

F3.3.16

Simulated Annual Groundwater Budgets

Table F3.3.16A Simulated Annual Groundwater Budget for Existing Conditions (acre-feet)

Hydrographic Area Number and Name	Current Conditions 2004						
	Net Inter-Basin Flow	Change in Storage	Constant Wells Head		ET and Springs Recharge	Stream Flow	
Goshute Valley							
178B Butte Valley (South)	-21,800	0	-200	-500	-8,800	31,100	0
179 Steptoe Valley	-22,600	2,500	-11,900	-2,100	-79,600	113,600	0
Total	-44,400	2,500	-12,100	-2,600	-88,400	144,700	0
Las Vegas							
212 Las Vegas Valley	-3,300	500	0	0	0	2,800	0
Total	-3,300	500	0	0	0	2,800	0
Meadow Valley Wash							
183 Lake Valley	-5,100	10,600	-13,600	0	-2,300	10,400	0
198 Dry Valley	3,500	300	-3,500	0	-1,900	1,600	0
199 Rose Valley	300	100	-400	0	-100	100	0
200 Eagle Valley	-800	100	-100	0	-200	1,100	0
201 Spring Valley	-6,800	100	0	0	-700	7,400	0
202 Patterson Valley	-9,700	6,000	-3,300	0	0	6,900	0
203 Panaca Valley	12,700	4,900	-9,300	0	-16,400	8,000	0
204 Clover Valley	-7,600	300	-200	0	-1,800	9,400	0
205 Lower Meadow Valley Wash	-500	800	-3,100	0	-13,000	15,700	0
Total	-14,000	23,200	-33,500	0	-36,400	60,600	0
Salt Lake Desert							
184 Spring Valley	-5,300	2,000	-5,600	0	-73,700	82,600	0
185 Tippet Valley	-1,600	0	0	-4,200	0	5,700	0
194 Pleasant Valley	-4,400	0	0	0	0	4,400	0
195 Snake Valley	49,500	3,000	-21,600	-31,900	-105,800	106,900	-100
196 Hamlin Valley	-21,500	600	0	0	-200	21,100	0
258 Fish Springs Flat	-2,300	0	0	2,200	0	100	0
Total	14,400	5,600	-27,200	-33,900	-179,700	220,800	-100
White River							
171 Coal Valley	-5,200	300	0	0	0	4,900	0
172 Garden Valley	-22,100	0	0	-2,200	0	24,300	0
174 Jakes Valley	-10,700	0	0	0	0	10,700	0
175 Long Valley	3,600	0	0	-13,500	-800	10,700	0
180 Cave Valley	-15,500	0	0	0	0	15,400	0
181 Dry Lake Valley	-17,500	100	0	0	0	17,300	0
182 Delamar Valley	-7,500	0	0	0	0	7,500	0
206 Kane Springs Valley	-4,000	0	0	0	0	4,000	0
207 White River Valley	32,000	3,400	-10,900	0	-65,600	41,100	0
208 Pahroc Valley	-5,700	100	0	0	0	5,500	0
209 Pahrnagat Valley	41,100	400	-2,800	-9,500	-21,800	6,100	-13,500
210 Coyote Spring Valley	-6,500	800	0	2,000	0	3,700	0
215 Black Mountains Area	12,100	1,200	-1,700	-7,400	-2,100	0	-2,000
216 Garnet Valley	100	700	-1,000	0	0	200	0
217 Hidden Valley (North)	-300	200	0	0	0	200	0
218 California Wash	5,700	400	0	0	-7,500	0	1,400
219 Muddy River Springs Area	39,600	700	-8,100	0	-2,100	100	-30,200
220 Lower Moapa Valley	7,800	100	-2,700	-6,700	-20,900	100	22,200
Total	47,000	8,400	-27,200	-37,300	-120,800	151,800	-22,100
Grand Total	-300	40,200	-100,000	-73,800	-425,300	580,700	-22,200

Notes: Model simulated conditions for 2004 (SNWA 2010b).

Table F3.3.16-1B Simulated Annual Groundwater Budget for Proposed Action (Project Only Model)

Simulated Groundwater Budgets (acre-ft/year)	Proposed Action				Proposed Action				Proposed Action						
	Net Inter-Basin Flow	Change in Storage	Full Build-Out Wells	ET and Springs	Stream Flow	Net Inter-Basin Flow	Change in Storage	Full Build-Out Wells	Head Springs	Stream Flow	Net Inter-Basin Flow	Change in Storage	Full Build-Out Wells	Head Springs	Stream Flow
Goshute Valley															
178B Butte Valley (South)	-21,800	0	0	-400	-8,900	-21,800	0	0	-400	-8,900	-21,800	0	0	-400	-8,900
179 Steptoe Valley	-22,700	1,000	-11,700	-2,100	-78,100	-23,100	800	-11,700	-2,100	-77,500	-23,900	1,100	-11,700	-2,100	-77,100
Total	-44,500	1,000	-11,700	-2,500	-87,000	-44,900	800	-11,700	-2,500	-86,400	-45,800	1,100	-11,700	-2,500	-86,000
Las Vegas															
212 Las Vegas Valley	-3,200	400	0	0	0	-3,100	400	0	0	0	-3,000	300	0	0	0
Total	-3,200	400	0	0	0	-3,100	400	0	0	0	-3,000	300	0	0	0
Meadow Valley Wash															
183 Lake Valley	-4,500	9,400	-13,400	0	-1,900	-6,000	9,500	-13,400	0	-500	-7,500	10,500	-13,400	0	0
198 Dry Valley	3,500	100	-3,500	0	-1,600	3,400	100	-3,500	0	-1,500	3,300	100	-3,500	0	-1,300
199 Rose Valley	400	0	-400	0	-100	400	0	-400	0	-100	400	0	-400	0	-100
200 Eagle Valley	-900	0	-100	0	-100	-900	0	-100	0	-100	-900	0	-100	0	0
201 Spring Valley	-6,800	100	0	0	-700	-6,900	100	0	0	-600	-7,000	200	0	0	-600
202 Patterson Valley	-10,400	6,300	-2,800	0	0	-10,300	6,200	-2,800	0	0	-9,900	5,800	-2,800	0	0
203 Panaca Valley	12,900	3,000	-9,300	0	-14,600	12,900	1,600	-9,300	0	-13,200	12,600	800	-9,300	0	-12,200
204 Clover Valley	-7,600	200	-200	0	-1,700	-7,600	200	-200	0	-1,700	-7,600	100	-200	0	-1,600
205 Lower Meadow Valley Wash	-700	600	-3,100	0	-12,600	-800	500	-3,100	0	-12,400	-1,000	400	-3,100	0	-12,000
Total	-14,100	19,700	-32,800	0	-33,300	-15,800	18,200	-32,800	0	-30,100	-17,600	17,900	-32,800	0	-27,800
Salt Lake Desert															
184 Spring Valley	-3,700	59,500	-100,300	0	-38,200	1,900	31,600	-100,300	0	-15,800	6,100	22,400	-100,300	0	-10,900
185 Tippet Valley	-1,700	100	0	-4,200	0	-2,300	500	0	-3,900	0	-2,800	500	0	-3,400	0
194 Pleasant Valley	-4,400	0	0	0	0	-4,400	0	0	0	0	-4,400	100	0	0	0
195 Snake Valley	49,100	1,000	-21,600	-31,800	-103,500	52,600	18,100	-72,300	-31,100	-74,100	53,000	11,000	-72,300	-30,000	-68,500
196 Hamlin Valley	-22,300	1,300	0	0	-100	-29,000	7,900	0	0	0	-31,200	10,000	0	0	0
258 Fish Springs Flat	-2,300	0	0	2,200	0	-2,300	0	0	2,200	0	-2,300	0	0	2,200	0
Total	14,700	61,900	-121,900	-33,800	-141,800	16,500	58,100	-172,600	-32,800	-89,900	18,400	44,000	-172,600	-31,200	-79,400
White River															
171 Coat Valley	-5,100	300	0	0	0	-5,200	300	0	0	0	-5,200	400	0	0	0
172 Garden Valley	-22,100	0	0	-2,200	0	-22,200	100	0	-2,200	0	-22,300	100	0	-2,200	0
174 Jakes Valley	-10,800	100	0	0	0	-10,800	100	0	0	0	-10,800	100	0	0	0
175 Long Valley	3,600	0	0	-13,500	-800	3,600	0	0	-13,400	-800	3,500	0	0	-13,400	-800
180 Cave Valley	-14,800	11,000	-11,600	0	0	-13,000	9,200	-11,600	0	0	-10,800	7,000	-11,600	0	0
181 Dry Lake Valley	-19,600	13,900	-11,600	0	0	-20,700	15,000	-11,600	0	0	-20,500	14,800	-11,600	0	0
182 Delamar Valley	-4,700	8,800	-11,600	0	0	-1,500	5,700	-11,600	0	0	700	3,400	-11,600	0	0
206 Kane Springs Valley	-4,100	100	0	0	0	-4,200	200	0	0	0	-4,200	200	0	0	0
207 White River Valley	-5,800	300	-10,900	0	-64,100	31,800	1,600	-10,900	0	-62,800	29,700	1,100	-10,900	0	-61,000
208 Pahroc Valley	40,300	600	-2,800	-9,300	-13,500	-6,100	600	0	0	0	-6,500	900	0	0	0
209 Pahrnagat Valley	-6,300	500	0	2,100	0	-6,400	500	0	2,200	0	-6,500	400	0	2,400	0
210 Coyote Spring Valley	12,300	900	-1,700	-7,400	-2,000	12,400	600	-1,700	-7,300	-1,900	12,500	400	-1,700	-7,300	-1,900
215 Black Mountains Area	100	500	-800	0	0	300	300	-800	0	0	400	200	-800	0	0
216 Garnet Valley	-300	200	0	0	0	-300	100	0	0	0	-200	100	0	0	0
217 Hidden Valley (North)	5,600	400	0	0	-7,500	5,500	400	0	0	-7,500	5,500	400	0	0	-7,400
218 California Wash	39,000	100	-8,100	0	-2,000	38,400	0	-8,100	0	-2,000	37,600	0	-8,100	0	-1,900
219 Muddy River Springs Area	7,900	100	-2,700	-6,600	-20,800	8,100	0	-2,700	-6,500	-20,300	8,100	0	-2,700	-6,500	-19,600
220 Lower Moapa Valley	47,000	40,000	-61,800	-36,900	-118,700	47,800	35,500	-61,800	-35,700	-116,500	48,100	30,200	-61,800	-34,700	-113,000
Grand Total	-100	123,000	-228,200	-73,200	-380,800	-100	300	-278,900	-71,000	-322,900	100	93,500	-278,900	-68,400	-20,800

Note: Recharge does not change and is not shown.

Source: SNWA 2010b.

