

This Supplemental Material accompanies Miller, E.L., Raftrey, M.E., and Lund Snee, J.-E., 2021, Downhill from Austin and Ely to Las Vegas: U-Pb detrital zircon suites from the Eocene–Oligocene Titus Canyon Formation and associated strata, Death Valley, California, *Geological Society of America Bulletin*, v. 132, p. 1559–1574. This Supplemental Material D.H., Foreman, B.Z., and Konstantinou, A., eds., Tectonic Evolution of the Sevier-Laramide Hinterland, Thrust Belt, and Foreland, and Postorogenic Slab Rollback (180–20 Ma): Geological Society of America Special Paper 555, [https://doi.org/10.1130/2021.2555\(14\)](https://doi.org/10.1130/2021.2555(14)).

Table S1. Detrital Zircon U-Pb data

Sample/Analysis	Isotope ratios										Apparent ages (Ma)									
	U (ppm)	²⁰⁶ Pb 204Pb	U/Th	²⁰⁶ Pb* 207Pb*	± (%)	²⁰⁷ Pb* 235U	± (%)	²⁰⁶ Pb* 238U	± (%)	error corr.	²⁰⁶ Pb* 238U	± (Ma)	²⁰⁷ Pb* 235U	± (Ma)	²⁰⁷ Pb* 206Pb*	± (Ma)	Best age (Ma)	± (Ma)	Conc (%)	
ELM15MC-10																				
Spot 114	507	25114	0.6	20.6239	5.4	0.0978	5.5	0.0146	1.0	0.19	93.6	1.0	94.7	5.0	123.1	126.8	93.6	1.0	NA	
Spot 56	87	9489	1.0	21.1666	23.9	0.0974	24.2	0.0149	3.9	0.16	95.6	3.7	94.3	21.8	61.6	575.9	95.6	3.7	NA	
Spot 39	301	13803	2.1	20.0961	7.6	0.1046	8.0	0.0152	2.7	0.34	97.5	2.6	101.0	7.7	183.8	176.3	97.5	2.6	NA	
Spot 62	169	10917	1.5	20.8670	16.0	0.1014	16.2	0.0153	2.9	0.18	98.1	2.8	98.0	15.1	95.5	379.7	98.1	2.8	NA	
Spot 6	869	97391	0.9	21.3437	3.1	0.1003	3.3	0.0155	0.9	0.29	99.3	0.9	97.0	3.0	41.7	75.2	99.3	0.9	NA	
Spot 97	149	9690	2.3	20.0668	24.0	0.1081	24.4	0.0157	4.3	0.18	100.6	4.3	104.2	24.2	187.2	566.0	101	4.3	NA	
Spot 36	844	21147	1.9	20.8507	4.0	0.1057	4.0	0.0160	0.8	0.19	102.2	0.8	102.0	3.9	97.3	94.1	102	0.8	NA	
Spot 38	271	24572	1.4	21.9509	12.3	0.1015	12.4	0.0162	1.6	0.13	103.3	1.6	98.2	11.6	-25.8	298.6	103	1.6	NA	
Spot 118	345	41275	1.7	20.4419	4.4	0.1093	4.6	0.0162	1.0	0.23	103.6	1.1	105.3	4.6	144.0	104.1	104	1.1	NA	
Spot 60	383	33308	2.4	21.5475	8.1	0.1045	8.2	0.0163	1.1	0.13	104.4	1.1	100.9	7.9	19.0	195.7	104	1.1	NA	
Spot 117	523	25700	1.9	20.9572	5.5	0.1085	6.5	0.0165	3.5	0.54	105.4	3.7	104.6	6.5	85.2	130.2	105	3.7	NA	
Spot 34	682	98003	1.4	20.9260	2.3	0.1171	2.6	0.0178	1.1	0.44	113.5	1.3	112.4	2.7	88.8	55.0	114	1.3	NA	
Spot 46	619	22455	3.9	20.6783	3.9	0.1209	4.1	0.0181	1.0	0.24	115.9	1.1	115.9	4.4	116.9	92.7	116	1.1	NA	
Spot 101	610	81857	1.4	20.9008	2.4	0.1206	2.7	0.0183	1.3	0.47	116.8	1.5	115.6	3.0	91.6	56.8	117	1.5	NA	
Spot 35	114	10124	1.0	19.9922	14.1	0.1624	14.6	0.0236	4.1	0.28	150.1	6.0	152.8	20.8	195.9	328.2	150	6.0	NA	
Spot 67	246	2290	0.8	16.6809	23.9	0.2013	24.1	0.0244	3.2	0.13	155.1	4.9	186.2	41.0	601.7	523.2	155	4.9	NA	
Spot 12	255	21973	1.1	20.6989	7.0	0.1689	7.1	0.0254	1.3	0.19	161.4	2.1	158.5	10.4	114.5	164.2	161	2.1	NA	
Spot 7	259	43125	1.3	21.9313	6.4	0.1596	6.5	0.0254	0.9	0.14	161.6	1.4	150.4	9.1	-23.6	155.6	162	1.4	NA	
Spot 26	289	26388	0.9	20.8272	5.6	0.1684	5.7	0.0254	1.2	0.21	161.9	1.9	158.0	8.3	100.0	131.9	162	1.9	NA	
Spot 53	106	16159	0.9	22.2842	24.1	0.1576	24.2	0.0255	2.8	0.11	162.1	4.4	148.6	33.5	-62.4	594.0	162	4.4	NA	
Spot 11	162	21024	1.4	20.1989	15.2	0.1744	15.5	0.0256	2.9	0.19	162.7	4.7	163.3	23.4	171.9	357.5	163	4.7	NA	
Spot 52	69	11686	1.1	21.1724	27.4	0.1666	27.6	0.0256	3.3	0.12	162.8	5.3	156.4	40.0	61.0	663.3	163	5.3	NA	
Spot 25	381	31064	0.9	19.9008	3.7	0.1779	3.7	0.0257	0.7	0.19	163.4	1.1	166.2	5.7	206.6	85.4	163	1.1	NA	
Spot 49	337	14927	0.7	19.6362	5.7	0.1803	5.9	0.0257	1.6	0.27	163.4	2.5	168.3	9.1	237.5	130.6	163	2.5	NA	
Spot 102	275	21103	1.0	20.1135	9.2	0.1762	9.2	0.0257	1.0	0.10	163.6	1.5	164.8	14.0	181.8	213.9	164	1.5	NA	
