

### **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	
<b>Goshute Valley</b>							
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
<b>Total</b>	<b>-44,400</b>	<b>2,500</b>	<b>-12,100</b>	<b>-2,600</b>	<b>-88,400</b>	<b>144,700</b>	<b>0</b>
<b>Las Vegas</b>							
212 Las Vegas Valley	-3,300	500	0	0	0	2,800	0
<b>Total</b>	<b>-3,300</b>	<b>500</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2,800</b>	<b>0</b>
<b>Meadow Valley Wash</b>							
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
<b>Total</b>	<b>-14,000</b>	<b>23,200</b>	<b>-33,500</b>	<b>0</b>	<b>-36,400</b>	<b>60,600</b>	<b>0</b>
<b>Salt Lake Desert</b>							
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
<b>Total</b>	<b>14,400</b>	<b>5,600</b>	<b>-27,200</b>	<b>-33,900</b>	<b>-179,700</b>	<b>220,800</b>	<b>-100</b>
<b>White River</b>							
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
<b>Total</b>	<b>47,000</b>	<b>8,400</b>	<b>-27,200</b>	<b>-37,300</b>	<b>-120,800</b>	<b>151,800</b>	<b>-22,100</b>
<b>Grand Total</b>	<b>-300</b>	<b>40,200</b>	<b>-100,000</b>	<b>-73,800</b>	<b>-425,300</b>	<b>580,700</b>	<b>-22,200</b>

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
<b>Goshute Valley</b>															
178B Butte Valley (South)	-21,800	0	0	-400	-8,900	0	0	0	-400	-8,900	0	0	0	0	-400
179 Steptoe Valley	-22,700	1,000	-11,700	-2,100	-78,100	0	800	-11,700	-2,100	-77,500	0	1,100	-11,700	-2,100	-77,100
<b>Total</b>	<b>-44,500</b>	<b>1,000</b>	<b>-11,700</b>	<b>-2,500</b>	<b>-87,000</b>	<b>0</b>	<b>800</b>	<b>-11,700</b>	<b>-2,500</b>	<b>-86,400</b>	<b>0</b>	<b>1,100</b>	<b>-11,700</b>	<b>-2,500</b>	<b>-86,000</b>
<b>Las Vegas</b>															
212 Las Vegas Valley	-3,200	400	0	0	0	0	400	0	0	0	0	300	0	0	0
<b>Total</b>	<b>-3,200</b>	<b>400</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>400</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>300</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Meadow Valley Wash</b>															
183 Lake Valley	-4,500	9,400	-13,400	0	-1,900	0	9,500	-13,400	0	-500	0	10,500	-13,400	0	0
198 Dry Valley	3,500	100	-3,500	0	-1,600	0	3,400	-3,500	0	-1,500	0	3,300	-3,500	0	-1,300
199 Rose Valley	400	0	-400	0	-100	0	400	0	-400	-100	0	400	0	-400	-100
200 Eagle Valley	-900	0	-100	0	-100	0	-900	0	-100	-100	0	-900	0	-100	0
201 Spring Valley	-6,800	100	0	0	-700	0	-6,900	100	0	-600	0	-7,000	200	0	-600
202 Patterson Valley	-10,400	6,300	-2,800	0	0	0	-10,300	-2,800	0	0	0	-9,900	-2,800	0	0
203 Panaca Valley	12,900	3,000	-9,300	0	-14,600	0	12,900	-9,300	0	-13,200	0	12,600	-9,300	0	-12,200
204 Clover Valley	-7,600	200	-200	0	-1,700	0	-7,600	200	-200	-1,700	0	-7,600	200	-200	-1,600
205 Lower Meadow Valley Wash	-700	600	-3,100	0	-12,600	0	-800	500	-3,100	-12,400	0	-1,000	400	-3,100	-12,000
<b>Total</b>	<b>-14,100</b>	<b>19,700</b>	<b>-32,800</b>	<b>0</b>	<b>-33,300</b>	<b>0</b>	<b>-15,800</b>	<b>18,200</b>	<b>-32,800</b>	<b>-30,100</b>	<b>0</b>	<b>-17,600</b>	<b>17,900</b>	<b>-32,800</b>	<b>0</b>
<b>Salt Lake Desert</b>															
184 Spring Valley	-3,700	59,500	-100,300	0	-38,200	0	1,900	31,600	-100,300	0	-15,800	0	22,400	-100,300	0
185 Tippet Valley	-1,700	100	0	-4,200	0	0	-2,300	500	0	-3,900	0	-2,800	500	0	-3,400
194 Pleasant Valley	-4,400	0	0	0	0	0	-4,400	0	0	0	0	-4,400	100	0	0
195 Snake Valley	49,100	1,000	-21,600	-31,800	-103,500	-100	52,600	18,100	-72,300	-31,100	-74,100	53,000	11,000	-72,300	-30,000
196 Hamlin Valley	-22,300	1,300	0	0	-100	0	-29,000	7,900	0	0	0	-31,200	10,000	0	0
258 Fish Springs Flat	-2,300	0	0	2,200	0	0	-2,300	0	2,200	0	0	-2,300	0	2,200	0
<b>Total</b>	<b>14,700</b>	<b>61,900</b>	<b>-121,900</b>	<b>-33,800</b>	<b>-141,800</b>	<b>-100</b>	<b>16,500</b>	<b>58,100</b>	<b>-172,600</b>	<b>-32,800</b>	<b>-89,900</b>	<b>18,400</b>	<b>44,000</b>	<b>-172,600</b>	<b>-79,400</b>
<b>White River</b>															
171 Coat Valley	-5,100	300	0	0	0	0	-5,200	300	0	0	0	-5,200	400	0	0
172 Garden Valley	-22,100	0	0	-2,200	0	0	-22,200	100	-2,200	0	0	-22,300	100	-2,200	0
174 Jakes Valley	-10,800	100	0	0	0	0	-10,800	100	0	0	0	-10,800	100	0	0
175 Long Valley	3,600	0	0	-13,500	-800	0	3,600	0	-13,400	-800	0	3,500	0	-13,400	-800
180 Cave Valley	-14,800	11,000	-11,600	0	0	0	-13,000	9,200	-11,600	0	0	-10,800	7,000	-11,600	0
181 Dry Lake Valley	-19,600	13,900	-11,600	0	0	0	-20,700	15,000	-11,600	0	0	-20,500	14,800	-11,600	0
182 Delamar Valley	-4,700	8,800	-11,600	0	0	0	-1,500	5,700	-11,600	0	0	700	3,400	-11,600	0
206 Kane Springs Valley	-4,100	100	0	0	0	0	-4,200	200	0	0	0	-4,200	200	0	0
207 White River Valley	-5,800	300	-10,900	0	-64,100	0	31,800	1,600	-10,900	0	-62,800	29,700	1,100	-10,900	0
208 Pahroc Valley	40,300	600	-2,800	-9,300	-13,500	0	-6,100	600	0	0	0	-6,500	900	0	0
209 Pahrnagat Valley	-6,300	500	0	2,100	0	0	-6,400	500	2,200	0	0	-6,500	400	2,400	0
210 Coyote Spring Valley	12,300	900	-1,700	-7,400	-2,000	-2,100	12,400	600	-1,700	-7,300	-1,900	12,500	400	-7,300	-1,900
215 Black Mountains Area	100	500	-800	0	0	0	300	300	-800	0	0	400	200	-800	0
216 Garnet Valley	-300	200	0	0	0	0	-300	100	0	0	0	-200	100	0	0
217 Hidden Valley (North)	5,600	400	0	0	-7,500	1,400	5,600	400	0	0	0	5,500	400	0	0
218 California Wash	39,000	100	-8,100	0	-2,000	-29,100	38,400	0	-8,100	0	-2,000	37,600	0	-8,100	-1,900
219 Muddy River Springs Area	7,900	100	-2,700	-6,600	-20,800	22,000	8,100	0	-2,700	-6,500	-20,300	8,100	0	-2,700	-19,600
220 Lower Moapa Valley	47,000	40,000	-61,800	-36,900	-118,700	-21,300	47,800	35,500	-61,800	-35,700	-116,500	48,100	30,200	-61,800	-113,000
<b>Grand Total</b>	<b>-100</b>	<b>123,000</b>	<b>-228,200</b>	<b>-73,200</b>	<b>-380,800</b>	<b>-21,400</b>	<b>300</b>	<b>113,000</b>	<b>-278,900</b>	<b>-71,000</b>	<b>-322,900</b>	<b>100</b>	<b>93,500</b>	<b>-278,900</b>	<b>-306,200</b>