Table F3.3.16-2B Simulated Annual Groundwater Budget for Alternative A (Reduced Pumping) Project Only Model)

Simulated Groundwater Budgets (acre-ft/year)	Alternative A						Alternative A						Alternative A						
	Net Inter-Basin Flow	Change in Storage	ET and Springs	Stream Flow	Change in Full Build-Out Wells	Head	Net Inter-Basin Flow	Change in Storage	ET and Springs	Stream Flow	Change in Full Build-Out Wells	Head	Net Inter-Basin Flow	Change in Storage	ET and Springs	Stream Flow	Change in Full Build-Out Wells	Head	
Goshute Valley																			
178B Bute Valley (South)	-21,800	0	-400	-8,900	0	0	-21,800	0	-400	-8,900	0	0	-21,800	0	-400	-8,900	0	0	
179 Steptoe Valley	-22,600	900	-2,100	-78,100	0	0	-23,000	700	-2,100	-77,500	0	0	-23,500	800	-2,100	-77,200	0	0	
Total	-44,400	900	-2,500	-87,000	0	0	-44,800	700	-2,500	-86,400	0	0	-45,400	800	-2,500	-86,100	0	0	
Las Vegas																			
212 Las Vegas Valley	-3,200	400	0	0	0	0	-3,100	400	0	0	0	0	-3,000	300	0	0	0	0	
Total	-3,200	400	0	0	0	0	-3,100	400	0	0	0	0	-3,000	300	0	0	0	0	
Meadow Valley Wash																			
183 Lake Valley	-4,300	9,200	0	-1,900	0	0	-5,000	8,600	-13,400	-600	0	0	-5,600	8,700	-13,400	0	0	0	
188 Dry Valley	3,500	100	-3,500	0	-1,600	0	3,400	100	-3,500	-1,500	0	0	3,300	100	-3,500	0	-1,300	0	
199 Rose Valley	400	0	-400	0	-100	0	400	0	-400	-100	0	0	400	0	-400	0	-100	0	
200 Eagle Valley	-900	0	-100	-100	0	0	-900	0	-100	-100	0	0	-900	0	-100	0	0	0	
201 Spring Valley	-6,800	100	0	-700	0	0	-6,900	100	0	-600	0	0	-7,000	200	0	-600	0	0	
202 Patterson Valley	-10,400	6,300	-2,800	0	0	0	-10,200	6,100	-2,800	0	0	0	-9,700	5,600	-2,800	0	0	0	
203 Panaca Valley	12,900	3,000	-9,300	-14,600	0	0	12,900	1,600	-9,300	-13,200	0	0	12,700	800	-9,300	0	-12,200	0	
204 Clover Valley	-7,600	200	-200	-1,700	0	0	-7,600	100	-200	-1,700	0	0	-7,600	100	-200	0	-1,600	0	
205 Lower Meadow Valley Wash	-500	500	-3,100	-12,600	0	0	-600	400	-3,100	-12,400	0	0	-700	200	-3,100	0	-12,200	0	
Total	-13,700	19,400	-32,800	-33,300	0	0	-14,500	17,000	-32,800	-30,200	0	0	-15,100	15,700	-32,800	0	-28,000	0	
Salt Lake Desert																			
184 Spring Valley	-3,900	39,100	0	-48,800	0	0	0	19,800	-69,000	-33,400	0	0	3,000	13,100	-69,000	0	-29,600	0	
185 Tippet Valley	-1,600	0	0	-4,200	0	0	-1,800	200	0	-4,100	0	0	-2,000	200	0	-3,900	0	0	
194 Pleasant Valley	-4,400	0	0	0	0	0	-4,400	0	0	0	0	0	-4,400	0	0	0	0	0	
195 Snake Valley	49,200	1,000	-31,800	-103,500	-100	0	50,700	10,700	-57,600	-31,300	-79,300	0	50,500	5,800	-57,600	-30,700	-74,800	0	
196 Hamlin Valley	-22,200	1,300	0	-100	0	0	-26,200	5,100	0	0	0	0	-27,500	6,400	0	0	0	0	
258 Fish Springs Flat	-2,300	0	0	2,200	0	0	-2,300	0	0	2,200	0	0	-2,300	0	0	2,200	0	0	
Total	14,800	41,400	-90,600	-152,400	-100	0	16,000	35,800	-126,600	-33,200	-112,700	0	17,300	25,500	-126,600	-32,400	-104,400	0	
White River																			
171 Coal Valley	-5,100	200	0	0	0	0	-5,100	200	0	0	0	0	-5,200	300	0	0	0	0	
172 Garden Valley	-22,100	0	-2,200	0	0	0	-22,200	100	0	-2,200	0	0	-22,200	100	0	-2,200	0	0	
174 Jakes Valley	-10,800	100	0	0	0	0	-10,800	100	0	0	0	0	-10,800	100	0	0	0	0	
175 Long Valley	3,600	0	-13,500	-800	0	0	3,600	0	-13,400	-800	0	0	3,500	0	-13,400	-800	0	0	
180 Cave Valley	-15,300	4,600	-4,700	0	0	0	-14,800	4,000	-4,700	0	0	0	-14,100	3,400	-4,700	0	0	0	
181 Dry Lake Valley	-17,800	12,100	-11,600	0	0	0	-17,500	11,800	-11,600	0	0	0	-16,700	11,000	-11,600	0	0	0	
182 Delamar Valley	-7,000	2,000	-2,500	0	0	0	-6,600	1,600	-2,500	0	0	0	-6,300	1,300	-2,500	0	0	0	
206 Kane Springs Valley	-4,000	0	0	0	0	0	-4,100	100	0	0	0	0	-4,100	100	0	0	0	0	
207 White River Valley	31,900	2,100	-10,900	-64,200	0	0	31,500	1,400	-10,900	-63,100	0	0	30,800	900	-10,900	-61,800	0	0	
208 Pahroc Valley	-5,700	200	0	0	0	0	-6,000	400	0	0	0	0	-6,200	700	0	0	0	0	
209 Pahranagat Valley	40,800	300	-2,800	-9,400	-13,500	0	40,300	300	-2,800	-9,200	-13,600	0	39,600	300	-2,800	-8,900	-21,300	-13,100	
210 Coyote Spring Valley	-6,200	500	0	2,100	0	0	-6,200	300	0	2,100	0	0	-6,200	200	0	2,200	0	0	
215 Black Mountains Area	12,300	900	-1,700	-7,400	-2,000	-2,100	12,400	600	-1,700	-7,300	-2,000	-2,000	12,500	400	-1,700	-7,300	-1,900	-2,000	
216 Garnet Valley	100	500	-800	0	0	0	300	300	-800	0	0	0	400	200	-800	0	0	0	
217 Hidden Valley (North)	-300	200	0	0	0	0	-300	100	0	0	0	0	-200	100	0	0	0	0	
218 California Wash	5,600	400	0	-7,500	1,400	0	5,500	400	0	-7,500	1,500	0	5,500	400	0	-7,400	1,500	0	
219 Muddy River Springs Area	39,000	100	-8,100	-2,000	-29,100	0	38,400	0	-8,100	-2,000	-28,500	0	37,800	0	-8,100	-2,000	-27,900	0	
220 Lower Moapa Valley	7,900	100	-2,700	-6,600	-20,800	22,000	8,000	0	-2,700	-6,500	-20,400	21,300	8,100	0	-2,700	-6,500	-19,800	20,700	
Total	46,900	24,300	-45,800	-37,000	-116,900	-21,300	46,400	21,700	-45,800	-36,500	-117,300	-21,300	46,200	19,500	-45,800	-36,100	-115,000	-20,800	
Grand Total	400	86,400	-180,900	-73,300	-397,600	-21,400	0	75,600	-216,900	-72,200	-346,600	-21,300	0	61,800	-216,900	-71,000	-333,500	-20,800	

Note: Recharge does not change and is not shown.

Source: SNWA 2010b.

Table F3.3.16-3B Simulated Annual Groundwater Budget for Alternative B (Points of Diversion) (Project Only Model)

Simulated Groundwater Budgets (acre-ft/year)	Alternative B				Alternative B				Alternative B							
	Net Inter-Basin Flow	Change in Full Storage	ET and Springs	Stream Flow	Net Inter-Basin Flow	Change in Full Storage	Wells	Head	Springs	Stream Flow	Net Inter-Basin Flow	Change in Full Storage	Wells	Head	Springs	Stream Flow
Goshute Valley																
178B Butte Valley (South)	-21,800	0	-400	-8,900	0	-21,800	0	-400	-8,900	0	-21,900	0	-400	-8,900	0	
179 Steptoe Valley	-23,300	1,600	-11,700	-2,100	-78,100	-23,900	1,500	-11,700	-2,100	-77,500	-24,700	1,800	-11,700	-2,100	-77,000	
Total	-45,100	1,600	-11,700	-2,500	-87,000	-45,700	1,500	-11,700	-2,500	-86,400	-46,600	1,800	-11,700	-2,500	-85,900	
Las Vegas																
212 Las Vegas Valley	-3,200	400	0	0	0	-3,100	400	0	0	0	-3,000	300	0	0	0	
Total	-3,200	400	0	0	0	-3,100	400	0	0	0	-3,000	300	0	0	0	
Meadow Valley Wash																
183 Lake Valley	-8,400	12,800	-13,400	0	-1,400	-8,600	11,700	-13,400	0	0	-8,900	11,900	-13,400	0	0	
198 Dry Valley	3,500	100	-3,500	0	-1,600	3,400	100	-3,500	0	-1,500	3,300	100	-3,500	0	-1,300	
199 Rose Valley	400	0	-400	0	-100	400	0	-400	0	-100	400	0	-400	0	-100	
200 Eagle Valley	-900	0	-100	0	-100	-900	0	-100	0	-100	-900	0	-100	0	0	
201 Spring Valley	-6,800	100	0	-700	0	-6,900	100	0	-600	0	-7,000	200	0	-600	0	
202 Patterson Valley	-10,400	6,300	-2,800	0	0	-10,300	6,200	-2,800	0	0	-10,000	5,900	-2,800	0	0	
203 Panaca Valley	12,800	3,000	-9,300	0	-14,600	12,800	1,600	-9,300	0	-13,200	12,600	900	-9,300	0	-12,100	
204 Clover Valley	-7,600	200	-200	0	-1,700	-7,600	200	-200	0	-1,700	-7,600	100	-200	0	-1,600	
205 Lower Meadow Valley Wash	-700	600	-3,100	0	-12,600	-800	500	-3,100	0	-12,400	-1,100	400	-3,100	0	-12,000	
Total	-18,100	23,100	-32,800	0	-32,800	-18,500	20,400	-32,800	0	-29,600	-19,200	19,500	-32,800	0	-27,700	
Salt Lake Desert																
184 Spring Valley	1,100	54,600	-93,700	0	-44,600	2,900	31,700	-93,700	0	-23,500	4,900	24,900	-93,700	0	-18,700	
185 Tippet Valley	-1,600	0	-4,200	0	0	-1,600	0	-4,200	0	0	-1,600	0	-4,100	0	0	
194 Pleasant Valley	-4,400	0	0	0	0	-4,400	0	0	0	0	-4,400	0	0	0	0	
195 Shake Valley	48,900	1,200	-21,600	-103,400	-100	54,400	19,400	-65,300	-31,300	-84,000	56,000	10,000	-65,100	-30,400	-77,400	
196 Hamlin Valley	-22,800	1,900	0	-100	0	-28,800	7,700	0	0	0	-30,800	9,700	0	0	0	
258 Fish Springs Flat	-2,300	0	2,200	0	0	-2,300	0	2,200	0	0	-2,300	0	2,200	0	0	
Total	16,900	57,700	-115,300	-148,100	-100	20,200	58,800	-159,000	-33,300	-107,500	21,800	44,600	-158,800	-32,300	-96,100	
White River																
171 Coal Valley	-5,200	300	0	0	0	-5,200	300	0	0	0	-5,300	400	0	0	0	
172 Garden Valley	-22,200	100	-2,200	0	0	-22,300	200	-2,200	0	0	-22,400	200	-2,200	0	0	
174 Jakes Valley	-10,800	100	0	0	0	-10,800	100	0	0	0	-10,800	200	0	0	0	
175 Long Valley	3,600	0	-13,500	-800	0	3,600	0	-13,400	-800	0	3,500	0	-13,400	-800	0	
180 Cave Valley	-11,200	7,400	-11,600	0	0	-10,100	6,300	-11,600	0	0	-8,900	5,000	-11,600	0	0	
181 Dry Lake Valley	-20,300	14,600	-11,600	0	0	-20,800	15,100	-11,600	0	0	-20,500	14,800	-11,600	0	0	
182 Delamar Valley	-4,400	8,500	-11,600	0	0	-1,700	5,800	-11,600	0	0	400	3,700	-11,600	0	0	
206 Kane Springs Valley	-4,100	100	0	0	0	-4,200	200	0	0	0	-4,200	200	0	0	0	
207 White River Valley	29,400	3,500	-10,900	0	-63,100	28,600	2,000	-10,900	0	-60,800	27,500	1,200	-10,900	0	-58,800	
208 Pahroc Valley	-5,900	300	0	0	0	-6,200	700	0	0	0	-6,500	1,000	0	0	0	
209 Pahranaagat Valley	40,200	600	-2,800	-13,500	0	38,600	800	-2,800	-8,500	-21,200	36,900	800	-2,800	-7,700	-20,300	
210 Coyote Spring Valley	-6,300	500	2,100	0	0	-6,500	500	2,200	0	0	-6,500	400	2,400	0	0	
215 Black Mountains Area	12,300	900	-1,700	-2,000	-2,100	12,400	600	-1,700	-7,300	-1,900	12,500	400	-1,700	-7,300	-1,900	
216 Garnet Valley	100	500	-800	0	0	300	300	-800	0	0	400	200	-800	0	0	
217 Hidden Valley (North)	-300	200	0	0	0	-300	100	0	0	0	-200	100	0	0	0	
218 California Wash	5,600	400	0	-7,500	1,400	5,500	400	0	0	-7,500	5,500	400	0	0	-7,400	
219 Muddy River Springs Area	39,000	100	-8,100	-2,000	-29,100	38,400	0	-8,100	0	-2,000	37,600	0	-8,100	0	-1,900	
220 Lower Moapa Valley	7,900	100	-2,700	-6,600	-20,800	8,100	0	-2,700	-6,500	-20,300	8,100	0	-2,700	-6,500	-19,600	
Total	47,400	36,200	-61,800	-117,700	-21,300	47,400	33,400	-61,800	-35,700	-114,500	47,100	29,000	-61,800	-34,700	-110,700	
Grand Total	-100	121,000	-221,600	-73,200	-385,600	-100	114,500	-265,300	-71,500	-338,000	100	95,200	-265,100	-69,500	-320,400	

