

Table 3: SHRIMP U-Pb zircon data from samples at Searles Ridge, northern Peninsular Ranges

Spot Name	Spot Location	whole grain or core?	Common			Total $^{238}\text{U}/^{206}\text{Pb}$	Error (%)	Total $^{207}\text{Pb}/^{206}\text{Pb}$	Error (%)	^{207}Pb -corr.			Rad $^{207}\text{Pb}/^{206}\text{Pb}$	Error (%)	Rad $^{207}\text{Pb}/^{235}\text{U}$	Error (%)	Rad $^{206}\text{Pb}/^{238}\text{U}$	Error (%)	Correl.	^{204}Pb -corr.			% Discordant			
			^{206}Pb (%)	U (ppm)	Th (ppm)					$^{206}\text{Pb}/^{238}\text{U}$ Age	Error (1s)	$^{206}\text{Pb}/^{238}\text{U}$ Age	Error (1s)							$^{207}\text{Pb}/^{206}\text{Pb}$	$^{207}\text{Pb}/^{235}\text{U}$	$^{206}\text{Pb}/^{238}\text{U}$ Age	Error (1s)			
NR 99-2																										
99-2-1	mag zone		0.15	496	101	0.21	30.30	0.8	0.0515	2.8	209.0	1.7	0.0495	4.2	0.22	4.2	0.0329	0.8	0.195							
99-2-2	indistinct zone		-0.10	264	136	0.53	5.38	0.7	0.0753	1.3	1099.7	7.3	0.0753	1.3	1.93	1.5	0.1858	0.7	0.448	1078	27	-2				
99-2-3	mag zone		0.31	229	100	0.45	26.95	1.2	0.0533	3.8	234.1	2.8	0.0486	7.7	0.25	7.8	0.0369	1.2	0.157							
99-2-4	mag zone		-0.05	565	158	0.29	3.35	0.4	0.1029	0.7	1685.5	7.4	0.1026	0.7	4.22	0.8	0.2986	0.4	0.544	1672	13	-1				
99-2-5	mag zone		0.19	377	54	0.15	23.59	0.9	0.0531	2.8	267.2	2.4	0.0469	7.5	0.27	7.6	0.0421	1.0	0.128							
99-2-6	mag zone		0.10	755	356	0.49	29.87	0.7	0.0512	2.2	212.0	1.4	0.0479	3.9	0.22	4.0	0.0333	0.7	0.172							
99-2-7	mag zone		0.96	152	162	1.10	4.57	0.9	0.0909	1.5	1263.6	10.9	0.0909	1.5	2.74	1.7	0.2187	0.9	0.504	1445	29	13				
99-2-8	light center, indistinct		-0.76	66	45	0.70	1.83	1.2	0.1933	1.0	2826.9	39.8	0.1920	1.1	14.44	1.6	0.5454	1.2	0.730	2759	18	-2				
99-2-9	mag zone		-0.19	351	109	0.32	3.30	0.6	0.1031	0.8	1709.1	9.4	0.1026	0.9	4.29	1.0	0.3029	0.6	0.544	1672	16	-2				
99-2-10	mag zone		0.06	392	278	0.73	3.39	0.5	0.1028	0.8	1666.2	9.0	0.1022	0.9	4.15	1.0	0.2949	0.5	0.538	1664	16	0				
99-2-11	mag zone		-0.45	554	353	0.66	3.13	0.5	0.1059	0.6	1796.1	9.0	0.1056	0.6	4.65	0.8	0.3198	0.5	0.621	1724	12	-4				
99-2-12	mag zone		0.56	184	135	0.76	29.13	1.3	0.0549	5.5	216.4	2.8	0.0491	8.7	0.23	8.8	0.0341	1.3	0.151							
99-2-13	mag zone		0.24	679	283	0.43	30.55	0.7	0.0522	2.4	207.1	1.5	0.0522	2.4	0.24	2.6	0.0327	0.7	0.288							
99-2-14	mag zone		-0.30	269	105	0.40	3.16	0.7	0.1062	0.9	1779.1	11.6	0.1062	0.9	4.64	1.1	0.3169	0.7	0.573	1735	17	-2				
99-2-15	mag zone		0.55	184	74	0.42	29.41	1.5	0.0548	4.8	214.4	3.2	0.0548	4.8	0.26	5.0	0.0340	1.5	0.291							
99-2-16	mag zone		9.98	430	480	1.15	25.55	1.0	0.1305	11.5	223.2	5.1	0.0475	48.4	0.23	48.5	0.0351	2.3	0.048							
99-2-17	mag zone		0.25	342	157	0.48	26.86	1.0	0.0529	3.2	235.1	2.3	0.0529	3.2	0.27	3.4	0.0372	1.0	0.287							
99-2-18	mag zone		0.13	331	88	0.28	3.33	0.6	0.1048	0.9	1690.4	9.9	0.1048	0.9	4.34	1.0	0.3002	0.6	0.564	1711	16	1				
99-2-19	mag zone		0.04	308	249	0.84	28.61	1.0	0.0509	3.5	221.4	2.4	0.0509	3.5	0.25	3.7	0.0350	1.0	0.286							
99-2-20	dark CL center, mag		0.20	437	238	0.56	26.86	0.9	0.0524	2.9	235.2	2.1	0.0492	5.4	0.25	5.4	0.0371	0.9	0.168							
99-2-21	mag zone		0.19	158	64	0.42	3.42	0.9	0.1030	1.3	1649.2	14.5	0.1024	1.4	4.12	1.6	0.2919	0.9	0.541	1668	26	1				
99-2-22	mag zone		0.48	230	100	0.45	27.80	1.2	0.0546	4.0	226.7	2.8	0.0465	9.1	0.23	9.2	0.0356	1.3	0.142							
99-2-23	mag zone		0.22	198	61	0.32	3.34	0.8	0.1053	1.1	1685.5	12.6	0.1049	1.1	4.33	1.4	0.2993	0.8	0.556	1712	21	1				
99-2-24	mag zone		0.12	730	305	0.43	29.02	0.7	0.0515	2.3	218.1	1.5	0.0494	3.2	0.23	3.3	0.0344	0.7	0.213							
99-2-25	mag zone		0.45	224	71	0.33	3.48	0.7	0.1037	1.1	1620.0	11.6	0.1033	1.1	4.09	1.3	0.2869	0.7	0.555	1684	20	4				
99-2-26	mag zone		0.22	819	419	0.53	28.90	0.7	0.0522	2.3	218.8	1.5	0.0491	3.9	0.23	3.9	0.0345	0.7	0.179							
99-2-27	mag zone		0.71	199	59	0.30	31.85	1.4	0.0557	4.6	197.9	2.8	0.0512	7.6	0.22	7.8	0.0312	1.4	0.185							
99-2-28	dark mag zone		3.08	2288	662	0.30	6.61	0																		

