GSA Data Repository Item # 8408	
Title of article Intracanyon flows of the Columbia River Basalt Group in	-
the lower Columbia River Gorge and their relationship to the Troutdale Format	ion -
Author(s) T. L. Tolan et al.	
see GSA Bulletin v. 95 , p. 463 - 477	
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Tables 4 and 5	

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TABLE 4. Bulk clast composition (in %) of conglomerates from the Troutdale Formation as determined by pebble counts.

Sample Number	1	2	3	4	5	6	7	8	9		
Constituents											
Columbia River	55.8	76.4	67.7	14.8	64.8	75.7	31.8	30.9	9.5		
Basalt	14.1	10.6	8.0	6.0	12.0	8.1	68.2	65.5	88.6		
Andesite	6.1	3.3	9.0	9.3	6.8	2.0	0.0	0.0	0.0		
Dacite	0.0	0.0	0.0	65.4	0.0	0.0	.0.0	0.0	0.0		
Rhyolite	1.8	0.8	0.6	0.0	1.8	0.7	0.0	0.0	0.0		
Granitic	0.7	0.0	1.6	0.0	1.3	0.0	0.0	0.0	0.0		
Quartzite	9.2	5.6	7.7	3.9	7.6	8.8	0.0	0.0	0.0		
Cryptocrystallinguartz	ne 8.0	3.3	5.0	0.6	5.7	4.7	0.0	3.6	1.9		
Other	4.3	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0		
Sample No.	clasts cou	nted	Member		Location						
1	163		lower		Collecte unnamed Veil, Or	stream v	alley so	uth of B	ridal		
2	123		lower			Collected at the 152-m elevation in unnamed stream valley south of Bridal Veil, Oregon(SW NE Sec. 22, T1N, R5E)					
3	313		lower		Collecte Palmer M			levation	on		
4	182		lower (lahar)		Collecte unnamed Veil, Or	stream v	alley so	uth of B	ridal		
5	159	(tr	upper ansition	al)	Collecte Highway (NW SW SW	14 west	of Cape	Horn, Wa			
6	148	(tr	upper (transitional)			Collected at the 213-m elevation on east side of Crown Point, Oregon, alo the Old Scenic Highway(NE & SW & sec. T1N, R5E)					
7	66		upper			e of Cro Scenic H	213-m e wn Point ighway(N lies Bor	, Oregon Wł SWł s	kalong sec. 30,		
8	55		upper			Collected at the 213-m elevation on the west side of Crown Point, Oregon along the Old Scenic Highway(NW SW sec. 30, T1N, R5E). Foreset-bedded conglomerate					
9	105		upper		Collecte Palmer M			levation	n on		

TABLE 5. Bulk mineral composition (in %) of sandstones from the Troutdale Formation as determined by petrographic point counts of thin sections*.

Sample Number	1	2	3	4	5	6	7	8	9**	10**	11**
Constituent											
Quartz	12.2	16.4	15.6	0.6	0.4	0.0	2.8	6.0	13	29	29
Plagioclase	32.8	30.4	26.2	0.8	0.6	0.0	16.8	5.0	20	18	17
K - feldspar	22.6	20.2	12.0	0.0	0.0	0.0	2.0	5.4	7	10	13
Lithic fragments	16.6	14.8	23.0	97.2	96.4	99.0	66.4	71.6	56	35	32
Opaque minerals	1.0	2.0	4.2	0.6	0.0	0.0	2.0	1.8	1	4	5
Mafic minerals	10.2	12.4	16.2	0.4	2.4	0.8	8.4	8.6	4	5	4
Mica	4.6	3.8	2.8	0.4	0.2	0.2	1.6	1.6	-	-	_

^{* 500} grains counted per sample.

^{**} Modern-day Columbia River bottom sediment provide for comparison. From Whetten and others (1969). Location of samples, 9 - below Bonneville Dam; 10 - from Bonneville reservior; 11 - from The Dalles reservior. Bulk mineral compositions for these samples is based on 250 grains counted per sample.

Sample Number	Member	Location
1	lower	Collected at the 61-m elevation in the unnamed stream valley south of the town of Bridal Veil, Oregon(SW $_2$ NE $_3$ sec. 22, T1N, R5E).
2	lower	Collected at the 240 m elevation on Palmer Mill Road
3	lower	Collected at the 95-m elevation below Highway 14 west of Cape Horn, Washington(NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 17, T1N, R5E).
4	upper (vitric)	Collected at the 329-m elevation on Palmer Mill Road
5	upper (vitric)	Collected at the 366-m elevation on Multnomah Creek Trail (Trail No. 441; SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 18, T1N, R6E).
6	upper (vitric)	Collected at the 183-m elevation on Chanticleer Point Road (NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 25, TiN, R4E)
7	upper (lithic)	Collected at the 329-m elevation on Palmer Mill Road
8	upper (lithic)	Collected at the 18-m elevation at the Stark Street Bridge, lower Sandy River, Oregon(SW NE sec. 6, T1S, R4E)