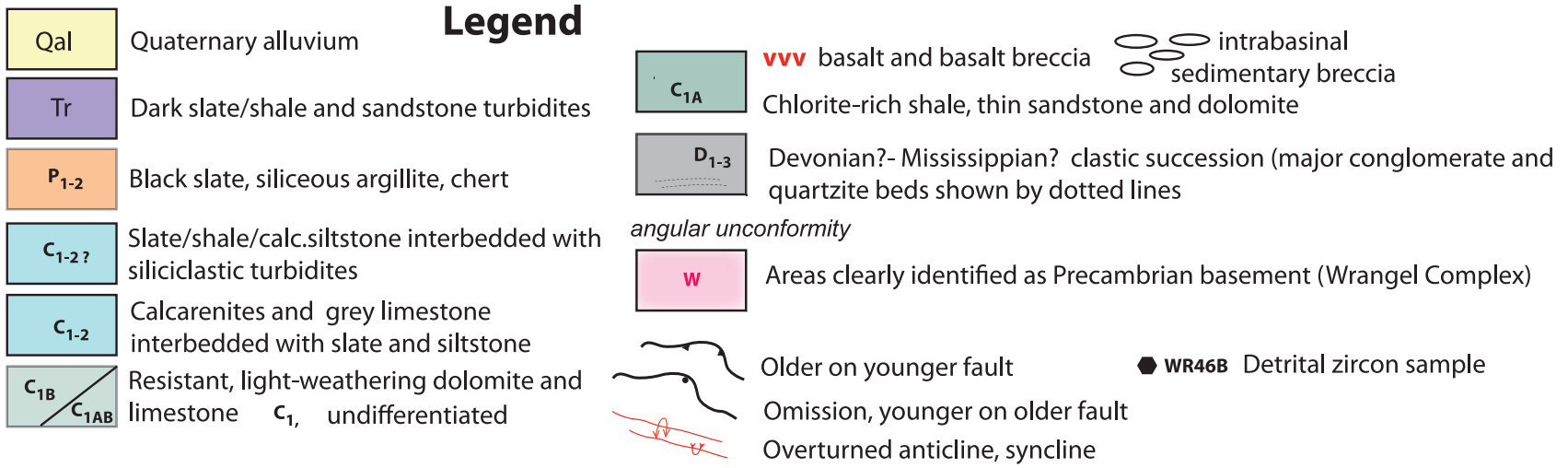
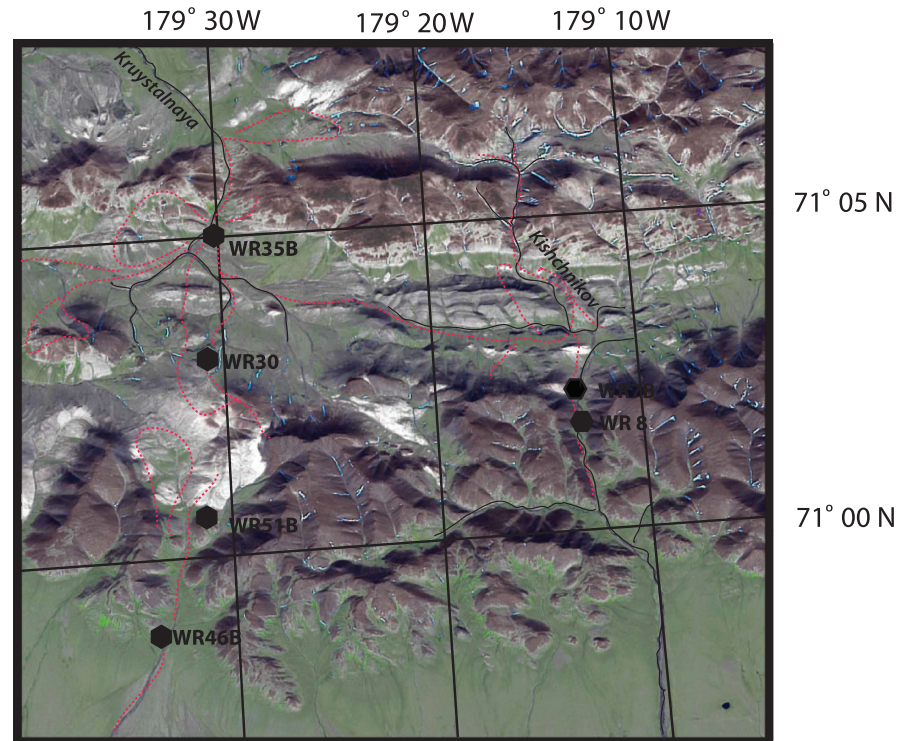
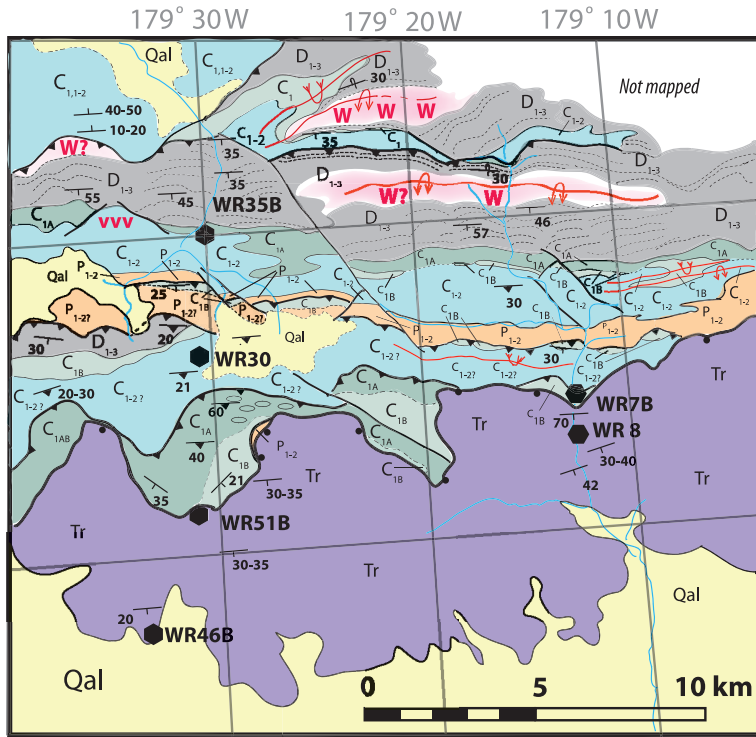


**APPENDIX 1: FIGURE 3 COLOR VERSION**



## APPENDIX 2: METHODS: U-Pb DATING OF ZIRCON USING LA-ICP-MS

Zircon was extracted from rock samples by conventional crushing, washing, heavy liquids, and magnetic separation techniques. Mineral separation was carried out in the Fission Track thermochronology lab of Alex Soloviev, GINRAS, Moscow, and represents a subset of a larger sample set prepared for apatite and zircon fission track work to be reported on in subsequent contributions. The U-Pb geochronology of zircons was conducted by laser ablation multicollector inductively coupled plasma mass spectrometry (LA-MC-ICPMS) at the Arizona LaserChron Center (Gehrels et al., 2006, 2008). The analyses involve ablation of zircon with a New Wave DUV193 Excimer laser (operating at a wavelength of 193 nm) using a spot diameter of 35  $\mu\text{m}$ . The ablated material is carried in helium into the plasma source of a GVI Isoprobe, which is equipped with a flight tube of sufficient width that U, Th, and Pb isotopes are measured simultaneously. All measurements are made in static mode, using Faraday detectors with 10e11 ohm resistors for  $^{238}\text{U}$ ,  $^{232}\text{Th}$ ,  $^{208}\text{Pb}$ , and  $^{206}\text{Pb}$ ; a Faraday detector with a 10e12 ohm resistor for  $^{207}\text{Pb}$ ; and an ion-counting channel for  $^{204}\text{Pb}$ . Ion yields are approximately 1.0 mV/ppm. Each analysis consists of one 12-s integration on peaks with the laser off (for backgrounds), twelve 1-s integrations with the laser firing, and a 30-s delay to purge the previous sample and prepare for the next analysis. The ablation pit is about 12  $\mu\text{m}$  in depth.

For each analysis, the errors in determining  $^{206}\text{Pb}/^{238}\text{U}$  and  $^{206}\text{Pb}/^{204}\text{Pb}$  result in a measurement error of about 1–2% (at 2-sigma level) in the  $^{206}\text{Pb}/^{238}\text{U}$  age. The errors in measurement of  $^{206}\text{Pb}/^{207}\text{Pb}$  and  $^{206}\text{Pb}/^{204}\text{Pb}$  also result in about 1–2% (at 2-sigma level) uncertainty in age for grains that are greater than 1.0 Ga but are substantially larger for younger grains because of low intensity of the  $^{207}\text{Pb}$  signal. For most analyses, the crossover in precision of  $^{206}\text{Pb}/^{238}\text{U}$  and  $^{206}\text{Pb}/^{207}\text{Pb}$  ages occurs at about 1.0 Ga.

Common Pb correction is accomplished by using the measured  $^{204}\text{Pb}$  and assuming an initial Pb composition from Stacey and Kramers (1975) (with uncertainties of 1.0 for  $^{206}\text{Pb}/^{204}\text{Pb}$  and 0.3 for  $^{207}\text{Pb}/^{204}\text{Pb}$ ). Our measurement of  $^{204}\text{Pb}$  is unaffected by the presence of  $^{204}\text{Hg}$  because backgrounds are measured on peaks (thereby subtracting any background  $^{204}\text{Hg}$  and  $^{204}\text{Pb}$ ) and because very little Hg is present in the argon gas (background  $^{204}\text{Hg} = \sim 300$  CPS).

Interelement fractionation of Pb/U is generally approximately 20%, whereas apparent fractionation of Pb isotopes is

generally less than 2%. In-run analysis of fragments of a large Sri Lanka zircon crystal (generally every fifth measurement) with a known age of  $563.5 \pm 3.2$  Ma (2-sigma error) is used to correct for this fractionation. The uncertainty resulting from the calibration correction is generally 1–2% (2-sigma) for both  $^{206}\text{Pb}/^{207}\text{Pb}$  and  $^{206}\text{Pb}/^{238}\text{U}$  ages. Concentrations of U and Th are calibrated relative to U and Th in our Sri Lanka zircon standard.

The analytical data are reported in Table 1A. Uncertainties shown in these tables are at the 1-sigma level and include only measurement errors.

Interpreted ages are based on  $^{206}\text{Pb}/^{238}\text{U}$  for less than 1000-Ma grains and on  $^{206}\text{Pb}/^{207}\text{Pb}$  for greater than 1000-Ma grains. This division at 1000 Ma results from the increasing uncertainty of  $^{206}\text{Pb}/^{238}\text{U}$  ages and the decreasing uncertainty of  $^{206}\text{Pb}/^{207}\text{Pb}$  ages as a function of age. Analyses that are greater than 20% discordant (by comparison of  $^{206}\text{Pb}/^{238}\text{U}$  and  $^{206}\text{Pb}/^{207}\text{Pb}$  ages) or greater than 5% reverse discordant are not included.

Cumulative and normalized relative age-probability diagrams are generated and K-S analyses are performed using routines available from [www.geo.arizona.edu/alc](http://www.geo.arizona.edu/alc) (Gehrels, 2009).

## REFERENCES CITED

- Gehrels, G. E., 2009, Analysis tools: <http://www.geo.arizona.edu/alc/Analytical%20Methods.htm> (accessed November 29, 2009).
- Gehrels, G. E., V. Valencia, and A. Pullen, 2006, Detrital zircon geochronology by laser-ablation multicollector ICPMS at the Arizona LaserChron Center, in T. Loszewski and W. Huff, eds., *Geochronology: Emerging opportunities: Paleontology Society Short Course*, Paleontology Society Papers 11, 10 p.
- Gehrels, G. E., V. Valencia, and J. Ruiz, 2008, Enhanced precision, accuracy, efficiency and spatial resolution of U-Pb ages by laser ablation-multicollector-inductively coupled plasma-mass spectrometry: *Geochemistry, Geophysics, Geosystems*, v. 9, p. Q03017, doi:10.1029/2007GC001805.
- Stacey, J. S., and J. D. Kramers, 1975, Approximation of terrestrial lead isotope evolution by a two-stage model: *Earth and Planetary Science Letters*, v. 26, p. 207–221.

### APPENDIX 3: ANALYTICAL RESULTS

U-Pb Zircon Geochronologic Analyses by Laser-Ablation Multicollector ICP Mass Spectrometry<sup>†</sup>

Analysis	U (ppm)	<sup>206</sup> Pb/ <sup>204</sup> Pb	U/Th	Isotopic Ratios					Apparent Ages (Ma)					Best age (Ma)	± (Ma)	
				<sup>207</sup> Pb*/ <sup>235</sup> U	± (%)	<sup>206</sup> Pb*/ <sup>238</sup> U	± (%)	Error Corr.	<sup>206</sup> Pb*/ <sup>238</sup> U	± (Ma)	<sup>207</sup> Pb*/ <sup>235</sup> U	± (Ma)	<sup>206</sup> Pb*/ <sup>207</sup> Pb <sup>†</sup>			± (Ma)
<b>Sample ELM06 WR35B</b>																
ELM06 WR35B-32	1473	2670	1.3	0.6225	4.2	0.0647	1.2	0.29	404.3	4.7	491.4	16.2	921.3	82.0	404.3	4.7
ELM06 WR35B-64	573	18,750	1.5	0.5351	3.9	0.0706	1.3	0.34	439.7	5.6	435.2	13.9	411.2	83.0	439.7	5.6
ELM06 WR35B-30	785	19,070	1.2	0.6039	4.5	0.0750	1.7	0.37	466.1	7.6	479.7	17.2	545.2	91.0	466.1	7.6
ELM06 WR35B-44	1180	12,202	2.4	0.7696	8.2	0.0859	7.4	0.90	531.1	37.9	579.6	36.3	774.5	74.1	531.1	37.9
ELM06 WR35B-34	207	7130	0.6	0.7496	4.1	0.0879	3.5	0.85	543.1	18.3	568.0	18.0	668.8	46.7	543.1	18.3
ELM06 WR35B-67	462	31,140	0.9	0.7115	2.3	0.0889	2.0	0.86	549.2	10.3	545.6	9.6	530.9	25.4	549.2	10.3
ELM06 WR35B-76	394	21,414	1.6	0.7254	2.3	0.0899	1.4	0.62	554.8	7.7	553.9	9.9	550.1	39.6	554.8	7.7
ELM06 WR35B-58	621	34,324	2.2	0.7541	3.0	0.0919	1.0	0.34	566.5	5.4	570.6	12.9	586.9	60.3	566.5	5.4
ELM06 WR35B-17	148	9310	1.0	0.7267	2.8	0.0919	1.1	0.38	567.0	5.8	554.6	11.8	504.1	55.9	567.0	5.8
ELM06 WR35B-5	852	25,162	0.4	0.7492	1.9	0.0924	1.3	0.69	570.0	7.1	567.8	8.3	558.8	30.1	570.0	7.1
ELM06 WR35B-86	510	28,412	2.3	0.7687	3.1	0.0925	1.4	0.45	570.3	7.5	579.0	13.6	613.4	59.6	570.3	7.5
ELM06 WR35B-75	50	3842	1.5	0.7584	6.2	0.0929	1.8	0.28	572.5	9.6	573.1	27.1	575.3	128.9	572.5	9.6
ELM06 WR35B-27	171	4774	1.0	0.8119	8.4	0.0940	3.4	0.41	579.2	18.8	603.5	38.0	696.0	162.8	579.2	18.8
ELM06 WR35B-95	1704	3886	0.4	0.9091	4.7	0.0965	2.9	0.62	593.8	16.6	656.6	22.9	878.8	76.9	593.8	16.6
ELM06 WR35B-78	437	5608	12.5	0.8495	4.0	0.0969	1.0	0.25	596.5	5.7	624.4	18.8	726.6	82.7	596.5	5.7
ELM06 WR35B-106	1034	76,092	1.5	0.8205	2.4	0.0984	1.5	0.62	604.9	8.5	608.3	11.0	621.2	40.6	604.9	8.5
ELM06 WR35B-93	344	11,160	1.3	0.8315	1.8	0.0986	1.0	0.55	606.0	5.8	614.4	8.4	645.6	32.7	606.0	5.8
ELM06 WR35B-98	533	32,096	1.0	0.8282	2.4	0.0990	1.4	0.58	608.4	8.2	612.6	11.2	628.0	42.7	608.4	8.2
ELM06 WR35B-50	341	30,510	1.0	0.8385	2.7	0.0997	1.5	0.58	612.8	9.0	618.3	12.3	638.6	46.7	612.8	9.0
ELM06 WR35B-41	338	20,166	1.0	0.8450	3.6	0.1007	2.3	0.66	618.6	13.8	621.9	16.5	633.7	57.6	618.6	13.8
ELM06 WR35B-61	430	12,872	1.8	0.8528	2.2	0.1009	1.0	0.45	619.8	5.9	626.2	10.5	649.5	43.0	619.8	5.9
ELM06 WR35B-45	220	19,802	2.4	0.8511	2.7	0.1020	1.0	0.37	626.4	6.0	625.3	12.6	621.2	54.2	626.4	6.0
ELM06 WR35B-77	155	11,162	0.9	0.8621	1.8	0.1022	1.1	0.58	627.1	6.3	631.3	8.5	646.4	31.6	627.1	6.3
ELM06 WR35B-94	718	42,490	3.2	0.8604	2.0	0.1022	1.2	0.59	627.2	7.2	630.3	9.6	641.6	35.5	627.2	7.2
ELM06 WR35B-14	583	6640	2.5	0.9101	4.1	0.1022	3.0	0.72	627.4	17.8	657.1	20.0	760.4	60.8	627.4	17.8
ELM06 WR35B-6	242	10,810	1.7	0.8517	2.9	0.1029	1.0	0.35	631.6	6.0	625.6	13.4	603.6	58.4	631.6	6.0
ELM06 WR35B-79	490	39,960	1.0	0.8821	2.2	0.1035	1.1	0.49	634.9	6.4	642.1	10.3	667.8	40.5	634.9	6.4
ELM06 WR35B-57	385	33,858	2.7	0.8712	1.9	0.1036	1.0	0.51	635.4	6.1	636.2	9.2	639.0	36.0	635.4	6.1
ELM06 WR35B-80	347	22,212	0.9	0.8670	1.5	0.1037	1.0	0.68	636.1	6.1	634.0	7.0	626.3	23.4	636.1	6.1
ELM06 WR35B-28	405	18,128	1.3	0.8788	2.4	0.1039	1.0	0.42	637.3	6.1	640.3	11.3	651.0	46.4	637.3	6.1

ELM06 WR35B-1	123	4732	0.8	0.8619	3.1	0.1040	1.3	0.41	637.8	7.6	631.1	14.4	607.4	60.4	637.8	7.6
ELM06 WR35B-99	1093	42,564	4.5	0.9247	3.1	0.1053	1.9	0.62	645.4	11.9	664.9	15.3	731.5	52.3	645.4	11.9
ELM06 WR35B-60	1258	33,360	1.3	0.8994	2.0	0.1057	1.4	0.70	647.5	8.6	651.4	9.5	664.9	30.0	647.5	8.6
ELM06 WR35B-4	554	22,452	2.1	0.9109	1.9	0.1070	1.0	0.52	655.6	6.2	657.5	9.4	664.2	35.6	655.6	6.2
ELM06 WR35B-97	294	15,612	2.2	0.9357	2.0	0.1082	1.0	0.51	662.1	6.3	670.6	9.6	699.4	35.8	662.1	6.3
ELM06 WR35B-36	354	21,176	0.6	0.9566	2.8	0.1086	1.8	0.63	664.7	11.2	681.5	14.0	737.4	46.5	664.7	11.2
ELM06 WR35B-48	392	40,894	3.8	0.9425	2.9	0.1089	2.4	0.81	666.5	15.1	674.2	14.4	699.9	36.1	666.5	15.1
ELM06 WR35B-101	680	37,418	0.8	0.9715	2.9	0.1105	2.0	0.69	675.7	13.1	689.2	14.7	733.7	44.7	675.7	13.1
ELM06 WR35B-40	168	8426	1.1	0.9734	2.8	0.1114	1.0	0.36	680.6	6.5	690.2	13.8	721.4	54.5	680.6	6.5
ELM06 WR35B-10	315	23,996	4.4	0.9599	2.9	0.1116	1.8	0.60	682.3	11.5	683.2	14.6	686.3	50.0	682.3	11.5
ELM06 WR35B-71	444	7284	0.9	0.9895	2.7	0.1120	1.0	0.37	684.1	6.5	698.5	13.6	745.0	52.9	684.1	6.5
ELM06 WR35B-84	326	24,936	1.5	0.9914	2.7	0.1123	1.3	0.47	686.3	8.1	699.5	13.5	741.9	49.7	686.3	8.1
ELM06 WR35B-13	375	26,098	3.7	0.9908	3.9	0.1128	3.5	0.90	688.7	23.0	699.1	19.7	732.8	35.6	688.7	23.0
ELM06 WR35B-29	242	16,490	4.0	0.9957	2.9	0.1143	2.1	0.73	697.5	14.1	701.6	14.8	715.0	42.4	697.5	14.1
ELM06 WR35B-25	326	24,714	4.4	0.9853	4.2	0.1144	3.9	0.91	698.3	25.5	696.3	21.2	689.8	36.5	698.3	25.5
ELM06 WR35B-68	478	29,804	0.7	0.9855	2.7	0.1145	1.2	0.46	699.1	8.1	696.4	13.4	687.7	50.4	699.1	8.1
ELM06 WR35B-96	863	62,514	8.5	1.0150	2.6	0.1146	1.6	0.64	699.4	10.9	711.4	13.1	749.5	41.4	699.4	10.9
ELM06 WR35B-70	549	18,238	3.9	0.9980	1.5	0.1148	1.0	0.67	700.3	6.6	702.8	7.6	710.8	23.8	700.3	6.6
ELM06 WR35B-81	489	13,470	1.7	1.0194	1.6	0.1150	1.1	0.69	701.6	7.4	713.6	8.3	751.4	24.8	701.6	7.4
ELM06 WR35B-65	296	18,230	2.4	0.9994	3.3	0.1158	1.0	0.31	706.2	6.8	703.5	17.0	694.8	67.8	706.2	6.8
ELM06 WR35B-103	454	35,304	2.8	1.0107	2.3	0.1161	1.0	0.44	708.0	6.7	709.2	11.6	713.2	43.2	708.0	6.7
ELM06 WR35B-51	213	17,180	3.6	1.0068	2.9	0.1166	1.5	0.50	711.0	9.9	707.3	15.0	695.5	54.2	711.0	9.9
ELM06 WR35B-110	659	31,422	0.9	1.0120	3.1	0.1167	1.1	0.36	711.3	7.6	709.9	16.0	705.3	62.2	711.3	7.6
ELM06 WR35B-12	245	19,570	0.9	1.0353	3.4	0.1169	2.7	0.77	712.5	17.9	721.6	17.8	749.9	46.2	712.5	17.9
ELM06 WR35B-35	301	12,670	0.7	1.0314	3.5	0.1169	2.3	0.65	712.8	15.4	719.6	18.1	741.0	56.4	712.8	15.4
ELM06 WR35B-104	248	18,162	1.3	1.0052	2.4	0.1171	1.3	0.52	713.7	8.4	706.4	12.2	683.2	43.6	713.7	8.4
ELM06 WR35B-7	437	13,998	1.5	1.0436	1.9	0.1182	1.0	0.52	720.2	6.8	725.7	10.0	742.6	34.7	720.2	6.8
ELM06 WR35B-37	244	11,706	1.0	1.0383	2.6	0.1192	1.0	0.39	726.2	6.9	723.1	13.2	713.4	49.9	726.2	6.9
ELM06 WR35B-2	351	16,544	3.0	1.0436	2.4	0.1198	1.0	0.42	729.6	6.9	725.7	12.3	713.8	45.7	729.6	6.9
ELM06 WR35B-19	187	17,902	6.3	1.0571	2.5	0.1209	1.0	0.40	735.6	7.0	732.4	13.2	722.7	49.3	735.6	7.0
ELM06 WR35B-21	368	25,102	1.5	1.0566	2.5	0.1216	1.9	0.77	739.6	13.3	732.1	12.9	709.4	33.2	739.6	13.3
ELM06 WR35B-87	228	11,320	1.4	1.1068	4.1	0.1217	1.5	0.36	740.1	10.5	756.6	22.0	805.8	80.5	740.1	10.5
ELM06 WR35B-26	185	14,434	1.4	1.0585	1.6	0.1217	1.0	0.61	740.4	7.0	733.1	8.5	710.7	27.3	740.4	7.0
ELM06 WR35B-33	138	4454	2.4	1.1807	4.1	0.1256	1.7	0.42	762.7	12.5	791.7	22.6	874.1	77.0	762.7	12.5
ELM06 WR35B-9	407	30,394	1.1	1.1532	2.6	0.1294	1.3	0.48	784.6	9.3	778.8	14.4	762.1	49.1	784.6	9.3
ELM06 WR35B-23	235	26,916	1.9	1.4018	5.0	0.1368	4.1	0.83	826.3	32.0	889.7	29.5	1050.7	56.5	826.3	32.0
ELM06 WR35B-15	322	21,594	5.9	1.5368	1.6	0.1574	1.2	0.71	942.4	10.1	945.2	9.9	951.9	23.1	942.4	10.1
ELM06 WR35B-82	266	26,892	6.0	1.5787	2.3	0.1604	1.1	0.46	959.0	9.6	961.8	14.6	968.3	42.5	959.0	9.6

ELM06 WR35B-54	400	29,406	2.8	1.6047	2.3	0.1593	1.3	0.56	952.8	11.2	972.0	14.1	1015.7	37.6	1015.7	37.6
ELM06 WR35B-66	426	36,124	2.6	1.6794	1.9	0.1614	1.3	0.70	964.5	12.0	1000.8	12.2	1081.1	27.5	1081.1	27.5
ELM06 WR35B-31	364	38,276	4.5	1.4769	3.9	0.1415	1.7	0.45	853.2	13.8	921.0	23.5	1087.0	69.8	1087.0	69.8
ELM06 WR35B-52	437	44,886	1.3	1.9134	4.0	0.1825	2.4	0.59	1080.6	23.7	1085.8	27.0	1096.0	65.5	1096.0	65.5
ELM06 WR35B-107	1372	36,566	4.3	1.5486	4.5	0.1476	1.9	0.41	887.7	15.5	950.0	28.0	1097.1	82.7	1097.1	82.7
ELM06 WR35B-55	176	26,736	1.9	2.1254	2.2	0.1985	1.0	0.45	1167.2	10.7	1157.1	15.2	1138.1	39.0	1138.1	39.0
ELM06 WR35B-56	241	12,086	1.8	1.8511	4.3	0.1649	2.6	0.60	984.2	23.3	1063.8	28.1	1231.0	67.2	1231.0	67.2
ELM06 WR35B-72	156	3568	0.8	2.2321	5.7	0.1798	3.8	0.66	1065.6	37.0	1191.2	39.9	1426.8	81.2	1426.8	81.2
ELM06 WR35B-24	621	83,252	2.0	3.1700	2.8	0.2506	1.3	0.47	1441.7	16.9	1449.9	21.4	1461.9	46.4	1461.9	46.4
ELM06 WR35B-91	196	28,498	1.1	3.7329	2.2	0.2748	1.0	0.45	1565.0	13.9	1578.4	17.6	1596.4	36.6	1596.4	36.6
ELM06 WR35B-108	690	88,502	1.1	3.8894	2.4	0.2833	2.0	0.83	1607.9	27.9	1611.5	19.1	1616.1	24.6	1616.1	24.6
ELM06 WR35B-62	946	67,308	0.7	8.6196	6.9	0.3610	6.7	0.97	1986.8	113.9	2298.6	62.7	2588.6	28.7	2588.6	28.7

### Sample SOKOLOV 48.1

SOKOLOV48-1-14	694	13,029	1.2	0.34082	1.9	0.04573	1.2	0.62	288.2	3.3	297.8	4.9	373.4	33.9	288.2	3.3
SOKOLOV48-1-93	89	4381	0.5	0.57554	7.1	0.06913	4.1	0.58	430.9	17.0	461.6	26.3	617.2	125.0	430.9	17.0
SOKOLOV48-1-7	841	13,383	1.4	0.53813	4.4	0.06942	3.1	0.70	432.6	12.8	437.2	15.7	461.3	70.4	432.6	12.8
SOKOLOV48-1-87	676	26,246	0.9	0.57090	4.9	0.07193	3.4	0.68	447.8	14.6	458.6	18.2	513.1	79.0	447.8	14.6
SOKOLOV48-1-13	510	19,845	1.3	0.56949	2.4	0.07383	1.7	0.69	459.2	7.4	457.7	8.9	450.2	38.8	459.2	7.4
SOKOLOV48-1-12	821	30,549	6.9	0.61243	3.8	0.07694	2.0	0.51	477.8	9.0	485.1	14.8	519.5	72.3	477.8	9.0
SOKOLOV48-1-34	230	12,121	1.4	0.61860	3.8	0.07790	1.3	0.34	483.6	6.0	489.0	14.7	514.2	78.1	483.6	6.0
SOKOLOV48-1-89	144	7345	1.2	0.66876	4.0	0.07829	2.8	0.69	485.9	12.9	520.0	16.4	672.5	62.8	485.9	12.9
SOKOLOV48-1-26	628	28,764	1.0	0.63627	5.2	0.07878	2.4	0.47	488.9	11.5	500.0	20.7	551.3	101.2	488.9	11.5
SOKOLOV48-1-27	294	13,255	0.9	0.62120	5.1	0.07895	3.8	0.76	489.8	18.1	490.6	19.7	494.2	72.5	489.8	18.1
SOKOLOV48-1-5	139	7817	1.8	0.67605	4.8	0.07949	4.1	0.86	493.1	19.5	524.4	19.6	663.2	52.6	493.1	19.5
SOKOLOV48-1-57	122	6739	1.4	0.64213	3.3	0.07953	1.3	0.38	493.3	6.0	503.6	13.1	550.8	66.6	493.3	6.0
SOKOLOV48-1-80	299	15,518	1.6	0.63757	3.9	0.07979	3.5	0.89	494.8	16.4	500.8	15.3	528.1	38.6	494.8	16.4
SOKOLOV48-1-107	240	12,874	2.1	0.63253	3.9	0.08026	1.4	0.35	497.7	6.5	497.7	15.4	497.7	80.9	497.7	6.5
SOKOLOV48-1-109	378	8481	1.3	0.67700	5.5	0.08029	4.6	0.85	497.8	22.2	525.0	22.4	644.7	61.9	497.8	22.2
SOKOLOV48-1-88	496	22,315	0.8	0.66049	7.7	0.08151	3.7	0.48	505.1	18.0	514.9	31.2	558.6	148.0	505.1	18.0
SOKOLOV48-1-9	443	19,911	0.8	0.66840	5.1	0.08317	2.0	0.39	515.0	9.8	519.7	20.6	540.6	101.7	515.0	9.8
SOKOLOV48-1-81	451	11,592	1.7	0.73718	4.4	0.08340	2.0	0.46	516.4	10.1	560.8	18.9	745.1	82.2	516.4	10.1
SOKOLOV48-1-56	440	12,459	13.2	0.71212	1.7	0.08445	1.0	0.60	522.7	5.0	546.0	7.1	644.7	28.8	522.7	5.0
SOKOLOV48-1-96	247	14,754	0.9	0.71092	3.7	0.08579	2.0	0.54	530.6	10.1	545.3	15.5	607.3	66.7	530.6	10.1
SOKOLOV48-1-15	446	21,573	1.5	0.68798	3.7	0.08580	3.2	0.86	530.7	16.3	531.6	15.5	535.6	42.0	530.7	16.3
SOKOLOV48-1-105	282	18,469	1.0	0.70276	3.2	0.08683	1.7	0.53	536.7	8.6	540.4	13.3	556.1	59.0	536.7	8.6
SOKOLOV48-1-10	160	8774	1.3	0.74244	2.8	0.08687	1.3	0.46	537.0	6.5	563.8	12.0	673.7	52.7	537.0	6.5
SOKOLOV48-1-22	262	14,040	1.4	0.68493	4.5	0.08738	3.4	0.76	540.0	17.7	529.8	18.6	485.6	64.9	540.0	17.7