Note: Recharge does not change and is not shown.
Source: SNWA 2010b.

Table F3.3.16-4B Simulated Annual Groundwater Budget for Alternative C (Intermittent Pumping) (Project Only Model)

Simulated Groundwater Budgets (acre-ft/year)	Alternative C					Alternative C					Alternative C				
	Net Inter-Basin Flow	Change/Fill Storage	Build-Out Wells	ET and Springs	Stream Flow	Net Inter-Basin Flow	Change/Fill Storage	Build-Out Wells	ET and Springs	Stream Flow	Net Inter-Basin Flow	Change/Fill Storage	Build-Out Wells	ET and Springs	Stream Flow
Goshute Valley															
178B Butte Valley (South)	-21,800	0	-400	-8,900	0	-21,800	0	-400	-8,900	0	-21,900	0	-400	-8,900	0
179 Steptoe Valley	-22,600	900	-11,700	-2,100	-78,100	-22,800	500	-11,700	-2,100	-77,500	-22,900	400	-11,700	-2,100	-77,300
Total	-44,400	900	-11,700	-2,500	-87,000	-44,600	500	-11,700	-2,500	-86,400	-44,800	400	-11,700	-2,500	-86,200
Las Vegas															
212 Las Vegas Valley	-3,200	400	0	0	0	-3,100	400	0	0	0	-3,000	300	0	0	0
Total	-3,200	400	0	0	0	-3,100	400	0	0	0	-3,000	300	0	0	0
Meadow Valley Wash															
183 Lake Valley	-4,300	9,200	-13,400	-1,900	0	-4,200	8,000	-13,400	-800	0	-3,900	6,900	-13,400	0	0
198 Dry Valley	3,500	100	-3,500	-1,600	0	3,400	100	-3,500	-1,500	0	3,300	100	-3,500	-1,300	0
199 Rose Valley	400	0	-400	-100	0	400	0	-400	-100	0	400	0	-400	-100	0
200 Eagle Valley	-900	0	-100	-100	0	-900	0	-100	-100	0	-900	0	-100	0	0
201 Spring Valley	-6,800	100	0	-700	0	-6,900	100	0	-600	0	-7,000	200	0	-600	0
202 Patterson Valley	-10,400	6,300	-2,800	0	0	-10,200	6,100	-2,800	0	0	-9,600	5,500	-2,800	0	0
203 Panaca Valley	12,900	3,000	-9,300	-14,600	-100	12,900	1,500	-9,300	-13,200	0	12,700	700	-9,300	-12,200	0
204 Clover Valley	-7,600	200	-200	-1,700	0	-7,600	100	-200	-1,700	0	-7,600	100	-200	-1,600	0
205 Lower Meadow Valley Wash	-500	500	-3,100	-12,600	0	-600	300	-3,100	-12,400	0	-700	200	-3,100	-12,200	0
Total	-13,700	19,400	-32,800	-33,300	-100	-13,700	16,200	-32,800	-30,400	0	-13,300	13,700	-32,800	-28,000	0
Salt Lake Desert															
184 Spring Valley	-3,900	39,100	-69,000	-48,800	0	-2,400	31,700	-69,000	-42,800	0	-2,300	24,900	-12,000	-43,300	0
185 Tippet Valley	-1,600	0	-4,200	0	0	-1,700	100	-4,100	0	0	-1,800	100	-4,000	0	0
194 Pleasant Valley	-4,400	0	0	0	0	-4,400	0	0	-4,400	0	-4,400	0	0	0	0
195 Shake Valley	49,200	1,000	-21,600	-103,500	-100	49,400	20,500	-57,600	-87,500	0	48,400	-15,400	-23,600	-31,300	-84,900
196 Hamlin Valley	-22,200	1,300	0	-100	0	-23,400	2,300	0	0	0	-22,600	1,500	0	0	0
258 Fish Springs Flat	-2,300	0	2,200	0	0	-2,300	0	2,200	0	0	-2,300	0	2,200	0	0
Total	14,800	41,400	-90,600	-152,400	-100	15,200	54,600	-126,600	-130,300	0	15,000	-38,700	-35,600	-33,100	-128,200
White River															
177 Coal Valley	-5,100	200	0	0	0	-5,100	200	0	0	0	-5,100	200	0	0	0
172 Garden Valley	-22,100	0	-2,200	0	0	-22,200	100	-2,200	0	0	-22,200	100	-2,200	0	0
174 Jakes Valley	-10,800	100	0	0	0	-10,800	100	0	0	0	-10,800	100	0	0	0
175 Long Valley	3,600	0	-13,500	-800	0	3,600	0	-13,400	-800	0	3,500	0	-13,400	-800	0
180 Cave Valley	-15,300	4,600	-4,700	0	0	-15,100	4,300	-4,700	0	0	-14,700	300	-1,000	0	0
181 Dry Lake Valley	-17,800	12,100	-11,600	0	0	-17,800	12,100	-11,600	0	0	-17,300	3,600	-3,500	0	0
182 Delamar Valley	-7,000	2,000	-2,500	0	0	-6,500	1,500	-2,500	0	0	-6,100	1,100	-2,500	0	0
206 Kane Springs Valley	-4,000	0	0	-64,200	0	-4,100	1,400	-10,900	-63,200	0	-4,100	700	-10,900	0	0
207 White River Valley	31,900	2,100	-10,900	0	0	31,700	1,400	-10,900	0	0	31,200	100	-10,900	0	0
208 Pahroc Valley	-5,700	200	0	0	0	-5,900	400	0	0	0	-6,000	500	0	0	0
209 Pahranaagat Valley	40,800	300	-2,800	-21,600	-13,500	40,300	300	-2,800	-21,500	-13,600	39,700	200	-2,800	-21,300	-13,100
210 Coyote Spring Valley	-6,200	500	2,100	0	0	-6,200	300	2,100	0	0	-6,100	200	2,200	0	0
215 Black Mountains Area	12,300	900	-1,700	-2,000	-2,100	12,400	600	-1,700	-2,000	-2,000	12,500	400	-1,700	-2,300	-1,900
216 Garnet Valley	100	500	-800	0	0	300	300	-800	0	0	400	200	-800	0	0
217 Hidden Valley (North)	-300	200	0	0	0	-300	100	0	0	0	-200	100	0	0	0
218 California Wash	5,600	400	0	-7,500	1,400	5,500	400	0	-7,500	1,500	5,500	400	0	-7,400	1,500
219 Muddy River Springs Area	39,000	100	-8,100	-2,000	-29,100	38,400	0	-8,100	-2,000	-28,500	37,800	0	-8,100	-2,000	-27,900
220 Lower Moapa Valley	7,900	100	-2,700	-6,600	22,000	8,000	0	-2,700	-6,500	-20,400	8,100	0	-2,700	-6,500	-19,800
Total	46,900	24,300	-45,800	-118,900	-21,300	46,200	22,200	-45,800	-117,400	-21,300	45,100	8,200	-34,000	-36,100	-115,300
Grand Total	400	86,400	-180,900	-73,300	-21,400	0	93,900	-216,900	-72,500	-364,500	0	-16,100	-114,100	-71,700	-357,700

Note: Recharge does not change and is not shown.

Source: SNWA 2010b.

Table F3.3.16-5B Simulated Annual Groundwater Budget for Alternative D (LCCRDA) (Project Only Model)