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	
<b>Goshute Valley</b>																			
178B Bute Valley (South)	-21,800	0	-400	-8,900	0	-21,800	0	-400	-8,900	0	-21,800	0	-400	-8,900	0	-21,800	0	-400	-8,900
179 Steptoe Valley	-22,600	900	-2,100	-78,100	0	-23,000	700	-2,100	-77,500	0	-23,500	800	-2,100	-77,200	0	-23,500	800	-2,100	-77,200
<b>Total</b>	<b>-44,400</b>	<b>900</b>	<b>-2,500</b>	<b>-87,000</b>	<b>0</b>	<b>-44,800</b>	<b>700</b>	<b>-2,500</b>	<b>-86,400</b>	<b>0</b>	<b>-45,400</b>	<b>800</b>	<b>-2,500</b>	<b>-86,100</b>	<b>0</b>	<b>-45,400</b>	<b>800</b>	<b>-2,500</b>	<b>-86,100</b>
<b>Las Vegas</b>																			
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	0	0
<b>Total</b>	<b>-3,200</b>	<b>400</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>-3,100</b>	<b>400</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>-3,000</b>	<b>300</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>-3,000</b>	<b>300</b>	<b>0</b>	<b>0</b>
<b>Meadow Valley Wash</b>																			
183 Lake Valley	-4,300	9,200	0	-1,900	0	-5,000	8,600	-13,400	-600	0	-5,600	8,700	-13,400	0	0	-5,600	8,700	-13,400	0
188 Dry Valley	3,500	100	-3,500	0	-1,600	3,400	100	-3,500	-1,500	0	3,300	100	-3,500	0	0	3,300	100	-3,500	0
199 Rose Valley	400	0	-400	0	-100	400	0	-400	-100	0	400	0	-400	-100	0	400	0	-400	-100
200 Eagle Valley	-900	0	-100	-100	0	-900	0	-100	-100	0	-900	0	-100	-100	0	-900	0	-100	-100
201 Spring Valley	-6,800	100	0	-700	0	-6,900	100	0	-600	0	-7,000	200	0	-600	0	-7,000	200	0	-600
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	-2,800	0
203 Panaca Valley	12,900	3,000	-9,300	-14,600	0	12,900	1,600	-9,300	-13,200	0	12,700	800	-9,300	-12,200	0	12,700	800	-9,300	-12,200
204 Clover Valley	-7,600	200	-200	-1,700	0	-7,600	100	-200	-1,700	0	-7,600	100	-200	-1,600	0	-7,600	100	-200	-1,600
205 Lower Meadow Valley Wash	-500	500	-3,100	-12,600	0	-600	400	-3,100	-12,400	0	-700	200	-3,100	-12,200	0	-700	200	-3,100	-12,200
<b>Total</b>	<b>-13,700</b>	<b>19,400</b>	<b>-33,300</b>	<b>-48,800</b>	<b>-100</b>	<b>-14,500</b>	<b>17,000</b>	<b>-32,800</b>	<b>-30,200</b>	<b>0</b>	<b>-15,100</b>	<b>15,700</b>	<b>-32,800</b>	<b>-28,000</b>	<b>0</b>	<b>-15,100</b>	<b>15,700</b>	<b>-32,800</b>	<b>-28,000</b>
<b>Salt Lake Desert</b>																			
184 Spring Valley	-3,900	39,100	0	-48,800	0	-1,800	200	0	-33,400	0	-3,000	13,100	0	-29,600	0	-2,000	200	0	-29,600
185 Tippet Valley	-1,600	0	0	-4,200	0	-4,400	0	0	-4,400	0	-4,400	0	0	-4,400	0	-4,400	0	0	-4,400
194 Pleasant Valley	49,200	1,000	-31,800	-103,500	-100	50,700	10,700	-57,600	-79,300	0	50,500	5,800	-57,600	-74,800	0	50,500	5,800	-57,600	-74,800
195 Snake Valley	-22,200	1,300	0	-100	0	-26,200	5,100	0	-2,300	0	-27,500	6,400	0	-2,300	0	-27,500	6,400	0	-2,300
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	-2,300	0	0	2,200
<b>Total</b>	<b>14,800</b>	<b>41,400</b>	<b>-90,600</b>	<b>-152,400</b>	<b>-100</b>	<b>16,000</b>	<b>35,800</b>	<b>-126,600</b>	<b>-112,700</b>	<b>0</b>	<b>17,300</b>	<b>25,500</b>	<b>-126,600</b>	<b>-104,400</b>	<b>0</b>	<b>17,300</b>	<b>25,500</b>	<b>-126,600</b>	<b>-104,400</b>
<b>White River</b>																			
171 Coal Valley	-5,100	200	0	0	0	-5,100	200	0	0	0	-5,200	300	0	0	0	-5,200	300	0	0
172 Garden Valley	-22,100	0	-2,200	0	0	-22,200	100	0	-2,200	0	-22,200	100	0	-2,200	0	-22,200	100	0	-2,200
174 Jakes Valley	-10,800	100	0	0	0	-10,800	100	0	0	0	-10,800	100	0	0	0	-10,800	100	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	3,500	0	-13,400	-800
180 Cave Valley	-15,300	4,600	-4,700	0	0	-14,800	4,000	-4,700	0	0	-14,100	3,400	-4,700	0	0	-14,100	3,400	-4,700	0
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	0	-16,700	11,000	-11,600	0
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	0	-6,300	1,300	-2,500	0
206 Kane Springs Valley	-4,000	0	0	0	0	-4,100	100	0	0	0	-4,100	100	0	0	0	-4,100	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	0	30,800	900	-10,900	-61,800
208 Pahroc Valley	-5,700	200	0	0	0	-6,000	400	0	0	0	-6,200	700	0	0	0	-6,200	700	0	0
209 Pahrangat Valley	40,800	300	-9,400	-13,500	0	40,300	300	-9,200	-13,600	0	39,600	300	-9,200	-13,100	0	39,600	300	-9,200	-13,100
210 Coyote Spring Valley	-6,200	500	2,100	0	0	-6,200	300	2,100	0	0	-6,200	200	2,100	0	0	-6,200	200	2,100	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	-1,900	-2,000	12,500	400	-1,700	-1,900
216 Garnet Valley	100	500	-800	0	0	300	300	-800	0	0	400	200	-800	0	0	400	200	-800	0
217 Hidden Valley (North)	-300	200	0	0	0	-300	100	0	0	0	-200	100	0	0	0	-200	100	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	5,500	400	0	-7,400
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	37,800	0	-8,100	-2,000
220 Lower Moapa Valley	7,900	100	-2,700	-6,600	-20,800	8,000	0	-2,700	-6,500	-20,400	8,100	0	-2,700	-6,500	-19,800	8,100	0	-2,700	-6,500
<b>Total</b>	<b>46,900</b>	<b>24,300</b>	<b>-45,800</b>	<b>-37,000</b>	<b>-21,300</b>	<b>46,400</b>	<b>21,700</b>	<b>-45,800</b>	<b>-36,500</b>	<b>-117,300</b>	<b>46,200</b>	<b>19,500</b>	<b>-45,800</b>	<b>-36,100</b>	<b>-115,000</b>	<b>46,200</b>	<b>19,500</b>	<b>-45,800</b>	<b>-36,100</b>
<b>Grand Total</b>	<b>400</b>	<b>86,400</b>	<b>-180,900</b>	<b>-397,600</b>	<b>-21,400</b>	<b>400</b>	<b>86,400</b>	<b>-180,900</b>	<b>-397,600</b>	<b>-21,400</b>	<b>400</b>	<b>86,400</b>	<b>-180,900</b>	<b>-397,600</b>	<b>-21,400</b>	<b>400</b>	<b>86,400</b>	<b>-180,900</b>	<b>-397,600</b>