Spot 100	303	57710	1.4	20.1317	4.4	0.1760	4.6	0.0257	1.3	0.28	163.6	2.1	164.6	7.0	179.7	103.4	164	2.1	NA	
Spot 108	127	26280	1.2	19.5663	16.6	0.1812	16.8	0.0257	2.7	0.16	163.7	4.4	169.1	26.2	245.7	383.7	164	4.4	NA	
Spot 20	289	3617	1.3	19.1963	6.3	0.1849	6.5	0.0257	1.5	0.23	163.9	2.4	172.3	10.3	289.5	144.6	164	2.4	NA	
Spot 16	274	31611	1.0	19.0287	3.4	0.1866	3.7	0.0258	1.3	0.35	163.9	2.1	173.7	5.9	309.5	78.5	164	2.1	NA	
Spot 105	265	42839	0.8	19.2497	7.8	0.1848	8.8	0.0258	3.9	0.44	164.2	6.3	172.2	13.9	283.2	179.8	164	6.3	NA	
Spot 71	117	15312	1.2	23.3728	20.8	0.1526	20.9	0.0259	1.5	0.07	164.7	2.5	144.2	28.1	-180.1	524.9	165	2.5	NA	
Spot 79	233	9834	1.2	20.1892	7.7	0.1769	7.8	0.0259	1.4	0.18	164.9	2.3	165.4	11.9	173.0	179.4	165	2.3	NA	
Spot 32	728	100723	0.5	19.9375	3.3	0.1799	3.5	0.0260	1.1	0.32	165.5	1.8	168.0	5.4	202.2	77.1	166	1.8	NA	
Spot 29	645	111889	0.9	19.9635	2.6	0.1797	3.0	0.0260	1.5	0.50	165.6	2.4	167.8	4.6	199.3	60.0	166	2.4	NA	
Spot 65	459	35760	0.6	20.1709	3.1	0.1780	3.2	0.0260	0.8	0.25	165.7	1.3	166.3	4.9	175.2	72.6	166	1.3	NA	
Spot 58	118	960	1.3	14.7834	26.8	0.2430	28.6	0.0261	10.0	0.35	165.8	16.3	220.9	56.9	857.6	566.6	166	16.3	NA	
Spot 95	204	16517	1.5	19.9661	12.1	0.1809	12.4	0.0262	2.7	0.22	166.7	4.4	168.8	19.2	198.9	281.1	167	4.4	NA	
Spot 81	225	26869	1.3	21.3872	3.9	0.1691	4.2	0.0262	1.5	0.36	166.9	2.5	158.6	6.2	36.8	93.5	167	2.5	NA	
Spot 99	375	26200	1.5	19.9976	4.3	0.1809	4.4	0.0262	1.0	0.23	166.9	1.7	168.8	6.9	195.3	100.2	167	1.7	NA	
Spot 107	362	124746	1.1	20.9378	2.5	0.1741	2.8	0.0264	1.1	0.41	168.2	1.9	162.9	4.2	87.4	60.2	168	1.9	NA	
Spot 112	296	38645	1.0	21.2766	3.1	0.1714	5.0	0.0264	3.9	0.78	168.3	6.5	160.6	7.5	49.2	74.8	168	6.5	NA	
Spot 119	344	64077	1.3	20.6368	2.1	0.1771	2.4	0.0265	1.2	0.49	168.7	2.0	165.6	3.7	121.6	49.1	169	2.0	NA	
Spot 87	271	25098	1.3	20.3964	5.9	0.1794	6.3	0.0265	2.3	0.36	168.8	3.8	167.5	9.8	149.2	138.7	169	3.8	NA	
Spot 9	797	61230	0.5	20.0979	2.6	0.1821	2.7	0.0265	0.8	0.29	168.8	1.3	169.8	4.3	183.6	60.9	169	1.3	NA	
Spot 75	363	9104	1.5	19.3406	6.0	0.1901	6.6	0.0267	2.7	0.40	169.6	4.4	176.7	10.7	272.3	138.8	170	4.4	NA	
Spot 33	698	73540	1.3	20.0634	2.5	0.1842	4.2	0.0268	3.4	0.81	170.6	5.7	171.7	6.6	187.6	57.1	171	5.7	NA	
Spot 4	168	15572	2.5	19.9652	7.6	0.1860	7.7	0.0269	1.4	0.18	171.4	2.3	173.2	12.3	199.0	177.3	171	2.3	NA	
Spot 93	262	25613	1.2	20.1118	7.2	0.1848	7.3	0.0270	1.3	0.18	171.4	2.2	172.2	11.5	182.0	166.9	171	2.2	NA	
Spot 116	93	12352	1.3	21.8443	17.2	0.1702	17.3	0.0270	1.9	0.11	171.6	3.2	159.6	25.5	-14.0	417.6	172	3.2	NA	
Spot 48	153	20624	0.6	21.1719	11.3	0.1761	11.7	0.0270	2.9	0.25	172.0	4.9	164.7	17.7	61.0	270.1	172	4.9	NA	
Spot 24	140	27396	0.8	20.3532	11.1	0.1833	11.3	0.0271	2.2	0.19	172.1	3.7	170.9	17.8	154.1	260.0	172	3.7	NA	
Spot 76	376	62668	1.1	19.8718	4.0	0.1878	4.6	0.0271	2.2	0.48	172.1	3.7	174.7	7.4	209.9	93.4	172	3.7	NA	
Spot 13	124	21523	1.4	22.5478	11.8	0.1659	11.9	0.0271	2.0	0.17	172.5	3.5	155.8	17.3	-91.2	289.4	173	3.5	NA	
Spot 57	193	39777	1.4	19.3890	4.6	0.1934	4.7	0.0272	1.3	0.28	173.0	2.2	179.5	7.8	266.7	104.6	173	2.2	NA	
Spot 72	243	45219	0.7	20.0682	5.2	0.1869	5.6	0.0272	2.2	0.39	173.0	3.8	174.0	9.0	187.1	120.6				

Spot 37	904	61577	1.8	19.7226	1.2	0.2313	1.4	0.0331	0.5	0.40	209.8	1.1	211.3	2.6	227.4	28.8	210	1.1	NA
Spot 1	925	10475	1.7	19.3557	1.7	0.2359	2.8	0.0331	2.2	0.79	210.1	4.6	215.1	5.4	270.6	39.6	210	4.6	NA
Spot 111	863	97900	2.3	19.7264	1.1	0.2358	1.5	0.0337	1.0	0.64	213.9	2.0	215.0	2.9	226.9	26.3	214	2.0	NA
Spot 91	648	110676	1.3	19.6868	1.9	0.2383	2.0	0.0340	0.6	0.28	215.7	1.2	217.0	3.9	231.5	44.0	216	1.2	NA
Spot 70	880	123811	1.9	19.6718	1.0	0.2408	1.2	0.0344	0.6	0.53	217.7	1.3	219.1	2.3	233.3	23.0	218	1.3	NA