Simulated Groundwater Budgets (acre-ft/year)	Alternative D					Alternative D					Alternative D				
	Net Inter-Basin Flow	Change/Fill Storage	Wells	ET and Springs	Stream Flow	Net Inter-Basin Flow	Change/Fill Storage	Wells	ET and Springs	Stream Flow	Net Inter-Basin Flow	Change/Fill Storage	Wells	ET and Springs	Stream Flow
Goshute Valley															
178B Butte Valley (South)	-21,800	0	-400	-8,900	0	-21,800	0	-400	-8,900	0	-21,900	0	-400	-8,900	0
179 Steptoe Valley	-22,600	1,000	-11,700	-78,300	0	-22,900	600	-11,700	-77,700	0	-23,300	800	-11,700	-77,500	0
Total	-44,400	1,000	-11,700	-87,200	0	-44,700	600	-11,700	-86,600	0	-45,200	800	-11,700	-86,400	0
Las Vegas															
212 Las Vegas Valley	-3,200	400	0	0	0	-3,100	400	0	0	0	-3,000	300	0	0	0
Total	-3,200	400	0	0	0	-3,100	400	0	0	0	-3,000	300	0	0	0
Meadow Valley Wash															
183 Lake Valley	-6,600	11,500	-13,400	-1,800	0	-9,600	12,600	-13,400	-100	0	-9,700	12,700	-13,400	0	0
198 Dry Valley	3,500	100	-3,500	-1,700	0	3,400	100	-3,500	-1,500	0	3,300	100	-3,500	0	-1,300
199 Rose Valley	400	0	-400	-100	0	400	0	-400	-100	0	400	0	-400	0	-100
200 Eagle Valley	-800	0	-100	-100	0	-900	0	-100	-100	0	-900	0	-100	0	0
201 Spring Valley	-6,900	100	0	-700	0	-7,100	300	0	-600	0	-7,200	400	0	-600	0
202 Patterson Valley	-10,400	6,300	-2,800	0	0	-10,500	6,400	-2,800	0	0	-10,400	6,200	-2,800	0	0
203 Panaca Valley	12,800	3,200	-9,300	-14,800	0	12,900	1,600	-9,300	-13,300	0	12,700	800	-9,300	0	-12,200
204 Clover Valley	-7,600	200	-200	-1,700	0	-7,600	200	-200	-1,700	0	-7,600	100	-200	0	-1,600
205 Lower Meadow Valley Wash	-500	600	-3,100	-12,700	0	-600	400	-3,100	-12,400	0	-700	300	-3,100	0	-12,200
Total	-16,100	22,000	-32,800	-33,600	0	-19,600	21,600	-32,800	-29,800	0	-20,100	20,600	-32,800	0	-28,000
Salt Lake Desert															
184 Spring Valley	5,300	31,900	-50,400	-69,400	0	20,200	22,600	-69,000	-56,500	0	24,400	10,800	-69,000	0	-49,100
185 Tippet Valley	-1,600	0	-4,200	0	0	-1,600	0	-4,200	0	0	-1,600	0	-4,200	0	0
194 Pleasant Valley	-4,400	0	0	0	0	-4,400	0	0	-4,400	0	-4,400	0	0	0	0
195 Shake Valley	48,600	1,500	-21,600	-103,400	-100	42,900	2,000	-21,600	-98,600	0	37,600	2,500	-21,600	-93,900	0
196 Hamlin Valley	-28,400	7,400	0	-100	0	-33,700	12,600	0	0	0	-31,300	10,100	0	0	0
258 Fish Springs Flat	-2,300	0	2,200	0	0	-2,300	0	2,200	0	0	-2,300	0	2,200	0	0
Total	17,200	40,800	-72,000	-172,900	-100	21,100	37,200	-90,600	-155,100	0	22,400	23,400	-90,600	-143,000	0
White River															
171 Coal Valley	-5,100	200	0	0	0	-5,100	200	0	0	0	-5,200	300	0	0	0
172 Garden Valley	-22,100	0	-2,200	0	0	-22,200	0	-2,200	0	0	-22,300	100	-2,200	0	0
174 Jakes Valley	-10,800	100	0	0	0	-10,800	100	0	0	0	-10,800	100	0	0	0
175 Long Valley	3,600	0	-13,500	-800	0	3,600	0	-13,400	-800	0	3,500	0	-13,400	-800	0
180 Cave Valley	-15,400	4,700	-4,700	0	0	-15,000	4,200	-4,700	0	0	-14,400	3,700	-4,700	0	0
181 Dry Lake Valley	-17,800	12,100	-11,600	0	0	-17,700	12,000	-11,600	0	0	-16,900	11,200	-11,600	0	0
182 Delamar Valley	-7,100	2,100	-2,500	0	0	-6,600	1,700	-2,500	0	0	-6,300	1,300	-2,500	0	0
206 Kane Springs Valley	-4,000	0	0	0	0	-4,100	1,500	-10,900	-63,300	0	-4,100	100	0	0	0
207 White River Valley	31,900	2,200	-10,900	-64,300	0	31,500	1,500	-10,900	-63,300	0	30,700	900	-10,900	0	-61,900
208 Pahroc Valley	-5,700	200	0	0	0	-6,000	400	0	0	0	-6,200	700	0	0	0
209 Pahranaagat Valley	40,800	300	-2,800	-21,600	-13,500	40,300	300	-2,800	-21,500	-13,600	39,700	300	-2,800	-21,300	-13,100
210 Coyote Spring Valley	-6,300	500	2,000	0	0	-6,200	300	2,100	0	0	-6,200	200	2,200	0	0
215 Black Mountains Area	12,200	1,000	-1,700	-7,400	-2,100	12,400	600	-1,700	-7,400	-2,000	12,500	400	-1,700	-7,300	-2,000
216 Garnet Valley	100	500	-800	0	0	200	400	-800	0	0	400	200	-800	0	0
217 Hidden Valley (North)	-300	200	0	0	0	-300	100	0	0	0	-200	100	0	0	0
218 California Wash	5,600	400	0	-7,500	1,400	5,500	400	0	-7,500	1,500	5,500	400	0	-7,400	1,500
219 Muddy River Springs Area	39,100	100	-8,100	-2,000	-29,200	38,500	0	-8,100	-2,000	-28,500	37,800	0	-8,100	-2,000	-27,900
220 Lower Moapa Valley	7,900	100	-2,700	-6,600	22,000	8,000	0	-2,700	-6,500	-20,400	8,100	0	-2,700	-6,500	-19,800
Total	46,600	24,700	-45,800	-37,100	-119,100	46,000	22,300	-45,800	-36,600	-117,500	45,600	20,000	-45,800	-36,100	-115,100
Grand Total	100	86,900	-162,300	-73,400	-412,800	-300	82,100	-180,900	-72,800	-389,000	-300	65,100	-180,900	-72,100	-372,500

Note: Recharge does not change and is not shown.
Source: SNWA 2010b.

Table F3.3.16-6B Simulated Annual Groundwater Budget for Alternative E (Spring, Cave, Dry Lake, Delamar Only) (Project Only Model)

Simulated Groundwater Budgets (acre-ft/year)	Alternative E				Alternative E				Alternative E								
	Net Inter-Basin Flow	Change in Full Storage	ET and Springs	Stream Flow	Net Inter-Basin Flow	Change in Full Storage	ET and Springs	Stream Flow	Net Inter-Basin Flow	Change in Full Storage	ET and Springs	Stream Flow	Net Inter-Basin Flow	Change in Full Storage	ET and Springs	Stream Flow	
Goshute Valley																	
178B Butte Valley (South)	-21,800	0	-400	-8,900	0	-21,800	0	-400	-8,900	0	-21,800	0	-400	-8,900	0	-21,900	0
179 Steptoe Valley	-22,600	900	-11,700	-2,100	-78,100	-23,000	700	-11,700	-2,100	-77,500	-23,500	800	-11,700	-2,100	-77,200	-23,500	800
Total	-44,400	900	-11,700	-2,500	-87,000	-44,800	700	-11,700	-2,500	-86,400	-45,400	800	-11,700	-2,500	-86,100	-45,400	800
Las Vegas																	
212 Las Vegas Valley	-3,200	400	0	0	0	-3,100	400	0	0	0	-3,000	300	0	0	0	-3,000	300
Total	-3,200	400	0	0	0	-3,100	400	0	0	0	-3,000	300	0	0	0	-3,000	300
Meadow Valley Wash																	
183 Lake Valley	-4,300	9,200	-13,400	0	-1,900	-4,900	8,600	-13,400	0	-600	-5,500	8,500	-13,400	0	0	-5,500	8,500
198 Dry Valley	3,500	100	-3,500	0	-1,600	3,400	100	-3,500	0	-1,500	3,300	100	-3,500	0	-1,300	3,300	100
199 Rose Valley	400	0	-400	0	-100	400	0	-400	0	-100	400	0	-400	0	-100	400	0
200 Eagle Valley	-900	0	-100	0	-100	-900	0	-100	0	-100	-900	0	-100	0	-900	-900	0
201 Spring Valley	-6,800	100	0	-700	0	-6,900	100	0	-600	0	-7,000	200	0	-600	0	-7,000	200
202 Patterson Valley	-10,400	6,300	-2,800	0	0	-10,200	6,100	-2,800	0	0	-9,700	5,600	-2,800	0	0	-9,700	5,600
203 Panaca Valley	12,900	3,000	-9,300	0	-14,600	12,900	1,600	-9,300	0	-13,200	12,700	800	-9,300	0	-12,200	12,700	800
204 Clover Valley	-7,600	200	-200	0	-1,700	-7,600	100	-200	0	-1,700	-7,600	100	-200	0	-1,600	-7,600	100
205 Lower Meadow Valley Wash	-500	500	-3,100	0	-12,600	-600	400	-3,100	0	-12,400	-700	200	-3,100	0	-12,200	-700	200
Total	-13,700	19,400	-32,800	0	-33,300	-14,400	17,000	-32,800	0	-30,200	-15,000	15,500	-32,800	0	-28,000	-15,000	15,500
Salt Lake Desert																	
184 Spring Valley	-3,900	39,100	-69,000	0	-48,800	300	19,500	-69,000	0	-33,400	3,800	12,300	-69,000	0	-29,700	3,800	12,300
185 Tiptop Valley	-1,600	0	-4,200	0	0	-1,800	200	-4,100	0	0	-2,000	200	-4,100	0	-3,900	-2,000	200
194 Pleasant Valley	-4,400	0	0	0	0	-4,400	0	0	0	0	-4,400	0	0	0	0	-4,400	0
195 Shake Valley	49,200	1,000	-21,600	-103,500	-100	47,800	900	-21,600	-31,800	-102,000	45,600	800	-21,600	-31,700	-99,800	45,600	800
196 Hamlin Valley	-22,200	1,300	0	-100	0	-23,700	2,600	0	0	0	-23,700	2,600	0	0	-23,700	2,600	0
258 Fish Springs Flat	-2,300	0	2,200	0	0	-2,300	0	2,200	0	0	-2,300	0	2,200	0	0	-2,300	0
Total	14,800	41,400	-90,600	-152,400	-100	15,900	23,200	-90,600	-33,700	-135,400	17,000	15,900	-90,600	-33,400	-129,500	17,000	15,900
White River																	
177 Coal Valley	-5,100	200	0	0	0	-5,100	200	0	0	0	-5,200	300	0	0	-5,200	300	0
172 Garden Valley	-22,100	0	-2,200	0	0	-22,200	100	-2,200	0	0	-22,200	100	-2,200	0	-22,200	100	-2,200
174 Jakes Valley	-10,800	100	0	0	0	-10,800	100	0	0	0	-10,800	100	0	0	-10,800	100	0
175 Long Valley	3,600	0	-13,500	-800	0	3,600	0	-13,400	-800	0	3,500	0	-13,400	-800	3,500	0	-13,400
180 Cave Valley	-15,300	4,600	-4,700	0	0	-14,800	4,000	-4,700	0	0	-14,100	3,300	-4,700	0	-13,400	3,300	-4,700
181 Dry Lake Valley	-17,800	12,100	-11,600	0	0	-17,500	11,800	-11,600	0	0	-16,700	11,000	-11,600	0	-16,700	11,000	-11,600
182 Delamar Valley	-7,000	2,000	-2,500	0	0	-6,600	1,600	-2,500	0	0	-6,300	1,300	-2,500	0	-6,300	1,300	-2,500
206 Kane Springs Valley	-4,000	0	0	0	0	-4,100	0	0	0	0	-4,100	0	0	0	-4,100	0	0
207 White River Valley	31,900	2,100	-10,900	-64,200	0	31,500	1,400	-10,900	-63,100	0	30,800	900	-10,900	-61,800	30,800	900	-10,900
208 Pahroc Valley	-5,700	200	0	0	0	-6,000	400	0	0	0	-6,200	700	0	0	-6,200	700	0
209 Pahranaagat Valley	40,800	300	-2,800	-9,400	-13,500	40,300	300	-2,800	-9,200	-21,500	39,600	300	-2,800	-9,000	39,600	300	-2,800
210 Coyote Spring Valley	-6,200	500	0	0	0	-6,200	300	0	2,100	0	-6,200	200	0	2,200	-6,200	200	0
215 Black Mountains Area	12,300	900	-1,700	-7,400	-2,000	12,400	600	-1,700	-7,300	-2,000	12,500	400	-1,700	-7,300	12,500	400	-1,700
216 Garnet Valley	100	500	-800	0	0	300	300	-800	0	0	400	200	-800	0	400	200	-800
217 Hidden Valley (North)	-300	200	0	0	0	-300	100	0	0	0	-200	100	0	0	-200	100	0
218 California Wash	5,600	400	0	-7,500	1,400	5,500	400	0	-7,500	1,500	5,500	400	0	-7,400	5,500	400	0
219 Muddy River Springs Area	39,000	100	-8,100	-2,000	-29,100	38,400	0	-8,100	-2,000	-28,500	37,800	0	-8,100	-2,000	37,800	0	-8,100
220 Lower Moapa Valley	7,900	100	-2,700	-6,600	22,000	8,000	0	-2,700	-6,500	-20,400	21,300	8,100	-2,700	-6,500	21,300	8,100	-2,700
Total	46,900	24,300	-45,800	-37,000	-118,900	46,400	21,700	-45,800	-36,500	-117,300	46,200	19,400	-45,800	-36,100	-115,000	46,200	19,400
Grand Total	400	86,400	-180,900	-73,300	-391,600	0	63,000	-180,900	-72,700	-369,300	-200	51,900	-180,900	-72,000	-358,600	-200	51,900

Note: Recharge does not change and is not shown.
Source: SNWA 2010b.