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99-2-35	mag center	-0.02	1561	972	0.64	27.87	0.5	0.0505	1.5	227.3	1.0	0.0505	1.5	0.25	1.6	0.0359	0.5	0.286
99-2-36	mag zone	0.37	518	167	0.33	30.74	0.8	0.0532	2.7	205.6	1.7	0.0505	3.7	0.23	3.8	0.0324	0.8	0.218
99-2-37	mag zone	0.41	953	289	0.31	29.41	0.7	0.0537	2.2	214.7	1.4	0.0537	2.2	0.25	2.3	0.0340	0.7	0.288
99-2-38	mag zone	0.40	586	324	0.57	3.40	0.5	0.1052	0.7	1656.0	7.9	0.1050	0.7	4.26	0.9	0.2940	0.5	0.562
99-2-39	mag zone	0.33	239	103	0.45	26.88	1.5	0.0535	4.2	234.7	3.5	0.0463	9.3	0.24	9.4	0.0369	1.5	0.163
99-2-40	mag zone	0.13	577	260	0.47	28.49	0.8	0.0516	2.6	222.1	1.8	0.0502	3.2	0.24	3.3	0.0350	0.8	0.237

NR 99-3

99-3-1	mag zone	0.54	133	62	0.48	4.17	0.9	0.0925	1.6	1378.9	12.8	0.0867	2.9	2.85	3.1	0.2382	1.0	0.318	1354	56	-2
99-3-2	mag zone	-0.13	337	91	0.28	4.15	0.6	0.0874	1.0	1393.2	8.2	0.0871	1.0	2.89	1.2	0.2409	0.6	0.498	1363	20	-2
99-3-3	mag zone	0.44	255	101	0.41	7.53	0.8	0.0695	2.1	800.5	6.0	0.0638	3.9	1.16	4.0	0.1319	0.8	0.201	736	82	-8
99-3-4	mag zone	0.40	455	183	0.42	3.24	0.5	0.1094	0.7	1730.2	8.1	0.1082	0.8	4.60	1.0	0.3087	0.5	0.489	1769	15	2

Spot Name	Spot Location	whole grain or core?	Common ^{206}Pb (%)	U (ppm)	Th (ppm)	$^{232}\text{Th}/^{238}\text{U}$	Total $^{238}\text{U}/^{206}\text{Pb}$	Error (%)	Total $^{207}\text{Pb}/^{206}\text{Pb}$	Error (%)	^{207}Pb -corr.			^{207}Pb -corr.			^{204}Pb -corr.			% Dis-		
											$^{206}\text{Pb}/^{238}\text{U}$	Age	Error (1s)	$^{207}\text{Pb}/^{206}\text{Pb}$	Rad	$^{207}\text{Pb}/^{235}\text{U}$	Rad	$^{206}\text{Pb}/^{238}\text{U}$	Error (%)	Error Correl.	cor-dant	
NR 99-5																						
99-5-1	mag center		0.71	428	68	0.16	3.60	0.5	0.1034	1.1	1571.5	8.1	0.1024	1.2	3.92	1.3	0.2777	0.5	0.389	1669	23	6
99-5-2	mag center		0.30	1032	839	0.84	76.70	0.9	0.0501	3.2	83.2	0.7	0.0453	6.4	0.08	6.4	0.0130	0.9	0.142			
99-5-3	mag center		0.06	628	312	0.51	3.20	0.4	0.1076	0.8	1749.8	7.2	0.1062	0.9	4.56	1.0	0.3116	0.4	0.436	1736	16	-1
99-5-4	mag zone		0.04	343	123	0.37	3.34	0.5	0.1039	0.8	1688.1	9.1	0.1031	0.9	4.25	1.0	0.2992	0.5	0.523	1681	16	0
99-5-5	mag center		0.13	761	382	0.52	88.28	1.1	0.0485	3.5	72.5	0.8	0.0385	14.3	0.06	14.4	0.0112	1.2	0.087			
99-5-6	light mag zone		0.29	124	46	0.38	4.11	1.0	0.0913	1.7	1400.1	13.3	0.0835	3.7	2.77	3.8	0.2411	1.0	0.266	1280	72	-8
99-5-7	dark mag center		1.60	1610	168	0.11	4.02	0.3	0.1030	0.4	1412.3	4.3	0.1027	0.4	3.53	0.5	0.2488	0.3	0.567	1674	8	17
99-5-8	dark mag zone		0.31	214	53	0.25	5.08	0.7	0.0809	1.3	1155.9	7.7	0.0805	1.3	2.18	1.5	0.1969	0.7	0.450	1209	27	4
99-5-9	dark mag zone		0.41	631	117	0.19	4.38	0.4	0.0888	0.7	1321.7	5.0	0.0866	1.0	2.72	1.1	0.2279	0.4	0.368	1351	19	2
NR 99-6																						
99-6-1	mag center		1.19	167	201	1.25	3.87	0.8	0.1020	1.2	1464.4	11.6	0.0872	3.5	3.05	3.6	0.2537	0.9	0.243	1365	67	-6
99-6-2	mag center or core		0.04	381	192	0.52	28.73	0.9	0.0508	3.0	220.5	2.0	0.0508	3.0	0.24	3.1	0.0348	0.9	0.283			
99-6-3	mag zone		0.49	101	67	0.68	6.10	1.0	0.0757	2.2	974.4	10.0	0.0738	2.6	1.67	2.8	0.1636	1.1	0.377	1036	52	6
99-6-4	dark mag zone		0.25	3465	379	0.11	17.28	0.3	0.0558	0.7	361.8	1.0	0.0540	1.2	0.43	1.2	0.0577	0.3	0.237	372	26	
NR 99-7																						
99-7-1	mag core		0.66	399	199	0.51	3.52	0.5	0.1046	0.7	1603.7	7.9	0.1043	0.8	4.09	0.9	0.2842	0.5	0.547	1703	14	6
99-7-2	mag core		0.18	933	62	0.07	3.44	0.3	0.1026	0.5	1643.7	5.5	0.1023	0.5	4.10	0.6	0.2909	0.3	0.539	1667	10	1
99-7-3	mag core		1.35	610	35	0.06	4.12	0.4	0.0996	0.7	1383.7	5										

