

AN ILLUSTRATION OF EXACT MEASUREMENTS FOR COLUMNS, ROWS, AND TEXT SIZE FOR TABLES MADE IN EXCEL FOR IMPORT INTO ADOBE ILLUSTRATOR TABLE TEMPLATES

Column widths in Excel

Font: Optima  
6 pt.  
(No matter what Loudon tells you!)

Row height in Excel is 15.

Table 1. Major oxide and trace element chemistry of basalt samples collected in the Mystery quadrangle.					Major elements in weight percent										Trace elements in parts per million																	
Sample number	Latitude	Longitude	Unit name	Map unit	SiO <sub>2</sub>	TiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	FeO*	MnO	MgO	CaO	Na <sub>2</sub> O	K <sub>2</sub> O	P <sub>2</sub> O <sub>5</sub>	Ni	Cr	Sc	V	Ba	Rb	Sr	Zr	Y	Nb	Ga	Cu	Zn	Pb	La	Ce	Th	Nd
06JK250	45.72678	-116.33594	basalt of Grangeville	Tgv	52.62	1.306	15.61	8.68	0.167	7.12	11.25	2.35	0.73	0.163	63	218	32	229	282	14	246	115	23	10.6	18	67	80	3	15	31	3	18
07JK026	45.74682	-116.27807	basalt of Grangeville	Tgv	52.19	1.316	15.46	10.21	0.237	6.40	10.92	2.45	0.67	0.158	59	190	33	233	294	14	243	119	24	11.5	18	66	79	3	18	33	3	18
07KS017B	45.72749	-116.35574	Imnaha Basalt	Tim	51.02	2.192	13.87	13.34	0.232	5.51	9.77	2.89	0.86	0.304	39	65	43	404	332	18	289	159	38	9.3	20	189	117	3	12	34	4	23
08JK003	45.70025	-116.29253	R1 Grande Ronde Basalt	Tgr <sub>1</sub>	53.62	2.417	14.52	11.57	0.210	4.28	8.72	3.15	1.11	0.407	20	30	33	338	550	36	355	194	36	11.8	19	83	125	7	28	45	4	28
08JK008	45.68728	-116.35486	basalt of Grangeville	Tgv	53.24	1.340	15.68	8.78	0.178	6.09	11.33	2.42	0.77	0.165	46	193	34	237	262	17	243	122	23	11.3	18	69	81	3	16	34	2	18
08JK010	45.71336	-116.34423	R1 Grande Ronde Basalt	Tgr <sub>1</sub>	55.01	2.408	14.41	10.56	0.172	3.83	8.53	3.07	1.61	0.402	18	31	34	340	662	41	350	194	35	11.7	20	73	124	7	27	50	3	29
08JK013	45.68213	-116.30558	R1 Grande Ronde Basalt	Tgr <sub>1</sub>	52.95	2.505	14.38	11.58	0.234	4.96	9.15	3.06	0.82	0.360	16	56	35	346	455	31	344	185	33	12.7	20	45	123	6	24	48	4	26
08JK030	45.71032	-116.28529	R2 Grande Ronde Basalt	Tgr <sub>2</sub>	56.09	2.290	13.92	11.57	0.219	3.34	7.06	3.30	1.71	0.493	3	9	30	315	841	45	373	193	38	12.4	21	15	131	9	32	57	5	34
08JK034	45.71027	-116.2959	basalt of Grangeville	Tgv	52.27	1.283	15.65	8.62	0.160	7.40	11.47	2.34	0.65	0.159	63	254	33	230	257	12	244	111	22	9.7	17	72	80	3	16	32	1	17
08JK041	45.70177	-116.29559	Imnaha Basalt	Tim	50.16	2.193	15.96	11.35	0.176	6.61	9.71	2.98	0.62	0.261	103	123	31	311	244	13	370	144	29	9.6	19	56	102	3	16	32	1	22
08JK044	45.69101	-116.27223	R2 Grande Ronde Basalt	Tgr <sub>2</sub>	56.46	2.244	13.85	11.09	0.206	3.31	6.98	3.24	2.14	0.482	1	9	32	316	751	52	362	190	36	12.5	19	17	128	10	33	64	6	34
08JK045	45.69082	-116.27153	N1 Grande Ronde Basalt	Tgn <sub>1</sub>	55.81	2.168	13.75	12.15	0.261	3.08	6.90	3.50	1.96	0.426	5	9	32	390	736	57	307	188	38	11.3	19	16	133	6	26	53	4	28
08JK048	45.69077	-116.30297	R1 Grande Ronde Basalt	Tgr <sub>1</sub>	54.15	2.445	13.99	11.92	0.205	4.15	8.13	3.16	1.48	0.373	8	17	33	355	525	40	344	206	37	12.6	21	43	126	5	25	50	2	31
08JK051	45.69419	-116.29615	Imnaha Basalt	Tim	49.21	2.287	16.26	11.85	0.198	6.93	10.01	2.64	0.35	0.269	122	223	30	291	225	4	339	144	29	9.5	19	121	102	1	15	30	0	22
08JK054	45.64765	-116.28608	R1 Grande Ronde Basalt	Tgr <sub>1</sub>	54.54	2.319	14.39	10.51	0.163	4.42	8.81	3.09	1.43	0.329	19	62	33	324	493	37	330	187	33	12.2	19	45	116	5	24	50	3	29