Table F3.3.16-7B Simulated Annual Groundwater Components for No Action

Simulated Groundwater Budgets (acre-ft/year)	No Action				No Action				No Action			
	Net Inter-Basin Flow	Change at Full Build-Out	ET and Springs	Stream Flow	Net Inter-Basin Flow	Change at Full Build-Out	ET and Springs	Stream Flow	Net Inter-Basin Flow	Change at Full Build-Out	ET and Springs	Stream Flow
Goshute Valley												
178B Butte Valley (South)	-21,800	0	-400	-8,900	-21,800	0	-400	-8,900	-21,800	0	-400	-8,900
179 Stepiet Valley	-22,500	800	-2,100	-78,100	-22,600	300	-2,100	-77,600	-22,700	200	-2,100	-77,400
Total	-44,300	800	-2,500	-87,000	-44,400	300	-2,500	-86,500	-44,600	200	-2,500	-86,300
Las Vegas												
212 Las Vegas Valley	-3,200	400	0	0	-3,100	400	0	0	-3,000	200	0	0
Total	-3,200	400	0	0	-3,100	400	0	0	-3,000	200	0	0
Meadow Valley Wash												
183 Lake Valley	-3,900	8,900	-13,400	-1,900	-3,300	7,300	-13,400	-1,000	-2,600	5,600	-13,400	0
198 Dry Valley	3,500	100	-3,500	-1,600	3,400	100	-3,500	-1,500	3,300	100	-3,500	0
199 Rose Valley	400	0	-400	-100	400	0	-400	-100	400	0	-400	0
200 Eagle Valley	-900	0	-100	-100	-900	0	-100	-100	-900	0	-100	0
201 Spring Valley	-6,800	100	0	-700	-6,900	100	0	-600	-7,000	200	0	-600
202 Patterson Valley	-10,400	6,300	-2,800	0	-10,100	6,000	-2,800	0	-9,400	5,300	-2,800	0
203 Panaca Valley	12,900	3,000	-9,300	-14,600	13,000	1,500	-9,300	-13,200	12,800	700	-9,300	0
204 Clover Valley	-7,600	200	-200	-1,700	-7,600	100	-200	-1,700	-7,600	100	-200	0
205 Lower Meadow Valley Wash	-500	500	-3,100	-12,600	-500	300	-3,100	-12,400	-600	200	-3,100	-12,300
Total	-13,300	19,100	-32,800	-33,300	-12,500	15,400	-32,800	-30,600	-11,600	12,200	-32,800	0
Salt Lake Desert												
184 Spring Valley	-5,300	1,600	-9,000	-69,900	-5,400	600	-9,000	-68,700	-5,600	300	-9,000	0
185 Tippet Valley	-1,600	0	-4,200	0	-1,600	0	-4,200	0	-1,600	0	-4,100	0
194 Pleasant Valley	-4,400	0	0	0	-4,400	0	0	0	-4,400	0	0	0
195 Snake Valley	49,300	900	-21,600	-103,500	49,200	300	-21,600	-102,800	49,000	100	-21,600	-102,500
196 Hamlin Valley	-21,400	400	0	-200	-21,300	300	0	-100	-21,300	300	0	-100
258 Fish Springs Flat	-2,300	0	2,200	0	-2,300	0	2,200	0	-2,300	0	2,200	0
Total	14,300	2,900	-30,600	-173,600	14,200	1,200	-30,600	-171,600	13,800	700	-30,600	-170,900
White River												
171 Coat Valley	-5,100	200	0	0	-5,100	200	0	0	-5,000	100	0	0
172 Garden Valley	-22,100	0	-2,200	0	-22,200	100	-2,200	0	-22,200	100	-2,200	0
174 Jakes Valley	-10,800	100	0	0	-10,800	100	0	0	-10,800	100	0	0
175 Long Valley	3,600	0	-13,500	-800	3,600	0	-13,400	-800	3,500	0	-13,400	-800
180 Cave Valley	-15,600	200	0	0	-15,800	400	0	0	-15,900	500	0	0
181 Dry Lake Valley	-17,700	400	0	0	-18,000	700	0	0	-18,200	900	0	0
182 Delamar Valley	-7,500	0	0	0	-7,500	0	0	0	-7,500	0	0	0
206 Kane Springs Valley	-4,000	0	0	0	-4,000	0	0	0	-4,000	0	0	0
207 White River Valley	32,000	2,000	-10,900	-64,200	32,000	1,200	-10,900	-63,400	31,900	600	-10,900	-62,700
208 Pahroc Valley	-5,600	100	0	0	-5,600	100	0	0	-5,600	100	0	0
209 Pahrnagat Valley	41,000	200	-2,800	-9,500	41,000	100	-2,800	-9,500	40,900	0	-2,800	-9,400
210 Coyote Spring Valley	-6,200	400	2,000	0	-6,100	300	2,100	0	-6,000	200	2,100	0
215 Black Mountains Area	12,300	900	-1,700	-7,400	12,400	600	-1,700	-7,400	12,500	400	-1,700	-7,300
216 Garnet Valley	100	500	-800	0	300	300	-800	0	400	200	-800	0
217 Hidden Valley (North)	-300	200	0	0	-300	100	0	0	-200	100	0	0
218 California Wash	5,600	400	0	-7,500	5,500	400	0	-7,500	5,500	400	0	-7,400
219 Muddy River Springs Area	39,000	100	-8,100	-2,000	38,500	0	-8,100	-2,000	37,900	0	-8,100	-2,000
220 Lower Moapa Valley	7,900	100	-2,700	-6,600	8,000	0	-2,700	-6,500	8,100	0	-2,700	-6,500
Total	46,600	5,800	-27,000	-37,200	45,900	4,600	-27,000	-36,900	45,300	3,700	-27,000	-36,700
Grand Total	100	29,000	-102,100	-73,500	100	21,900	-102,100	-73,200	-100	17,000	-102,100	-72,900

Note: Recharge does not change and is not shown.

Source: SNWA 2010b.

Table F3.3.16-2C Simulated Annual Groundwater Budget for Alternative A (Reduced Pumping) (Cumulative Model)

Simulated Groundwater Budgets (acre-ft/year)		Alternative A				Alternative A				Alternative A						
Hydrographic Area Number and Name	Net Inter-Basin Flow	Change in Storage	ET and Springs	Stream Flow	Net Inter-Basin Flow	Change in Storage	ET and Springs	Stream Flow	Net Inter-Basin Flow	Change in Storage	ET and Springs	Stream Flow	Net Inter-Basin Flow	Change in Storage	ET and Springs	Stream Flow
Goshute Valley																
1768 Butte Valley (South)	-22,000	100	-300	-8,900	0	-22,100	100	-8,800	0	-22,100	100	-8,800	0	-22,100	100	-8,800
179 Seeples Valley	-2,300	5,100	-2,100	-72,500	0	-22,500	1,700	-68,800	0	-23,100	1,700	-68,800	0	-23,100	1,000	-67,600
Total	-44,300	5,200	-2,400	-81,400	0	-44,600	1,800	-77,600	0	-45,200	1,000	-77,600	0	-45,200	1,000	-76,400
Las Vegas																
212 Las Vegas Valley	-3,300	600	0	0	0	-3,300	600	0	0	-3,200	400	0	0	-3,200	400	0
Total	-3,300	600	0	0	0	-3,300	600	0	0	-3,200	400	0	0	-3,200	400	0
Meadow Valley Wash																
183 Lake Valley	-4,300	9,200	0	-1,900	0	-5,000	8,600	-13,400	0	-6,000	8,700	-13,400	0	-6,700	8,700	-13,400
198 Dry Valley	3,400	200	0	-1,600	0	3,200	200	-1,400	0	2,800	200	-1,400	0	2,800	200	-1,400
199 Rose Valley	400	0	0	-100	0	400	0	-100	0	300	0	-400	0	300	0	-400
200 Eagle Valley	-900	0	0	-100	0	-900	0	-100	0	-1,000	0	-100	0	-1,000	0	-100
201 Spring Valley	-6,800	100	0	-700	0	-6,900	100	-600	0	-7,100	200	-600	0	-7,100	200	-600
202 Patterson Valley	-10,400	6,400	0	0	0	-10,300	6,300	-2,900	0	-9,900	5,800	-2,900	0	-9,900	5,800	-2,900
203 Panaca Valley	12,800	3,900	0	-14,100	0	11,800	2,800	-11,900	0	10,300	2,200	-10,700	0	10,300	2,200	-10,700
204 Clover Valley	-5,500	12,600	0	-1,600	0	-2,800	9,100	-900	0	200	5,400	-14,700	0	200	5,400	-14,700
205 Lower Meadow Valley Wash	-3,200	3,700	0	-12,200	0	-4,400	3,800	-4,100	0	-5,400	3,100	-4,100	0	-5,400	3,100	-4,100
Total	-14,500	36,100	0	-32,300	0	-14,900	30,900	-49,800	0	-15,500	25,600	-49,800	0	-15,500	25,600	-49,800
Salt Lake Desert																
164 Spring Valley	-3,900	40,200	0	-48,400	0	100	20,600	-70,500	0	-32,800	13,600	-70,500	0	3,200	13,600	-70,500
185 Tippet Valley	-1,700	100	0	-4,200	0	-2,000	300	-4,000	0	-2,200	300	-3,800	0	-2,200	300	-3,800
194 Pleasant Valley	-4,400	0	0	0	0	-4,400	0	0	0	-4,400	0	0	0	-4,400	0	0
195 Snake Valley	49,200	1,000	-31,800	-103,500	-100	50,600	10,700	-57,600	0	50,400	5,800	-57,600	0	50,400	5,800	-57,600
196 Hamlin Valley	-22,200	1,300	0	-100	0	-26,200	5,100	-79,200	0	-27,500	6,400	-79,200	0	-27,500	6,400	-79,200
258 Fish Springs Flat	-2,300	0	2,200	0	0	-2,300	0	2,200	0	-2,300	0	2,200	0	-2,300	0	2,200
Total	14,700	42,600	-33,800	-152,000	-100	15,800	36,700	-128,100	0	17,200	26,100	-128,100	0	17,200	26,100	-128,100
White River																
171 Coal Valley	-5,200	300	0	0	0	-5,100	300	0	0	-5,200	300	0	0	-5,200	300	0
172 Garden Valley	-22,100	100	-2,200	0	0	-22,200	100	-100	0	-22,200	100	-100	0	-22,200	100	-100
174 Jakes Valley	-10,800	100	0	0	0	-10,800	100	0	0	-10,800	100	0	0	-10,800	100	0
175 Long Valley	3,600	0	-13,500	-800	0	3,500	0	-13,400	-800	3,500	0	-13,400	-800	3,500	0	-13,400
180 Cave Valley	-15,300	4,600	0	0	0	-14,800	4,000	-4,700	0	-14,100	3,400	-4,700	0	-14,100	3,400	-4,700
181 Dry Lake Valley	-17,800	13,100	0	0	0	-17,500	12,800	-12,600	0	-16,600	11,900	-12,600	0	-16,600	11,900	-12,600
182 Delamar Valley	-7,100	2,100	-2,900	0	0	-6,800	1,800	-2,500	0	-6,600	1,600	-2,500	0	-6,600	1,600	-2,500
206 Kane Springs Valley	-4,100	500	0	0	0	-4,100	600	-500	0	-4,000	500	-500	0	-4,000	500	-500
207 White River Valley	31,900	2,100	-10,900	-64,200	0	31,500	1,400	-63,100	0	30,700	900	-61,800	0	30,700	900	-61,800
208 Pahroc Valley	-5,700	200	0	0	0	-6,000	500	0	0	-6,200	700	0	0	-6,200	700	0
209 Pahranagat Valley	40,700	400	-9,200	-20,800	-13,200	40,000	300	-4,000	-13,100	39,200	300	-4,000	-13,100	39,200	300	-4,000
210 Coyote Spring Valley	4,700	3,400	2,300	0	0	6,100	1,700	2,600	0	6,900	600	2,600	0	6,900	600	2,600
215 Black Mountains Area	11,500	1,000	-7,100	-1,800	-1,900	11,500	800	-1,700	-1,900	11,600	500	-1,700	-1,900	11,600	500	-1,700
216 Garnet Valley	-200	800	0	0	0	0	600	-800	0	200	400	-800	0	200	400	-800
217 Hidden Valley (North)	0	400	0	0	0	-400	300	0	0	-300	100	0	0	-300	100	0
218 California Wash	5,200	800	0	-7,400	1,400	5,000	800	0	-7,400	1,500	700	0	0	1,500	700	0
219 Muddy River Springs Area	30,200	600	0	-1,600	-20,800	28,500	200	-10,800	0	26,700	100	-10,800	0	26,700	100	-10,800
220 Lower Moapa Valley	8,400	400	-6,300	-13,900	14,000	8,500	400	-6,200	-10,000	9,800	500	-6,200	-10,000	9,800	500	-6,200
Total	47,400	30,900	-36,000	-110,500	-20,500	46,900	26,700	-65,500	-35,100	46,500	22,700	-65,500	-34,500	46,500	22,700	-65,500
Grand Total	0	115,400	-72,200	-376,200	-20,600	-100	96,700	-265,300	-70,500	-200	75,800	-265,300	-69,000	-200	75,800	-265,300

Note: Recharge does not change and is not shown.
Source: SNWA 2010b.