Spot 42	886	116888	1.9	19.8746	1.6	0.2405	1.7	0.0347	0.6	0.34	219.7	1.3	218.8	3.4	209.6	37.7	220	1.3	NA
Spot 98	874	242873	2.2	19.5513	1.0	0.2448	1.2	0.0347	0.7	0.59	220.0	1.5	222.3	2.4	247.5	22.5	220	1.5	NA
Spot 82	568	98522	1.7	19.3607	1.9	0.2492	2.9	0.0350	2.2	0.75	221.7	4.8	225.9	6.0	270.0	44.5	222	4.8	NA
Spot 69	578	86573	1.7	19.9361	2.3	0.2426	2.9	0.0351	1.8	0.61	222.2	3.9	220.5	5.8	202.4	54.0	222	3.9	NA
Spot 23	884	160034	1.9	19.6858	1.5	0.2469	1.6	0.0353	0.5	0.31	223.3	1.1	224.1	3.3	231.7	35.7	223	1.1	NA
Spot 64	734	102296	2.9	19.5899	1.1	0.2494	1.3	0.0354	0.7	0.53	224.5	1.5	226.1	2.6	242.9	25.2	224	1.5	NA
Spot 15	1394	199645	2.9	19.6858	0.9	0.2483	2.3	0.0354	2.1	0.92	224.6	4.6	225.2	4.6	231.6	21.4	225	4.6	NA
Spot 10	748	87528	1.8	19.8556	1.3	0.2476	1.7	0.0357	1.1	0.63	225.9	2.4	224.6	3.4	211.8	30.5	226	2.4	NA
Spot 63	525	152818	3.9	19.2432	1.6	0.2575	1.7	0.0359	0.5	0.31	227.6	1.2	232.7	3.5	283.9	36.5	228	1.2	NA
Spot 51	474	93774	2.0	19.4831	2.9	0.2569	3.0	0.0363	0.9	0.30	229.8	2.0	232.1	6.3	255.5	66.1	230	2.0	NA
Spot 94	393	45595	2.1	19.7832	2.1	0.2543	2.4	0.0365	1.2	0.49	231.0	2.7	230.1	5.0	220.3	49.1	231	2.7	NA
Spot 18	791	167917	1.6	19.4226	1.2	0.2599	1.3	0.0366	0.5	0.39	231.8	1.2	234.6	2.7	262.7	27.6	232	1.2	NA
Spot 47	264	59870	2.0	19.8320	3.7	0.2558	3.9	0.0368	1.0	0.26	232.9	2.3	231.3	8.0	214.6	86.5	233	2.3	NA
Spot 41	338	68111	2.0	20.1730	3.1	0.2515	3.3	0.0368	1.3	0.39	232.9	3.0	227.8	6.8	174.9	71.4	233	3.0	NA
Spot 90	1603	57200	2.4	19.5869	0.7	0.2595	1.0	0.0369	0.7	0.72	233.4	1.7	234.3	2.1	243.3	16.2	233	1.7	NA
Spot 103	985	38476	1.8	19.6913	0.9	0.2660	2.9	0.0380	2.8	0.95	240.4	6.5	239.5	6.2	231.0	21.5	240	6.5	NA
Spot 22	424	11583	1.6	18.9832	3.4	0.2796	3.9	0.0385	2.0	0.51	243.5	4.7	250.3	8.6	314.9	76.4	244	4.7	NA
Spot 45	170	125791	2.2	13.7505	1.3	1.6085	1.4	0.1604	0.5	0.36	959.1	4.4	973.5	8.6	1006.3	25.9	1006	25.9	95.309
Spot 66	39	25712	1.4	13.2835	4.2	1.7578	4.4	0.1693	1.3	0.30	1008.5	12.5	1030.0	28.8	1076.0	85.1	1076	85.1	93.725
Spot 74	179	114298	0.7	11.8481	0.6	2.4774	2.0	0.2129	1.9	0.96	1244.1	21.6	1265.4	14.4	1301.8	10.7	1302	10.7	95.570
Spot 61	134	118340	0.9	9.8209	0.8	4.1220	1.7	0.2936	1.5	0.87	1659.5	21.4	1658.7	13.8	1657.6	15.6	1658	15.6	100.115
Spot 8	111	224862	1.4	9.5533	0.4	4.2420	0.8	0.2939	0.6	0.82	1661.1	9.3	1682.2	6.4	1708.6	8.3	1709	8.3	97.218
Spot 106	40	58175	0.8	9.3544	1.1	4.7642	2.5	0.3232	2.2	0.89	1805.5	34.4	1778.6	20.7	1747.2	20.7	1747	20.7	103.332
Spot 96	223	368955	4.4	9.1911	0.4	5.0458	1.3	0.3364	1.2	0.96	1869.1	19.6	1827.1	10.7	1779.4	6.5	1779	6.5	105.041
Spot 30	321	468606	5.1	9.1824	0.3	4.8141	0.8	0.3206	0.7	0.93	1792.7	11.2	1787.4	6.5	1781.1	5.3	1781	5.3	100.649

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Spot 95	279	10950	1.3	21.8276	26.8	0.0329	27.1	0.0052	4.0	0.15	33.4	1.3	32.8	8.8	-12.2	658.0	33.4	1.3	NA
Spot 38	163	2366	1.2	11.0468	194.8	0.0660	195.0	0.0053	9.1	0.05	34.0	3.1	64.9	123.2	1436.6	543.9	34.0	3.1	NA
Spot 63	353	9650	2.0	15.5105	55.2	0.0478	55.4	0.0054	4.8	0.09	34.6	1.7	47.5	25.7	757.1	1265.0	34.6	1.7	NA
Spot 68	164	2639	1.5	6.2264	298.7	0.1193	298.8	0.0054	3.8	0.01	34.6	1.3	114.4	335.0	2462.0	166.5	34.6	1.3	NA
Spot 25	235	6163	1.5	10.8608	39.0	0.0688	39.2	0.0054	4.2	0.11	34.9	1.5	67.6	25.6	1468.9	770.3	34.9	1.5	NA
Spot 90	74	2035	1.3	5.9718	130.1	0.1257	130.8	0.0054	12.7	0.10	35.0	4.4	120.2	149.3	2532.3	503.6	35.0	4.4	NA
Spot 66	183	4618	1.1	8.5882	147.4	0.0875	147.4	0.0054	3.6	0.02	35.0	1.3	85.1	121.0	1902.2	26.2	35.0	1.3	NA
Spot 74	3355	77727	4.4	21.5725	4.0	0.0353	4.4	0.0055	1.9	0.43	35.5	0.7	35.2	1.5	16.1	96.2	35.5	0.7	NA
Spot 54	76	1169	1.6	2.4058	194.9	0.3169	195.2	0.0055	10.1	0.05	35.5	3.6	279.5	517.5	3966.7	1119.3	35.5	3.6	NA