SOKOLOV48-1-106	115	6844	1.2	0.74548	5.9	0.08797	3.7	0.62	543.5	19.1	565.6	25.7	655.4	100.2	543.5	19.1
SOKOLOV48-1-110	278	17,281	1.1	0.71598	2.6	0.08851	2.0	0.77	546.7	10.5	548.3	11.0	554.8	36.5	546.7	10.5
SOKOLOV48-1-51	231	15,129	1.2	0.74021	2.4	0.08870	1.5	0.62	547.9	7.8	562.5	10.3	622.3	40.1	547.9	7.8
SOKOLOV48-1-76	349	18,048	1.9	0.71764	4.3	0.08893	2.4	0.55	549.2	12.5	549.3	18.2	549.6	78.2	549.2	12.5
SOKOLOV48-1-30	282	23,862	1.1	0.71673	3.2	0.08964	2.0	0.63	553.4	10.6	548.7	13.5	529.3	54.2	553.4	10.6
SOKOLOV48-1-86	323	28,042	2.1	0.74708	6.6	0.09029	5.3	0.81	557.2	28.5	566.5	28.5	604.0	82.3	557.2	28.5
SOKOLOV48-1-36	168	12,599	0.7	0.76679	4.6	0.09034	1.4	0.31	557.5	7.6	577.9	20.3	658.9	94.0	557.5	7.6
SOKOLOV48-1-20	188	10,848	0.8	0.76978	3.0	0.09110	1.0	0.33	562.1	5.4	579.6	13.4	649.1	61.7	562.1	5.4
SOKOLOV48-1-67	338	18,309	0.7	0.75369	2.4	0.09140	1.1	0.46	563.8	6.0	570.4	10.5	596.5	46.1	563.8	6.0
SOKOLOV48-1-45	427	27,937	2.5	0.78427	4.5	0.09329	3.4	0.76	575.0	18.6	587.9	19.9	638.2	62.4	575.0	18.6
SOKOLOV48-1-16	141	6939	1.0	0.80329	5.6	0.09372	3.4	0.60	577.5	18.5	598.7	25.2	679.7	95.1	577.5	18.5
SOKOLOV48-1-90	160	12,490	1.3	0.81496	2.7	0.09630	1.4	0.54	592.7	8.1	605.2	12.1	652.5	48.1	592.7	8.1
SOKOLOV48-1-92	166	13,310	0.9	0.83685	4.7	0.09718	3.7	0.79	597.9	21.3	617.4	21.9	689.7	62.0	597.9	21.3
SOKOLOV48-1-59	86	5383	1.0	0.90485	7.5	0.09817	5.2	0.69	603.6	29.9	654.3	36.2	833.2	112.9	603.6	29.9
SOKOLOV48-1-103	183	16,289	0.8	0.95956	4.9	0.10637	1.1	0.23	651.6	6.9	683.1	24.3	788.1	99.9	651.6	6.9
SOKOLOV48-1-17	463	26,311	1.0	1.00569	3.7	0.11289	1.1	0.30	689.5	7.3	706.7	18.9	761.8	74.9	689.5	7.3
SOKOLOV48-1-79	312	23,140	3.8	1.45600	5.0	0.14695	1.7	0.35	883.9	14.4	912.4	30.3	981.9	96.0	883.9	14.4
SOKOLOV48-1-55	454	29,741	4.2	1.46469	3.6	0.14907	1.0	0.28	895.8	8.4	915.9	21.5	964.9	69.8	895.8	8.4
SOKOLOV48-1-97	36	4764	1.4	1.72352	6.0	0.15867	2.7	0.45	949.4	24.0	1017.3	38.8	1166.6	106.7	949.4	24.0
SOKOLOV48-1-63	866	16,265	3.4	1.62092	4.7	0.16047	3.8	0.81	959.4	34.3	978.3	29.7	1021.1	55.7	959.4	34.3
SOKOLOV48-1-29	181	24,326	1.3	1.60039	2.9	0.16112	1.0	0.35	963.0	8.9	970.4	17.8	987.1	54.3	963.0	8.9
SOKOLOV48-1-28	56	7929	1.2	1.64263	3.3	0.16331	2.6	0.78	975.1	23.1	986.7	20.8	1012.6	42.2	975.1	23.1
SOKOLOV48-1-37	228	25,890	2.8	1.65086	6.6	0.16359	3.3	0.51	976.7	30.2	989.9	41.7	1019.3	115.3	976.7	30.2
SOKOLOV48-1-52	154	18,544	1.9	1.76282	5.6	0.16452	2.2	0.40	981.8	20.4	1031.9	36.5	1139.5	102.9	981.8	20.4
SOKOLOV48-1-33	264	39,495	0.6	1.66997	2.6	0.16524	1.5	0.56	985.8	13.5	997.2	16.6	1022.2	43.7	985.8	13.5
SOKOLOV48-1-3	179	21,797	3.2	1.63011	5.2	0.16543	3.8	0.74	986.9	35.0	981.9	32.7	970.7	71.8	986.9	35.0
SOKOLOV48-1-68	347	36,693	2.5	1.64399	2.9	0.16575	1.3	0.46	988.6	12.2	987.2	18.3	984.1	52.3	988.6	12.2
SOKOLOV48-1-54	296	30,123	2.3	1.73239	1.4	0.17030	1.0	0.69	1013.7	9.4	1020.6	9.3	1035.4	21.1	1013.7	9.4
SOKOLOV48-1-58	104	11,084	1.2	1.77836	3.9	0.17082	1.9	0.47	1016.6	17.5	1037.6	25.6	1081.9	69.7	1016.6	17.5
SOKOLOV48-1-62	147	19,816	4.9	1.71014	4.5	0.17134	2.2	0.49	1019.5	20.8	1012.3	28.6	996.9	78.8	1019.5	20.8
SOKOLOV48-1-32	138	20,776	2.3	1.75056	1.9	0.17294	1.0	0.53	1028.3	9.5	1027.4	12.2	1025.4	32.6	1028.3	9.5
SOKOLOV48-1-64	371	38,334	1.8	1.81576	2.2	0.17719	1.0	0.45	1051.6	9.7	1051.2	14.7	1050.2	40.5	1051.6	9.7
SOKOLOV48-1-25	107	22,106	1.4	2.08498	4.1	0.19514	2.2	0.54	1149.1	23.1	1143.9	28.1	1133.9	68.7	1133.9	68.7
SOKOLOV48-1-65	179	24,899	2.2	2.17466	3.4	0.20181	2.7	0.80	1185.0	29.5	1173.0	23.7	1150.8	40.7	1150.8	40.7
SOKOLOV48-1-1	122	10,977	0.9	2.08342	3.9	0.19178	3.4	0.88	1131.0	35.3	1143.4	26.5	1166.9	35.9	1166.9	35.9
SOKOLOV48-1-8	87	10,628	2.7	2.16460	3.1	0.19756	1.0	0.32	1162.2	10.6	1169.7	21.4	1183.7	57.5	1183.7	57.5
SOKOLOV48-1-40	225	33,553	3.0	2.26648	5.7	0.20389	2.5	0.44	1196.2	26.9	1201.9	39.9	1212.2	100.4	1212.2	100.4
SOKOLOV48-1-46	224	22,277	1.4	2.23811	3.9	0.20006	1.0	0.25	1175.6	10.7	1193.1	27.7	1224.8	74.9	1224.8	74.9

SOKOLOV48-1-23	138	8739	2.1	2.36689	3.6	0.20948	1.0	0.28	1226.0	11.2	1232.7	25.6	1244.2	67.5	1244.2	67.5
SOKOLOV48-1-108	107	14,263	3.4	2.38363	3.0	0.21048	1.2	0.40	1231.4	13.6	1237.7	21.6	1248.7	54.1	1248.7	54.1
SOKOLOV48-1-18	142	14,728	1.7	2.30148	3.1	0.20207	2.2	0.72	1186.5	24.2	1212.7	22.0	1259.8	42.3	1259.8	42.3
SOKOLOV48-1-100	279	43,115	1.1	2.62161	4.9	0.22886	3.4	0.69	1328.5	40.5	1306.7	35.8	1271.0	68.5	1271.0	68.5
SOKOLOV48-1-43	126	26,934	1.3	2.63559	3.3	0.22479	1.1	0.33	1307.1	12.6	1310.6	24.1	1316.3	59.9	1316.3	59.9
SOKOLOV48-1-82	147	15,019	1.6	2.73999	3.0	0.23324	1.7	0.55	1351.5	20.2	1339.4	22.2	1320.1	48.2	1320.1	48.2
SOKOLOV48-1-50	80	8239	1.1	2.19155	3.9	0.18495	2.4	0.64	1094.0	24.6	1178.4	26.9	1336.8	57.5	1336.8	57.5
SOKOLOV48-1-104	436	56,432	1.7	2.45313	6.5	0.20492	4.9	0.74	1201.7	53.2	1258.3	47.1	1356.5	84.1	1356.5	84.1
SOKOLOV48-1-70	210	31,309	2.1	2.56940	3.8	0.21367	2.3	0.60	1248.3	25.9	1292.0	27.9	1365.2	59.0	1365.2	59.0
SOKOLOV48-1-38	161	22,573	1.8	2.61178	4.3	0.21527	3.6	0.83	1256.8	40.6	1304.0	31.3	1382.3	45.2	1382.3	45.2
SOKOLOV48-1-99	53	7974	1.3	2.64862	4.7	0.21470	3.7	0.79	1253.8	42.6	1314.3	34.7	1414.2	54.8	1414.2	54.8
SOKOLOV48-1-6	237	35,007	1.9	2.99246	4.1	0.23898	1.5	0.37	1381.4	18.8	1405.7	31.2	1442.8	72.6	1442.8	72.6
SOKOLOV48-1-41	21	4281	1.6	3.06257	4.6	0.24176	2.7	0.59	1395.8	34.1	1423.4	35.0	1464.8	69.8	1464.8	69.8
SOKOLOV48-1-2	187	25,873	1.9	2.92909	3.8	0.23018	2.6	0.68	1335.5	31.1	1389.5	28.8	1473.4	52.9	1473.4	52.9
SOKOLOV48-1-39	68	16,238	1.2	2.91680	6.2	0.22804	4.8	0.78	1324.2	57.3	1386.3	46.7	1483.2	74.0	1483.2	74.0
SOKOLOV48-1-53	523	77,039	2.0	3.27194	5.1	0.25445	4.6	0.90	1461.4	59.6	1474.4	39.5	1493.2	42.4	1493.2	42.4
SOKOLOV48-1-101	147	34,481	1.6	3.46034	3.6	0.26764	1.9	0.54	1528.8	26.0	1518.2	28.0	1503.5	56.7	1503.5	56.7
SOKOLOV48-1-49	115	25,467	1.5	3.42295	2.3	0.26311	1.6	0.70	1505.7	21.4	1509.7	17.9	1515.2	30.8	1515.2	30.8
SOKOLOV48-1-69	174	38,197	1.2	3.39190	3.0	0.25855	1.8	0.60	1482.4	23.5	1502.5	23.3	1531.0	45.0	1531.0	45.0
SOKOLOV48-1-35	340	69,111	3.4	3.54465	3.5	0.26913	1.8	0.51	1536.4	24.9	1537.2	28.0	1538.4	57.0	1538.4	57.0
SOKOLOV48-1-73	167	37,490	1.3	3.60556	2.0	0.27097	1.8	0.87	1545.7	24.4	1550.8	16.2	1557.6	18.8	1557.6	18.8
SOKOLOV48-1-85	73	16,452	1.5	3.80745	3.5	0.28317	2.9	0.82	1607.3	40.9	1594.3	28.3	1577.2	38.1	1577.2	38.1
SOKOLOV48-1-94	592	106,489	1.7	3.69200	2.9	0.27311	1.7	0.59	1556.6	23.7	1569.6	23.2	1587.3	43.7	1587.3	43.7
SOKOLOV48-1-102	45	5769	2.1	3.20585	3.1	0.23620	2.1	0.68	1366.9	25.8	1458.6	24.0	1594.8	42.7	1594.8	42.7
SOKOLOV48-1-83	705	72,669	2.5	3.69635	3.7	0.27090	3.1	0.83	1545.4	42.2	1570.6	29.7	1604.6	39.0	1604.6	39.0
SOKOLOV48-1-95	466	39,075	1.1	3.34013	8.6	0.24315	7.3	0.85	1403.1	92.0	1490.5	67.0	1617.2	83.6	1617.2	83.6
SOKOLOV48-1-77	127	29,788	1.1	3.85987	2.0	0.28030	1.3	0.67	1592.9	18.9	1605.3	16.2	1621.7	27.8	1621.7	27.8
SOKOLOV48-1-84	103	25,730	0.9	3.98147	4.8	0.28849	4.4	0.93	1634.0	63.9	1630.4	38.7	1625.8	32.7	1625.8	32.7
SOKOLOV48-1-19	397	71,976	1.0	3.81483	4.1	0.27469	2.0	0.48	1564.5	27.5	1595.9	33.1	1637.5	66.9	1637.5	66.9
SOKOLOV48-1-66	92	17,424	0.8	4.05426	3.2	0.29115	2.0	0.62	1647.3	29.0	1645.2	26.2	1642.4	46.8	1642.4	46.8
SOKOLOV48-1-60	458	19,253	0.9	3.22658	5.3	0.23125	4.9	0.93	1341.0	59.5	1463.6	41.2	1646.1	37.3	1646.1	37.3
SOKOLOV48-1-75	259	39,409	2.0	3.62290	4.6	0.25455	3.7	0.80	1461.9	47.9	1554.6	36.5	1682.9	51.0	1682.9	51.0
SOKOLOV48-1-4	336	17,766	1.4	4.50325	3.9	0.30329	3.4	0.89	1707.6	51.5	1731.6	32.2	1760.6	32.7	1760.6	32.7
SOKOLOV48-1-24	285	54,387	0.6	4.82565	5.6	0.32289	5.1	0.91	1803.8	79.9	1789.4	47.2	1772.6	43.3	1772.6	43.3
SOKOLOV48-1-98	59	16,266	0.8	4.74524	2.9	0.31661	1.1	0.40	1773.2	17.6	1775.3	24.0	1777.7	48.0	1777.7	48.0
SOKOLOV48-1-72	51	9004	1.9	4.56621	2.9	0.30239	1.1	0.37	1703.2	16.3	1743.1	24.4	1791.4	49.4	1791.4	49.4
SOKOLOV48-1-91	180	45,797	1.0	4.85264	3.7	0.31919	1.0	0.29	1785.8	16.3	1794.1	30.8	1803.7	63.9	1803.7	63.9
SOKOLOV48-1-78	174	41,606	0.7	5.04152	2.7	0.32247	1.4	0.51	1801.8	21.6	1826.3	22.8	1854.4	41.8	1854.4	41.8

SOKOLOV48-1-42	63	15,929	0.9	5.28416	2.4	0.32913	1.5	0.64	1834.1	24.6	1866.3	20.7	1902.3	33.5	1902.3	33.5
SOKOLOV48-1-74	213	45,181	3.7	5.74647	4.8	0.35134	3.6	0.75	1941.0	60.5	1938.4	41.6	1935.6	56.9	1935.6	56.9
SOKOLOV48-1-11	149	25,071	1.7	6.15694	3.1	0.36342	1.0	0.32	1998.4	17.2	1998.4	27.4	1998.3	52.8	1998.3	52.8
SOKOLOV48-1-31	127	43,936	2.7	6.38810	4.7	0.37481	1.5	0.33	2052.0	27.1	2030.6	40.9	2009.0	77.9	2009.0	77.9
SOKOLOV48-1-48	66	26,208	0.6	11.19428	1.4	0.48155	1.0	0.71	2534.0	21.0	2539.4	13.2	2543.8	16.8	2543.8	16.8
SOKOLOV48-1-71	115	42,187	1.0	15.20437	4.2	0.55645	1.9	0.45	2851.9	43.8	2828.1	40.1	2811.2	61.3	2811.2	61.3
SOKOLOV48-1-47	120	37,751	1.1	14.78107	6.3	0.52670	5.6	0.90	2727.5	124.8	2801.3	59.6	2854.8	45.1	2854.8	45.1

**Sample Sokolov 48.2**

SOKOLOV_48-2_59	849	27,058	1.3	0.50416	3.5	0.06633	2.4	0.70	414.0	9.7	414.5	11.8	417.4	55.9	414.0	9.7
SOKOLOV_48-2_5	391	577,934	0.8	0.52822	2.7	0.06797	1.8	0.68	423.9	7.4	430.6	9.3	466.5	43.4	423.9	7.4
SOKOLOV_48-2_57	450	19,926	1.3	0.52885	2.2	0.06861	1.0	0.45	427.8	4.1	431.0	7.8	448.4	43.9	427.8	4.1
SOKOLOV_48-2_9	408	314,621	1.9	0.53138	4.6	0.06948	2.1	0.46	433.0	8.9	432.7	16.3	431.3	91.4	433.0	8.9
SOKOLOV_48-2_45	857	34,692	2.0	0.53917	3.6	0.07017	2.8	0.79	437.2	12.0	437.9	12.8	441.5	48.9	437.2	12.0
SOKOLOV_48-2_82	597	21,252	1.2	0.52791	2.8	0.07017	1.2	0.43	437.2	5.1	430.4	9.7	394.3	55.7	437.2	5.1
SOKOLOV_48-2_53	108	2718	1.6	0.50227	8.3	0.07042	2.0	0.25	438.7	8.6	413.2	28.1	273.3	184.3	438.7	8.6
SOKOLOV_48-2_92	607	35,921	1.3	0.53685	2.9	0.07054	2.2	0.75	439.4	9.3	436.3	10.4	420.2	43.8	439.4	9.3
SOKOLOV_48-2_86	389	57,950	1.1	0.54080	3.6	0.07087	1.9	0.52	441.4	8.0	439.0	12.9	426.1	68.9	441.4	8.0
SOKOLOV_48-2_26	725	34,929	1.2	0.54016	3.5	0.07188	2.2	0.62	447.5	9.4	438.5	12.6	391.7	62.6	447.5	9.4
SOKOLOV_48-2_97	133	15,297	1.4	0.57548	2.7	0.07290	1.6	0.58	453.6	6.9	461.5	10.0	501.3	48.3	453.6	6.9
SOKOLOV_48-2_46	262	17,072	0.9	0.58400	4.1	0.07472	2.9	0.69	464.5	12.8	467.0	15.4	479.4	65.5	464.5	12.8
SOKOLOV_48-2_108	492	46,805	2.4	0.59913	4.3	0.07562	1.1	0.26	469.9	4.9	476.7	16.3	509.4	90.9	469.9	4.9
SOKOLOV_48-2_77	100	5203	1.2	0.58509	5.6	0.07643	2.3	0.41	474.8	10.6	467.7	20.9	433.3	113.3	474.8	10.6
SOKOLOV_48-2_48	268	17,790	2.1	0.60177	3.4	0.07778	2.1	0.63	482.8	9.8	478.4	12.8	456.9	58.2	482.8	9.8
SOKOLOV_48-2_69	288	3297	1.3	0.58246	7.3	0.07865	1.2	0.17	488.0	5.8	466.0	27.3	359.1	162.5	488.0	5.8
SOKOLOV_48-2_62	382	20,273	1.7	0.59684	4.6	0.07893	2.3	0.50	489.7	11.0	475.2	17.6	405.8	89.4	489.7	11.0
SOKOLOV_48-2_50	644	50,927	2.5	0.68872	3.1	0.08650	1.0	0.32	534.8	5.1	532.0	12.8	520.2	64.3	534.8	5.1
SOKOLOV_48-2_16	142	21,475	1.1	0.71888	3.4	0.08787	1.0	0.29	542.9	5.2	550.0	14.4	579.4	70.7	542.9	5.2
SOKOLOV_48-2_88	638	30,413	1.6	0.71182	3.3	0.08809	1.0	0.30	544.2	5.2	545.8	14.0	552.6	68.9	544.2	5.2
SOKOLOV_48-2_12	165	7365	0.7	0.71423	3.8	0.08920	1.3	0.33	550.8	6.6	547.3	16.0	532.4	78.2	550.8	6.6
SOKOLOV_48-2_44	203	6612	0.7	0.70223	4.4	0.08942	3.1	0.71	552.1	16.4	540.1	18.4	489.8	68.6	552.1	16.4
SOKOLOV_48-2_3	51	47,992	0.8	0.74139	7.7	0.08995	2.9	0.38	555.2	15.6	563.2	33.3	595.5	154.2	555.2	15.6
SOKOLOV_48-2_66	286	23,616	2.0	0.76314	4.5	0.09418	1.0	0.22	580.2	5.5	575.8	19.8	558.6	96.0	580.2	5.5
SOKOLOV_48-2_11	714	38,396	2.8	0.76007	3.8	0.09442	1.7	0.44	581.6	9.3	574.1	16.7	544.2	74.8	581.6	9.3
SOKOLOV_48-2_37	94	5852	1.2	0.80210	4.8	0.09818	3.6	0.75	603.7	20.7	598.0	21.6	576.3	68.7	603.7	20.7
SOKOLOV_48-2_31	133	17,438	1.1	0.85718	5.0	0.09973	1.4	0.28	612.8	8.1	628.6	23.4	685.8	102.4	612.8	8.1
SOKOLOV_48-2_68	103	2080	1.5	0.85794	10.4	0.10873	1.2	0.11	665.4	7.5	629.0	48.8	500.2	228.3	665.4	7.5
SOKOLOV_48-2_36	84	2964	0.9	0.90297	6.1	0.11084	1.8	0.30	677.6	11.6	653.3	29.4	570.2	126.9	677.6	11.6



SOKOLOV_48-2_10	331	502,861	5.3	1.47704	2.6	0.15254	1.4	0.54	915.2	11.8	921.0	15.5	934.9	44.3	934.9	44.3
SOKOLOV_48-2_30	556	8364	7.4	1.47939	2.5	0.15185	1.7	0.67	911.3	14.2	922.0	15.2	947.5	38.1	947.5	38.1
SOKOLOV_48-2_34	162	21,716	2.2	1.67462	2.8	0.16831	1.1	0.41	1002.8	10.6	998.9	17.8	990.4	51.9	990.4	51.9
SOKOLOV_48-2_52	100	18,266	2.0	1.47761	3.2	0.14828	2.3	0.73	891.3	19.4	921.2	19.2	993.6	43.7	993.6	43.7
SOKOLOV_48-2_1	680	775,643	1.1	1.49010	3.3	0.14846	2.0	0.60	892.3	16.8	926.4	20.4	1008.2	54.2	1008.2	54.2
SOKOLOV_48-2_80	111	48,705	1.5	1.70894	3.4	0.16995	1.5	0.45	1011.8	14.1	1011.9	21.5	1012.0	60.9	1012.0	60.9
SOKOLOV_48-2_39	308	110,622	3.4	1.73760	2.7	0.17215	1.3	0.46	1024.0	12.0	1022.6	17.7	1019.6	49.3	1019.6	49.3
SOKOLOV_48-2_13	322	11,695	3.0	1.82464	3.4	0.18049	1.2	0.35	1069.7	11.8	1054.4	22.1	1022.8	63.9	1022.8	63.9
SOKOLOV_48-2_25	92	21,211	2.7	1.79848	3.9	0.17764	1.3	0.33	1054.1	12.5	1044.9	25.1	1025.8	73.5	1025.8	73.5
SOKOLOV_48-2_84	665	6901	4.8	1.63490	3.8	0.16128	2.4	0.63	963.9	21.5	983.7	24.0	1028.3	59.8	1028.3	59.8
SOKOLOV_48-2_29	198	202,465	2.3	1.70934	2.9	0.16808	1.0	0.34	1001.5	9.3	1012.0	18.8	1034.8	55.8	1034.8	55.8
SOKOLOV_48-2_18	251	14,558	1.9	1.85193	3.6	0.18054	2.1	0.60	1069.9	21.2	1064.1	23.7	1052.2	57.9	1052.2	57.9
SOKOLOV_48-2_22	127	15,987	1.8	1.93427	2.7	0.18520	1.0	0.38	1095.3	10.1	1093.0	17.8	1088.5	49.5	1088.5	49.5
SOKOLOV_48-2_15	105	47,383	214.5	1.89189	3.4	0.18004	1.5	0.43	1067.2	14.3	1078.2	22.7	1100.6	61.9	1100.6	61.9
SOKOLOV_48-2_105	88	28,155	1.5	1.96485	5.3	0.18530	3.5	0.66	1095.9	35.6	1103.5	35.7	1118.7	79.1	1118.7	79.1
SOKOLOV_48-2_58	213	22,295	1.9	2.08939	3.4	0.19415	1.6	0.48	1143.8	17.3	1145.3	23.5	1148.2	59.5	1148.2	59.5
SOKOLOV_48-2_83	48	8124	2.3	2.08019	3.5	0.19262	2.1	0.60	1135.5	21.5	1142.3	23.7	1155.1	55.0	1155.1	55.0
SOKOLOV_48-2_95	389	22,564	3.2	1.98184	3.2	0.18350	2.0	0.61	1086.1	19.6	1109.3	21.6	1155.3	50.2	1155.3	50.2
SOKOLOV_48-2_89	70	4896	2.6	2.10290	4.9	0.19440	2.7	0.56	1145.2	28.7	1149.8	33.9	1158.4	81.3	1158.4	81.3
SOKOLOV_48-2_51	68	14,269	2.2	2.07462	3.2	0.18960	2.2	0.68	1119.2	22.5	1140.5	22.1	1181.1	46.8	1181.1	46.8
SOKOLOV_48-2_109	163	24,904	2.7	2.20977	1.5	0.20181	1.0	0.67	1185.0	10.8	1184.1	10.4	1182.5	21.9	1182.5	21.9
SOKOLOV_48-2_85	13	10,137	0.8	1.99136	5.6	0.18172	1.9	0.34	1076.4	18.9	1112.6	37.7	1184.0	103.7	1184.0	103.7
SOKOLOV_48-2_8	17	15,482	1.3	1.71771	5.6	0.15653	2.5	0.45	937.4	22.1	1015.2	36.0	1186.9	98.7	1186.9	98.7
SOKOLOV_48-2_6	167	229,882	2.3	2.14738	2.2	0.19532	1.0	0.45	1150.1	10.5	1164.2	15.4	1190.4	39.3	1190.4	39.3
SOKOLOV_48-2_76	215	107,562	2.2	2.26875	3.0	0.20634	1.9	0.63	1209.3	20.7	1202.6	20.9	1190.6	45.4	1190.6	45.4
SOKOLOV_48-2_79	229	27,555	2.2	2.33186	3.1	0.21163	1.8	0.57	1237.5	20.0	1222.0	22.0	1194.9	50.1	1194.9	50.1
SOKOLOV_48-2_35	544	64,328	2.4	2.42248	2.8	0.21410	1.1	0.38	1250.6	12.2	1249.3	20.2	1247.0	50.8	1247.0	50.8
SOKOLOV_48-2_33	562	443,026	1.6	2.46766	2.2	0.21742	1.0	0.46	1268.2	11.5	1262.6	15.8	1253.1	38.0	1253.1	38.0
SOKOLOV_48-2_64	203	20,658	2.1	2.19848	3.2	0.19069	2.6	0.82	1125.1	26.9	1180.6	22.3	1283.6	35.8	1283.6	35.8
SOKOLOV_48-2_103	152	79,049	2.2	2.74783	2.6	0.23198	1.4	0.54	1344.9	16.9	1341.5	19.3	1336.1	42.4	1336.1	42.4
SOKOLOV_48-2_74	290	61,231	2.2	2.77658	4.5	0.23434	2.7	0.59	1357.2	32.4	1349.3	33.8	1336.7	70.8	1336.7	70.8
SOKOLOV_48-2_110	55	11,053	1.9	2.70535	3.8	0.22823	2.5	0.65	1325.2	29.4	1329.9	27.8	1337.5	54.9	1337.5	54.9
SOKOLOV_48-2_104	215	26,194	3.3	3.00558	4.0	0.24778	1.6	0.40	1427.0	20.2	1409.0	30.2	1381.9	69.9	1381.9	69.9
SOKOLOV_48-2_67	142	20,664	1.3	3.11140	2.8	0.25255	1.0	0.36	1451.6	13.0	1435.5	21.4	1411.7	49.6	1411.7	49.6
SOKOLOV_48-2_78	180	23,776	2.1	3.13369	3.9	0.25183	2.9	0.75	1447.9	37.6	1441.0	29.6	1430.8	48.4	1430.8	48.4
SOKOLOV_48-2_100	212	38,711	1.0	3.16985	2.9	0.25228	2.2	0.78	1450.2	29.1	1449.8	22.1	1449.3	33.9	1449.3	33.9
SOKOLOV_48-2_54	201	54,437	2.1	3.10785	2.1	0.24459	1.5	0.68	1410.5	18.4	1434.6	16.3	1470.6	29.5	1470.6	29.5
SOKOLOV_48-2_75	37	3303	0.8	3.41958	5.6	0.26904	2.4	0.43	1535.9	33.5	1508.9	44.3	1471.2	96.4	1471.2	96.4

