66	80	81	82	82	79
2002	71	60	49	50	56	60	67	73	80	85	83	80
2003	70	59	52	52	57	62	63	73	81	84	81	79

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Change in Average Simulated SJR Below Sand Slough Control Structure (Head of Reach 4B1) (Deg. F)
Alternative3 (2030) - No Action (2030)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Percent Change in Average Simulated SJR Below Sand Slough Control Structure (Head of Reach 4B1) (Deg. F
From No Action (2030)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Sand Slough Control Structure (Head of Reach 4B1) (Deg. F)
No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					50	55	59	65	69	78	80	74
1981	69	57	48	47	55	58	64	72	80	82	80	77
1982	66	57	48	45	52	55	56	63	68	78	80	74
1983	66	53	49	46	51	54	56	62	65	69	79	55
1984	62	54	50	48	52	60	59	72	78	84	81	78
1985	65	54	47	44	53	58	65	72	79	81	79	73
1986	67	55	47	49	51	55	59	65	71	80	80	73
1987	67	57	48	46	54	59	70	75	78	79	80	76
1988	71	56	49	47	56	61	66	71	76	83	80	76
1989	69	56	48	46	53	60	67	73	77	81	80	75
1990	68	58	47	47	50	60	69	73	77	83	82	77
1991	70	57	45	47	56	57	64	71	77	83	81	78
1992	72	58	48	45	54	61	69	76	78	80	82	77
1993	70	58	48	49	54	61	60	67	72	81	81	77
1994	70	57	48	48	53	61	67	72	78	83	82	77
1995	68	53	46	51	55	55	58	63	68	71	81	78
1996	69	62	53	51	58	58	61	69	77	82	82	76
1997	67	57	51	49	52	60	61	69	74	81	82	78
1998	67	60	49	50	52	57	58	62	67	72	83	78
1999	66	57	47	46	54	58	60	70	78	83	81	78
2000	71	60	50	50	55	59	62	71	79	80	82	76
2001	67	54	50	49	52	60	63	77	79	80	81	78
2002	70	60	48	49	54	58	65	71	78	83	81	78
2003	69	59	52	51	56	60	61	70	78	83	80	78

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Sand Slough Control Structure (Head of Reach 4B1) (Deg. F)
Alternative4 (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					54	57	61	66	71	81	81	75
1981	69	56	48	48	56	60	66	74	82	83	81	78
1982	66	57	48	47	55	58	60	67	72	81	82	75
1983	66	53	49	48	52	56	59	64	67	71	80	61
1984	64	55	50	49	54	62	62	74	79	84	82	78
1985	65	54	48	46	55	60	67	74	81	83	80	75
1986	67	54	47	50	55	60	61	67	73	81	80	74
1987	67	57	47	47	56	61	72	78	81	82	81	77
1988	72	57	50	48	58	64	68	73	79	85	82	78
1989	70	56	48	47	55	62	69	75	79	83	82	77
1990	69	58	47	48	52	62	71	75	79	85	83	78
1991	71	57	46	48	57	59	66	74	79	85	83	80
1992	73	59	48	46	56	63	71	78	80	82	84	78
1993	72	58	48	50	56	63	62	68	73	81	81	77
1994	70	57	49	50	54	63	69	75	80	85	84	79
1995	69	54	46	52	57	60	60	66	72	75	82	79
1996	70	61	52	51	59	62	64	70	78	83	83	77
1997	68	57	51	51	53	61	62	70	74	81	83	79
1998	68	59	49	51	54	61	61	64	71	77	84	79
1999	67	57	47	48	55	60	62	72	79	84	81	79
2000	71	59	50	51	56	61	65	72	80	81	82	76
2001	68	54	50	50	54	63	66	80	81	82	82	79
2002	71	60	48	50	56	61	67	73	80	85	83	80
2003	70	59	52	52	57	62	63	73	81	84	81	79

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Change in Average Simulated SJR Below Sand Slough Control Structure (Head of Reach 4B1) (Deg. F)
Alternative4 (2030) - No Action (2030)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Percent Change in Average Simulated SJR Below Sand Slough Control Structure (Head of Reach 4B1) (Deg. F
From No Action (2030)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Mariposa Bypass Return (Head of Reach 4B2) (Deg. F)
Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					53	60	66	72	76	81	82	77
1981	71	58	48	47	57	61	69	76	84	85	83	79
1982	68	58	48	45	54	59	64	73	76	82	83	76
1983	68	54	48	45	54	59	63	70	76	78	82	72
1984	66	56	49	49	54	64	67	78	82	86	84	80
1985	67	55	46	43	55	62	70	76	82	85	82	76
1986	68	55	46	49	54	61	67	72	78	84	82	75
1987	69	58	47	45	56	62	73	78	81	82	82	78
1988	72	57	49	47	58	66	69	74	79	86	83	79
1989	71	57	48	46	55	63	71	76	81	84	83	77
1990	70	59	47	47	52	63	72	76	80	86	84	79
1991	72	58	45	47	57	61	68	75	80	86	83	81
1992	73	59	48	44	56	64	72	80	81	83	84	79
1993	72	59	47	49	56	65	68	74	78	84	83	79
1994	72	58	48	48	54	65	70	76	81	86	84	79
1995	70	54	46	52	57	60	65	71	75	81	84	80
1996	72	63	53	51	59	62	68	74	80	85	85	78
1997	69	58	51	50	55	64	68	76	79	84	85	81
1998	69	60	48	50	53	61	65	69	76	82	86	81
1999	68	58	47	45	56	61	65	74	82	86	83	81
2000	73	61	50	51	57	62	70	75	82	83	84	78
2001	69	55	50	48	54	64	68	81	82	83	83	80
2002	72	60	48	49	56	62	70	75	81	86	84	81
2003	71	60	52	52	58	64	66	75	82	85	83	80

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Mariposa Bypass Return (Head of Reach 4B2) (Deg. F)
Alternative1 (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					55	60	67	72	76	81	82	76
1981	70	58	48	47	57	62	70	76	83	85	83	79
1982	67	58	49	46	55	60	65	74	77	82	83	76
1983	67	54	48	46	54	59	64	70	76	78	82	79
1984	69	56	49	49	54	65	67	78	82	86	83	80
1985	66	55	47	44	55	62	71	76	82	85	82	75
1986	68	55	47	49	56	63	67	73	79	83	82	75
1987	68	58	47	46	56	63	74	78	81	82	82	78
1988	72	57	49	47	58	66	70	74	79	86	83	79
1989	71	57	48	46	55	63	71	76	81	84	83	77
1990	70	59	47	47	52	63	72	76	80	86	84	79
1991	72	58	45	47	57	61	68	75	80	86	83	81
1992	73	59	48	44	56	65	72	80	81	83	84	79
1993	72	59	47	49	56	66	68	74	78	84	83	79
1994	71	58	49	48	54	65	70	76	81	86	84	79
1995	70	54	46	52	58	62	66	72	76	81	84	80
1996	71	62	53	51	59	64	69	74	80	85	84	78
1997	68	58	51	51	55	64	68	76	79	84	84	80
1998	69	60	49	51	54	63	66	69	76	83	86	80
1999	68	57	47	46	56	62	66	74	81	85	82	80
2000	72	60	50	51	57	62	70	75	82	83	83	77
2001	68	55	51	49	54	64	69	81	82	83	83	79
2002	72	60	48	49	56	63	70	75	81	86	84	81
2003	71	59	52	52	58	64	66	75	82	85	82	80

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Change in Average Simulated SJR Below Mariposa Bypass Return (Head of Reach 4B2) (Deg. F) Alternative1 (2005) - Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					2	1	1	0	0	1	0	-1
1981	-1	0	1	0	0	0	0	0	0	0	0	0
1982	0	0	1	1	1	1	1	1	1	0	-1	-1
1983	0	0	0	1	0	0	1	0	0	0	0	7
1984	3	0	0	0	0	0	0	0	0	0	0	-1
1985	0	0	1	1	0	1	0	0	0	0	0	0
1986	0	0	1	0	1	2	0	1	0	0	0	0
1987	-1	0	1	1	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	-1	-1
1994	-1	0	1	1	0	0	0	0	0	0	0	0
1995	0	0	0	0	1	2	2	1	1	0	0	-1
1996	-1	-1	0	0	0	2	1	0	0	0	0	-1
1997	0	0	0	1	1	0	0	0	0	0	-1	-1
1998	0	-1	1	1	1	2	1	1	1	1	0	-1
1999	0	0	1	1	0	1	1	0	0	0	-1	-1
2000	-1	0	1	0	0	1	0	0	0	0	-1	-1
2001	0	0	1	1	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 SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Percent Change in Average Simulated SJR Below Mariposa Bypass Return (Head of Reach 4B2) (Deg. F) From Existing Conditions (2005)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Mariposa Bypass Return (Head of Reach 4B2) (Deg. F)
Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					53	60	66	72	76	81	82	77
1981	71	58	48	47	57	61	69	76	84	85	83	79
1982	68	58	48	45	54	59	64	73	76	82	83	76
1983	68	54	48	45	54	59	63	70	76	78	82	72
1984	66	56	49	49	54	64	67	78	82	86	84	80
1985	67	55	46	43	55	62	70	76	82	85	82	76
1986	68	55	46	49	54	61	67	72	78	84	82	75
1987	69	58	47	45	56	62	73	78	81	82	82	78
1988	72	57	49	47	58	66	69	74	79	86	83	79
1989	71	57	48	46	55	63	71	76	81	84	83	77
1990	70	59	47	47	52	63	72	76	80	86	84	79
1991	72	58	45	47	57	61	68	75	80	86	83	81
1992	73	59	48	44	56	64	72	80	81	83	84	79
1993	72	59	47	49	56	65	68	74	78	84	83	79
1994	72	58	48	48	54	65	70	76	81	86	84	79
1995	70	54	46	52	57	60	65	71	75	81	84	80
1996	72	63	53	51	59	62	68	74	80	85	85	78
1997	69	58	51	50	55	64	68	76	79	84	85	81
1998	69	60	48	50	53	61	65	69	76	82	86	81
1999	68	58	47	45	56	61	65	74	82	86	83	81
2000	73	61	50	51	57	62	70	75	82	83	84	78
2001	69	55	50	48	54	64	68	81	82	83	83	80
2002	72	60	48	49	56	62	70	75	81	86	84	81
2003	71	60	52	52	58	64	66	75	82	85	83	80

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Mariposa Bypass Return (Head of Reach 4B2) (Deg. F)
Alternative2 (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					55	60	67	72	76	82	82	76
1981	70	57	49	47	57	61	70	76	83	85	83	79
1982	67	58	49	46	55	60	65	74	77	83	83	76
1983	68	54	48	46	54	59	64	70	76	78	82	76
1984	67	56	49	49	54	65	67	78	81	86	83	80
1985	66	55	48	44	55	62	71	76	82	84	82	75
1986	68	55	47	50	56	63	67	73	79	83	82	75
1987	68	58	48	46	56	63	74	78	81	82	82	78
1988	72	56	49	47	58	66	70	74	79	86	83	79
1989	71	57	48	46	55	63	71	76	81	84	83	77
1990	70	59	47	47	52	63	72	76	80	86	84	79
1991	72	58	45	47	57	61	68	75	80	86	83	81
1992	73	59	48	44	56	65	72	80	81	83	84	79
1993	72	59	47	49	56	65	68	74	78	83	83	79
1994	71	58	49	48	54	65	70	76	81	86	84	79
1995	70	54	46	52	58	62	66	72	76	81	84	80
1996	71	62	53	51	59	64	69	74	80	85	84	78
1997	68	58	52	51	55	64	68	76	79	84	84	80
1998	69	60	49	51	54	63	66	69	76	83	86	80
1999	68	57	47	46	56	62	66	74	81	85	82	80
2000	72	60	50	51	57	62	70	75	82	83	83	77
2001	68	55	51	50	54	64	69	81	82	83	83	79
2002	72	60	48	49	56	63	70	75	81	86	84	81
2003	71	59	52	52	58	64	66	75	82	85	82	80

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Change in Average Simulated SJR Below Mariposa Bypass Return (Head of Reach 4B2) (Deg. F)
Alternative2 (2005) - Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					2	1	1	0	0	1	0	0
1981	-1	-1	1	1	0	0	0	0	0	0	0	0
1982	-1	0	1	1	1	1	1	1	1	0	0	0
1983	0	0	0	1	0	0	1	0	0	0	0	4
1984	1	0	0	0	0	0	0	0	0	0	0	-1
1985	-1	0	1	1	0	1	0	0	0	0	0	0
1986	-1	0	2	1	1	2	0	1	0	0	0	0
1987	-1	-1	1	1	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	-1	-1
1994	-1	0	1	1	0	0	0	0	0	0	0	0
1995	0	0	0	0	1	2	2	1	1	0	0	0
1996	-1	-1	0	0	0	2	1	0	0	-1	0	-1
1997	0	0	0	1	1	0	0	0	0	-1	-1	-1
1998	-1	-1	1	1	1	2	1	1	1	1	0	0
1999	0	0	1	1	0	1	0	0	0	-1	-1	-1
2000	-1	-1	1	0	0	0	0	0	0	-1	-1	-1
2001	-1	0	1	1	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 SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Percent Change in Average Simulated SJR Below Mariposa Bypass Return (Head of Reach 4B2) (Deg. F)
From Existing Conditions (2005)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Mariposa Bypass Return (Head of Reach 4B2) (Deg. F)
Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					53	60	66	72	76	81	82	77
1981	71	58	48	47	57	61	69	76	84	85	83	79
1982	68	58	48	45	54	59	64	73	76	82	83	76
1983	68	54	48	45	54	59	63	70	76	78	82	72
1984	66	56	49	49	54	64	67	78	82	86	84	80
1985	67	55	46	43	55	62	70	76	82	85	82	76
1986	68	55	46	49	54	61	67	72	78	84	82	75
1987	69	58	47	45	56	62	73	78	81	82	82	78
1988	72	57	49	47	58	66	69	74	79	86	83	79
1989	71	57	48	46	55	63	71	76	81	84	83	77
1990	70	59	47	47	52	63	72	76	80	86	84	79
1991	72	58	45	47	57	61	68	75	80	86	83	81
1992	73	59	48	44	56	64	72	80	81	83	84	79
1993	72	59	47	49	56	65	68	74	78	84	83	79
1994	72	58	48	48	54	65	70	76	81	86	84	79
1995	70	54	46	52	57	60	65	71	75	81	84	80
1996	72	63	53	51	59	62	68	74	80	85	85	78
1997	69	58	51	50	55	64	68	76	79	84	85	81
1998	69	60	48	50	53	61	65	69	76	82	86	81
1999	68	58	47	45	56	61	65	74	82	86	83	81
2000	73	61	50	51	57	62	70	75	82	83	84	78
2001	69	55	50	48	54	64	68	81	82	83	83	80
2002	72	60	48	49	56	62	70	75	81	86	84	81
2003	71	60	52	52	58	64	66	75	82	85	83	80

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Mariposa Bypass Return (Head of Reach 4B2) (Deg. F)
Alternative3 (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					55	60	66	71	75	81	82	77
1981	71	58	48	48	57	61	69	76	83	85	83	79
1982	68	58	48	46	55	60	64	73	77	83	83	76
1983	68	54	48	46	54	59	64	70	76	78	82	72
1984	66	56	49	49	54	64	66	77	81	86	83	80
1985	67	55	47	45	55	62	70	75	82	85	82	76
1986	68	55	47	50	56	63	66	73	78	83	82	75
1987	69	58	47	47	56	63	74	78	81	82	82	78
1988	72	57	49	48	58	66	69	74	79	86	83	79
1989	71	57	48	47	55	63	72	76	81	84	83	77
1990	70	59	47	48	52	63	72	76	80	86	84	79
1991	72	58	45	48	58	61	68	75	80	86	83	81
1992	73	59	48	45	56	65	72	80	81	83	84	79
1993	72	59	48	49	56	65	67	73	78	83	83	79
1994	72	59	49	49	54	65	70	76	81	86	84	79
1995	70	54	46	52	58	62	65	71	76	82	84	80
1996	71	63	53	51	59	64	68	73	80	85	84	78
1997	69	58	51	51	55	64	67	76	79	83	84	80
1998	69	60	49	51	54	63	66	69	76	84	86	81
1999	68	58	47	47	56	62	66	74	81	85	82	80
2000	73	61	50	51	57	62	69	74	82	83	84	78
2001	69	55	51	50	54	64	68	81	82	83	83	79
2002	72	60	48	50	56	62	69	75	81	86	84	81
2003	71	59	52	52	58	64	66	74	82	85	82	80

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Change in Average Simulated SJR Below Mariposa Bypass Return (Head of Reach 4B2) (Deg. F) Alternative3 (2005) - Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					2	1	0	-1	0	1	0	0
1981	0	0	1	1	0	0	0	0	0	0	0	0
1982	0	0	1	1	1	1	1	1	1	0	0	0
1983	0	0	0	1	0	0	1	0	0	0	0	0
1984	0	0	0	0	0	0	0	-1	0	0	0	0
1985	0	0	1	2	1	0	0	0	0	0	0	0
1986	0	0	1	1	1	2	0	0	0	-1	0	0
1987	0	0	1	1	0	0	0	0	0	0	0	0
1988	0	0	1	1	0	0	0	0	0	0	0	0
1989	0	0	0	1	0	0	0	0	0	0	0	0
1990	0	0	1	1	0	0	0	0	0	0	0	0
1991	0	0	1	0	0	0	0	0	0	0	0	0
1992	0	0	0	1	0	0	0	0	0	0	0	0
1993	0	0	1	0	0	0	-1	-1	0	0	0	0
1994	0	0	1	1	0	0	0	0	0	0	0	0
1995	0	0	1	0	1	2	1	0	1	1	0	0
1996	0	0	0	1	0	2	0	-1	0	-1	0	0
1997	0	0	0	1	1	0	-1	0	-1	-1	0	0
1998	0	0	1	1	1	2	1	0	1	2	0	0
1999	0	0	1	2	0	0	0	0	0	0	-1	0
2000	0	0	1	1	0	0	0	-1	0	0	0	0
2001	0	0	1	1	0	0	0	0	0	0	0	0
2002	0	0	0	1	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 SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Percent Change in Average Simulated SJR Below Mariposa Bypass Return (Head of Reach 4B2) (Deg. F) From Existing Conditions (2005)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Mariposa Bypass Return (Head of Reach 4B2) (Deg. F)
Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					53	60	66	72	76	81	82	77
1981	71	58	48	47	57	61	69	76	84	85	83	79
1982	68	58	48	45	54	59	64	73	76	82	83	76
1983	68	54	48	45	54	59	63	70	76	78	82	72
1984	66	56	49	49	54	64	67	78	82	86	84	80
1985	67	55	46	43	55	62	70	76	82	85	82	76
1986	68	55	46	49	54	61	67	72	78	84	82	75
1987	69	58	47	45	56	62	73	78	81	82	82	78
1988	72	57	49	47	58	66	69	74	79	86	83	79
1989	71	57	48	46	55	63	71	76	81	84	83	77
1990	70	59	47	47	52	63	72	76	80	86	84	79
1991	72	58	45	47	57	61	68	75	80	86	83	81
1992	73	59	48	44	56	64	72	80	81	83	84	79
1993	72	59	47	49	56	65	68	74	78	84	83	79
1994	72	58	48	48	54	65	70	76	81	86	84	79
1995	70	54	46	52	57	60	65	71	75	81	84	80
1996	72	63	53	51	59	62	68	74	80	85	85	78
1997	69	58	51	50	55	64	68	76	79	84	85	81
1998	69	60	48	50	53	61	65	69	76	82	86	81
1999	68	58	47	45	56	61	65	74	82	86	83	81
2000	73	61	50	51	57	62	70	75	82	83	84	78
2001	69	55	50	48	54	64	68	81	82	83	83	80
2002	72	60	48	49	56	62	70	75	81	86	84	81
2003	71	60	52	52	58	64	66	75	82	85	83	80

