

TABLE 3. REVISED ESTIMATES OF THE PHYSICAL DIMENSIONS OF CRBG UNITS*

CRBG Unit	Areal Extent (km ²)	Volume (km ³)	Volume Percent	Est. Number of Flows	Average Volume per Flow (km ³)	Isotopic Age (Ma)
Saddle Mountains Basalt						
Lower Monumental Member	430	15	0.01	1	15	6
Ice Harbor Member	2150	75	0.04	4	19	
Buford Member	580	20	0.01	1	20	
Elephant Mountain Member	13,450	440	0.25	2	220	10.5
Pomona Member	20,550	760	0.44	1	760	12
Esquatzel Member	2710	70	0.04	1	70	
Weissenfels Ridge Member	1210	20	0.01	4	5	
Asotin Member	6440	220	0.13	1	220	
Wilbur Creek Member	3090	70	0.04	2	35	
Umatilla Member	15,110	720	0.41	2	360	
Composite Saddle Mountains	30,570	2410	1.38	19	127	
Wanapum Basalt						
Priest Rapids Member	57,300	2800	1.60	3	933	14.5
Roza Member	40,350	1300	0.74	4	325	
Frenchman Springs Member						
basalt of Lyons Ferry	5900	90	0.05	1	90	
basalt of Sentinel Gap	38,760	1190	0.68	4	297	
basalt of Sand Hollow	67,110	2660	1.52	7	380	15.3
basalt of Silver Falls	28,840	710	0.41	4	177	
basalt of Ginkgo	37,170	1570	0.90	4	392	
basalt of Palouse Falls	8890	190	0.12	1	190	
Composite Frenchman Springs	69,740	6410	3.68	21	305	
Eckler Mountain Member	6090	170	0.10	8	21	
Composite Wanapum	95,950	10,680	6.12	36	297	
Grande Ronde Basalt						
N ₂ Grande Ronde Basalt	114,460	27,900	16.00	33	845	15.6
R ₂ Grande Ronde Basalt	117,730	53,100	30.46	45	1180	
N ₁ Grande Ronde Basalt	102,340	31,400	18.01	15	2093	
R ₁ Grande Ronde Basalt	96,650	36,200	20.76	27	1340	16.5
Composite Grande Ronde	149,000	148,600	85.23	120	1238	
Prineville Basalt						
	11,440	590	0.34	8	74	
Picture Gorge Basalt						
	10,680	2400	1.38	61	39	
Imnaha basalt						
	50,200	9500	5.45	26	365	17 - 16.5
Craigmont member	280	6	0.003	1	6	
Swamp Creek member	140	3	0.002	1	3	
Grangeville member	520	11	0.006	1	11	
Icicle Flat member	350	7	0.004	1	7	
basalt of Feary Creek	60	1	0.0005	3	0.33	
Onaway member	370	7	0.004	2	3.5	
basalt of Cuddy Mountain	70	1	0.0005	4	0.25	
Weiser basalt	2130	140	0.080	28	5	
CRBG—TOTALS	163,700	174,356	100	311	561	17 - 6

*Number of flows within units taken from the following sources:

Lower Monumental Member—Swanson and others, 1979b
Ice Harbor Member—Helz, 1978
Buford Member—Ross, 1978
Elephant Mountain Member—Swanson and others, 1979b; Reidel and Fecht, 1981
Pomona Member—Swanson and others, 1979b, 1981
Esquatzel Member—Swanson and others, 1979b; Reidel and Fecht, 1981
Weissenfels Ridge Member—Hooper and others, 1985; Reidel and others, 1989
Asotin Member—Swanson and others, 1979b; Reidel and Fecht, 1987
Wilbur Creek Member—Swanson and others, 1979b; Reidel and Fecht, 1987
Umatilla Member—Swanson and others, 1979b; Reidel and Fecht, 1987
Priest Rapids Member—Swanson and others, 1979b; Reidel and Fecht, 1981
Roza Member—Martin, 1987
Frenchman Springs Member—Beeson and others, 1985
Eckler Mountain Member—Swanson and others, 1979b; Hooper and Swanson, 1989

Grande Ronde magnetostratigraphic units—Reidel and others, this volume
Prineville basalt—J. L. Anderson and M. H. Beeson, unpublished data; Smith, 1986
Picture Gorge Basalt—Bailey, 1986
Imnaha Basalt—Hooper and others, 1984
Craigmont, Swamp Creek, Grangeville, Icicle Flat, Onaway members and basalt of Feary Creek—Camp, 1981
basalt of Cuddy Mountain and Weiser basalt—Fitzgerald, 1984
Sources used to compile isotopic ages:
Lower Monumental, Elephant Mountain, and Pomona Members—McKee and others, 1977
Priest Rapids Member—Rockwell Hanford Operations, unpublished data, 1982
basalt of Sand Hollow—Beeson and others, 1985
Grande Ronde Basalt—Long and Duncan, 1983
Imnaha Basalt—McKee and others, 1981