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-Full Storage	Build-Out Wells	ET and Springs	Net Inter-Basin Flow	Change-Full Storage	Wells	Head	ET and Springs	Net Inter-Basin Flow	Change-Full Storage	Wells	Head	ET and Springs	Net Inter-Basin Flow	Change-Full Storage	Wells	Head	ET and Springs	
<b>Goshute Valley</b>																				
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	-400	-8,900	
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	-24,700	1,800	-11,700	-2,100	-77,000
<b>Total</b>	<b>-45,100</b>	<b>1,600</b>	<b>-11,700</b>	<b>-87,000</b>	<b>0</b>	<b>-45,700</b>	<b>1,500</b>	<b>-11,700</b>	<b>-2,500</b>	<b>-86,400</b>	<b>0</b>	<b>-46,600</b>	<b>1,800</b>	<b>-11,700</b>	<b>-2,500</b>	<b>-46,600</b>	<b>1,800</b>	<b>-11,700</b>	<b>-2,500</b>	<b>-85,900</b>
<b>Las Vegas</b>																				
212 Las Vegas Valley	-3,200	400	0	0	0	-3,100	400	0	0	0	-3,100	400	0	0	-3,000	300	0	0	0	0
<b>Total</b>	<b>-3,200</b>	<b>400</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>-3,100</b>	<b>400</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>-3,100</b>	<b>400</b>	<b>0</b>	<b>0</b>	<b>-3,000</b>	<b>300</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Meadow Valley Wash</b>																				
183 Lake Valley	-8,400	12,800	-13,400	-1,400	0	-8,600	11,700	-13,400	0	0	-8,900	11,900	-13,400	0	0	-9,300	12,100	-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	-1,500	0	3,300	100	-3,500	-1,500	0
199 Rose Valley	400	0	-400	-100	0	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	-100	0	-900	0	-100	-100	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	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	-10,000	5,900	-2,800	0	0
203 Panaca Valley	12,800	3,000	-9,300	-14,600	0	12,800	1,600	-9,300	-13,200	0	12,600	900	-9,300	-12,100	0	12,600	900	-9,300	-12,100	0
204 Clover Valley	-7,600	200	-200	-1,700	0	-7,600	200	-200	-1,700	0	-7,600	100	-200	-1,600	0	-7,600	100	-200	-1,600	0
205 Lower Meadow Valley Wash	-700	600	-3,100	-12,600	0	-800	500	-3,100	-12,400	0	-1,100	400	-3,100	-12,000	0	-1,100	400	-3,100	-12,000	0
<b>Total</b>	<b>-18,100</b>	<b>23,100</b>	<b>-32,800</b>	<b>-32,800</b>	<b>0</b>	<b>-18,500</b>	<b>20,400</b>	<b>-32,800</b>	<b>-29,600</b>	<b>0</b>	<b>-19,200</b>	<b>19,500</b>	<b>-32,800</b>	<b>-27,700</b>	<b>0</b>	<b>-19,200</b>	<b>19,500</b>	<b>-32,800</b>	<b>-27,700</b>	<b>0</b>
<b>Salt Lake Desert</b>																				
184 Spring Valley	1,100	54,600	-93,700	-44,600	0	2,900	31,700	-93,700	-23,500	0	4,900	24,900	-93,700	-18,700	0	1,600	0	-4,100	0	0
185 Tippet Valley	-1,600	0	-4,200	0	0	-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	-4,400	0	-4,400	0	0	-4,400	0	-4,400	0	0	-4,400	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	56,000	10,000	-65,100	-30,400	-77,400
196 Hamlin Valley	-22,800	1,900	0	-100	0	-22,800	7,700	0	0	0	-30,800	9,700	0	0	0	-30,800	9,700	0	0	0
258 Fish Springs Flat	-2,900	0	2,200	0	0	-2,300	0	2,200	0	0	-2,300	0	2,200	0	0	-2,300	0	2,200	0	0
<b>Total</b>	<b>16,900</b>	<b>57,700</b>	<b>-115,300</b>	<b>-148,100</b>	<b>-100</b>	<b>20,200</b>	<b>58,800</b>	<b>-159,000</b>	<b>-33,300</b>	<b>-107,500</b>	<b>0</b>	<b>21,800</b>	<b>44,600</b>	<b>-158,800</b>	<b>-32,300</b>	<b>21,800</b>	<b>44,600</b>	<b>-158,800</b>	<b>-32,300</b>	<b>-96,100</b>
<b>White River</b>																				
171 Coal Valley	-5,200	300	0	0	0	-5,200	300	0	0	0	-5,300	400	0	0	-5,300	400	0	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	-22,400	200	-2,200	0	0	0
174 Jakes Valley	-10,800	100	0	0	0	-10,800	100	0	0	0	-10,800	200	0	0	-10,800	200	0	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	3,500	0	-13,400	-800	0	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	-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	-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	-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	-4,200	200	0	0	0	0
207 White River Valley	29,400	3,500	-10,900	-63,100	0	28,600	2,000	-10,900	-60,800	0	27,500	1,200	-10,900	-58,800	0	27,500	1,200	-10,900	-58,800	0
208 Pahroc Valley	-5,900	300	0	0	0	-6,200	700	0	0	0	-6,500	1,000	0	0	-6,500	1,000	0	0	0	0
209 Pahranaagat Valley	40,200	600	-2,800	-21,500	-13,500	38,600	800	-2,800	-21,200	-13,100	36,900	800	-2,800	-20,300	-13,100	36,900	800	-2,800	-20,300	-13,100
210 Coyote Spring Valley	-6,300	500	2,100	0	0	-6,500	500	2,200	0	0	-6,500	400	2,400	0	-6,500	400	2,400	0	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	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	400	200	-800	0	0	0
217 Hidden Valley (North)	-300	200	0	0	0	-300	100	0	0	0	-200	100	0	0	-200	100	0	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	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	-28,400	37,600	0	-8,100	-2,000	-27,700	37,600	0	-8,100	-2,000	-27,700
220 Lower Moapa Valley	7,900	100	-2,700	-6,600	22,000	8,100	0	-2,700	-6,500	-20,300	8,100	0	-2,700	-6,500	-19,600	8,100	0	-2,700	-6,500	-19,600
<b>Total</b>	<b>47,400</b>	<b>38,200</b>	<b>-61,800</b>	<b>-117,700</b>	<b>-21,300</b>	<b>47,400</b>	<b>33,400</b>	<b>-61,800</b>	<b>-35,700</b>	<b>-114,500</b>	<b>-20,700</b>	<b>47,100</b>	<b>29,000</b>	<b>-61,800</b>	<b>-34,700</b>	<b>47,100</b>	<b>29,000</b>	<b>-61,800</b>	<b>-34,700</b>	<b>-20,800</b>
<b>Grand Total</b>	<b>-100</b>	<b>121,000</b>	<b>-221,600</b>	<b>-73,200</b>	<b>-385,600</b>	<b>-100</b>	<b>114,500</b>	<b>-265,300</b>	<b>-71,500</b>	<b>-338,000</b>	<b>-20,700</b>	<b>100</b>	<b>95,200</b>	<b>-265,100</b>	<b>-69,500</b>	<b>100</b>	<b>95,200</b>	<b>-265,100</b>	<b>-69,500</b>	<b>-20,800</b>

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	Storage	Wells	Head	Springs	Stream Flow	Net Inter-Basin Flow	Storage	Wells	Head	Springs	Stream Flow
<b>Goshute Valley</b>																	
178B Butte Valley (South)	-21,800	0	-400	-8,900	0	-21,800	0	0	-400	-8,900	0	-21,900	0	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	0	-22,900	400	-11,700	-2,100	-77,300	0
<b>Total</b>	<b>-44,400</b>	<b>900</b>	<b>-11,700</b>	<b>-2,500</b>	<b>-87,000</b>	<b>-44,600</b>	<b>500</b>	<b>-11,700</b>	<b>-2,500</b>	<b>-86,400</b>	<b>0</b>	<b>-44,800</b>	<b>400</b>	<b>-11,700</b>	<b>-2,500</b>	<b>-86,200</b>	<b>0</b>
<b>Las Vegas</b>																	
212 Las Vegas Valley	-3,200	400	0	0	0	-3,100	400	0	0	0	0	-3,000	300	0	0	0	0
<b>Total</b>	<b>-3,200</b>	<b>400</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>-3,100</b>	<b>400</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>-3,000</b>	<b>300</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Meadow Valley Wash</b>																	
183 Lake Valley	-4,300	9,200	-13,400	0	-1,900	-4,200	8,000	-13,400	0	-800	0	-3,900	6,900	-13,400	0	0	0
198 Dry Valley	3,500	100	-3,500	0	-1,600	3,400	100	-3,500	0	-1,500	0	3,300	100	-3,500	0	-1,300	0
199 Rose Valley	400	0	-400	0	-100	400	0	-400	0	-100	0	400	0	-400	0	-100	0
200 Eagle Valley	-900	0	-100	0	-100	-900	0	-100	0	-100	0	-900	0	-100	0	0	0
201 Spring Valley	-6,800	100	0	-700	0	-6,900	100	0	0	-600	0	-7,000	200	0	0	-600	0
202 Patterson Valley	-10,400	6,300	-2,800	0	0	-10,200	6,100	-2,800	0	0	0	-9,600	5,500	-2,800	0	0	0
203 Panaca Valley	12,900	3,000	-9,300	0	-14,600	12,900	1,500	-9,300	0	-13,200	0	12,700	700	-9,300	0	-12,200	0
204 Clover Valley	-7,600	200	-200	0	-1,700	-7,600	100	-200	0	-1,700	0	-7,600	100	-200	0	-1,600	0
205 Lower Meadow Valley Wash	-500	500	-3,100	0	-12,600	-600	300	-3,100	0	-12,400	0	-700	200	-3,100	0	-12,200	0
<b>Total</b>	<b>-13,700</b>	<b>19,400</b>	<b>-32,800</b>	<b>0</b>	<b>-33,300</b>	<b>-13,700</b>	<b>16,200</b>	<b>-32,800</b>	<b>0</b>	<b>-30,400</b>	<b>0</b>	<b>-13,300</b>	<b>13,700</b>	<b>-32,800</b>	<b>0</b>	<b>-28,000</b>	<b>0</b>
<b>Salt Lake Desert</b>																	
184 Spring Valley	-3,900	39,100	-69,000	0	-48,800	-2,400	31,700	-69,000	0	-42,800	0	-2,300	-24,900	-12,000	0	-43,300	0
185 Tippet Valley	-1,600	0	-4,200	0	0	-1,700	100	-4,100	0	0	0	-1,800	100	-4,000	0	0	0
184 Pleasant Valley	-4,400	0	0	0	0	-4,400	0	0	0	0	0	-4,400	0	0	0	0	0
195 Shake Valley	49,200	1,000	-21,600	-103,500	-100	49,400	20,500	-57,600	-31,600	-87,500	0	48,400	-15,400	-23,600	-31,300	-84,900	0
196 Hamlin Valley	-22,200	1,300	0	-100	0	-23,400	2,300	0	0	0	0	-22,600	1,500	0	0	0	0
258 Fish Springs Flat	-2,300	0	2,200	0	0	-2,300	0	2,200	0	0	0	-2,300	0	2,200	0	0	0
<b>Total</b>	<b>14,800</b>	<b>41,400</b>	<b>-90,600</b>	<b>-152,400</b>	<b>-100</b>	<b>15,200</b>	<b>54,600</b>	<b>-126,600</b>	<b>-33,500</b>	<b>-130,300</b>	<b>0</b>	<b>15,000</b>	<b>-38,700</b>	<b>-35,600</b>	<b>-33,100</b>	<b>-128,200</b>	<b>0</b>
<b>White River</b>																	
177 Coal Valley	-5,100	200	0	0	0	-5,100	200	0	0	0	0	-5,100	200	0	0	0	0
172 Garden Valley	-22,100	0	-2,200	0	0	-22,200	100	-2,200	0	0	0	-22,200	100	-2,200	0	0	0
174 Jakes Valley	-10,800	100	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	3,600	0	-13,400	-800	-800	0	3,500	0	-13,400	-800	0	0
180 Cave Valley	-15,300	4,600	-4,700	0	0	-15,100	4,300	-4,700	0	0	0	-14,700	300	-1,000	0	0	0
181 Dry Lake Valley	-17,800	12,100	-11,600	0	0	-17,800	12,100	-11,600	0	0	0	-17,300	3,600	-3,500	0	0	0
182 Delamar Valley	-7,000	2,000	-2,500	0	0	-6,500	1,500	-2,500	0	0	0	-6,100	1,100	-2,500	0	0	0
206 Kane Springs Valley	-4,000	0	0	0	0	-4,100	0	0	0	0	0	-4,100	0	0	0	0	0
207 White River Valley	31,900	2,100	-10,900	-64,200	0	31,700	1,400	-10,900	-63,200	0	0	31,200	700	-10,900	0	-62,100	0
208 Pahroc Valley	-5,700	200	0	0	0	-5,900	400	0	0	0	0	-6,000	500	0	0	0	0
209 Pahranaagat Valley	40,800	300	-2,800	-9,400	-13,500	40,300	300	-2,800	-9,200	-21,500	-13,600	39,700	200	-2,800	-21,300	-13,100	-13,100
210 Coyote Spring Valley	-6,200	500	2,100	0	0	-6,200	300	2,100	0	0	0	-6,100	200	2,200	0	0	0
215 Black Mountains Area	12,300	900	-1,700	-7,400	-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	300	300	-800	0	0	0	400	200	-800	0	0	0
217 Hidden Valley (North)	-300	200	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	5,500	400	0	0	-7,500	1,500	5,000	400	0	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	0	37,800	0	-8,100	-2,000	-27,900	-27,900
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	0	-2,700	-6,500	-19,800	20,700
<b>Total</b>	<b>46,900</b>	<b>24,300</b>	<b>-45,800</b>	<b>-37,000</b>	<b>-118,900</b>	<b>46,200</b>	<b>22,200</b>	<b>-45,800</b>	<b>-36,500</b>	<b>-117,400</b>	<b>-21,300</b>	<b>45,100</b>	<b>8,200</b>	<b>-34,000</b>	<b>-36,100</b>	<b>-115,300</b>	<b>-20,800</b>
<b>Grand Total</b>	<b>400</b>	<b>86,400</b>	<b>-180,900</b>	<b>-73,300</b>	<b>-391,600</b>	<b>0</b>	<b>93,900</b>	<b>-216,900</b>	<b>-72,500</b>	<b>-364,500</b>	<b>-21,300</b>	<b>0</b>	<b>-16,100</b>	<b>-114,100</b>	<b>-71,700</b>	<b>-357,700</b>	<b>-20,800</b>