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Mariposa Bypass Return (Head of Reach 4B2) (Deg. F)
Alternative4 (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					55	60	67	72	76	82	82	76
1981	70	57	48	47	57	61	70	76	83	84	82	79
1982	67	57	48	45	55	60	65	74	77	83	83	76
1983	67	53	48	46	54	59	64	70	76	78	82	74
1984	67	56	49	49	54	65	67	78	81	86	83	80
1985	66	54	47	44	55	62	71	76	82	84	82	75
1986	68	54	46	49	56	63	67	73	79	83	82	75
1987	68	57	47	46	56	63	74	78	81	82	82	78
1988	72	56	49	47	58	66	70	74	79	86	83	79
1989	71	57	47	46	55	63	71	76	81	84	83	77
1990	70	59	47	47	52	63	72	76	80	86	84	79
1991	72	58	45	47	57	61	68	75	80	86	83	81
1992	73	59	48	44	56	65	72	80	81	83	84	79
1993	72	59	47	49	56	66	68	74	78	83	83	79
1994	71	58	48	48	54	65	70	76	81	86	84	79
1995	70	54	46	52	58	62	66	72	77	81	84	80
1996	71	62	53	51	59	64	69	74	80	85	84	78
1997	68	57	51	51	55	64	68	76	79	84	84	80
1998	69	60	48	50	54	63	66	69	76	83	86	80
1999	68	57	47	46	56	62	66	74	81	85	82	80
2000	72	60	50	51	57	62	70	75	82	82	83	77
2001	69	54	50	49	54	64	69	81	82	83	83	79
2002	72	60	48	49	56	63	70	75	81	86	84	81
2003	71	59	52	52	58	64	66	75	82	85	82	80

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Change in Average Simulated SJR Below Mariposa Bypass Return (Head of Reach 4B2) (Deg. F) Alternative4 (2005) - Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					2	1	1	0	0	2	0	0
1981	-1	-1	0	0	0	0	0	0	0	-1	-1	0
1982	0	-1	0	1	0	1	1	1	1	0	0	0
1983	0	0	0	1	0	0	1	0	0	0	0	2
1984	1	0	0	0	0	0	0	0	-1	-1	-1	-1
1985	0	-1	0	1	0	0	0	0	0	-1	-1	0
1986	0	-1	0	0	1	2	0	1	1	0	-1	0
1987	-1	-1	0	1	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	-1	-1
1994	-1	-1	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	1	2	2	1	1	1	0	0
1996	-1	-1	0	0	0	2	1	0	0	-1	-1	0
1997	0	0	0	1	0	0	0	0	0	-1	-1	-1
1998	0	-1	0	0	1	2	1	1	1	1	0	0
1999	0	0	0	1	0	0	0	0	0	-1	-1	-1
2000	-1	-1	0	0	0	0	0	0	0	-1	-1	-1
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 SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Percent Change in Average Simulated SJR Below Mariposa Bypass Return (Head of Reach 4B2) (Deg. F) From Existing Conditions (2005)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Mariposa Bypass Return (Head of Reach 4B2) (Deg. F)
Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					53	60	66	72	76	81	82	77
1981	71	58	48	47	57	61	69	76	84	85	83	79
1982	68	58	48	45	54	59	64	73	76	82	83	76
1983	68	54	48	45	54	59	63	70	76	78	82	72
1984	66	56	49	49	54	64	67	78	82	86	84	80
1985	67	55	46	43	55	62	70	76	82	85	82	76
1986	68	55	46	49	54	61	67	72	78	84	82	75
1987	69	58	47	45	56	62	73	78	81	82	82	78
1988	72	57	49	47	58	66	69	74	79	86	83	79
1989	71	57	48	46	55	63	71	76	81	84	83	77
1990	70	59	47	47	52	63	72	76	80	86	84	79
1991	72	58	45	47	57	61	68	75	80	86	83	81
1992	73	59	48	44	56	64	72	80	81	83	84	79
1993	72	59	47	49	56	65	68	74	78	84	83	79
1994	72	58	48	48	54	65	70	76	81	86	84	79
1995	70	54	46	52	57	60	65	71	75	81	84	80
1996	72	63	53	51	59	62	68	74	80	85	85	78
1997	69	58	51	50	55	64	68	76	79	84	85	81
1998	69	60	48	50	53	61	65	69	76	82	86	81
1999	68	58	47	45	56	61	65	74	82	86	83	81
2000	73	61	50	51	57	62	70	75	82	83	84	78
2001	69	55	50	48	54	64	68	81	82	83	83	80
2002	72	60	48	49	56	62	70	75	81	86	84	81
2003	71	60	52	52	58	64	66	75	82	85	83	80

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Mariposa Bypass Return (Head of Reach 4B2) (Deg. F)
Alternative5 (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					55	60	66	71	75	82	82	76
1981	71	58	48	48	57	61	69	75	83	84	82	79
1982	68	58	49	46	54	60	64	73	77	83	83	76
1983	68	54	48	46	54	59	64	70	76	78	81	72
1984	66	56	49	49	54	65	66	77	81	86	83	80
1985	67	55	47	45	55	62	70	75	82	84	81	75
1986	68	55	47	50	55	63	66	73	78	83	82	75
1987	69	58	48	47	56	63	73	78	81	82	82	78
1988	72	57	50	48	58	66	69	74	79	86	83	79
1989	71	57	49	47	55	63	72	76	81	84	83	77
1990	70	59	48	48	52	63	72	76	80	86	84	79
1991	72	58	46	47	57	61	68	75	80	86	83	81
1992	73	59	48	45	56	64	72	80	81	83	84	79
1993	72	59	48	49	56	65	67	74	78	83	83	79
1994	72	59	49	49	54	65	70	75	81	85	84	79
1995	70	54	47	52	57	61	65	71	76	82	83	80
1996	71	63	53	51	59	64	68	73	80	85	84	78
1997	69	58	52	51	55	64	67	76	79	83	84	80
1998	69	60	49	51	54	63	66	69	76	84	86	81
1999	68	58	47	47	56	62	66	74	81	85	82	80
2000	73	61	50	51	57	62	69	74	82	82	83	78
2001	69	55	51	50	54	64	68	81	81	83	82	79
2002	72	61	49	50	56	62	69	75	81	86	83	80
2003	71	60	52	52	58	64	66	74	82	85	82	80

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Change in Average Simulated SJR Below Mariposa Bypass Return (Head of Reach 4B2) (Deg. F) Alternative5 (2005) - Existing Conditions (2005)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Percent Change in Average Simulated SJR Below Mariposa Bypass Return (Head of Reach 4B2) (Deg. F) From Existing Conditions (2005)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Mariposa Bypass Return (Head of Reach 4B2) (Deg. F)
No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					51	57	62	68	72	77	79	74
1981	68	56	47	46	54	58	66	72	80	81	80	77
1982	65	56	47	44	52	57	60	69	72	79	80	73
1983	66	52	47	44	52	56	60	67	72	74	78	69
1984	64	54	48	47	52	61	62	73	78	83	80	77
1985	65	53	46	43	52	59	67	72	78	81	79	73
1986	66	53	46	48	52	58	63	69	75	80	79	72
1987	66	57	46	45	53	59	70	74	77	78	79	75
1988	70	55	48	46	55	63	66	70	75	82	80	76
1989	68	55	47	45	52	60	68	72	76	80	79	74
1990	67	58	46	46	49	60	69	72	75	82	81	76
1991	69	56	44	46	55	58	64	71	76	82	80	78
1992	71	57	47	44	54	62	69	76	78	79	82	76
1993	70	57	47	48	54	62	64	70	75	80	80	77
1994	70	57	47	47	52	62	67	72	77	82	81	77
1995	68	52	45	50	55	58	62	67	72	77	80	78
1996	69	61	52	50	57	60	64	70	77	82	82	75
1997	66	56	50	49	53	61	64	72	76	81	81	78
1998	67	59	47	50	52	59	62	66	72	79	82	78
1999	66	56	46	45	53	59	62	70	78	82	80	78
2000	71	59	48	49	55	59	66	71	79	79	81	75
2001	67	53	49	48	51	61	65	77	78	80	80	77
2002	69	59	47	48	53	59	66	71	77	82	80	78
2003	68	58	51	51	55	61	63	71	78	82	79	77

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Mariposa Bypass Return (Head of Reach 4B2) (Deg. F)
Alternative1 (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					55	60	66	71	75	81	82	76
1981	70	58	49	48	57	62	70	76	83	85	83	79
1982	67	58	49	46	55	60	64	73	77	82	83	76
1983	67	54	48	46	54	59	64	70	76	78	82	79
1984	69	56	49	49	54	65	66	77	81	86	83	80
1985	66	55	48	45	55	62	70	76	82	85	82	75
1986	68	55	47	50	56	63	66	73	78	83	82	75
1987	68	58	48	47	56	63	74	78	81	82	82	78
1988	72	57	49	48	58	66	69	74	79	86	83	79
1989	71	57	48	47	55	63	72	76	81	84	83	77
1990	70	59	47	48	52	63	72	76	80	86	84	79
1991	72	58	45	48	58	61	68	75	80	86	83	81
1992	73	59	48	45	56	65	72	80	81	83	84	79
1993	72	59	48	49	56	65	67	74	78	83	83	79
1994	71	58	49	49	54	65	70	76	81	86	84	79
1995	70	54	46	52	58	62	65	71	76	82	84	80
1996	71	62	53	52	59	64	68	73	80	85	84	78
1997	68	58	52	51	55	64	67	76	79	83	84	80
1998	69	60	49	52	54	63	66	69	76	84	86	80
1999	68	57	48	48	56	62	66	74	81	85	82	80
2000	72	61	51	52	57	62	69	75	82	83	83	77
2001	69	55	51	50	54	64	68	81	82	83	83	80
2002	72	60	48	50	56	62	69	75	81	86	84	81
2003	71	59	52	52	58	64	66	74	82	85	82	80

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Change in Average Simulated SJR Below Mariposa Bypass Return (Head of Reach 4B2) (Deg. F) Alternative1 (2030) - No Action (2030)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Percent Change in Average Simulated SJR Below Mariposa Bypass Return (Head of Reach 4B2) (Deg. F) From No Action (2030)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Mariposa Bypass Return (Head of Reach 4B2) (Deg. F)
No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					51	57	62	68	72	77	79	74
1981	68	56	47	46	54	58	66	72	80	81	80	77
1982	65	56	47	44	52	57	60	69	72	79	80	73
1983	66	52	47	44	52	56	60	67	72	74	78	69
1984	64	54	48	47	52	61	62	73	78	83	80	77
1985	65	53	46	43	52	59	67	72	78	81	79	73
1986	66	53	46	48	52	58	63	69	75	80	79	72
1987	66	57	46	45	53	59	70	74	77	78	79	75
1988	70	55	48	46	55	63	66	70	75	82	80	76
1989	68	55	47	45	52	60	68	72	76	80	79	74
1990	67	58	46	46	49	60	69	72	75	82	81	76
1991	69	56	44	46	55	58	64	71	76	82	80	78
1992	71	57	47	44	54	62	69	76	78	79	82	76
1993	70	57	47	48	54	62	64	70	75	80	80	77
1994	70	57	47	47	52	62	67	72	77	82	81	77
1995	68	52	45	50	55	58	62	67	72	77	80	78
1996	69	61	52	50	57	60	64	70	77	82	82	75
1997	66	56	50	49	53	61	64	72	76	81	81	78
1998	67	59	47	50	52	59	62	66	72	79	82	78
1999	66	56	46	45	53	59	62	70	78	82	80	78
2000	71	59	48	49	55	59	66	71	79	79	81	75
2001	67	53	49	48	51	61	65	77	78	80	80	77
2002	69	59	47	48	53	59	66	71	77	82	80	78
2003	68	58	51	51	55	61	63	71	78	82	79	77

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Mariposa Bypass Return (Head of Reach 4B2) (Deg. F)
Alternative2 (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					55	60	66	71	75	81	82	76
1981	70	58	49	48	57	61	70	76	83	85	83	79
1982	67	58	49	46	55	60	64	73	77	82	83	76
1983	67	54	48	46	54	59	64	70	76	78	82	78
1984	67	56	49	49	54	65	66	77	81	86	83	80
1985	66	55	48	45	55	62	70	75	82	85	82	75
1986	68	55	48	50	56	63	66	73	78	83	82	75
1987	68	58	48	47	56	63	74	78	81	82	82	78
1988	72	57	49	48	58	66	69	74	79	86	83	79
1989	71	57	48	47	55	63	72	76	81	84	83	77
1990	70	59	47	48	52	63	72	76	80	86	84	79
1991	72	58	45	48	58	61	68	75	80	86	83	81
1992	73	59	48	45	56	65	72	80	81	83	84	79
1993	72	59	48	49	56	65	67	73	78	83	83	79
1994	71	58	49	49	54	65	70	76	81	86	84	79
1995	70	54	46	52	58	62	65	71	76	82	84	80
1996	71	62	53	52	59	64	68	73	80	85	84	78
1997	68	58	52	51	55	64	67	76	79	83	84	80
1998	69	60	49	52	54	63	66	69	76	84	85	80
1999	68	57	48	47	56	62	66	74	81	85	82	80
2000	72	60	51	52	57	62	69	75	82	83	83	78
2001	68	55	51	50	54	64	68	81	82	83	83	79
2002	72	60	48	50	56	62	69	75	81	86	84	81
2003	71	59	52	52	58	64	66	74	82	85	82	80

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Change in Average Simulated SJR Below Mariposa Bypass Return (Head of Reach 4B2) (Deg. F) Alternative2 (2030) - No Action (2030)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Percent Change in Average Simulated SJR Below Mariposa Bypass Return (Head of Reach 4B2) (Deg. F) From No Action (2030)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Mariposa Bypass Return (Head of Reach 4B2) (Deg. F)
No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					51	57	62	68	72	77	79	74
1981	68	56	47	46	54	58	66	72	80	81	80	77
1982	65	56	47	44	52	57	60	69	72	79	80	73
1983	66	52	47	44	52	56	60	67	72	74	78	69
1984	64	54	48	47	52	61	62	73	78	83	80	77
1985	65	53	46	43	52	59	67	72	78	81	79	73
1986	66	53	46	48	52	58	63	69	75	80	79	72
1987	66	57	46	45	53	59	70	74	77	78	79	75
1988	70	55	48	46	55	63	66	70	75	82	80	76
1989	68	55	47	45	52	60	68	72	76	80	79	74
1990	67	58	46	46	49	60	69	72	75	82	81	76
1991	69	56	44	46	55	58	64	71	76	82	80	78
1992	71	57	47	44	54	62	69	76	78	79	82	76
1993	70	57	47	48	54	62	64	70	75	80	80	77
1994	70	57	47	47	52	62	67	72	77	82	81	77
1995	68	52	45	50	55	58	62	67	72	77	80	78
1996	69	61	52	50	57	60	64	70	77	82	82	75
1997	66	56	50	49	53	61	64	72	76	81	81	78
1998	67	59	47	50	52	59	62	66	72	79	82	78
1999	66	56	46	45	53	59	62	70	78	82	80	78
2000	71	59	48	49	55	59	66	71	79	79	81	75
2001	67	53	49	48	51	61	65	77	78	80	80	77
2002	69	59	47	48	53	59	66	71	77	82	80	78
2003	68	58	51	51	55	61	63	71	78	82	79	77

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Mariposa Bypass Return (Head of Reach 4B2) (Deg. F)
Alternative3 (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					55	60	66	71	75	81	82	77
1981	71	58	48	48	57	61	69	76	83	85	83	79
1982	68	58	48	46	55	60	64	73	77	83	83	76
1983	68	54	48	46	54	59	64	70	76	78	82	72
1984	66	56	49	49	54	64	66	77	81	86	83	80
1985	67	55	47	45	55	62	70	75	82	85	82	76
1986	68	55	47	50	56	63	66	73	78	83	82	75
1987	69	58	47	47	56	63	74	78	81	82	82	78
1988	72	57	49	48	58	66	69	74	79	86	83	79
1989	71	57	48	47	55	63	72	76	81	84	83	77
1990	70	59	47	48	52	63	72	76	80	86	84	79
1991	72	58	45	48	58	61	68	75	80	86	83	81
1992	73	59	48	45	56	65	72	80	81	83	84	79
1993	72	59	48	49	56	65	67	73	78	83	83	79
1994	72	59	49	49	54	65	70	76	81	86	84	79
1995	70	54	46	52	58	62	65	71	76	82	84	80
1996	71	63	53	51	59	64	68	73	80	85	84	78
1997	69	58	51	51	55	64	67	76	79	83	84	80
1998	69	60	49	51	54	63	66	69	76	84	86	81
1999	68	58	47	47	56	62	66	74	81	85	82	80
2000	73	61	50	51	57	62	69	74	82	83	84	78
2001	69	55	51	50	54	64	68	81	82	83	83	79
2002	72	60	48	50	56	62	69	75	81	86	84	81
2003	71	59	52	52	58	64	66	74	82	85	82	80

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Change in Average Simulated SJR Below Mariposa Bypass Return (Head of Reach 4B2) (Deg. F) Alternative3 (2030) - No Action (2030)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Percent Change in Average Simulated SJR Below Mariposa Bypass Return (Head of Reach 4B2) (Deg. F) From No Action (2030)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Mariposa Bypass Return (Head of Reach 4B2) (Deg. F)
No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					51	57	62	68	72	77	79	74
1981	68	56	47	46	54	58	66	72	80	81	80	77
1982	65	56	47	44	52	57	60	69	72	79	80	73
1983	66	52	47	44	52	56	60	67	72	74	78	69
1984	64	54	48	47	52	61	62	73	78	83	80	77
1985	65	53	46	43	52	59	67	72	78	81	79	73
1986	66	53	46	48	52	58	63	69	75	80	79	72
1987	66	57	46	45	53	59	70	74	77	78	79	75
1988	70	55	48	46	55	63	66	70	75	82	80	76
1989	68	55	47	45	52	60	68	72	76	80	79	74
1990	67	58	46	46	49	60	69	72	75	82	81	76
1991	69	56	44	46	55	58	64	71	76	82	80	78
1992	71	57	47	44	54	62	69	76	78	79	82	76
1993	70	57	47	48	54	62	64	70	75	80	80	77
1994	70	57	47	47	52	62	67	72	77	82	81	77
1995	68	52	45	50	55	58	62	67	72	77	80	78
1996	69	61	52	50	57	60	64	70	77	82	82	75
1997	66	56	50	49	53	61	64	72	76	81	81	78
1998	67	59	47	50	52	59	62	66	72	79	82	78
1999	66	56	46	45	53	59	62	70	78	82	80	78
2000	71	59	48	49	55	59	66	71	79	79	81	75
2001	67	53	49	48	51	61	65	77	78	80	80	77
2002	69	59	47	48	53	59	66	71	77	82	80	78
2003	68	58	51	51	55	61	63	71	78	82	79	77