SOKOLOV_48-2_90	79	23,976	2.2	3.22365	3.3	0.25268	1.9	0.57	1452.3	24.1	1462.9	25.2	1478.2	50.7	1478.2	50.7
SOKOLOV_48-2_41	550	56,310	2.2	3.45612	2.6	0.26794	1.2	0.49	1530.4	16.9	1517.3	20.1	1499.0	42.2	1499.0	42.2
SOKOLOV_48-2_102	108	85,720	1.9	3.33387	2.7	0.25619	1.0	0.36	1470.3	13.1	1489.0	21.4	1515.7	48.2	1515.7	48.2
SOKOLOV_48-2_24	180	98,784	1.6	3.60297	2.8	0.27584	1.1	0.38	1570.4	15.0	1550.2	22.3	1522.8	48.9	1522.8	48.9
SOKOLOV_48-2_73	147	30,504	1.3	3.50502	3.4	0.26760	2.1	0.62	1528.6	28.5	1528.3	26.6	1527.9	49.8	1527.9	49.8
SOKOLOV_48-2_71	92	14,042	1.9	3.59558	3.1	0.27357	1.6	0.51	1558.9	22.3	1548.6	24.8	1534.4	50.4	1534.4	50.4
SOKOLOV_48-2_7	273	741,096	1.1	3.54202	3.4	0.26770	1.0	0.30	1529.1	13.6	1536.7	26.8	1547.0	60.7	1547.0	60.7
SOKOLOV_48-2_47	164	46,672	1.3	3.68444	2.4	0.27768	1.1	0.46	1579.6	15.5	1568.0	19.1	1552.3	39.9	1552.3	39.9
SOKOLOV_48-2_63	153	63,784	1.1	3.68178	4.9	0.27541	3.7	0.75	1568.2	51.0	1567.4	38.8	1566.3	59.8	1566.3	59.8
SOKOLOV_48-2_87	360	129,230	2.7	3.29375	2.9	0.24544	1.9	0.65	1414.9	23.7	1479.6	22.2	1573.6	40.5	1573.6	40.5
SOKOLOV_48-2_56	242	45,900	1.4	3.96526	2.4	0.29005	1.0	0.42	1641.8	14.5	1627.1	19.4	1608.2	40.5	1608.2	40.5
SOKOLOV_48-2_21	251	14,119	1.4	3.87688	7.4	0.28081	5.9	0.80	1595.5	83.3	1608.9	59.6	1626.5	82.6	1626.5	82.6
SOKOLOV_48-2_28	197	22,236	1.3	4.01252	3.8	0.28951	1.0	0.27	1639.1	14.6	1636.7	30.7	1633.7	67.7	1633.7	67.7
SOKOLOV_48-2_60	185	106,908	2.3	4.04431	2.6	0.29167	1.8	0.68	1649.9	25.7	1643.2	21.1	1634.5	35.1	1634.5	35.1
SOKOLOV_48-2_94	167	48,224	1.0	4.03882	3.1	0.29002	1.0	0.34	1641.6	14.9	1642.0	24.9	1642.6	53.5	1642.6	53.5
SOKOLOV_48-2_55	151	57,494	1.6	4.16080	3.6	0.29681	2.4	0.66	1675.5	34.7	1666.3	29.4	1654.8	50.3	1654.8	50.3
SOKOLOV_48-2_107	355	58,495	1.6	4.21837	2.7	0.29943	1.9	0.71	1688.5	27.9	1677.6	21.8	1664.0	34.6	1664.0	34.6
SOKOLOV_48-2_20	216	57,164	0.7	4.09336	2.3	0.28870	2.0	0.87	1635.1	29.3	1653.0	18.9	1675.8	20.9	1675.8	20.9
SOKOLOV_48-2_91	26	12,605	1.0	4.12179	4.3	0.29049	2.6	0.59	1644.0	37.2	1658.6	35.4	1677.2	64.6	1677.2	64.6
SOKOLOV_48-2_72	326	160,355	1.5	4.20282	2.9	0.29458	1.3	0.44	1664.4	19.1	1674.6	24.1	1687.3	48.7	1687.3	48.7
SOKOLOV_48-2_81	387	161,290	3.5	4.35983	2.2	0.30523	1.2	0.57	1717.2	18.4	1704.8	17.8	1689.5	32.8	1689.5	32.8
SOKOLOV_48-2_106	112	73,670	0.9	4.34201	2.8	0.30364	1.1	0.40	1709.3	16.6	1701.4	23.1	1691.6	47.4	1691.6	47.4
SOKOLOV_48-2_2	116	495,421	0.7	4.35216	2.6	0.30060	1.2	0.48	1694.3	18.6	1703.3	21.6	1714.4	42.3	1714.4	42.3
SOKOLOV_48-2_96	186	28,567	1.0	4.18748	3.3	0.28679	2.9	0.89	1625.5	42.0	1671.6	27.0	1729.9	27.8	1729.9	27.8
SOKOLOV_48-2_61	465	175,789	2.4	4.59625	2.6	0.31308	1.0	0.39	1755.8	15.4	1748.6	21.3	1739.9	43.1	1739.9	43.1
SOKOLOV_48-2_42	245	5195	2.1	4.57820	4.0	0.31139	1.3	0.32	1747.6	19.8	1745.3	33.3	1742.6	69.2	1742.6	69.2
SOKOLOV_48-2_14	559	42,640	6.1	4.54959	4.6	0.30587	2.1	0.46	1720.3	32.3	1740.1	38.5	1763.9	74.9	1763.9	74.9
SOKOLOV_48-2_99	156	28,407	1.7	4.78895	3.6	0.32132	2.2	0.60	1796.2	34.0	1783.0	30.3	1767.5	52.5	1767.5	52.5
SOKOLOV_48-2_4	186	191,672	3.1	4.78861	2.2	0.31621	1.4	0.62	1771.2	21.7	1782.9	18.8	1796.6	31.9	1796.6	31.9
SOKOLOV_48-2_23	142	77,491	1.5	5.06847	3.3	0.32906	1.0	0.30	1833.8	16.0	1830.8	28.2	1827.5	57.5	1827.5	57.5
SOKOLOV_48-2_38	96	24,246	1.4	4.85985	3.5	0.31452	2.7	0.77	1762.9	41.6	1795.3	29.7	1833.2	41.1	1833.2	41.1
SOKOLOV_48-2_27	437	54,111	1.8	5.25299	3.7	0.33076	2.9	0.80	1842.1	47.2	1861.3	31.3	1882.7	39.3	1882.7	39.3
SOKOLOV_48-2_93	154	43,428	0.5	5.51200	4.1	0.34672	1.4	0.35	1918.9	23.8	1902.5	35.3	1884.5	69.2	1884.5	69.2
SOKOLOV_48-2_17	159	23,531	0.8	5.44975	4.6	0.33216	1.3	0.28	1848.9	20.6	1892.7	39.8	1941.2	79.8	1941.2	79.8
SOKOLOV_48-2_49	212	18,946	2.5	6.03942	2.4	0.36149	1.6	0.68	1989.2	27.6	1981.5	20.7	1973.5	31.0	1973.5	31.0
SOKOLOV_48-2_43	52	18,497	1.0	9.80425	3.5	0.45231	1.4	0.41	2405.5	28.9	2416.6	32.2	2425.9	54.0	2425.9	54.0
SOKOLOV_48-2_101	26	6525	1.7	14.83764	2.6	0.54310	1.6	0.59	2796.4	35.5	2804.9	25.1	2811.0	34.7	2811.0	34.7
SOKOLOV_48-2_32	87	73,217	1.3	14.95458	2.4	0.54186	1.8	0.76	2791.2	41.8	2812.4	23.1	2827.5	25.8	2827.5	25.8

**Sample Sokolov 49.1**

SOKOLOV49-1-86	827	50,503	0.6	0.51857	2.6	0.06878	1.0	0.39	428.8	4.1	424.2	8.9	399.2	52.7	428.8	4.1
SOKOLOV49-1-57	285	7636	0.7	0.54460	4.5	0.06919	1.2	0.27	431.3	5.1	441.5	16.1	494.8	95.6	431.3	5.1
SOKOLOV49-1-19	249	11,830	0.8	0.53743	3.7	0.06934	1.5	0.40	432.2	6.2	436.7	13.1	460.7	75.2	432.2	6.2
SOKOLOV49-1-24	318	16,242	0.7	0.54651	5.4	0.06952	2.6	0.48	433.2	11.0	442.7	19.5	492.2	104.8	433.2	11.0
SOKOLOV49-1-20	431	18,807	0.4	0.54330	2.6	0.06976	1.0	0.38	434.7	4.2	440.6	9.5	471.4	54.3	434.7	4.2
SOKOLOV49-1-61	737	22,189	1.1	0.54966	5.2	0.07012	2.4	0.45	436.9	10.0	444.8	18.8	485.8	102.7	436.9	10.0
SOKOLOV49-1-13	430	15,713	0.7	0.54485	2.9	0.07058	1.0	0.35	439.7	4.3	441.6	10.3	451.7	60.1	439.7	4.3
SOKOLOV49-1-58	525	10,904	0.7	0.55665	4.7	0.07105	1.9	0.41	442.5	8.2	449.3	17.0	484.6	94.4	442.5	8.2
SOKOLOV49-1-59	400	23,395	0.7	0.55733	1.9	0.07134	1.0	0.54	444.2	4.3	449.8	6.7	478.2	34.5	444.2	4.3
SOKOLOV49-1-2	435	8024	1.1	0.53572	4.6	0.07139	1.3	0.28	444.5	5.5	435.6	16.3	388.7	99.2	444.5	5.5
SOKOLOV49-1-48	357	17,205	0.6	0.56290	2.1	0.07167	1.2	0.60	446.2	5.4	453.4	7.6	490.2	36.8	446.2	5.4
SOKOLOV49-1-7	186	2466	0.3	0.63116	6.4	0.07193	2.1	0.33	447.8	9.1	496.8	25.1	729.6	128.0	447.8	9.1
SOKOLOV49-1-18	328	23,971	1.2	0.54832	3.9	0.07202	2.8	0.70	448.3	11.9	443.9	14.1	421.1	62.4	448.3	11.9
SOKOLOV49-1-23	337	3859	1.3	0.62311	5.7	0.07204	2.8	0.49	448.5	12.2	491.8	22.4	699.0	106.6	448.5	12.2
SOKOLOV49-1-78	313	20,002	0.5	0.55214	2.9	0.07233	1.3	0.43	450.2	5.5	446.4	10.6	427.0	58.9	450.2	5.5
SOKOLOV49-1-10	90	4185	0.9	0.55427	5.3	0.07251	2.6	0.50	451.3	11.5	447.8	19.3	429.9	103.2	451.3	11.5
SOKOLOV49-1-34	265	12,313	0.5	0.56648	2.9	0.07258	1.0	0.34	451.7	4.4	455.7	10.8	476.2	61.0	451.7	4.4
SOKOLOV49-1-100	266	16,815	0.8	0.57856	2.2	0.07293	1.9	0.87	453.8	8.4	463.5	8.2	512.2	23.6	453.8	8.4
SOKOLOV49-1-99	107	7303	0.6	0.58105	4.8	0.07405	2.8	0.58	460.5	12.3	465.1	17.8	488.0	85.7	460.5	12.3
SOKOLOV49-1-72	103	6704	0.8	0.56731	3.5	0.07433	1.5	0.42	462.2	6.5	456.3	12.8	426.4	70.4	462.2	6.5
SOKOLOV49-1-45	282	10,341	1.0	0.57755	2.9	0.07463	2.6	0.87	464.0	11.4	462.9	10.9	457.5	31.5	464.0	11.4
SOKOLOV49-1-17	200	8654	0.5	0.58551	3.5	0.07490	2.0	0.59	465.6	9.2	468.0	12.9	479.6	61.5	465.6	9.2
SOKOLOV49-1-50	688	30,111	0.8	0.57910	2.3	0.07542	2.0	0.90	468.7	9.3	463.9	8.5	440.1	22.4	468.7	9.3
SOKOLOV49-1-33	233	14,804	0.4	0.58467	2.4	0.07560	1.4	0.59	469.8	6.5	467.5	9.2	455.8	43.8	469.8	6.5
SOKOLOV49-1-38	113	6257	1.1	0.60630	3.5	0.07631	1.7	0.49	474.1	7.8	481.2	13.3	515.5	66.5	474.1	7.8
SOKOLOV49-1-62	352	21,855	1.7	0.60596	3.6	0.07866	1.0	0.27	488.1	4.7	481.0	14.0	447.4	77.9	488.1	4.7
SOKOLOV49-1-35	215	14,095	1.2	0.64073	3.0	0.07979	1.6	0.55	494.9	7.9	502.8	12.0	538.8	55.4	494.9	7.9
SOKOLOV49-1-16	425	26,385	1.3	0.66001	3.6	0.08193	1.4	0.38	507.7	6.6	514.6	14.5	545.6	72.7	507.7	6.6
SOKOLOV49-1-32	1001	15,559	0.9	0.66537	2.2	0.08204	1.1	0.49	508.3	5.3	517.9	9.0	560.5	42.2	508.3	5.3
SOKOLOV49-1-66	263	20,754	1.5	0.66673	3.6	0.08424	2.9	0.82	521.4	14.6	518.7	14.5	506.9	45.5	521.4	14.6
SOKOLOV49-1-53	185	12,221	0.7	0.71476	3.1	0.08635	2.4	0.76	533.9	12.0	547.6	13.1	604.7	43.6	533.9	12.0
SOKOLOV49-1-79	160	11,548	1.2	0.76167	3.7	0.09208	2.3	0.62	567.8	12.3	575.0	16.1	603.4	62.6	567.8	12.3
SOKOLOV49-1-26	105	7714	0.5	0.75196	6.9	0.09408	1.7	0.25	579.6	9.6	569.4	30.2	528.6	147.0	579.6	9.6
SOKOLOV49-1-1	94	11,379	0.6	0.78605	3.7	0.09651	2.6	0.71	593.9	14.9	588.9	16.4	569.6	55.8	593.9	14.9
SOKOLOV49-1-84	413	13,259	0.5	0.81842	5.6	0.09818	3.0	0.54	603.8	17.4	607.2	25.6	619.9	101.9	603.8	17.4
SOKOLOV49-1-94	185	16,785	1.9	0.85607	2.8	0.10183	2.0	0.72	625.1	12.0	628.0	13.1	638.2	41.9	625.1	12.0
SOKOLOV49-1-102	141	17,246	30.0	0.95143	2.4	0.10939	1.0	0.41	669.2	6.4	678.8	12.1	710.9	47.3	669.2	6.4

SOKOLOV49-1-67	496	44,918	1.4	1.01301	3.1	0.11728	1.8	0.57	714.9	11.9	710.4	15.7	696.2	53.9	714.9	11.9
SOKOLOV49-1-52	591	63,114	3.8	1.45232	4.4	0.15098	2.3	0.52	906.4	19.4	910.8	26.5	921.5	77.3	906.4	19.4
SOKOLOV49-1-91	371	44,834	6.4	1.58312	2.1	0.16125	1.6	0.76	963.7	14.6	963.6	13.4	963.4	28.6	963.7	14.6
SOKOLOV49-1-63	656	82,787	1.5	1.56038	2.6	0.16129	1.0	0.39	964.0	9.2	954.6	16.2	933.1	49.3	964.0	9.2
SOKOLOV49-1-14	143	17,160	1.7	1.60520	2.3	0.16191	1.4	0.59	967.4	12.3	972.2	14.4	983.3	37.8	967.4	12.3
SOKOLOV49-1-95	76	10,669	0.8	1.63257	3.7	0.16220	1.7	0.45	969.0	15.1	982.8	23.5	1013.9	67.5	969.0	15.1
SOKOLOV49-1-11	96	11,978	1.5	1.74510	4.2	0.17398	2.5	0.59	1034.0	23.7	1025.4	27.1	1007.0	68.8	1007.0	68.8
SOKOLOV49-1-87	60	8097	1.4	1.71038	2.5	0.16878	1.0	0.40	1005.4	9.3	1012.4	16.0	1027.7	46.2	1027.7	46.2
SOKOLOV49-1-70	143	26,203	2.4	1.82551	2.7	0.18006	1.9	0.70	1067.3	18.8	1054.7	18.0	1028.6	39.7	1028.6	39.7
SOKOLOV49-1-55	335	44,487	2.8	1.84889	4.1	0.18232	2.1	0.50	1079.7	20.7	1063.0	27.3	1029.0	72.4	1029.0	72.4
SOKOLOV49-1-107	419	36,386	1.8	1.66940	3.0	0.16388	2.1	0.69	978.3	18.6	997.0	18.8	1038.2	43.1	1038.2	43.1
SOKOLOV49-1-3	534	84,488	6.5	1.65182	2.4	0.16152	1.5	0.64	965.2	13.7	990.2	15.1	1046.1	36.7	1046.1	36.7
SOKOLOV49-1-77	215	36,961	1.2	1.81445	2.4	0.17583	1.0	0.42	1044.1	9.6	1050.7	15.5	1064.3	43.3	1064.3	43.3
SOKOLOV49-1-49	494	69,035	1.9	1.91318	1.5	0.18407	1.1	0.74	1089.2	10.9	1085.7	9.9	1078.7	20.1	1078.7	20.1
SOKOLOV49-1-109	382	42,112	3.4	1.94373	4.6	0.18483	3.9	0.84	1093.3	38.8	1096.3	30.6	1102.2	48.8	1102.2	48.8
SOKOLOV49-1-69	205	43,020	3.7	1.99132	3.0	0.18926	1.3	0.42	1117.4	12.9	1112.6	20.4	1103.2	54.8	1103.2	54.8
SOKOLOV49-1-40	32	5353	0.6	1.82781	2.9	0.17311	2.0	0.69	1029.2	19.0	1055.5	19.0	1110.3	41.7	1110.3	41.7
SOKOLOV49-1-98	198	9227	1.1	1.89208	3.9	0.17894	3.1	0.80	1061.2	30.6	1078.3	25.9	1113.1	46.6	1113.1	46.6
SOKOLOV49-1-65	319	64,007	1.7	2.04320	3.4	0.19235	1.8	0.54	1134.1	18.9	1130.0	23.0	1122.3	56.8	1122.3	56.8
SOKOLOV49-1-51	98	9424	1.0	2.09983	5.0	0.19562	2.9	0.58	1151.8	30.5	1148.8	34.5	1143.1	81.4	1143.1	81.4
SOKOLOV49-1-106	234	40,749	1.7	2.05792	3.6	0.19165	1.3	0.36	1130.3	13.3	1134.9	24.3	1143.8	66.0	1143.8	66.0
SOKOLOV49-1-96	757	82,931	1.0	2.07699	2.5	0.19341	2.2	0.87	1139.8	22.9	1141.2	17.3	1143.9	24.4	1143.9	24.4
SOKOLOV49-1-93	24	3498	0.5	1.95852	5.3	0.18154	4.4	0.84	1075.4	44.0	1101.4	35.6	1153.1	57.1	1153.1	57.1
SOKOLOV49-1-54	105	15,739	1.6	2.16415	1.6	0.20030	1.0	0.61	1177.0	10.8	1169.6	11.4	1156.0	25.7	1156.0	25.7
SOKOLOV49-1-110	161	25,914	1.5	2.08457	2.3	0.19244	1.8	0.78	1134.6	18.6	1143.7	15.7	1161.1	28.2	1161.1	28.2
SOKOLOV49-1-75	228	35,384	1.6	2.20171	2.4	0.20314	1.6	0.66	1192.2	17.6	1181.6	17.1	1162.2	36.3	1162.2	36.3
SOKOLOV49-1-15	162	24,548	2.2	2.18327	3.0	0.19963	1.0	0.33	1173.3	10.7	1175.7	21.2	1180.1	57.0	1180.1	57.0
SOKOLOV49-1-29	186	31,698	8.9	2.23010	2.9	0.20333	1.1	0.37	1193.2	11.7	1190.6	20.5	1185.7	53.8	1185.7	53.8
SOKOLOV49-1-43	70	15,520	1.3	2.16746	3.1	0.19749	1.0	0.32	1161.8	10.6	1170.7	21.5	1187.0	58.0	1187.0	58.0
SOKOLOV49-1-27	144	18,107	1.1	2.32043	4.0	0.21137	1.0	0.25	1236.1	11.2	1218.6	28.2	1187.5	75.9	1187.5	75.9
SOKOLOV49-1-97	76	12,266	1.0	2.23353	4.8	0.20299	2.6	0.54	1191.4	28.5	1191.6	34.0	1192.1	80.6	1192.1	80.6
SOKOLOV49-1-108	276	24,697	1.1	2.27430	3.0	0.20580	2.3	0.76	1206.4	24.8	1204.4	21.0	1200.7	38.5	1200.7	38.5
SOKOLOV49-1-80	466	49,008	1.8	2.30939	2.7	0.20892	2.4	0.89	1223.0	26.6	1215.2	19.0	1201.2	24.2	1201.2	24.2
SOKOLOV49-1-74	93	16,027	0.7	2.32679	2.3	0.20998	1.6	0.69	1228.7	17.5	1220.5	16.1	1206.0	32.3	1206.0	32.3
SOKOLOV49-1-105	262	29,769	1.1	2.34509	2.9	0.20917	1.0	0.34	1224.4	11.2	1226.1	20.8	1229.0	53.8	1229.0	53.8
SOKOLOV49-1-92	69	7010	0.9	2.18381	3.3	0.19458	1.7	0.52	1146.1	17.7	1175.9	22.7	1231.1	54.9	1231.1	54.9
SOKOLOV49-1-30	250	38,404	0.5	2.47034	3.9	0.21967	1.2	0.31	1280.1	14.3	1263.4	28.3	1235.0	72.8	1235.0	72.8
SOKOLOV49-1-31	291	48,978	1.8	2.34043	3.1	0.20789	1.7	0.55	1217.5	19.2	1224.7	22.2	1237.2	51.0	1237.2	51.0

SOKOLOV49-1-44	185	28,478	1.2	2.45280	2.2	0.21709	1.6	0.76	1266.5	18.8	1258.2	15.5	1244.2	27.5	1244.2	27.5
SOKOLOV49-1-60	214	28,488	1.3	2.31168	2.2	0.20403	1.0	0.46	1197.0	10.9	1215.9	15.5	1249.6	38.0	1249.6	38.0
SOKOLOV49-1-56	164	31,263	1.7	2.44438	4.3	0.21517	1.2	0.28	1256.3	13.6	1255.8	30.6	1254.8	79.8	1254.8	79.8
SOKOLOV49-1-12	44	6278	1.6	2.56434	1.9	0.22232	1.6	0.83	1294.1	18.4	1290.5	13.8	1284.5	20.8	1284.5	20.8
SOKOLOV49-1-64	295	60,222	1.3	2.54649	2.6	0.21951	1.9	0.74	1279.3	22.5	1285.4	19.1	1295.7	34.0	1295.7	34.0
SOKOLOV49-1-6	22	4668	1.0	2.49631	5.0	0.21429	3.0	0.59	1251.6	33.6	1271.0	36.1	1303.8	78.0	1303.8	78.0
SOKOLOV49-1-73	107	19,488	0.9	2.78403	3.5	0.23543	2.2	0.62	1362.9	26.7	1351.3	25.9	1332.9	52.5	1332.9	52.5
SOKOLOV49-1-47	49	8511	0.9	2.79632	2.4	0.23387	2.2	0.89	1354.8	26.5	1354.6	18.2	1354.2	21.3	1354.2	21.3
SOKOLOV49-1-8	162	44,284	2.0	2.78747	2.8	0.23292	1.0	0.36	1349.8	12.2	1352.2	21.0	1356.0	50.5	1356.0	50.5
SOKOLOV49-1-90	276	56,560	1.2	2.90997	3.4	0.24159	1.5	0.44	1394.9	18.9	1384.5	26.1	1368.4	59.7	1368.4	59.7
SOKOLOV49-1-41	465	47,521	3.1	2.78861	2.8	0.22975	2.2	0.77	1333.2	26.3	1352.5	21.2	1383.2	34.6	1383.2	34.6
SOKOLOV49-1-104	209	33,704	0.7	2.98582	2.2	0.24087	1.2	0.53	1391.2	14.5	1404.0	16.6	1423.5	35.4	1423.5	35.4
SOKOLOV49-1-89	299	4952	1.6	2.31215	6.4	0.18535	3.6	0.55	1096.1	35.8	1216.0	45.7	1435.6	102.6	1435.6	102.6
SOKOLOV49-1-22	121	27,254	1.0	3.12151	2.4	0.24631	1.2	0.50	1419.4	15.5	1438.0	18.7	1465.6	39.9	1465.6	39.9
SOKOLOV49-1-36	208	24,378	0.6	2.68242	3.0	0.21090	2.5	0.83	1233.6	27.9	1323.6	22.1	1472.4	31.4	1472.4	31.4
SOKOLOV49-1-82	159	36,576	0.8	3.37582	3.4	0.26409	1.0	0.29	1510.8	13.5	1498.8	26.8	1481.9	62.0	1481.9	62.0
SOKOLOV49-1-39	371	64,405	1.7	3.31317	3.1	0.25799	2.5	0.82	1479.5	33.2	1484.2	23.8	1490.7	32.9	1490.7	32.9
SOKOLOV49-1-37	64	10,645	1.3	3.35063	3.3	0.25986	3.1	0.92	1489.1	40.7	1492.9	26.0	1498.3	24.5	1498.3	24.5
SOKOLOV49-1-46	91	19,163	0.4	3.42061	1.6	0.26406	1.0	0.63	1510.6	13.6	1509.1	12.5	1507.1	23.3	1507.1	23.3
SOKOLOV49-1-42	179	42,014	2.2	3.58715	3.3	0.26801	1.0	0.31	1530.7	13.9	1546.7	26.5	1568.6	59.4	1568.6	59.4
SOKOLOV49-1-71	724	30,108	1.3	3.59034	4.6	0.26623	1.3	0.29	1521.6	17.8	1547.4	36.2	1582.8	81.6	1582.8	81.6
SOKOLOV49-1-76	170	38,678	0.9	3.79774	2.4	0.28114	1.4	0.58	1597.1	19.7	1592.3	19.2	1585.8	36.3	1585.8	36.3
SOKOLOV49-1-81	127	27,413	0.6	3.92919	1.8	0.28481	1.0	0.56	1615.5	14.3	1619.7	14.5	1625.1	27.7	1625.1	27.7
SOKOLOV49-1-88	486	90,887	1.8	4.00606	3.3	0.28961	1.1	0.34	1639.6	16.5	1635.4	27.0	1630.1	58.0	1630.1	58.0
SOKOLOV49-1-2021	225	47,156	0.5	3.85184	2.1	0.27760	1.8	0.88	1579.3	25.5	1603.7	16.7	1635.8	18.6	1635.8	18.6
SOKOLOV49-1-103	582	133,104	1.7	3.88004	3.8	0.27752	2.7	0.72	1578.9	38.1	1609.5	30.4	1649.9	48.2	1649.9	48.2
SOKOLOV49-1-25	127	22,288	1.3	4.17352	2.8	0.29796	1.0	0.36	1681.2	14.8	1668.8	22.6	1653.3	47.6	1653.3	47.6
SOKOLOV49-1-83	139	15,354	0.7	4.04389	3.5	0.28591	1.5	0.43	1621.1	21.8	1643.1	28.8	1671.3	59.0	1671.3	59.0
SOKOLOV49-1-68	514	107,322	1.7	4.86786	4.3	0.32388	2.3	0.52	1808.6	35.7	1796.7	36.4	1782.9	67.1	1782.9	67.1
SOKOLOV49-1-4	31	16,393	1.4	4.87724	5.2	0.32256	2.1	0.39	1802.2	32.4	1798.3	44.2	1793.8	87.7	1793.8	87.7
SOKOLOV49-1-9	156	64,837	1.0	12.81567	3.1	0.50921	1.7	0.54	2653.3	36.5	2666.2	29.2	2676.0	43.2	2676.0	43.2
SOKOLOV49-1-85	94	34,362	0.8	13.38795	1.7	0.52379	1.4	0.81	2715.2	31.0	2707.4	16.3	2701.6	16.5	2701.6	16.5
SOKOLOV49-1-101	138	86,283	1.4	15.65269	6.1	0.56785	2.5	0.41	2899.0	58.7	2855.8	58.0	2825.5	90.3	2825.5	90.3

**Sample ELM06 WR7B**

ELM06 WR7B-87	585	6681	0.9	0.52777	6.6	0.06924	6.1	0.93	431.6	25.4	430.3	23.0	423.6	55.0	431.6	25.4
ELM06 WR7B-19	511	14,410	1.8	0.53799	4.4	0.06949	2.6	0.59	433.1	10.8	437.1	15.7	458.3	79.4	433.1	10.8
ELM06 WR7B-55	330	9590	1.3	0.54269	3.5	0.07027	3.0	0.86	437.8	12.9	440.2	12.6	452.7	39.9	437.8	12.9