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99-7-4	mag center	0.68	241	41	0.17	3.52	0.6	0.1048	0.9	1603.1	9.9	0.1042	1.0	4.08	1.2	0.2841	0.6	0.536	1699	18	5
99-7-5	core?	2.67	543	40	0.08	9.58	0.5	0.0824	1.3	623.8	3.3	0.0819	1.4	1.18	1.5	0.1043	0.5	0.362	1242	27	94
99-7-6	mag center	-0.02	927	328	0.37	25.04	0.6	0.0511	1.9	252.5	1.5	0.0494	3.1	0.27	3.1	0.0399	0.6	0.189			
99-7-7	dark core or center	0.27	1870	20	0.01	3.61	0.3	0.0997	0.6	1573.5	4.5	0.0996	0.6	3.81	0.7	0.2772	0.3	0.437	1617	11	3
99-7-8	mag zone	0.00	906	623	0.71	32.77	0.7	0.0500	2.5	193.8	1.4	0.0488	3.0	0.20	3.1	0.0305	0.7	0.234			
99-7-9	mag center	-0.08	554	662	1.24	24.32	0.8	0.0508	2.5	260.0	2.0	0.0496	3.0	0.28	3.1	0.0411	0.8	0.248			
99-7-10	dark zone	0.53	3235	125	0.04	4.50	0.2	0.0883	0.4	1286.8	2.5	0.0882	0.4	2.70	0.4	0.2221	0.2	0.488	1386	7	7
99-7-11	dark center	0.14	1803	179	0.10	12.39	0.3	0.0583	0.9	499.8	1.7	0.0583	0.9	0.65	1.0	0.0807	0.3	0.340	542	21	8
99-7-12	dark zone	0.14	457	100	0.23	28.60	1.0	0.0517	2.9	221.3	2.2	0.0501	3.7	0.24	3.8	0.0349	1.0	0.265			
99-7-13	light center	2.37	355	133	0.39	3.01	0.6	0.1315	0.7	1813.1	10.3	0.1311	0.7	6.01	0.9	0.3325	0.6	0.608	2113	13	14
99-7-14	core?	2.39	1035	278	0.28	5.03	0.4	0.0980	0.6	1142.9	4.3	0.0978	0.6	2.68	0.7	0.1987	0.4	0.553	1583	11	35
99-7-15	convoluted zone	0.93	695	133	0.20	2.50	0.4	0.1421	0.4	2148.8	8.1	0.1420	0.4	7.82	0.6	0.3993	0.4	0.655	2251	7	4
99-7-16	mag core or center	0.26	61	112	1.90	4.04	1.4	0.0922	2.3	1423.5	19.3	0.0894	2.8	3.04	3.1	0.2470	1.4	0.443	1413	54	-1
99-7-17	light core	2.35	266	132	0.51	7.99	0.8	0.0835	1.6	743.6	5.6	0.0835	1.6	1.44	1.8	0.1252	0.8	0.421	1280	32	68
99-7-18	convoluted zone	0.79	108	153	1.47	4.42	0.9	0.0913	1.5	1306.1	11.1	0.0899	1.7	2.80	1.9	0.2260	0.9	0.456	1424	32	8
99-7-19	indistinct core	0.38	1424	65	0.05	4.24	0.3	0.0902	0.5	1360.1	3.8	0.0901	0.5	2.93	0.6	0.2358	0.3	0.500	1428	9	5
99-7-20	mag zone	0.47	566	86	0.16	3.51	0.4	0.1033	0.6	1609.6	6.8	0.1032	0.7	4.05	0.8	0.2849	0.4	0.549	1682	12	4
99-7-21	core or center	2.28	1140	116	0.11	9.69	0.4	0.0791	1.4	619.5	2.8	0.0784	1.4	1.12	1.5	0.1031	0.4	0.292	1158	29	83
99-7-22	mag core or center	0.02	109	97	0.92	3.39	1.0	0.1024	1.4	1664.8	15.7	0.1010	1.7	4.10	1.9	0.2942	1.0	0.495	1643	31	-1
99-7-23	dark mag zone	0.74	1663	690	0.43	21.78	0.4	0.0580	1.2	287.3	1.1	0.0542	2.4	0.34	2.5	0.0457	0.4	0.169			
99-7-24	mag zone	2.14	539	158	0.30	7.37	0.6	0.0837	1.1	804.0	4.7	0.0827	1.2	1.55	1.4	0.1356	0.6	0.439	1261	24	54
99-7-25	mag zone	2.87	456	214	0.48	11.44	0.6	0.0812	1.5	525.2	3.3	0.0794	1.9	0.95	2.0	0.0872	0.6	0.313	1181	38	
99-7-26	light mag zone?	0.87	61	123	2.08	4.41	1.2	0.0921	2.1	1308.3	15.7	0.0878	3.3	2.73	3.5	0.2258	1.2	0.353	1378	64	5
99-7-27	distinct core, convoluted	0.63	907	260	0.30	3.97	0.3	0.0961	0.5	1440.9	4.8	0.0959	0.6	3.33	0.7	0.2520	0.3	0.516	1546	11	7

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											Age	$^{206}\text{Pb}/^{238}\text{U}$	Error (1s)	$^{207}\text{Pb}/^{206}\text{Pb}$	Error (%)	Correl.	
NR 99-11b pegmatite																	
11B-1	light core or center	core	0.80	11363	135	0.01	55.60	1.1	0.0547	1.2	114.0	1.3	0.0501	2.5			
11B-2	light core or center	core	1.87	9134	45	0.01	58.46	1.9	0.0630	3.1	107.3	2.1	0.0536	5.6			
11B-3	metamict zone	whole	0.40	13144	131	0.01	52.12	1.4	0.0517	1.1	122.0	1.7	0.0490	1.9			
11B-4	metamict zone	whole	0.61	9441	107	0.01	58.46	1.3	0.0530	1.4	108.7	1.5	0.0461	4.3			
11B-5	dark core or center	core	0.49	10927	63	0.01	56.57	1.4	0.0521	1.3	112.4	1.5	0.0488	2.5			
11B-6.1	dark core or center	whole	0.38	12812	127	0.01	55.49	1.1	0.0514	1.2	114.7	1.3	0.0429	12.7			