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Mariposa Bypass Return (Head of Reach 4B2) (Deg. F)
Alternative4 (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					55	60	66	71	76	82	82	76
1981	70	57	48	47	57	61	69	76	83	85	82	79
1982	67	57	48	46	55	60	64	73	77	83	83	76
1983	68	53	48	46	54	59	64	70	76	78	82	72
1984	67	56	49	49	54	64	66	77	81	86	83	80
1985	66	54	47	45	55	62	70	75	82	84	82	75
1986	68	55	47	50	56	63	66	73	79	83	82	75
1987	68	57	47	46	56	63	74	78	81	82	82	78
1988	72	57	49	48	58	66	69	74	79	86	83	79
1989	71	57	48	47	55	63	72	76	81	84	83	77
1990	70	59	47	48	52	63	72	76	80	86	84	79
1991	72	58	45	47	58	61	68	75	80	86	83	81
1992	73	59	48	45	56	65	72	80	81	83	84	79
1993	72	59	48	49	56	65	67	74	78	83	83	79
1994	71	58	48	49	54	65	70	76	81	86	84	79
1995	70	54	46	52	58	62	66	71	76	82	84	80
1996	71	62	53	51	59	64	68	73	80	85	84	78
1997	68	57	51	51	55	64	67	76	79	83	84	80
1998	69	60	48	51	54	63	66	69	76	83	86	80
1999	68	57	47	47	56	62	66	74	81	85	82	80
2000	73	60	50	51	57	62	69	74	82	83	83	78
2001	69	54	50	50	54	64	68	81	82	83	83	80
2002	72	60	48	49	56	63	69	75	81	86	84	81
2003	71	59	52	52	58	64	66	74	82	85	82	80

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Change in Average Simulated SJR Below Mariposa Bypass Return (Head of Reach 4B2) (Deg. F) Alternative4 (2030) - No Action (2030)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Percent Change in Average Simulated SJR Below Mariposa Bypass Return (Head of Reach 4B2) (Deg. F) From No Action (2030)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Eastside Bypass Return (Head of Reach 5) (Deg. F)
Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					52	58	66	72	76	80	81	76
1981	70	57	47	45	56	61	70	75	82	84	82	78
1982	67	57	47	44	54	59	61	69	74	82	82	76
1983	67	53	49	46	52	56	59	66	69	73	82	74
1984	67	55	50	49	54	64	67	77	81	85	83	79
1985	66	54	45	41	54	62	71	75	81	84	81	75
1986	67	54	44	48	53	58	64	70	77	83	82	75
1987	68	58	45	43	55	63	73	77	81	82	81	77
1988	71	56	48	46	58	66	69	73	79	85	82	78
1989	70	56	47	45	54	63	72	76	80	83	82	77
1990	69	59	45	46	51	63	72	75	79	85	83	78
1991	71	57	44	46	56	61	68	75	80	84	83	79
1992	71	58	47	44	55	65	72	79	80	82	83	78
1993	71	58	46	47	55	65	68	74	79	83	83	79
1994	71	58	46	46	53	65	70	75	81	85	83	79
1995	69	53	44	50	56	58	62	68	73	77	84	80
1996	71	62	52	49	58	61	68	74	79	84	83	77
1997	67	57	50	49	53	64	68	76	79	84	84	80
1998	69	60	47	49	53	60	63	66	73	78	85	80
1999	68	57	46	44	56	62	65	74	82	85	82	79
2000	72	60	49	49	56	62	70	75	81	82	83	77
2001	68	54	49	48	53	65	69	81	81	82	81	79
2002	71	59	46	48	56	63	70	74	80	85	83	81
2003	70	59	51	51	58	64	66	74	82	84	81	79

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Eastside Bypass Return (Head of Reach 5) (Deg. F)
Alternative1 (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					55	59	66	72	76	81	81	76
1981	70	57	47	47	56	62	70	75	83	84	82	78
1982	67	57	48	45	55	60	64	72	77	82	82	76
1983	67	53	49	47	53	57	61	67	69	74	81	78
1984	69	55	50	49	54	65	67	77	81	85	83	79
1985	66	54	46	43	55	62	71	75	81	84	81	75
1986	67	54	46	49	55	62	65	73	78	83	82	74
1987	68	57	46	45	55	63	73	77	81	82	81	77
1988	71	56	48	47	58	66	69	73	79	85	82	78
1989	70	56	47	45	54	63	72	76	80	83	82	77
1990	69	59	45	46	51	63	72	75	79	85	83	78
1991	71	57	44	46	56	62	68	75	80	84	83	79
1992	71	58	47	44	55	65	72	79	80	82	83	78
1993	71	58	46	47	55	66	68	74	78	84	83	78
1994	71	57	48	47	53	65	70	75	81	85	83	79
1995	69	53	44	50	57	61	65	70	76	78	83	80
1996	70	62	52	50	59	64	69	74	79	84	83	77
1997	67	57	50	51	55	64	68	75	79	83	83	79
1998	69	59	48	50	54	63	65	67	75	80	85	80
1999	68	57	46	46	56	62	66	74	81	85	82	79
2000	72	60	50	50	56	63	70	75	81	82	83	77
2001	68	54	50	49	53	65	69	81	81	82	81	78
2002	71	59	46	48	56	63	70	75	80	85	83	81
2003	70	59	51	51	58	65	66	74	82	84	81	79

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Change in Average Simulated SJR Below Eastside Bypass Return (Head of Reach 5) (Deg. F)
Alternative1 (2005) - Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					2	1	1	0	0	1	0	0
1981	0	0	1	1	0	0	0	0	0	0	0	0
1982	0	0	1	1	0	1	3	3	3	1	0	0
1983	0	0	0	2	1	1	2	1	0	1	0	4
1984	2	0	0	0	0	0	0	0	0	0	0	0
1985	0	0	1	2	0	0	0	0	0	0	0	0
1986	0	0	1	1	2	4	1	2	1	0	0	0
1987	0	0	1	2	0	0	0	0	0	0	0	0
1988	0	0	1	1	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	1	1	1	0	0	0	0	0	0	0
1995	0	0	0	0	1	3	3	2	3	1	0	0
1996	0	0	1	1	0	3	1	0	0	0	0	0
1997	0	0	0	2	1	0	0	0	0	0	0	0
1998	0	0	1	1	1	3	2	1	2	2	0	0
1999	0	0	0	1	0	0	0	0	0	0	0	0
2000	0	0	1	1	0	0	0	0	0	0	0	0
2001	0	0	1	1	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 SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Percent Change in Average Simulated SJR Below Eastside Bypass Return (Head of Reach 5) (Deg. F)
From Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					4%	2%	1%	0%	0%	2%	0%	0%
1981	0%	0%	2%	3%	0%	1%	0%	0%	0%	0%	0%	0%
1982	0%	0%	2%	3%	1%	2%	5%	4%	4%	1%	0%	0%
1983	0%	-1%	-1%	3%	3%	2%	3%	1%	0%	1%	0%	6%
1984	3%	0%	0%	1%	0%	0%	1%	0%	0%	0%	0%	0%
1985	0%	0%	3%	5%	1%	1%	0%	0%	0%	0%	0%	0%
1986	0%	0%	3%	2%	3%	7%	1%	3%	1%	0%	0%	0%
1987	0%	0%	2%	4%	0%	1%	0%	0%	0%	0%	0%	0%
1988	0%	0%	1%	1%	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%	1%	0%	0%	0%	0%	0%	0%
1994	0%	0%	3%	3%	1%	0%	0%	0%	0%	0%	0%	0%
1995	0%	0%	0%	0%	1%	5%	4%	4%	4%	1%	0%	0%
1996	0%	-1%	1%	2%	1%	5%	2%	0%	0%	0%	0%	0%
1997	0%	0%	0%	4%	3%	0%	0%	0%	0%	0%	0%	0%
1998	0%	0%	2%	2%	2%	4%	3%	2%	3%	2%	0%	0%
1999	0%	0%	1%	3%	1%	1%	1%	0%	0%	0%	0%	0%
2000	0%	0%	2%	2%	1%	1%	1%	0%	0%	0%	0%	0%
2001	0%	0%	1%	2%	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 SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Eastside Bypass Return (Head of Reach 5) (Deg. F)
Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					52	58	66	72	76	80	81	76
1981	70	57	47	45	56	61	70	75	82	84	82	78
1982	67	57	47	44	54	59	61	69	74	82	82	76
1983	67	53	49	46	52	56	59	66	69	73	82	74
1984	67	55	50	49	54	64	67	77	81	85	83	79
1985	66	54	45	41	54	62	71	75	81	84	81	75
1986	67	54	44	48	53	58	64	70	77	83	82	75
1987	68	58	45	43	55	63	73	77	81	82	81	77
1988	71	56	48	46	58	66	69	73	79	85	82	78
1989	70	56	47	45	54	63	72	76	80	83	82	77
1990	69	59	45	46	51	63	72	75	79	85	83	78
1991	71	57	44	46	56	61	68	75	80	84	83	79
1992	71	58	47	44	55	65	72	79	80	82	83	78
1993	71	58	46	47	55	65	68	74	79	83	83	79
1994	71	58	46	46	53	65	70	75	81	85	83	79
1995	69	53	44	50	56	58	62	68	73	77	84	80
1996	71	62	52	49	58	61	68	74	79	84	83	77
1997	67	57	50	49	53	64	68	76	79	84	84	80
1998	69	60	47	49	53	60	63	66	73	78	85	80
1999	68	57	46	44	56	62	65	74	82	85	82	79
2000	72	60	49	49	56	62	70	75	81	82	83	77
2001	68	54	49	48	53	65	69	81	81	82	81	79
2002	71	59	46	48	56	63	70	74	80	85	83	81
2003	70	59	51	51	58	64	66	74	82	84	81	79

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Eastside Bypass Return (Head of Reach 5) (Deg. F)
Alternative2 (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					55	59	66	72	76	81	81	76
1981	69	57	48	47	56	62	70	75	83	84	82	78
1982	67	57	48	45	55	60	64	72	77	83	82	76
1983	67	53	49	47	53	57	61	67	69	74	81	77
1984	67	55	50	49	54	65	67	77	81	85	83	79
1985	66	54	47	43	55	62	71	75	81	84	81	75
1986	67	54	46	49	55	62	65	73	78	83	82	75
1987	68	57	47	45	55	63	73	77	81	82	81	77
1988	71	56	48	47	58	66	69	73	79	85	82	78
1989	70	56	47	45	54	63	72	76	80	83	82	77
1990	69	59	45	46	51	63	72	75	79	85	83	78
1991	71	57	44	46	56	62	68	75	80	84	83	79
1992	71	58	47	44	55	65	72	79	80	82	83	78
1993	71	58	46	47	55	66	68	74	78	83	83	78
1994	71	57	48	47	53	65	70	75	81	85	83	79
1995	69	53	44	50	57	61	65	70	76	78	83	80
1996	70	62	52	50	59	64	69	74	79	84	83	77
1997	67	57	50	51	55	64	68	75	79	83	83	79
1998	68	59	48	50	54	63	65	67	75	80	85	80
1999	68	57	46	45	56	62	66	74	81	85	82	79
2000	72	60	50	50	56	62	70	75	81	82	83	77
2001	68	54	50	49	53	65	69	81	81	82	81	78
2002	71	59	46	48	56	63	70	75	80	85	83	81
2003	70	59	51	51	58	65	66	74	82	84	81	79

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Change in Average Simulated SJR Below Eastside Bypass Return (Head of Reach 5) (Deg. F) Alternative2 (2005) - Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					2	1	1	0	0	1	0	0
1981	0	0	1	1	0	0	0	0	0	0	0	0
1982	0	0	1	1	0	1	3	3	3	1	0	0
1983	0	0	0	2	1	1	2	1	0	1	0	3
1984	1	0	0	0	0	0	0	0	0	0	0	0
1985	0	0	2	2	0	0	0	0	0	0	0	0
1986	0	0	2	1	2	4	1	2	1	0	0	0
1987	0	0	1	2	0	0	0	0	0	0	0	0
1988	0	0	1	1	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	2	2	1	0	0	0	0	0	0	0
1995	0	0	0	0	1	3	3	2	3	1	0	0
1996	0	-1	1	1	1	3	1	0	0	0	0	0
1997	0	0	0	2	1	0	0	0	0	0	0	0
1998	0	0	1	1	1	3	2	1	2	2	0	0
1999	0	0	0	1	0	0	0	0	0	0	0	0
2000	0	0	1	1	0	0	0	0	0	0	0	0
2001	0	0	1	1	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 SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Percent Change in Average Simulated SJR Below Eastside Bypass Return (Head of Reach 5) (Deg. F) From Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					4%	2%	1%	0%	0%	2%	0%	0%
1981	-1%	-1%	2%	3%	0%	1%	0%	0%	0%	0%	0%	0%
1982	0%	0%	3%	3%	1%	2%	5%	4%	4%	1%	0%	0%
1983	0%	-1%	0%	3%	3%	2%	3%	1%	0%	1%	0%	4%
1984	1%	0%	0%	1%	0%	0%	1%	0%	0%	0%	0%	0%
1985	0%	0%	3%	6%	1%	1%	0%	0%	0%	0%	0%	0%
1986	0%	0%	4%	3%	4%	7%	1%	3%	1%	0%	0%	0%
1987	-1%	-1%	3%	5%	1%	1%	0%	0%	0%	0%	0%	0%
1988	0%	0%	1%	1%	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%	3%	3%	1%	0%	0%	0%	0%	0%	0%	0%
1995	0%	0%	0%	0%	1%	5%	4%	4%	4%	1%	0%	0%
1996	0%	-1%	1%	2%	1%	5%	2%	0%	0%	0%	0%	0%
1997	0%	0%	0%	4%	3%	0%	0%	0%	-1%	0%	0%	0%
1998	0%	-1%	2%	2%	3%	4%	3%	2%	3%	3%	0%	0%
1999	0%	0%	1%	2%	1%	1%	1%	0%	0%	0%	0%	0%
2000	0%	-1%	2%	2%	1%	1%	0%	0%	0%	0%	0%	0%
2001	0%	0%	2%	2%	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 SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Eastside Bypass Return (Head of Reach 5) (Deg. F)
Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					52	58	66	72	76	80	81	76
1981	70	57	47	45	56	61	70	75	82	84	82	78
1982	67	57	47	44	54	59	61	69	74	82	82	76
1983	67	53	49	46	52	56	59	66	69	73	82	74
1984	67	55	50	49	54	64	67	77	81	85	83	79
1985	66	54	45	41	54	62	71	75	81	84	81	75
1986	67	54	44	48	53	58	64	70	77	83	82	75
1987	68	58	45	43	55	63	73	77	81	82	81	77
1988	71	56	48	46	58	66	69	73	79	85	82	78
1989	70	56	47	45	54	63	72	76	80	83	82	77
1990	69	59	45	46	51	63	72	75	79	85	83	78
1991	71	57	44	46	56	61	68	75	80	84	83	79
1992	71	58	47	44	55	65	72	79	80	82	83	78
1993	71	58	46	47	55	65	68	74	79	83	83	79
1994	71	58	46	46	53	65	70	75	81	85	83	79
1995	69	53	44	50	56	58	62	68	73	77	84	80
1996	71	62	52	49	58	61	68	74	79	84	83	77
1997	67	57	50	49	53	64	68	76	79	84	84	80
1998	69	60	47	49	53	60	63	66	73	78	85	80
1999	68	57	46	44	56	62	65	74	82	85	82	79
2000	72	60	49	49	56	62	70	75	81	82	83	77
2001	68	54	49	48	53	65	69	81	81	82	81	79
2002	71	59	46	48	56	63	70	74	80	85	83	81
2003	70	59	51	51	58	64	66	74	82	84	81	79

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Eastside Bypass Return (Head of Reach 5) (Deg. F)
Alternative3 (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					55	59	64	71	75	81	81	76
1981	70	57	48	47	56	62	70	75	83	84	82	78
1982	67	57	48	45	55	60	62	71	77	82	82	76
1983	68	53	48	47	53	57	61	67	69	74	82	74
1984	67	55	50	49	54	64	65	77	81	85	83	79
1985	66	54	46	44	55	62	71	75	81	84	81	75
1986	67	54	46	49	55	62	64	71	77	83	82	75
1987	68	58	47	46	55	63	73	77	81	82	81	77
1988	71	56	49	47	58	66	69	73	79	85	82	78
1989	70	56	47	47	55	63	72	76	80	83	82	77
1990	69	59	47	47	51	63	72	74	79	85	83	78
1991	71	57	45	47	57	62	68	75	80	84	83	79
1992	71	58	48	45	56	65	72	79	80	82	83	78
1993	71	58	47	49	55	65	66	73	78	83	83	78
1994	71	58	48	48	54	65	70	75	81	85	83	79
1995	69	53	45	51	57	61	63	69	76	80	83	80
1996	71	62	52	51	59	64	67	73	80	84	83	77
1997	67	57	50	51	55	64	66	75	78	83	83	80
1998	69	60	48	50	54	63	64	67	74	84	85	80
1999	68	57	47	46	56	62	65	74	81	85	82	79
2000	72	60	50	51	56	62	69	74	81	82	83	77
2001	68	54	50	49	54	65	69	81	81	82	81	79
2002	71	59	47	49	56	63	69	74	80	85	83	81
2003	70	59	52	52	58	65	66	74	82	84	81	79

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Change in Average Simulated SJR Below Eastside Bypass Return (Head of Reach 5) (Deg. F) Alternative3 (2005) - Existing Conditions (2005)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Percent Change in Average Simulated SJR Below Eastside Bypass Return (Head of Reach 5) (Deg. F) From Existing Conditions (2005)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Eastside Bypass Return (Head of Reach 5) (Deg. F)
Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					52	58	66	72	76	80	81	76
1981	70	57	47	45	56	61	70	75	82	84	82	78
1982	67	57	47	44	54	59	61	69	74	82	82	76
1983	67	53	49	46	52	56	59	66	69	73	82	74
1984	67	55	50	49	54	64	67	77	81	85	83	79
1985	66	54	45	41	54	62	71	75	81	84	81	75
1986	67	54	44	48	53	58	64	70	77	83	82	75
1987	68	58	45	43	55	63	73	77	81	82	81	77
1988	71	56	48	46	58	66	69	73	79	85	82	78
1989	70	56	47	45	54	63	72	76	80	83	82	77
1990	69	59	45	46	51	63	72	75	79	85	83	78
1991	71	57	44	46	56	61	68	75	80	84	83	79
1992	71	58	47	44	55	65	72	79	80	82	83	78
1993	71	58	46	47	55	65	68	74	79	83	83	79
1994	71	58	46	46	53	65	70	75	81	85	83	79
1995	69	53	44	50	56	58	62	68	73	77	84	80
1996	71	62	52	49	58	61	68	74	79	84	83	77
1997	67	57	50	49	53	64	68	76	79	84	84	80
1998	69	60	47	49	53	60	63	66	73	78	85	80
1999	68	57	46	44	56	62	65	74	82	85	82	79
2000	72	60	49	49	56	62	70	75	81	82	83	77
2001	68	54	49	48	53	65	69	81	81	82	81	79
2002	71	59	46	48	56	63	70	74	80	85	83	81
2003	70	59	51	51	58	64	66	74	82	84	81	79

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Eastside Bypass Return (Head of Reach 5) (Deg. F)
Alternative4 (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					55	59	66	72	76	82	81	76
1981	69	57	47	46	56	62	70	75	83	84	82	78
1982	67	57	47	45	55	60	64	72	77	83	82	76
1983	67	53	49	47	53	57	61	67	69	74	81	75
1984	67	55	49	49	54	65	67	77	81	85	83	79
1985	66	54	46	43	55	62	71	75	81	84	81	75
1986	67	54	45	48	55	62	65	73	78	83	82	75
1987	68	57	46	45	55	63	73	77	81	82	81	77
1988	71	56	47	46	58	66	69	73	79	85	82	78
1989	70	56	47	45	54	63	72	76	80	83	82	77
1990	69	59	45	46	51	63	72	75	79	85	83	78
1991	71	57	44	46	56	62	68	75	80	84	83	79
1992	71	58	47	44	55	65	72	79	80	82	83	78
1993	71	58	46	47	55	66	68	74	78	83	83	78
1994	71	57	47	47	53	65	70	75	81	85	83	79
1995	69	53	44	50	57	61	65	70	76	78	83	80
1996	70	62	52	50	58	64	69	74	79	84	83	77
1997	67	57	50	51	54	64	68	75	79	84	83	79
1998	68	59	47	50	54	63	64	67	75	80	85	80
1999	68	57	46	45	56	62	66	74	81	85	82	79
2000	72	60	49	50	56	62	70	75	81	82	83	77
2001	68	54	49	48	53	65	69	81	81	82	81	78
2002	71	59	46	48	56	63	70	75	80	85	83	81
2003	70	59	51	51	58	65	66	74	82	84	81	79