Spot 106	2762	68344	5.0	20.5947	3.4	0.0372	3.6	0.0056	1.1	0.32	35.7	0.4	37.1	1.3	126.5	79.5	35.7	0.4	NA
Spot 17	3454	29394	4.6	21.2955	1.4	0.0362	5.5	0.0056	5.3	0.97	35.9	1.9	36.1	1.9	47.1	32.5	35.9	1.9	NA
Spot 9	1874	48769	4.7	20.9223	3.0	0.0369	3.1	0.0056	0.8	0.25	36.0	0.3	36.8	1.1	89.2	72.0	36.0	0.3	NA
Spot 67	2336	79621	4.7	21.9982	10.9	0.0351	10.9	0.0056	0.6	0.06	36.0	0.2	35.0	3.7	-31.0	264.0	36.0	0.2	NA
Spot 52	100	5358	1.7	-7.3268	249.2	-0.1059	249.3	0.0056	6.9	0.03	36.2	2.5	-113.6	-308.9	NA	NA	36.2	2.5	NA
Spot 109	2594	63666	3.9	21.0967	3.1	0.0370	3.3	0.0057	0.9	0.28	36.4	0.3	36.9	1.2	69.4	74.7	36.4	0.3	NA
Spot 11	1757	40449	5.2	21.6874	3.1	0.0361	3.2	0.0057	1.0	0.30	36.5	0.4	36.0	1.1	3.3	73.9	36.5	0.4	NA
Spot 112	169	5408	1.6	13.7040	139.1	0.0573	139.1	0.0057	4.3	0.03	36.6	1.6	56.6	76.7	1013.1	553.1	36.6	1.6	NA
Spot 15	219	5451	2.8	31.2021	36.7	0.0271	37.8	0.0061	9.0	0.24	39.4	3.5	27.1	10.1	-960.4	1108.7	39.4	3.5	NA
Spot 104	3694	149514	2.9	21.3705	2.3	0.0428	4.0	0.0066	3.3	0.82	42.6	1.4	42.6	1.7	38.7	54.2	42.6	1.4	NA
Spot 20	3705	29576	2.9	20.2755	2.8	0.0557	4.6	0.0082	3.6	0.78	52.6	1.9	55.1	2.5	163.1	66.5	52.6	1.9	NA
Spot 110	242	9121	3.4	20.6300	10.3	0.1046	10.5	0.0156	2.1	0.20	100.1	2.1	101.0	10.1	122.4	243.4	100	2.1	NA
Spot 78	315	11844	5.0	22.1694	22.7	0.0987	23.1	0.0159	4.4	0.19	101.5	4.4	95.6	21.1	-49.8	558.3	101	4.4	NA
Spot 101	148	6686	1.6	20.9562	14.9	0.1103	15.1	0.0168	2.6	0.17	107.2	2.7	106.2	15.3	85.4	355.5	107	2.7	NA
Spot 41	70	1831	1.3	13.4608	39.5	0.2480	39.7	0.0242	3.7	0.09	154.2	5.6	224.9	80.2	1049.4	828.7	154	5.6	NA
Spot 96	949	34279	1.5	20.4279	1.1	0.1668	2.1	0.0247	1.7	0.85	157.4	2.7	156.7	3.0	145.5	25.7	157	2.7	NA
Spot 48	111	12783	0.7	18.3249	48.2	0.1863	48.2	0.0248	1.8	0.04	157.7	2.8	173.5	77.0	394.6	1144.5	158	2.8	NA
Spot 31	122	7918	0.7	20.8989	14.9	0.1643	15.1	0.0249	2.3	0.15	158.6	3.6	154.5	21.6	91.8	354.1	159	3.6	NA
Spot 35	171	27678	0.8	20.4185	25.8	0.1684	25.8	0.0249	1.3	0.05	158.8	2.0	158.0	37.8	146.7	614.2	159	2.0	NA
Spot 13	315	16766	1.5	20.8542	4.0	0.1653	4.1	0.0250	0.8	0.20	159.2	1.3	155.3	5.9	96.9	95.2	159	1.3	NA
Spot 105	196	3352	0.8	19.1089	11.6	0.1822	11.7	0.0253	1.7	0.15	160.8	2.8	170.0	18.4	299.9	265.2	161	2.8	NA
Spot 60	585	26609	1.9	19.8994	6.4	0.1755	6.5	0.0253	0.9	0.14	161.2	1.4	164.2	9.8	206.7	149.1	161	1.4	NA
Spot 57	208	6867	0.9	23.4192	47.1	0.1500	47.3	0.0255	4.1	0.09	162.2	6.5	141.9	62.7	-185.0	1238.4	162	6.5	NA
Spot 36	160	11920	0.9	21.3821	18.7	0.1646	19.0	0.0255	2.9	0.15	162.4	4.7	154.7	27.2	37.4	451.7	162	4.7	NA
Spot 115	172	36780	0.8	20.1562	7.8	0.1746	8.0	0.0255	1.7	0.21	162.5	2.7	163.4	12.0	176.9	181.6	162	2.7	NA
Spot 18	137	12697	0.7	20.3648	8.3	0.1729	8.3	0.0255	1.1	0.14	162.6	1.8	161.9	12.5	152.8	193.8	163	1.8	NA
Spot 73	1067	78288	2.1	20.0220	3.6	0.1769	3.7	0.0257	0.5	0.13	163.5	0.8	165.4	5.6	192.5	84.8	163	0.8	NA
Spot 108	660	17798	2.0	20.3839	2.8	0.1744	3.2	0.0258	1.5	0.48	164.1	2.5	163.3	4.9	150.6	66.2	164	2.5	NA
Spot 19	468	54448	1.3	20.3841	13.0	0.1745	13.0	0.0258	0.7	0.05	164.2	1.2	163.3	19.7	150.6	306.3	164	1.2	NA
Spot 75	534	182879	1.1	20.4307	4.4	0.1741	4.4	0.0258	0.6	0.13	164.2	0.9	163.0	6.7	145.2	103.5	164	0.9	NA
Spot 69	352	33389	1.1	21.7416	15.1	0.1642	15.1	0.0259	0.9	0.06	164.8	1.4	154.4	21.6	-2.6	365.5	165	1.4	NA
Spot 51	96	7615	1.5	28.8343	67.5	0.1240	67.5	0.0259	2.0	0.03	165.1	3.3	118.7	75.8	-734.2	2115.8	165	3.3	NA
Spot 92	85	4237	1.0	24.9500	20.5	0.1439	20.7	0.0260	3.3	0.16	165.7	5.3	136.5	26.5	-345.8	532.3	166	5.3	NA
Spot 23	462	7625	1.0	23.4366	8.9	0.1532	8.9	0.0260	0.5	0.06	165.8	0.8	144.8	12.0	-186.9	221.5	166	0.8	NA
Spot 94	568	65566	1.1	20.2575	2.9	0.1777	3.0	0.0261	0.9	0.28	166.1	1.4	166.0	4.7	165.2	68.2	166	1.4	NA