ELM06 WR7B-90	626	19,072	1.9	0.54717	4.7	0.07062	4.6	0.97	439.9	19.4	443.1	16.8	460.0	23.2	439.9	19.4
ELM06 WR7B-82	678	1695	1.6	0.56455	4.5	0.07116	4.1	0.91	443.1	17.5	454.5	16.5	512.3	41.2	443.1	17.5
ELM06 WR7B-89	771	19,173	1.2	0.54730	6.4	0.07154	4.9	0.77	445.4	21.1	443.2	23.1	431.9	92.1	445.4	21.1
ELM06 WR7B-86	397	10,910	6.0	0.56157	5.3	0.07210	5.1	0.96	448.8	22.3	452.5	19.5	471.5	32.9	448.8	22.3
ELM06 WR7B-61	633	11,210	2.0	0.55092	3.8	0.07214	3.3	0.89	449.1	14.5	445.6	13.5	427.7	37.8	449.1	14.5
ELM06 WR7B-59	260	5411	1.9	0.56253	3.2	0.07219	2.4	0.74	449.3	10.4	453.2	11.8	472.8	47.9	449.3	10.4
ELM06 WR7B-23	382	5520	1.3	0.56945	8.3	0.07246	2.2	0.27	450.9	9.7	457.7	30.6	491.5	176.4	450.9	9.7
ELM06 WR7B-107	108	2841	0.9	0.59534	4.0	0.07253	2.8	0.69	451.4	12.1	474.3	15.3	586.5	63.4	451.4	12.1
ELM06 WR7B-64	145	4444	1.5	0.58323	4.5	0.07310	4.2	0.95	454.8	18.5	466.5	16.7	524.6	32.0	454.8	18.5
ELM06 WR7B-103	267	6293	2.2	0.58961	2.7	0.07327	2.3	0.87	455.8	10.2	470.6	10.0	543.5	28.7	455.8	10.2
ELM06 WR7B-101	342	5571	1.1	0.57864	4.8	0.07364	3.7	0.78	458.1	16.4	463.6	17.8	491.1	66.4	458.1	16.4
ELM06 WR7B-11	684	5575	0.5	0.58058	5.1	0.07503	4.5	0.87	466.4	20.1	464.8	19.2	457.1	56.6	466.4	20.1
ELM06 WR7B-12	62	1055	1.7	0.58492	4.6	0.07561	3.0	0.65	469.9	13.6	467.6	17.4	456.6	78.3	469.9	13.6
ELM06 WR7B-9	199	3982	1.3	0.61381	5.8	0.07581	3.4	0.59	471.1	15.6	486.0	22.6	556.7	103.2	471.1	15.6
ELM06 WR7B-99	174	4206	0.7	0.61989	4.4	0.07664	3.3	0.75	476.1	15.0	489.8	17.1	554.4	63.8	476.1	15.0
ELM06 WR7B-81	295	8873	3.7	0.60285	5.2	0.07690	3.5	0.68	477.6	16.1	479.0	19.7	486.0	83.6	477.6	16.1
ELM06 WR7B-36	129	2961	0.6	0.63678	5.1	0.07730	4.5	0.89	480.0	20.9	500.3	20.0	594.5	49.4	480.0	20.9
ELM06 WR7B-76	706	16,359	1.0	0.63098	4.5	0.08011	3.5	0.78	496.8	16.6	496.7	17.6	496.3	62.4	496.8	16.6
ELM06 WR7B-75	457	15,787	1.1	0.62636	4.1	0.08047	3.9	0.95	498.9	18.6	493.8	15.9	470.4	28.2	498.9	18.6
ELM06 WR7B-5	449	6463	0.7	0.63493	3.4	0.08200	2.3	0.70	508.0	11.5	499.2	13.3	458.7	53.6	508.0	11.5
ELM06 WR7B-44	300	7882	1.8	0.66051	4.4	0.08361	2.8	0.64	517.6	13.8	514.9	17.7	503.0	74.4	517.6	13.8
ELM06 WR7B-57	89	2435	0.6	0.72944	5.4	0.08541	3.8	0.70	528.3	19.1	556.2	23.0	672.1	81.7	528.3	19.1
ELM06 WR7B-52	841	1423	1.4	0.69941	7.2	0.08649	2.8	0.38	534.8	14.3	538.4	30.2	554.0	145.6	534.8	14.3
ELM06 WR7B-24	75	3325	0.9	0.77745	5.5	0.08750	4.7	0.85	540.7	24.2	584.0	24.5	756.2	61.7	540.7	24.2
ELM06 WR7B-92	473	10,595	0.9	0.70258	5.3	0.08817	4.1	0.77	544.7	21.4	540.3	22.2	521.8	73.7	544.7	21.4
ELM06 WR7B-72	101	1779	0.6	0.74222	6.3	0.08914	2.2	0.35	550.4	11.7	563.7	27.4	617.6	127.9	550.4	11.7
ELM06 WR7B-13	240	7586	1.9	0.72519	4.3	0.08982	3.8	0.88	554.5	20.0	553.7	18.3	550.5	45.1	554.5	20.0
ELM06 WR7B-69	83	2578	1.1	0.79408	5.3	0.09217	4.0	0.74	568.4	21.5	593.5	23.9	690.7	76.1	568.4	21.5
ELM06 WR7B-68	66	1917	2.1	0.77242	6.2	0.09243	4.6	0.74	569.9	25.0	581.1	27.2	625.4	88.6	569.9	25.0
ELM06 WR7B-93	512	12,390	1.0	0.77458	3.3	0.09473	3.0	0.91	583.4	16.6	582.4	14.5	578.2	29.7	583.4	16.6
ELM06 WR7B-67	146	3249	0.6	0.79874	4.6	0.09833	2.8	0.61	604.6	16.1	596.1	20.7	563.9	79.2	604.6	16.1
ELM06 WR7B-104	565	16,256	2.0	0.87826	6.8	0.10407	4.4	0.64	638.2	26.5	640.0	32.3	646.5	112.1	638.2	26.5
ELM06 WR7B-47	87	1041	0.7	0.99434	4.2	0.10888	2.9	0.69	666.3	18.4	700.9	21.4	813.7	64.5	666.3	18.4
ELM06 WR7B-39	508	10,327	6.2	0.99391	2.6	0.10935	2.3	0.92	669.0	14.9	700.7	13.0	803.8	21.6	669.0	14.9
ELM06 WR7B-102	469	21,677	6.4	1.02082	4.1	0.11660	3.7	0.91	711.0	24.7	714.3	20.8	724.9	36.5	711.0	24.7
ELM06 WR7B-71	229	7370	1.3	1.13455	7.1	0.12159	5.5	0.78	739.7	38.7	769.9	38.6	858.7	93.6	739.7	38.7
ELM06 WR7B-109	845	30,585	0.6	1.16497	5.4	0.13045	4.3	0.80	790.4	31.8	784.3	29.3	766.9	68.1	790.4	31.8
ELM06 WR7B-91	230	11,052	0.5	1.19668	4.4	0.13390	3.6	0.81	810.1	27.1	799.1	24.3	768.5	54.1	810.1	27.1

ELM06 WR7B-25	252	15,718	3.1	1.56251	3.1	0.15981	2.3	0.73	955.7	20.3	955.5	19.3	954.8	43.4	954.8	43.4
ELM06 WR7B-6	281	11,926	3.6	1.56626	4.1	0.16004	2.9	0.70	957.0	25.5	956.9	25.4	956.8	60.1	956.8	60.1
ELM06 WR7B-14	402	17,904	6.8	1.60123	4.8	0.16351	4.4	0.93	976.2	40.3	970.7	29.9	958.1	36.1	958.1	36.1
ELM06 WR7B-94	346	18,146	5.0	1.75351	3.3	0.17517	2.6	0.78	1040.5	25.0	1028.5	21.6	1002.8	42.7	1002.8	42.7
ELM06 WR7B-83	189	9208	1.0	1.69548	7.1	0.16854	6.5	0.92	1004.0	60.3	1006.8	45.1	1012.9	56.3	1012.9	56.3
ELM06 WR7B-63	186	9811	1.8	1.80310	4.9	0.17753	4.3	0.87	1053.5	41.7	1046.6	32.1	1032.2	48.7	1032.2	48.7
ELM06 WR7B-48	341	19,646	4.0	1.78285	2.1	0.17372	1.8	0.84	1032.6	16.9	1039.2	13.7	1053.2	22.9	1053.2	22.9
ELM06 WR7B-26	58	3541	0.8	1.93575	3.3	0.18717	2.7	0.81	1106.0	27.5	1093.5	22.4	1068.7	39.4	1068.7	39.4
ELM06 WR7B-60	240	10,915	2.1	1.90975	5.3	0.18348	4.4	0.83	1086.0	44.4	1084.5	35.6	1081.5	59.6	1081.5	59.6
ELM06 WR7B-21	260	13,052	1.5	1.86046	2.1	0.17854	1.7	0.79	1059.0	16.5	1067.1	14.0	1083.9	25.8	1083.9	25.8
ELM06 WR7B-41	183	4786	1.7	1.93252	5.2	0.18443	3.1	0.60	1091.1	31.4	1092.4	34.6	1095.0	82.6	1095.0	82.6
ELM06 WR7B-33	158	9233	1.6	2.00862	3.5	0.19061	3.4	0.95	1124.7	34.6	1118.4	23.8	1106.3	21.1	1106.3	21.1
ELM06 WR7B-79	61	4177	2.3	1.85106	4.3	0.17423	4.0	0.94	1035.4	38.4	1063.8	28.3	1122.5	30.2	1122.5	30.2
ELM06 WR7B-105	132	8079	2.4	2.07669	2.9	0.19446	2.3	0.79	1145.5	24.0	1141.1	19.8	1132.9	35.1	1132.9	35.1
ELM06 WR7B-1	332	27,480	5.9	2.03220	2.9	0.19009	2.6	0.88	1121.8	26.5	1126.4	19.9	1135.0	27.7	1135.0	27.7
ELM06 WR7B-50	199	9657	1.6	2.13425	4.7	0.19899	3.2	0.68	1169.9	34.0	1160.0	32.5	1141.4	68.8	1141.4	68.8
ELM06 WR7B-43	222	13,830	1.5	2.22231	5.4	0.20578	4.5	0.84	1206.3	49.8	1188.1	37.8	1155.1	58.2	1155.1	58.2
ELM06 WR7B-7	83	6416	1.7	2.21944	3.0	0.20012	1.3	0.45	1176.0	14.2	1187.2	20.8	1207.7	52.3	1207.7	52.3
ELM06 WR7B-74	110	10,347	1.4	2.31735	3.6	0.20852	3.3	0.93	1220.9	37.2	1217.6	25.7	1211.8	27.0	1211.8	27.0
ELM06 WR7B-53	687	40,259	2.9	2.29275	2.9	0.20462	2.7	0.94	1200.1	29.4	1210.1	20.2	1227.9	19.6	1227.9	19.6
ELM06 WR7B-62	20	1228	1.3	2.06198	4.9	0.18349	3.2	0.66	1086.0	31.9	1136.3	33.3	1233.6	72.1	1233.6	72.1
ELM06 WR7B-34	215	16,707	1.5	2.46802	3.0	0.21728	2.6	0.85	1267.5	29.7	1262.7	21.9	1254.6	30.9	1254.6	30.9
ELM06 WR7B-46	454	21,846	1.6	2.48311	2.7	0.21834	2.2	0.80	1273.1	25.2	1267.1	19.7	1257.0	31.7	1257.0	31.7
ELM06 WR7B-20	196	12,365	2.6	2.26713	5.4	0.19762	4.3	0.80	1162.5	45.3	1202.1	37.7	1274.0	63.2	1274.0	63.2
ELM06 WR7B-66	123	10,061	1.2	2.58252	3.3	0.22476	2.7	0.81	1307.0	32.0	1295.7	24.5	1277.1	38.4	1277.1	38.4
ELM06 WR7B-73	76	6229	1.5	2.59254	2.0	0.22304	1.7	0.83	1297.9	19.7	1298.5	14.8	1299.5	22.0	1299.5	22.0
ELM06 WR7B-15	321	22,114	4.5	2.69182	6.1	0.22526	4.8	0.79	1309.6	56.9	1326.2	45.1	1353.1	72.4	1353.1	72.4
ELM06 WR7B-70	333	17,484	2.5	2.85998	4.1	0.23916	3.2	0.79	1382.4	40.4	1371.4	30.8	1354.5	48.3	1354.5	48.3
ELM06 WR7B-31	174	11,823	1.8	2.87427	3.2	0.23774	3.0	0.92	1374.9	36.5	1375.2	24.2	1375.6	24.1	1375.6	24.1
ELM06 WR7B-98	379	4136	1.6	2.98155	6.2	0.24310	3.0	0.49	1402.8	38.1	1402.9	47.0	1403.1	103.2	1403.1	103.2
ELM06 WR7B-49	248	23,706	1.8	3.02578	3.7	0.24647	2.1	0.57	1420.2	26.6	1414.1	27.9	1405.0	57.4	1405.0	57.4
ELM06 WR7B-42	129	8513	2.1	2.97930	3.6	0.24250	3.0	0.81	1399.7	37.2	1402.4	27.6	1406.4	40.6	1406.4	40.6
ELM06 WR7B-45	336	23,795	1.9	2.98905	3.0	0.24295	2.4	0.81	1402.0	30.7	1404.8	22.8	1409.1	33.2	1409.1	33.2
ELM06 WR7B-18	98	8013	1.7	3.01354	3.4	0.24216	3.2	0.95	1397.9	40.6	1411.1	25.9	1430.9	20.3	1430.9	20.3
ELM06 WR7B-54	26	2548	0.9	3.17520	5.0	0.25258	3.8	0.76	1451.8	49.7	1451.1	38.6	1450.2	61.3	1450.2	61.3
ELM06 WR7B-77	170	15,147	2.7	3.18496	3.1	0.25287	2.7	0.88	1453.2	35.2	1453.5	23.9	1453.9	28.4	1453.9	28.4
ELM06 WR7B-108	384	15,792	2.7	3.20753	4.7	0.25190	4.1	0.88	1448.2	53.2	1459.0	36.2	1474.6	42.4	1474.6	42.4
ELM06 WR7B-88	129	11,444	2.1	3.37576	3.7	0.26339	2.7	0.72	1507.2	35.9	1498.8	29.2	1487.0	49.4	1487.0	49.4

ELM06 WR7B-35	117	5893	1.6	3.55242	4.4	0.27204	2.6	0.60	1551.2	36.3	1539.0	35.0	1522.2	66.9	1522.2	66.9
ELM06 WR7B-28	40	3912	0.9	3.38206	3.3	0.25673	2.6	0.77	1473.1	33.9	1500.2	26.2	1538.8	40.2	1538.8	40.2
ELM06 WR7B-30	66	5612	1.3	3.60360	4.3	0.27305	3.8	0.88	1556.3	52.8	1550.3	34.5	1542.2	38.6	1542.2	38.6
ELM06 WR7B-3	71	9793	1.3	3.70948	4.2	0.28015	3.2	0.75	1592.1	44.5	1573.4	33.6	1548.4	51.9	1548.4	51.9
ELM06 WR7B-100	192	19,559	2.8	3.54975	2.2	0.26664	1.0	0.45	1523.7	13.6	1538.4	17.6	1558.6	37.2	1558.6	37.2
ELM06 WR7B-95	667	37,582	2.9	3.67203	3.9	0.27466	3.2	0.82	1564.4	44.1	1565.3	30.8	1566.5	41.2	1566.5	41.2
ELM06 WR7B-8	329	20,569	2.6	3.82838	5.2	0.28411	4.0	0.77	1612.0	56.6	1598.7	41.6	1581.2	62.0	1581.2	62.0
ELM06 WR7B-97	148	15,510	1.0	3.93427	6.4	0.29133	5.2	0.82	1648.2	75.7	1620.8	51.7	1585.3	69.0	1585.3	69.0
ELM06 WR7B-2	283	25,857	3.5	3.90620	2.7	0.28599	2.5	0.91	1621.4	35.3	1615.0	22.0	1606.5	21.6	1606.5	21.6
ELM06 WR7B-110	533	48,560	3.2	3.90257	4.3	0.28570	4.0	0.93	1620.0	57.2	1614.2	34.6	1606.6	28.7	1606.6	28.7
ELM06 WR7B-85	699	26,739	2.4	3.92303	6.0	0.28673	5.4	0.91	1625.2	78.2	1618.4	48.4	1609.7	45.9	1609.7	45.9
ELM06 WR7B-65	256	24,839	1.0	4.08542	4.7	0.29414	4.0	0.84	1662.2	58.6	1651.4	38.7	1637.7	47.6	1637.7	47.6
ELM06 WR7B-40	127	12,751	0.7	4.20273	3.6	0.29843	2.5	0.70	1683.5	37.7	1674.6	29.8	1663.3	47.9	1663.3	47.9
ELM06 WR7B-37	337	27,639	1.9	4.26735	5.2	0.30273	4.1	0.78	1704.9	61.2	1687.1	43.0	1665.1	60.2	1665.1	60.2
ELM06 WR7B-38	76	7601	0.8	4.19702	5.6	0.29773	4.3	0.77	1680.1	64.0	1673.4	46.2	1665.1	66.7	1665.1	66.7
ELM06 WR7B-78	190	21,407	1.0	4.24903	4.7	0.29843	3.7	0.77	1683.5	54.5	1683.5	39.0	1683.6	55.4	1683.6	55.4
ELM06 WR7B-22	131	12,754	2.1	4.50875	8.0	0.31366	6.3	0.79	1758.7	97.4	1732.6	66.6	1701.2	90.5	1701.2	90.5
ELM06 WR7B-4	132	12,823	0.4	4.47898	5.0	0.30908	4.2	0.83	1736.2	63.3	1727.1	41.8	1716.1	52.1	1716.1	52.1
ELM06 WR7B-58	339	34,077	4.9	4.64110	4.5	0.31685	3.1	0.69	1774.3	48.0	1756.7	37.6	1735.8	60.0	1735.8	60.0
ELM06 WR7B-17	446	44,608	2.8	4.61916	4.1	0.30864	3.8	0.92	1734.0	57.7	1752.7	34.6	1775.1	30.3	1775.1	30.3
ELM06 WR7B-56	49	5920	1.1	5.39002	3.0	0.34156	2.7	0.91	1894.2	44.5	1883.3	25.6	1871.2	22.5	1871.2	22.5
ELM06 WR7B-10	63	8699	1.4	5.39573	4.5	0.33763	2.5	0.56	1875.3	40.6	1884.2	38.4	1894.0	67.0	1894.0	67.0
ELM06 WR7B-96	289	13,503	0.9	6.08286	3.5	0.36208	2.9	0.84	1992.0	50.4	1987.8	30.7	1983.4	34.4	1983.4	34.4
ELM06 WR7B-51	103	12,317	3.2	6.04713	3.8	0.34988	2.0	0.53	1934.0	33.4	1982.7	33.1	2033.7	57.2	2033.7	57.2
ELM06 WR7B-27	36	4242	1.0	7.45777	3.5	0.40067	3.3	0.93	2172.1	60.4	2167.9	31.4	2163.9	21.9	2163.9	21.9
ELM06 WR7B-29	21	2692	1.4	14.75841	3.2	0.54403	2.6	0.81	2800.3	59.4	2799.8	30.7	2799.4	30.9	2799.4	30.9

**Sample ELM06 WR30**

ELMWR30-55	284	6725	3.6	0.1633	7.3	0.0255	3.5	0.49	162.2	5.7	153.6	10.4	22.7	153.6	162.2	5.7
ELMWR30-53	347	3573	1.1	0.3053	4.7	0.0442	2.3	0.49	278.6	6.3	270.5	11.1	200.8	94.3	278.6	6.3
ELMWR30-93	341	3905	2.9	0.4882	3.6	0.0443	2.3	0.65	279.3	6.4	403.7	11.9	1196.1	53.2	279.3	6.4
ELMWR30-77	5569	7791	7.9	0.4330	0.7	0.0488	0.5	0.71	307.3	1.6	365.3	2.3	752.2	11.1	307.3	1.6
ELMWR30-92	235	3784	2.7	0.4983	4.4	0.0674	2.3	0.51	420.8	9.2	410.6	14.9	353.6	85.2	420.8	9.2
ELMWR30-8	157	9935	1.4	0.5381	4.9	0.0680	2.8	0.58	424.1	11.5	437.2	17.2	506.5	87.1	424.1	11.5
ELMWR30-54	209	107,264	2.4	0.5460	3.7	0.0705	2.4	0.66	439.0	10.3	442.3	13.2	459.9	61.7	439.0	10.3
ELMWR30-67	1481	22,842	1.6	0.5509	1.2	0.0705	0.9	0.72	439.2	3.7	445.6	4.3	478.9	18.3	439.2	3.7
ELMWR30-56	363	30,988	1.6	0.5476	2.6	0.0706	1.8	0.68	440.0	7.6	443.4	9.5	460.9	43.0	440.0	7.6
ELMWR30-7	857	26,775	0.8	0.5790	1.5	0.0732	1.1	0.72	455.2	4.9	463.8	5.7	507.0	23.3	455.2	4.9



ELMWR30-6	383	38,162	3.5	0.6205	2.4	0.0743	1.7	0.69	462.1	7.4	490.1	9.4	623.4	37.4	462.1	7.4
ELMWR30-51	335	6663	2.2	0.5974	3.0	0.0769	1.8	0.61	477.3	8.3	475.6	11.3	467.0	52.4	477.3	8.3
ELMWR30-48	409	14,385	1.1	0.6153	2.4	0.0785	1.6	0.67	487.1	7.5	486.9	9.2	485.8	39.2	487.1	7.5
ELMWR30-98	260	14,439	2.0	0.6242	3.2	0.0795	2.0	0.62	492.9	9.4	492.5	12.5	490.2	55.6	492.9	9.4
ELMWR30-11	218	57,016	2.7	0.6355	3.4	0.0796	2.2	0.65	493.9	10.4	499.5	13.2	525.2	55.8	493.9	10.4
ELMWR30-60	253	4434	1.3	0.6181	3.6	0.0802	2.0	0.56	497.6	9.6	488.7	14.0	447.0	66.4	497.6	9.6
ELMWR30-25	29	1845	1.0	0.7595	14.6	0.0824	8.0	0.55	510.7	39.2	573.7	63.9	831.9	254.6	510.7	39.2
ELMWR30-29	127	2980	3.4	0.6353	5.6	0.0844	2.9	0.51	522.5	14.3	499.4	22.3	394.6	109.3	522.5	14.3
ELMWR30-16	663	87,244	1.9	0.7193	1.5	0.0877	1.2	0.75	541.8	6.0	550.3	6.5	585.4	22.0	541.8	6.0
ELMWR30-4	83	3046	1.2	0.6739	7.2	0.0885	3.7	0.52	546.5	19.4	523.1	29.3	422.0	137.0	546.5	19.4
ELMWR30-21	152	4868	2.2	0.6810	4.4	0.0887	2.5	0.58	547.9	13.4	527.4	18.1	439.4	80.0	547.9	13.4
ELMWR30-81	1714	47,415	2.4	0.8267	0.9	0.0925	0.7	0.78	570.2	3.8	611.8	4.1	768.8	11.9	570.2	3.8
ELMWR30-63	528	11,097	5.6	0.7545	1.9	0.0933	1.3	0.68	574.9	7.0	570.9	8.2	554.9	30.3	574.9	7.0
ELMWR30-65	230	7869	3.1	0.7451	3.2	0.0940	2.0	0.62	579.2	10.9	565.4	13.7	510.0	54.5	579.2	10.9
ELMWR30-43	142	21,845	2.4	0.8327	3.9	0.0972	2.6	0.68	598.2	15.0	615.1	17.9	677.9	61.1	598.2	15.0
ELMWR30-9	315	44,673	1.0	0.9058	2.2	0.1027	1.6	0.71	630.1	9.4	654.8	10.6	740.9	32.5	630.1	9.4
ELMWR30-34	140	4509	1.9	0.9022	4.2	0.1027	2.5	0.60	630.2	15.2	652.9	20.2	732.3	70.7	630.2	15.2
ELMWR30-79	144	6575	2.0	0.8729	4.0	0.1049	2.5	0.62	643.3	15.5	637.1	19.1	615.4	68.2	643.3	15.5
ELMWR30-14	509	24,084	2.6	0.9416	1.6	0.1073	1.2	0.75	657.0	7.5	673.7	7.9	729.8	22.7	657.0	7.5
ELMWR30-86	1019	27,079	107.3	0.9498	1.1	0.1084	0.8	0.76	663.5	5.3	678.0	5.5	726.5	15.2	663.5	5.3
ELMWR30-87	341	13,172	8.8	0.9758	2.1	0.1123	1.5	0.70	686.1	9.5	691.4	10.3	708.9	31.1	686.1	9.5
ELMWR30-95	137	41,538	0.8	1.0481	3.4	0.1157	2.3	0.69	705.9	15.5	727.9	17.4	796.3	50.7	705.9	15.5
ELMWR30-94	421	489,425	1.2	1.0557	1.7	0.1187	1.3	0.77	722.9	8.8	731.7	8.7	758.9	22.2	722.9	8.8
ELMWR30-5	219	12,224	6.7	1.2817	2.4	0.1347	1.7	0.73	814.9	13.1	837.6	13.4	898.4	33.4	814.9	13.1
ELMWR30-96	297	11,396	1.2	1.3793	1.9	0.1425	1.4	0.74	858.7	11.6	880.1	11.4	934.5	26.7	858.7	11.6
ELMWR30-99	385	21,068	11.0	1.6167	1.5	0.1620	1.1	0.77	967.9	10.3	976.7	9.3	996.7	19.2	967.9	10.3
ELMWR30-85	137	6410	3.0	1.7743	2.7	0.1759	1.9	0.71	1044.5	18.6	1036.1	17.6	1018.4	38.4	1018.4	38.4
ELMWR30-24	68	18,517	2.1	1.9498	4.0	0.1880	3.1	0.76	1110.6	31.2	1098.4	27.0	1074.1	52.4	1074.1	52.4
ELMWR30-62	315	130,703	7.0	1.8390	1.5	0.1764	1.2	0.81	1047.2	11.9	1059.5	10.1	1084.9	18.2	1084.9	18.2
ELMWR30-49	456	33,811	5.3	1.9217	1.3	0.1815	1.0	0.80	1075.1	10.2	1088.7	8.6	1116.0	15.3	1116.0	15.3
ELMWR30-19	94	6720	5.8	2.1547	3.1	0.1979	2.3	0.75	1164.3	24.7	1166.6	21.4	1170.8	40.3	1170.8	40.3
ELMWR30-45	115	5507	2.8	2.1942	2.8	0.2006	2.0	0.72	1178.4	22.0	1179.2	19.7	1180.7	38.5	1180.7	38.5
ELMWR30-37	105	10,187	2.5	2.3047	3.0	0.2085	2.4	0.79	1220.9	26.2	1213.7	21.1	1200.9	36.2	1200.9	36.2
ELMWR30-17	1143	103,833	16.2	2.0426	0.7	0.1806	0.6	0.83	1070.5	6.1	1129.8	5.1	1245.6	8.0	1245.6	8.0
ELMWR30-18	305	21,450	2.6	2.1079	1.5	0.1845	1.3	0.82	1091.4	12.7	1151.4	10.7	1266.2	17.5	1266.2	17.5
ELMWR30-78	404	89,825	1.2	2.4349	1.2	0.2122	1.0	0.84	1240.3	11.3	1253.0	8.6	1274.8	12.9	1274.8	12.9
ELMWR30-75	317	14,461	3.0	2.4939	1.4	0.2170	1.1	0.79	1266.2	12.9	1270.3	10.2	1277.2	16.8	1277.2	16.8
ELMWR30-88	1214	56,056	3.7	2.4917	0.7	0.2120	0.6	0.84	1239.7	6.4	1269.6	4.9	1320.6	7.1	1320.6	7.1