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Change in Average Simulated SJR Below Eastside Bypass Return (Head of Reach 5) (Deg. F) Alternative4 (2005) - Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					2	1	1	0	0	2	0	0
1981	0	-1	0	1	0	0	0	0	0	0	0	0
1982	0	0	0	1	0	1	3	3	3	1	0	0
1983	0	-1	-1	1	1	1	2	1	0	1	0	1
1984	0	0	0	0	0	0	0	0	0	0	0	0
1985	0	0	1	2	0	0	0	0	0	0	0	0
1986	0	0	1	1	2	4	1	2	1	0	0	0
1987	0	-1	0	2	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	1	1	1	0	0	0	0	0	0	0
1995	0	0	0	0	1	3	3	2	3	1	0	0
1996	0	-1	0	1	0	3	1	0	0	0	0	0
1997	0	0	0	2	1	0	0	0	0	0	0	0
1998	0	-1	0	0	1	2	2	1	2	1	0	0
1999	0	0	0	1	0	0	0	0	0	0	0	0
2000	0	0	0	1	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 SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Percent Change in Average Simulated SJR Below Eastside Bypass Return (Head of Reach 5) (Deg. F) From Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					4%	2%	1%	0%	0%	2%	0%	0%
1981	0%	-1%	1%	2%	0%	0%	0%	0%	0%	0%	0%	0%
1982	0%	-1%	1%	2%	1%	2%	5%	4%	4%	1%	0%	0%
1983	0%	-1%	-1%	3%	2%	2%	3%	1%	0%	1%	0%	2%
1984	1%	0%	-1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1985	0%	-1%	2%	5%	1%	0%	0%	0%	0%	0%	0%	0%
1986	0%	-1%	2%	2%	3%	7%	1%	3%	2%	0%	0%	0%
1987	-1%	-1%	1%	4%	0%	0%	0%	0%	0%	0%	0%	0%
1988	0%	0%	0%	0%	0%	1%	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%	1%	0%	0%	0%	0%	0%	0%
1993	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1994	0%	-1%	2%	3%	1%	0%	0%	0%	0%	0%	0%	0%
1995	0%	0%	0%	0%	1%	5%	4%	4%	4%	1%	0%	0%
1996	0%	-1%	1%	2%	1%	5%	2%	0%	0%	0%	0%	0%
1997	0%	0%	-1%	4%	2%	0%	0%	0%	0%	0%	0%	0%
1998	0%	-1%	0%	1%	2%	4%	2%	2%	3%	2%	0%	0%
1999	0%	0%	1%	2%	1%	1%	1%	0%	0%	0%	0%	0%
2000	0%	-1%	1%	2%	1%	1%	0%	0%	0%	0%	0%	0%
2001	0%	0%	0%	1%	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 SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Eastside Bypass Return (Head of Reach 5) (Deg. F)
Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					52	58	66	72	76	80	81	76
1981	70	57	47	45	56	61	70	75	82	84	82	78
1982	67	57	47	44	54	59	61	69	74	82	82	76
1983	67	53	49	46	52	56	59	66	69	73	82	74
1984	67	55	50	49	54	64	67	77	81	85	83	79
1985	66	54	45	41	54	62	71	75	81	84	81	75
1986	67	54	44	48	53	58	64	70	77	83	82	75
1987	68	58	45	43	55	63	73	77	81	82	81	77
1988	71	56	48	46	58	66	69	73	79	85	82	78
1989	70	56	47	45	54	63	72	76	80	83	82	77
1990	69	59	45	46	51	63	72	75	79	85	83	78
1991	71	57	44	46	56	61	68	75	80	84	83	79
1992	71	58	47	44	55	65	72	79	80	82	83	78
1993	71	58	46	47	55	65	68	74	79	83	83	79
1994	71	58	46	46	53	65	70	75	81	85	83	79
1995	69	53	44	50	56	58	62	68	73	77	84	80
1996	71	62	52	49	58	61	68	74	79	84	83	77
1997	67	57	50	49	53	64	68	76	79	84	84	80
1998	69	60	47	49	53	60	63	66	73	78	85	80
1999	68	57	46	44	56	62	65	74	82	85	82	79
2000	72	60	49	49	56	62	70	75	81	82	83	77
2001	68	54	49	48	53	65	69	81	81	82	81	79
2002	71	59	46	48	56	63	70	74	80	85	83	81
2003	70	59	51	51	58	64	66	74	82	84	81	79

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Eastside Bypass Return (Head of Reach 5) (Deg. F)
Alternative5 (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					54	59	64	70	75	81	81	76
1981	70	57	48	47	56	62	70	75	83	84	82	78
1982	67	57	48	45	54	60	62	71	77	83	82	76
1983	68	53	48	47	53	57	61	67	69	74	82	74
1984	67	55	50	49	54	65	65	77	81	85	83	79
1985	66	54	47	44	55	62	70	75	81	84	81	75
1986	67	54	46	49	55	62	63	71	77	83	82	75
1987	68	58	47	46	56	63	73	77	81	81	81	77
1988	71	56	49	48	58	66	69	73	79	85	82	78
1989	70	56	48	47	55	63	72	76	80	83	82	77
1990	69	59	47	47	51	63	72	74	79	85	83	78
1991	71	57	45	47	56	62	68	75	80	84	83	79
1992	71	58	48	45	56	65	72	79	80	82	83	78
1993	71	58	47	49	55	65	66	73	78	83	83	78
1994	71	58	48	48	54	65	70	75	81	85	83	78
1995	69	53	46	51	57	61	63	69	76	83	84	80
1996	71	62	52	51	59	64	67	73	80	84	83	77
1997	68	57	50	51	55	64	66	75	78	83	83	80
1998	69	60	48	50	54	63	64	67	74	83	85	80
1999	68	57	47	46	56	62	65	74	81	85	82	79
2000	72	60	50	51	56	62	69	74	81	82	83	77
2001	68	54	50	49	54	65	69	81	81	82	81	78
2002	71	59	47	49	56	63	69	74	80	85	83	80
2003	70	59	52	52	58	64	66	74	82	84	81	79

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Change in Average Simulated SJR Below Eastside Bypass Return (Head of Reach 5) (Deg. F) Alternative5 (2005) - Existing Conditions (2005)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Percent Change in Average Simulated SJR Below Eastside Bypass Return (Head of Reach 5) (Deg. F) From Existing Conditions (2005)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Eastside Bypass Return (Head of Reach 5) (Deg. F)
No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					51	56	62	69	73	80	80	75
1981	69	57	47	46	55	60	68	74	81	83	81	77
1982	66	57	47	44	53	58	60	67	73	81	81	75
1983	67	53	49	45	51	55	58	64	67	72	81	73
1984	66	55	49	48	53	63	63	75	80	84	82	78
1985	65	53	46	43	54	61	69	74	80	83	80	74
1986	67	54	45	48	52	57	62	70	75	82	81	74
1987	68	57	46	45	54	61	72	76	79	80	80	76
1988	70	55	48	47	57	65	68	72	77	84	81	77
1989	69	56	47	46	54	62	70	75	79	82	81	76
1990	68	58	46	47	50	62	71	73	78	84	82	77
1991	70	56	44	46	56	60	67	74	79	83	82	78
1992	71	58	47	44	55	64	71	77	79	81	82	77
1993	70	57	46	48	55	64	64	72	76	82	82	78
1994	71	57	47	47	53	64	68	74	80	84	82	78
1995	68	52	45	50	56	58	60	65	73	75	83	79
1996	70	62	52	50	58	61	65	71	78	83	82	76
1997	67	56	50	49	52	63	64	74	77	82	83	79
1998	68	59	47	50	53	60	61	65	71	76	84	79
1999	67	56	46	45	55	61	63	72	80	84	81	78
2000	72	60	49	50	55	61	67	73	80	81	82	76
2001	67	54	49	48	53	63	67	79	80	81	80	78
2002	70	59	47	49	55	61	68	73	79	84	82	80
2003	69	58	51	51	57	63	64	73	80	83	80	78

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Eastside Bypass Return (Head of Reach 5) (Deg. F)
Alternative1 (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					55	59	64	71	75	81	81	76
1981	70	57	48	47	56	62	70	75	83	84	82	78
1982	67	57	48	46	55	60	62	71	76	82	82	76
1983	67	53	48	47	53	57	61	67	69	74	81	78
1984	69	55	50	49	54	65	65	77	81	85	83	79
1985	66	54	47	44	55	62	71	75	81	84	81	75
1986	67	54	46	49	55	62	64	71	77	83	82	75
1987	68	57	47	46	56	63	73	77	81	82	81	77
1988	71	56	48	47	58	66	69	73	79	85	82	78
1989	70	56	47	47	55	63	72	76	80	83	82	77
1990	69	59	47	47	51	63	72	74	79	85	83	78
1991	71	57	45	47	57	62	68	75	80	84	83	79
1992	71	58	48	45	56	65	72	79	80	82	83	78
1993	71	58	47	49	55	65	66	73	78	83	83	78
1994	71	58	48	49	54	65	70	75	81	85	83	79
1995	69	53	45	51	57	61	63	69	76	80	83	80
1996	70	62	53	51	59	64	67	73	80	84	83	77
1997	67	57	51	51	55	64	66	75	78	83	83	79
1998	69	59	48	51	54	63	64	67	74	83	85	80
1999	68	57	47	47	56	62	65	74	81	85	82	79
2000	72	60	50	51	56	62	69	74	81	82	83	77
2001	68	54	50	50	54	65	69	81	81	82	81	79
2002	71	59	47	49	56	63	69	74	80	85	83	81
2003	70	59	52	52	58	65	66	74	82	84	81	79

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Change in Average Simulated SJR Below Eastside Bypass Return (Head of Reach 5) (Deg. F)
Alternative1 (2030) - No Action (2030)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Percent Change in Average Simulated SJR Below Eastside Bypass Return (Head of Reach 5) (Deg. F)
From No Action (2030)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Eastside Bypass Return (Head of Reach 5) (Deg. F)
No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					51	56	62	69	73	80	80	75
1981	69	57	47	46	55	60	68	74	81	83	81	77
1982	66	57	47	44	53	58	60	67	73	81	81	75
1983	67	53	49	45	51	55	58	64	67	72	81	73
1984	66	55	49	48	53	63	63	75	80	84	82	78
1985	65	53	46	43	54	61	69	74	80	83	80	74
1986	67	54	45	48	52	57	62	70	75	82	81	74
1987	68	57	46	45	54	61	72	76	79	80	80	76
1988	70	55	48	47	57	65	68	72	77	84	81	77
1989	69	56	47	46	54	62	70	75	79	82	81	76
1990	68	58	46	47	50	62	71	73	78	84	82	77
1991	70	56	44	46	56	60	67	74	79	83	82	78
1992	71	58	47	44	55	64	71	77	79	81	82	77
1993	70	57	46	48	55	64	64	72	76	82	82	78
1994	71	57	47	47	53	64	68	74	80	84	82	78
1995	68	52	45	50	56	58	60	65	73	75	83	79
1996	70	62	52	50	58	61	65	71	78	83	82	76
1997	67	56	50	49	52	63	64	74	77	82	83	79
1998	68	59	47	50	53	60	61	65	71	76	84	79
1999	67	56	46	45	55	61	63	72	80	84	81	78
2000	72	60	49	50	55	61	67	73	80	81	82	76
2001	67	54	49	48	53	63	67	79	80	81	80	78
2002	70	59	47	49	55	61	68	73	79	84	82	80
2003	69	58	51	51	57	63	64	73	80	83	80	78

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Eastside Bypass Return (Head of Reach 5) (Deg. F)
Alternative2 (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					55	59	64	71	75	81	81	76
1981	70	57	48	47	56	62	70	75	83	84	82	78
1982	67	57	48	46	55	60	62	71	76	82	82	76
1983	67	53	48	47	53	57	61	67	69	74	81	78
1984	68	55	50	49	54	65	65	77	81	85	83	79
1985	66	54	47	44	55	62	71	75	81	84	81	75
1986	67	54	47	50	55	62	64	71	77	83	82	75
1987	68	57	47	46	56	63	73	77	81	82	81	77
1988	71	56	49	47	58	66	69	73	79	85	82	78
1989	70	56	47	47	55	63	72	76	80	83	82	77
1990	69	59	47	47	51	63	72	74	79	85	83	78
1991	71	57	45	47	57	62	68	75	80	84	83	79
1992	71	58	48	45	56	65	72	79	80	82	83	78
1993	71	58	47	49	55	65	66	73	78	83	83	78
1994	71	58	49	48	54	65	70	75	81	85	83	79
1995	69	53	45	51	57	61	63	69	76	80	83	80
1996	70	62	53	51	59	64	67	73	80	84	83	77
1997	68	57	51	51	55	64	66	75	78	83	83	79
1998	69	59	48	51	54	63	64	67	74	83	85	80
1999	68	57	47	47	56	62	65	74	81	85	82	79
2000	72	60	50	51	56	62	69	74	81	82	83	77
2001	68	54	51	50	54	65	69	81	81	82	81	79
2002	71	59	47	49	56	63	69	74	80	85	83	81
2003	70	59	52	52	58	65	66	74	82	84	81	79

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Change in Average Simulated SJR Below Eastside Bypass Return (Head of Reach 5) (Deg. F)
Alternative2 (2030) - No Action (2030)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Percent Change in Average Simulated SJR Below Eastside Bypass Return (Head of Reach 5) (Deg. F)
From No Action (2030)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Eastside Bypass Return (Head of Reach 5) (Deg. F)
No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					51	56	62	69	73	80	80	75
1981	69	57	47	46	55	60	68	74	81	83	81	77
1982	66	57	47	44	53	58	60	67	73	81	81	75
1983	67	53	49	45	51	55	58	64	67	72	81	73
1984	66	55	49	48	53	63	63	75	80	84	82	78
1985	65	53	46	43	54	61	69	74	80	83	80	74
1986	67	54	45	48	52	57	62	70	75	82	81	74
1987	68	57	46	45	54	61	72	76	79	80	80	76
1988	70	55	48	47	57	65	68	72	77	84	81	77
1989	69	56	47	46	54	62	70	75	79	82	81	76
1990	68	58	46	47	50	62	71	73	78	84	82	77
1991	70	56	44	46	56	60	67	74	79	83	82	78
1992	71	58	47	44	55	64	71	77	79	81	82	77
1993	70	57	46	48	55	64	64	72	76	82	82	78
1994	71	57	47	47	53	64	68	74	80	84	82	78
1995	68	52	45	50	56	58	60	65	73	75	83	79
1996	70	62	52	50	58	61	65	71	78	83	82	76
1997	67	56	50	49	52	63	64	74	77	82	83	79
1998	68	59	47	50	53	60	61	65	71	76	84	79
1999	67	56	46	45	55	61	63	72	80	84	81	78
2000	72	60	49	50	55	61	67	73	80	81	82	76
2001	67	54	49	48	53	63	67	79	80	81	80	78
2002	70	59	47	49	55	61	68	73	79	84	82	80
2003	69	58	51	51	57	63	64	73	80	83	80	78

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Eastside Bypass Return (Head of Reach 5) (Deg. F)
Alternative3 (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					55	59	64	71	75	81	81	76
1981	70	57	48	47	56	62	70	75	83	84	82	78
1982	67	57	48	45	55	60	62	71	77	82	82	76
1983	68	53	48	47	53	57	61	67	69	74	82	74
1984	67	55	50	49	54	64	65	77	81	85	83	79
1985	66	54	46	44	55	62	71	75	81	84	81	75
1986	67	54	46	49	55	62	64	71	77	83	82	75
1987	68	58	47	46	55	63	73	77	81	82	81	77
1988	71	56	49	47	58	66	69	73	79	85	82	78
1989	70	56	47	47	55	63	72	76	80	83	82	77
1990	69	59	47	47	51	63	72	74	79	85	83	78
1991	71	57	45	47	57	62	68	75	80	84	83	79
1992	71	58	48	45	56	65	72	79	80	82	83	78
1993	71	58	47	49	55	65	66	73	78	83	83	78
1994	71	58	48	48	54	65	70	75	81	85	83	79
1995	69	53	45	51	57	61	63	69	76	80	83	80
1996	71	62	52	51	59	64	67	73	80	84	83	77
1997	67	57	50	51	55	64	66	75	78	83	83	80
1998	69	60	48	50	54	63	64	67	74	84	85	80
1999	68	57	47	46	56	62	65	74	81	85	82	79
2000	72	60	50	51	56	62	69	74	81	82	83	77
2001	68	54	50	49	54	65	69	81	81	82	81	79
2002	71	59	47	49	56	63	69	74	80	85	83	81
2003	70	59	52	52	58	65	66	74	82	84	81	79

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Change in Average Simulated SJR Below Eastside Bypass Return (Head of Reach 5) (Deg. F)
Alternative3 (2030) - No Action (2030)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Percent Change in Average Simulated SJR Below Eastside Bypass Return (Head of Reach 5) (Deg. F)
From No Action (2030)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Eastside Bypass Return (Head of Reach 5) (Deg. F)
No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					51	56	62	69	73	80	80	75
1981	69	57	47	46	55	60	68	74	81	83	81	77
1982	66	57	47	44	53	58	60	67	73	81	81	75
1983	67	53	49	45	51	55	58	64	67	72	81	73
1984	66	55	49	48	53	63	63	75	80	84	82	78
1985	65	53	46	43	54	61	69	74	80	83	80	74
1986	67	54	45	48	52	57	62	70	75	82	81	74
1987	68	57	46	45	54	61	72	76	79	80	80	76
1988	70	55	48	47	57	65	68	72	77	84	81	77
1989	69	56	47	46	54	62	70	75	79	82	81	76
1990	68	58	46	47	50	62	71	73	78	84	82	77
1991	70	56	44	46	56	60	67	74	79	83	82	78
1992	71	58	47	44	55	64	71	77	79	81	82	77
1993	70	57	46	48	55	64	64	72	76	82	82	78
1994	71	57	47	47	53	64	68	74	80	84	82	78
1995	68	52	45	50	56	58	60	65	73	75	83	79
1996	70	62	52	50	58	61	65	71	78	83	82	76
1997	67	56	50	49	52	63	64	74	77	82	83	79
1998	68	59	47	50	53	60	61	65	71	76	84	79
1999	67	56	46	45	55	61	63	72	80	84	81	78
2000	72	60	49	50	55	61	67	73	80	81	82	76
2001	67	54	49	48	53	63	67	79	80	81	80	78
2002	70	59	47	49	55	61	68	73	79	84	82	80
2003	69	58	51	51	57	63	64	73	80	83	80	78