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11B-6.2	dark rim	rim	0.47	14425	126	0.01	58.57	1.1	0.0519	1.1	108.6	1.2	0.0492	2.1								
11B-7	lighter core or center	core	2.94	8000	50	0.01	71.31	1.2	0.0711	9.0	87.2	1.2	0.0465	22.6								
11B-8	lighter core or center	core	3.79	7526	127	0.02	63.53	1.2	0.0781	3.4	96.9	1.2	0.0543	8.4								
11B-9	dark center	whole	3.29	18186	405	0.02	65.88	1.4	0.0740	3.0	93.9	1.4	0.0471	7.8								
NR 99-14																						
14-1	convoluted zone / rim		-0.04	1680	1278	0.79	56.27	1.5	0.0480	4.2	113.6	1.8	0.0419	8.7								
14-2	mag center		0.49	1094	750	0.71	61.75	1.6	0.0520	5.0	103.0	1.7	0.0469	9.0								
14-3	mag zone		0.36	604	235	0.40	62.75	2.0	0.0509	7.0	101.6	2.1	0.0509	7.0								
14-4	dark convoluted zone		-0.12	2584	2731	1.09	58.52	1.3	0.0472	3.3	109.4	1.5	0.0472	3.3								
14-5	light convoluted zone		-0.06	266	163	0.63	59.75	2.7	0.0477	11.0	107.0	3.0	0.0477	11.0								
14-6	dark convoluted zone		0.27	2506	2160	0.89	62.08	1.3	0.0502	3.2	102.7	1.4	0.0482	4.3								
14-7	dark convoluted zone		0.23	1042	919	0.91	61.12	1.6	0.0499	4.8	104.4	1.7	0.0437	11.9								
14-8	dark convoluted zone		0.08	1264	631	0.52	62.26	1.6	0.0487	4.6	102.6	1.7	0.0448	7.5								
NR 99-16																						
99-16-2	indistinct center		0.33	115	32	0.28	5.54	1.0	0.0776	2.3	1065.7	10.6	0.0766	2.5	1.90	2.7	0.1801	1.0	0.376	1110	50	4
99-16-3	mag zone		0.02	991	639	0.67	9.94	0.4	0.0606	1.0	618.0	2.5	0.0591	1.4	0.82	1.5	0.1005	0.4	0.274	570	31	-8
NR 99-18																						
18-1	mag zone, mixed	mixed	2.26	385	50	0.13	4.37	1.3	0.1037	1.5	1302.5	16.2	0.1037	1.5	3.27	2.0	0.2291	1.3	0.652	1691	27	27
18-2.1	mag center	core	0.00	133	57	0.44	22.86	2.5	0.0518	8.0	276.0	6.9	0.0518	8.0	0.31	8.4	0.0437	2.5	0.296			
18-2.2	dark rim	rim	-0.30	583	5	0.01	52.01	1.1	0.0461	3.9	123.1	1.4	0.0431	6.1	0.11	6.2	0.0192	1.1	0.179			
18-3.1	indistinct center	core	0.53	54	55	1.05	5.25	2.3	0.0813	4.9	1117.9	24.9	0.0744	8.1	1.94	8.5	0.1888	2.3	0.275	1052	164	-6
18-3.2	dark rim, mixed zones	rim	0.95	1318	20	0.02	58.96	0.9	0.0557	2.6	107.4	1.0	0.0524	6.7	0.12	6.7	0.0169	1.0	0.150			
18-4.1	dark core or center	core	-0.02	1125	458	0.42	5.51	1.1	0.0751	1.0	1074.4	11.8	0.0751	1.0	1.88	1.5	0.1813	1.1	0.736	1071	21	0
18-4.2	dark rim / overgrowth	rim	1.41	572	19	0.03	28.74	0.9	0.0617	3.0	217.4	2.0	0.0577	4.8	0.28	4.9	0.0346	0.9	0.188			
18-5	lighter mag center	core	2.03	258	133	0.53	5.79	1.5	0.0897	2.1	1007.7	14.4	0.0897	2.1	2.14	2.5	0.1727	1.5	0.577	1420	40	38
18-6.1	lighter mag core	core	-0.01	284	57	0.21	5.01	2.3	0.0790	2.7	1173.5	26.6	0.0776	3.1	2.13	3.9	0.1993	2.3	0.606	1136	61	-3
18-6.2	darker rim / overgrowth	rim	1.84	527	38	0.07	30.02	0.9	0.0649	2.6	207.4	1.9	0.0649	2.6	0.30	2.8	0.0333	0.9	0.318			
18-7	mag zone	core	0.16	1175	325	0.29	20.82	1.3	0.0537	2.3	301.9	3.9	0.0537	2.3	0.36	2.6	0.0480	1.3	0.494			
18-8.1	indistinct core or center	core	0.05	243	198	0.84	14.86	1.7	0.0556	4.6	419.6	7.3	0.0556	4.6	0.52	4.9	0.0673	1.7	0.354			
18-8.2	darker rim / overgrowth	rim	0.40	598	23	0.04	54.79	1.4	0.0515	4.7	116.1	1.6	0.0515	4.7	0.13	4.9	0.0183	1.4	0.279			
18-9.1	lighter mag core	core	2.70	343	75	0.22	4.73	2.3	0.1032	1.8	1205.3	26.6	0.1014	2.2	2.95	3.2	0.2108	2.3	0.714	1651	42	34
18-9.2	dark mag rim	rim	0.51	806	18	0.02	50.68	0.9	0.0526	3.0	125.3	1.2	0.0504	4.2	0.14	4.3	0.0197	0.9	0.222			
18-10.1	convoluted core / center	core	0.50	622	19	0.03	56.90	1.9	0.0522	5.9	111.7	2.2	0.0522	5.9	0.13	6.2	0.0176	1.9	0.307			
18-10.2	darker rim / overgrowth	rim	-0.01	587	11	0.02	60.60	1.2	0.0480	4.1	105.5	1.2	0.0562	8.0	0.13	8.1	0.0167	1.3	0.157			
18-11	mag zone, mixed?	whole grain	-0.03	691	182	0.27	26.69	1.4	0.0507	3.5	237.2	3.4	0.0507	3.5	0.26	3.8	0.0375	1.4	0.377			
18-12.1	light core? / center	core	1.17	493	47	0.10	41.62	1.1	0.0584	3.4	151.3	1.7	0.0584	3.4	0.19	3.6	0.0240	1.1	0.305			
18-12.2	dark mag rim	rim	0.11	588	24	0.04	55.99	2.1	0.0492	7.9	114.0	2.4	0.0492	7.9	0.12	8.2	0.0179	2.1	0.252			
18-13.1	lighter mag core / center	core	-0.02	670	433	0.67	24.88	1.5	0.0512	4.0	254.1	3.9	0.0478	6.3	0.26	6.5	0.0400	1.6	0.241			

