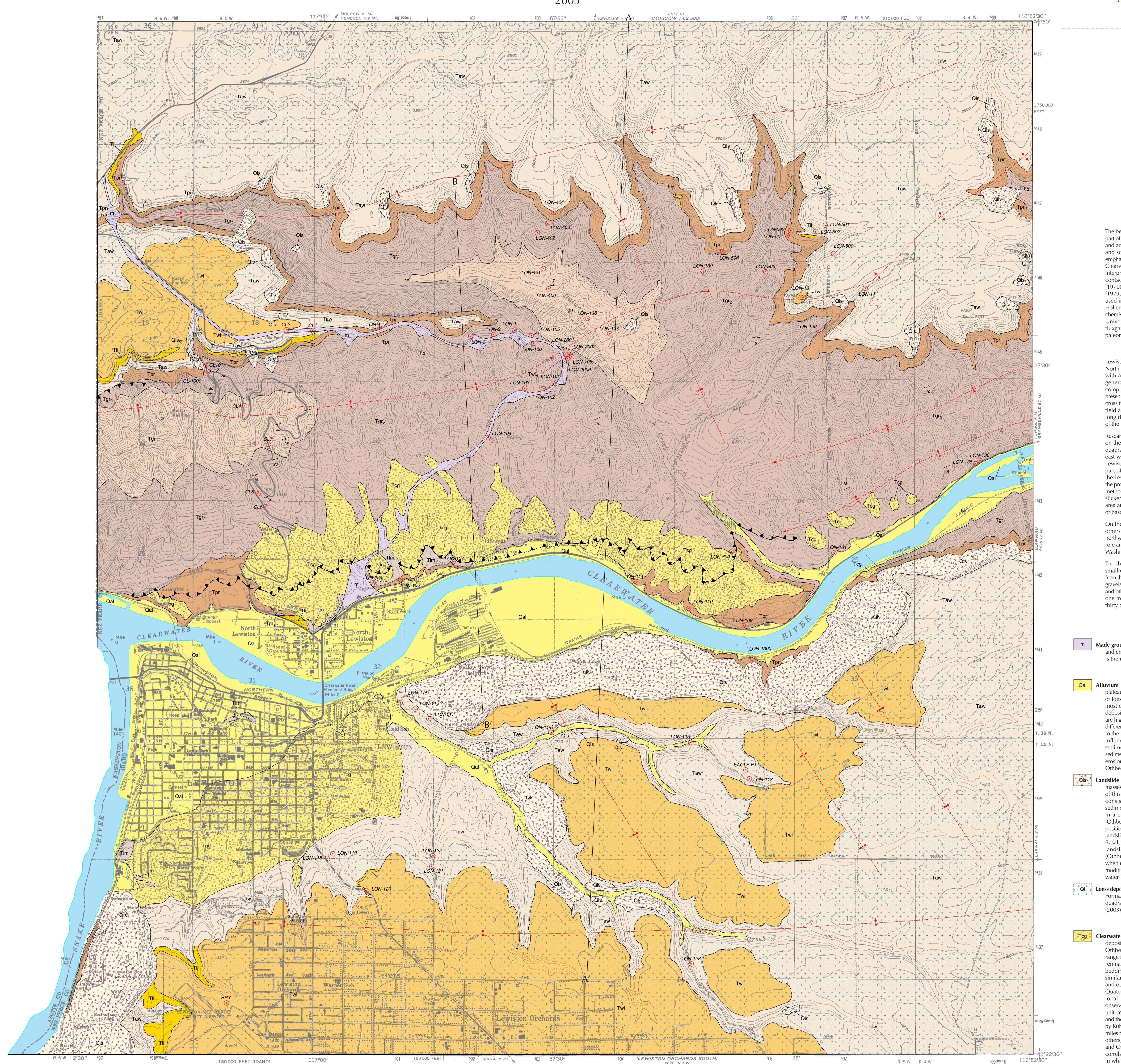


GEOLOGIC MAP OF THE LEWISTON ORCHARDS NORTH QUADRANGLE AND PART OF THE CLARKSTON QUADRANGLE, NEZ PERCE COUNTY, IDAHO

Compiled and Mapped by
Dean L. Garwood and John H. Bush

2005

Disclaimer: This Digital Web Map is an informal report and may be revised and formally published at a later time. Its content and format may not conform to agency standards.



Base map from IUGS digital raster graphic 1971 (Clarkston), 1972 (Lewiston Orchards).