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR Below Eastside Bypass Return (Head of Reach 5) (Deg. F)
Alternative4 (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					55	59	64	71	75	81	81	76
1981	70	57	47	47	56	62	70	75	83	84	82	78
1982	67	57	47	45	55	60	63	71	77	82	82	76
1983	67	53	48	47	53	57	61	67	69	74	81	74
1984	67	55	49	49	54	64	65	77	81	85	83	79
1985	66	54	46	44	55	62	71	75	81	84	81	75
1986	67	54	46	49	55	62	64	71	78	83	82	75
1987	68	57	46	46	55	63	73	77	81	82	81	77
1988	71	55	48	47	58	66	69	73	79	85	82	78
1989	70	56	47	46	55	63	72	76	80	83	82	77
1990	69	59	46	47	51	63	72	75	79	85	83	78
1991	71	57	45	47	57	62	68	75	80	84	83	79
1992	71	58	48	45	56	65	72	79	80	82	83	78
1993	71	58	47	49	55	65	66	73	78	83	83	78
1994	71	57	48	48	54	65	70	75	81	85	83	79
1995	69	53	45	51	57	61	63	69	76	79	83	80
1996	70	62	52	51	59	64	67	73	80	84	83	77
1997	67	57	50	51	54	64	66	75	78	83	83	79
1998	69	59	48	50	54	63	63	67	74	82	85	80
1999	68	57	46	46	56	62	65	74	81	85	82	79
2000	72	60	49	51	56	62	69	74	81	82	83	77
2001	68	54	50	49	54	65	69	81	81	82	81	79
2002	71	59	47	49	56	63	70	74	80	85	83	81
2003	70	59	51	52	58	65	66	74	82	84	81	79

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Change in Average Simulated SJR Below Eastside Bypass Return (Head of Reach 5) (Deg. F)
Alternative4 (2030) - No Action (2030)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Percent Change in Average Simulated SJR Below Eastside Bypass Return (Head of Reach 5) (Deg. F)
From No Action (2030)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR above Merced Confluence (Deg. F)
Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					53	59	66	72	76	80	80	75
1981	68	57	47	47	55	61	69	74	81	82	81	77
1982	66	57	48	46	54	60	64	72	76	81	81	75
1983	66	53	48	45	53	57	62	69	73	76	80	75
1984	67	55	48	48	53	63	67	76	79	84	81	77
1985	65	54	46	43	54	62	70	73	79	82	80	74
1986	66	54	46	49	54	60	66	72	78	82	80	74
1987	67	57	46	46	54	62	71	75	79	80	80	76
1988	69	55	48	48	57	65	67	72	77	83	81	76
1989	68	56	48	47	54	62	70	74	78	81	80	75
1990	67	58	48	48	51	62	70	73	78	83	82	77
1991	69	57	45	47	55	62	68	74	79	83	82	78
1992	70	58	48	46	55	64	71	77	79	81	82	76
1993	70	57	47	47	54	65	68	74	78	83	81	77
1994	70	57	48	48	52	64	68	74	80	83	82	78
1995	68	53	46	50	55	59	64	70	76	79	82	78
1996	69	61	52	50	56	62	67	72	78	82	81	75
1997	66	56	49	49	53	63	67	76	79	83	82	78
1998	67	58	48	49	52	61	64	68	74	81	83	78
1999	67	57	47	48	55	62	65	73	80	83	81	77
2000	70	59	50	51	54	61	70	73	79	81	81	75
2001	66	54	50	49	53	64	69	79	79	80	80	77
2002	68	58	47	49	55	62	69	73	78	83	81	79
2003	68	57	51	51	56	63	67	73	80	82	80	77

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR above Merced Confluence (Deg. F)
Alternative1 (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					54	60	67	72	76	80	80	75
1981	68	57	47	47	55	61	69	74	81	83	81	77
1982	66	57	48	46	54	60	65	73	77	82	81	75
1983	66	53	48	46	53	58	63	69	72	76	80	76
1984	68	55	48	48	53	63	67	76	80	84	81	78
1985	65	54	46	44	54	62	70	73	80	83	80	74
1986	66	54	46	49	54	62	67	73	79	82	80	74
1987	67	57	47	46	54	62	71	75	79	80	80	76
1988	70	55	48	48	57	65	67	72	77	83	81	76
1989	68	56	48	47	54	62	70	74	78	81	80	75
1990	67	58	48	48	51	62	70	73	78	83	82	77
1991	69	56	45	47	55	62	68	74	79	83	82	78
1992	70	58	48	46	55	64	71	77	79	81	82	76
1993	70	57	47	47	54	65	68	74	78	83	82	77
1994	70	57	48	48	53	64	68	74	80	83	82	78
1995	68	53	46	50	55	60	66	71	77	80	83	78
1996	69	61	52	50	57	63	68	72	78	82	82	75
1997	67	56	49	50	54	63	67	76	79	83	82	78
1998	67	58	48	50	53	62	65	69	75	82	83	78
1999	67	57	47	47	55	62	66	73	80	84	81	78
2000	70	59	50	50	55	61	70	74	79	81	81	76
2001	66	54	50	49	53	64	69	79	79	80	80	77
2002	68	58	47	49	55	62	69	73	78	83	81	79
2003	68	57	51	51	56	64	67	73	80	82	80	77

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Change in Average Simulated SJR above Merced Confluence (Deg. F)
Alternative1 (2005) - Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					1	1	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	1	1	1	0	0	0
1983	0	0	0	1	1	1	1	1	-1	0	0	1
1984	1	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	1	3	0	1	1	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	1	1	2	1	1	0	0
1996	0	0	0	0	0	1	1	0	0	0	0	0
1997	0	0	0	1	1	0	0	0	0	0	0	0
1998	0	0	0	0	0	1	1	1	1	2	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 SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Percent Change in Average Simulated SJR above Merced Confluence (Deg. F)
From Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					2%	1%	1%	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%	2%	2%	1%	0%	0%	0%
1983	0%	0%	-1%	2%	2%	1%	2%	1%	-1%	1%	0%	2%
1984	1%	0%	0%	1%	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%	1%	4%	1%	1%	1%	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%	2%	2%	2%	1%	1%	0%	0%
1996	0%	0%	0%	0%	0%	1%	1%	0%	0%	0%	0%	0%
1997	0%	0%	0%	2%	2%	0%	0%	0%	0%	0%	0%	0%
1998	0%	0%	0%	0%	1%	2%	2%	1%	1%	2%	0%	0%
1999	0%	0%	0%	-1%	0%	0%	0%	0%	0%	0%	0%	0%
2000	1%	0%	-1%	0%	0%	0%	0%	0%	1%	0%	0%	0%
2001	1%	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 SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR above Merced Confluence (Deg. F)
Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					53	59	66	72	76	80	80	75
1981	68	57	47	47	55	61	69	74	81	82	81	77
1982	66	57	48	46	54	60	64	72	76	81	81	75
1983	66	53	48	45	53	57	62	69	73	76	80	75
1984	67	55	48	48	53	63	67	76	79	84	81	77
1985	65	54	46	43	54	62	70	73	79	82	80	74
1986	66	54	46	49	54	60	66	72	78	82	80	74
1987	67	57	46	46	54	62	71	75	79	80	80	76
1988	69	55	48	48	57	65	67	72	77	83	81	76
1989	68	56	48	47	54	62	70	74	78	81	80	75
1990	67	58	48	48	51	62	70	73	78	83	82	77
1991	69	57	45	47	55	62	68	74	79	83	82	78
1992	70	58	48	46	55	64	71	77	79	81	82	76
1993	70	57	47	47	54	65	68	74	78	83	81	77
1994	70	57	48	48	52	64	68	74	80	83	82	78
1995	68	53	46	50	55	59	64	70	76	79	82	78
1996	69	61	52	50	56	62	67	72	78	82	81	75
1997	66	56	49	49	53	63	67	76	79	83	82	78
1998	67	58	48	49	52	61	64	68	74	81	83	78
1999	67	57	47	48	55	62	65	73	80	83	81	77
2000	70	59	50	51	54	61	70	73	79	81	81	75
2001	66	54	50	49	53	64	69	79	79	80	80	77
2002	68	58	47	49	55	62	69	73	78	83	81	79
2003	68	57	51	51	56	63	67	73	80	82	80	77

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR above Merced Confluence (Deg. F)
Alternative2 (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					54	60	67	72	76	80	80	75
1981	68	57	48	47	55	61	69	74	81	83	81	77
1982	66	57	48	46	54	60	65	73	77	82	81	75
1983	66	53	48	46	53	58	63	69	72	76	80	76
1984	67	55	48	48	53	63	67	76	80	84	81	78
1985	65	54	46	44	54	62	70	73	80	83	80	74
1986	67	54	46	49	55	62	67	73	79	82	80	74
1987	67	57	47	46	54	62	71	75	79	80	80	76
1988	70	55	48	48	57	65	67	72	77	83	81	76
1989	68	56	48	47	54	62	70	74	78	81	80	75
1990	67	58	48	48	51	62	70	73	78	83	82	77
1991	69	56	45	47	55	62	68	74	79	83	82	78
1992	70	58	48	46	55	64	71	77	79	81	82	76
1993	70	57	47	47	54	65	68	74	78	83	82	77
1994	70	57	48	48	53	64	68	74	80	83	82	78
1995	68	53	46	50	55	60	66	71	77	80	83	78
1996	69	61	52	50	57	63	68	72	78	82	82	75
1997	67	56	49	50	54	63	67	76	79	83	82	78
1998	67	58	48	50	53	62	65	69	75	82	83	78
1999	67	57	47	48	55	62	66	73	80	84	81	78
2000	70	59	50	50	55	61	70	74	79	81	81	76
2001	66	54	50	49	53	64	69	79	80	80	80	77
2002	68	58	47	49	55	62	69	73	78	83	81	79
2003	68	57	51	51	56	64	67	73	80	83	80	77

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Change in Average Simulated SJR above Merced Confluence (Deg. F)
Alternative2 (2005) - Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					1	1	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	1	1	1	0	0	0
1983	0	0	0	1	1	1	1	1	-1	0	0	1
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	1	3	0	1	1	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	1	1	2	1	1	0	0
1996	0	0	0	0	0	1	1	0	0	0	0	0
1997	0	0	0	1	1	0	0	0	0	0	0	0
1998	0	0	0	0	1	1	1	1	1	2	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0
2000	1	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 SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Percent Change in Average Simulated SJR above Merced Confluence (Deg. F)
From Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					2%	1%	1%	0%	0%	0%	0%	0%
1981	0%	0%	0%	0%	0%	0%	0%	0%	1%	1%	0%	0%
1982	0%	0%	0%	0%	0%	0%	2%	2%	1%	0%	0%	0%
1983	0%	0%	0%	2%	2%	1%	2%	1%	-1%	1%	0%	1%
1984	1%	0%	0%	1%	0%	0%	0%	0%	0%	0%	0%	0%
1985	0%	0%	0%	0%	0%	0%	0%	0%	1%	0%	0%	0%
1986	0%	0%	0%	0%	1%	4%	1%	1%	1%	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	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1995	0%	0%	0%	0%	0%	2%	2%	2%	1%	1%	0%	0%
1996	0%	0%	0%	0%	0%	1%	1%	0%	0%	0%	0%	0%
1997	0%	0%	0%	2%	2%	0%	0%	0%	0%	0%	0%	0%
1998	0%	0%	0%	1%	1%	2%	2%	1%	1%	2%	0%	0%
1999	0%	0%	0%	-1%	0%	0%	0%	0%	0%	1%	0%	0%
2000	1%	0%	0%	0%	0%	0%	0%	0%	1%	0%	0%	0%
2001	1%	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 SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR above Merced Confluence (Deg. F)
Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					53	59	66	72	76	80	80	75
1981	68	57	47	47	55	61	69	74	81	82	81	77
1982	66	57	48	46	54	60	64	72	76	81	81	75
1983	66	53	48	45	53	57	62	69	73	76	80	75
1984	67	55	48	48	53	63	67	76	79	84	81	77
1985	65	54	46	43	54	62	70	73	79	82	80	74
1986	66	54	46	49	54	60	66	72	78	82	80	74
1987	67	57	46	46	54	62	71	75	79	80	80	76
1988	69	55	48	48	57	65	67	72	77	83	81	76
1989	68	56	48	47	54	62	70	74	78	81	80	75
1990	67	58	48	48	51	62	70	73	78	83	82	77
1991	69	57	45	47	55	62	68	74	79	83	82	78
1992	70	58	48	46	55	64	71	77	79	81	82	76
1993	70	57	47	47	54	65	68	74	78	83	81	77
1994	70	57	48	48	52	64	68	74	80	83	82	78
1995	68	53	46	50	55	59	64	70	76	79	82	78
1996	69	61	52	50	56	62	67	72	78	82	81	75
1997	66	56	49	49	53	63	67	76	79	83	82	78
1998	67	58	48	49	52	61	64	68	74	81	83	78
1999	67	57	47	48	55	62	65	73	80	83	81	77
2000	70	59	50	51	54	61	70	73	79	81	81	75
2001	66	54	50	49	53	64	69	79	79	80	80	77
2002	68	58	47	49	55	62	69	73	78	83	81	79
2003	68	57	51	51	56	63	67	73	80	82	80	77

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR above Merced Confluence (Deg. F)
Alternative3 (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					54	60	66	72	76	80	80	75
1981	68	57	47	47	55	61	69	74	81	83	81	77
1982	66	57	48	46	54	60	64	73	77	82	81	75
1983	66	53	47	46	53	58	63	69	73	76	80	75
1984	67	55	48	48	53	63	67	76	80	84	81	77
1985	65	54	46	44	54	62	70	73	80	83	80	74
1986	66	54	46	49	55	62	66	73	79	82	80	74
1987	67	57	47	46	54	62	71	75	79	80	80	76
1988	69	55	48	48	57	65	68	72	77	83	81	76
1989	68	56	48	47	54	62	70	74	78	81	80	75
1990	67	58	47	48	51	62	70	72	78	83	82	77
1991	69	56	45	47	55	62	68	74	79	83	82	78
1992	70	58	48	45	55	64	71	77	79	81	82	76
1993	70	57	47	48	54	65	67	74	78	83	82	77
1994	70	57	48	48	53	64	69	74	80	83	82	78
1995	68	53	46	50	55	60	65	71	76	81	83	78
1996	69	61	52	50	57	63	67	72	79	82	82	75
1997	66	56	49	50	54	63	67	75	78	83	82	78
1998	67	58	48	50	53	62	65	69	75	83	83	78
1999	67	57	47	47	55	62	65	73	80	84	81	78
2000	70	59	50	50	55	61	69	73	79	81	81	76
2001	66	54	50	49	53	64	69	79	79	80	80	77
2002	68	58	47	49	55	62	69	73	78	83	81	79
2003	68	57	51	51	57	64	67	73	80	82	80	77

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Change in Average Simulated SJR above Merced Confluence (Deg. F)
Alternative3 (2005) - Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					1	1	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	1	1	1	0	0	0
1983	0	0	-1	0	1	1	1	1	-1	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	1	3	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	-1	0	0	0	0	0	0	0	0
1993	0	0	0	1	0	0	-1	0	0	0	0	0
1994	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	1	1	1	1	2	0	0
1996	0	0	0	0	0	1	0	0	0	0	0	0
1997	0	0	0	1	1	0	-1	0	0	0	0	0
1998	0	0	0	0	1	1	0	1	1	3	0	0
1999	0	0	0	-1	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 SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Percent Change in Average Simulated SJR above Merced Confluence (Deg. F)
From Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					2%	1%	0%	-1%	0%	0%	0%	0%
1981	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1982	0%	0%	0%	0%	0%	0%	1%	1%	1%	0%	0%	0%
1983	0%	0%	-2%	1%	2%	1%	2%	1%	-1%	1%	0%	0%
1984	0%	0%	0%	1%	0%	0%	-1%	0%	1%	0%	0%	0%
1985	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1986	0%	0%	0%	1%	2%	4%	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%	-1%	-1%	0%	0%	0%	0%	0%	0%	0%	0%
1990	0%	0%	-1%	-1%	0%	0%	0%	0%	0%	0%	0%	0%
1991	0%	0%	-1%	-1%	0%	0%	0%	0%	0%	0%	0%	0%
1992	0%	0%	-1%	-2%	0%	0%	0%	0%	0%	0%	0%	0%
1993	0%	0%	0%	1%	0%	0%	-1%	-1%	0%	0%	0%	0%
1994	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1995	0%	0%	-1%	0%	0%	2%	1%	1%	1%	2%	0%	0%
1996	0%	0%	0%	1%	1%	1%	0%	0%	0%	0%	0%	0%
1997	0%	0%	0%	2%	2%	0%	-1%	-1%	0%	0%	0%	0%
1998	0%	0%	0%	1%	1%	1%	1%	1%	1%	3%	0%	0%
1999	0%	0%	0%	-1%	0%	0%	0%	0%	0%	0%	0%	0%
2000	0%	0%	-1%	0%	1%	0%	0%	0%	1%	0%	0%	0%
2001	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
2002	0%	0%	0%	1%	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 SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR above Merced Confluence (Deg. F)
Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					53	59	66	72	76	80	80	75
1981	68	57	47	47	55	61	69	74	81	82	81	77
1982	66	57	48	46	54	60	64	72	76	81	81	75
1983	66	53	48	45	53	57	62	69	73	76	80	75
1984	67	55	48	48	53	63	67	76	79	84	81	77
1985	65	54	46	43	54	62	70	73	79	82	80	74
1986	66	54	46	49	54	60	66	72	78	82	80	74
1987	67	57	46	46	54	62	71	75	79	80	80	76
1988	69	55	48	48	57	65	67	72	77	83	81	76
1989	68	56	48	47	54	62	70	74	78	81	80	75
1990	67	58	48	48	51	62	70	73	78	83	82	77
1991	69	57	45	47	55	62	68	74	79	83	82	78
1992	70	58	48	46	55	64	71	77	79	81	82	76
1993	70	57	47	47	54	65	68	74	78	83	81	77
1994	70	57	48	48	52	64	68	74	80	83	82	78
1995	68	53	46	50	55	59	64	70	76	79	82	78
1996	69	61	52	50	56	62	67	72	78	82	81	75
1997	66	56	49	49	53	63	67	76	79	83	82	78
1998	67	58	48	49	52	61	64	68	74	81	83	78
1999	67	57	47	48	55	62	65	73	80	83	81	77
2000	70	59	50	51	54	61	70	73	79	81	81	75
2001	66	54	50	49	53	64	69	79	79	80	80	77
2002	68	58	47	49	55	62	69	73	78	83	81	79
2003	68	57	51	51	56	63	67	73	80	82	80	77

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR above Merced Confluence (Deg. F)
Alternative4 (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					54	60	67	72	76	80	80	75
1981	68	57	47	47	55	61	69	74	81	83	81	77
1982	66	56	48	46	54	60	65	73	78	82	81	75
1983	66	53	48	46	53	58	63	69	73	76	80	76
1984	67	55	48	48	53	63	67	76	80	84	81	78
1985	65	53	46	43	54	62	70	73	80	83	80	74
1986	66	54	46	49	54	62	67	73	79	82	80	74
1987	67	57	46	46	54	62	71	75	79	80	80	76
1988	70	55	48	48	57	65	67	72	77	83	81	76
1989	68	55	48	47	54	62	71	75	78	81	80	75
1990	67	58	48	48	51	62	70	73	78	83	82	77
1991	69	56	45	47	55	62	68	74	79	83	82	78
1992	70	58	48	46	55	64	71	77	79	81	82	76
1993	70	57	47	47	54	65	68	74	78	83	82	77
1994	70	57	48	48	53	64	68	74	80	83	82	78
1995	68	53	46	50	55	60	66	71	77	80	83	78
1996	69	61	52	50	57	63	68	72	78	82	82	75
1997	67	56	49	50	54	63	67	76	79	83	83	78
1998	67	58	48	49	53	62	65	69	75	82	83	78
1999	67	57	47	48	55	62	66	73	80	84	81	78
2000	70	59	50	50	55	61	70	74	79	81	81	76
2001	66	54	50	49	53	64	69	79	80	80	80	77
2002	68	58	47	49	55	62	69	73	78	83	81	79
2003	68	57	51	51	56	64	67	73	80	83	80	77