ELMWR30-28	141	11,040	2.4	2.7378	2.2	0.2328	1.7	0.80	1349.2	20.9	1338.8	16.0	1322.2	25.0	1322.2	25.0
ELMWR30-82	350	24,533	3.4	2.4510	1.3	0.2078	1.1	0.82	1217.3	12.1	1257.7	9.6	1327.6	14.7	1327.6	14.7
ELMWR30-76	165	24,305	1.7	2.7126	1.9	0.2296	1.5	0.81	1332.3	18.5	1331.9	14.2	1331.3	21.8	1331.3	21.8
ELMWR30-32	180	37,139	2.3	2.8397	1.8	0.2385	1.5	0.83	1378.7	18.7	1366.1	13.6	1346.4	19.2	1346.4	19.2
ELMWR30-38	205	96,090	1.3	2.7487	1.7	0.2308	1.4	0.83	1338.5	17.0	1341.7	12.6	1346.9	17.9	1346.9	17.9
ELMWR30-70	328	16,862	3.0	2.7236	1.4	0.2277	1.1	0.81	1322.4	13.1	1334.9	10.0	1355.0	15.3	1355.0	15.3
ELMWR30-57	258	14,817	1.7	2.6579	1.5	0.2215	1.3	0.81	1289.7	14.6	1316.9	11.4	1361.2	17.3	1361.2	17.3
ELMWR30-33	706	77,444	2.2	2.3650	0.9	0.1954	0.8	0.84	1150.7	8.3	1232.1	6.7	1377.3	9.8	1377.3	9.8
ELMWR30-2	108	9793	2.0	2.6942	2.6	0.2194	2.1	0.80	1278.7	24.1	1326.9	19.2	1405.5	29.5	1405.5	29.5
ELMWR30-69	998	47,241	5.3	2.8057	0.7	0.2268	0.6	0.84	1317.7	7.2	1357.0	5.4	1419.6	7.4	1419.6	7.4
ELMWR30-3	35	33,704	2.7	3.0559	5.4	0.2389	4.5	0.82	1380.9	55.4	1421.7	41.5	1483.4	58.4	1483.4	58.4
ELMWR30-50	65	12,796	2.0	3.4503	3.5	0.2622	3.0	0.85	1501.1	39.6	1515.9	27.3	1536.7	34.2	1536.7	34.2
ELMWR30-44	28	1911	2.2	3.7114	6.1	0.2813	4.5	0.74	1597.8	64.0	1573.8	48.9	1541.7	77.1	1541.7	77.1
ELMWR30-22	355	48,892	24.8	3.8552	1.1	0.2878	0.9	0.86	1630.6	13.5	1604.4	8.8	1570.0	10.4	1570.0	10.4
ELMWR30-40	808	65,415	4.7	3.5196	0.7	0.2619	0.6	0.86	1499.7	8.5	1531.6	5.9	1576.0	7.2	1576.0	7.2
ELMWR30-27	77	12,132	0.9	3.8673	2.7	0.2867	2.2	0.82	1625.0	31.4	1606.9	21.4	1583.3	28.2	1583.3	28.2
ELMWR30-90	1049	52,101	11.7	2.8385	0.7	0.2087	0.6	0.85	1221.7	6.8	1365.8	5.4	1599.0	7.0	1599.0	7.0
ELMWR30-52	146	44,981	1.8	3.9960	1.8	0.2910	1.5	0.85	1646.7	21.8	1633.4	14.4	1616.3	17.4	1616.3	17.4
ELMWR30-84	1623	87,474	2.0	3.3248	0.5	0.2417	0.5	0.86	1395.5	5.8	1486.9	4.2	1619.7	5.0	1619.7	5.0
ELMWR30-47	170	18,300	1.5	4.1783	1.6	0.2933	1.4	0.85	1658.1	20.4	1669.8	13.5	1684.4	16.2	1684.4	16.2
ELMWR30-41	640	107,443	8.0	3.2539	0.9	0.2282	0.8	0.87	1325.2	9.2	1470.1	6.9	1686.0	8.2	1686.0	8.2
ELMWR30-97	375	24,719	5.3	3.9284	1.1	0.2750	0.9	0.85	1566.0	12.7	1619.5	8.7	1689.8	10.5	1689.8	10.5
ELMWR30-12	280	47,386	2.5	3.8154	1.3	0.2662	1.1	0.86	1521.7	14.6	1596.0	10.1	1695.5	11.9	1695.5	11.9
ELMWR30-100	602	47,269	1.7	3.8601	0.8	0.2674	0.7	0.86	1527.6	9.8	1605.4	6.8	1708.9	7.9	1708.9	7.9
ELMWR30-66	253	16,246	1.4	4.2920	1.3	0.2930	1.1	0.86	1656.6	16.7	1691.8	11.0	1735.7	12.6	1735.7	12.6
ELMWR30-71	78	19,170	1.9	4.3771	2.5	0.2967	2.2	0.86	1675.1	32.1	1708.0	21.0	1748.6	24.2	1748.6	24.2
ELMWR30-59	141	9730	1.8	4.7487	1.9	0.3169	1.7	0.87	1774.8	26.2	1775.9	16.3	1777.1	17.5	1777.1	17.5
ELMWR30-36	622	46,004	2.3	4.8959	0.8	0.3233	0.7	0.88	1805.6	11.0	1801.6	6.7	1796.8	6.8	1796.8	6.8
ELMWR30-13	386	44,483	2.0	4.6051	1.0	0.2996	0.9	0.87	1689.1	12.7	1750.2	8.2	1823.9	8.8	1823.9	8.8
ELMWR30-39	290	70,738	3.5	4.9726	1.2	0.3218	1.0	0.88	1798.7	16.1	1814.7	9.9	1833.0	10.0	1833.0	10.0
ELMWR30-15	693	117,424	1.8	4.7215	0.7	0.3033	0.7	0.88	1707.5	9.9	1771.1	6.2	1846.9	6.3	1846.9	6.3
ELMWR30-61	647	41,443	9.0	5.2025	0.7	0.3163	0.7	0.88	1771.4	10.2	1853.0	6.4	1945.9	6.4	1945.9	6.4
ELMWR30-73	368	12,877	3.7	4.9663	1.1	0.2927	0.9	0.88	1655.0	13.8	1813.6	9.1	2001.0	9.2	2001.0	9.2
ELMWR30-10	124	19,714	1.6	6.2151	1.7	0.3601	1.4	0.87	1982.7	24.6	2006.6	14.5	2031.2	14.4	2031.2	14.4
ELMWR30-91	561	33,647	3.8	5.1757	0.8	0.2953	0.7	0.88	1667.9	10.7	1848.6	7.0	2058.5	6.8	2058.5	6.8
ELMWR30-83	358	27,576	1.8	6.8503	1.0	0.3784	0.9	0.90	2068.9	15.4	2092.2	8.6	2115.3	7.4	2115.3	7.4
ELMWR30-1	92	32,254	2.0	14.5445	1.9	0.5295	1.9	0.95	2739.4	41.5	2785.9	18.5	2819.8	9.6	2819.8	9.6

**Sample ELM06 WR8**

ELM06 WR8-99	502	3648	1.8	0.24786	3.0	0.03451	1.9	0.63	218.7	4.1	224.8	6.1	289.4	53.5	218.7	4.1
ELM06 WR8-63	91	696	1.0	0.30769	9.2	0.03782	4.9	0.53	239.3	11.4	272.4	22.0	567.0	170.3	239.3	11.4
ELM06 WR8-23	217	1361	1.1	0.29432	10.4	0.03881	3.4	0.32	245.4	8.2	262.0	24.1	412.3	221.4	245.4	8.2
ELM06 WR8-10	84	478	2.6	0.25104	7.6	0.03952	4.5	0.59	249.8	10.9	227.4	15.5	1.5	148.5	249.8	10.9
ELM06 WR8-44	66	551	1.8	0.31504	9.7	0.03997	5.6	0.58	252.7	14.0	278.1	23.7	497.7	174.9	252.7	14.0
ELM06 WR8-94	625	3694	1.5	0.28796	4.0	0.04026	2.7	0.66	254.5	6.6	257.0	9.2	279.6	69.6	254.5	6.6
ELM06 WR8-56	756	4703	0.5	0.29938	4.2	0.04210	1.9	0.46	265.8	5.1	265.9	9.9	266.6	85.9	265.8	5.1
ELM06 WR8-75	435	2315	0.6	0.31839	11.4	0.04293	3.7	0.32	271.0	9.7	280.7	27.9	362.1	243.1	271.0	9.7
ELM06 WR8-40	353	2132	1.5	0.31325	6.4	0.04330	4.4	0.69	273.3	11.8	276.7	15.5	305.8	106.4	273.3	11.8
ELM06 WR8-45	433	1968	0.9	0.34101	24.0	0.04344	3.9	0.16	274.1	10.4	297.9	62.0	489.2	529.1	274.1	10.4
ELM06 WR8-27	1345	1550	1.6	0.33663	4.4	0.04439	1.5	0.34	280.0	4.1	294.6	11.2	412.3	91.9	280.0	4.1
ELM06 WR8-68	62	447	0.6	0.33842	9.2	0.04491	3.7	0.40	283.2	10.1	296.0	23.7	397.8	190.1	283.2	10.1
ELM06 WR8-107	386	3339	1.9	0.33749	6.5	0.04521	3.7	0.58	285.0	10.4	295.3	16.6	377.1	119.5	285.0	10.4
ELM06 WR8-104	416	3176	1.2	0.33656	6.9	0.04604	1.3	0.18	290.2	3.6	294.6	17.7	329.6	154.2	290.2	3.6
ELM06 WR8-97	228	1792	1.2	0.34517	5.6	0.04630	1.8	0.32	291.8	5.1	301.1	14.6	374.0	119.5	291.8	5.1
ELM06 WR8-79	1550	916	1.3	0.37925	12.5	0.04702	1.6	0.13	296.2	4.7	326.5	34.8	548.2	271.0	296.2	4.7
ELM06 WR8-18	263	1529	0.6	0.33223	4.1	0.04761	2.0	0.48	299.9	5.7	291.3	10.4	222.9	83.3	299.9	5.7
ELM06 WR8-51	52	496	1.2	0.32820	12.0	0.04789	3.9	0.33	301.6	11.6	288.2	30.1	181.1	265.1	301.6	11.6
ELM06 WR8-69	850	3819	1.1	0.35921	8.5	0.04846	1.8	0.21	305.0	5.4	311.6	22.9	361.1	188.3	305.0	5.4
ELM06 WR8-110	118	1047	1.4	0.36379	7.1	0.04940	4.5	0.64	310.9	13.8	315.0	19.3	346.1	123.9	310.9	13.8
ELM06 WR8-22	303	2229	1.2	0.36666	6.2	0.04977	3.7	0.59	313.1	11.2	317.2	16.9	347.3	113.6	313.1	11.2
ELM06 WR8-28	213	1740	1.1	0.36121	7.5	0.05022	4.4	0.59	315.9	13.7	313.1	20.3	292.4	139.4	315.9	13.7
ELM06 WR8-103	1055	7624	6.2	0.36664	4.9	0.05144	3.3	0.68	323.4	10.4	317.2	13.3	271.8	82.4	323.4	10.4
ELM06 WR8-8	997	1992	1.2	0.39433	6.5	0.05205	1.2	0.19	327.1	4.0	337.5	18.6	410.2	142.3	327.1	4.0
ELM06 WR8-106	522	3034	1.1	0.37793	5.8	0.05429	3.6	0.62	340.8	11.8	325.5	16.0	217.5	105.0	340.8	11.8
ELM06 WR8-31	110	1033	1.9	0.41965	8.8	0.05451	3.3	0.38	342.2	11.1	355.8	26.4	445.7	181.6	342.2	11.1
ELM06 WR8-82	99	1061	0.8	0.46212	7.0	0.05730	5.6	0.80	359.2	19.6	385.7	22.4	548.1	90.5	359.2	19.6
ELM06 WR8-78	331	2705	0.8	0.43051	3.7	0.05849	2.0	0.54	366.4	7.1	363.5	11.4	345.2	70.9	366.4	7.1
ELM06 WR8-13	88	987	1.2	0.45708	7.4	0.05897	4.0	0.55	369.4	14.5	382.2	23.6	460.8	137.5	369.4	14.5
ELM06 WR8-84	55	596	1.4	0.54508	12.7	0.06076	4.1	0.32	380.2	15.0	441.8	45.3	776.5	252.9	380.2	15.0
ELM06 WR8-20	182	2039	0.8	0.46152	5.6	0.06143	4.2	0.76	384.3	15.8	385.3	17.9	391.2	81.8	384.3	15.8
ELM06 WR8-43	78	976	1.5	0.50066	6.2	0.06154	2.3	0.38	385.0	8.7	412.1	20.9	567.2	124.3	385.0	8.7
ELM06 WR8-38	64	786	1.8	0.53429	8.4	0.06336	4.2	0.51	396.0	16.3	434.7	29.6	644.8	155.4	396.0	16.3
ELM06 WR8-90	327	2944	2.0	0.47561	4.4	0.06373	3.0	0.67	398.2	11.4	395.1	14.5	376.4	74.3	398.2	11.4
ELM06 WR8-74	201	2210	1.3	0.48546	6.3	0.06719	2.2	0.35	419.2	8.9	401.8	20.9	302.8	134.5	419.2	8.9
ELM06 WR8-4	305	3429	1.5	0.52577	3.4	0.06783	1.9	0.55	423.0	7.8	429.0	12.0	461.1	63.7	423.0	7.8
ELM06 WR8-91	399	2523	0.9	0.52510	4.4	0.06816	2.8	0.63	425.1	11.5	428.6	15.4	447.4	75.6	425.1	11.5

ELM06 WR8-14	447	5280	1.5	0.54778	4.1	0.06999	3.7	0.91	436.1	15.5	443.5	14.6	482.2	37.6	436.1	15.5
ELM06 WR8-21	1028	11,116	2.5	0.53086	2.7	0.07007	1.4	0.51	436.6	5.8	432.4	9.4	410.0	51.5	436.6	5.8
ELM06 WR8-30	2990	12,367	3.2	0.54185	6.4	0.07016	4.2	0.66	437.1	17.8	439.6	23.0	452.8	107.9	437.1	17.8
ELM06 WR8-16	276	2871	1.2	0.54380	4.4	0.07043	2.9	0.67	438.8	12.5	440.9	15.6	452.2	71.9	438.8	12.5
ELM06 WR8-66	921	10,009	3.5	0.55358	5.3	0.07075	2.2	0.40	440.7	9.2	447.3	19.3	481.8	107.6	440.7	9.2
ELM06 WR8-87	230	2823	2.6	0.53124	5.3	0.07106	3.6	0.68	442.5	15.4	432.6	18.7	380.3	87.6	442.5	15.4
ELM06 WR8-61	177	2402	1.6	0.59257	5.0	0.07139	3.1	0.62	444.5	13.4	472.5	19.0	610.7	85.3	444.5	13.4
ELM06 WR8-109	272	2936	1.0	0.54462	4.0	0.07201	2.2	0.55	448.2	9.4	441.5	14.3	406.2	74.9	448.2	9.4
ELM06 WR8-73	409	4322	0.8	0.55685	4.5	0.07208	2.3	0.51	448.7	10.1	449.5	16.5	453.4	86.7	448.7	10.1
ELM06 WR8-101	445	5066	1.1	0.55686	5.9	0.07220	2.6	0.44	449.4	11.4	449.5	21.6	450.0	118.6	449.4	11.4
ELM06 WR8-58	101	1095	1.3	0.59443	6.7	0.07231	4.3	0.64	450.0	18.6	473.7	25.3	589.9	111.7	450.0	18.6
ELM06 WR8-29	304	3419	1.6	0.54935	2.9	0.07239	1.4	0.48	450.5	6.0	444.6	10.3	413.8	56.0	450.5	6.0
ELM06 WR8-1	265	2883	1.2	0.56584	5.8	0.07243	3.5	0.61	450.8	15.4	455.3	21.3	478.3	101.6	450.8	15.4
ELM06 WR8-48	431	5605	2.3	0.57660	5.4	0.07303	2.9	0.53	454.4	12.5	462.3	20.0	501.5	100.9	454.4	12.5
ELM06 WR8-15	292	3665	1.3	0.57927	2.9	0.07486	1.7	0.58	465.4	7.4	464.0	10.6	457.1	51.7	465.4	7.4
ELM06 WR8-83	144	1468	2.5	0.62700	5.4	0.07493	2.4	0.45	465.8	10.9	494.2	21.0	628.3	103.0	465.8	10.9
ELM06 WR8-33	502	6662	1.6	0.58878	3.2	0.07531	2.3	0.71	468.1	10.2	470.1	12.0	479.9	49.1	468.1	10.2
ELM06 WR8-32	573	7796	1.5	0.59593	4.2	0.07547	2.5	0.59	469.0	11.1	474.6	15.9	501.9	74.7	469.0	11.1
ELM06 WR8-5	172	2114	1.6	0.58722	4.1	0.07643	2.2	0.53	474.8	10.0	469.1	15.4	441.3	77.3	474.8	10.0
ELM06 WR8-9	208	2370	1.3	0.63114	10.7	0.07671	4.3	0.40	476.5	19.7	496.8	42.2	591.6	213.7	476.5	19.7
ELM06 WR8-64	380	5476	1.0	0.64017	5.6	0.08153	2.6	0.46	505.2	12.8	502.4	22.4	489.5	110.4	505.2	12.8
ELM06 WR8-39	358	4142	2.5	0.66695	7.1	0.08235	2.3	0.32	510.1	11.3	518.9	28.9	557.5	147.1	510.1	11.3
ELM06 WR8-42	87	1525	3.8	0.75729	5.5	0.08991	2.4	0.43	555.0	12.6	572.4	24.2	642.3	107.2	555.0	12.6
ELM06 WR8-70	251	3969	0.5	0.74731	5.2	0.09141	1.7	0.32	563.9	9.1	566.7	22.7	577.9	107.8	563.9	9.1
ELM06 WR8-2	54	855	1.4	0.80109	5.5	0.09712	3.6	0.66	597.5	20.7	597.4	24.7	597.2	88.4	597.5	20.7
ELM06 WR8-60	325	4386	1.4	0.82335	3.8	0.09744	1.6	0.43	599.4	9.2	609.9	17.3	649.3	73.0	599.4	9.2
ELM06 WR8-19	248	2932	0.6	1.10329	4.7	0.12031	3.3	0.70	732.3	22.7	754.9	24.8	822.5	69.1	732.3	22.7
ELM06 WR8-7	619	12,094	12.8	1.17853	7.6	0.12177	6.7	0.88	740.7	46.9	790.6	41.6	934.0	72.5	740.7	46.9
ELM06 WR8-77	238	4652	1.5	1.21949	4.2	0.13183	3.2	0.76	798.3	24.3	809.5	23.7	840.5	56.9	798.3	24.3
ELM06 WR8-35	302	6740	1.2	1.24305	3.1	0.13389	1.4	0.47	810.0	10.9	820.3	17.2	848.1	56.1	810.0	10.9
ELM06 WR8-85	290	6309	0.8	1.26217	6.0	0.13794	5.0	0.83	833.0	39.1	828.9	34.0	817.9	69.4	833.0	39.1
ELM06 WR8-67	124	3358	2.1	1.39571	4.5	0.14621	3.6	0.80	879.7	29.4	887.1	26.4	905.6	54.7	879.7	29.4
ELM06 WR8-105	382	9352	3.8	1.41528	4.9	0.15251	2.7	0.56	915.0	23.5	895.4	29.4	847.2	85.2	915.0	23.5
ELM06 WR8-72	503	11,287	3.4	1.60827	7.1	0.15677	2.4	0.34	938.8	21.2	973.4	44.7	1052.4	135.5	938.8	21.2
ELM06 WR8-25	278	9612	4.0	1.96148	3.2	0.18833	1.5	0.46	1112.3	15.0	1102.4	21.5	1082.8	57.0	1082.8	57.0
ELM06 WR8-41	415	11,686	1.3	1.94477	5.2	0.18522	3.6	0.69	1095.4	36.5	1096.6	35.0	1099.1	75.2	1099.1	75.2
ELM06 WR8-80	331	10,006	2.5	1.95486	3.5	0.18612	2.3	0.66	1100.3	23.4	1100.1	23.6	1099.7	52.9	1099.7	52.9
ELM06 WR8-59	331	8703	2.7	2.14228	3.4	0.19898	1.1	0.31	1169.8	11.6	1162.6	23.8	1149.0	64.9	1149.0	64.9

ELM06 WR8-37	147	4934	1.6	2.08908	2.9	0.19336	1.7	0.58	1139.6	17.8	1145.2	20.1	1156.0	47.1	1156.0	47.1
ELM06 WR8-92	222	8313	1.8	2.49052	5.8	0.21703	4.5	0.79	1266.2	52.2	1269.3	41.7	1274.5	69.1	1274.5	69.1
ELM06 WR8-36	430	14,942	4.2	2.36443	3.1	0.20526	1.9	0.62	1203.5	21.1	1231.9	22.2	1282.0	47.8	1282.0	47.8
ELM06 WR8-108	224	8434	4.5	2.75212	4.3	0.23316	2.6	0.61	1351.0	31.6	1342.7	31.7	1329.3	65.3	1329.3	65.3
ELM06 WR8-88	1096	7603	2.9	2.75035	2.4	0.23127	1.5	0.61	1341.2	17.7	1342.2	17.8	1343.8	36.5	1343.8	36.5
ELM06 WR8-95	100	3796	2.6	2.83257	3.2	0.23706	2.1	0.64	1371.4	25.4	1364.2	24.3	1353.0	48.2	1353.0	48.2
ELM06 WR8-57	640	23,316	1.2	3.47759	4.8	0.25484	2.6	0.55	1463.4	34.5	1522.1	37.5	1604.8	73.9	1604.8	73.9
ELM06 WR8-6	399	14,921	2.5	3.91286	3.8	0.28537	2.2	0.59	1618.4	32.0	1616.3	30.8	1613.7	57.4	1613.7	57.4
ELM06 WR8-55	24	1349	2.5	4.11424	5.4	0.29265	2.3	0.43	1654.7	34.1	1657.1	44.2	1660.2	90.3	1660.2	90.3
ELM06 WR8-54	205	10,002	0.7	4.28253	5.4	0.30370	4.2	0.77	1709.6	63.1	1690.0	44.7	1665.8	63.7	1665.8	63.7
ELM06 WR8-86	344	16,044	2.0	4.54050	5.4	0.31276	2.1	0.38	1754.3	31.5	1738.4	44.9	1719.4	91.6	1719.4	91.6
ELM06 WR8-12	354	16,384	3.4	4.65795	4.7	0.30107	1.4	0.30	1696.6	21.1	1759.7	39.3	1835.5	81.2	1835.5	81.2
ELM06 WR8-65	435	21,570	2.2	5.31359	5.5	0.34197	2.5	0.45	1896.2	40.3	1871.1	46.7	1843.3	88.4	1843.3	88.4
ELM06 WR8-49	248	11,329	1.8	5.18683	4.6	0.33350	3.8	0.82	1855.3	61.0	1850.5	39.5	1845.0	48.5	1845.0	48.5
ELM06 WR8-34	114	8363	1.7	5.25790	2.9	0.33614	1.6	0.55	1868.1	25.5	1862.1	24.6	1855.3	43.6	1855.3	43.6
ELM06 WR8-46	134	6146	1.5	5.49211	5.3	0.34904	1.0	0.19	1930.0	16.7	1899.4	45.5	1866.0	93.9	1866.0	93.9
ELM06 WR8-89	239	10,065	3.6	5.10875	5.5	0.31933	2.5	0.45	1786.5	38.6	1837.6	46.8	1895.9	88.5	1895.9	88.5
ELM06 WR8-17	155	7810	2.2	5.59756	3.7	0.34898	1.6	0.44	1929.7	27.2	1915.7	31.7	1900.6	59.1	1900.6	59.1
ELM06 WR8-47	853	49,722	2.4	5.57139	4.2	0.34637	2.9	0.70	1917.2	48.3	1911.7	35.8	1905.7	53.4	1905.7	53.4
ELM06 WR8-102	162	6685	1.8	5.77298	6.5	0.35890	4.1	0.62	1977.0	69.5	1942.4	56.6	1905.7	91.7	1905.7	91.7
ELM06 WR8-3	283	15,165	5.6	5.71499	3.8	0.34971	2.0	0.53	1933.2	33.7	1933.6	32.7	1934.1	57.3	1934.1	57.3
ELM06 WR8-71	135	8534	1.6	5.77307	3.7	0.35299	2.3	0.61	1948.9	38.7	1942.4	32.4	1935.4	52.9	1935.4	52.9
ELM06 WR8-53	21	1296	0.6	6.11772	5.8	0.36083	3.6	0.63	1986.1	62.2	1992.8	50.4	1999.7	79.5	1999.7	79.5
ELM06 WR8-50	115	6814	2.6	6.33109	5.3	0.37151	3.1	0.58	2036.5	53.6	2022.8	46.2	2008.8	76.0	2008.8	76.0
ELM06 WR8-81	137	8621	1.7	6.32688	4.7	0.37060	3.1	0.67	2032.2	54.2	2022.2	41.0	2012.0	62.0	2012.0	62.0
ELM06 WR8-96	553	34,714	5.2	6.44701	4.3	0.37313	1.6	0.37	2044.1	28.2	2038.7	38.1	2033.2	71.2	2033.2	71.2
ELM06 WR8-98	260	16,404	2.1	6.96111	5.1	0.38980	2.7	0.53	2121.9	48.7	2106.5	45.1	2091.4	75.6	2091.4	75.6
ELM06 WR8-93	383	20,341	3.0	7.57409	6.1	0.40330	5.0	0.81	2184.2	92.1	2181.8	55.0	2179.5	62.5	2179.5	62.5
ELM06 WR8-100	132	8509	1.4	8.19414	7.5	0.42124	6.4	0.86	2266.1	122.6	2252.7	68.0	2240.5	67.1	2240.5	67.1
ELM06 WR8-62	209	14,697	2.1	8.34322	5.5	0.42816	2.9	0.52	2297.4	56.2	2269.0	50.3	2243.5	81.6	2243.5	81.6
ELM06 WR8-76	34	3284	0.8	10.96194	3.8	0.46882	2.7	0.71	2478.4	55.6	2519.9	35.2	2553.5	44.3	2553.5	44.3
ELM06 WR8-26	512	36,579	2.2	10.50552	5.1	0.44879	3.1	0.60	2389.9	61.9	2480.4	47.8	2555.4	68.8	2555.4	68.8
ELM06 WR8-52	268	22,893	1.2	12.02071	4.0	0.49927	1.6	0.40	2610.7	34.5	2606.0	37.6	2602.4	61.2	2602.4	61.2

**Sample ELM06 WR46B**

ELM06 WR46B-23	355	2172	1.8	0.24038	5.1	0.03405	1.9	0.38	215.8	4.1	218.7	10.0	250.0	108.2	215.8	4.1
ELM06 WR46B-9	329	1986	1.1	0.25287	7.8	0.03487	3.2	0.41	220.9	6.9	228.9	15.9	311.5	161.0	220.9	6.9
ELM06 WR46B-65	458	3047	1.0	0.25435	3.7	0.03614	2.0	0.55	228.8	4.6	230.1	7.5	243.0	70.0	228.8	4.6

ELM06 WR46B-96	365	2501	1.0	0.25179	6.9	0.03627	1.7	0.25	229.7	3.9	228.0	14.2	210.9	155.6	229.7	3.9
ELM06 WR46B-1	480	3075	3.3	0.25473	3.7	0.03720	1.1	0.29	235.4	2.4	230.4	7.5	179.3	81.6	235.4	2.4
ELM06 WR46B-85	197	1590	1.2	0.26629	7.2	0.03740	2.3	0.31	236.7	5.2	239.7	15.4	269.2	157.1	236.7	5.2
ELM06 WR46B-95	435	2205	1.5	0.29901	9.3	0.03955	2.5	0.27	250.1	6.1	265.6	21.8	405.2	201.7	250.1	6.1
ELM06 WR46B-86	746	5433	1.0	0.30340	3.3	0.03981	1.4	0.41	251.6	3.4	269.1	7.9	423.5	68.2	251.6	3.4
ELM06 WR46B-92	456	4047	1.4	0.29456	5.3	0.03997	2.8	0.53	252.6	7.0	262.1	12.3	348.1	102.1	252.6	7.0
ELM06 WR46B-11	318	1450	1.6	0.28939	6.3	0.04010	1.5	0.24	253.5	3.8	258.1	14.3	300.2	138.9	253.5	3.8
ELM06 WR46B-33	168	1091	0.7	0.27316	3.7	0.04032	1.1	0.29	254.8	2.7	245.2	8.0	154.3	82.8	254.8	2.7
ELM06 WR46B-72	238	1395	1.2	0.29688	11.9	0.04042	3.7	0.31	255.4	9.3	264.0	27.7	340.3	257.5	255.4	9.3
ELM06 WR46B-14	152	1525	0.4	0.33846	5.9	0.04447	2.9	0.50	280.5	8.0	296.0	15.0	420.4	113.6	280.5	8.0
ELM06 WR46B-87	222	1732	1.7	0.30589	8.4	0.04455	7.0	0.83	280.9	19.2	271.0	20.0	185.8	108.8	280.9	19.2
ELM06 WR46B-31	155	1318	0.3	0.32340	5.8	0.04470	2.7	0.46	281.9	7.5	284.5	14.5	306.1	117.8	281.9	7.5
ELM06 WR46B-53	164	1292	1.9	0.33108	3.8	0.04499	1.3	0.35	283.7	3.7	290.4	9.7	344.7	81.2	283.7	3.7
ELM06 WR46B-109	142	1279	1.4	0.33547	6.8	0.04541	1.3	0.20	286.3	3.7	293.7	17.4	353.6	151.6	286.3	3.7
ELM06 WR46B-105	112	1106	0.6	0.37162	8.8	0.04569	4.4	0.50	288.0	12.4	320.9	24.1	566.8	165.7	288.0	12.4
ELM06 WR46B-70	491	4280	0.6	0.34337	2.7	0.04692	1.8	0.65	295.6	5.1	299.7	7.0	332.2	46.5	295.6	5.1
ELM06 WR46B-81	490	3584	1.6	0.34032	2.5	0.04710	1.5	0.59	296.7	4.4	297.4	6.6	303.3	46.8	296.7	4.4
ELM06 WR46B-94	341	3212	1.4	0.33488	2.9	0.04717	1.2	0.42	297.1	3.5	293.3	7.4	262.8	60.4	297.1	3.5
ELM06 WR46B-100	382	2748	1.4	0.33048	5.0	0.04727	1.9	0.39	297.7	5.7	289.9	12.6	227.6	106.3	297.7	5.7
ELM06 WR46B-108	647	8526	1.5	0.36024	9.5	0.04743	4.3	0.45	298.7	12.6	312.4	25.5	415.5	189.0	298.7	12.6
ELM06 WR46B-56	178	1737	1.2	0.33656	5.6	0.04747	3.9	0.69	299.0	11.3	294.6	14.4	259.7	93.8	299.0	11.3
ELM06 WR46B-21	343	3660	2.2	0.35378	5.3	0.04814	2.0	0.39	303.1	6.1	307.6	14.0	341.5	110.5	303.1	6.1
ELM06 WR46B-34	457	5466	1.0	0.35666	5.5	0.04850	2.8	0.51	305.3	8.4	309.7	14.6	343.2	106.5	305.3	8.4
ELM06 WR46B-15	724	5388	1.3	0.35823	2.3	0.04871	1.6	0.71	306.6	4.9	310.9	6.1	343.1	36.1	306.6	4.9
ELM06 WR46B-89	1774	11,133	2.2	0.35781	3.7	0.04916	2.2	0.59	309.4	6.6	310.6	9.9	319.8	67.8	309.4	6.6
ELM06 WR46B-74	407	3735	0.8	0.34796	4.1	0.04960	3.3	0.79	312.0	9.9	303.2	10.8	235.6	58.6	312.0	9.9
ELM06 WR46B-52	127	1305	1.0	0.39135	6.5	0.05003	2.9	0.45	314.7	8.9	335.4	18.5	481.0	128.2	314.7	8.9
ELM06 WR46B-98	537	5610	1.6	0.36701	3.2	0.05006	2.4	0.74	314.9	7.2	317.4	8.7	336.1	48.5	314.9	7.2
ELM06 WR46B-88	172	1489	1.7	0.36922	6.0	0.05013	4.6	0.77	315.3	14.2	319.1	16.4	346.8	85.7	315.3	14.2
ELM06 WR46B-28	273	2969	1.5	0.35287	2.6	0.05014	1.9	0.75	315.4	6.0	306.9	6.9	242.6	39.7	315.4	6.0
ELM06 WR46B-110	197	2142	1.2	0.39213	4.0	0.05194	2.2	0.54	326.4	6.9	335.9	11.4	402.1	74.8	326.4	6.9
ELM06 WR46B-50	557	1886	0.7	0.40963	4.5	0.05414	3.9	0.87	339.9	13.0	348.6	13.4	406.9	51.0	339.9	13.0
ELM06 WR46B-49	124	1213	1.2	0.42080	6.7	0.05422	3.5	0.52	340.3	11.6	356.6	20.2	463.9	126.9	340.3	11.6
ELM06 WR46B-67	111	1277	1.2	0.39856	4.7	0.05486	1.5	0.33	344.3	5.1	340.6	13.5	315.6	100.4	344.3	5.1
ELM06 WR46B-106	110	1425	1.2	0.43225	6.7	0.05563	2.7	0.40	349.0	9.1	364.8	20.5	466.3	136.3	349.0	9.1
ELM06 WR46B-32	356	4373	1.1	0.44019	2.6	0.05738	1.0	0.38	359.7	3.5	370.4	8.1	437.8	53.4	359.7	3.5
ELM06 WR46B-12	179	2301	0.9	0.44595	5.0	0.05739	2.0	0.40	359.7	7.1	374.4	15.7	466.6	101.6	359.7	7.1
ELM06 WR46B-3	162	1645	5.4	0.44314	6.3	0.05959	3.5	0.56	373.1	12.7	372.5	19.7	368.3	118.1	373.1	12.7