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 in Full Storage	Build-Out Wells	ET and Springs	Stream Flow	Net Inter-Basin Flow	Change in Full Storage	Build-Out Wells	ET and Springs	Stream Flow	Net Inter-Basin Flow	Change in Full Storage	Build-Out Wells	ET and Springs	Stream Flow
<b>Goshute Valley</b>															
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
<b>Total</b>	<b>-44,400</b>	<b>1,000</b>	<b>-11,700</b>	<b>-87,200</b>	<b>0</b>	<b>-44,700</b>	<b>600</b>	<b>-11,700</b>	<b>-86,600</b>	<b>0</b>	<b>-45,200</b>	<b>800</b>	<b>-11,700</b>	<b>-86,400</b>	<b>0</b>
<b>Las Vegas</b>															
212 Las Vegas Valley	-3,200	400	0	0	0	-3,100	400	0	0	0	-3,000	300	0	0	0
<b>Total</b>	<b>-3,200</b>	<b>400</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>-3,100</b>	<b>400</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>-3,000</b>	<b>300</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Meadow Valley Wash</b>															
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
<b>Total</b>	<b>-16,100</b>	<b>22,000</b>	<b>-32,800</b>	<b>-33,600</b>	<b>0</b>	<b>-19,600</b>	<b>21,600</b>	<b>-32,800</b>	<b>-29,800</b>	<b>0</b>	<b>-20,100</b>	<b>20,600</b>	<b>-32,800</b>	<b>0</b>	<b>-28,000</b>
<b>Salt Lake Desert</b>															
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	-4,400	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	-98,600	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
<b>Total</b>	<b>17,200</b>	<b>40,800</b>	<b>-72,000</b>	<b>-172,900</b>	<b>-100</b>	<b>21,100</b>	<b>37,200</b>	<b>-90,600</b>	<b>-155,100</b>	<b>0</b>	<b>22,400</b>	<b>23,400</b>	<b>-90,600</b>	<b>-143,000</b>	<b>0</b>
<b>White River</b>															
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	2,100	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	-1,900
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	5,000	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
<b>Total</b>	<b>46,600</b>	<b>24,700</b>	<b>-45,800</b>	<b>-119,100</b>	<b>-21,400</b>	<b>46,000</b>	<b>22,300</b>	<b>-45,800</b>	<b>-117,500</b>	<b>-21,200</b>	<b>45,600</b>	<b>20,000</b>	<b>-45,800</b>	<b>-115,100</b>	<b>-20,800</b>
<b>Grand Total</b>	<b>100</b>	<b>86,900</b>	<b>-162,300</b>	<b>-73,400</b>	<b>-412,800</b>	<b>-300</b>	<b>82,100</b>	<b>-180,900</b>	<b>-72,800</b>	<b>-389,000</b>	<b>-300</b>	<b>65,100</b>	<b>-180,900</b>	<b>-72,100</b>	<b>-372,500</b>

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	Build-Out Wells	Head	ET and Springs	Stream Flow	Net Inter-Basin Flow	Change in Full Storage	Build-Out Wells	Head	ET and Springs	Stream Flow	Net Inter-Basin Flow	Change in Full Storage	Build-Out Wells	Head	ET and Springs	Stream Flow	
<b>Goshute Valley</b>																			
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	-400	-8,900
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	-11,700	-2,100
<b>Total</b>	<b>-44,400</b>	<b>900</b>	<b>-11,700</b>	<b>-2,500</b>	<b>-87,000</b>	<b>-44,800</b>	<b>700</b>	<b>-11,700</b>	<b>-2,500</b>	<b>-86,400</b>	<b>-45,400</b>	<b>800</b>	<b>-11,700</b>	<b>-2,500</b>	<b>-86,100</b>	<b>-45,400</b>	<b>800</b>	<b>-11,700</b>	<b>-2,500</b>
<b>Las Vegas</b>																			
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	0	0
<b>Total</b>	<b>-3,200</b>	<b>400</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>-3,100</b>	<b>400</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>-3,000</b>	<b>300</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>-3,000</b>	<b>300</b>	<b>0</b>	<b>0</b>
<b>Meadow Valley Wash</b>																			
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	-13,400	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	3,300	100	-3,500	0
199 Rose Valley	400	0	-400	0	-100	400	0	-400	0	-100	400	0	-400	0	-100	400	0	-400	0
200 Eagle Valley	-900	0	-100	0	-100	-900	0	-100	0	-100	-900	0	-100	0	-900	-900	0	-100	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	0	-600
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	-2,800	0
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	-9,300	0
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	-200	0
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	-3,100	0
<b>Total</b>	<b>-13,700</b>	<b>19,400</b>	<b>-32,800</b>	<b>0</b>	<b>-33,300</b>	<b>-14,400</b>	<b>17,000</b>	<b>-32,800</b>	<b>0</b>	<b>-30,200</b>	<b>-15,000</b>	<b>15,500</b>	<b>-32,800</b>	<b>0</b>	<b>-28,000</b>	<b>-15,000</b>	<b>15,500</b>	<b>-32,800</b>	<b>0</b>
<b>Salt Lake Desert</b>																			
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	-69,000	0
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	-4,100	0
194 Pleasant Valley	-4,400	0	0	0	0	-4,400	0	0	0	0	-4,400	0	0	0	0	-4,400	0	0	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	-21,600	-31,700
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	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	-2,300	0	2,200	0
<b>Total</b>	<b>14,800</b>	<b>41,400</b>	<b>-90,600</b>	<b>-152,400</b>	<b>-100</b>	<b>15,900</b>	<b>23,200</b>	<b>-90,600</b>	<b>-33,700</b>	<b>-135,400</b>	<b>17,000</b>	<b>15,900</b>	<b>-90,600</b>	<b>-33,400</b>	<b>-129,500</b>	<b>17,000</b>	<b>15,900</b>	<b>-90,600</b>	<b>-33,400</b>
<b>White River</b>																			
171 Coal Valley	-5,100	200	0	0	0	-5,100	200	0	0	0	-5,200	300	0	0	-5,200	300	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	-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	-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	3,500	0	-13,400	-800	0
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	-14,100	3,300	-4,700	0
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	0	0
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	0	0
206 Kane Springs Valley	-4,000	0	0	0	0	-4,100	1,400	-10,900	0	-63,100	30,800	900	-10,900	0	0	30,800	900	-10,900	0
207 White River Valley	31,900	2,100	-10,900	-64,200	0	31,500	1,400	-10,900	0	-63,100	30,800	900	-10,900	0	-61,800	30,800	900	-10,900	0
208 Pahroc Valley	-5,700	200	0	0	0	-6,000	400	0	0	0	-6,200	700	0	0	-6,200	700	0	0	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	-9,200	39,600	300	-2,800	-9,200	-13,100
210 Coyote Spring Valley	-6,200	500	2,100	0	0	-6,200	300	2,100	0	0	-6,200	200	2,100	0	-6,200	200	2,100	0	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	-7,300	-1,900
216 Garnet Valley	100	500	-800	0	0	300	300	-800	0	0	400	200	-800	0	400	200	-800	0	0
217 Hidden Valley (North)	-300	200	0	0	0	-300	100	0	0	0	-200	100	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	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	37,800	0	-8,100	0	37,800	0	-8,100	0	-2,000
220 Lower Moapa Valley	7,900	100	-2,700	-6,600	-20,000	8,000	0	-2,700	-6,500	-20,400	8,100	0	-2,700	-6,500	8,100	0	-2,700	-6,500	-19,800
<b>Total</b>	<b>46,900</b>	<b>24,300</b>	<b>-45,800</b>	<b>-37,000</b>	<b>-118,900</b>	<b>46,400</b>	<b>21,700</b>	<b>-45,800</b>	<b>-36,500</b>	<b>-117,300</b>	<b>46,200</b>	<b>19,400</b>	<b>-45,800</b>	<b>-36,100</b>	<b>-115,000</b>	<b>46,200</b>	<b>19,400</b>	<b>-45,800</b>	<b>-36,100</b>
<b>Grand Total</b>	<b>400</b>	<b>86,400</b>	<b>-180,900</b>	<b>-73,300</b>	<b>-391,600</b>	<b>0</b>	<b>63,000</b>	<b>-180,900</b>	<b>-72,700</b>	<b>-369,300</b>	<b>-200</b>	<b>51,900</b>	<b>-180,900</b>	<b>-72,000</b>	<b>-358,600</b>	<b>-200</b>	<b>51,900</b>	<b>-180,900</b>	<b>-72,000</b>

