

Ground-Water Flow and Simulated Effects of Development in Stagecoach Valley, a Small, Partly Drained Basin in Lyon and Storey Counties, Western Nevada

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REGIONAL AQUIFER-SYSTEM ANALYSIS—GREAT BASIN, NEVADA-UTAH

U.S. GEOLOGICAL SURVEY PROFESSIONAL PAPER 1409-H



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TABLE 18.—Ground-water budgets for scenario I

(All data values are in acre-feet per year and are considered reasonable only to two significant figures. —, none or negligible)

	Pre-1971 conditions ¹	Simulated elapsed pumping time				
		1.5 years	25 years	50 years	100 years	300 years
Inflow						
Recharge from precipitation	547	547	547	547	547	547
Inflow from Carson River (upstream reach)	283	282	314	327	346	377
Inflow from Carson River (downstream reach)	86	88	108	124	145	180
Subsurface inflow from Churchill Valley	—	—	—	—	—	—
Total	916	917	969	998	1,038	1,104
Outflow						
Subsurface outflow to Churchill Valley	166	164	146	130	110	85
Net pumpage	—	966	966	966	966	966
Evapotranspiration	635	492	98	34	9	—
Outflow to Carson River (downstream reach)	116	115	107	104	99	92
Total	917	1,737	1,312	1,234	1,184	1,143
Net results						
Net outflow-inflow ²	1	820	343	236	146	39
Simulated storage depletion	—	818	339	232	139	29

¹Predevelopment conditions, based on steady-state simulation.²See footnote 2 of table 10.