Table 3: SHRIMP U-Pb zircon data from samples at Searles Ridge, northern Peninsular Ranges

18-13.2	darker rim / overgrowth	rim	0.17	924	8	0.01	60.35	0.9	0.0495	3.2	105.8	1.0	0.0473	4.5	0.11	4.6	0.0165	0.9	0.207
18-14.1	lighter mag core / center	core	0.35	328	160	0.50	17.94	1.7	0.0563	4.4	348.5	5.8	0.0521	7.0	0.40	7.2	0.0555	1.7	0.237
18-14.2	darker rim / overgrowth	rim	0.23	803	92	0.12	52.51	1.0	0.0502	3.2	121.3	1.2	0.0449	6.6	0.12	6.7	0.0189	1.0	0.151

Spot Name	Spot Location	whole grain or core?	Common ^{206}Pb (%)	Total $^{238}\text{U}/^{206}\text{Pb}$			Error (%)	Total $^{207}\text{Pb}/^{206}\text{Pb}$			Error (%)	^{207}Pb -corr.			$^{207}\text{Pb}/^{206}\text{Pb}$			% Discordant				
				U (ppm)	Th (ppm)	$^{232}\text{Th}/^{238}\text{U}$		$^{206}\text{Pb}/^{238}\text{U}$ Age	$^{207}\text{Pb}/^{206}\text{Pb}$ Age	$^{207}\text{Pb}/^{235}\text{U}$												
18-15.1	lighter mag core / center	core	4.47	796	133	0.17	2.98	1.2	0.1485	1.4	1792.1	21.0	0.1483	1.4	6.86	1.8	0.3354	1.2	0.644	2326	24	25
18-15.2	mag zone, mixed?	mixed	5.95	851	60	0.07	5.10	0.4	0.1259	1.2	1091.6	5.3	0.1254	1.2	3.39	1.3	0.1961	0.5	0.344	2035	22	76
18-16.1	indistinct core or center	core	0.83	651	170	0.27	4.69	1.2	0.0887	1.2	1236.7	14.2	0.0883	1.3	2.59	1.7	0.2131	1.2	0.684	1388	24	11
18-16.2	indistinct zone, mixed?	mixed	2.75	847	111	0.13	9.94	0.5	0.0824	1.1	601.4	3.2	0.0821	1.1	1.14	1.2	0.1005	0.5	0.422	1247	22	
18-17.1	dark core / center	core	0.10	3017	562	0.19	26.46	1.2	0.0517	2.1	238.9	3.0	0.0517	2.1	0.27	2.5	0.0378	1.2	0.505			
18-17.2	dark mag rim	rim	0.20	1064	10	0.01	66.96	1.0	0.0495	3.3	95.4	0.9	0.0447	6.5	0.09	6.6	0.0148	1.0	0.152			
18-18.1	light core? / center	core	-0.95	164	95	0.60	3.86	1.6	0.0852	2.4	1496.4	23.8	0.0852	2.4	3.04	2.9	0.2588	1.6	0.562	1321	46	-11
18-18.2	darker rim / overgrowth	rim	0.61	885	14	0.02	64.25	1.0	0.0528	3.4	99.0	1.0	0.0528	3.4	0.11	3.6	0.0156	1.0	0.290			
18-19.1	mag center	whole grain	0.85	1082	205	0.20	38.81	1.4	0.0560	4.0	162.6	2.4	0.0560	4.0	0.20	4.2	0.0258	1.4	0.340			
18-19.2	dark mag rim		0.10	868	177	0.21	43.14	0.8	0.0498	2.8	147.6	1.2	0.0498	2.8	0.16	2.9	0.0232	0.8	0.288			
18-20.1	mag center / core?	core	3.44	413	62	0.16	11.97	1.5	0.0852	2.6	500.1	7.6	0.0852	2.6	0.98	3.0	0.0835	1.5	0.511	1319	50	
18-20.2	darker rim / overgrowth	rim	3.39	502	73	0.15	14.71	0.7	0.0823	1.7	410.1	3.0	0.0810	1.9	0.76	2.0	0.0679	0.7	0.363	1222	37	
18-21.1	lighter mag core / center	core	-0.42	138	61	0.46	35.09	2.8	0.0464	10.0	181.9	5.2	0.0464	10.0	0.18	10.4	0.0285	2.8	0.270			
18-21.2	dark mag rim	rim	0.12	670	77	0.12	52.39	1.0	0.0494	3.5	121.7	1.3	0.0494	3.5	0.13	3.6	0.0191	1.0	0.286			
18-22.1	convoluted core / center	core	1.94	989	254	0.26	6.34	1.2	0.0861	1.2	927.2	10.5	0.0861	1.2	1.87	1.7	0.1578	1.2	0.697	1341	23	42
18-22.2	darker rim / overgrowth	rim	1.70	860	28	0.03	37.17	0.7	0.0630	2.2	168.3	1.3	0.0615	3.3	0.23	3.4	0.0269	0.8	0.226			
18-23	mag zone, mixed?	whole grain	0.34	628	508	0.84	21.24	1.4	0.0550	3.4	295.6	4.2	0.0550	3.4	0.36	3.6	0.0471	1.4	0.393			
18-24.1	convoluted core / center	core	1.14	399	129	0.33	3.84	1.3	0.1023	1.4	1477.8	18.8	0.1023	1.4	3.68	1.9	0.2606	1.3	0.692	1667	25	12
18-24.2	darker rim / overgrowth	rim	3.41	569	70	0.13	6.94	0.6	0.0953	1.1	840.1	4.9	0.0953	1.1	1.89	1.2	0.1441	0.6	0.476	1534	20	77
18-25	darker rim / overgrowth	rim	0.58	869	13	0.02	56.78	1.7	0.0529	5.0	111.9	2.0	0.0529	5.0	0.13	5.3	0.0176	1.7	0.325			
18-26	indistinct core or center	core	-0.47	810	190	0.24	3.19	1.2	0.1039	0.9	1765.9	20.1	0.1035	0.9	4.47	1.5	0.3135	1.2	0.778	1687	17	-4
18-27	darker rim / overgrowth	rim	-0.02	1145	6	0.01	63.17	0.8	0.0479	3.0	101.3	0.9	0.0479	3.0	0.10	3.1	0.0158	0.8	0.273			
18-28	darker rim / overgrowth	rim	0.16	1464	6	0.00	65.31	0.7	0.0493	4.6	97.8	0.8	0.0461	6.0	0.10	6.1	0.0152	0.8	0.125			
18-29	darker rim / overgrowth	rim	-0.02	997	194	0.20	56.61	0.9	0.0481	3.1	112.9	1.0	0.0447	7.1	0.11	7.2	0.0176	1.0	0.136			
NR 99-20																						
20-1.1	lighter mag center / core?		0.10	339	92	0.28	4.06	1.3	0.0905	1.5	1418.5	17.4	0.0905	1.5	3.07	2.0	0.2464	1.3	0.641	1436	29	1
20-1.2	dark rim / overgrowth		0.86	1138	12	0.01	54.24	0.8	0.0552	2.5	116.8	0.9	0.0528	3.5	0.13	3.5	0.0184	0.8	0.226		</	