Spot 64	695	65335	1.6	20.5940	8.9	0.1763	9.0	0.0263	1.4	0.15	167.5	2.3	164.8	13.7	126.6	209.3	168	2.3	NA
Spot 116	247	13503	0.7	19.3149	7.4	0.1895	7.5	0.0265	1.4	0.19	168.9	2.3	176.2	12.1	275.4	169.2	169	2.3	NA
Spot 5	147	9129	1.5	20.4916	8.0	0.1787	8.4	0.0266	2.4	0.28	169.0	4.0	166.9	12.9	138.2	189.3	169	4.0	NA
Spot 1	646	30862	2.1	20.1322	1.9	0.1821	2.0	0.0266	0.7	0.34	169.1	1.1	169.8	3.2	179.6	44.5	169	1.1	NA
Spot 117	320	26482	1.7	20.0100	4.7	0.1847	4.9	0.0268	1.2	0.25	170.5	2.0	172.1	7.7	193.8	109.5	171	2.0	NA
Spot 8	93	285	1.1	17.6502	33.3	0.2097	33.4	0.0268	3.2	0.09	170.7	5.3	193.3	58.9	478.2	754.7	171	5.3	NA
Spot 103	149	11624	1.1	19.9562	7.3	0.1866	7.5	0.0270	1.6	0.22	171.8	2.8	173.7	12.0	200.1	170.2	172	2.8	NA
Spot 82	114	10502	1.9	20.1779	22.9	0.1858	22.9	0.0272	1.1	0.05	173.0	1.9	173.0	36.5	174.3	539.9	173	1.9	NA
Spot 86	273	18236	1.0	19.7814	7.9	0.1900	8.1	0.0273	1.7	0.21	173.3	3.0	176.6	13.1	220.5	183.0	173	3.0	NA
Spot 114	288	27448	0.9	20.2869	6.2	0.1869	6.2	0.0275	0.7	0.12	174.9	1.3	174.0	9.9	161.8	144.1	175	1.3	NA
Spot 2	100	23425	1.1	19.2611	7.8	0.1969	8.3	0.0275	2.9	0.35	175.0	5.1	182.5	13.9	281.8	178.9	175	5.1	NA
Spot 85	266	44303	1.4	20.7185	7.1	0.1855	7.2	0.0279	0.9	0.12	177.2	1.5	172.8	11.4	112.3	168.4	177	1.5	NA
Spot 40	367	17216	0.8	20.3385	8.6	0.1898	8.8	0.0280	1.8	0.21	178.0	3.2	176.4	14.2	155.8	200.7	178	3.2	NA
Spot 33	678	103939	3.2	19.4617	1.9	0.2423	3.3	0.0342	2.7	0.81	216.8	5.7	220.3	6.5	258.1	44.7	217	5.7	NA
Spot 3	889	5810	1.1	18.9042	5.5	0.2551	6.7	0.0350	3.9	0.58	221.6	8.5	230.7	13.9	324.4	124.1	222	8.5	NA
Spot 84	664	88728	2.1	20.2104	3.9	0.2390	4.7	0.0350	2.7	0.57	222.0	5.9	217.6	9.3	170.6	91.0	222	5.9	NA
Spot 111	446	58492	2.6	19.5155	2.3	0.2492	2.5	0.0353	0.9	0.35	223.5	1.9	225.9	5.1	251.7	54.0	223	1.9	NA
Spot 100	474	77280	2.3	19.5280	3.1	0.2556	3.3	0.0362	0.9	0.27	229.2	1.9	231.1	6.7	250.2	72.5	229	1.9	NA
Spot 14	620	35343	2.6	19.2497	2.1	0.2605	2.9	0.0364	2.0	0.67	230.3	4.4	235.1	6.1	283.2	49.1	230	4.4	NA

Spot 72	1243	252632	1.1	19.3176	2.0	0.3114	2.1	0.0436	0.5	0.25	275.2	1.4	275.2	5.0	275.1	45.9	275	1.4	NA
Spot 49	130	17771	1.0	19.0310	25.1	0.4613	25.2	0.0637	1.4	0.06	397.9	5.5	385.1	80.9	309.2	580.5	398	5.5	NA
Spot 97	144	21060	0.9	17.6858	4.7	0.5195	5.6	0.0666	3.1	0.55	415.8	12.4	424.8	19.5	473.7	104.1	416	12.4	88
Spot 91	179	129344	10.8	17.9312	2.7	0.5577	2.9	0.0725	0.9	0.31	451.4	3.9	450.0	10.5	443.2	60.9	451	3.9	102
Spot 98	40	16181	1.9	17.1134	10.1	0.7781	10.5	0.0967	2.9	0.28	594.3	16.7	584.4	46.7	546.0	220.7	594	16.7	109
Spot 83	80	58446	2.0	14.0679	4.1	1.5754	4.5	0.1660	1.8	0.41	960.9	16.2	960.6	27.7	959.8	83.3	960	83.3	100
Spot 76	133	87439	2.1	13.8107	3.9	1.6658	3.9	0.1668	0.6	0.15	994.7	5.4	995.6	24.7	997.4	78.3	997	78.3	100
Spot 88	92	52105	1.9	13.8042	1.5	1.7055	1.9	0.1707	1.2	0.61	1016.2	11.0	1010.6	12.2	998.4	30.7	998	30.7	102
Spot 80	123	118650	2.4	13.4196	1.5	1.8217	1.8	0.1773	1.0	0.56	1052.2	9.6	1053.3	11.6	1055.5	29.7	1056	29.7	100
Spot 70	174	161589	3.1	13.2033	1.2	1.9895	1.5	0.1905	0.8	0.55	1124.1	8.4	1111.9	9.9	1088.2	24.6	1088	24.6	103
Spot 102	136	152037	2.0	13.1886	0.9	1.9740	1.8	0.1888	1.6	0.87	1115.0	16.3	1106.7	12.4	1090.4	18.4	1090	18.4	102
Spot 93	30	24063	1.1	13.0606	6.1	1.9420	6.2	0.1840	1.3	0.22	1088.5	13.4	1095.7	41.6	1109.9	121.1	1110	121.1	98
Spot 27	119	75515	2.0	13.0380	5.1	2.0679	5.1	0.1955	0.8	0.16	1151.3	8.8	1138.2	35.2	1113.4	101.3	1113	101.3	103
Spot 120	53	39209	2.1	12.9782	1.6	2.0451	1.8	0.1925	0.8	0.46	1134.9	8.5	1130.6	12.0	1122.5	31.2	1123	31.2	101
Spot 56	524	38200	1.9	12.7833	1.3	1.7886	4.6	0.1658	4.4	0.96	989.1	40.3	1041.3	29.9	1152.6	25.9	1153	25.9	86
Spot 107	41	57970	2.6	12.7632	4.8	2.1847	5.0	0.2022	1.1	0.23	1187.3	12.3	1176.2	34.6	1155.7	95.9	1156	95.9	103