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
<b>Goshute Valley</b>												
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
<b>Total</b>	<b>-44,300</b>	<b>800</b>	<b>-2,500</b>	<b>-87,000</b>	<b>-44,400</b>	<b>300</b>	<b>-2,500</b>	<b>-86,500</b>	<b>-44,600</b>	<b>200</b>	<b>-2,500</b>	<b>-86,300</b>
<b>Las Vegas</b>												
212 Las Vegas Valley	-3,200	400	0	0	-3,100	400	0	0	-3,000	200	0	0
<b>Total</b>	<b>-3,200</b>	<b>400</b>	<b>0</b>	<b>0</b>	<b>-3,100</b>	<b>400</b>	<b>0</b>	<b>0</b>	<b>-3,000</b>	<b>200</b>	<b>0</b>	<b>0</b>
<b>Meadow Valley Wash</b>												
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
<b>Total</b>	<b>-13,300</b>	<b>19,100</b>	<b>-32,800</b>	<b>-33,300</b>	<b>-12,500</b>	<b>15,400</b>	<b>-32,800</b>	<b>-30,600</b>	<b>-11,600</b>	<b>12,200</b>	<b>-32,800</b>	<b>0</b>
<b>Salt Lake Desert</b>												
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
<b>Total</b>	<b>14,300</b>	<b>2,900</b>	<b>-30,600</b>	<b>-173,600</b>	<b>14,200</b>	<b>1,200</b>	<b>-30,600</b>	<b>-171,600</b>	<b>13,800</b>	<b>700</b>	<b>-30,600</b>	<b>-170,900</b>
<b>White River</b>												
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	-21,600	41,000	100	-2,800	-21,500	40,900	0	-2,800	-21,500
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	-2,000	12,400	600	-1,700	-2,000	12,500	400	-1,700	-2,000
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
<b>Total</b>	<b>46,600</b>	<b>5,800</b>	<b>-27,000</b>	<b>-118,900</b>	<b>45,900</b>	<b>4,600</b>	<b>-27,000</b>	<b>-117,600</b>	<b>45,300</b>	<b>3,700</b>	<b>-27,000</b>	<b>-116,200</b>
<b>Grand Total</b>	<b>100</b>	<b>29,000</b>	<b>-102,100</b>	<b>-73,500</b>	<b>100</b>	<b>21,900</b>	<b>-102,100</b>	<b>-73,200</b>	<b>-100</b>	<b>17,000</b>	<b>-102,100</b>	<b>-72,900</b>

Note: Recharge does not change and is not shown.

Source: SNWA 2010b.

**Table F3.3.16-1C Simulated Annual Groundwater Budget for Proposed Action (Cumulative Model)**

Simulated Groundwater Budgets (acre-ft/year) Hydrographic Area Number and Name	Proposed Action at Full Build-out 2050			Proposed Action at Full Build-out 2120			Proposed Action at Full Build-out 2250		
	Net Inter-Basin Flow	Change in Storage	ET and Springs	Net Inter-Basin Flow	Change in Storage	ET and Springs	Net Inter-Basin Flow	Change in Storage	ET and Springs
<b>Goshute Valley</b>									
178B Butte Valley (South)	-22,000	100	-8,900	-22,100	100	-8,800	-22,200	100	-8,700
179 Stepipe Valley	-22,300	5,100	-72,500	-22,700	1,800	-68,800	-23,500	1,300	-67,500
<b>Total</b>	<b>-44,300</b>	<b>5,200</b>	<b>-81,400</b>	<b>-44,800</b>	<b>1,900</b>	<b>-77,600</b>	<b>-45,700</b>	<b>1,300</b>	<b>-76,300</b>
<b>Las Vegas</b>									
212 Las Vegas Valley	-3,300	600	0	-3,300	600	0	-3,200	400	0
<b>Total</b>	<b>-3,300</b>	<b>600</b>	<b>0</b>	<b>-3,300</b>	<b>600</b>	<b>0</b>	<b>-3,200</b>	<b>400</b>	<b>0</b>
<b>Meadow Valley Wash</b>									
183 Lake Valley	-4,500	9,400	-13,400	-6,000	9,500	-13,400	-7,500	10,500	-13,400
198 Dry Valley	3,400	200	-1,600	3,200	200	-1,400	2,800	200	-3,500
199 Rose Valley	400	0	-100	400	0	-100	300	0	-400
200 Eagle Valley	-900	0	-100	-900	0	-100	-1,000	0	-100
201 Spring Valley	-6,800	100	-700	-6,900	200	-600	-7,100	200	-600
202 Patterson Valley	-10,400	6,400	-2,900	-10,300	6,300	-2,900	-10,000	6,000	-2,900
203 Panaca Valley	12,800	3,900	-14,100	11,800	2,800	-10,700	10,200	2,200	-10,700
204 Clover Valley	-5,500	12,600	-1,600	-2,800	9,100	-900	200	5,400	-14,700
205 Lower Meadow Valley Wash	-3,300	3,800	-4,100	-4,700	3,900	-10,900	-5,800	3,200	-4,100
<b>Total</b>	<b>-14,800</b>	<b>36,400</b>	<b>-32,300</b>	<b>-16,200</b>	<b>32,000</b>	<b>-26,400</b>	<b>-17,900</b>	<b>27,700</b>	<b>-49,800</b>
<b>Salt Lake Desert</b>									
184 Spring Valley	-3,700	60,700	-101,700	1,900	32,500	-15,300	6,400	23,000	-101,700
185 Tippet Valley	-1,800	200	-4,100	-2,500	600	-3,800	-3,000	600	-3,300
194 Pleasant Valley	0	0	-4,400	0	0	-4,400	0	0	-4,500
195 Snake Valley	49,100	1,000	-103,500	52,600	18,100	-74,100	52,900	11,000	-72,300
196 Hamlin Valley	-22,300	1,300	-100	-29,000	7,900	-7,900	-31,200	10,100	-7,900
258 Fish Springs Flat	-2,300	0	2,200	-2,300	0	2,200	-2,300	0	2,200
<b>Total</b>	<b>14,600</b>	<b>63,200</b>	<b>-123,300</b>	<b>16,300</b>	<b>59,200</b>	<b>-89,400</b>	<b>18,300</b>	<b>44,800</b>	<b>-174,000</b>
<b>White River</b>									
171 Coal Valley	-5,200	300	0	-5,200	300	0	-5,300	400	0
172 Garden Valley	-22,100	100	-2,200	-22,200	100	-2,200	-22,300	200	-2,200
174 Jakes Valley	-10,800	100	0	-10,800	100	0	-10,800	100	0
175 Long Valley	3,600	0	-13,500	3,500	0	-13,400	3,500	0	-13,400
180 Cave Valley	-14,800	11,000	-11,600	-13,000	9,200	-11,600	-10,900	7,000	-11,600
181 Dry Lake Valley	-19,600	14,900	-12,600	-20,600	15,900	-12,600	-20,500	15,800	-12,600
182 Delamar Valley	-4,700	8,800	-11,600	-1,700	5,800	-11,600	500	3,600	-11,600
206 Kane Springs Valley	-4,100	600	-500	-4,200	700	-500	-4,200	600	-500
207 White River Valley	31,700	2,200	-64,100	31,000	1,600	-62,800	29,700	1,100	-61,000
208 Pahroc Valley	-5,800	300	0	-6,200	600	0	-6,500	1,000	0
209 Pahranaqat Valley	40,200	600	-9,100	38,500	800	-8,300	36,700	800	-4,000
210 Coyote Spring Valley	4,700	3,400	2,300	5,800	1,900	2,700	6,500	800	-14,100
215 Black Mountains Area	11,500	1,000	-1,700	11,500	800	-1,700	11,600	500	-1,700
216 Garnet Valley	-200	800	-800	0	600	-800	200	400	-800
217 Hidden Valley (North)	-500	400	0	-400	300	0	-300	100	0
218 California Wash	5,200	800	0	7,400	1,400	1,500	5,000	700	0
219 Muddy River Springs Area	30,200	600	-8,400	-1,600	-20,800	-1,300	26,500	100	-10,800
220 Lower Moapa Valley	8,400	400	-2,700	-13,900	14,000	-6,200	9,800	500	-2,700
<b>Total</b>	<b>47,000</b>	<b>46,300</b>	<b>-79,000</b>	<b>48,000</b>	<b>40,100</b>	<b>-103,900</b>	<b>48,100</b>	<b>33,700</b>	<b>-81,500</b>
<b>Grand Total</b>	<b>-100</b>	<b>151,700</b>	<b>-273,900</b>	<b>0</b>	<b>133,800</b>	<b>-69,400</b>	<b>-400</b>	<b>107,900</b>	<b>-327,200</b>