Table 3: SHRIMP U-Pb zircon data from samples at Searles Ridge, northern Peninsular Ranges

20-4.1	indistinct rim	0.35	1630	19	0.01	52.50	2.2	0.0512	7.2	121.2	2.7	0.0512	7.2	0.13	7.5	0.0190	2.2	0.294			
20-4.2	dark rim / overgrowth	-0.23	3270	794	0.25	61.69	0.5	0.0463	1.8	103.9	0.5	0.0463	1.8	0.10	1.8	0.0162	0.5	0.274			
20-5.1	light core / center	0.71	94	53	0.58	3.54	2.1	0.1046	4.0	1595.6	33.3	0.1046	4.0	4.08	4.5	0.2829	2.1	0.468	1708	73	6
20-5.2	darker mag rim / overgrowth?	-0.21	1036	7	0.01	61.06	1.1	0.0464	3.2	104.9	1.1	0.0464	3.2	0.10	3.4	0.0164	1.1	0.312			
20-6.1	mag core	0.65	627	169	0.28	62.72	2.0	0.0532	6.5	101.3	2.1	0.0395	19.8	0.09	19.9	0.0157	2.2	0.111			
20-6.2	dark mag rim	0.10	4992	1431	0.30	61.79	0.4	0.0489	1.4	103.4	0.4	0.0480	1.7	0.11	1.7	0.0162	0.4	0.234			
20-7	indistinct rim / overgrowth	-0.35	858	7	0.01	60.28	1.7	0.0453	5.4	106.4	1.9	0.0400	10.6	0.09	10.7	0.0165	1.8	0.166			
20-8.1	indistinct dark center	0.16	1034	618	0.62	60.41	1.6	0.0494	4.5	105.7	1.7	0.0452	8.0	0.10	8.2	0.0165	1.6	0.200			
20-8.2	mixed zone with lighter rim	0.00	519	260	0.52	50.52	1.6	0.0485	5.5	126.3	2.0					0.0190	2.7				
20-9.1	indistinct light core / center	1.73	140	89	0.66	3.61	1.7	0.1110	2.3	1550.6	25.5	0.1110	2.3	4.24	2.8	0.2767	1.7	0.593	1816	41	15
20-9.2	dark rim / overgrowth	3.41	495	26	0.05	36.76	1.0	0.0766	2.7	167.2	1.7	0.0766	2.7	0.29	2.9	0.0272	1.0	0.342	1111	54	
20-10.1	mixed core / center	0.10	74	41	0.58	31.33	3.6	0.0510	12.3	202.3	7.3	0.0510	12.3	0.22	12.8	0.0319	3.6	0.280			
20-10.2	dark rim / overgrowth	0.34	662	18	0.03	58.45	1.1	0.0509	3.9	109.0	1.3	0.0392	14.4	0.09	14.5	0.0169	1.3	0.091			
20-11.1	mag core	0.34	205	57	0.29	5.68	1.5	0.0769	2.7	1042.6	15.0	0.0769	2.7	1.87	3.0	0.1761	1.5	0.483	1118	53	7
20-11.2	dark rim / overgrowth	0.01	707	12	0.02	50.72	1.0	0.0486	3.4	125.9	1.3	0.0555	6.8	0.15	6.9	0.0199	1.1	0.155			
20-12.1	mag center	0.00	2649	742	0.29	60.60	1.4	0.0482	3.3	105.5	1.4	0.0482	3.3	0.11	3.6	0.0165	1.4	0.382			
20-12.2	dark mag rim	-0.09	3958	1441	0.38	62.14	0.5	0.0474	1.7	103.0	0.5	0.0448	3.0	0.10	3.0	0.0160	0.5	0.166			
20-13	dark rim / overgrowth	0.07	958	8	0.01	56.83	1.5	0.0488	4.0	112.4	1.7	0.0281	31.7	0.07	31.8	0.0171	1.8	0.058			

