

TABLE 9.—Carbon-isotope date for waters in the hot-springs area

Well or spring No. <sup>1</sup> (fig. 6)	Name	Total dissolved carbonate (millimoles per liter)	Measured $\delta^{13}\text{C}$ PDB (‰)	Proportion plant carbonate	Calculated $\delta^{13}\text{C}$ PDB (‰)	Measured $^{14}\text{C}$ (percentage modern $\pm 1\sigma$ )	Adjusted $^{14}\text{C}$ (percentage modern)	Adjusted age (years)
S8	Happy Hollow Spring	1.13	( <sup>2</sup> )	} 1.000	-24.0	{ ( <sup>2</sup> ) 101.7 $\pm$ 1.6 98.9 $\pm$ 1.5 }	Recharge.	
W19	Belvedere Country Club well	1.44	-22.5					
W20	Frank Thompson's house well	0.88	-23.7					
S10	Sleepy Valley Spring	1.41	-22.6	.904	-21.7	( <sup>2</sup> )		
W17	Bill Sargo's well	<sup>2</sup> 1.02	-24.1			( <sup>2</sup> )		
W16	R. B. Yates' well	1.85	-23.6			<sup>3</sup> 111.8 $\pm$ 1.3		
S11	McLendon Mineral Spring	2.78	-13.8	.620	-14.9	39.5 $\pm$ 0.8	63.7	3,730
W21	Gulpha Gorge well	3.05	-14.4	.585	-14.0	35.5 $\pm$ 0.5	60.7	4,130
S7	Cluster Spring	3.49	-15.8	.670	-16.1	37.3 $\pm$ 0.4	55.7	4,840
W26	Whittington Avenue Spring	3.85	-14.3	.650	-15.6	31.2 $\pm$ 0.5	48.0	6,070
W25	Whittington Park well	3.94	-13.8	.565	-13.6	23.7 $\pm$ 0.3	41.9	7,180
S5	Echo Valley Spring	4.06	-14.9	.558	-13.4	22.2 $\pm$ 0.3	39.8	7,620
W12	Elizabeth Brown well	3.88	-15.5	.625	-15.0	21.2 $\pm$ 0.4	33.9	8,940
W24	Diamond Mineral Spring	4.15	-13.3	.566	-13.6	19.4 $\pm$ 0.3	34.3	8,850
	Maurice Hot Spring	3.00	-14.7			( <sup>2</sup> )		
	Hot Spring No. 17	2.70	*-14.1			*36.9 $\pm$ 0.5		
	Hot Spring No. 23	2.74	*-14.2			*35.1 $\pm$ 0.6		
	Hot Spring No. 33	3.06	-14.6			( <sup>2</sup> )		
	Hot Spring No. 46	3.18	*-14.8			*35.6 $\pm$ 0.7		
	Hot Spring No. 48	2.97	*-14.3			*38.7 $\pm$ 0.7		
	80,000-gallon reservoir	2.97	*-14.4			*30.4 $\pm$ 0.6		
	Hot Spring No. 42	3.18	( <sup>2</sup> )			(4.6 $\pm$ 1.2)		
	Hot Spring No. 49	3.07	*-16.1			*36.8 $\pm$ 0.9		
	Average of samples indicated by (*)		-14.6	.608		35.6 $\pm$	58.5	4,430

<sup>1</sup> U.S. Geological Survey numbers of wells and springs are given in table 7.<sup>2</sup> Not analyzed.<sup>3</sup> Man influenced; not representative.