ELM06 WR46B-64	173	2283	1.1	0.47470	4.7	0.06063	2.3	0.49	379.5	8.4	394.4	15.3	483.0	90.5	379.5	8.4
ELM06 WR46B-20	423	4941	3.1	0.46258	4.5	0.06297	2.5	0.55	393.6	9.4	386.1	14.5	340.7	85.4	393.6	9.4
ELM06 WR46B-46	223	2735	2.5	0.48157	4.0	0.06441	1.6	0.41	402.4	6.4	399.2	13.2	380.6	82.3	402.4	6.4
ELM06 WR46B-37	156	1891	0.9	0.50099	4.4	0.06579	1.4	0.31	410.7	5.5	412.4	15.1	421.5	94.4	410.7	5.5
ELM06 WR46B-890	245	3057	1.1	0.51553	5.0	0.06682	2.4	0.48	416.9	9.7	422.2	17.2	450.8	97.1	416.9	9.7
ELM06 WR46B-63	336	4964	0.9	0.49837	4.0	0.06776	3.3	0.83	422.6	13.5	410.6	13.5	343.4	50.7	422.6	13.5
ELM06 WR46B-79	1036	9210	0.9	0.51118	3.6	0.06815	2.2	0.60	425.0	9.0	419.2	12.5	387.8	65.6	425.0	9.0
ELM06 WR46B-69	516	9654	1.4	0.53007	4.1	0.06851	3.1	0.77	427.2	12.9	431.9	14.3	456.8	57.4	427.2	12.9
ELM06 WR46B-101	920	13,055	2.7	0.54029	2.4	0.06910	1.5	0.63	430.7	6.4	438.6	8.7	480.2	41.6	430.7	6.4
ELM06 WR46B-77	504	5415	0.8	0.51535	2.5	0.06945	1.7	0.68	432.9	7.1	422.0	8.6	363.3	41.2	432.9	7.1
ELM06 WR46B-58	153	1819	1.0	0.54406	4.4	0.07025	2.5	0.57	437.6	10.6	441.1	15.6	459.2	79.5	437.6	10.6
ELM06 WR46B-45	1476	4816	1.5	0.52517	9.5	0.07038	2.3	0.24	438.4	9.6	428.6	33.4	376.1	208.8	438.4	9.6
ELM06 WR46B-7	622	6002	1.2	0.55832	2.0	0.07077	1.0	0.50	440.8	4.3	450.4	7.3	499.8	38.0	440.8	4.3
ELM06 WR46B-19	376	5145	0.9	0.55124	3.6	0.07089	1.2	0.34	441.5	5.1	445.8	12.9	468.0	74.3	441.5	5.1
ELM06 WR46B-5	158	1822	2.0	0.57274	5.5	0.07094	1.7	0.30	441.8	7.1	459.8	20.4	550.7	114.7	441.8	7.1
ELM06 WR46B-84	719	3512	1.1	0.54073	4.1	0.07094	1.5	0.36	441.8	6.4	438.9	14.7	423.7	86.1	441.8	6.4
ELM06 WR46B-16	826	9942	1.5	0.56072	6.8	0.07098	2.3	0.34	442.0	9.9	452.0	24.7	502.9	140.0	442.0	9.9
ELM06 WR46B-55	307	4124	1.5	0.56101	3.5	0.07165	1.7	0.49	446.1	7.3	452.2	12.7	483.2	67.1	446.1	7.3
ELM06 WR46B-6	157	1855	1.1	0.55745	5.5	0.07198	2.6	0.48	448.0	11.4	449.9	19.9	459.2	106.5	448.0	11.4
ELM06 WR46B-75	531	5985	1.1	0.58043	2.5	0.07456	2.0	0.81	463.6	9.1	464.7	9.3	470.4	32.3	463.6	9.1
ELM06 WR46B-4	150	2016	1.4	0.59158	4.7	0.07703	1.6	0.34	478.4	7.5	471.9	17.7	440.4	98.2	478.4	7.5
ELM06 WR46B-39	1643	17,406	0.6	0.65897	2.9	0.08377	2.0	0.70	518.6	10.0	514.0	11.6	493.4	45.2	518.6	10.0
ELM06 WR46B-29	75	1307	0.9	0.70245	4.0	0.08436	1.0	0.25	522.1	5.0	540.3	16.8	617.6	84.1	522.1	5.0
ELM06 WR46B-48	200	4403	2.5	0.83128	6.1	0.10241	3.9	0.64	628.5	23.1	614.3	28.0	562.3	102.1	628.5	23.1
ELM06 WR46B-36	55	1101	2.3	0.91027	5.6	0.10570	2.5	0.45	647.7	15.3	657.2	26.9	689.8	106.3	647.7	15.3
ELM06 WR46B-80	217	4862	0.8	0.89665	2.7	0.10647	1.7	0.64	652.2	10.6	649.9	12.9	642.0	44.5	652.2	10.6
ELM06 WR46B-17	1366	35,081	3.8	1.11761	3.9	0.11770	2.9	0.75	717.3	19.9	761.8	21.0	894.7	53.3	717.3	19.9
ELM06 WR46B-104	178	4171	1.6	1.07661	5.4	0.12186	4.6	0.84	741.3	32.0	742.0	28.5	744.1	61.5	741.3	32.0
ELM06 WR46B-26	224	2602	0.8	1.10281	4.4	0.12228	2.3	0.53	743.6	16.3	754.7	23.4	787.6	78.3	743.6	16.3
ELM06 WR46B-61	182	3302	1.4	1.13010	4.3	0.12683	3.1	0.72	769.8	22.6	767.8	23.2	762.1	62.7	769.8	22.6
ELM06 WR46B-27	278	6754	1.9	1.12747	3.1	0.12907	1.6	0.52	782.6	11.9	766.5	16.5	720.1	55.5	782.6	11.9
ELM06 WR46B-59	1416	17,853	1.4	1.26508	2.4	0.13267	1.4	0.60	803.1	10.8	830.2	13.5	903.5	39.2	803.1	10.8
ELM06 WR46B-68	322	4101	2.6	1.31032	8.2	0.13385	5.1	0.62	809.8	38.7	850.3	47.3	957.4	132.0	809.8	38.7
ELM06 WR46B-47	466	10,128	1.4	1.24789	3.3	0.13828	1.8	0.55	834.9	14.2	822.5	18.5	788.9	57.5	834.9	14.2
ELM06 WR46B-8	321	8049	1.6	1.30188	3.2	0.14026	1.0	0.32	846.2	8.1	846.6	18.4	847.6	63.1	846.2	8.1
ELM06 WR46B-2	88	1817	0.7	1.34665	5.2	0.14175	3.8	0.73	854.6	30.4	866.1	30.1	895.8	72.5	854.6	30.4
ELM06 WR46B-82	274	6939	5.4	1.41897	2.6	0.14752	1.0	0.38	887.1	8.3	896.9	15.5	921.3	49.5	887.1	8.3
ELM06 WR46B-73	210	5452	1.4	1.46469	2.7	0.15192	1.4	0.52	911.7	12.2	915.9	16.6	926.2	48.2	911.7	12.2

ELM06 WR46B-35	583	14,348	4.4	1.42900	3.5	0.15206	1.5	0.44	912.5	13.1	901.1	20.8	873.3	64.7	912.5	13.1
ELM06 WR46B-60	771	16,813	2.6	1.52016	4.2	0.15284	2.2	0.52	916.9	18.9	938.5	26.0	989.7	73.7	916.9	18.9
ELM06 WR46B-78	173	5854	2.0	1.50156	4.2	0.15470	2.5	0.60	927.3	21.5	931.0	25.4	939.9	68.6	927.3	21.5
ELM06 WR46B-30	322	8588	2.0	1.75995	3.4	0.17354	3.1	0.93	1031.6	30.0	1030.8	22.0	1029.2	25.6	1029.2	25.6
ELM06 WR46B-107	213	7600	0.4	1.90986	5.0	0.18528	2.9	0.59	1095.8	29.7	1084.5	33.1	1062.0	80.5	1062.0	80.5
ELM06 WR46B-62	148	5467	0.3	2.21190	2.4	0.20125	1.9	0.76	1182.0	20.2	1184.8	17.1	1189.9	31.2	1189.9	31.2
ELM06 WR46B-71	45	1883	0.6	2.07176	2.6	0.18568	2.2	0.84	1097.9	21.8	1139.5	17.7	1219.6	27.7	1219.6	27.7
ELM06 WR46B-51	98	4424	1.0	2.77596	3.2	0.23041	1.0	0.31	1336.7	12.1	1349.1	24.1	1368.8	59.2	1368.8	59.2
ELM06 WR46B-38	74	3100	1.6	2.90962	3.3	0.23963	1.6	0.50	1384.8	20.4	1384.4	24.9	1383.9	55.0	1383.9	55.0
ELM06 WR46B-103	281	14,357	1.1	3.10552	7.2	0.25016	4.3	0.61	1439.3	56.0	1434.1	55.1	1426.2	109.0	1426.2	109.0
ELM06 WR46B-91	222	10,643	1.0	3.20926	2.4	0.25568	1.0	0.43	1467.7	13.4	1459.4	18.4	1447.3	40.9	1447.3	40.9
ELM06 WR46B-93	150	7907	1.3	3.28702	3.4	0.25472	2.0	0.60	1462.8	26.6	1478.0	26.6	1499.9	51.8	1499.9	51.8
ELM06 WR46B-24	405	23,011	1.9	3.50503	2.8	0.26513	1.7	0.61	1516.0	22.7	1528.4	21.9	1545.4	41.4	1545.4	41.4
ELM06 WR46B-99	49	2642	1.1	3.65352	5.1	0.27208	1.7	0.34	1551.4	23.9	1561.3	40.6	1574.7	89.7	1574.7	89.7
ELM06 WR46B-97	279	1977	2.3	3.90964	7.6	0.27871	2.6	0.34	1584.8	36.6	1615.7	61.4	1656.1	132.2	1656.1	132.2
ELM06 WR46B-66	166	11,188	2.1	4.06905	4.6	0.28812	4.1	0.89	1632.1	58.7	1648.1	37.4	1668.6	39.2	1668.6	39.2
ELM06 WR46B-25	362	17,352	2.5	4.00777	4.3	0.28373	3.0	0.70	1610.1	42.7	1635.8	34.7	1668.9	56.4	1668.9	56.4
ELM06 WR46B-44	255	9795	1.3	4.35118	2.8	0.29367	1.7	0.63	1659.9	25.5	1703.1	22.9	1756.7	39.5	1756.7	39.5
ELM06 WR46B-40	51	3405	0.7	4.56662	2.5	0.30793	1.5	0.58	1730.5	22.1	1743.2	21.0	1758.4	37.8	1758.4	37.8
ELM06 WR46B-83	272	12,436	1.1	4.52169	1.9	0.30382	1.1	0.56	1710.2	16.3	1735.0	16.0	1764.9	29.1	1764.9	29.1
ELM06 WR46B-76	321	17,733	3.3	4.94984	2.0	0.32454	1.2	0.62	1811.9	19.4	1810.8	16.9	1809.5	28.6	1809.5	28.6
ELM06 WR46B-57	138	10,668	0.7	5.21335	2.2	0.33358	1.3	0.57	1855.7	20.3	1854.8	18.8	1853.8	32.8	1853.8	32.8
ELM06 WR46B-42	156	11,566	1.0	5.28439	4.0	0.33569	3.5	0.87	1865.9	56.5	1866.3	34.4	1866.8	36.2	1866.8	36.2
ELM06 WR46B-54	1270	30,711	4.1	5.25433	2.8	0.33257	2.1	0.76	1850.8	33.6	1861.5	23.5	1873.4	32.5	1873.4	32.5
ELM06 WR46B-22	33	2271	0.4	5.85604	4.5	0.35454	1.3	0.28	1956.3	21.4	1954.7	39.2	1953.1	77.6	1953.1	77.6
ELM06 WR46B-18	547	34,803	60.3	5.67072	2.3	0.34295	1.4	0.63	1900.8	23.4	1926.9	19.6	1955.1	31.6	1955.1	31.6
ELM06 WR46B-41	214	12,963	1.1	6.13561	3.5	0.36064	1.0	0.29	1985.2	17.1	1995.3	30.2	2005.8	58.8	2005.8	58.8
ELM06 WR46B-13	615	26,417	1.4	6.30583	3.1	0.35991	1.7	0.54	1981.8	28.3	2019.3	27.0	2057.8	45.7	2057.8	45.7
ELM06 WR46B-43	416	23,651	1.1	10.07535	4.9	0.44868	4.4	0.90	2389.4	87.7	2441.7	45.3	2485.6	36.8	2485.6	36.8

**Sample ELM06 WR51B**

ELM06 WR51B-1	848	10,644	2.5	0.2382	7.0	0.0325	5.6	0.80	206.0	11.4	217.0	13.7	337.8	95.1	206.0	11.4
ELM06 WR51B-22	73	1300	2.1	0.2359	4.7	0.0352	1.2	0.26	223.2	2.6	215.1	9.1	126.9	106.4	223.2	2.6
ELM06 WR51B-53	295	3816	3.3	0.2465	5.2	0.0354	3.7	0.71	224.0	8.1	223.7	10.4	220.8	85.3	224.0	8.1
ELM06 WR51B-21	343	5434	1.9	0.2503	2.9	0.0365	1.8	0.61	231.1	4.0	226.8	5.9	182.4	53.9	231.1	4.0
ELM06 WR51B-11	665	13,066	1.7	0.2578	2.9	0.0368	1.2	0.41	232.9	2.7	232.9	6.1	233.0	61.3	232.9	2.7
ELM06 WR51B-59	838	10,982	0.9	0.2718	2.1	0.0387	1.7	0.80	244.6	4.0	244.1	4.5	239.5	28.7	244.6	4.0
ELM06 WR51B-35	974	15,496	2.2	0.2728	2.7	0.0387	2.1	0.75	245.0	4.9	244.9	6.0	243.6	41.9	245.0	4.9



ELM06 WR51B-62	485	8956	2.3	0.2936	4.2	0.0408	3.5	0.85	258.1	9.0	261.4	9.6	291.4	50.5	258.1	9.0
ELM06 WR51B-26	258	3214	1.5	0.2903	3.4	0.0410	2.3	0.68	259.1	5.8	258.8	7.7	255.9	56.6	259.1	5.8
ELM06 WR51B-25	462	7790	1.5	0.2957	2.8	0.0419	1.7	0.63	264.5	4.5	263.0	6.4	249.6	49.3	264.5	4.5
ELM06 WR51B-101	447	7326	1.9	0.2995	3.4	0.0428	1.0	0.29	270.1	2.6	266.0	8.1	229.5	76.1	270.1	2.6
ELM06 WR51B-110	555	8430	3.9	0.3265	4.2	0.0440	2.1	0.51	277.4	5.8	286.9	10.4	365.1	80.9	277.4	5.8
ELM06 WR51B-9	124	982	1.4	0.2704	16.7	0.0448	1.0	0.06	282.3	2.8	243.0	36.2	-121.5	414.7	282.3	2.8
ELM06 WR51B-40	118	1980	0.8	0.3139	6.6	0.0456	3.2	0.48	287.2	9.0	277.2	16.0	193.7	134.5	287.2	9.0
ELM06 WR51B-12	144	2162	2.5	0.3669	3.5	0.0484	1.0	0.28	305.0	3.0	317.3	9.6	409.2	75.6	305.0	3.0
ELM06 WR51B-83	57	1070	2.8	0.3329	10.8	0.0485	2.6	0.24	305.0	7.7	291.8	27.5	187.1	245.8	305.0	7.7
ELM06 WR51B-69	175	4088	2.5	0.3687	4.2	0.0488	2.8	0.67	307.1	8.5	318.7	11.6	404.3	70.6	307.1	8.5
ELM06 WR51B-75	90	2030	3.2	0.3692	7.7	0.0492	1.3	0.17	309.7	4.0	319.0	21.0	387.4	169.9	309.7	4.0
ELM06 WR51B-103	902	18,354	2.7	0.3609	3.5	0.0501	1.0	0.29	315.1	3.1	312.9	9.3	296.0	75.8	315.1	3.1
ELM06 WR51B-77	685	6368	0.8	0.3581	4.5	0.0503	1.0	0.22	316.1	3.1	310.8	11.9	271.2	99.7	316.1	3.1
ELM06 WR51B-43	213	1856	1.4	0.4535	24.6	0.0505	5.6	0.23	317.6	17.4	379.8	78.1	778.9	510.3	317.6	17.4
ELM06 WR51B-94	171	4204	2.2	0.3624	5.2	0.0507	3.6	0.69	318.7	11.2	314.0	14.1	279.5	86.3	318.7	11.2
ELM06 WR51B-36	100	2390	1.4	0.3601	5.3	0.0513	2.1	0.39	322.6	6.5	312.3	14.3	235.9	113.3	322.6	6.5
ELM06 WR51B-29	240	3378	1.9	0.3964	6.2	0.0549	1.1	0.18	344.5	3.7	339.0	17.8	301.7	138.8	344.5	3.7
ELM06 WR51B-88	147	4606	1.3	0.4041	2.4	0.0551	1.0	0.42	346.0	3.4	344.6	7.0	335.3	49.4	346.0	3.4
ELM06 WR51B-87	1111	21,290	2.6	0.4096	3.0	0.0553	1.9	0.63	347.2	6.5	348.6	9.0	358.3	53.3	347.2	6.5
ELM06 WR51B-71	284	7204	1.5	0.4110	5.3	0.0554	5.0	0.95	347.4	17.0	349.6	15.8	363.9	39.0	347.4	17.0
ELM06 WR51B-99	465	9728	2.2	0.4163	4.1	0.0558	1.1	0.27	350.2	3.7	353.4	12.2	374.1	89.0	350.2	3.7
ELM06 WR51B-102	320	7242	1.3	0.4596	36.3	0.0558	1.0	0.03	350.3	3.4	384.0	116.5	592.3	811.5	350.3	3.4
ELM06 WR51B-39	140	3516	1.6	0.4035	6.0	0.0561	2.9	0.49	352.0	10.0	344.2	17.5	291.8	119.7	352.0	10.0
ELM06 WR51B-31	96	2418	2.3	0.4258	5.5	0.0577	2.7	0.49	361.5	9.4	360.2	16.6	351.5	108.2	361.5	9.4
ELM06 WR51B-65	121	3002	1.7	0.4277	5.9	0.0577	3.5	0.59	361.8	12.1	361.6	17.9	360.0	107.5	361.8	12.1
ELM06 WR51B-44	100	2944	1.8	0.4256	4.5	0.0588	3.3	0.74	368.6	11.8	360.0	13.6	305.3	69.3	368.6	11.8
ELM06 WR51B-33	501	13,266	1.3	0.4428	1.7	0.0592	1.1	0.62	370.6	3.8	372.2	5.4	382.5	30.4	370.6	3.8
ELM06 WR51B-46	230	7224	3.1	0.4509	2.9	0.0600	2.5	0.88	375.8	9.3	377.9	9.1	391.2	30.2	375.8	9.3
ELM06 WR51B-52	1442	25,142	1.9	0.4517	2.5	0.0607	1.9	0.77	380.2	7.0	378.5	7.8	368.0	35.4	380.2	7.0
ELM06 WR51B-45	545	15,474	2.2	0.4934	3.4	0.0642	3.0	0.87	401.3	11.5	407.2	11.4	440.7	37.6	401.3	11.5
ELM06 WR51B-23	514	17,604	3.8	0.4964	3.8	0.0661	3.0	0.77	412.8	11.9	409.2	12.9	389.1	54.5	412.8	11.9
ELM06 WR51B-74	613	13,452	2.3	0.5158	3.7	0.0663	1.3	0.34	413.9	5.1	422.4	12.6	468.6	76.0	413.9	5.1
ELM06 WR51B-17	708	14,290	2.2	0.5296	2.7	0.0698	1.7	0.63	435.0	7.1	431.6	9.3	413.3	45.9	435.0	7.1
ELM06 WR51B-51	97	2914	1.4	0.5597	3.6	0.0711	1.2	0.33	443.1	5.1	451.3	13.2	493.5	75.3	443.1	5.1
ELM06 WR51B-4	264	5770	0.9	0.5601	7.3	0.0721	4.6	0.63	448.7	19.7	451.6	26.4	466.3	125.2	448.7	19.7
ELM06 WR51B-38	646	12,812	1.1	0.5750	1.9	0.0739	1.4	0.73	459.7	6.2	461.3	7.0	469.2	28.6	459.7	6.2
ELM06 WR51B-67	274	10,416	2.0	0.5738	2.3	0.0749	1.1	0.47	465.4	4.9	460.5	8.6	436.0	45.8	465.4	4.9
ELM06 WR51B-50	118	4092	1.6	0.5774	5.0	0.0760	1.8	0.36	472.5	8.2	462.8	18.5	414.8	103.6	472.5	8.2

ELM06 WR51B-7	528	17,456	1.5	0.6027	2.1	0.0767	1.7	0.80	476.6	7.6	479.0	7.9	490.2	27.7	476.6	7.6
ELM06 WR51B-85	595	17,544	2.1	0.6032	2.7	0.0782	1.0	0.37	485.5	4.7	479.2	10.3	449.3	55.8	485.5	4.7
ELM06 WR51B-72	175	7442	1.6	0.6316	4.7	0.0817	2.9	0.62	506.3	14.3	497.1	18.6	455.2	82.0	506.3	14.3
ELM06 WR51B-76	374	16,526	2.0	0.6801	2.8	0.0841	1.5	0.51	520.6	7.3	526.9	11.7	554.2	53.3	520.6	7.3
ELM06 WR51B-91	457	11,456	1.1	0.7037	4.8	0.0842	4.5	0.92	520.9	22.3	541.0	20.2	626.8	39.5	520.9	22.3
ELM06 WR51B-20	90	3334	1.8	0.6695	4.5	0.0847	1.7	0.38	524.0	8.6	520.4	18.3	504.6	91.6	524.0	8.6
ELM06 WR51B-19	49	2394	1.2	0.6890	4.9	0.0879	3.4	0.69	543.0	17.7	532.2	20.3	486.4	78.2	543.0	17.7
ELM06 WR51B-105L	483	24,900	3.9	0.7413	1.8	0.0907	1.5	0.84	559.6	8.3	563.2	7.9	577.7	21.8	559.6	8.3
ELM06 WR51B-15	196	9354	3.2	0.7791	2.9	0.0930	1.1	0.40	573.1	6.2	585.0	12.7	631.4	56.4	573.1	6.2
ELM06 WR51B-18	451	13,074	1.2	0.8483	1.7	0.1001	1.0	0.61	614.9	5.9	623.7	7.7	655.9	28.2	614.9	5.9
ELM06 WR51B-56	123	3868	1.0	0.8965	3.7	0.1057	1.8	0.49	647.5	11.2	649.8	17.6	657.9	68.5	647.5	11.2
ELM06 WR51B-70	66	3288	2.0	0.9974	3.4	0.1148	2.5	0.73	700.5	16.8	702.5	17.5	708.9	49.8	700.5	16.8
ELM06 WR51B-92	77	4234	2.2	0.9967	3.7	0.1160	2.5	0.68	707.7	16.8	702.1	18.7	684.5	57.8	707.7	16.8
ELM06 WR51B-93	288	16,048	3.3	1.0002	4.2	0.1163	3.4	0.80	709.4	22.7	703.9	21.4	686.3	53.6	709.4	22.7
ELM06 WR51B-106	269	17,704	3.5	1.0647	3.7	0.1189	3.3	0.88	724.1	22.3	736.1	19.3	772.7	36.6	724.1	22.3
ELM06 WR51B-13	263	17,286	6.6	1.3642	2.9	0.1456	1.9	0.68	876.0	15.8	873.7	16.8	867.7	43.7	876.0	15.8
ELM06 WR51B-48	696	35,324	10.0	1.5052	1.8	0.1558	1.5	0.82	933.5	12.6	932.5	10.7	930.2	20.5	933.5	12.6
ELM06 WR51B-84	250	18,176	2.0	1.8897	4.1	0.1832	3.8	0.91	1084.4	37.4	1077.5	27.3	1063.5	33.8	1063.5	33.8
ELM06 WR51B-89	181	8674	3.8	2.2177	3.1	0.2014	1.0	0.32	1182.9	10.8	1186.6	21.9	1193.5	58.7	1193.5	58.7
ELM06 WR51B-98	548	18,936	2.0	2.1227	2.7	0.1873	1.7	0.61	1106.9	17.0	1156.2	18.8	1249.8	42.0	1249.8	42.0
ELM06 WR51B-78	327	13,536	3.3	2.4341	6.9	0.2043	1.4	0.21	1198.5	15.4	1252.7	49.4	1347.1	129.7	1347.1	129.7
ELM06 WR51B-104	303	11,134	1.6	3.0553	6.6	0.2222	4.9	0.74	1293.7	57.6	1421.6	50.6	1618.6	82.5	1618.6	82.5
ELM06 WR51B-96	121	13,920	1.4	4.7133	2.4	0.3195	1.0	0.42	1787.1	15.6	1769.6	19.8	1748.9	39.2	1748.9	39.2
ELM06 WR51B-41	338	45,948	1.5	4.2791	2.3	0.2895	1.9	0.83	1639.2	27.4	1689.3	18.8	1752.1	23.6	1752.1	23.6
ELM06 WR51B-54	38	5568	2.3	4.4227	3.5	0.2984	2.5	0.71	1683.3	36.7	1716.6	29.1	1757.4	45.5	1757.4	45.5
ELM06 WR51B-14	65	5984	1.0	4.4969	1.5	0.2979	1.0	0.67	1680.8	14.8	1730.4	12.4	1790.9	20.1	1790.9	20.1
ELM06 WR51B-61	323	53,332	1.6	5.0011	4.4	0.3265	3.8	0.88	1821.5	60.8	1819.5	37.0	1817.2	38.3	1817.2	38.3
ELM06 WR51B-73	330	45,600	2.6	4.9928	3.6	0.3249	2.8	0.77	1813.8	43.6	1818.1	30.4	1823.0	41.7	1823.0	41.7
ELM06 WR51B-28	577	54,142	12.2	5.1694	2.9	0.3322	2.3	0.78	1849.0	36.3	1847.6	24.7	1846.0	32.9	1846.0	32.9
ELM06 WR51B-80	94	14,428	1.2	5.2339	3.7	0.3354	2.9	0.78	1864.5	46.1	1858.2	31.2	1851.0	41.4	1851.0	41.4
ELM06 WR51B-58	397	46,754	11.2	4.6725	2.4	0.2982	1.3	0.55	1682.4	19.7	1762.3	20.4	1858.4	36.9	1858.4	36.9
ELM06 WR51B-49	1997	239,660	4.1	5.2931	3.6	0.3348	2.9	0.80	1861.6	46.4	1867.7	30.6	1874.5	38.8	1874.5	38.8
ELM06 WR51B-5	144	22,014	3.3	5.3018	2.5	0.3348	2.0	0.81	1861.4	32.8	1869.2	21.4	1877.8	26.3	1877.8	26.3
ELM06 WR51B-97	323	18,006	2.9	4.3995	2.1	0.2775	1.0	0.48	1578.8	14.0	1712.2	17.1	1879.6	32.6	1879.6	32.6
ELM06 WR51B-86	258	39,732	2.5	5.3715	3.9	0.3388	1.0	0.26	1880.7	16.3	1880.3	33.1	1879.9	67.2	1879.9	67.2
ELM06 WR51B-37	281	36,552	2.8	5.3129	2.2	0.3342	2.0	0.89	1858.8	31.5	1870.9	18.7	1884.5	18.1	1884.5	18.1
ELM06 WR51B-24	904	101,102	2.0	5.4094	3.6	0.3392	3.1	0.88	1882.9	51.1	1886.3	30.5	1890.1	30.6	1890.1	30.6