08JK057	45.64465	-116.28309	R1 Grande Ronde Basalt	Tgr <sub>1</sub>	53.96	2.347	14.48	10.93	0.193	4.59	9.00	3.01	1.15	0.334	20	60	35	329	494	28	335	189	33	12.4	19	47	122	6	21	45	4	27
08JK076	45.65049	-116.26101	N1 Grande Ronde Basalt	Tgn <sub>1</sub>	55.58	2.158	13.79	12.02	0.211	3.58	7.31	3.10	1.84	0.427	6	9	32	348	693	39	304	184	39	11.3	19	21	127	7	27	53	3	29
08JK084	45.6391	-116.27904	R1 Grande Ronde Basalt	Tgr <sub>1</sub>	54.00	2.499	13.98	12.09	0.208	4.18	8.16	3.32	1.19	0.368	5	14	32	363	526	39	346	203	35	12.9	21	36	126	6	24	46	3	28
08JK088	45.67728	-116.33933	Imnaha Basalt	Tim	49.60	2.138	16.38	11.39	0.192	6.85	10.19	2.72	0.28	0.251	98	133	33	304	207	2	357	134	27	7.8	19	101	95	0	14	26	0	19
08JK114	45.69515	-116.32849	Columbia River basalt dike	Tcrb <sub>d</sub>	49.89	2.767	13.98	13.23	0.220	5.42	10.71	2.35	0.80	0.623	36	86	41	344	457	21	242	216	45	20.7	19	57	131	5	38	72	3	39
08JK118	45.69222	-116.32484	Imnaha Basalt	Tim	50.46	2.422	16.71	10.43	0.145	5.28	10.56	3.01	0.69	0.305	125	225	32	308	266	14	386	166	33	10.7	22	130	113	3	16	32	2	21
08JK124	45.69894	-116.33024	Columbia River basalt dike	Tcrb <sub>d</sub>	49.51	2.674	14.07	13.36	0.240	5.70	10.86	2.44	0.54	0.602	39	86	40	324	417	15	237	206	42	20.0	19	55	129	5	31	69	3	39
08JK147	45.71691	-116.37421	Imnaha Basalt	Tim	49.44	2.242	16.17	11.46	0.184	7.47	9.44	2.69	0.64	0.276	120	210	31	279	234	14	320	147	29	8.4	18	128	101	0	17	32	0	21
08JK149	45.71222	-116.36656	Imnaha Basalt dike	Tim	51.37	1.373	15.24	11.63	0.214	6.24	10.13	2.79	0.72	0.292	34	107	42	341	307	31	332	94	29	5.0	16	115	102	2	15	26	0	16
08JK153	45.72913	-116.33643	basalt of Craigmont	Tcg	53.51	3.029	13.60	13.17	0.208	3.42	7.62	2.94	1.93	0.582	15	9	29	318	802	49	289	270	46	25.1	21	26	137	9	49	91	6	46
08DG001	45.68135	-116.30168	R1 Grande Ronde Basalt	Tgr <sub>1</sub>	54.05	2.332	14.23	10.88	0.166	4.76	8.84	3.05	1.35	0.341	21	63	34	332	478	37	335	185	33	12.5	20	48	121	5	23	44	3	26
08DG002	45.68184	-116.30216	Imnaha Basalt	Tim	50.20	2.212	16.60	10.95	0.137	5.92	10.48	2.85	0.37	0.272	106	131	32	315	220	2	383	142	28	9.0	18	97	102	1	15	28	1	20
08DG003	45.67935	-116.30349	R1 Grande Ronde Basalt	Tgr <sub>1</sub>	54.26	2.359	14.18	11.66	0.200	4.01	8.36	3.13	1.44	0.394	20	30	32	328	523	48	342	191	35	11.9	19	78	121	6	24	49	3	29
08DG804	45.6998	-116.32409	Imnaha Basalt	Tim	49.04	2.670	15.77	12.97	0.192	6.09	8.73	3.22	0.95	0.365	109	95	30	290	331	23	364	205	36	13.2	22	97	130	3	19	44	2	27
08DG805	45.70011	-116.32423	Imnaha Basalt	Tim	49.47	2.337	15.64	12.02	0.196	6.75	9.65	2.92	0.70	0.312	126	207	31	297	265	16	358	170	33	10.4	21	144	115	2	19	36	2	25
08DS020	45.64336	-116.34257	leucocratic metatonalite	Pmt	72.79	0.444	13.05	3.80	0.109	1.48	4.62	3.11	0.50	0.092	1	6	15	87	135	9	269	72	18	2.3	11	0	33	1	5	11	0	9
08DS023	45.64312	-116.34264	basaltic andesite (in metatonalite)	Pmt	52.27	1.057	17.80	9.82	0.190	6.93	9.46	2.20	0.04	0.239	38	106	35	291	32	1	278	69	21	0.6	14	67	87	0	6	15	0	12
VC79-525	45.71859	-116.31242	R1 Grande Ronde Basalt	Tgr <sub>1</sub>	53.21	2.49	14.35	12.84	0.22	4.02	7.82	2.85	1.66	0.35																		

\* Major elements are normalized on a volatile-free basis, with total Fe expressed as FeO.  
All analyses performed at Washington State University GeoAnalytical Laboratory, Pullman, Washington.