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)**

Hydrographic Area Number and Name	Alternative A				Alternative A				Alternative A					
	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		
<b>Goshute Valley</b>														
1768 Butte Valley (South)	-22,000	100	-300	-8,900	0	-22,100	100	-200	-8,800	0	-22,100	100	-200	-8,800
179 Sepole Valley	-2,300	5,100	-2,100	-72,500	0	-22,500	1,700	-21,900	-68,800	0	-23,100	1,000	-21,900	-67,600
<b>Total</b>	<b>-44,300</b>	<b>5,200</b>	<b>-2,400</b>	<b>-81,400</b>	<b>0</b>	<b>-44,600</b>	<b>1,800</b>	<b>-2,300</b>	<b>-77,600</b>	<b>0</b>	<b>-45,200</b>	<b>1,000</b>	<b>-2,200</b>	<b>-76,400</b>
<b>Las Vegas</b>														
212 Las Vegas Valley	-3,300	600	0	0	0	-3,300	600	0	0	0	-3,200	400	0	0
<b>Total</b>	<b>-3,300</b>	<b>600</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>-3,300</b>	<b>600</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>-3,200</b>	<b>400</b>	<b>0</b>	<b>0</b>
<b>Meadow Valley Wash</b>														
183 Lake Valley	-4,300	9,200	0	-1,900	0	-5,000	8,600	0	-600	0	-5,700	8,700	0	-13,400
198 Dry Valley	3,400	200	0	-1,600	0	3,200	200	0	-1,400	0	2,800	200	0	-3,500
199 Rose Valley	400	0	-400	-100	0	400	0	-400	-100	0	300	0	-400	0
200 Eagle Valley	-900	0	-100	-100	0	-900	0	-100	-100	0	-1,000	0	-100	0
201 Spring Valley	-6,800	100	0	-700	0	-6,900	100	0	-600	0	-7,100	200	0	-600
202 Patterson Valley	-10,400	6,400	0	0	0	-10,300	6,300	0	0	0	-9,900	5,800	0	0
203 Panaca Valley	12,800	3,900	0	-14,100	0	11,800	2,800	0	-11,900	0	10,300	2,200	0	-9,800
204 Clover Valley	-5,500	12,600	0	-1,600	0	-2,800	9,100	0	-900	0	200	5,400	0	-200
205 Lower Meadow Valley Wash	-3,200	3,700	0	-12,200	0	-4,400	3,800	0	-11,000	0	-5,400	3,100	0	-9,300
<b>Total</b>	<b>-14,500</b>	<b>36,100</b>	<b>0</b>	<b>-32,300</b>	<b>0</b>	<b>-14,900</b>	<b>30,900</b>	<b>0</b>	<b>-26,600</b>	<b>0</b>	<b>-15,500</b>	<b>25,600</b>	<b>0</b>	<b>-20,900</b>
<b>Salt Lake Desert</b>														
164 Spring Valley	-3,900	40,200	0	-48,400	0	100	20,600	0	-32,800	0	3,200	13,600	0	-28,900
185 Tippett Valley	-1,700	100	0	-4,200	0	-2,000	300	0	-4,000	0	-2,200	300	0	-3,800
194 Pleasant Valley	-4,400	0	0	-4,400	0	-4,400	0	0	0	0	-4,400	0	0	0
195 Snake Valley	49,200	1,000	-31,800	-103,500	-100	50,600	10,700	-57,600	-79,200	0	50,400	5,800	-30,700	-74,800
196 Hamlin Valley	-22,200	1,300	0	-100	0	-26,200	5,100	0	-27,500	0	-27,500	6,400	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
<b>Total</b>	<b>14,700</b>	<b>42,600</b>	<b>-33,800</b>	<b>-152,000</b>	<b>-100</b>	<b>15,800</b>	<b>36,700</b>	<b>-128,100</b>	<b>-112,000</b>	<b>0</b>	<b>17,200</b>	<b>26,100</b>	<b>-128,100</b>	<b>-103,700</b>
<b>White River</b>														
171 Coal Valley	-5,200	300	0	0	0	-5,100	300	0	0	0	-5,200	300	0	0
172 Garden Valley	-22,100	100	-2,200	0	0	-22,200	100	-100	-2,200	0	-22,200	100	-100	-2,200
174 Jakes Valley	-10,800	100	0	0	0	-10,800	100	0	0	0	-10,800	100	0	0
175 Long Valley	3,600	0	-13,500	-800	0	3,500	0	-13,400	-800	0	3,500	0	-13,400	-800
180 Cave Valley	-15,300	4,600	0	0	0	-14,800	4,000	-4,700	0	0	-14,100	3,400	-4,700	0
181 Dry Lake Valley	-17,800	13,100	0	0	0	-17,500	12,800	0	0	0	-16,600	11,900	0	0
182 Delamar Valley	-7,100	2,100	-2,900	0	0	-6,800	1,800	-2,500	0	0	-6,600	1,600	-2,500	0
206 Kane Springs Valley	-4,100	500	-800	0	0	-4,100	600	-500	0	0	-4,000	500	-500	0
207 White River Valley	31,900	2,100	-10,900	-64,200	0	31,500	1,400	-11,000	-63,100	0	30,700	900	-11,000	-61,800
208 Pahroc Valley	-5,700	200	0	0	0	-6,000	500	0	0	0	-6,200	700	0	0
209 Panranganat Valley	40,700	400	-9,200	-20,800	-13,200	40,000	300	-4,000	-20,400	-13,100	39,200	300	-4,000	-8,600
210 Coyote Spring Valley	4,700	3,400	2,300	0	0	6,100	1,700	2,600	0	0	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	-1,700	-1,900	11,600	500	-1,700	-6,900
216 Garnet Valley	-200	800	-800	0	0	0	600	-800	0	0	200	400	-800	0
217 Hidden Valley (North)	400	0	0	0	0	-400	300	0	0	0	-300	100	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	-7,400
219 Muddy River Springs Area	30,200	600	-8,400	0	-1,600	28,500	200	-10,800	0	-1,400	26,700	100	-10,800	0
220 Lower Moapa Valley	8,400	400	-6,300	-13,900	14,000	8,500	400	-6,200	-10,000	9,800	8,700	500	-6,200	-8,300
<b>Total</b>	<b>47,400</b>	<b>30,900</b>	<b>-63,000</b>	<b>-110,500</b>	<b>-20,500</b>	<b>46,900</b>	<b>26,700</b>	<b>-65,500</b>	<b>-104,800</b>	<b>-20,400</b>	<b>46,500</b>	<b>22,700</b>	<b>-65,500</b>	<b>-101,300</b>
<b>Grand Total</b>	<b>0</b>	<b>115,400</b>	<b>-226,700</b>	<b>-376,200</b>	<b>-20,600</b>	<b>-100</b>	<b>96,700</b>	<b>-265,300</b>	<b>-321,000</b>	<b>-20,400</b>	<b>-200</b>	<b>75,800</b>	<b>-69,000</b>	<b>-302,300</b>

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
<b>Goshute Valley</b>																
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
<b>Total</b>	<b>-67,000</b>	<b>6,000</b>	<b>-2,400</b>	<b>-81,400</b>	<b>0</b>	<b>-46,600</b>	<b>2,700</b>	<b>-21,900</b>	<b>-77,600</b>	<b>0</b>	<b>-46,500</b>	<b>2,000</b>	<b>-46,500</b>	<b>2,000</b>	<b>-2,200</b>	<b>-76,200</b>
<b>Las Vegas</b>																
212 Las Vegas Valley	-3,300	600	0	0	0	-3,300	600	0	0	0	-3,200	400	-3,200	400	0	0
<b>Total</b>	<b>-3,300</b>	<b>600</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>-3,300</b>	<b>600</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>-3,200</b>	<b>400</b>	<b>-3,200</b>	<b>400</b>	<b>0</b>	<b>0</b>
<b>Meadow Valley Wash</b>																
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	-600	-600	0	-7,100	200	-600	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
<b>Total</b>	<b>-18,800</b>	<b>39,900</b>	<b>0</b>	<b>-31,800</b>	<b>0</b>	<b>-19,000</b>	<b>34,400</b>	<b>-49,800</b>	<b>-25,900</b>	<b>0</b>	<b>-19,500</b>	<b>29,500</b>	<b>-49,800</b>	<b>0</b>	<b>-20,700</b>	<b>0</b>
<b>Salt Lake Desert</b>																
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 Tippet 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	-4,400	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
<b>Total</b>	<b>18,800</b>	<b>58,800</b>	<b>-33,800</b>	<b>-147,500</b>	<b>-100</b>	<b>20,100</b>	<b>59,500</b>	<b>-160,400</b>	<b>-106,700</b>	<b>0</b>	<b>21,700</b>	<b>45,100</b>	<b>-160,200</b>	<b>-32,200</b>	<b>-95,200</b>	<b>0</b>
<b>White River</b>																
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	-20,300	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 Panranganat 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	-7,000	-1,900	11,600	500	-1,700	-6,900	-1,700	-1,800
216 Garnet Valley	-200	800	0	0	0	0	600	-800	-1,700	0	200	400	-800	0	0	0
217 Hidden Valley (North)	400	400	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
<b>Total</b>	<b>48,300</b>	<b>44,800</b>	<b>-79,000</b>	<b>-35,900</b>	<b>-109,300</b>	<b>47,800</b>	<b>38,400</b>	<b>-81,500</b>	<b>-34,400</b>	<b>-101,900</b>	<b>47,400</b>	<b>32,200</b>	<b>-81,500</b>	<b>-33,000</b>	<b>-97,200</b>	<b>-20,000</b>
<b>Grand Total</b>	<b>0</b>	<b>150,000</b>	<b>-267,300</b>	<b>-72,100</b>	<b>-370,000</b>	<b>-20,700</b>	<b>0</b>	<b>-313,600</b>	<b>-69,900</b>	<b>-312,100</b>	<b>-100</b>	<b>109,200</b>	<b>-67,400</b>	<b>-289,300</b>	<b>-20,000</b>	<b>-20,000</b>