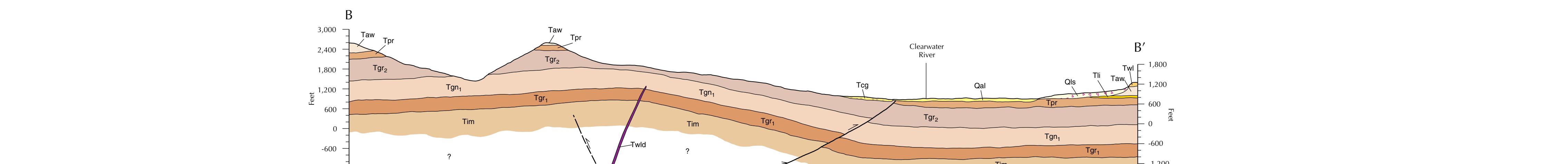
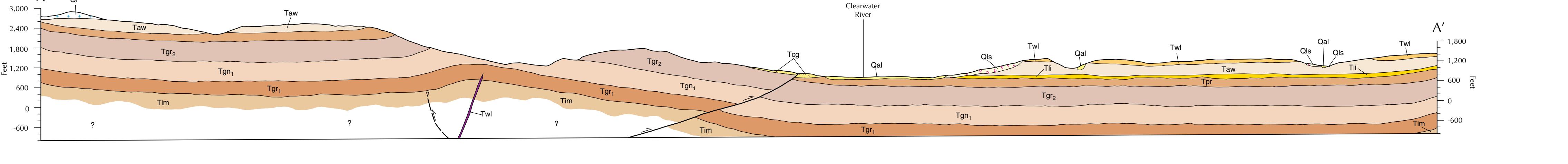
Topography by photogrammetric methods from aerial photographs taken 1966. Field checked 1967.

North American Datum.

Projection and 10,000-foot grid ticks based on Idaho coordinate system; west zone.

1000-meter Universal Transverse Mercator grid ticks, zone 11.

National geodetic vertical datum of 1929.



CORRELATION OF MAP UNITS

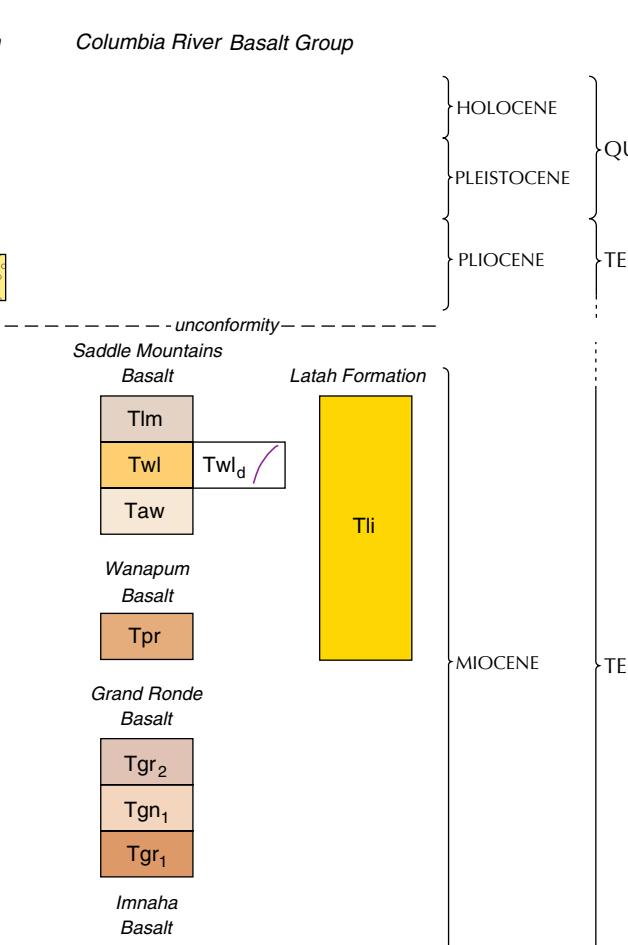


Table 1. Major oxide and trace element chemistry of basalt samples collected on the Lewiston Orchards North and Clarkston quadrangles.