Spot Name	Spot Location	whole grain or core?	Common ^{206}Pb (%)	U (ppm)	Th (ppm)	$^{232}\text{Th}/^{238}\text{U}$	Total $^{238}\text{U}/^{206}\text{Pb}$	Error (%)	Total $^{207}\text{Pb}/^{206}\text{Pb}$	Error (%)	^{207}Pb -corr.			Rad $^{207}\text{Pb}/^{206}\text{Pb}$	Error (%)	Rad $^{207}\text{Pb}/^{235}\text{U}$	Error (%)	Rad $^{206}\text{Pb}/^{238}\text{U}$	Error (%)	^{204}Pb -corr.			% Dis-cor-dant
											$^{206}\text{Pb}/^{238}\text{U}$	Age	Error (1s)	$^{206}\text{Pb}/^{206}\text{Pb}$	Age	$^{206}\text{Pb}/^{235}\text{U}$	Age	$^{206}\text{Pb}/^{238}\text{U}$	Age	Correl.	$^{207}\text{Pb}/^{206}\text{Pb}$	Age	Error (1s)
20-14	indistinct dark center	0.37	3015	60	0.02	3.52	1.1	0.1023	0.5	1607.5	17.2	0.1023	0.5	4.01	1.2	0.2842	1.1	0.907	1666	9	3		
20-15	indistinct rim / overgrowth	0.13	1204	9	0.01	59.57	1.5	0.0492	4.1	107.2	1.6	0.0492	4.1	0.11	4.3	0.0168	1.5	0.346					
20-16	indistinct dark center	15.45	8267	12940	1.62	52.66	1.2	0.1708	8.4	102.7	2.5	0.0446	63.8	0.10	63.8	0.0160	3.3	0.051					
20-17.1	light core / center	0.09	83	26	0.33	5.36	2.3	0.0770	5.3	1101.5	24.7	0.0770	5.3	1.98	5.8	0.1865	2.3	0.394	1120	106	2		
20-17.2	mixed zone with dark rim	0.64	521	15	0.03	41.18	1.0	0.0543	3.3	153.7	1.6	0.0439	12.6	0.15	12.6	0.0240	1.2	0.096					
20-18.1	mag center / core	0.19	722	279	0.40	39.53	1.5	0.0508	4.2	160.8	2.5	0.0508	4.2	0.18	4.5	0.0253	1.5	0.345					
20-18.2	dark mag rim	0.15	1174	17	0.01	64.51	0.9	0.0492	3.0	99.0	0.9	0.0473	4.1	0.10	4.2	0.0155	0.9	0.210					
20-19.1	lighter mag center / core?	-0.32	625	240	0.40	26.04	1.5	0.0485	3.8	243.7	3.6	0.0485	3.8	0.26	4.1	0.0384	1.5	0.361					
20-19.2	darker mag rim / overgrowth?	0.31	995	17	0.02	62.29	0.9	0.0505	3.1	102.4	1.0	0.0484	4.3	0.11	4.4	0.0160	0.9	0.212					
20-20	lighter mag center / core?	0.24	283	74	0.27	27.01	1.9	0.0528	5.6	233.8	4.4	0.0528	5.6	0.27	5.9	0.0370	1.9	0.317					
20-21	lighter mag center / core?	2.05	214	48	0.23	10.46	1.9	0.0760	4.7	577.2	11.2	0.0760	4.7	1.00	5.1	0.0956	1.9	0.382					
20-22.1	dark mag core / center	1.70	96	32																			

Table 3: SHRIMP U-Pb zircon data from samples at Searles Ridge, northern Peninsular Ranges

20-24.2	dark rim / overgrowth	0.04	3798	929	0.25	60.62	0.8	0.0484	2.7	105.4	0.8	0.0456	4.0	0.10	4.1	0.0164	0.8	0.194
20-25.1	lighter mag center / core?	0.02	1399	274	0.20	62.60	1.5	0.0482	3.8	102.1	1.6	0.0482	3.8	0.11	4.1	0.0160	1.5	0.377
20-25.2	darker mag rim / overgrowth?	-0.40	1973	299	0.16	60.45	1.0	0.0450	3.8	106.2	1.1	0.0450	3.8	0.10	3.9	0.0165	1.0	0.269
20-26.1	dark mag core / center	0.04	263	133	0.52	59.22	2.4	0.0485	8.5	107.9	2.7	0.0485	8.5	0.11	8.8	0.0169	2.4	0.276
20-26.2	dark rim / overgrowth	0.39	465	114	0.25	59.27	2.4	0.0513	7.9	107.4	2.6	0.0374	27.0	0.09	27.1	0.0166	2.6	0.097
NR 99-21																		
21-1.1	indistinct center	0.17	541	225	0.43	27.66	2.0	0.0521	6.2	228.6	4.5	0.0448	12.9	0.22	13.1	0.0358	2.1	0.157
21-1.2	indistinct zone / rim?	0.11	607	135	0.23	34.24	1.5	0.0507	5.7	185.4	2.9	0.0507	5.7	0.20	5.9	0.0292	1.5	0.258
21-2.1	mag center	-0.12	820	114	0.14	30.69	1.4	0.0493	3.4	206.9	2.9	0.0493	3.4	0.22	3.6	0.0326	1.4	0.383
21-2.2	dark mag rim	0.26	3334	236	0.07	38.23	0.8	0.0514	2.3	166.0	1.4	0.0462	5.7	0.17	5.8	0.0260	0.9	0.151
21-3.1	mag center	0.30	641	141	0.23	30.16	1.6	0.0527	3.6	209.6	3.3	0.0501	5.2	0.23	5.4	0.0330	1.6	0.296
21-3.2	dark rim / overgrowth?	1.42	1972	197	0.10	71.60	2.4	0.0591	8.0	88.1	2.2	0.0591	8.0	0.11	8.3	0.0140	2.4	0.292
21-4.1	light center / core?	-0.05	272	55	0.21	3.61	1.3	0.0972	2.2	1577.7	19.7	0.0972	2.2	3.71	2.5	0.2772	1.3	0.499
21-4.2	dark rim / overgrowth?	1.12	918	167	0.19	5.01	0.8	0.0880	1.2	1161.0	8.8	0.0880	1.2	2.42	1.4	0.1996	0.8	0.545
21-5	darker mag center / core?	-0.08	121	92	0.79	4.10	1.6	0.0884	2.6	1406.9	21.7	0.0884	2.6	2.97	3.1	0.2437	1.6	0.512
21-6.1	mag zone	0.20	1341	403	0.31	28.63	1.4	0.0522	3.1	220.9	3.0	0.0522	3.1	0.25	3.4	0.0349	1.4	0.400
21-6.2	darker mag rim	0.17	1409	366	0.27	32.31	1.0	0.0513	3.4	196.2	2.0	0.0513	3.4	0.22	3.6	0.0310	1.0	0.286
21-7	indistinct mag center	-0.17	133	146	1.14	5.52	1.6	0.0738	3.0	1074.5	16.5	0.0738	3.0	1.84	3.4	0.1811	1.6	0.465
21-8.1	mag zone	1.13	70	43	0.64	24.24	3.0	0.0604	11.5	257.7	7.9	0.0604	11.5	0.34	11.8	0.0413	3.0	0.250
21-8.2	dark rim / overgrowth?	-0.02	94	45	0.50	28.09	3.7	0.0505	11.1	225.6	8.5	0.0505	11.1	0.25	11.7	0.0356	3.7	0.317
21-9.1	mag zone	0.10	427	138	0.33	26.94	1.6	0.0517	4.3	234.7	3.7	0.0517	4.3	0.26	4.6	0.0371	1.6	0.345
21-9.2	dark rim / overgrowth?	0.52	898	159	0.18	28.49	1.2	0.0547	3.7	221.3	2.7	0.0547	3.7	0.26	3.9	0.0351	1.2	0.315
21-10	dark mag zone	-0.17	855	794	0.96	28.70	1.4	0.0492	3.3	221.2	3.1	0.0492	3.3	0.24	3.5	0.0348	1.4	0.390
21-11.1	dark mag zone	0.05	1068	426	0.41	29.49	1.3	0.0508	2.7	214.9	2.8	0.0487	4.0	0.23	4.2	0.0338	1.3	0.313
21-11.2	darker mag rim	0.69	471	129	0.28	28.47	1.7	0.0561	5.1	221.0	3.8	0.0561	5.1	0.27	5.3	0.0351	1.7	0.316
21-12	indistinct center	0.01	1819	401	0.23	27.00	1.3	0.0509	2.1	234.4	3.0	0.0509	2.1	0.26	2.5	0.0370	1.3	0.510
21-13.1	mag center / core?	-0.23	847	138	0.17	30.65	1.4	0.0484	3.3	207.4	2.8	0.0484	3.3	0.22	3.5	0.0326	1.4	0.387
21-13.2	darker mag rim	0.41	936	115	0.13	36.06	1.3	0.0529	4.7	175.6	2.3	0.0489	7.4	0.19	7.5	0.0276	1.3	0.177
21-14.1	mag center / core?	0.12	774	225	0.30	30.63	1.5	0.0512	3.3	206.8	3.1	0.0512	3.3	0.23	3.7	0.0326	1.5	0.404
21-14.2	darker mag rim	4.78	1843	217	0.12	35.29	0.9	0.0876	12.2	171.6	2.8	0.0488	31.6	0.18	31.6	0.0270	1.6	0.052
21-15	mag center	0.08	428	261	0.63	24.94	1.6	0.0519	4.4	253.2	4.1	0.0519	4.4	0.29	4.7	0.0401	1.6	0.342
21-16.1	convoluted mag zone	0.20	54	30	0.57	4.89	2.4	0.0817	5.4	1197.8	28.8	0.0817	5.4	2.31	5.9	0.2046	2.4	0.415
21-16.2	dark rim / overgrowth?	1.98	772	52	0.07	21.86	1.2	0.0678	4.9	282.8	3.6	0.0678	4.9	0.43	5.0	0.0458	1.2	0.240