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
<b>Goshute Valley</b>												
1768 Butte Valley (South)	-22,000	100	-300	-8,900	0	-22,100	100	-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
<b>Total</b>	<b>-44,300</b>	<b>5,200</b>	<b>-2,400</b>	<b>-81,400</b>	<b>0</b>	<b>-44,500</b>	<b>1,600</b>	<b>-77,600</b>	<b>0</b>	<b>-44,600</b>	<b>500</b>	<b>-76,500</b>
<b>Las Vegas</b>												
212 Las Vegas Valley	-3,300	600	0	0	-3,300	600	0	0	0	-3,200	400	0
<b>Total</b>	<b>-3,300</b>	<b>600</b>	<b>0</b>	<b>0</b>	<b>-3,300</b>	<b>600</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>-3,200</b>	<b>400</b>	<b>0</b>
<b>Meadow Valley Wash</b>												
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	-100
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	-10,700	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
<b>Total</b>	<b>-14,500</b>	<b>36,100</b>	<b>0</b>	<b>-32,300</b>	<b>0</b>	<b>-14,100</b>	<b>30,200</b>	<b>-26,800</b>	<b>0</b>	<b>-13,400</b>	<b>23,500</b>	<b>-49,800</b>
<b>Salt Lake Desert</b>												
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	-87,500	0	-22,700	1,500	0
258 Fish Springs Flat	-2,300	0	2,200	0	0	-2,300	0	2,200	0	-2,300	0	2,200
<b>Total</b>	<b>14,700</b>	<b>42,600</b>	<b>-33,800</b>	<b>-152,000</b>	<b>-100</b>	<b>15,000</b>	<b>55,400</b>	<b>-128,100</b>	<b>0</b>	<b>14,800</b>	<b>-38,200</b>	<b>-37,100</b>
<b>White River</b>												
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	-63,100	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 Pahrangat 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	2,600	0	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
<b>Total</b>	<b>47,400</b>	<b>30,900</b>	<b>-36,000</b>	<b>-110,500</b>	<b>-20,500</b>	<b>46,800</b>	<b>27,000</b>	<b>-104,800</b>	<b>-20,400</b>	<b>46,400</b>	<b>11,400</b>	<b>-53,700</b>
<b>Grand Total</b>	<b>0</b>	<b>115,400</b>	<b>-226,700</b>	<b>-772,200</b>	<b>-376,200</b>	<b>-100</b>	<b>114,800</b>	<b>-265,300</b>	<b>-70,800</b>	<b>-338,900</b>	<b>0</b>	<b>-326,400</b>

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
<b>Goshute Valley</b>																
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	1,900	-21,900	-69,000	0	-22,800	900	-67,800
<b>Total</b>	<b>-44,300</b>	<b>6,100</b>	<b>-2,500</b>	<b>-82,300</b>	<b>0</b>	<b>-44,600</b>	<b>1,900</b>	<b>-2,400</b>	<b>-77,900</b>	<b>2,000</b>	<b>-21,900</b>	<b>-77,900</b>	<b>0</b>	<b>-44,900</b>	<b>900</b>	<b>-76,700</b>
<b>Las Vegas</b>																
212 Las Vegas Valley	-3,300	500	0	0	0	-3,300	600	0	0	600	0	0	0	-3,200	400	0
<b>Total</b>	<b>-3,300</b>	<b>500</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>-3,300</b>	<b>600</b>	<b>0</b>	<b>0</b>	<b>600</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>-3,200</b>	<b>400</b>	<b>0</b>
<b>Meadow Valley Wash</b>																
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	0
201 Spring Valley	-6,900	100	0	-700	0	-7,100	300	0	-600	300	0	-600	0	-7,300	400	0
202 Patterson Valley	-10,400	6,400	0	0	0	-10,600	6,600	0	-2,800	-2,800	0	-2,800	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
<b>Total</b>	<b>-17,000</b>	<b>38,900</b>	<b>-49,800</b>	<b>-32,700</b>	<b>0</b>	<b>-20,100</b>	<b>35,800</b>	<b>0</b>	<b>-26,500</b>	<b>-49,800</b>	<b>0</b>	<b>-26,500</b>	<b>0</b>	<b>-20,400</b>	<b>30,600</b>	<b>-49,800</b>
<b>Salt Lake Desert</b>																
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	0
194 Pleasant Valley	-4,400	0	0	-103,400	-100	-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	-21,600	-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	0	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
<b>Total</b>	<b>17,100</b>	<b>41,800</b>	<b>-73,400</b>	<b>-172,400</b>	<b>-100</b>	<b>21,100</b>	<b>37,900</b>	<b>-92,100</b>	<b>-154,300</b>	<b>-92,100</b>	<b>0</b>	<b>-154,300</b>	<b>0</b>	<b>22,300</b>	<b>24,200</b>	<b>-142,000</b>
<b>White River</b>																
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	-100	-2,200	0	-22,200	100	-2,200
174 Jakes Valley	-10,800	100	0	-800	0	-10,800	100	0	-800	100	0	-800	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	-800
180 Cave Valley	-15,400	4,700	0	0	0	-15,000	4,200	-4,700	0	4,200	-4,700	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	-12,600	0	-16,900	12,200	-12,600	
182 Delamar Valley	-7,100	2,200	-2,800	0	0	-6,800	1,800	-2,500	0	1,800	-2,500	0	-6,600	1,600	-2,500	
206 Kane Springs Valley	-4,100	500	0	0	0	-4,100	600	-500	0	600	-500	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	-11,000	-63,200	0	30,700	1,000	-61,900
208 Pahroc Valley	-5,700	200	0	0	0	-6,000	500	0	0	500	0	0	-6,200	700	0	
209 Panranganat Valley	40,700	400	-9,300	-20,800	-13,200	40,100	300	-4,000	-20,500	300	-4,000	-20,500	-13,100	39,300	300	-4,000
210 Coyote Spring Valley	4,400	3,700	2,200	0	0	6,000	1,800	2,600	0	1,800	-14,100	2,600	0	6,900	600	-14,100
215 Black Mountains Area	11,500	1,000	-7,100	-1,800	-1,900	11,500	800	-1,700	-7,000	800	-1,700	-7,000	-1,900	11,600	500	-6,900
216 Garnet Valley	-200	800	-800	0	0	0	600	-800	0	600	-800	0	200	400	-800	
217 Hidden Valley (North)	5,200	400	0	-7,400	1,300	4,000	300	0	-7,400	300	0	-7,400	1,500	5,000	100	0
218 California Wash	5,200	800	0	-7,400	1,300	4,000	300	0	-7,400	300	0	-7,400	1,500	5,000	100	0
219 Muddy River Springs Area	30,600	600	-9,300	-1,600	-21,400	28,700	300	-10,800	-1,400	-16,900	300	-1,400	-16,900	26,800	100	-10,800
220 Lower Moapa Valley	8,400	500	-2,700	-6,300	-14,600	8,500	400	-6,200	-10,200	400	-6,200	-10,200	10,000	8,700	500	-2,700
<b>Total</b>	<b>47,400</b>	<b>31,600</b>	<b>-62,900</b>	<b>-36,200</b>	<b>-111,300</b>	<b>46,800</b>	<b>27,300</b>	<b>-65,500</b>	<b>-105,200</b>	<b>-20,400</b>	<b>-105,200</b>	<b>-20,400</b>	<b>-105,200</b>	<b>46,100</b>	<b>23,400</b>	<b>-101,500</b>
<b>Grand Total</b>	<b>-1,400</b>	<b>118,900</b>	<b>-207,900</b>	<b>-72,500</b>	<b>-398,700</b>	<b>-100</b>	<b>103,500</b>	<b>-229,300</b>	<b>-363,900</b>	<b>-20,400</b>	<b>-363,900</b>	<b>-20,400</b>	<b>-363,900</b>	<b>-100</b>	<b>79,500</b>	<b>-347,200</b>

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
<b>Goshute Valley</b>																
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	-24,000	900	-76,800
<b>Total</b>	<b>-44,400</b>	<b>900</b>	<b>-2,500</b>	<b>-87,000</b>	<b>0</b>	<b>-44,800</b>	<b>700</b>	<b>-86,400</b>	<b>0</b>	<b>-45,400</b>	<b>800</b>	<b>-86,100</b>	<b>0</b>	<b>-46,000</b>	<b>900</b>	<b>-85,800</b>
<b>Las Vegas</b>																
212 Las Vegas Valley	-3,200	400	0	0	0	-3,100	400	0	0	-3,000	300	0	0	-2,900	300	0
<b>Total</b>	<b>-3,200</b>	<b>400</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>-3,100</b>	<b>400</b>	<b>0</b>	<b>0</b>	<b>-3,000</b>	<b>300</b>	<b>0</b>	<b>0</b>	<b>-2,900</b>	<b>300</b>	<b>0</b>
<b>Meadow Valley Wash</b>																
183 Lake Valley	-4,300	9,200	0	-1,900	0	-4,900	8,600	0	-600	-5,500	8,500	0	-13,400	-6,000	8,500	0
198 Dry Valley	3,500	100	0	-1,600	0	3,400	100	-1,500	0	3,300	100	-1,300	0	3,200	100	-1,300
199 Rose Valley	400	0	0	-100	0	400	0	-100	0	400	0	-100	0	400	0	-100
200 Eagle Valley	-900	0	0	-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	0	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	-9,300	0	12,700	800	-9,300
204 Clover Valley	-7,600	200	0	-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	-12,400	0	-700	200	-12,200	0	-800	0	-12,200
<b>Total</b>	<b>-13,700</b>	<b>19,400</b>	<b>0</b>	<b>-33,300</b>	<b>0</b>	<b>-14,400</b>	<b>17,000</b>	<b>-30,200</b>	<b>0</b>	<b>-15,000</b>	<b>15,500</b>	<b>-32,800</b>	<b>0</b>	<b>-16,000</b>	<b>16,000</b>	<b>-32,800</b>
<b>Salt Lake Desert</b>																
164 Spring Valley	-3,900	39,100	0	-48,800	0	300	19,500	-69,000	0	-33,400	12,300	-69,000	0	-3,900	12,300	-69,000
185 Tippet Valley	-1,600	0	0	-4,200	0	-1,600	200	-4,100	0	-2,000	200	-3,900	0	-2,000	200	-3,900
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	-102,000	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	0	2,200	0	-2,300	0	2,200	0	-2,300	0	2,200	0	-2,300	0	2,200
<b>Total</b>	<b>14,800</b>	<b>41,400</b>	<b>-33,800</b>	<b>-152,400</b>	<b>-100</b>	<b>15,900</b>	<b>23,200</b>	<b>-90,800</b>	<b>-135,400</b>	<b>17,000</b>	<b>15,900</b>	<b>-90,800</b>	<b>-100</b>	<b>17,000</b>	<b>15,900</b>	<b>-90,800</b>
<b>White River</b>																
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	-2,900	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	-64,200	0	0	31,500	1,400	-63,100	0	30,800	900	-61,800	0	30,800	900	-61,800
208 Pahroc Valley	-5,700	200	0	0	0	-6,000	400	0	0	-6,200	700	0	0	-6,200	700	0
209 Panranganat Valley	40,800	300	-9,400	-13,500	0	40,300	300	-9,200	-13,600	39,600	300	-9,000	-13,700	39,600	300	-8,800
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	-7,300	-2,000	12,500	400	-7,300	-2,000	12,500	400	-7,300
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	-7,500	5,500	400	0	-7,500	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	37,800	0	-8,100	-2,000	37,800	0	-8,100
220 Lower Moapa Valley	7,900	100	-2,700	-6,600	-20,800	8,000	0	-6,500	-20,400	8,100	0	-6,500	-20,400	8,100	0	-6,500
<b>Total</b>	<b>46,900</b>	<b>24,300</b>	<b>-45,800</b>	<b>-37,000</b>	<b>-118,900</b>	<b>46,400</b>	<b>21,700</b>	<b>-45,800</b>	<b>-117,300</b>	<b>46,200</b>	<b>19,400</b>	<b>-45,800</b>	<b>-36,100</b>	<b>46,200</b>	<b>19,400</b>	<b>-45,800</b>
<b>Grand Total</b>	<b>400</b>	<b>86,400</b>	<b>-180,900</b>	<b>-73,300</b>	<b>-391,600</b>	<b>0</b>	<b>63,000</b>	<b>-180,900</b>	<b>-72,700</b>	<b>-200</b>	<b>51,900</b>	<b>-180,900</b>	<b>-72,000</b>	<b>-396,600</b>	<b>51,900</b>	<b>-180,900</b>