Table F3.3.16-3C Simulated Annual Groundwater Budget for Alternative B (Points of Diversion) Cumulative Model)

Simulated Groundwater Budgets (acre-ft/year)		Alternative B				Alternative B				Alternative B						
Hydrographic Area Number and Name	Net Inter-Basin Flow	Change in Storage	ET and Springs	Stream Flow	Net Inter-Basin Flow	Change in Storage	ET and Springs	Stream Flow	Net Inter-Basin Flow	Change in Storage	ET and Springs	Stream Flow	Net Inter-Basin Flow	Change in Storage	ET and Springs	Stream Flow
Goshute Valley																
1768 Butte Valley (South)	-22,000	100	-300	-8,900	0	-22,100	0	-200	-8,800	0	-22,200	0	-22,200	0	-200	-8,800
179 Seeples Valley	-45,000	5,900	-2,100	-72,500	0	-23,500	2,600	-21,900	-68,800	0	-24,300	2,000	-24,300	2,000	-2,000	-67,400
Total	-67,000	6,000	-2,400	-81,400	0	-45,600	2,700	-21,900	-77,600	0	-46,500	2,000	-46,500	2,000	-2,200	-76,200
Las Vegas																
212 Las Vegas Valley	-3,300	600	0	0	0	-3,300	600	0	0	0	-3,200	400	-3,200	400	0	0
Total	-3,300	600	0	0	0	-3,300	600	0	0	0	-3,200	400	-3,200	400	0	0
Meadow Valley Wash																
183 Lake Valley	-8,400	12,800	0	-1,400	0	-8,600	11,700	-13,400	0	0	-8,900	12,000	-13,400	0	0	0
198 Dry Valley	3,400	200	0	-1,600	0	3,200	200	-3,500	-1,400	0	2,800	200	-3,500	0	-1,000	0
199 Rose Valley	400	0	0	-100	0	400	0	-400	-100	0	300	0	-400	0	0	0
200 Eagle Valley	-900	0	0	-100	0	-900	0	-100	-100	0	-1,000	0	-100	0	0	0
201 Spring Valley	-6,800	100	0	-700	0	-6,900	200	0	-600	0	-7,100	200	0	0	-600	0
202 Patterson Valley	-10,400	6,400	0	0	0	-10,400	6,400	-2,800	0	0	-10,100	6,100	-2,900	0	0	0
203 Panaca Valley	12,700	4,000	0	-14,100	0	11,700	2,900	-10,700	-11,900	0	10,100	2,300	-10,700	0	-9,800	0
204 Clover Valley	-5,500	12,600	0	-1,600	0	-2,800	9,100	-14,700	-900	0	200	5,400	-14,700	0	-200	0
205 Lower Meadow Valley Wash	-3,300	3,800	0	-12,200	0	-4,700	3,900	-4,100	-10,900	0	-5,800	3,300	-4,100	0	-9,100	0
Total	-18,800	39,900	0	-31,800	0	-19,000	34,400	-49,800	-25,900	0	-19,500	29,500	-49,800	0	-20,700	0
Salt Lake Desert																
164 Spring Valley	1,000	55,600	0	-44,000	0	2,900	32,300	-95,100	-22,700	0	5,100	25,200	-95,100	0	-17,800	0
185 Tipton Valley	-1,600	100	0	-4,200	0	-1,700	100	-4,100	0	0	-1,800	100	-4,000	0	0	0
194 Pleasant Valley	-4,400	0	0	0	0	-4,400	0	0	0	0	-4,400	0	0	0	0	0
195 Snake Valley	48,900	1,200	-31,800	-103,400	-100	54,400	19,400	-65,300	-84,000	0	55,900	10,100	-65,100	-30,400	-77,400	0
196 Hamlin Valley	-22,800	1,900	0	-100	0	-28,800	7,700	0	0	0	-30,800	9,700	0	0	0	0
258 Fish Springs Flat	0	0	2,200	0	0	-2,300	0	2,200	0	0	-2,300	0	2,200	0	0	0
Total	18,800	58,800	-33,800	-147,500	-100	20,100	59,500	-160,400	-106,700	0	21,700	45,100	-160,200	-32,200	-95,200	0
White River																
171 Coal Valley	-5,200	300	0	0	0	-5,200	300	0	0	0	-5,300	400	0	0	0	0
172 Garden Valley	-22,200	200	-2,200	0	0	-22,300	200	-100	-2,200	0	-22,300	200	-100	-2,200	0	0
174 Jakes Valley	-10,800	100	0	0	0	-10,800	200	0	0	0	-10,800	200	0	0	0	0
175 Long Valley	3,600	0	-13,500	-800	0	3,500	0	-13,400	-800	0	3,500	0	-13,400	0	-800	0
180 Cave Valley	-11,200	7,400	0	0	0	-10,100	6,300	-11,600	0	0	-8,900	5,000	-11,600	0	0	0
181 Dry Lake Valley	-20,300	15,600	0	0	0	-20,800	16,100	-12,600	0	0	-20,400	15,700	-12,600	0	0	0
182 Delamar Valley	-4,400	8,500	0	0	0	-1,900	6,000	-11,600	0	0	200	3,900	-11,600	0	0	0
206 Kane Springs Valley	-4,100	600	0	0	0	-4,200	700	-500	0	0	-4,200	700	-500	0	0	0
207 White River Valley	29,400	3,600	0	-63,100	0	28,600	2,000	-11,000	-60,800	0	27,400	1,200	-11,000	0	-58,800	0
208 Pahroc Valley	-5,900	400	0	0	0	-6,200	700	0	0	0	-6,500	1,000	0	0	0	0
209 Pahranagat Valley	40,100	700	-9,100	-20,700	-13,200	38,400	900	-4,000	-20,000	-13,100	36,500	800	-4,000	-7,300	-19,100	-13,000
210 Coyote Spring Valley	4,700	3,400	2,300	0	0	5,800	1,900	-14,100	2,700	0	6,500	800	-14,100	3,000	0	0
215 Black Mountains Area	11,500	1,000	-7,100	-1,800	-1,900	11,500	800	-1,700	-1,700	-1,900	11,600	500	-1,700	-6,900	-1,700	-1,800
216 Garnet Valley	-200	800	0	0	0	0	600	-800	0	0	200	400	-800	0	0	0
217 Hidden Valley (North)	400	0	0	0	0	-400	300	0	0	0	-300	100	0	0	0	0
218 California Wash	5,200	800	0	-7,400	1,400	5,000	800	0	-7,400	1,500	5,000	700	0	0	-7,300	1,600
219 Muddy River Springs Area	30,200	600	0	-1,600	-20,800	28,400	200	-10,800	-1,300	-16,600	26,500	100	-10,800	0	-1,200	-14,600
220 Lower Moapa Valley	8,400	400	-2,700	-6,300	-13,900	8,500	400	-2,700	-6,200	-9,900	8,700	500	-2,700	-6,200	-8,300	7,800
Total	48,300	44,800	-79,000	-35,900	-103,300	47,800	38,400	-81,500	-34,400	-101,900	47,400	32,200	-81,500	-33,000	-97,200	-20,000
Grand Total	0	150,000	-267,300	-72,100	-370,000	-20,700	0	-313,600	-69,900	-312,100	-100	109,200	-313,400	-67,400	-289,300	-20,000

Note: Recharge does not change and is not shown.
Source: SNWA 2010b.

Table F3.3.16-4C Simulated Annual Groundwater Budget for Alternative C (Intermittent Pumping) Cumulative Model)