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Change in Average Simulated SJR above Merced Confluence (Deg. F)
Alternative4 (2005) - Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					1	1	0	0	0	1	0	0
1981	0	0	0	0	0	0	0	0	0	0	0	0
1982	0	0	0	0	0	0	1	1	1	0	0	0
1983	0	0	0	1	1	1	1	1	-1	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	1	3	0	1	1	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	1	1	2	1	1	0	0
1996	0	0	0	0	0	1	1	0	0	0	0	0
1997	0	0	0	1	1	0	0	0	0	0	0	0
1998	0	0	0	0	0	1	1	1	1	1	0	0
1999	0	0	0	0	0	0	0	0	0	1	0	0
2000	0	0	0	0	0	0	0	0	1	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 SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Percent Change in Average Simulated SJR above Merced Confluence (Deg. F)
From Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					2%	1%	1%	0%	0%	1%	0%	0%
1981	0%	0%	-1%	0%	0%	0%	0%	0%	1%	1%	0%	0%
1982	0%	0%	-1%	0%	0%	0%	2%	2%	1%	0%	0%	0%
1983	0%	0%	-1%	2%	1%	1%	2%	1%	-1%	1%	0%	1%
1984	0%	0%	-1%	0%	0%	0%	0%	0%	1%	1%	0%	0%
1985	0%	0%	-1%	0%	0%	0%	0%	0%	1%	0%	0%	0%
1986	0%	0%	-1%	0%	1%	4%	1%	1%	1%	0%	0%	0%
1987	0%	0%	-1%	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%	-1%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1995	0%	0%	0%	0%	0%	2%	2%	2%	1%	1%	0%	0%
1996	0%	0%	0%	0%	0%	1%	1%	0%	0%	1%	1%	0%
1997	0%	0%	0%	2%	2%	0%	0%	0%	0%	0%	0%	0%
1998	0%	0%	0%	0%	1%	1%	2%	1%	1%	2%	0%	0%
1999	0%	0%	0%	0%	0%	0%	0%	0%	1%	1%	0%	0%
2000	1%	0%	-1%	0%	0%	0%	0%	0%	1%	1%	1%	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%	1%	1%	1%	0%

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR above Merced Confluence (Deg. F)
Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					53	59	66	72	76	80	80	75
1981	68	57	47	47	55	61	69	74	81	82	81	77
1982	66	57	48	46	54	60	64	72	76	81	81	75
1983	66	53	48	45	53	57	62	69	73	76	80	75
1984	67	55	48	48	53	63	67	76	79	84	81	77
1985	65	54	46	43	54	62	70	73	79	82	80	74
1986	66	54	46	49	54	60	66	72	78	82	80	74
1987	67	57	46	46	54	62	71	75	79	80	80	76
1988	69	55	48	48	57	65	67	72	77	83	81	76
1989	68	56	48	47	54	62	70	74	78	81	80	75
1990	67	58	48	48	51	62	70	73	78	83	82	77
1991	69	57	45	47	55	62	68	74	79	83	82	78
1992	70	58	48	46	55	64	71	77	79	81	82	76
1993	70	57	47	47	54	65	68	74	78	83	81	77
1994	70	57	48	48	52	64	68	74	80	83	82	78
1995	68	53	46	50	55	59	64	70	76	79	82	78
1996	69	61	52	50	56	62	67	72	78	82	81	75
1997	66	56	49	49	53	63	67	76	79	83	82	78
1998	67	58	48	49	52	61	64	68	74	81	83	78
1999	67	57	47	48	55	62	65	73	80	83	81	77
2000	70	59	50	51	54	61	70	73	79	81	81	75
2001	66	54	50	49	53	64	69	79	79	80	80	77
2002	68	58	47	49	55	62	69	73	78	83	81	79
2003	68	57	51	51	56	63	67	73	80	82	80	77

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR above Merced Confluence (Deg. F)
Alternative5 (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					54	60	66	72	76	80	80	75
1981	68	57	47	47	55	61	69	74	81	83	81	77
1982	66	57	48	46	54	60	64	73	77	82	81	75
1983	66	53	47	45	53	58	63	69	72	76	80	75
1984	67	55	48	48	53	63	67	76	80	84	81	77
1985	65	54	46	44	54	62	70	74	80	83	80	74
1986	66	54	46	49	54	62	66	73	78	82	80	74
1987	67	57	47	46	54	62	71	76	79	81	80	76
1988	70	55	49	48	57	65	68	72	77	83	81	76
1989	68	56	48	47	54	62	70	74	78	81	80	75
1990	67	58	48	48	51	62	70	72	78	83	82	77
1991	69	56	45	47	55	62	68	74	79	83	82	78
1992	70	58	48	45	55	64	71	77	79	81	82	76
1993	70	57	47	48	54	65	67	74	78	83	82	77
1994	70	57	48	48	53	64	69	74	80	84	82	78
1995	68	53	46	50	55	59	65	71	76	81	82	78
1996	69	61	52	50	57	63	67	72	79	82	82	75
1997	66	56	49	50	54	63	67	75	78	83	82	78
1998	67	58	48	50	53	62	65	69	75	83	83	78
1999	67	57	47	47	55	62	65	73	80	84	81	78
2000	70	59	50	50	55	61	69	73	79	81	81	76
2001	66	54	50	49	53	64	69	79	80	80	80	77
2002	68	58	47	49	55	62	69	73	78	83	81	79
2003	68	58	52	52	57	63	67	73	80	83	80	77

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Change in Average Simulated SJR above Merced Confluence (Deg. F)
Alternative5 (2005) - Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					1	1	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	1	1	1	0	0	0
1983	0	0	-1	0	1	1	1	1	-1	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	1	0	0	0
1986	0	0	0	0	1	2	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	-1	0	0	0	0	0	0	0	0
1993	0	0	0	1	0	0	-1	0	0	0	0	0
1994	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	1	0	1	1	2	0	0
1996	0	0	0	0	0	1	0	0	0	0	0	0
1997	0	0	0	1	1	0	-1	0	0	0	0	0
1998	0	0	0	0	1	1	0	1	1	3	0	0
1999	0	0	0	-1	0	0	0	0	0	1	0	0
2000	0	0	0	0	0	0	0	0	1	0	0	0
2001	0	0	0	0	0	0	0	0	1	1	0	0
2002	0	0	0	0	0	0	0	0	0	0	0	0
2003	0	0	0	0	0	0	0	0	1	1	1	0

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Percent Change in Average Simulated SJR above Merced Confluence (Deg. F)
From Existing Conditions (2005)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR above Merced Confluence (Deg. F)
No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					51	58	64	70	74	78	78	73
1981	67	56	47	46	54	59	67	72	78	80	79	75
1982	65	56	47	45	52	58	62	70	74	79	79	73
1983	65	52	48	44	52	56	60	67	72	74	78	73
1984	65	54	48	47	52	62	64	73	77	81	79	75
1985	64	53	45	43	52	60	68	71	77	80	78	72
1986	65	53	45	48	53	59	64	70	76	80	78	72
1987	66	56	46	45	53	60	69	73	76	78	78	74
1988	68	54	47	47	55	63	66	70	75	81	79	74
1989	66	54	47	46	52	60	68	72	76	79	78	74
1990	66	56	47	47	50	60	68	70	75	81	80	75
1991	68	55	44	46	53	60	66	72	76	80	79	76
1992	68	56	47	44	53	62	69	75	77	79	80	75
1993	69	56	46	47	53	63	65	72	76	81	79	75
1994	68	55	47	47	51	62	66	71	78	81	80	76
1995	67	52	45	49	54	57	62	68	74	77	80	76
1996	67	60	51	49	55	60	65	70	76	80	79	73
1997	65	55	49	49	52	61	64	73	76	81	80	77
1998	66	57	47	49	52	60	62	67	73	79	81	76
1999	65	56	46	46	54	60	63	70	77	81	79	76
2000	68	58	49	49	53	59	67	71	76	78	79	74
2001	64	53	49	48	52	62	66	77	77	78	77	75
2002	67	56	46	48	54	60	67	71	76	80	79	77
2003	67	56	50	51	55	61	65	71	77	80	77	75

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR above Merced Confluence (Deg. F)
Alternative1 (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					54	60	66	72	76	80	80	75
1981	68	57	48	47	55	61	69	74	81	83	81	77
1982	66	57	48	46	54	60	64	73	77	82	81	75
1983	66	53	47	45	53	58	63	69	72	76	80	76
1984	68	55	48	48	53	63	67	76	80	84	81	78
1985	65	54	46	44	54	62	70	73	80	83	80	74
1986	66	54	46	49	55	62	66	73	79	82	80	74
1987	67	57	47	46	54	62	71	75	79	80	80	76
1988	69	55	48	48	57	65	68	72	77	83	81	76
1989	68	56	48	47	54	62	70	74	78	81	80	75
1990	67	58	47	48	51	62	70	72	78	83	82	77
1991	69	56	45	47	55	62	68	74	79	83	82	78
1992	70	58	48	45	55	64	71	77	79	81	82	76
1993	70	57	47	48	54	65	67	74	78	83	82	77
1994	70	57	48	48	53	64	69	74	80	83	82	78
1995	68	53	46	50	55	60	65	71	76	81	83	78
1996	69	61	52	50	57	63	67	72	79	82	82	75
1997	67	56	50	50	54	63	67	75	78	83	82	78
1998	67	58	48	50	53	62	65	69	75	83	83	78
1999	67	57	47	47	55	62	65	73	80	84	81	78
2000	70	59	50	51	55	61	69	73	79	81	81	76
2001	66	54	50	49	53	64	69	79	79	80	80	77
2002	68	58	47	49	55	62	69	73	78	83	81	79
2003	68	57	51	51	57	64	67	73	80	82	80	77

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Change in Average Simulated SJR above Merced Confluence (Deg. F)
Alternative1 (2030) - No Action (2030)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Percent Change in Average Simulated SJR above Merced Confluence (Deg. F)
From No Action (2030)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR above Merced Confluence (Deg. F)
No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					51	58	64	70	74	78	78	73
1981	67	56	47	46	54	59	67	72	78	80	79	75
1982	65	56	47	45	52	58	62	70	74	79	79	73
1983	65	52	48	44	52	56	60	67	72	74	78	73
1984	65	54	48	47	52	62	64	73	77	81	79	75
1985	64	53	45	43	52	60	68	71	77	80	78	72
1986	65	53	45	48	53	59	64	70	76	80	78	72
1987	66	56	46	45	53	60	69	73	76	78	78	74
1988	68	54	47	47	55	63	66	70	75	81	79	74
1989	66	54	47	46	52	60	68	72	76	79	78	74
1990	66	56	47	47	50	60	68	70	75	81	80	75
1991	68	55	44	46	53	60	66	72	76	80	79	76
1992	68	56	47	44	53	62	69	75	77	79	80	75
1993	69	56	46	47	53	63	65	72	76	81	79	75
1994	68	55	47	47	51	62	66	71	78	81	80	76
1995	67	52	45	49	54	57	62	68	74	77	80	76
1996	67	60	51	49	55	60	65	70	76	80	79	73
1997	65	55	49	49	52	61	64	73	76	81	80	77
1998	66	57	47	49	52	60	62	67	73	79	81	76
1999	65	56	46	46	54	60	63	70	77	81	79	76
2000	68	58	49	49	53	59	67	71	76	78	79	74
2001	64	53	49	48	52	62	66	77	77	78	77	75
2002	67	56	46	48	54	60	67	71	76	80	79	77
2003	67	56	50	51	55	61	65	71	77	80	77	75

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR above Merced Confluence (Deg. F)
Alternative2 (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					54	60	66	72	76	80	80	75
1981	68	57	48	47	55	61	69	74	81	83	81	77
1982	66	57	48	46	54	60	64	73	77	82	81	75
1983	66	53	47	46	53	58	63	69	72	76	80	76
1984	67	55	48	48	53	63	67	76	80	84	81	78
1985	65	54	46	44	54	62	70	73	80	83	80	74
1986	66	54	46	49	55	62	66	73	79	82	80	74
1987	67	57	47	46	54	62	71	75	79	80	80	76
1988	70	55	48	48	57	65	68	72	77	83	81	76
1989	68	56	48	47	54	62	70	74	78	81	80	75
1990	67	58	47	48	51	62	70	72	78	83	82	77
1991	69	56	45	47	55	62	68	74	79	83	82	78
1992	70	58	48	45	55	64	71	77	79	81	82	76
1993	70	57	47	48	54	65	67	74	78	83	82	77
1994	70	57	48	48	53	64	69	74	80	83	82	78
1995	68	53	46	50	55	60	65	71	76	81	83	78
1996	69	61	52	50	57	63	67	72	79	82	82	75
1997	67	56	50	50	54	63	67	75	78	83	82	78
1998	67	58	48	50	53	62	65	69	75	83	83	78
1999	67	57	47	47	55	62	65	73	80	84	81	78
2000	70	59	50	51	55	61	69	73	79	81	81	76
2001	66	54	50	49	53	64	69	79	79	80	80	77
2002	68	58	47	49	55	62	69	73	78	83	81	79
2003	68	57	51	51	57	64	67	73	80	82	80	77

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Change in Average Simulated SJR above Merced Confluence (Deg. F)
Alternative2 (2030) - No Action (2030)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Percent Change in Average Simulated SJR above Merced Confluence (Deg. F)
From No Action (2030)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR above Merced Confluence (Deg. F)
No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					51	58	64	70	74	78	78	73
1981	67	56	47	46	54	59	67	72	78	80	79	75
1982	65	56	47	45	52	58	62	70	74	79	79	73
1983	65	52	48	44	52	56	60	67	72	74	78	73
1984	65	54	48	47	52	62	64	73	77	81	79	75
1985	64	53	45	43	52	60	68	71	77	80	78	72
1986	65	53	45	48	53	59	64	70	76	80	78	72
1987	66	56	46	45	53	60	69	73	76	78	78	74
1988	68	54	47	47	55	63	66	70	75	81	79	74
1989	66	54	47	46	52	60	68	72	76	79	78	74
1990	66	56	47	47	50	60	68	70	75	81	80	75
1991	68	55	44	46	53	60	66	72	76	80	79	76
1992	68	56	47	44	53	62	69	75	77	79	80	75
1993	69	56	46	47	53	63	65	72	76	81	79	75
1994	68	55	47	47	51	62	66	71	78	81	80	76
1995	67	52	45	49	54	57	62	68	74	77	80	76
1996	67	60	51	49	55	60	65	70	76	80	79	73
1997	65	55	49	49	52	61	64	73	76	81	80	77
1998	66	57	47	49	52	60	62	67	73	79	81	76
1999	65	56	46	46	54	60	63	70	77	81	79	76
2000	68	58	49	49	53	59	67	71	76	78	79	74
2001	64	53	49	48	52	62	66	77	77	78	77	75
2002	67	56	46	48	54	60	67	71	76	80	79	77
2003	67	56	50	51	55	61	65	71	77	80	77	75

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR above Merced Confluence (Deg. F)
Alternative3 (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					54	60	66	72	76	80	80	75
1981	68	57	47	47	55	61	69	74	81	83	81	77
1982	66	57	48	46	54	60	64	73	77	82	81	75
1983	66	53	47	46	53	58	63	69	73	76	80	75
1984	67	55	48	48	53	63	67	76	80	84	81	77
1985	65	54	46	44	54	62	70	73	80	83	80	74
1986	66	54	46	49	55	62	66	73	79	82	80	74
1987	67	57	47	46	54	62	71	75	79	80	80	76
1988	69	55	48	48	57	65	68	72	77	83	81	76
1989	68	56	48	47	54	62	70	74	78	81	80	75
1990	67	58	47	48	51	62	70	72	78	83	82	77
1991	69	56	45	47	55	62	68	74	79	83	82	78
1992	70	58	48	45	55	64	71	77	79	81	82	76
1993	70	57	47	48	54	65	67	74	78	83	82	77
1994	70	57	48	48	53	64	69	74	80	83	82	78
1995	68	53	46	50	55	60	65	71	76	81	83	78
1996	69	61	52	50	57	63	67	72	79	82	82	75
1997	66	56	49	50	54	63	67	75	78	83	82	78
1998	67	58	48	50	53	62	65	69	75	83	83	78
1999	67	57	47	47	55	62	65	73	80	84	81	78
2000	70	59	50	50	55	61	69	73	79	81	81	76
2001	66	54	50	49	53	64	69	79	79	80	80	77
2002	68	58	47	49	55	62	69	73	78	83	81	79
2003	68	57	51	51	57	64	67	73	80	82	80	77

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Change in Average Simulated SJR above Merced Confluence (Deg. F)
Alternative3 (2030) - No Action (2030)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Percent Change in Average Simulated SJR above Merced Confluence (Deg. F)
From No Action (2030)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR above Merced Confluence (Deg. F)
No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					51	58	64	70	74	78	78	73
1981	67	56	47	46	54	59	67	72	78	80	79	75
1982	65	56	47	45	52	58	62	70	74	79	79	73
1983	65	52	48	44	52	56	60	67	72	74	78	73
1984	65	54	48	47	52	62	64	73	77	81	79	75
1985	64	53	45	43	52	60	68	71	77	80	78	72
1986	65	53	45	48	53	59	64	70	76	80	78	72
1987	66	56	46	45	53	60	69	73	76	78	78	74
1988	68	54	47	47	55	63	66	70	75	81	79	74
1989	66	54	47	46	52	60	68	72	76	79	78	74
1990	66	56	47	47	50	60	68	70	75	81	80	75
1991	68	55	44	46	53	60	66	72	76	80	79	76
1992	68	56	47	44	53	62	69	75	77	79	80	75
1993	69	56	46	47	53	63	65	72	76	81	79	75
1994	68	55	47	47	51	62	66	71	78	81	80	76
1995	67	52	45	49	54	57	62	68	74	77	80	76
1996	67	60	51	49	55	60	65	70	76	80	79	73
1997	65	55	49	49	52	61	64	73	76	81	80	77
1998	66	57	47	49	52	60	62	67	73	79	81	76
1999	65	56	46	46	54	60	63	70	77	81	79	76
2000	68	58	49	49	53	59	67	71	76	78	79	74
2001	64	53	49	48	52	62	66	77	77	78	77	75
2002	67	56	46	48	54	60	67	71	76	80	79	77
2003	67	56	50	51	55	61	65	71	77	80	77	75

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated SJR above Merced Confluence (Deg. F)
Alternative4 (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					54	60	66	72	76	80	80	75
1981	68	57	47	47	55	61	69	74	81	83	81	77
1982	66	56	48	46	54	60	65	73	77	82	81	75
1983	66	53	48	46	53	58	63	70	73	76	80	75
1984	67	55	48	48	53	63	67	76	80	84	81	78
1985	65	53	46	44	54	62	70	73	80	83	80	74
1986	66	54	46	49	55	62	66	73	79	82	80	74
1987	67	57	46	46	54	62	71	75	79	80	80	76
1988	69	55	48	48	57	65	68	72	77	83	81	76
1989	68	55	48	47	54	62	70	74	78	81	80	75
1990	67	58	47	48	51	62	70	72	78	83	82	77
1991	69	56	45	47	55	62	68	74	79	83	82	78
1992	70	58	48	45	55	64	71	77	79	81	82	76
1993	70	57	47	48	54	65	67	74	78	83	82	77
1994	70	57	48	48	53	64	69	74	80	83	82	78
1995	68	53	46	50	55	60	65	71	77	81	83	78
1996	69	61	52	50	57	63	67	72	79	82	82	75
1997	66	56	49	50	54	63	66	75	78	83	83	78
1998	67	58	48	50	53	62	65	69	75	83	83	78
1999	67	57	47	47	55	62	65	73	80	84	81	78
2000	70	59	50	50	55	61	69	73	79	81	81	76
2001	66	54	50	49	53	64	69	79	79	80	80	77
2002	68	57	47	49	55	62	69	73	78	83	81	79
2003	68	57	51	51	57	64	67	73	80	82	80	77