Spot Name	Spot Location	whole grain or core?	Common ^{206}Pb (%)	U (ppm)	Th (ppm)	$^{232}\text{Th}/^{238}\text{U}$	Total $^{238}\text{U}/^{206}\text{Pb}$	Error (%)	Total $^{207}\text{Pb}/^{206}\text{Pb}$	Error (%)	^{207}Pb -corr.			Rad $^{207}\text{Pb}/^{206}\text{Pb}$	Error (%)	Rad $^{207}\text{Pb}/^{235}\text{U}$	Error (%)	^{204}Pb -corr.			Correl.	Error (1s)	% Dis-cor-dant
											$^{206}\text{Pb}/^{238}\text{U}$	Age											

Table 3: SHRIMP U-Pb zircon data from samples at Searles Ridge, northern Peninsular Ranges

21-17.2	dark rim / overgrowth?	-0.13	936	75	0.08	40.71	1.3	0.0481	4.4	156.6	2.1	0.0481	4.4	0.16	4.6	0.0246	1.3	0.289			
21-18.1	convoluted zone	-0.20	1662	79	0.05	3.91	1.1	0.0905	0.7	1471.6	15.7	0.0905	0.7	3.19	1.3	0.2559	1.1	0.853	1435	13	-2
21-18.2	dark mag rim	0.06	1872	116	0.06	28.93	0.8	0.0510	2.6	218.9	1.8	0.0495	3.3	0.24	3.4	0.0345	0.8	0.245			
21-19	mag zone	-0.13	273	80	0.30	27.24	1.8	0.0498	5.5	232.7	4.3	0.0498	5.5	0.25	5.8	0.0367	1.8	0.315			
21-20.1	light center / core?	0.92	97	46	0.50	14.96	1.8	0.0624	4.7	413.5	7.6	0.0624	4.7	0.58	5.1	0.0669	1.8	0.363			
21-20.2	dark rim / overgrowth?	0.07	3520	51	0.01	62.38	0.6	0.0486	1.7	102.4	0.6	0.0480	1.9	0.11	1.9	0.0160	0.6	0.287			
21-21	convoluted zone	0.98	243	32	0.14	3.79	1.3	0.1018	1.6	1496.1	19.4	0.1018	1.6	3.70	2.1	0.2638	1.3	0.627	1658	30	10
21-22	light center / core?	0.21	357	102	0.29	3.33	1.2	0.1054	1.2	1689.8	20.4	0.1054	1.2	4.37	1.7	0.3003	1.2	0.709	1722	22	2
21-23	dark mag zone	-0.02	2232	45	0.02	59.26	1.3	0.0480	3.2	107.9	1.4	0.0464	4.0	0.11	4.2	0.0168	1.3	0.312			
21-24	light center / core?	2.05	1127	76	0.07	5.43	0.4	0.0923	0.7	1069.7	4.2	0.0923	0.7	2.34	0.8	0.1843	0.4	0.524	1473	12	35
21-25	dark rim / overgrowth?	2.24	1274	9	0.01	6.66	0.9	0.0871	0.7	882.4	7.6	0.0871	0.7	1.80	1.1	0.1501	0.9	0.776	1362	14	51
21-26	mag zone	-0.08	1453	130	0.09	28.60	0.6	0.0500	1.7	221.7	1.4	0.0488	2.1	0.23	2.2	0.0349	0.6	0.280			
21-27	light center / core?	0.52	135	58	0.44	5.98	1.2	0.0766	2.2	992.6	11.9	0.0766	2.2	1.77	2.6	0.1673	1.2	0.479	1111	45	11