ELM06 WR51B-107	980	85,090	0.8	5.4302	2.9	0.3382	2.0	0.72	1877.9	33.2	1889.6	24.4	1902.6	35.8	1902.6	35.8
ELM06 WR51B-6	836	79,146	12.6	5.6840	1.9	0.3499	1.4	0.72	1934.1	22.6	1928.9	16.2	1923.4	23.5	1923.4	23.5
ELM06 WR51B-64	99	15,658	1.3	5.4504	3.2	0.3343	2.3	0.72	1859.1	37.8	1892.8	27.8	1930.0	40.2	1930.0	40.2
ELM06 WR51B-105	413	35,106	2.0	5.9013	3.2	0.3579	1.0	0.32	1972.3	17.0	1961.4	27.5	1950.0	53.8	1950.0	53.8
ELM06 WR51B-63	623	52,590	1.8	5.9324	6.6	0.3590	4.2	0.64	1977.3	71.0	1966.0	57.0	1954.1	90.4	1954.1	90.4
ELM06 WR51B-82	60	10,042	0.5	5.9070	4.9	0.3560	4.2	0.86	1963.2	71.4	1962.3	42.5	1961.2	44.1	1961.2	44.1
ELM06 WR51B-60	145	14,098	1.5	5.2509	2.7	0.3162	1.2	0.45	1771.4	18.9	1860.9	23.0	1962.5	42.8	1962.5	42.8
ELM06 WR51B-42	392	47,966	2.0	6.1426	2.0	0.3627	1.4	0.70	1994.8	23.3	1996.3	17.0	1997.8	24.9	1997.8	24.9
ELM06 WR51B-100	866	74,586	11.6	6.1087	2.6	0.3477	1.6	0.62	1923.5	27.1	1991.5	23.0	2062.8	36.5	2062.8	36.5
ELM06 WR51B-10	2692	133,580	23.9	6.9524	1.9	0.3750	1.0	0.53	2053.1	17.6	2105.4	16.7	2156.8	27.7	2156.8	27.7
ELM06 WR51B-95	570	38,214	2.7	7.9999	2.5	0.4156	1.0	0.41	2240.3	18.9	2231.0	22.1	2222.5	38.8	2222.5	38.8
ELM06 WR51B-16	141	20,924	2.9	8.9442	3.3	0.4326	3.0	0.90	2317.3	57.6	2332.3	30.0	2345.5	24.1	2345.5	24.1
ELM06 WR51B-30	161	33,424	2.3	9.2802	2.9	0.4364	2.5	0.87	2334.5	49.7	2366.1	26.8	2393.4	24.7	2393.4	24.7
ELM06 WR51B-57	136	22,122	1.6	10.0612	3.7	0.4528	3.1	0.84	2407.8	61.5	2440.4	33.8	2467.7	34.0	2467.7	34.0
ELM06 WR51B-8	1913	220,406	5.5	10.0784	3.0	0.4495	2.9	0.94	2393.2	57.0	2442.0	28.0	2482.9	17.4	2482.9	17.4
ELM06 WR51B-90	96	15,832	1.1	10.4544	4.5	0.4572	3.6	0.81	2427.0	73.6	2475.9	41.7	2516.3	44.4	2516.3	44.4
ELM06 WR51B-108	932	107,480	3.9	11.3964	2.7	0.4911	1.1	0.40	2575.5	23.4	2556.1	25.6	2540.8	42.1	2540.8	42.1
ELM06 WR51B-81	544	110,730	3.4	11.3098	3.4	0.4858	2.6	0.76	2552.3	54.2	2549.0	31.6	2546.4	36.9	2546.4	36.9
ELM06 WR51B-27	287	52,014	1.3	11.8292	3.6	0.4983	3.1	0.87	2606.5	67.1	2591.0	33.9	2578.9	30.2	2578.9	30.2
ELM06 WR51B-3	260	54,688	1.5	11.5561	1.8	0.4821	1.4	0.78	2536.3	28.9	2569.1	16.4	2595.1	18.2	2595.1	18.2
ELM06 WR51B-34	117	28,436	5.8	12.4344	2.0	0.5060	1.0	0.49	2639.6	21.7	2637.8	19.1	2636.4	29.4	2636.4	29.4
ELM06 WR51B-2	241	33,064	2.3	14.9709	2.6	0.5174	1.5	0.60	2688.0	33.6	2813.4	24.3	2904.5	33.1	2904.5	33.1

**Sample 94CL19**

94CL19-107	865	1256	1.4	0.5013	8.1	0.0512	4.2	0.52	322.1	13.2	412.6	27.4	956.5	141.7	322.1	13.2
94CL19-41	189	13,976	1.3	0.4190	6.6	0.0590	1.6	0.23	369.6	5.6	355.3	19.9	262.8	147.9	369.6	5.6
94CL19-47	233	2510	1.3	0.5494	5.4	0.0673	1.0	0.18	420.0	4.1	444.6	19.6	574.2	116.3	420.0	4.1
94CL19-97	209	5690	3.3	0.5148	3.7	0.0690	1.8	0.49	430.2	7.6	421.7	12.8	375.3	72.9	430.2	7.6
94CL19-92	161	2642	1.2	0.5920	7.2	0.0691	1.7	0.23	430.7	7.1	472.1	27.4	679.0	150.6	430.7	7.1
94CL19-94	825	27,014	2.0	0.5332	1.6	0.0697	1.1	0.67	434.6	4.6	434.0	5.8	430.7	27.3	434.6	4.6
94CL19-26	186	4326	1.8	0.5520	5.8	0.0698	1.7	0.30	434.8	7.3	446.3	21.1	506.1	122.9	434.8	7.3
94CL19-74	188	4114	2.0	0.5354	3.1	0.0702	1.2	0.39	437.2	5.2	435.4	11.0	425.7	64.1	437.2	5.2
94CL19-32	373	8442	2.8	0.5719	5.3	0.0705	2.7	0.51	439.4	11.6	459.2	19.6	560.0	99.1	439.4	11.6
94CL19-7	272	8298	1.0	0.5585	3.4	0.0727	1.4	0.42	452.3	6.2	450.6	12.3	441.9	68.7	452.3	6.2
94CL19-100	492	13,014	1.7	0.6445	22.7	0.0779	4.6	0.20	483.8	21.5	505.1	90.8	602.5	487.5	483.8	21.5
94CL19-71	138	4146	2.4	0.6460	9.6	0.0783	1.1	0.11	485.7	5.1	506.0	38.4	598.6	207.9	485.7	5.1
94CL19-13	579	5754	17.5	0.6512	4.5	0.0785	2.4	0.53	487.2	11.2	509.2	17.9	609.1	81.6	487.2	11.2
94CL19-37	194	6980	2.1	0.6544	5.3	0.0801	3.1	0.58	496.8	14.7	511.2	21.4	576.1	94.6	496.8	14.7

94CL19-65	126	3474	1.1	0.6777	4.1	0.0863	1.5	0.36	533.5	7.5	525.4	16.8	490.4	84.6	533.5	7.5
94CL19-91	147	10,834	6.7	0.7009	3.3	0.0888	2.4	0.72	548.4	12.5	539.3	13.8	501.3	50.5	548.4	12.5
94CL19-103	208	5264	1.2	0.7329	3.1	0.0902	1.0	0.33	557.0	5.3	558.3	13.1	563.4	62.8	557.0	5.3
94CL19-11	80	2780	2.0	0.8043	6.3	0.0903	1.0	0.16	557.6	5.3	599.2	28.5	760.3	131.4	557.6	5.3
94CL19-36	171	4956	1.7	0.7590	3.0	0.0906	1.0	0.34	559.2	5.4	573.4	13.0	630.1	60.3	559.2	5.4
94CL19-53	347	10,084	1.1	0.7566	6.2	0.0906	2.5	0.41	559.3	13.5	572.0	27.0	623.0	121.4	559.3	13.5
94CL19-98	165	6648	1.1	0.7700	3.2	0.0931	1.3	0.41	573.8	7.2	579.8	14.1	603.1	62.9	573.8	7.2
94CL19-82	367	15,254	2.7	0.7749	2.0	0.0938	1.0	0.51	577.8	5.5	582.6	8.7	601.1	36.7	577.8	5.5
94CL19-12	391	5176	2.0	0.8181	3.7	0.0950	2.5	0.69	585.2	14.2	607.0	16.9	689.1	57.5	585.2	14.2
94CL19-68	410	6712	1.1	0.8392	5.2	0.0952	4.4	0.85	586.3	24.5	618.7	23.9	739.2	57.4	586.3	24.5
94CL19-42	289	16,304	2.6	0.7648	4.4	0.0957	2.3	0.53	589.1	13.1	576.8	19.4	528.6	82.2	589.1	13.1
94CL19-33	627	3460	1.1	0.9421	10.1	0.0969	2.3	0.23	596.0	13.2	674.0	50.0	944.2	202.7	596.0	13.2
94CL19-19	396	15,568	1.1	0.8462	5.0	0.0978	1.4	0.28	601.6	8.1	622.6	23.2	699.5	101.8	601.6	8.1
94CL19-99	444	13,760	1.9	0.8122	3.0	0.0980	2.7	0.89	602.8	15.3	603.7	13.6	606.9	29.5	602.8	15.3
94CL19-15	108	4332	10.9	0.8314	5.3	0.0982	3.4	0.65	603.8	19.7	614.4	24.3	653.6	86.4	603.8	19.7
94CL19-8	265	2772	1.4	0.9122	7.4	0.0983	2.8	0.38	604.5	16.2	658.2	35.8	846.8	142.4	604.5	16.2
94CL19-101	193	5914	1.3	0.8165	4.5	0.0987	1.5	0.33	606.8	8.4	606.1	20.4	603.4	91.3	606.8	8.4
94CL19-102	145	5748	1.8	0.8295	3.8	0.0991	2.7	0.72	609.2	15.8	613.3	17.5	628.7	57.0	609.2	15.8
94CL19-84	641	26,200	2.2	0.8351	2.9	0.0994	1.8	0.64	610.8	10.7	616.4	13.3	637.0	47.8	610.8	10.7
94CL19-86	129	4564	1.1	0.8782	5.2	0.1013	1.4	0.26	622.3	8.1	640.0	24.6	703.0	106.3	622.3	8.1
94CL19-81	405	13,214	1.8	0.8754	1.9	0.1017	1.4	0.75	624.5	8.4	638.5	8.9	688.5	26.4	624.5	8.4
94CL19-23	228	8888	1.8	0.8792	4.0	0.1030	2.1	0.53	631.8	12.8	640.6	19.2	671.7	73.5	631.8	12.8
94CL19-70	356	12,878	1.5	0.8961	1.8	0.1040	1.1	0.64	637.6	6.9	649.6	8.4	691.4	28.6	637.6	6.9
94CL19-20	207	10,958	1.1	0.9156	3.1	0.1086	1.2	0.38	664.5	7.4	660.0	15.0	644.7	61.4	664.5	7.4
94CL19-39	153	6736	1.8	0.9654	4.5	0.1106	3.4	0.76	676.3	21.6	686.1	22.2	718.3	61.9	676.3	21.6
94CL19-31	210	11,412	1.5	1.0694	5.9	0.1144	3.9	0.66	698.0	25.7	738.5	30.8	863.2	91.1	698.0	25.7
94CL19-60	135	9516	1.7	1.0030	3.2	0.1163	1.0	0.32	709.4	6.7	705.3	16.1	692.2	64.2	709.4	6.7
94CL19-57	152	8026	2.3	1.1017	5.3	0.1200	3.3	0.61	730.6	22.4	754.2	28.2	824.5	87.3	730.6	22.4
94CL19-3	587	15,364	2.2	1.1349	5.4	0.1227	1.7	0.31	746.2	11.8	770.1	28.9	839.9	105.8	746.2	11.8
94CL19-78	162	6538	2.1	1.1603	1.8	0.1268	1.1	0.64	769.5	8.1	782.1	9.6	818.0	28.4	769.5	8.1
94CL19-14	117	7264	2.0	1.5215	3.3	0.1560	2.4	0.71	934.4	20.6	939.1	20.4	950.2	47.7	950.2	47.7
94CL19-58	305	25,912	1.8	1.6221	2.2	0.1650	1.7	0.76	984.4	15.2	978.8	13.8	966.2	29.0	966.2	29.0
94CL19-35	252	15,788	6.9	1.5337	3.0	0.1549	2.0	0.67	928.4	17.2	944.0	18.2	980.5	44.7	980.5	44.7
94CL19-80	62	4632	1.2	1.6784	4.5	0.1672	1.6	0.35	996.9	14.7	1000.4	28.6	1008.0	85.3	1008.0	85.3
94CL19-79	204	14,240	2.6	1.7844	1.6	0.1752	1.2	0.77	1040.6	11.5	1039.8	10.2	1038.1	20.3	1038.1	20.3
94CL19-18	172	13,152	2.1	1.8257	2.5	0.1786	1.0	0.39	1059.2	9.8	1054.7	16.7	1045.6	47.3	1045.6	47.3
94CL19-5	540	12,756	12.4	1.6197	4.9	0.1582	3.4	0.69	947.0	29.9	977.9	30.9	1047.9	72.1	1047.9	72.1

94CL19-51	228	7762	2.4	1.6212	7.2	0.1576	2.4	0.33	943.5	20.9	978.5	45.0	1057.9	136.1	1057.9	136.1
94CL19-56	56	5268	2.0	1.7681	7.5	0.1706	1.5	0.20	1015.4	14.0	1033.8	48.4	1073.0	146.8	1073.0	146.8
94CL19-67	452	28,420	3.2	1.9480	2.3	0.1864	1.4	0.63	1102.0	14.4	1097.8	15.2	1089.4	35.5	1089.4	35.5
94CL19-93	202	9324	3.2	1.7200	2.9	0.1627	1.0	0.34	971.7	9.0	1016.0	18.8	1112.8	54.8	1112.8	54.8
94CL19-89	165	10,274	2.2	2.1509	1.7	0.1993	1.0	0.58	1171.7	10.7	1165.4	12.0	1153.6	28.2	1153.6	28.2
94CL19-29	134	10,574	3.6	2.1019	1.8	0.1939	1.0	0.55	1142.6	10.5	1149.4	12.6	1162.3	30.4	1162.3	30.4
94CL19-104	312	18,514	3.2	2.0718	2.6	0.1906	1.1	0.43	1124.7	11.5	1139.5	17.5	1167.9	45.6	1167.9	45.6
94CL19-22	341	22,146	5.3	1.8708	4.5	0.1708	3.1	0.69	1016.2	28.8	1070.8	29.5	1183.7	64.0	1183.7	64.0
94CL19-30	141	10,576	4.0	2.1905	3.0	0.1992	1.4	0.46	1171.0	14.6	1178.0	20.6	1190.8	51.8	1190.8	51.8
94CL19-72	58	5142	2.0	2.2350	2.8	0.2009	1.7	0.62	1180.2	18.8	1192.1	19.7	1213.7	43.4	1213.7	43.4
94CL19-64	86	6528	1.7	2.3568	3.8	0.2110	2.7	0.71	1234.4	30.3	1229.6	26.9	1221.3	51.9	1221.3	51.9
94CL19-110	87	7368	1.0	2.3163	1.7	0.2072	1.0	0.57	1213.8	11.1	1217.3	12.4	1223.5	28.2	1223.5	28.2
94CL19-85	319	26,186	4.5	2.2734	1.9	0.2030	1.0	0.54	1191.5	10.9	1204.1	13.1	1226.7	30.7	1226.7	30.7
94CL19-28	35	2806	3.9	2.1900	5.6	0.1955	1.1	0.19	1151.2	11.4	1177.9	38.8	1227.2	107.3	1227.2	107.3
94CL19-66	79	6272	1.0	2.3367	5.1	0.2082	1.3	0.26	1219.0	14.4	1223.5	36.1	1231.5	96.2	1231.5	96.2
94CL19-49	140	8950	2.2	2.3516	3.0	0.2064	2.0	0.68	1209.5	22.4	1228.0	21.4	1260.7	43.3	1260.7	43.3
94CL19-106	52	5086	3.6	2.5246	3.6	0.2195	2.4	0.66	1279.4	27.7	1279.1	26.4	1278.7	53.3	1278.7	53.3
94CL19-21	54	2052	1.6	1.7788	10.3	0.1533	2.3	0.23	919.5	20.1	1037.7	67.3	1296.0	196.4	1296.0	196.4
94CL19-44	383	55,792	1.3	2.7051	1.8	0.2286	1.4	0.79	1327.0	17.3	1329.8	13.5	1334.4	21.5	1334.4	21.5
94CL19-6	249	22,212	2.1	2.6241	3.1	0.2206	2.4	0.77	1285.1	28.1	1307.4	22.9	1344.2	38.3	1344.2	38.3
94CL19-34	228	17,254	7.3	2.5143	2.5	0.2063	1.8	0.70	1208.9	19.4	1276.2	18.2	1391.3	34.2	1391.3	34.2
94CL19-52	119	2060	1.5	2.2395	4.6	0.1776	2.7	0.57	1053.9	25.9	1193.5	32.6	1456.0	72.5	1456.0	72.5
94CL19-9	84	10,114	1.2	3.1659	6.1	0.2484	5.3	0.87	1430.0	68.1	1448.9	47.1	1476.7	57.1	1476.7	57.1
94CL19-24	278	7570	1.5	2.4417	8.0	0.1890	7.7	0.96	1116.1	78.9	1255.0	57.7	1501.7	41.3	1501.7	41.3
94CL19-83	325	16,098	1.6	2.5270	4.3	0.1947	4.1	0.94	1147.0	42.7	1279.8	31.4	1510.3	27.7	1510.3	27.7
94CL19-61	159	15,880	1.8	3.4482	4.0	0.2649	2.3	0.56	1515.0	30.5	1515.5	31.6	1516.1	62.7	1516.1	62.7
94CL19-69	103	8656	2.0	3.6183	2.4	0.2732	1.8	0.73	1557.3	24.5	1553.6	19.3	1548.5	31.2	1548.5	31.2
94CL19-109	631	33,874	28.5	2.7662	4.1	0.2043	1.4	0.34	1198.2	15.4	1346.5	30.7	1590.6	72.2	1590.6	72.2
94CL19-10	166	15,810	1.3	4.0322	2.7	0.2923	1.0	0.36	1653.2	14.6	1640.7	22.3	1624.8	47.5	1624.8	47.5
94CL19-43	206	19,146	1.5	4.0049	1.4	0.2881	1.0	0.71	1631.8	14.4	1635.2	11.5	1639.5	18.6	1639.5	18.6
94CL19-62	125	13,064	1.4	4.0556	2.0	0.2916	1.1	0.53	1649.7	15.3	1645.4	16.3	1639.9	31.6	1639.9	31.6
94CL19-55	88	11,514	2.9	3.9180	2.5	0.2812	1.7	0.69	1597.4	24.2	1617.4	20.1	1643.5	33.5	1643.5	33.5
94CL19-46	68	8952	1.8	4.1286	1.9	0.2926	1.0	0.52	1654.4	14.6	1660.0	15.7	1667.0	30.4	1667.0	30.4
94CL19-50	222	21,466	1.2	3.8939	1.5	0.2752	1.0	0.68	1567.3	13.9	1612.4	11.9	1671.8	20.0	1671.8	20.0
94CL19-73	96	11,678	0.8	4.2422	1.7	0.2997	1.0	0.59	1689.7	14.9	1682.2	14.0	1672.9	25.5	1672.9	25.5
94CL19-2	133	14,396	0.8	4.2929	2.3	0.2999	1.1	0.50	1690.6	17.0	1692.0	18.8	1693.7	36.4	1693.7	36.4
94CL19-1	141	15,718	1.4	4.3867	2.7	0.3054	1.4	0.53	1717.9	21.3	1709.8	22.0	1699.9	41.5	1699.9	41.5
94CL19-88	107	10,990	2.8	4.4459	2.0	0.3047	1.0	0.50	1714.7	15.1	1720.9	16.5	1728.5	31.7	1728.5	31.7

94CL19-76	311	31,790	6.6	3.8133	6.6	0.2582	2.6	0.39	1480.6	34.0	1595.5	53.2	1750.8	111.6	1750.8	111.6
94CL19-75	128	9192	0.9	4.8049	2.6	0.3192	1.9	0.73	1785.9	29.5	1785.8	21.8	1785.6	32.3	1785.6	32.3
94CL19-25	224	31,538	2.6	4.8905	2.2	0.3217	1.7	0.76	1798.2	26.8	1800.6	18.8	1803.4	26.2	1803.4	26.2
94CL19-38	34	2688	1.1	4.9037	7.4	0.3070	2.7	0.37	1725.9	40.9	1802.9	62.5	1893.1	124.0	1893.1	124.0
94CL19-17	102	19,566	5.3	5.5093	2.0	0.3438	1.0	0.50	1905.1	16.5	1902.0	17.1	1898.7	30.9	1898.7	30.9
94CL19-40	98	13,766	2.3	5.5638	2.6	0.3428	2.0	0.75	1900.3	32.4	1910.5	22.6	1921.6	31.2	1921.6	31.2
94CL19-4	182	27,286	1.6	6.6130	3.3	0.3787	1.2	0.38	2070.3	22.0	2061.1	28.7	2051.8	53.2	2051.8	53.2
94CL19-27	129	14,494	1.6	10.2452	1.6	0.4544	1.0	0.64	2414.8	20.1	2457.2	14.5	2492.4	20.4	2492.4	20.4
94CL19-95	110	45,502	2.1	11.5285	2.4	0.4887	2.0	0.82	2565.2	41.5	2566.9	22.5	2568.2	23.2	2568.2	23.2
94CL19-87	128	20,646	2.1	13.1298	3.8	0.5133	2.6	0.69	2670.6	57.1	2689.0	35.9	2702.9	45.6	2702.9	45.6
94CL19-90	141	23,750	3.9	13.1672	2.1	0.5143	1.4	0.66	2674.8	29.8	2691.7	19.4	2704.4	25.4	2704.4	25.4
94CL19-45	169	50,908	24.2	13.9399	2.6	0.5201	2.3	0.88	2699.5	49.8	2745.6	24.2	2779.7	19.5	2779.7	19.5

**Sample 94CL42**

94CL42-15	362	2890	1.1	0.5768	9.0	0.0647	1.7	0.19	403.9	6.7	462.4	33.6	764.4	187.2	403.9	6.7
94CL42-97	896	3318	1.0	0.5624	8.4	0.0660	7.2	0.87	411.9	28.9	453.1	30.6	667.5	89.6	411.9	28.9
94CL42-96	674	6674	1.2	0.5422	5.6	0.0675	1.6	0.29	420.8	6.6	439.9	20.1	540.9	117.9	420.8	6.6
94CL42-24	585	7768	1.2	0.5435	2.7	0.0704	1.2	0.43	438.5	4.9	440.7	9.5	452.3	53.4	438.5	4.9
94CL42-101	222	5608	1.1	0.5674	5.4	0.0708	2.0	0.36	440.8	8.3	456.3	19.8	535.1	110.3	440.8	8.3
94CL42-20	473	6584	1.3	0.5728	3.8	0.0708	1.0	0.27	441.1	4.3	459.9	13.9	554.5	79.3	441.1	4.3
94CL42-108	433	11,328	1.1	0.5626	2.6	0.0724	1.0	0.38	450.5	4.4	453.2	9.6	467.0	53.8	450.5	4.4
94CL42-109	517	7312	0.6	0.5849	7.0	0.0726	1.8	0.26	451.7	7.9	467.6	26.4	546.3	148.7	451.7	7.9
94CL42-46	280	8730	2.4	0.5876	3.3	0.0730	1.0	0.30	454.5	4.4	469.4	12.5	542.7	69.1	454.5	4.4
94CL42-90	149	3702	2.1	0.6576	8.3	0.0777	2.7	0.32	482.4	12.5	513.1	33.6	652.7	169.7	482.4	12.5
94CL42-53	1014	17,208	2.1	0.6257	2.9	0.0787	2.1	0.73	488.2	9.8	493.4	11.2	517.7	43.3	488.2	9.8
94CL42-42	140	5382	0.8	0.6247	6.1	0.0797	1.3	0.22	494.6	6.4	492.8	23.8	484.3	131.7	494.6	6.4
94CL42-75	237	4906	1.8	0.6342	5.0	0.0799	2.6	0.52	495.7	12.4	498.7	19.9	512.6	95.1	495.7	12.4
94CL42-33	129	2930	1.3	0.6529	4.8	0.0801	2.8	0.58	496.9	13.3	510.2	19.2	570.5	84.9	496.9	13.3
94CL42-11	212	3470	1.6	0.6925	8.3	0.0803	1.0	0.12	498.2	4.8	534.3	34.5	691.7	175.9	498.2	4.8
94CL42-40	634	12,396	2.5	0.6350	4.7	0.0813	3.7	0.79	503.6	17.9	499.2	18.4	478.8	63.5	503.6	17.9
94CL42-17	408	7472	0.9	0.7274	5.5	0.0825	1.7	0.31	511.0	8.3	555.1	23.6	740.3	111.2	511.0	8.3
94CL42-12	721	6216	5.0	0.7051	5.3	0.0827	4.2	0.80	511.9	20.8	541.8	22.1	669.7	66.9	511.9	20.8
94CL42-94	631	11,668	3.6	0.7059	4.6	0.0841	2.0	0.43	520.8	10.1	542.3	19.5	633.7	90.2	520.8	10.1
94CL42-60	142	3524	1.3	0.7256	10.6	0.0880	3.1	0.29	543.8	16.3	554.0	45.3	595.8	220.3	543.8	16.3
94CL42-8	899	7506	1.1	0.7260	6.4	0.0885	1.9	0.30	546.8	10.1	554.2	27.2	584.8	131.8	546.8	10.1
94CL42-23	159	4648	1.1	0.7233	6.6	0.0890	1.8	0.28	549.5	9.6	552.6	28.0	565.6	137.5	549.5	9.6
94CL42-66	456	16,352	1.9	0.7292	3.9	0.0905	2.5	0.64	558.5	13.5	556.1	16.9	546.1	65.9	558.5	13.5

94CL42-106	77	2768	2.3	0.7261	9.2	0.0906	1.0	0.11	559.0	5.5	554.3	39.1	534.8	199.5	559.0	5.5
94CL42-10	282	4404	1.3	0.8043	4.4	0.0933	1.0	0.23	575.3	5.5	599.2	19.7	691.0	90.6	575.3	5.5
94CL42-72	84	2918	1.7	0.7812	3.8	0.0942	1.0	0.26	580.3	5.5	586.2	17.1	609.1	80.2	580.3	5.5
94CL42-41	192	7396	1.3	0.7862	5.4	0.0943	1.9	0.35	580.9	10.4	589.0	24.2	620.6	109.7	580.9	10.4
94CL42-31	283	7898	2.0	0.8191	2.9	0.0992	2.3	0.80	609.9	13.6	607.5	13.3	598.8	37.3	609.9	13.6
94CL42-62	273	11,482	5.1	0.8983	2.8	0.1066	1.1	0.39	652.7	6.8	650.8	13.5	644.1	55.4	652.7	6.8
94CL42-16	771	47,522	1.1	1.0925	2.8	0.1232	2.5	0.87	749.1	17.3	749.7	14.9	751.5	28.8	749.1	17.3
94CL42-107	66	4764	2.9	1.5346	5.5	0.1598	2.5	0.45	955.8	22.1	944.4	34.0	917.8	101.6	917.8	101.6
94CL42-92	359	35,056	3.2	1.6232	3.2	0.1657	2.9	0.90	988.1	26.6	979.2	20.3	959.4	28.9	959.4	28.9
94CL42-35	271	11,636	0.9	1.5951	3.5	0.1617	3.2	0.89	966.3	28.4	968.3	22.2	972.7	32.9	972.7	32.9
94CL42-44	251	14,760	2.6	1.6453	2.8	0.1650	1.6	0.55	984.2	14.2	987.7	17.9	995.5	48.2	995.5	48.2
94CL42-9	208	10,630	1.9	1.6458	3.4	0.1635	1.0	0.30	976.1	9.1	987.9	21.4	1014.2	65.5	1014.2	65.5
94CL42-4	250	7432	3.9	1.7347	5.4	0.1717	1.0	0.19	1021.3	9.4	1021.5	34.7	1022.0	107.3	1022.0	107.3
94CL42-52	442	21,982	8.8	1.4446	1.9	0.1423	1.0	0.52	857.6	8.0	907.6	11.5	1031.3	33.2	1031.3	33.2
94CL42-19	325	46,228	10.4	1.6435	2.4	0.1616	1.6	0.68	965.9	14.7	987.1	15.1	1034.4	35.4	1034.4	35.4
94CL42-88	81	7314	1.3	1.8232	5.7	0.1790	4.2	0.73	1061.7	40.6	1053.8	37.5	1037.4	79.4	1037.4	79.4
94CL42-36	99	5256	3.1	1.8239	3.2	0.1787	1.0	0.31	1059.6	9.8	1054.1	21.1	1042.7	61.7	1042.7	61.7
94CL42-104	235	9922	2.6	1.7271	2.6	0.1690	1.0	0.40	1006.8	9.5	1018.7	16.5	1044.2	47.6	1044.2	47.6
94CL42-95	334	21,352	2.2	1.6907	9.2	0.1647	8.9	0.97	983.0	81.4	1005.0	58.7	1053.3	43.1	1053.3	43.1
94CL42-99	118	2598	1.1	1.5788	4.1	0.1531	1.2	0.28	918.0	9.8	961.9	25.3	1063.5	78.4	1063.5	78.4
94CL42-25	47	2802	1.4	1.7993	9.1	0.1732	2.2	0.24	1029.7	21.1	1045.2	59.8	1077.7	178.4	1077.7	178.4
94CL42-79	246	22,892	2.2	1.9256	2.8	0.1842	1.5	0.52	1090.1	14.6	1090.0	18.8	1089.9	48.3	1089.9	48.3
94CL42-51	104	10,336	2.5	1.8860	3.4	0.1801	1.0	0.29	1067.6	9.8	1076.2	22.8	1093.5	65.8	1093.5	65.8
94CL42-78	529	30,190	4.7	1.9583	1.8	0.1858	1.2	0.66	1098.5	11.9	1101.3	12.1	1106.7	27.0	1106.7	27.0
94CL42-28	127	12,890	3.3	1.9577	3.9	0.1852	1.0	0.26	1095.5	10.1	1101.1	26.2	1112.1	75.4	1112.1	75.4
94CL42-50	118	3220	1.7	1.9037	3.2	0.1765	1.8	0.57	1048.0	17.6	1082.4	21.4	1152.3	52.7	1152.3	52.7
94CL42-85	348	24,490	2.6	2.1668	2.7	0.1999	1.6	0.60	1174.6	17.6	1170.5	19.0	1162.8	43.2	1162.8	43.2
94CL42-110	121	8142	9.0	2.0694	5.4	0.1892	2.1	0.39	1116.9	21.7	1138.7	37.1	1180.6	98.8	1180.6	98.8
94CL42-5	231	14,180	2.6	2.2950	2.5	0.2077	1.0	0.40	1216.7	11.1	1210.7	17.9	1200.2	45.8	1200.2	45.8
94CL42-103	112	7236	1.3	2.3090	1.9	0.2088	1.0	0.52	1222.7	11.1	1215.1	13.7	1201.6	32.7	1201.6	32.7
94CL42-39	185	12,040	3.1	2.2201	2.7	0.2008	1.8	0.68	1179.5	19.4	1187.4	18.6	1201.8	38.5	1201.8	38.5
94CL42-29	71	5878	1.8	2.3568	2.5	0.2121	1.3	0.54	1239.8	15.1	1229.6	17.8	1211.8	41.6	1211.8	41.6
94CL42-43	109	8474	3.0	2.1865	3.9	0.1966	3.1	0.79	1157.1	32.4	1176.7	27.0	1212.9	46.9	1212.9	46.9
94CL42-86	104	8868	3.0	2.2625	4.1	0.2033	1.3	0.32	1193.2	14.4	1200.7	29.0	1214.1	76.9	1214.1	76.9
94CL42-47	552	21,580	2.4	2.1260	3.1	0.1909	2.4	0.79	1126.3	25.1	1157.3	21.2	1215.8	36.9	1215.8	36.9
94CL42-3	129	7784	3.0	2.1974	2.7	0.1973	1.4	0.51	1160.7	14.4	1180.2	18.6	1216.2	45.2	1216.2	45.2
94CL42-54	39	3890	1.4	2.2471	5.4	0.2003	1.5	0.27	1176.8	15.7	1195.9	37.7	1230.5	101.5	1230.5	101.5
94CL42-59	113	9020	2.3	2.3872	3.6	0.2123	2.7	0.74	1241.3	30.3	1238.8	26.1	1234.4	48.3	1234.4	48.3