Sample Number	Latitude	Longitude	Unit name	Map Units	Normalized major elements in weight percent										Unnormalized trace elements in parts per million															
					SiO ₂	Al ₂ O ₃	TiO ₂	Fe ₂ O ₃	MnO	CaO	MgO	K ₂ O	Na ₂ O	P ₂ O ₅	Si	Ti	V	Nb	Ga	Cu	Zn	Pb	Cr	Ti						
CL1	46.30124	-117.0516	Lewiston Orchards	Taw	50.58	16.04	1.413	9.16	0.156	11.41	8.21	0.51	2.31	0.16	10.284	321	156	8.243	44	321	499	8	243	184	44	20.55	21	50.121	1	
CL2	46.46269	-117.0057	Lewiston Orchards	Taw	49.49	15.08	2.170	10.84	0.205	11.31	7.71	0.40	2.47	0.59	7.1	269	39	274	382	3	249	151	37.19	105	2	13	44	4		
CL3	46.4557	-117.0166	Grande Ronde R.	Tgy	55.43	13.06	2.554	11.97	0.192	7.33	3.26	1.86	0.30	0.466	2	27	24	386	890	48	323	191	20	14.18	21	20	132	1		
CL4	46.4535	-117.0130	Grande Ronde R.	Tgy	55.49	14.00	2.001	10.05	0.215	7.96	4.19	1.51	3.32	0.375	5	52	35	387	529	32	29	164	19	32.13	22	42	127	8		
CL5	46.44284	-117.0108	Grande Ronde R.	Tgy	55.51	13.70	2.452	12.13	0.197	6.93	3.33	2.12	3.10	0.463	8	21	30	367	573	33	313	204	20	28	132	1	9	21	63	
CL6	46.44132	-117.0094	Grande Ronde R.	Tgy	55.04	13.77	2.350	11.99	0.224	7.53	3.60	1.77	3.20	0.459	37	28	36	378	699	42	322	183	40	11.3	20	43	131	7	25	50
CL7	46.44081	-117.0084	Grande Ronde R.	Tgy	54.38	13.70	2.304	12.26	0.216	8.00	3.95	1.46	3.09	0.439	8	37	34	300	574	35	318	163	20	28	129	1	11	58	5	
CL10	46.45831	-117.0198	Grande Ronde R.	Tgy	53.16	14.13	2.048	11.94	0.194	9.12	5.13	1.20	2.56	0.271	22	35	316	481	28	304	140	39	11.7	20	57	105	3	25	41	
CL100	46.45721	-117.0119	Grande Ronde R.	Tgy	53.80	14.00	1.649	9.90	0.178	9.96	5.54	0.95	2.95	0.264	30	12	40	309	469	16	307	131	20	26	100	3	16	24	1	
CLON	46.45596	-116.0556	Grande Ronde R.	Tgy	56.67	13.99	2.170	10.73	0.185	7.31	3.31	1.82	2.00	0.260	0	18	37	354	688	46	332	194	44	15.2	14	20	114	5	29	8
CLON-2	46.46303	-116.0482	Grande Ronde R.	Tgy	55.35	13.70	2.532	11.81	0.195	7.05	3.40	1.72	3.42	0.469	8	18	40	399	665	47	307	186	44	15.2	14	20	127	7	27	55
CLON-3	46.44973	-116.0732	Grande Ronde R.	Tgy	44.89	14.17	2.160	10.62	0.184	7.90	4.12	1.30	2.62	0.479	20	76	44	329	437	22	286	142	22	22	56	106	3	22	37	
CLON-4	46.46269	-116.0898	Priest Rapids	Tgy	50.70	13.60	2.322	13.13	0.238	9.18	5.20	1.10	2.80	0.784	30	91	41	363	488	25	283	179	37	17.1	1	63	1	1	63	
CLON-10	46.46667	-116.0516	Lewiston Orchards	Tgy	48.71	15.00	2.211	12.19	0.200	7.68	6.81	0.84	2.44	0.514	77	26	37	288	642	6	254	187	44	18.7	20	121	2	42	52	
CLON-11	46.46616	-116.0436	Grande Ronde R.	Tgy	50.08	16.20	1.942	9.45	0.156	11.37	8.31	0.54	2.50	0.406	5	29	33	330	590	42	342	163	15.5	20	16	76	3	19	5	
CLON-100	46.45567	-116.0607	Grande Ronde R.	Tgy	55.16	13.00	2.004	11.55	0.222	7.95	4.15	1.46	3.07	0.459	2	31	35	387	605	33	311	163	41	12.7	22	49	12	4	53	6
CLON-101	46.45516	-116.0730	Grande Ronde R.	Tgy	55.17	13.74	2.077	12.23	0.184	7.95	4.19	1.40	3.35	0.355	0	32	33	335	537	31	312	163	21	22	61	2	38	14	1	
CLON-102	46.45514	-116.0619	Grande Ronde R.	Tgy	44.96	14.14	2.047	12.21	0.194	7.91	5.13	1.24	2.60	0.260	4	13	36	300	478	27	239	141	19	16.7	19	39	136	1	5	53
CLON-103	46.45545	-116.0842	Grande Ronde R.	Tgy	55.38	13.08	2.012	12.20	0.200	7.88	4.07	1.35	3.14	0.392	1	2	38	366	577	38	314	196	41	12.9	23	48	124	6	26	44
CLON-104	46.44973	-116.0702	Grande Ronde R.	Tgy	54.62	13.44	2.126	12.28	0.208	7.49	4.12	1.32	3.32	0.362	0	35	349	514	34	311	160	42	10	11	61	4	44	6		
CLON-105	46.45324	-116.0825	Grande Ronde R.	Tgy	54.73	13.62	2.162	12.20	0.206	8.06	4.26	1.32	3.60	0.360	2	34	36</													