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Change in Average Simulated SJR above Merced Confluence (Deg. F)
Alternative4 (2030) - No Action (2030)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Percent Change in Average Simulated SJR above Merced Confluence (Deg. F)
From No Action (2030)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated San Joaquin River Below Merced Confluence (Deg. F)
Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					53	58	65	69	76	80	79	72
1981	65	56	48	47	55	60	69	73	80	82	81	77
1982	66	56	48	46	53	58	61	68	74	79	80	73
1983	62	52	49	46	52	57	60	67	70	74	77	71
1984	63	55	49	49	53	63	66	75	79	83	81	77
1985	64	54	50	46	54	61	69	72	79	82	80	74
1986	65	53	46	49	54	59	64	70	77	82	80	73
1987	66	56	46	46	54	61	71	74	78	80	80	75
1988	69	54	48	48	56	64	67	71	77	83	80	76
1989	68	55	48	47	54	61	70	73	77	81	80	75
1990	67	57	47	48	51	62	69	71	77	83	82	77
1991	69	55	46	48	55	61	67	72	78	82	81	77
1992	69	56	48	46	55	63	70	76	79	81	82	76
1993	68	55	47	47	54	64	64	70	76	81	75	72
1994	64	56	48	48	52	63	67	71	79	80	82	77
1995	66	52	47	50	55	58	62	66	70	76	80	75
1996	62	59	52	50	55	60	66	69	78	82	81	75
1997	65	56	50	50	53	61	66	74	78	83	82	78
1998	67	58	48	50	52	60	63	66	71	77	79	71
1999	63	56	48	49	54	60	63	70	79	83	81	77
2000	69	58	50	51	54	59	68	72	78	80	80	75
2001	65	54	50	49	52	63	67	74	78	80	79	76
2002	67	57	48	49	55	61	68	70	77	82	80	79
2003	67	56	51	51	56	63	66	70	79	82	79	76

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated San Joaquin River Below Merced Confluence (Deg. F)
Alternative1 (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					53	58	65	69	76	80	79	72
1981	66	56	48	47	55	61	69	73	81	82	81	77
1982	66	56	48	46	53	58	61	67	74	79	80	74
1983	63	52	48	47	53	57	61	67	70	74	78	72
1984	63	55	49	49	53	63	67	75	79	84	81	77
1985	65	54	49	46	54	61	69	72	79	83	80	74
1986	65	53	46	49	54	60	64	69	78	82	80	74
1987	66	56	46	46	54	61	71	74	78	80	80	76
1988	69	54	48	48	56	65	67	71	77	83	80	76
1989	68	55	48	47	54	61	70	73	77	81	80	75
1990	67	57	47	48	51	62	69	71	77	83	82	77
1991	69	55	46	48	55	61	67	72	78	82	81	77
1992	69	56	48	46	55	64	70	76	79	81	82	76
1993	68	55	47	47	54	64	64	70	76	81	76	73
1994	65	56	48	48	52	63	67	71	79	80	82	77
1995	66	52	47	50	55	58	62	66	68	76	81	75
1996	63	60	52	50	55	59	66	68	78	82	81	75
1997	65	56	50	50	53	62	66	74	78	83	82	78
1998	67	58	48	50	53	60	63	66	70	78	80	72
1999	63	56	48	49	54	61	63	70	79	83	81	77
2000	69	58	50	51	54	59	68	72	79	81	81	75
2001	65	54	50	49	52	63	67	74	78	80	79	76
2002	67	57	48	49	55	61	68	70	77	82	80	79
2003	67	56	51	51	56	63	66	70	79	82	79	76

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Change in Average Simulated San Joaquin River Below Merced Confluence (Deg. F)
Alternative1 (2005) - Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					1	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	-1	-1	0	0	0
1983	0	0	0	1	1	1	1	0	0	0	0	1
1984	1	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	1	1	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	1	1
1994	1	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	-2	0	0	1
1996	1	0	0	0	0	0	0	0	0	0	0	0
1997	0	0	0	1	1	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0	-1	0	0	1
1999	0	0	0	0	0	0	0	0	0	0	0	0
2000	1	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 SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Percent Change in Average Simulated San Joaquin River Below Merced Confluence (Deg. F)
From Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					1%	0%	0%	0%	0%	0%	1%	1%
1981	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1982	0%	0%	0%	0%	0%	0%	0%	-1%	-1%	0%	0%	0%
1983	0%	0%	0%	2%	1%	1%	1%	1%	0%	1%	1%	1%
1984	1%	0%	0%	0%	0%	0%	0%	0%	0%	1%	0%	0%
1985	0%	0%	-1%	-1%	0%	0%	0%	0%	0%	0%	0%	0%
1986	0%	0%	0%	0%	1%	2%	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%	1%	1%
1994	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1995	0%	0%	0%	0%	0%	1%	0%	-1%	-2%	0%	1%	1%
1996	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1997	1%	0%	0%	2%	1%	0%	0%	0%	0%	0%	0%	0%
1998	1%	0%	0%	0%	0%	0%	1%	0%	-1%	0%	1%	1%
1999	1%	0%	0%	-1%	0%	0%	0%	0%	1%	1%	0%	1%
2000	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	1%	1%
2001	1%	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 SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated San Joaquin River Below Merced Confluence (Deg. F)
Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					53	58	65	69	76	80	79	72
1981	65	56	48	47	55	60	69	73	80	82	81	77
1982	66	56	48	46	53	58	61	68	74	79	80	73
1983	62	52	49	46	52	57	60	67	70	74	77	71
1984	63	55	49	49	53	63	66	75	79	83	81	77
1985	64	54	50	46	54	61	69	72	79	82	80	74
1986	65	53	46	49	54	59	64	70	77	82	80	73
1987	66	56	46	46	54	61	71	74	78	80	80	75
1988	69	54	48	48	56	64	67	71	77	83	80	76
1989	68	55	48	47	54	61	70	73	77	81	80	75
1990	67	57	47	48	51	62	69	71	77	83	82	77
1991	69	55	46	48	55	61	67	72	78	82	81	77
1992	69	56	48	46	55	63	70	76	79	81	82	76
1993	68	55	47	47	54	64	64	70	76	81	75	72
1994	64	56	48	48	52	63	67	71	79	80	82	77
1995	66	52	47	50	55	58	62	66	70	76	80	75
1996	62	59	52	50	55	60	66	69	78	82	81	75
1997	65	56	50	50	53	61	66	74	78	83	82	78
1998	67	58	48	50	52	60	63	66	71	77	79	71
1999	63	56	48	49	54	60	63	70	79	83	81	77
2000	69	58	50	51	54	59	68	72	78	80	80	75
2001	65	54	50	49	52	63	67	74	78	80	79	76
2002	67	57	48	49	55	61	68	70	77	82	80	79
2003	67	56	51	51	56	63	66	70	79	82	79	76

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated San Joaquin River Below Merced Confluence (Deg. F)
Alternative2 (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					53	58	65	69	76	80	79	72
1981	66	56	48	47	55	61	69	73	81	82	81	77
1982	66	56	48	46	53	58	61	67	74	79	80	73
1983	62	52	48	47	53	57	61	67	70	74	78	72
1984	63	55	49	49	53	63	67	75	79	84	81	77
1985	65	54	49	46	54	61	70	72	79	83	80	74
1986	66	53	46	49	54	60	64	69	78	82	80	74
1987	66	56	47	46	54	62	71	74	78	80	80	76
1988	69	54	48	48	56	65	67	71	77	83	80	76
1989	68	55	48	47	54	61	70	73	77	81	80	75
1990	67	57	47	48	51	62	69	71	77	83	82	77
1991	69	55	46	48	55	61	67	72	78	82	81	77
1992	69	56	48	46	55	64	70	76	79	81	82	76
1993	68	55	47	47	54	64	64	70	76	81	76	73
1994	65	56	48	48	52	63	67	71	79	80	82	77
1995	66	52	47	50	55	58	62	66	68	76	81	75
1996	63	60	52	50	55	59	66	69	78	82	81	75
1997	65	56	50	50	53	62	66	74	78	83	82	78
1998	67	58	48	50	53	60	63	66	70	77	79	72
1999	63	56	48	49	54	61	63	70	79	83	81	77
2000	69	58	50	51	54	59	68	72	79	81	81	75
2001	65	54	50	49	52	63	67	74	79	80	79	76
2002	67	57	48	49	55	61	68	70	77	82	80	79
2003	67	56	51	51	56	63	66	71	79	82	79	76

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Change in Average Simulated San Joaquin River Below Merced Confluence (Deg. F)
Alternative2 (2005) - Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					1	0	0	0	0	0	0	0
1981	1	0	0	0	0	0	0	0	0	0	0	0
1982	0	0	0	0	0	0	0	-1	-1	0	0	0
1983	0	0	0	1	1	1	1	0	0	0	0	1
1984	0	0	0	0	0	0	0	0	0	0	0	0
1985	0	0	-1	0	0	0	0	0	0	0	0	0
1986	0	0	0	0	1	1	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	1	1
1994	1	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	-2	0	0	1
1996	1	0	0	0	0	0	0	0	0	0	0	0
1997	1	0	0	1	1	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0	-1	0	0	1
1999	0	0	0	0	0	0	0	0	1	1	0	0
2000	1	0	0	0	0	0	0	0	0	0	0	0
2001	1	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 SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Percent Change in Average Simulated San Joaquin River Below Merced Confluence (Deg. F)
From Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					1%	0%	0%	0%	0%	0%	0%	1%
1981	1%	0%	0%	0%	0%	0%	0%	0%	1%	1%	0%	0%
1982	0%	1%	0%	0%	0%	0%	0%	-1%	-1%	0%	0%	0%
1983	0%	0%	0%	2%	1%	1%	1%	1%	0%	1%	1%	1%
1984	0%	0%	0%	0%	0%	0%	0%	0%	1%	1%	0%	0%
1985	0%	0%	-1%	-1%	0%	0%	0%	0%	1%	0%	0%	0%
1986	1%	0%	0%	0%	1%	2%	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%	1%	1%
1994	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1995	0%	0%	0%	0%	0%	1%	0%	-1%	-2%	0%	1%	1%
1996	1%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1997	1%	0%	0%	2%	1%	0%	0%	0%	0%	0%	0%	0%
1998	1%	1%	0%	0%	0%	0%	1%	0%	-1%	0%	0%	1%
1999	0%	0%	0%	0%	0%	0%	0%	0%	1%	1%	0%	1%
2000	1%	1%	0%	0%	0%	0%	0%	0%	1%	1%	1%	1%
2001	1%	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%	1%	0%	0%	0%

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated San Joaquin River Below Merced Confluence (Deg. F)
Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					53	58	65	69	76	80	79	72
1981	65	56	48	47	55	60	69	73	80	82	81	77
1982	66	56	48	46	53	58	61	68	74	79	80	73
1983	62	52	49	46	52	57	60	67	70	74	77	71
1984	63	55	49	49	53	63	66	75	79	83	81	77
1985	64	54	50	46	54	61	69	72	79	82	80	74
1986	65	53	46	49	54	59	64	70	77	82	80	73
1987	66	56	46	46	54	61	71	74	78	80	80	75
1988	69	54	48	48	56	64	67	71	77	83	80	76
1989	68	55	48	47	54	61	70	73	77	81	80	75
1990	67	57	47	48	51	62	69	71	77	83	82	77
1991	69	55	46	48	55	61	67	72	78	82	81	77
1992	69	56	48	46	55	63	70	76	79	81	82	76
1993	68	55	47	47	54	64	64	70	76	81	75	72
1994	64	56	48	48	52	63	67	71	79	80	82	77
1995	66	52	47	50	55	58	62	66	70	76	80	75
1996	62	59	52	50	55	60	66	69	78	82	81	75
1997	65	56	50	50	53	61	66	74	78	83	82	78
1998	67	58	48	50	52	60	63	66	71	77	79	71
1999	63	56	48	49	54	60	63	70	79	83	81	77
2000	69	58	50	51	54	59	68	72	78	80	80	75
2001	65	54	50	49	52	63	67	74	78	80	79	76
2002	67	57	48	49	55	61	68	70	77	82	80	79
2003	67	56	51	51	56	63	66	70	79	82	79	76

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated San Joaquin River Below Merced Confluence (Deg. F)
Alternative3 (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					53	58	65	69	75	80	79	72
1981	65	56	48	47	55	61	69	73	81	82	81	77
1982	66	56	48	46	53	58	61	67	74	78	80	73
1983	62	52	48	46	53	57	61	67	71	74	77	71
1984	63	55	49	49	53	63	66	75	79	84	81	77
1985	64	54	49	46	54	61	70	73	79	82	80	74
1986	65	53	46	49	54	60	64	69	77	82	80	73
1987	66	56	46	46	54	62	71	74	78	80	80	75
1988	69	54	48	48	56	65	67	71	77	83	80	76
1989	68	55	48	47	54	61	70	73	77	81	80	75
1990	67	57	47	48	51	62	69	71	77	83	82	77
1991	69	55	45	48	55	61	67	72	78	82	81	77
1992	69	56	48	46	55	64	70	76	79	81	82	76
1993	68	55	47	48	54	64	65	70	76	81	76	72
1994	64	56	48	48	53	63	67	71	79	80	82	77
1995	66	52	46	50	55	58	62	66	69	74	80	75
1996	63	60	52	50	55	59	66	69	78	82	81	75
1997	65	56	50	50	53	62	66	74	78	83	82	78
1998	67	58	48	50	53	60	63	66	71	74	79	71
1999	63	56	48	48	54	61	63	70	79	83	81	77
2000	69	58	50	51	54	59	68	72	79	80	81	75
2001	65	54	50	49	53	63	67	74	78	80	79	76
2002	67	57	48	49	55	61	68	70	77	82	80	79
2003	67	56	51	51	56	63	66	71	79	82	79	76

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Change in Average Simulated San Joaquin River Below Merced Confluence (Deg. F)
Alternative3 (2005) - Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					1	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	-1	0	0	0	0
1983	0	0	0	1	1	1	1	0	0	0	0	0
1984	0	0	0	0	0	0	0	0	0	0	0	0
1985	0	0	0	-1	0	0	0	0	0	0	0	0
1986	0	0	0	0	1	1	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	-1	0	0	0	0	0	0	0	0
1992	0	0	0	-1	0	0	0	0	0	0	0	0
1993	0	0	0	0	0	0	1	1	0	0	1	0
1994	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	-1	-2	0	0
1996	0	0	0	0	0	0	0	1	0	0	0	0
1997	0	0	0	1	1	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0	-1	-3	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 SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Percent Change in Average Simulated San Joaquin River Below Merced Confluence (Deg. F)
From Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					1%	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%	-1%	-1%	-1%	0%	0%
1983	0%	0%	-1%	1%	1%	1%	1%	1%	0%	1%	0%	0%
1984	0%	0%	0%	0%	0%	0%	0%	0%	1%	1%	0%	0%
1985	0%	0%	-1%	-1%	0%	0%	0%	0%	0%	0%	0%	0%
1986	0%	0%	0%	0%	1%	2%	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%	-1%	0%	0%	0%	0%	0%	0%	0%	0%
1990	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1991	0%	0%	-1%	-1%	0%	0%	0%	0%	0%	0%	0%	0%
1992	0%	0%	0%	-1%	0%	0%	0%	0%	0%	0%	0%	0%
1993	0%	0%	0%	1%	0%	0%	1%	1%	1%	0%	1%	0%
1994	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1995	0%	0%	-1%	0%	0%	1%	0%	-1%	-2%	-2%	0%	0%
1996	0%	0%	0%	1%	0%	0%	1%	1%	0%	0%	0%	0%
1997	0%	0%	0%	2%	1%	0%	0%	0%	0%	0%	0%	0%
1998	0%	0%	0%	0%	0%	1%	1%	0%	-1%	-4%	0%	0%
1999	0%	0%	0%	-1%	0%	0%	1%	1%	1%	1%	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%	1%	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 SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated San Joaquin River Below Merced Confluence (Deg. F)
Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					53	58	65	69	76	80	79	72
1981	65	56	48	47	55	60	69	73	80	82	81	77
1982	66	56	48	46	53	58	61	68	74	79	80	73
1983	62	52	49	46	52	57	60	67	70	74	77	71
1984	63	55	49	49	53	63	66	75	79	83	81	77
1985	64	54	50	46	54	61	69	72	79	82	80	74
1986	65	53	46	49	54	59	64	70	77	82	80	73
1987	66	56	46	46	54	61	71	74	78	80	80	75
1988	69	54	48	48	56	64	67	71	77	83	80	76
1989	68	55	48	47	54	61	70	73	77	81	80	75
1990	67	57	47	48	51	62	69	71	77	83	82	77
1991	69	55	46	48	55	61	67	72	78	82	81	77
1992	69	56	48	46	55	63	70	76	79	81	82	76
1993	68	55	47	47	54	64	64	70	76	81	75	72
1994	64	56	48	48	52	63	67	71	79	80	82	77
1995	66	52	47	50	55	58	62	66	70	76	80	75
1996	62	59	52	50	55	60	66	69	78	82	81	75
1997	65	56	50	50	53	61	66	74	78	83	82	78
1998	67	58	48	50	52	60	63	66	71	77	79	71
1999	63	56	48	49	54	60	63	70	79	83	81	77
2000	69	58	50	51	54	59	68	72	78	80	80	75
2001	65	54	50	49	52	63	67	74	78	80	79	76
2002	67	57	48	49	55	61	68	70	77	82	80	79
2003	67	56	51	51	56	63	66	70	79	82	79	76

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated San Joaquin River Below Merced Confluence (Deg. F)
Alternative4 (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					53	58	65	69	76	80	80	72
1981	66	56	48	47	55	61	69	73	81	83	81	77
1982	66	56	48	46	53	58	61	67	74	79	80	73
1983	62	52	48	46	53	57	61	67	71	74	78	71
1984	63	55	49	49	53	63	67	75	79	84	81	77
1985	65	54	49	46	54	61	69	72	79	83	80	74
1986	65	53	46	49	54	60	64	69	78	82	80	74
1987	66	56	46	46	54	61	71	74	78	80	80	75
1988	69	54	48	48	56	65	67	71	77	83	80	76
1989	68	55	48	47	54	61	70	73	77	81	80	75
1990	67	57	47	48	51	62	69	71	77	83	82	77
1991	69	55	46	48	55	61	67	72	78	82	81	77
1992	69	56	48	46	55	64	70	76	79	81	82	76
1993	68	55	47	47	54	64	64	70	76	81	77	73
1994	65	56	48	48	52	63	67	71	79	80	82	77
1995	66	52	47	50	55	58	62	66	69	76	81	75
1996	63	60	52	50	55	59	66	69	78	82	81	75
1997	65	56	50	50	53	62	66	74	78	83	82	78
1998	67	58	48	50	53	60	63	66	70	78	79	72
1999	63	56	48	49	54	61	63	70	79	83	81	77
2000	69	58	50	51	54	59	68	72	79	81	81	75
2001	65	54	50	49	52	63	67	74	79	80	79	76
2002	67	57	48	49	55	61	68	70	77	82	80	79
2003	67	56	51	51	56	63	66	71	79	82	79	77