Hydrographic Area Number and Name	Alternative C				Alternative C				Alternative C			
	Net Inter-Basin Flow	Change in Storage	ET and Springs	Stream Flow	Net Inter-Basin Flow	Change in Storage	ET and Springs	Stream Flow	Net Inter-Basin Flow	Change in Storage	ET and Springs	Stream Flow
Goshute Valley												
1768 Butte Valley (South)	-22,000	100	-300	-8,900	0	-22,100	0	-8,800	0	-22,100	0	-8,800
179 Seeples Valley	-2,300	5,100	-2,100	-72,500	0	-22,400	1,500	-68,800	0	-22,500	500	-67,700
Total	-44,300	5,200	-2,400	-81,400	0	-44,500	1,600	-77,600	0	-44,600	500	-76,500
Las Vegas												
212 Las Vegas Valley	-3,300	600	0	0	-3,300	600	0	0	0	-3,200	400	0
Total	-3,300	600	0	0	-3,300	600	0	0	0	-3,200	400	0
Meadow Valley Wash												
183 Lake Valley	-4,300	9,200	0	-1,900	0	-4,200	8,000	-13,400	0	-3,900	6,900	-13,400
198 Dry Valley	3,400	200	0	-1,600	0	3,200	200	-1,400	0	2,800	200	-3,500
199 Rose Valley	400	0	0	-100	0	400	0	-100	0	300	0	-400
200 Eagle Valley	-900	0	0	-100	0	-900	0	-100	0	-1,000	0	0
201 Spring Valley	-6,800	100	0	-700	0	-6,900	100	-600	0	-7,000	200	-600
202 Patterson Valley	-10,400	6,400	0	0	0	-10,300	6,200	-2,800	0	-9,700	5,700	-2,900
203 Panaca Valley	12,800	3,900	0	-14,100	0	11,800	2,800	-11,900	0	10,300	2,100	-10,700
204 Clover Valley	-5,500	12,600	0	-1,600	0	-2,800	9,100	-900	0	200	5,400	-14,700
205 Lower Meadow Valley Wash	-3,200	3,700	0	-12,200	0	-4,400	3,800	-4,100	0	-5,400	3,000	-4,100
Total	-14,500	36,100	0	-32,300	0	-14,100	30,200	-26,800	0	-13,400	23,500	-49,800
Salt Lake Desert												
164 Spring Valley	-3,900	40,200	0	-46,400	0	-2,400	32,400	-70,500	0	-2,100	24,500	-13,500
185 Tippet Valley	-1,700	100	0	4,200	0	-1,900	200	-4,000	0	-2,000	200	-3,900
194 Pleasant Valley	-4,400	0	0	0	0	-4,400	0	0	0	-4,400	0	0
195 Snake Valley	49,200	1,000	-31,800	-103,500	-100	49,400	20,500	-57,600	0	48,300	-15,400	-23,600
196 Hamlin Valley	-22,200	1,300	0	-100	0	-23,400	2,300	-22,700	0	-22,700	1,500	0
258 Fish Springs Flat	-2,300	0	0	2,200	0	-2,300	0	2,200	0	-2,300	0	2,200
Total	14,700	42,600	-33,800	-152,000	-100	15,000	55,400	-128,100	0	14,800	-38,200	-37,100
White River												
171 Coal Valley	-5,200	300	0	0	0	-5,100	200	0	0	-5,100	200	0
172 Garden Valley	-22,100	100	-2,200	0	0	-22,200	100	-100	0	-22,200	100	-100
174 Jakes Valley	-10,800	100	0	0	0	-10,800	100	0	0	-10,800	100	0
175 Long Valley	3,600	0	-13,500	-800	0	3,500	0	-13,400	-800	3,500	0	-13,400
180 Cave Valley	-15,300	4,600	0	0	0	-15,100	4,300	-4,700	0	-14,700	300	-1,000
181 Dry Lake Valley	-17,800	13,100	0	0	0	-17,700	13,100	-12,600	0	-17,300	4,500	-4,500
182 Delamar Valley	-7,100	2,100	-2,900	0	0	-6,600	1,700	-2,500	0	-6,300	1,300	-2,500
206 Kane Springs Valley	-4,100	500	0	0	0	-4,100	600	-500	0	-4,000	500	-500
207 White River Valley	31,900	2,100	-10,900	-64,200	0	31,600	1,400	-11,000	0	31,200	700	-11,000
208 Pahroc Valley	-5,700	200	0	0	0	-5,900	400	0	0	-6,100	500	0
209 Pahranagat Valley	40,700	400	-9,200	-20,800	-13,200	40,000	300	-4,000	-13,100	39,400	300	-4,000
210 Coyote Spring Valley	4,700	3,400	2,300	0	0	6,100	1,700	-14,100	2,600	6,900	600	-14,100
215 Black Mountains Area	11,500	1,000	-7,100	-1,800	-1,900	11,500	800	-1,700	-1,900	11,600	500	-1,700
216 Garnet Valley	-200	800	0	0	0	-200	600	-800	0	200	400	-800
217 Hidden Valley (North)	400	0	0	0	0	400	300	0	0	300	100	0
218 California Wash	5,200	800	0	-7,400	1,400	5,000	800	0	0	5,000	700	0
219 Muddy River Springs Area	30,200	600	0	-1,600	-20,800	28,500	200	-10,800	0	26,700	100	-10,800
220 Lower Moapa Valley	8,400	400	-6,300	-13,900	14,000	8,500	400	-6,200	-10,000	9,800	500	-6,200
Total	47,400	30,900	-63,000	-110,500	-20,500	46,800	27,000	-65,500	-104,800	46,400	11,400	-53,700
Grand Total	0	115,400	-226,700	-72,200	-376,200	-100	114,800	-265,300	-70,800	-338,900	0	-326,400

Note: Recharge does not change and is not shown.
Source: SNWA 2010b.

Table F3.3.16-5C Simulated Annual Groundwater Budget for Alternative D (LCCRDA) Cumulative Model)

Simulated Groundwater Budgets (acre-ft/year)		Alternative D				Alternative D				Alternative D						
Hydrographic Area Number and Name	Net Inter-Basin Flow	Change in Storage	ET and Springs	Stream Flow	Net Inter-Basin Flow	Change in Storage	ET and Springs	Stream Flow	Net Inter-Basin Flow	Change in Storage	ET and Springs	Stream Flow	Net Inter-Basin Flow	Change in Storage	ET and Springs	Stream Flow
Goshute Valley																
1768 Butte Valley (South)	-22,000	100	-400	-8,900	0	-22,100	0	-300	-8,900	100	0	-8,900	0	-22,100	0	-8,900
179 Seepie Valley	-22,300	6,000	-2,100	-73,400	0	-22,500	1,800	-2,100	-69,000	1,800	0	-69,000	0	-22,800	900	-67,800
Total	-44,300	6,100	-2,500	-82,300	0	-44,600	1,900	-2,400	-77,900	1,900	0	-77,900	0	-44,900	900	-76,700
Las Vegas																
212 Las Vegas Valley	-3,300	500	0	0	0	-3,300	600	0	0	600	0	0	0	-3,200	400	0
Total	-3,300	500	0	0	0	-3,300	600	0	0	600	0	0	0	-3,200	400	0
Meadow Valley Wash																
183 Lake Valley	-6,600	11,500	0	-1,800	0	-9,600	12,700	0	-100	-13,400	0	-100	0	-9,700	12,700	-13,400
198 Dry Valley	3,400	200	-3,500	-1,600	0	3,200	200	0	-1,400	-3,500	0	-1,400	0	2,800	200	-3,500
199 Rose Valley	400	0	-400	-100	0	400	0	0	-100	-400	0	-100	0	300	0	-400
200 Eagle Valley	-900	0	-100	-100	0	-900	0	0	-100	-100	0	-100	0	-1,000	0	-100
201 Spring Valley	-6,900	100	0	-700	0	-7,100	300	0	-600	300	0	-600	0	-7,300	400	-600
202 Patterson Valley	-10,400	6,400	0	0	0	-10,600	6,600	0	0	-2,900	0	0	0	-10,500	6,500	-2,900
203 Panaca Valley	12,800	4,200	0	-14,400	0	11,900	2,800	0	-12,100	-10,700	0	-12,100	0	10,300	2,200	-10,700
204 Clover Valley	-5,800	12,900	0	-1,700	0	-3,000	9,400	0	-1,000	-14,700	0	-1,000	0	100	5,500	-14,700
205 Lower Meadow Valley Wash	-3,000	3,600	-4,100	-12,300	0	-4,400	3,800	0	-11,100	-4,100	0	-11,100	0	-5,400	3,100	-9,400
Total	-17,000	38,900	-49,800	-32,700	0	-20,100	35,800	0	-26,500	-49,800	0	-26,500	0	-20,400	30,600	-49,800
Salt Lake Desert																
164 Spring Valley	5,200	32,800	-51,800	-65,900	0	20,300	23,200	0	-55,700	-70,500	0	-55,700	0	24,500	11,400	-70,500
185 Tippett Valley	-1,600	100	-4,200	0	0	-1,700	100	0	-4,100	0	0	-4,100	0	-1,800	100	-4,000
194 Pleasant Valley	-4,400	0	0	0	0	-4,400	0	0	0	0	0	0	0	-4,400	0	0
195 Snake Valley	48,600	1,500	-31,800	-103,400	-100	42,900	2,000	-21,600	-98,600	2,000	0	-98,600	0	37,600	2,500	-31,500
196 Hamlin Valley	-28,400	7,400	0	-100	0	-33,700	12,600	0	0	-33,700	0	0	0	-31,300	10,200	0
258 Fish Springs Flat	-2,300	0	2,200	0	0	-2,300	0	2,200	0	0	0	0	0	-2,300	0	0
Total	17,100	41,800	-73,400	-172,400	-100	21,100	37,900	-92,100	-154,300	-92,100	0	-154,300	0	22,300	24,200	-92,100
White River																
171 Coal Valley	-5,200	300	0	0	0	-5,100	300	0	0	300	0	0	0	-5,200	300	0
172 Garden Valley	-22,100	100	-2,200	0	0	-22,200	100	-100	-2,200	100	0	-2,200	0	-22,200	100	-2,200
174 Jakes Valley	-10,800	100	0	0	0	-10,800	100	0	0	100	0	0	0	-10,800	100	0
175 Long Valley	3,600	0	-13,500	-800	0	3,500	0	-13,400	-800	0	0	-800	0	3,500	0	-13,400
180 Cave Valley	-15,400	4,700	0	0	0	-15,000	4,200	-4,700	0	4,200	0	0	0	-14,400	3,700	-4,700
181 Dry Lake Valley	-17,800	13,100	-12,600	0	0	-17,600	12,900	-12,600	0	12,900	0	0	0	-16,900	12,200	-12,600
182 Delamar Valley	-7,100	2,200	-2,900	0	0	-6,800	1,800	-2,500	0	1,800	0	0	0	-6,600	1,600	-2,500
206 Kane Springs Valley	-4,100	500	0	0	0	-4,100	600	-500	0	600	0	0	0	-4,000	500	0
207 White River Valley	31,900	2,200	-10,900	-64,300	0	31,500	1,500	-11,000	-63,200	1,500	0	-63,200	0	30,700	1,000	-11,000
208 Pahroc Valley	-5,700	200	0	0	0	-6,000	500	0	0	500	0	0	0	-6,200	700	0
209 Pahranagat Valley	40,700	400	-9,300	-20,800	-13,200	40,100	300	-4,000	-20,500	300	0	-13,100	39,300	300	-4,000	-8,600
210 Coyote Spring Valley	4,400	3,700	2,200	0	0	6,000	1,800	2,600	0	1,800	0	2,600	6,900	600	-14,100	2,800
215 Black Mountains Area	11,500	1,000	-7,100	-1,800	-1,900	11,500	800	-1,700	-7,000	800	-1,900	-1,900	11,600	500	-1,700	-6,900
216 Garnet Valley	-200	800	-800	0	0	0	600	-800	0	600	0	0	200	400	-800	0
217 Hidden Valley (North)	5,200	400	0	0	0	-400	300	0	0	300	0	0	-300	100	0	0
218 California Wash	5,200	800	0	-7,400	1,300	5,000	800	0	-7,400	1,300	0	1,300	5,000	700	0	-7,400
219 Muddy River Springs Area	30,600	600	-9,300	0	-1,600	28,700	300	-10,800	0	-1,600	0	-1,600	26,800	100	-10,800	0
220 Lower Moapa Valley	8,400	500	-2,700	-6,300	-14,600	8,500	400	-6,200	-10,200	400	10,000	10,000	8,700	500	-2,700	-6,200
Total	47,400	31,600	-62,900	-36,200	-111,300	46,800	27,300	-65,500	-105,200	-65,500	-20,400	-105,200	46,100	23,400	-65,500	-101,500
Grand Total	-1,700	118,900	-207,900	-72,500	-398,700	-100	103,500	-229,300	-363,900	-229,300	-71,100	-363,900	-20,400	79,500	-228,300	-347,200

Note: Recharge does not change and is not shown.
Source: SNWA 2010b.