Spot 87	231	95662	5.0	12.1056	0.8	2.1679	2.9	0.1903	2.8	0.96	1123.2	28.6	1170.8	20.2	1259.9	16.5	1260	16.5	89
Spot 47	37	34764	1.0	12.0701	7.1	2.6077	7.1	0.2283	0.6	0.08	1325.5	7.0	1302.8	52.1	1265.6	138.1	1266	138.1	105
Spot 22	169	231756	2.3	11.6544	0.5	2.7373	0.6	0.2314	0.4	0.62	1341.7	4.5	1338.6	4.5	1333.8	9.1	1334	9.1	101
Spot 99	82	60201	1.4	11.3826	1.3	2.7971	1.4	0.2309	0.6	0.42	1339.3	7.3	1354.8	10.7	1379.3	24.9	1379	24.9	97
Spot 55	392	97807	2.2	11.3711	0.9	2.6701	1.9	0.2202	1.6	0.87	1282.9	18.9	1320.2	13.8	1381.2	17.8	1381	17.8	93
Spot 53	42	34550	1.3	11.1115	8.2	3.0774	8.4	0.2480	1.5	0.18	1428.2	19.1	1427.1	64.2	1425.4	157.4	1425	157.4	100
Spot 24	375	236896	2.6	10.9786	0.8	2.7955	1.1	0.2226	0.8	0.70	1295.5	9.2	1354.3	8.4	1448.4	15.3	1448	15.3	89
Spot 29	16	20298	2.1	10.8846	9.6	3.2196	9.8	0.2542	1.7	0.18	1459.9	22.6	1461.9	76.0	1464.7	183.4	1465	183.4	100
Spot 118	22	21887	0.8	10.0113	3.0	3.9388	3.1	0.2860	0.8	0.25	1621.5	11.2	1621.7	25.1	1622.0	55.8	1622	55.8	100
Spot 10	360	10688	1.9	9.8450	0.5	3.3489	4.4	0.2391	4.4	0.99	1382.1	55.0	1492.5	34.8	1653.1	8.9	1653	8.9	84
Spot 21	23	29835	0.9	9.7275	2.0	4.2389	2.8	0.2991	1.9	0.70	1686.6	28.7	1681.6	22.7	1675.3	36.6	1675	36.6	101
Spot 89	43	57803	2.2	9.6197	1.4	4.3544	1.6	0.3038	0.7	0.44	1710.1	10.7	1703.7	13.3	1695.9	26.6	1696	26.6	101
Spot 77	274	360499	2.1	9.5705	0.4	4.4184	0.7	0.3067	0.5	0.80	1724.4	8.3	1715.8	5.7	1705.3	7.6	1705	7.6	101
Spot 59	57	41449	2.4	9.4854	6.0	4.2638	6.2	0.2933	1.5	0.24	1658.1	21.4	1686.4	50.9	1721.7	110.4	1722	110.4	96
Spot 46	202	464634	2.9	9.4517	1.3	4.5053	1.5	0.3088	0.8	0.53	1735.0	12.5	1732.0	12.8	1728.3	24.0	1728	24.0	100
Spot 39	225	32950	1.8	9.3856	1.1	3.8476	2.6	0.2619	2.4	0.90	1499.6	31.7	1602.8	21.2	1741.1	21.0	1741	21.0	86
Spot 37	346	35888	1.9	9.2144	0.3	4.2953	4.2	0.2871	4.2	1.00	1626.8	60.2	1692.5	34.6	1774.8	4.6	1775	4.6	92
Spot 43	310	475980	3.0	9.1422	0.7	4.9374	1.0	0.3274	0.7	0.67	1825.6	10.5	1808.7	8.3	1789.1	13.2	1789	13.2	102
Spot 30	251	16380	1.9	9.0607	0.5	4.6391	1.6	0.3049	1.5	0.96	1715.3	22.8	1756.3	13.2	1805.4	8.2	1805	8.2	95
Spot 4	71	104033	1.6	8.8722	0.5	5.1493	0.9	0.3313	0.7	0.77	1844.9	10.5	1844.3	7.3	1843.6	9.9	1844	9.9	100
Spot 26	41	32403	0.7	8.8688	6.4	5.1933	6.4	0.3340	0.6	0.09	1858.0	8.9	1851.5	54.8	1844.3	116.1	1844	116.1	101
Spot 32	42	115577	1.0	8.8201	1.6	5.0480	1.8	0.3229	0.7	0.40	1804.0	11.3	1827.4	15.1	1854.2	29.5	1854	29.5	97
Spot 42	169	282412	1.6	8.7118	1.8	5.3868	1.9	0.3404	0.5	0.26	1888.4	7.8	1882.8	16.0	1876.5	32.6	1877	32.6	101
Spot 44	216	237016	2.5	8.7075	1.0	5.5156	1.1	0.3483	0.3	0.32	1926.6	5.7	1903.0	9.3	1877.4	18.5	1877	18.5	103
Spot 71	239	298157	0.8	8.4580	0.6	5.7709	0.7	0.3540	0.4	0.55	1953.7	6.2	1942.0	5.8	1929.6	10.0	1930	10.0	101
Spot 79	51	193694	1.0	8.4434	2.4	5.7541	2.7	0.3524	1.0	0.39	1945.9	17.6	1939.5	23.0	1932.7	43.8	1933	43.8	101
Spot 7	122	121735	1.4	8.0345	0.3	6.3140	0.6	0.3679	0.5	0.83	2019.6	8.4	2020.4	5.1	2021.2	5.8	2021	5.8	100
Spot 65	28	59123	1.0	7.9217	6.1	6.7843	6.2	0.3898	1.1	0.19	2121.8	20.8	2083.7	55.0	2046.2	107.9	2046	107.9	104
Spot 45	183	191481	1.9	7.6658	1.1	7.0575	1.2	0.3924	0.5	0.41	2133.9	9.3	2118.7	11.0	2104.0	19.8	2104	19.8	101
Spot 34	211	289527	11.5	5.8440	0.2	11.0021	1.3	0.4663	1.2	0.99	2467.4	25.5	2523.3	11.8	2568.6	3.6	2569	3.6	96
Spot 50	153	108319	1.3	5.7737	0.7	10.5207	1.7	0.4406	1.6	0.92	2353.1	30.6	2481.7	15.7	2588.8	11.3	2589	11.3	91
Spot 6	44	124616	1.6	5.3710	0.7	13.6399	0.8	0.5313	0.5	0.56	2747.1	10.2	2725.0	7.7	2708.7	11.1	2709	11.1	101
Spot 81	38	54678	1.6	4.6625	1.4	13.7435	8.0	0.4647	7.8	0.99	2460.5	160.3	2732.2	75.4	2939.7	22.1	2940	22.1	84