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Change in Average Simulated San Joaquin River Below Merced Confluence (Deg. F)
Alternative4 (2005) - Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					1	0	0	0	0	0	0	0
1981	0	0	0	0	0	0	0	0	1	1	0	0
1982	0	0	0	0	0	0	0	-1	-1	0	0	0
1983	0	0	0	1	1	1	1	0	0	0	0	0
1984	0	0	0	0	0	0	0	0	1	1	0	0
1985	0	0	0	0	0	0	0	0	0	0	0	0
1986	0	0	0	0	1	1	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	1	1
1994	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	-1	0	1	0
1996	0	0	0	0	0	0	0	0	0	0	0	0
1997	0	0	0	1	1	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0	-1	1	0	0
1999	0	0	0	0	0	0	0	0	1	1	0	0
2000	0	0	0	0	0	0	0	0	1	1	1	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	1	1	1	0

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Percent Change in Average Simulated San Joaquin River Below Merced Confluence (Deg. F)
From Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					1%	0%	0%	0%	0%	1%	1%	1%
1981	1%	0%	-1%	0%	0%	0%	0%	0%	1%	1%	0%	0%
1982	0%	0%	0%	0%	0%	0%	0%	-1%	-1%	0%	0%	0%
1983	0%	-1%	-1%	1%	1%	1%	1%	1%	1%	1%	1%	1%
1984	0%	0%	0%	0%	0%	0%	0%	0%	1%	1%	0%	0%
1985	0%	0%	-1%	-1%	0%	0%	0%	0%	1%	0%	0%	0%
1986	0%	0%	0%	0%	1%	2%	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%	1%	2%	1%
1994	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
1995	0%	0%	0%	0%	0%	1%	0%	-1%	-2%	0%	1%	1%
1996	1%	0%	0%	0%	0%	0%	0%	0%	0%	1%	1%	0%
1997	1%	0%	0%	1%	1%	0%	0%	0%	0%	0%	0%	0%
1998	0%	0%	0%	0%	0%	0%	1%	0%	-1%	1%	0%	1%
1999	0%	0%	0%	0%	0%	0%	0%	0%	1%	1%	0%	0%
2000	1%	0%	0%	0%	0%	0%	0%	0%	1%	1%	1%	0%
2001	1%	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%	1%	1%	1%	0%

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated San Joaquin River Below Merced Confluence (Deg. F)
Existing Conditions (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					53	58	65	69	76	80	79	72
1981	65	56	48	47	55	60	69	73	80	82	81	77
1982	66	56	48	46	53	58	61	68	74	79	80	73
1983	62	52	49	46	52	57	60	67	70	74	77	71
1984	63	55	49	49	53	63	66	75	79	83	81	77
1985	64	54	50	46	54	61	69	72	79	82	80	74
1986	65	53	46	49	54	59	64	70	77	82	80	73
1987	66	56	46	46	54	61	71	74	78	80	80	75
1988	69	54	48	48	56	64	67	71	77	83	80	76
1989	68	55	48	47	54	61	70	73	77	81	80	75
1990	67	57	47	48	51	62	69	71	77	83	82	77
1991	69	55	46	48	55	61	67	72	78	82	81	77
1992	69	56	48	46	55	63	70	76	79	81	82	76
1993	68	55	47	47	54	64	64	70	76	81	75	72
1994	64	56	48	48	52	63	67	71	79	80	82	77
1995	66	52	47	50	55	58	62	66	70	76	80	75
1996	62	59	52	50	55	60	66	69	78	82	81	75
1997	65	56	50	50	53	61	66	74	78	83	82	78
1998	67	58	48	50	52	60	63	66	71	77	79	71
1999	63	56	48	49	54	60	63	70	79	83	81	77
2000	69	58	50	51	54	59	68	72	78	80	80	75
2001	65	54	50	49	52	63	67	74	78	80	79	76
2002	67	57	48	49	55	61	68	70	77	82	80	79
2003	67	56	51	51	56	63	66	70	79	82	79	76

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated San Joaquin River Below Merced Confluence (Deg. F)
Alternative5 (2005)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					53	58	65	69	75	80	79	72
1981	65	56	48	47	55	61	69	73	81	83	81	77
1982	66	56	48	46	53	58	61	67	74	78	80	73
1983	62	52	48	46	53	57	61	67	70	74	78	71
1984	63	55	49	49	53	63	66	75	79	84	81	77
1985	64	54	49	46	54	61	70	73	79	83	80	74
1986	65	53	46	49	54	60	63	69	77	82	80	73
1987	66	56	47	46	54	62	71	75	79	80	80	76
1988	69	54	48	48	57	65	67	71	77	83	80	76
1989	68	55	48	47	54	61	70	73	77	81	80	75
1990	67	57	47	48	51	62	69	71	77	83	82	77
1991	69	55	45	48	55	61	67	72	78	82	81	77
1992	69	56	48	46	55	63	70	76	79	81	82	76
1993	68	55	47	48	54	64	65	70	76	81	77	72
1994	64	56	48	48	53	63	67	72	79	81	82	77
1995	66	52	46	50	55	58	62	66	69	71	80	75
1996	63	60	52	50	55	59	66	69	78	82	81	75
1997	65	56	50	51	53	62	66	74	78	83	82	78
1998	67	58	48	50	53	60	63	66	71	76	79	71
1999	63	56	48	48	54	61	63	70	79	83	81	77
2000	69	58	50	51	54	59	68	72	79	81	81	75
2001	65	54	50	49	53	63	67	75	79	80	80	77
2002	67	57	48	49	55	61	68	70	77	83	80	79
2003	67	56	51	51	56	63	66	71	79	82	80	76

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Change in Average Simulated San Joaquin River Below Merced Confluence (Deg. F)
Alternative5 (2005) - Existing Conditions (2005)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Percent Change in Average Simulated San Joaquin River Below Merced Confluence (Deg. F)
From Existing Conditions (2005)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated San Joaquin River Below Merced Confluence (Deg. F)
No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					52	56	63	68	73	78	77	70
1981	64	55	47	46	54	59	67	71	78	80	79	75
1982	65	55	47	45	52	57	59	66	72	77	78	72
1983	61	52	48	45	52	55	59	65	69	72	76	70
1984	61	54	48	48	52	61	64	73	77	81	79	75
1985	63	53	49	45	53	60	67	70	77	80	78	72
1986	64	52	45	48	53	58	62	67	75	80	78	72
1987	65	55	46	45	53	60	69	72	76	78	78	74
1988	68	53	48	47	55	63	66	69	75	81	79	74
1989	66	54	47	46	52	60	68	71	75	79	78	74
1990	66	56	46	47	50	60	67	69	75	81	80	75
1991	67	54	44	47	53	59	66	70	76	80	79	76
1992	68	55	47	45	54	62	68	74	77	79	80	74
1993	67	54	46	47	53	62	63	68	74	79	74	70
1994	63	55	47	47	51	61	65	69	77	78	80	75
1995	65	51	46	50	54	57	60	64	67	74	78	73
1996	61	58	51	49	54	58	64	67	76	80	79	73
1997	64	55	49	49	52	60	64	72	76	81	80	76
1998	65	57	47	49	52	59	61	64	69	76	77	70
1999	62	55	47	48	53	59	61	68	77	81	79	75
2000	67	57	49	50	53	57	66	70	76	78	79	73
2001	64	53	49	48	51	62	65	72	76	78	77	75
2002	66	56	47	48	54	60	66	68	75	80	78	77
2003	65	55	50	51	54	61	64	69	76	80	77	75

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated San Joaquin River Below Merced Confluence (Deg. F)
Alternative1 (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					53	58	65	69	75	80	79	72
1981	66	56	48	47	55	61	69	73	81	82	81	77
1982	66	56	48	46	53	58	61	67	74	79	80	74
1983	63	52	48	46	53	57	61	67	70	74	78	72
1984	63	55	49	49	53	63	66	75	79	84	81	77
1985	65	54	49	46	54	61	70	72	79	82	80	74
1986	65	53	46	49	54	60	64	69	77	82	80	74
1987	66	56	47	46	54	61	71	74	78	80	80	75
1988	69	54	48	48	56	65	67	71	77	83	80	76
1989	68	55	48	47	54	61	70	73	77	81	80	75
1990	67	57	47	48	51	62	69	71	77	83	82	77
1991	69	55	45	48	55	61	67	72	78	82	81	77
1992	69	56	48	46	55	64	70	76	79	81	82	76
1993	68	55	47	48	54	64	65	70	76	81	76	73
1994	65	56	48	48	53	63	67	71	79	80	82	77
1995	66	52	46	50	55	58	62	66	69	74	81	75
1996	63	60	52	50	55	59	66	69	78	82	81	75
1997	65	56	50	50	53	62	66	74	78	83	82	78
1998	67	58	48	50	53	60	63	66	71	76	80	72
1999	63	56	48	48	54	61	63	70	79	83	81	77
2000	69	58	50	51	54	59	68	72	79	80	81	75
2001	65	54	50	49	53	63	67	74	78	80	79	76
2002	67	57	48	49	55	61	68	70	77	82	80	79
2003	67	56	51	51	56	63	66	71	79	82	79	76

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Change in Average Simulated San Joaquin River Below Merced Confluence (Deg. F)
Alternative1 (2030) - No Action (2030)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Percent Change in Average Simulated San Joaquin River Below Merced Confluence (Deg. F)
From No Action (2030)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated San Joaquin River Below Merced Confluence (Deg. F)
No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					52	56	63	68	73	78	77	70
1981	64	55	47	46	54	59	67	71	78	80	79	75
1982	65	55	47	45	52	57	59	66	72	77	78	72
1983	61	52	48	45	52	55	59	65	69	72	76	70
1984	61	54	48	48	52	61	64	73	77	81	79	75
1985	63	53	49	45	53	60	67	70	77	80	78	72
1986	64	52	45	48	53	58	62	67	75	80	78	72
1987	65	55	46	45	53	60	69	72	76	78	78	74
1988	68	53	48	47	55	63	66	69	75	81	79	74
1989	66	54	47	46	52	60	68	71	75	79	78	74
1990	66	56	46	47	50	60	67	69	75	81	80	75
1991	67	54	44	47	53	59	66	70	76	80	79	76
1992	68	55	47	45	54	62	68	74	77	79	80	74
1993	67	54	46	47	53	62	63	68	74	79	74	70
1994	63	55	47	47	51	61	65	69	77	78	80	75
1995	65	51	46	50	54	57	60	64	67	74	78	73
1996	61	58	51	49	54	58	64	67	76	80	79	73
1997	64	55	49	49	52	60	64	72	76	81	80	76
1998	65	57	47	49	52	59	61	64	69	76	77	70
1999	62	55	47	48	53	59	61	68	77	81	79	75
2000	67	57	49	50	53	57	66	70	76	78	79	73
2001	64	53	49	48	51	62	65	72	76	78	77	75
2002	66	56	47	48	54	60	66	68	75	80	78	77
2003	65	55	50	51	54	61	64	69	76	80	77	75

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated San Joaquin River Below Merced Confluence (Deg. F)
Alternative2 (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					53	58	65	69	75	80	79	72
1981	66	56	48	47	55	61	69	73	81	82	81	77
1982	66	56	48	46	53	58	61	67	74	79	80	73
1983	63	52	48	46	53	57	61	67	70	74	78	72
1984	63	55	49	49	53	63	66	75	79	84	81	77
1985	65	54	49	46	54	61	70	72	79	82	80	74
1986	65	53	46	49	54	60	64	69	77	82	80	73
1987	66	56	47	46	54	62	71	74	78	80	80	75
1988	69	54	48	48	56	65	67	71	77	83	80	76
1989	68	55	48	47	54	61	70	73	77	81	80	75
1990	67	57	47	48	51	62	69	71	77	83	82	77
1991	69	55	45	48	55	61	67	72	78	82	81	77
1992	69	56	48	46	55	64	70	76	79	81	82	76
1993	68	55	47	48	54	64	65	70	76	81	76	73
1994	65	56	48	48	53	63	67	71	79	80	82	77
1995	66	52	46	50	55	58	62	66	69	74	81	75
1996	63	60	52	50	55	59	66	69	78	82	81	75
1997	65	56	50	50	53	62	66	74	78	83	82	78
1998	67	58	48	50	53	60	63	66	71	76	80	72
1999	63	56	48	48	54	61	63	70	79	83	81	77
2000	69	58	50	51	54	59	68	72	79	80	81	75
2001	65	54	50	49	53	63	67	74	78	80	79	76
2002	67	57	48	49	55	61	68	70	77	82	80	79
2003	67	56	51	51	56	63	66	71	79	82	79	76

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Change in Average Simulated San Joaquin River Below Merced Confluence (Deg. F)
Alternative2 (2030) - No Action (2030)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Percent Change in Average Simulated San Joaquin River Below Merced Confluence (Deg. F)
From No Action (2030)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated San Joaquin River Below Merced Confluence (Deg. F)
No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					52	56	63	68	73	78	77	70
1981	64	55	47	46	54	59	67	71	78	80	79	75
1982	65	55	47	45	52	57	59	66	72	77	78	72
1983	61	52	48	45	52	55	59	65	69	72	76	70
1984	61	54	48	48	52	61	64	73	77	81	79	75
1985	63	53	49	45	53	60	67	70	77	80	78	72
1986	64	52	45	48	53	58	62	67	75	80	78	72
1987	65	55	46	45	53	60	69	72	76	78	78	74
1988	68	53	48	47	55	63	66	69	75	81	79	74
1989	66	54	47	46	52	60	68	71	75	79	78	74
1990	66	56	46	47	50	60	67	69	75	81	80	75
1991	67	54	44	47	53	59	66	70	76	80	79	76
1992	68	55	47	45	54	62	68	74	77	79	80	74
1993	67	54	46	47	53	62	63	68	74	79	74	70
1994	63	55	47	47	51	61	65	69	77	78	80	75
1995	65	51	46	50	54	57	60	64	67	74	78	73
1996	61	58	51	49	54	58	64	67	76	80	79	73
1997	64	55	49	49	52	60	64	72	76	81	80	76
1998	65	57	47	49	52	59	61	64	69	76	77	70
1999	62	55	47	48	53	59	61	68	77	81	79	75
2000	67	57	49	50	53	57	66	70	76	78	79	73
2001	64	53	49	48	51	62	65	72	76	78	77	75
2002	66	56	47	48	54	60	66	68	75	80	78	77
2003	65	55	50	51	54	61	64	69	76	80	77	75

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated San Joaquin River Below Merced Confluence (Deg. F)
Alternative3 (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					53	58	65	69	75	80	79	72
1981	65	56	48	47	55	61	69	73	81	82	81	77
1982	66	56	48	46	53	58	61	67	74	78	80	73
1983	62	52	48	46	53	57	61	67	71	74	77	71
1984	63	55	49	49	53	63	66	75	79	84	81	77
1985	64	54	49	46	54	61	70	73	79	82	80	74
1986	65	53	46	49	54	60	64	69	77	82	80	73
1987	66	56	46	46	54	62	71	74	78	80	80	75
1988	69	54	48	48	56	65	67	71	77	83	80	76
1989	68	55	48	47	54	61	70	73	77	81	80	75
1990	67	57	47	48	51	62	69	71	77	83	82	77
1991	69	55	45	48	55	61	67	72	78	82	81	77
1992	69	56	48	46	55	64	70	76	79	81	82	76
1993	68	55	47	48	54	64	65	70	76	81	76	72
1994	64	56	48	48	53	63	67	71	79	80	82	77
1995	66	52	46	50	55	58	62	66	69	74	80	75
1996	63	60	52	50	55	59	66	69	78	82	81	75
1997	65	56	50	50	53	62	66	74	78	83	82	78
1998	67	58	48	50	53	60	63	66	71	74	79	71
1999	63	56	48	48	54	61	63	70	79	83	81	77
2000	69	58	50	51	54	59	68	72	79	80	81	75
2001	65	54	50	49	53	63	67	74	78	80	79	76
2002	67	57	48	49	55	61	68	70	77	82	80	79
2003	67	56	51	51	56	63	66	71	79	82	79	76

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Change in Average Simulated San Joaquin River Below Merced Confluence (Deg. F)
Alternative3 (2030) - No Action (2030)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Percent Change in Average Simulated San Joaquin River Below Merced Confluence (Deg. F)
From No Action (2030)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated San Joaquin River Below Merced Confluence (Deg. F)
No Action (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					52	56	63	68	73	78	77	70
1981	64	55	47	46	54	59	67	71	78	80	79	75
1982	65	55	47	45	52	57	59	66	72	77	78	72
1983	61	52	48	45	52	55	59	65	69	72	76	70
1984	61	54	48	48	52	61	64	73	77	81	79	75
1985	63	53	49	45	53	60	67	70	77	80	78	72
1986	64	52	45	48	53	58	62	67	75	80	78	72
1987	65	55	46	45	53	60	69	72	76	78	78	74
1988	68	53	48	47	55	63	66	69	75	81	79	74
1989	66	54	47	46	52	60	68	71	75	79	78	74
1990	66	56	46	47	50	60	67	69	75	81	80	75
1991	67	54	44	47	53	59	66	70	76	80	79	76
1992	68	55	47	45	54	62	68	74	77	79	80	74
1993	67	54	46	47	53	62	63	68	74	79	74	70
1994	63	55	47	47	51	61	65	69	77	78	80	75
1995	65	51	46	50	54	57	60	64	67	74	78	73
1996	61	58	51	49	54	58	64	67	76	80	79	73
1997	64	55	49	49	52	60	64	72	76	81	80	76
1998	65	57	47	49	52	59	61	64	69	76	77	70
1999	62	55	47	48	53	59	61	68	77	81	79	75
2000	67	57	49	50	53	57	66	70	76	78	79	73
2001	64	53	49	48	51	62	65	72	76	78	77	75
2002	66	56	47	48	54	60	66	68	75	80	78	77
2003	65	55	50	51	54	61	64	69	76	80	77	75

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Average Simulated San Joaquin River Below Merced Confluence (Deg. F)
Alternative4 (2030)

WY	October	November	December	January	February	March	April	May	June	July	August	September
1980					53	58	65	69	76	80	80	72
1981	66	56	48	47	55	61	69	73	81	83	81	77
1982	66	56	48	46	53	58	61	67	74	79	80	73
1983	62	52	48	46	53	57	61	67	71	74	78	71
1984	63	55	49	49	53	63	66	75	79	84	81	77
1985	65	54	49	45	54	61	70	72	79	83	80	74
1986	65	53	46	49	54	60	64	69	78	82	80	74
1987	66	56	46	46	54	61	71	74	78	80	80	75
1988	69	54	48	48	56	65	67	71	77	83	80	76
1989	68	55	48	47	54	61	70	73	77	81	80	75
1990	67	57	47	48	51	62	69	71	77	83	82	77
1991	69	55	45	47	55	61	67	72	78	82	81	77
1992	69	56	48	46	55	64	70	76	79	81	82	76
1993	68	55	47	48	54	64	65	70	76	81	77	73
1994	65	56	48	48	53	63	67	71	79	80	82	77
1995	66	52	46	50	55	58	62	66	69	76	81	75
1996	63	60	52	50	55	59	66	69	78	82	81	75
1997	65	56	50	50	53	62	66	74	78	83	82	78
1998	67	58	48	50	53	60	63	66	71	77	79	72
1999	63	56	48	48	54	61	63	70	79	83	81	77
2000	69	58	50	50	54	59	68	72	79	81	81	75
2001	65	54	50	49	53	63	67	74	78	80	79	76
2002	67	57	48	49	55	61	68	70	77	82	80	79
2003	67	56	51	51	56	63	66	71	79	82	79	76

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Change in Average Simulated San Joaquin River Below Merced Confluence (Deg. F)
Alternative4 (2030) - No Action (2030)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet

Percent Change in Average Simulated San Joaquin River Below Merced Confluence (Deg. F)
From No Action (2030)

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

Notes:

Summarized from From SJR5Q flow and temperature model

Simulation Period: Jan 1980 - Sep 2003

Year type as defined by the Restoration Year Type.

Key: Alt = Alternative, cfs = cubic feet per second, TAF = thousand acre-feet