94CL42-56	215	15,858	2.0	2.4536	1.8	0.2176	1.0	0.54	1269.0	11.5	1258.5	13.3	1240.5	30.3	1240.5	30.3
94CL42-100	91	6392	3.2	2.3634	1.9	0.2087	1.1	0.58	1221.9	12.6	1231.6	13.8	1248.7	30.8	1248.7	30.8
94CL42-37	22	1234	1.3	2.1308	13.0	0.1845	1.6	0.12	1091.5	16.0	1158.9	90.2	1287.0	252.7	1287.0	252.7
94CL42-48	24	1488	1.7	2.3448	6.1	0.2003	2.0	0.33	1176.9	21.5	1226.0	43.5	1313.4	111.9	1313.4	111.9
94CL42-82	241	9870	13.4	2.5776	3.1	0.2163	2.5	0.81	1262.1	28.5	1294.3	22.5	1348.1	35.0	1348.1	35.0
94CL42-2	61	2596	0.8	2.1739	8.0	0.1812	2.9	0.36	1073.6	28.4	1172.7	55.8	1360.6	144.3	1360.6	144.3
94CL42-84	196	14,826	2.1	2.9192	2.8	0.2400	2.2	0.79	1386.6	27.3	1386.9	20.9	1387.3	32.2	1387.3	32.2
94CL42-58	723	36,850	2.8	2.9709	2.1	0.2429	1.0	0.48	1401.6	12.6	1400.2	15.8	1398.1	34.9	1398.1	34.9
94CL42-13	114	10,072	1.2	3.1583	2.0	0.2520	1.4	0.67	1448.8	17.5	1447.0	15.5	1444.5	28.4	1444.5	28.4
94CL42-81	92	9090	2.3	3.1454	3.1	0.2503	1.9	0.61	1439.8	24.3	1443.9	23.8	1449.8	46.7	1449.8	46.7
94CL42-38	360	22,806	2.2	3.2591	2.4	0.2588	1.1	0.46	1483.6	14.4	1471.3	18.4	1453.7	40.0	1453.7	40.0
94CL42-87	317	6832	1.3	2.9630	2.6	0.2340	1.0	0.40	1355.5	12.7	1398.2	19.7	1463.8	45.1	1463.8	45.1
94CL42-76	80	14,976	0.9	3.3008	2.9	0.2594	1.1	0.38	1486.7	14.3	1481.2	22.3	1473.4	50.2	1473.4	50.2
94CL42-105	172	15,498	3.0	3.2631	2.2	0.2564	1.5	0.68	1471.2	20.0	1472.3	17.4	1473.8	31.2	1473.8	31.2
94CL42-65	556	30,960	1.4	3.1546	3.1	0.2468	2.7	0.89	1422.1	34.7	1446.1	23.6	1481.6	26.6	1481.6	26.6
94CL42-57	231	21,290	2.5	3.4589	1.6	0.2650	1.0	0.63	1515.5	13.5	1517.9	12.6	1521.2	23.4	1521.2	23.4
94CL42-64	442	45,768	0.9	3.5802	1.7	0.2723	1.4	0.82	1552.7	19.6	1545.1	13.8	1534.8	18.8	1534.8	18.8
94CL42-80	111	5860	1.1	3.2700	4.7	0.2396	2.5	0.53	1384.6	31.0	1474.0	36.5	1605.1	74.3	1605.1	74.3
94CL42-93	130	19,618	2.0	3.8523	4.0	0.2796	3.9	0.96	1589.4	54.2	1603.8	32.5	1622.7	21.8	1622.7	21.8
94CL42-26	554	28,112	3.3	3.4211	3.6	0.2471	2.4	0.67	1423.4	30.9	1509.3	28.5	1631.8	50.1	1631.8	50.1
94CL42-14	328	31,890	1.3	4.0416	2.9	0.2919	2.1	0.72	1650.9	30.4	1642.6	23.8	1632.0	37.9	1632.0	37.9
94CL42-74	136	13,302	2.1	4.1003	2.3	0.2941	1.0	0.44	1662.1	14.7	1654.4	18.6	1644.6	38.1	1644.6	38.1
94CL42-71	308	29,920	4.9	4.1629	3.9	0.2980	2.7	0.69	1681.3	39.4	1666.7	31.7	1648.4	52.3	1648.4	52.3
94CL42-61	72	6764	1.0	4.2821	2.5	0.3009	1.0	0.41	1695.9	14.9	1689.9	20.2	1682.6	41.4	1682.6	41.4
94CL42-30	271	18,896	3.0	4.1070	2.6	0.2864	1.8	0.71	1623.4	26.3	1655.7	21.1	1697.0	33.6	1697.0	33.6
94CL42-102	65	7170	2.4	4.3676	2.8	0.3042	1.8	0.63	1712.1	26.3	1706.2	23.1	1699.1	40.0	1699.1	40.0
94CL42-73	140	10,278	2.1	4.1415	2.4	0.2865	1.6	0.67	1624.1	23.3	1662.5	19.8	1711.5	33.0	1711.5	33.0
94CL42-34	47	3358	1.3	4.4675	4.4	0.3090	2.4	0.54	1735.6	36.2	1725.0	36.7	1712.0	68.5	1712.0	68.5
94CL42-83	114	12,338	1.6	4.4142	4.1	0.3050	3.7	0.90	1715.8	56.0	1715.0	34.2	1714.0	32.9	1714.0	32.9
94CL42-1	117	13,016	1.9	4.5880	2.2	0.3115	1.0	0.45	1748.3	15.3	1747.1	18.7	1745.7	36.7	1745.7	36.7
94CL42-18	214	58,256	1.8	4.4472	3.9	0.3006	1.3	0.33	1694.3	19.1	1721.2	32.0	1754.0	66.6	1754.0	66.6
94CL42-27	182	30,316	2.2	4.7723	2.2	0.3189	1.8	0.82	1784.2	28.5	1780.0	18.8	1775.1	23.6	1775.1	23.6
94CL42-22	794	7736	5.5	5.0441	3.4	0.3192	2.4	0.72	1785.8	38.1	1826.8	28.7	1873.8	42.3	1873.8	42.3
94CL42-45	403	42,726	1.1	5.4497	2.2	0.3423	1.3	0.58	1897.9	20.7	1892.7	18.6	1887.1	31.9	1887.1	31.9
94CL42-89	126	12,776	1.4	5.4704	2.9	0.3421	1.0	0.35	1896.7	16.9	1896.0	25.3	1895.2	49.6	1895.2	49.6
94CL42-55	214	35,834	1.3	5.1968	2.1	0.3245	1.5	0.68	1811.6	23.1	1852.1	18.2	1897.9	28.1	1897.9	28.1
94CL42-67	232	38,290	9.8	5.4855	1.8	0.3410	1.4	0.80	1891.6	23.3	1898.3	15.2	1905.7	19.1	1905.7	19.1



94CL42-68	265	48,630	3.0	5.5934	1.9	0.3461	1.3	0.68	1915.9	20.9	1915.1	16.0	1914.1	24.4	1914.1	24.4
94CL42-77	121	15,254	2.5	10.3389	5.5	0.4376	4.5	0.83	2340.1	89.1	2465.6	50.7	2570.8	51.2	2570.8	51.2
94CL42-63	183	12,886	3.1	12.1041	1.6	0.4763	1.1	0.69	2510.9	23.3	2612.5	15.3	2692.2	19.5	2692.2	19.5
94CL42-91	83	27,206	1.3	14.5241	2.5	0.5408	1.5	0.60	2786.9	33.9	2784.6	23.8	2782.9	32.8	2782.9	32.8
94CL42-32	62	12,080	1.9	18.0143	5.6	0.5942	4.9	0.88	3006.6	118.7	2990.5	53.8	2979.7	41.9	2979.7	41.9

†All uncertainties are reported at the 1-sigma level and include only measurement errors. Systematic errors would increase age uncertainties by 1–2%.

The U concentration and U/Th are calibrated relative to NIST SRM 610 and are accurate to about 20%.

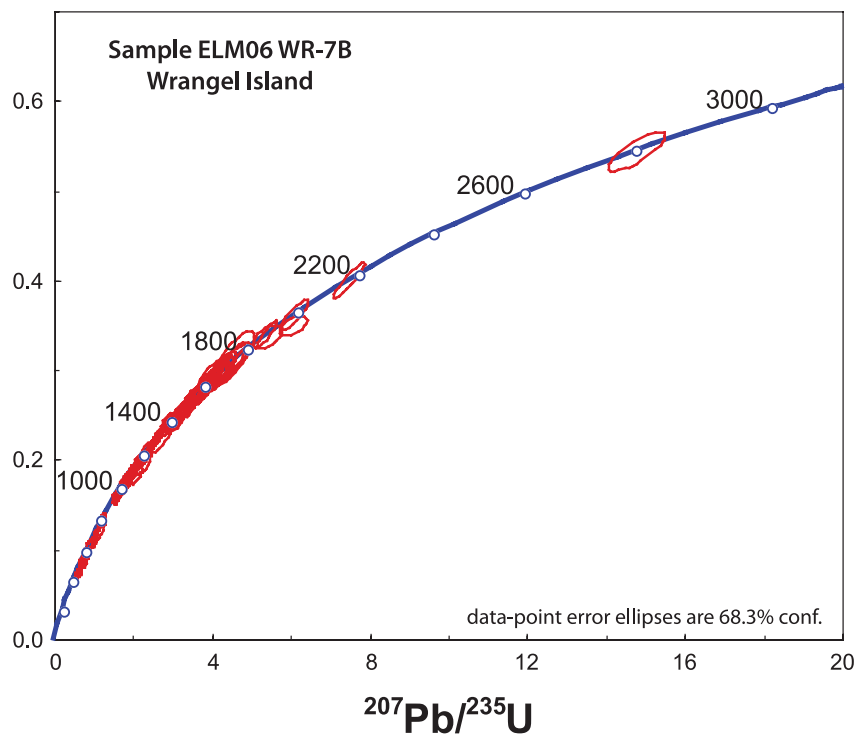
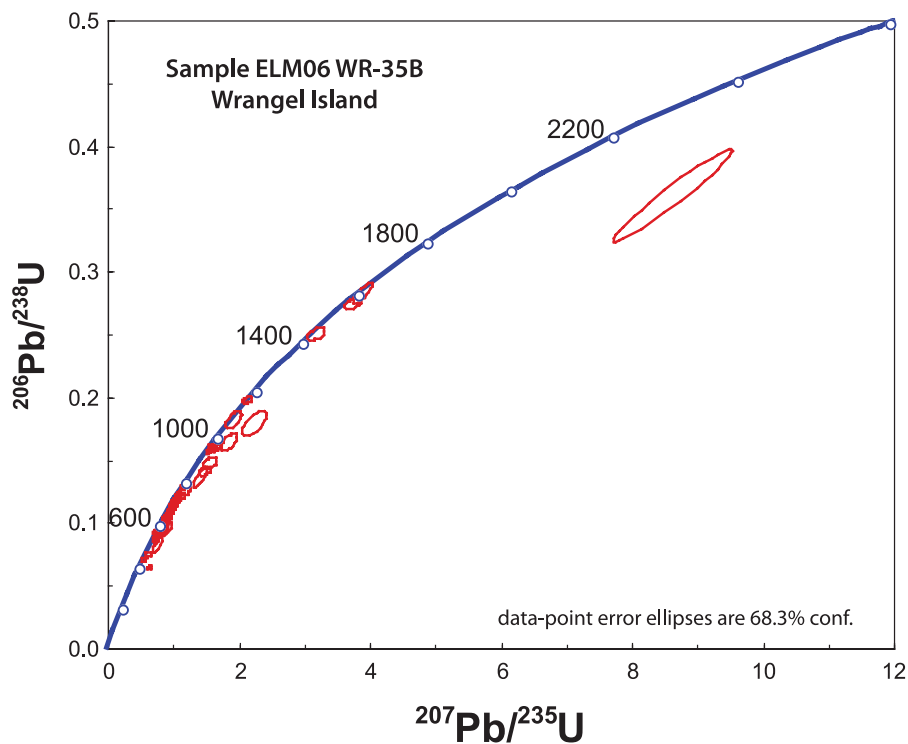
Common Pb correction is from  $^{204}\text{Pb}$ , with composition interpreted from Stacey and Kramers (1975) and uncertainties of 1.0 for  $^{206}\text{Pb}/^{204}\text{Pb}$ , 0.3 for  $^{207}\text{Pb}/^{204}\text{Pb}$ , and 2.0 for  $^{208}\text{Pb}/^{204}\text{Pb}$ .

The U/Pb and  $^{206}\text{Pb}/^{207}\text{Pb}$  fractionation is calibrated relative to fragments of a large Sri Lanka zircon of  $563 \pm 3.2$  Ma (2-sigma). Concentrations of U and Th are calibrated relative to U and Th in our Sri Lanka zircon standard.

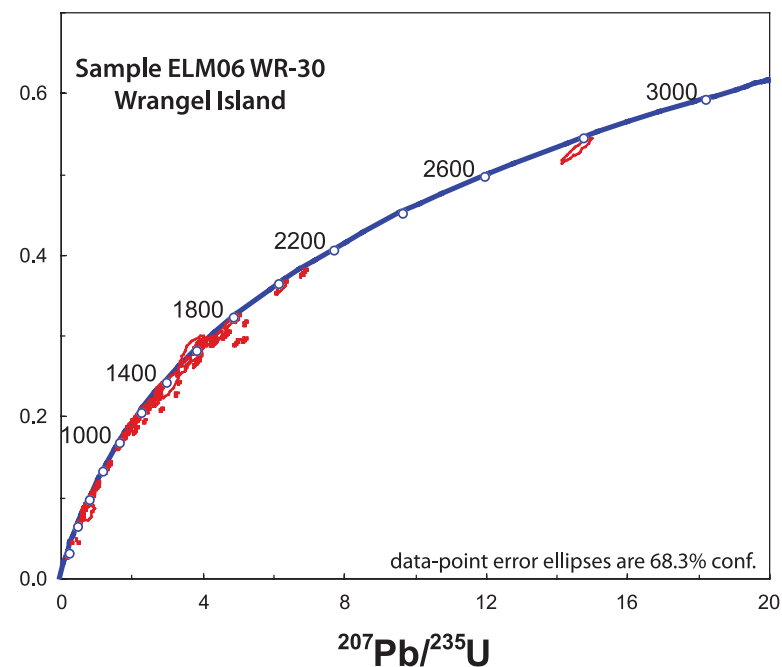
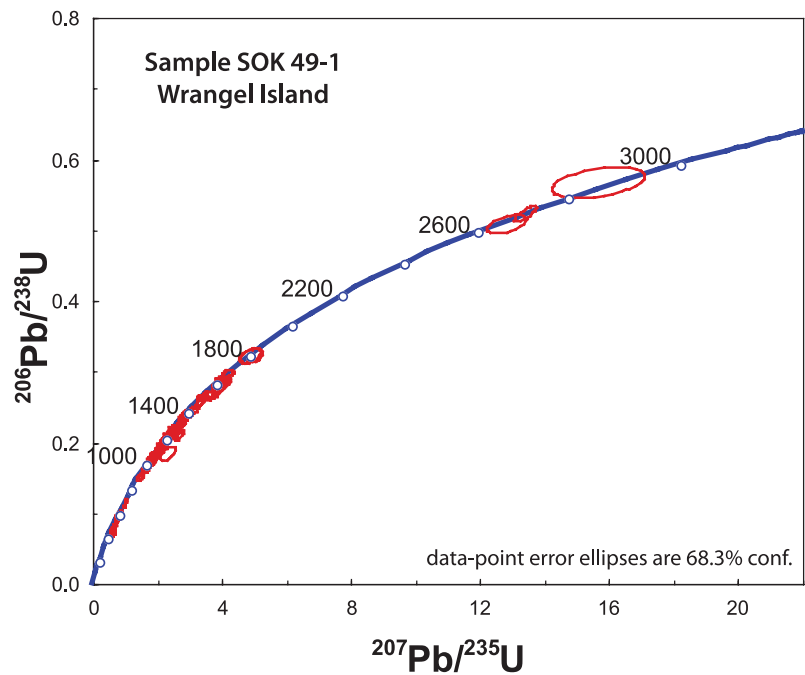
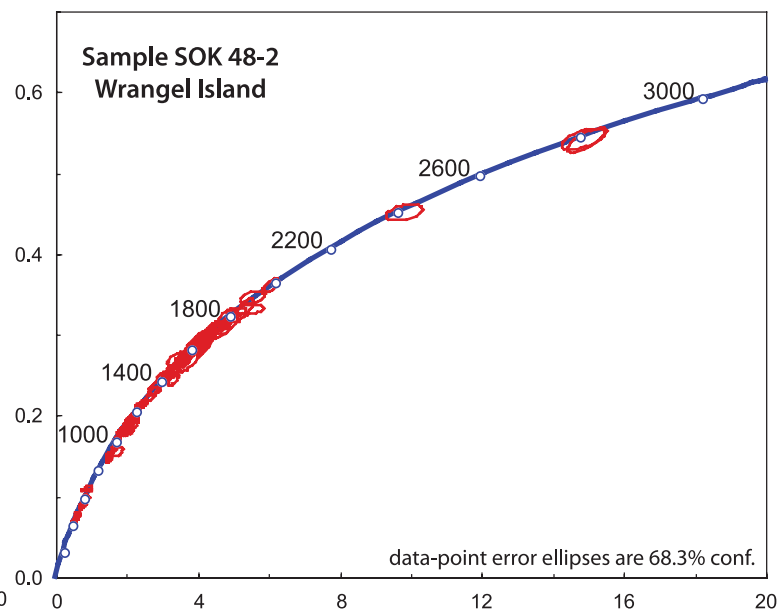
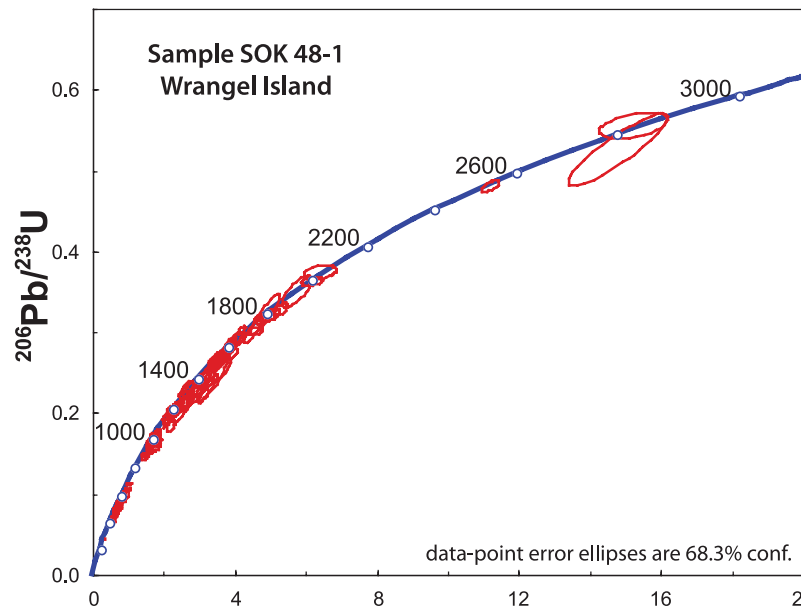
The U decay constants and composition are as follows:  $^{238}\text{U} = 9.8485 \times 10^{-10}$ ,  $^{235}\text{U} = 1.55125 \times 10^{-10}$ ,  $^{238}\text{U}/^{235}\text{U} = 137.88$ .

\*Radiogenic (produced from radioactive decay).

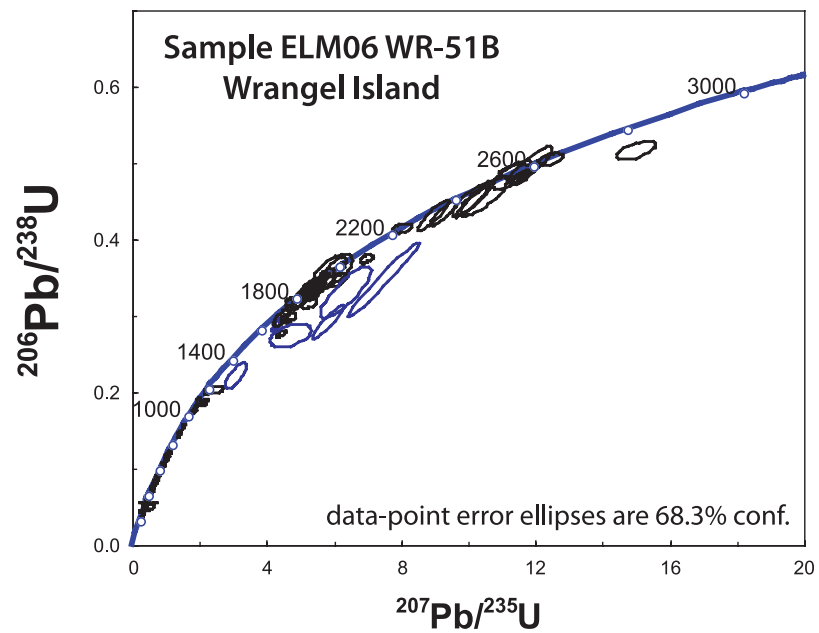
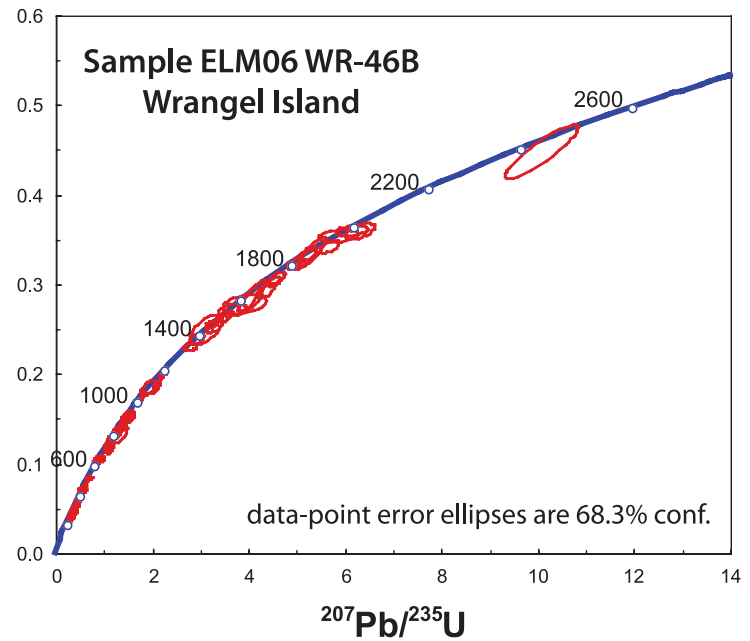
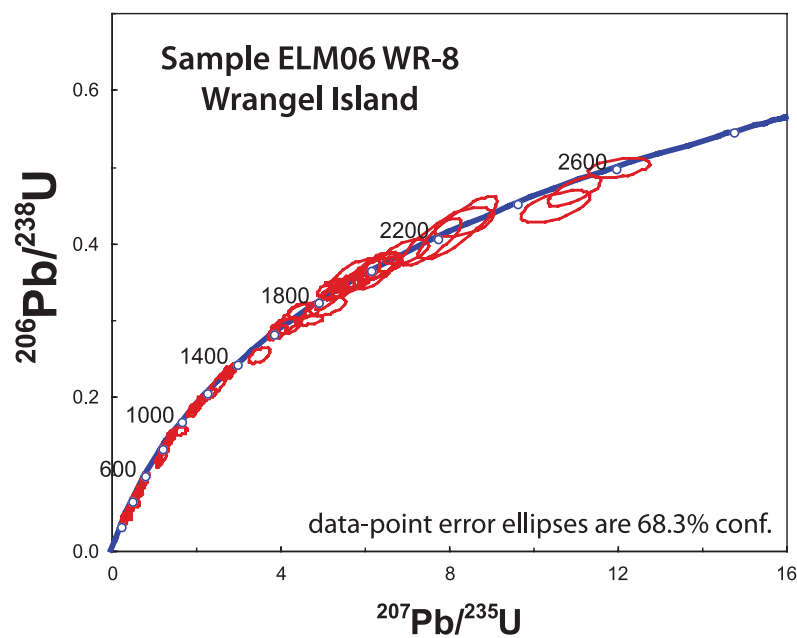
#### APPENDIX 4: CONCORDIA PLOTS



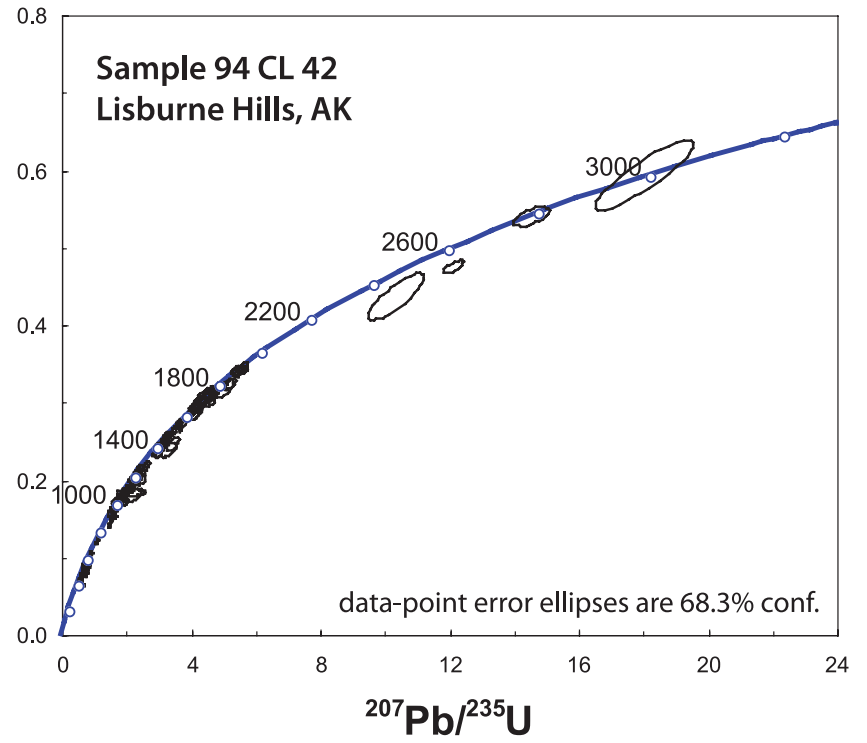
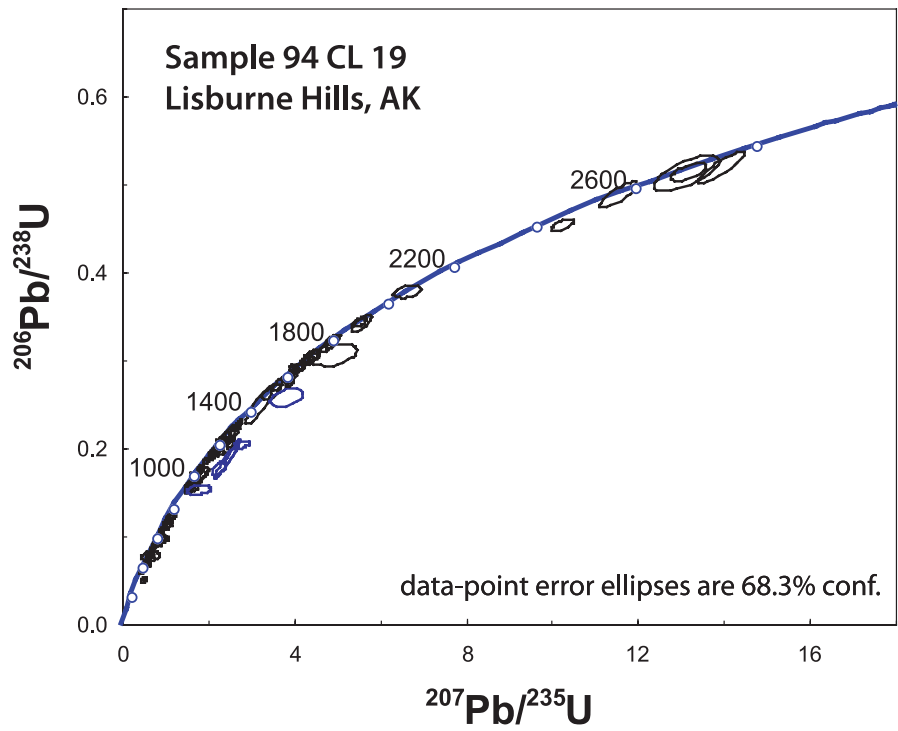
Concordia plots for Devonian-Mississippian and Mississippian, Wrangel Island, Russia.



Concordia plots for Upper Paleozoic, Carboniferous–Permian sandstones, Wrangel Island, Russia.



Concordia plots for Triassic sandstone samples, Wrangel Island, Russia.



Concordia plots for Mississippian Kapaloak Sandstone samples, Lisburne Hills, Alaska.