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Spot 60	326	14134	1.4	47.6249	113.1	0.0145	113.3	0.0050	6.6	0.06	32.2	2.1	14.6	16.4	NA	NA	32.2	2.1	NA
Spot 90	277	19293	1.3	26.1149	72.6	0.0271	72.8	0.0051	5.5	0.08	33.0	1.8	27.2	19.5	-464.9	2214.7	33.0	1.8	NA
Spot 62	301	21077	2.2	28.1506	99.0	0.0253	99.1	0.0052	3.1	0.03	33.2	1.0	25.3	24.8	-667.5	NA	33.2	1.0	NA
Spot 89	139	3111	1.5	15.2951	137.8	0.0467	137.9	0.0052	5.0	0.04	33.3	1.7	46.4	62.6	786.6	718.1	33.3	1.7	NA
Spot 13	1051	17170	1.6	21.4994	15.0	0.0334	15.0	0.0052	1.3	0.08	33.5	0.4	33.4	4.9	24.3	361.2	33.5	0.4	NA
Spot 66	212	6879	1.7	26.8001	44.9	0.0268	45.1	0.0052	4.1	0.09	33.5	1.4	26.9	12.0	-533.9	1258.7	33.5	1.4	NA
Spot 36	263	15373	2.2	14.1509	122.6	0.0508	122.6	0.0052	1.9	0.02	33.5	0.6	50.3	60.3	947.8	494.2	33.5	0.6	NA
Spot 111	331	9204	1.9	28.6254	59.6	0.0252	59.6	0.0052	2.6	0.04	33.6	0.9	25.2	14.9	-713.9	1802.9	33.6	0.9	NA
Spot 88	290	11862	1.7	15.9952	24.4	0.0453	24.4	0.0053	2.1	0.09	33.8	0.7	44.9	10.7	691.9	526.6	33.8	0.7	NA
Spot 14	238	9022	2.2	14.2382	106.7	0.0510	106.8	0.0053	4.8	0.04	33.9	1.6	50.5	52.7	935.2	396.1	33.9	1.6	NA
Spot 80	253	10372	1.7	24.8023	51.4	0.0293	51.7	0.0053	5.9	0.11	33.9	2.0	29.3	14.9	-330.5	1403.5	33.9	2.0	NA
Spot 95	208	15057	2.5	8.2421	146.8	0.0888	146.9	0.0053	6.3	0.04	34.1	2.2	86.4	122.2	1975.8	77.7	34.1	2.2	NA
Spot 40	274	16029	0.9	26.0197	34.8	0.0282	35.5	0.0053	7.0	0.20	34.2	2.4	28.2	9.9	-455.3	940.6	34.2	2.4	NA
Spot 19	251	11593	2.1	18.1598	43.8	0.0405	44.2	0.0053	6.1	0.14	34.3	2.1	40.3	17.5	414.9	1025.6	34.3	2.1	NA
Spot 20	219	4680	2.3	19.6518	43.7	0.0374	43.9	0.0053	4.2	0.10	34.3	1.5	37.3	16.1	235.7	1054.0	34.3	1.5	NA
Spot 8	257	5421	1.6	18.0828	29.1	0.0409	29.3	0.0054	3.5	0.12	34.5	1.2	40.7	11.7	424.4	662.8	34.5	1.2	NA
Spot 12	733	44823	3.2	23.9240	17.0	0.0311	17.0	0.0054	1.4	0.08	34.6	0.5	31.1	5.2	-238.6	430.6	34.6	0.5	NA
Spot 96	562	3981	0.7	16.6858	31.5	0.0449	31.7	0.0054	3.8	0.12	34.9	1.3	44.6	13.8	601.1	698.1	34.9	1.3	NA
Spot 38	153	7462	2.3	16.2041	57.3	0.0462	57.5	0.0054	3.9	0.07	34.9	1.4	45.9	25.8	664.2	1343.0	34.9	1.4	NA
Spot 104	198	13846	2.0	9.6748	172.0	0.0775	172.0	0.0054	4.8	0.03	34.9	1.7	75.7	126.2	1685.3	242.4	34.9	1.7	NA
Spot 81	486	20761	1.6	21.1561	18.4	0.0354	18.7	0.0054	3.3	0.18	35.0	1.1	35.4	6.5	62.7	440.9	35.0	1.1	NA
Spot 15	398	20703	2.0	24.6797	20.0	0.0304	20.2	0.0054	2.2	0.11	35.0	0.8	30.4	6.0	-317.8	518.0	35.0	0.8	NA
Spot 24	274	23250	1.6	18.8330	38.3	0.0399	38.6	0.0054	4.7	0.12	35.0	1.6	39.7	15.0	333.0	899.3	35.0	1.6	NA
Spot 100	220	8400	1.7	26.2146	62.1	0.0291	62.8	0.0055	9.3	0.15	35.6	3.3	29.1	18.0	-475.0	1808.1	35.6	3.3	NA
Spot 93	130	5360	0.9	9.9583	99.5	0.0773	99.8	0.0056	7.1	0.07	35.9	2.5	75.6	72.8	1631.8	NA	35.9	2.5	NA
Spot 6	144	6678	0.9	19.5767	40.3	0.0396	40.5	0.0056	3.9	0.10	36.2	1.4	39.5	15.7	244.5	964.1	36.2	1.4	NA
Spot 110	257	14921	2.8	40.6942	70.2	0.0191	70.5	0.0056	5.4	0.08	36.3	1.9	19.2	13.4	NA	NA	36.3	1.9	NA
Spot 94	211	12073	0.5	25.7303	43.6	0.0306	43.9	0.0057	5.7	0.13	36.7	2.1	30.6	13.2	-425.8	1190.4	36.7	2.1	NA
Spot 107	115	6145	1.3	22.1319	70.6	0.0357	71.0	0.0057	7.5	0.11	36.9	2.8	35.6	24.9	-45.7	1972.7	36.9	2.8	NA
Spot 99	67	3131	0.6	-0.7035	832.4	-1.1251	832.5	0.0057	9.4	0.01	36.9	3.4	NA	NA	NA	NA	36.9	3.4	NA
Spot 33	104	13252	1.2	17.9993	29.0	0.1058	29.1	0.0138	2.3	0.08	88.4	2.0	102.1	28.3	434.7	659.2	88.4	2.0	NA
Spot 115	263	25079	2.0	20.3265	10.5	0.0953	10.6	0.0140	1.5	0.14	89.9	1.3	92.4	9.4	157.2	246.2	89.9	1.3	NA
Spot 49	455	52897	3.5	22.1285	9.6	0.0883	9.7	0.0142	1.6	0.16	90.7	1.4	85.9	8.0	-45.3	233.2	90.7	1.4	NA
Spot 119	147	16258	0.6	18.8710	10.4	0.1181	12.7	0.0162	7.3	0.58	103.4	7.5	113.3	13.6	328.4	235.8	103	7.5	NA
Spot 73	371	61081	2.1	21.0804	18.0	0.1124	18.0	0.0172	1.2	0.07	109.8	1.4	108.1	18.5	71.3	430.5	110	1.4	NA