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				
Hydrographic Area Number and Name	Net Inter-Basin Flow	Change in Storage	at Full Build-Out		at Full Build-Out		at Full Build-Out		at Full Build-Out		at Full Build-Out		Stream Flow	
			Wells	Head	Wells	Head	Wells	Head	Wells	Head				
<b>Goshute Valley</b>														
178B Butte Valley (South)	-22,000	100	0	-300	-8,900	0	-300	0	-8,900	0	-22,100	0	-200	-8,800
179 Steptoe Valley	-22,200	5,000	0	-2,100	-72,500	0	-2,100	-2,100	-72,500	0	-22,200	300	-2,100	-67,800
<b>Total</b>	<b>-44,200</b>	<b>5,100</b>	<b>0</b>	<b>-2,400</b>	<b>-81,400</b>	<b>0</b>	<b>-4,200</b>	<b>5,100</b>	<b>-21,800</b>	<b>-2,400</b>	<b>-44,300</b>	<b>300</b>	<b>-2,100</b>	<b>-76,600</b>
<b>Las Vegas</b>														
212 Las Vegas Valley	-3,300	600	0	0	0	0	0	0	0	0	-3,200	400	0	0
<b>Total</b>	<b>-3,300</b>	<b>600</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>600</b>	<b>0</b>	<b>0</b>	<b>-3,200</b>	<b>400</b>	<b>0</b>	<b>0</b>
<b>Meadow Valley Wash</b>														
183 Lake Valley	-3,900	8,900	-13,400	0	-1,900	0	-13,400	0	-1,900	0	-2,600	5,600	-13,400	0
198 Dry Valley	3,400	200	-3,500	0	-1,600	0	-3,500	0	-1,600	0	2,800	200	-3,500	-1,000
199 Rose Valley	400	0	-400	0	-100	0	-400	0	-100	0	300	0	-400	0
200 Eagle Valley	-900	0	-100	0	-100	0	-100	0	-100	0	-1,000	0	-100	0
201 Spring Valley	-6,800	100	0	0	-700	0	-700	0	-700	0	-7,000	200	0	-600
202 Patterson Valley	-10,400	6,400	-2,900	0	-10,400	0	-2,900	0	-10,400	0	-9,500	5,500	-2,900	0
203 Panaca Valley	12,800	3,900	-10,700	0	-14,100	0	-10,700	0	-14,100	0	10,400	2,000	-10,700	-9,900
204 Clover Valley	-5,500	12,600	-14,700	0	-1,600	0	-14,700	0	-1,600	0	200	5,400	-14,700	-200
205 Lower Meadow Valley Wash	-3,100	3,600	-4,100	0	-12,200	0	-4,100	0	-12,200	0	-5,300	3,000	-4,100	-9,300
<b>Total</b>	<b>-14,000</b>	<b>35,700</b>	<b>-49,800</b>	<b>0</b>	<b>-32,300</b>	<b>0</b>	<b>-49,800</b>	<b>0</b>	<b>-32,300</b>	<b>0</b>	<b>-11,700</b>	<b>21,900</b>	<b>-49,800</b>	<b>-21,000</b>
<b>Salt Lake Desert</b>														
184 Spring Valley	-5,400	2,500	-10,500	0	-69,300	0	-10,500	0	-69,300	0	-5,500	600	-10,500	-67,300
185 Tippet Valley	-1,600	100	0	-4,200	0	0	0	-4,200	0	0	-1,800	100	0	-4,000
194 Pleasant Valley	-4,400	0	0	0	0	0	0	0	0	0	-4,400	0	0	0
195 Snake Valley	49,300	900	-21,600	-103,500	-100	49,300	900	-21,600	-103,500	-100	49,000	100	-21,600	-102,500
196 Hamlin Valley	-21,400	400	0	-200	0	-21,400	400	0	-200	0	-21,400	300	0	-100
258 Fish Springs Flat	-2,300	0	0	2,200	0	-2,300	0	2,200	0	-2,300	0	2,200	0	0
<b>Total</b>	<b>14,200</b>	<b>3,900</b>	<b>-32,100</b>	<b>-33,800</b>	<b>-173,000</b>	<b>-100</b>	<b>3,900</b>	<b>-32,100</b>	<b>-173,000</b>	<b>-100</b>	<b>13,600</b>	<b>1,100</b>	<b>-32,100</b>	<b>-169,900</b>
<b>White River</b>														
171 Coal Valley	-5,100	300	0	0	0	0	0	0	0	0	-5,000	100	0	0
172 Garden Valley	-22,100	100	-100	-2,200	0	-22,100	100	-100	-2,200	0	-22,200	100	-100	-2,200
174 Jakes Valley	-10,800	100	0	0	0	-10,800	100	0	0	0	-10,800	100	0	0
175 Long Valley	3,600	0	0	-13,500	-800	3,600	0	0	-13,500	-800	3,500	0	0	-800
180 Cave Valley	-15,600	200	0	0	0	-15,600	200	0	0	0	-16,000	500	0	0
181 Dry Lake Valley	-17,700	1,400	-1,000	0	-17,700	1,400	-1,000	0	0	-18,200	1,900	-1,000	0	0
182 Delamar Valley	-7,500	100	0	0	0	-7,500	100	0	0	0	-7,800	300	0	0
206 Kane Springs Valley	-4,000	500	-500	0	-4,000	500	-500	0	-4,000	500	-4,000	500	-500	0
207 White River Valley	32,000	2,100	-10,900	-64,200	0	32,000	2,100	-10,900	-64,200	0	31,900	600	-11,000	-62,600
208 Pahroc Valley	-5,700	100	0	0	0	-5,700	100	0	0	0	-5,700	100	0	0
209 Pahrnagat Valley	40,900	200	-4,000	-20,800	-13,200	40,900	200	-4,000	-20,800	-13,200	40,500	100	-4,000	-9,100
210 Coyote Spring Valley	4,800	3,300	-14,100	2,300	0	4,800	3,300	-14,100	2,300	0	7,100	500	-14,100	2,800
215 Black Mountains Area	11,500	1,000	-1,700	-7,100	-1,800	11,500	1,000	-1,700	-7,100	-1,800	11,600	500	-1,700	-6,900
216 Garnet Valley	-200	800	-800	0	0	-200	800	-800	0	0	200	400	-800	0
217 Hidden Valley (North)	-500	400	0	0	0	-500	400	0	0	0	-300	100	0	0
218 California Wash	5,200	800	0	0	-7,400	1,400	0	0	-7,400	1,400	5,000	700	0	-7,400
219 Muddy River Springs Area	30,200	600	-8,400	0	-1,600	-20,800	600	-8,400	0	-1,600	26,800	100	-10,800	-14,900
220 Lower Moapa Valley	8,400	400	-2,700	-6,300	-13,900	14,000	400	-2,700	-6,300	-13,900	14,000	400	-2,700	-8,400
<b>Total</b>	<b>47,400</b>	<b>12,400</b>	<b>-44,200</b>	<b>-110,500</b>	<b>-20,500</b>	<b>47,400</b>	<b>12,400</b>	<b>-44,200</b>	<b>-110,500</b>	<b>-20,500</b>	<b>45,300</b>	<b>7,000</b>	<b>-46,700</b>	<b>-102,600</b>
<b>Grand Total</b>	<b>100</b>	<b>57,700</b>	<b>-147,900</b>	<b>-72,300</b>	<b>-397,200</b>	<b>-20,600</b>	<b>100</b>	<b>57,700</b>	<b>-147,900</b>	<b>-72,300</b>	<b>-300</b>	<b>30,700</b>	<b>-150,500</b>	<b>-370,100</b>

Note: Recharge does not change and is not shown.

Source: SNWA 2010b.