Table F3.3.16-6C Simulated Annual Groundwater Budget for Alternative E (Spring, Cave, Dry Lake, Delamar Only) (Cumulative Model)

Simulated Groundwater Budgets (acre-ft/year)		Alternative E				Alternative E				Alternative E						
Hydrographic Area Number and Name	Net Inter-Basin Flow	Change in Storage	ET and Springs	Stream Flow	Net Inter-Basin Flow	Change in Storage	ET and Springs	Stream Flow	Net Inter-Basin Flow	Change in Storage	ET and Springs	Stream Flow	Net Inter-Basin Flow	Change in Storage	ET and Springs	Stream Flow
Goshute Valley																
1768 Butte Valley (South)	-21,800	0	-400	-8,900	0	-21,800	0	-8,900	0	-21,800	0	-8,900	0	-21,800	0	-8,900
179 Seeples Valley	-22,600	900	-2,100	-78,100	0	-23,000	700	-77,500	0	-23,500	800	-77,200	0	-23,500	800	-77,200
Total	-44,400	900	-2,500	-87,000	0	-44,800	700	-86,400	0	-45,400	800	-86,100	0	-45,400	800	-86,100
Las Vegas																
212 Las Vegas Valley	-3,200	400	0	0	0	-3,100	400	0	0	-3,000	300	0	0	-3,000	300	0
Total	-3,200	400	0	0	0	-3,100	400	0	0	-3,000	300	0	0	-3,000	300	0
Meadow Valley Wash																
183 Lake Valley	-4,300	9,200	0	-1,900	0	-4,900	8,600	-13,400	0	-5,500	8,500	-13,400	0	-5,500	8,500	-13,400
198 Dry Valley	3,500	100	-3,500	-1,600	0	3,400	100	-3,500	0	3,300	100	-3,500	0	3,300	100	-3,500
199 Rose Valley	400	0	-400	-100	0	400	0	-100	0	400	0	-100	0	400	0	-100
200 Eagle Valley	-900	0	-100	-100	0	-900	0	-100	0	-900	0	-100	0	-900	0	-100
201 Spring Valley	-6,800	100	0	-700	0	-6,900	100	-600	0	-7,000	200	-600	0	-7,000	200	-600
202 Patterson Valley	-10,400	6,300	0	0	0	-10,200	6,100	-2,800	0	-9,700	5,600	-2,800	0	-9,700	5,600	-2,800
203 Panaca Valley	12,900	3,000	0	-14,600	0	12,900	1,600	-13,200	0	12,700	800	-13,200	0	12,700	800	-13,200
204 Clover Valley	-7,600	200	-200	-1,700	0	-7,600	100	-200	0	-7,600	100	-200	0	-7,600	100	-200
205 Lower Meadow Valley Wash	-500	500	0	-12,600	0	-600	400	-3,100	0	-700	200	-3,100	0	-700	200	-3,100
Total	-13,700	19,400	-33,300	-48,800	0	-14,400	17,000	-32,800	0	-15,000	15,500	-32,800	0	-15,000	15,500	-32,800
Salt Lake Desert																
164 Spring Valley	-3,900	-39,100	-69,000	-48,800	0	300	-19,500	-69,000	0	-33,400	-12,300	-69,000	0	-3,800	-12,300	-69,000
185 Tippett Valley	-1,600	0	-4,200	0	0	-1,600	200	-4,100	0	-2,000	200	-4,100	0	-2,000	200	-4,100
194 Pleasant Valley	-4,400	0	0	-4,400	0	-4,400	0	0	0	-4,400	0	0	0	-4,400	0	0
195 Snake Valley	49,200	1,000	-31,800	-103,500	-100	47,800	900	-21,600	-100	45,600	800	-21,600	-100	45,600	800	-21,600
196 Hamlin Valley	-22,200	1,300	0	-100	0	-23,700	2,600	0	0	-23,700	2,600	0	0	-23,700	2,600	0
258 Fish Springs Flat	-2,300	0	2,200	-2,300	0	-2,300	0	2,200	0	-2,300	0	2,200	0	-2,300	0	2,200
Total	14,800	41,400	-33,800	-152,400	-100	15,900	23,200	-90,800	-100	17,000	15,900	-90,800	-100	17,000	15,900	-90,800
White River																
171 Coal Valley	-5,100	200	0	0	0	-5,100	200	0	0	-5,200	300	0	0	-5,200	300	0
172 Garden Valley	-22,100	0	-2,200	0	0	-22,200	100	-2,200	0	-22,200	100	-2,200	0	-22,200	100	-2,200
174 Jakes Valley	-10,800	100	0	-800	0	-10,800	100	0	0	-10,800	100	0	0	-10,800	100	0
175 Long Valley	3,600	0	-13,500	-800	0	3,600	0	-13,400	-800	3,500	0	-13,400	-800	3,500	0	-13,400
180 Cave Valley	-15,300	4,600	0	0	0	-14,800	4,000	-4,700	0	-14,100	3,300	-4,700	0	-14,100	3,300	-4,700
181 Dry Lake Valley	-17,800	12,100	-11,600	0	0	-17,500	11,800	-11,600	0	-16,700	11,000	-11,600	0	-16,700	11,000	-11,600
182 Delamar Valley	-7,000	2,000	-2,500	0	0	-6,600	1,600	-2,500	0	-6,300	1,300	-2,500	0	-6,300	1,300	-2,500
206 Kane Springs Valley	-4,000	0	0	0	0	-4,100	100	0	0	-4,100	100	0	0	-4,100	100	0
207 White River Valley	31,900	2,100	-10,900	-64,200	0	31,500	1,400	-10,900	0	30,800	900	-10,900	0	30,800	900	-10,900
208 Pahroc Valley	-5,700	200	0	0	0	-6,000	400	0	0	-6,200	700	0	0	-6,200	700	0
209 Pahranagat Valley	40,800	300	-9,400	-21,600	-13,500	40,300	300	-2,800	-13,600	39,600	300	-2,800	-13,600	39,600	300	-2,800
210 Coyote Spring Valley	-6,200	500	2,100	0	0	-6,200	300	2,100	0	-6,200	200	2,200	0	-6,200	200	2,200
215 Black Mountains Area	12,300	900	-7,400	-2,000	-2,100	12,400	600	-1,700	-2,000	12,500	400	-1,700	-2,000	12,500	400	-1,700
216 Garnet Valley	100	500	-800	0	0	300	300	-800	0	400	200	-800	0	400	200	-800
217 Hidden Valley (North)	-300	200	0	0	0	-300	100	0	0	-200	100	0	0	-200	100	0
218 California Wash	5,600	400	0	-7,500	1,400	5,500	400	0	0	5,500	400	0	0	5,500	400	0
219 Muddy River Springs Area	39,000	100	-8,100	-2,000	-29,100	38,400	0	-8,100	0	37,800	0	-8,100	0	37,800	0	-8,100
220 Lower Moapa Valley	7,900	100	-2,700	-6,600	-20,800	8,000	0	-20,400	-21,300	8,100	0	-20,400	-21,300	8,100	0	-20,400
Total	46,800	24,300	-45,800	-37,000	-118,900	46,400	21,700	-45,800	-117,300	46,200	19,400	-45,800	-115,000	46,200	19,400	-115,000
Grand Total	400	86,400	-180,900	-73,300	-391,600	0	65,000	-180,900	-72,700	-200	51,900	-180,900	-72,000	-398,600	51,900	-180,900

Note: Recharge does not change and is not shown.
Source: SNWA 2010b.

Table F3.3.16-7C Simulated Annual Groundwater components for No Action (Cumulative Model)

Simulated Groundwater Budgets (acre-ft/year)	No Action				No Action				No Action			
	Net Inter-Basin Flow	Change in Storage	ET and Springs	Stream Flow	Net Inter-Basin Flow	Change in Storage	ET and Springs	Stream Flow	Net Inter-Basin Flow	Change in Storage	ET and Springs	Stream Flow
Goshute Valley												
178B Butte Valley (South)	-22,000	100	-300	-8,900	0	-300	0	-8,900	0	-22,100	0	-200
179 Steptoe Valley	-22,200	5,000	-2,100	-72,500	0	-22,200	-2,100	-72,500	0	-22,200	300	-2,100
Total	-44,200	5,100	-2,400	-81,400	0	-44,200	-2,400	-81,400	0	-44,300	300	-2,100
Las Vegas												
212 Las Vegas Valley	-3,300	600	0	0	0	-3,300	0	0	0	-3,200	400	0
Total	-3,300	600	0	0	0	-3,300	0	0	0	-3,200	400	0
Meadow Valley Wash												
183 Lake Valley	-3,900	8,900	-13,400	-1,900	0	-3,900	-13,400	-1,900	0	-2,600	5,600	-13,400
198 Dry Valley	3,400	200	-3,500	-1,600	0	3,400	-3,500	-1,600	0	2,800	200	-1,000
199 Rose Valley	400	0	-400	-100	0	400	-400	-100	0	300	0	0
200 Eagle Valley	-900	0	-100	-100	0	-900	-100	-100	0	-1,000	0	0
201 Spring Valley	-6,800	100	0	-700	0	-6,800	100	-700	0	-7,000	200	-600
202 Patterson Valley	-10,400	6,400	-2,900	0	0	-10,400	6,400	-2,900	0	-9,500	5,500	0
203 Panaca Valley	12,800	3,900	-10,700	-14,100	0	12,800	-10,700	-14,100	0	10,400	2,000	-9,900
204 Clover Valley	-5,500	12,600	-14,700	-1,600	0	-5,500	-14,700	-1,600	0	200	5,400	-200
205 Lower Meadow Valley Wash	-3,100	3,600	-4,100	-12,200	0	-3,100	-4,100	-12,200	0	-5,300	3,000	-9,300
Total	-14,000	35,700	-49,800	-32,300	0	-14,000	-49,800	-32,300	0	-11,700	21,900	-49,800
Salt Lake Desert												
184 Spring Valley	-5,400	2,500	-10,500	-69,300	0	-5,400	-10,500	-69,300	0	-5,500	600	-10,500
185 Tippet Valley	-1,600	100	-4,200	0	0	-1,600	0	-4,200	0	-1,800	100	-4,000
194 Pleasant Valley	-4,400	0	0	0	0	-4,400	0	0	0	-4,400	0	0
195 Snake Valley	49,300	900	-31,800	-103,500	-100	49,300	900	-31,800	-103,500	49,000	100	-21,600
196 Hamlin Valley	-21,400	400	0	-200	0	-21,400	400	-200	0	-21,400	300	-200
258 Fish Springs Flat	-2,300	0	2,200	0	0	-2,300	0	2,200	0	-2,300	0	2,200
Total	14,200	3,900	-33,800	-173,000	-100	14,200	3,900	-33,800	-173,000	13,600	1,100	-32,100
White River												
171 Coal Valley	-5,100	300	0	0	0	-5,100	300	0	0	-5,000	100	0
172 Garden Valley	-22,100	100	-2,200	0	0	-22,100	100	-2,200	0	-22,200	100	-2,200
174 Jakes Valley	-10,800	100	0	0	0	-10,800	100	0	0	-10,800	100	0
175 Long Valley	3,600	0	-13,500	-800	0	3,600	0	-13,500	-800	3,500	0	-13,400
180 Cave Valley	-15,600	200	0	0	0	-15,600	200	0	0	-16,000	500	0
181 Dry Lake Valley	-17,700	1,400	0	0	0	-17,700	1,400	0	0	-18,200	1,900	-1,000
182 Delamar Valley	-7,500	100	0	0	0	-7,500	100	0	0	-7,800	300	0
206 Kane Springs Valley	-4,000	500	0	0	0	-4,000	500	0	0	-4,000	500	0
207 White River Valley	32,000	2,100	-64,200	0	0	32,000	2,100	-64,200	0	31,900	600	-11,000
208 Pahroc Valley	-5,700	100	0	0	0	-5,700	100	0	0	-5,700	100	0
209 Pahrnagat Valley	40,900	200	-9,300	-20,800	-13,200	40,900	200	-9,300	-20,800	40,500	100	-4,000
210 Coyote Spring Valley	4,800	3,300	2,300	0	0	4,800	3,300	2,300	0	7,100	500	2,800
215 Black Mountains Area	11,500	1,000	-1,700	-1,800	-1,900	11,500	1,000	-1,800	-1,900	11,600	500	-1,700
216 Garnet Valley	-200	800	0	0	0	-200	800	0	0	200	400	0
217 Hidden Valley (North)	-500	400	0	0	0	-500	400	0	0	-300	100	0
218 California Wash	5,200	800	0	-7,400	1,400	5,200	800	0	-7,400	5,000	700	0
219 Muddy River Springs Area	30,200	600	-8,400	-1,600	-20,800	30,200	600	-8,400	-1,600	26,800	100	-10,800
220 Lower Moapa Valley	8,400	400	-2,700	-13,900	14,000	8,400	400	-2,700	-13,900	8,700	400	-2,700
Total	47,400	12,400	-44,200	-110,500	-20,500	47,400	12,400	-44,200	-110,500	45,300	7,000	-46,700
Grand Total	100	57,700	-147,900	-397,200	-20,600	100	57,700	-147,900	-397,200	-300	30,700	-150,500

Note: Recharge does not change and is not shown.

Source: SNWA 2010b.