Spot 75	498	34231	0.7	20.4789	7.8	0.1485	9.0	0.0221	4.4	0.49	140.6	6.1	140.6	11.8	139.7	183.7	141	6.1	NA
Spot 87	212	16507	2.6	21.4511	11.7	0.1425	12.7	0.0222	4.8	0.38	141.3	6.7	135.2	16.0	29.7	281.8	141	6.7	NA
Spot 70	93	6793	1.0	17.3175	29.4	0.1955	31.0	0.0246	9.8	0.32	156.4	15.1	181.3	51.5	520.1	658.8	156	15.1	NA
Spot 10	333	61452	1.6	21.0390	6.2	0.1638	6.2	0.0250	0.6	0.10	159.2	1.0	154.0	8.9	76.0	146.7	159	1.0	NA
Spot 108	228	31700	1.2	20.3530	9.0	0.1700	9.0	0.0251	1.1	0.12	159.7	1.7	159.4	13.3	154.2	210.2	160	1.7	NA
Spot 5	303	60404	0.6	20.6656	10.4	0.1677	10.5	0.0251	1.0	0.09	160.0	1.5	157.4	15.3	118.4	246.1	160	1.5	NA
Spot 79	266	50832	0.7	20.4215	4.2	0.1697	4.3	0.0251	1.1	0.26	160.0	1.8	159.1	6.4	146.3	98.3	160	1.8	NA
Spot 105	174	41150	1.6	19.4122	12.8	0.1788	12.9	0.0252	1.4	0.11	160.3	2.3	167.0	19.9	263.9	295.4	160	2.3	NA
Spot 9	170	35854	0.7	20.7026	8.1	0.1679	8.3	0.0252	1.6	0.19	160.5	2.5	157.6	12.0	114.1	191.4	160	2.5	NA

Spot 69	233	37987	0.8	20.7779	11.2	0.1675	11.2	0.0252	0.8	0.07	160.7	1.2	157.2	16.3	105.5	264.9	161	1.2	NA
Spot 1	143	23716	1.0	21.1939	13.7	0.1643	13.7	0.0253	1.1	0.08	160.8	1.7	154.5	19.7	58.5	327.7	161	1.7	NA
Spot 28	360	57535	0.8	20.6434	3.5	0.1689	3.6	0.0253	0.7	0.19	161.0	1.1	158.5	5.2	120.9	82.5	161	1.1	NA
Spot 72	1426	394839	1.6	20.1305	1.1	0.1734	1.2	0.0253	0.4	0.35	161.2	0.6	162.4	1.7	179.8	25.1	161	0.6	NA
Spot 92	180	38590	0.8	19.3543	5.8	0.1804	6.1	0.0253	1.8	0.30	161.2	2.9	168.4	9.5	270.7	133.8	161	2.9	NA
Spot 44	480	36913	1.8	20.0803	6.6	0.1749	6.6	0.0255	0.6	0.10	162.1	1.0	163.6	10.0	185.6	152.8	162	1.0	NA
Spot 22	480	157483	1.1	19.9354	2.5	0.1772	2.8	0.0256	1.3	0.45	163.1	2.0	165.7	4.3	202.5	57.8	163	2.0	NA
Spot 113	120	16437	0.9	19.1572	13.8	0.1846	14.4	0.0257	4.1	0.29	163.3	6.7	172.0	22.8	294.2	316.3	163	6.7	NA
Spot 41	384	9263	0.9	18.8580	9.0	0.1877	9.1	0.0257	1.5	0.17	163.4	2.5	174.7	14.7	330.0	204.8	163	2.5	NA
Spot 65	258	34354	1.1	20.5192	7.6	0.1730	7.6	0.0258	1.0	0.13	163.9	1.6	162.1	11.4	135.1	177.9	164	1.6	NA
Spot 56	330	92270	1.0	20.0470	7.6	0.1772	7.7	0.0258	1.4	0.18	164.0	2.2	165.7	11.8	189.5	177.5	164	2.2	NA
Spot 46	361	35844	1.0	20.7183	4.8	0.1715	5.2	0.0258	1.9	0.37	164.0	3.1	160.7	7.7	112.4	114.3	164	3.1	NA
Spot 55	200	42090	1.4	20.9119	13.8	0.1700	13.8	0.0258	1.0	0.07	164.1	1.6	159.4	20.4	90.3	328.6	164	1.6	NA
Spot 82	278	43071	1.9	20.7941	11.1	0.1719	11.2	0.0259	1.1	0.10	165.0	1.9	161.1	16.7	103.8	263.5	165	1.9	NA
Spot 116	176	36729	0.9	18.7554	15.1	0.1906	15.2	0.0259	1.8	0.12	165.0	2.9	177.1	24.7	342.4	343.4	165	2.9	NA
Spot 53	343	50630	3.4	20.0303	3.2	0.1791	3.9	0.0260	2.2	0.57	165.6	3.6	167.3	5.9	191.5	73.7	166	3.6	NA
Spot 83	86	4826	1.1	18.3969	41.8	0.1952	42.0	0.0260	3.9	0.09	165.7	6.4	181.0	69.7	385.8	978.4	166	6.4	NA
Spot 71	64	14685	0.7	19.2445	28.8	0.1867	29.3	0.0261	5.1	0.17	165.8	8.3	173.8	46.8	283.8	671.7	166	8.3	NA
Spot 27	230	30370	1.2	21.1953	12.0	0.1702	12.0	0.0262	1.2	0.10	166.5	2.0	159.6	17.8	58.4	286.4	166	2.0	NA
Spot 64	142	3363	0.8	16.9451	19.9	0.2133	21.5	0.0262	8.1	0.38	166.8	13.3	196.3	38.4	567.6	438.2	167	13.3	NA
Spot 61	134	18563	0.7	20.6379	15.9	0.1764	16.2	0.0264	3.4	0.21	168.0	5.7	164.9	24.7	121.5	375.5	168	5.7	NA
Spot 117	288	9178	1.3	19.4891	10.5	0.1869	10.6	0.0264	0.5	0.05	168.1	0.8	174.0	16.9	254.8	242.9	168	0.8	NA
Spot 7	252	31074	0.7	19.7037	6.8	0.1864	6.9	0.0266	1.3	0.18	169.4	2.1	173.5	11.1	229.6	157.8	169	2.1	NA
Spot 2	91	13088	0.5	20.8338	17.9	0.1790	18.3	0.0270	3.7	0.20	172.0	6.3	167.2	28.1	99.2	425.7	172	6.3	NA
Spot 47	172	37146	1.3	19.3202	14.5	0.1931	14.6	0.0271	1.0	0.07	172.1	1.7	179.3	24.0	274.8	334.6	172	1.7	NA
Spot 48	151	46171	1.1	19.3655	8.4	0.1951	9.0	0.0274	3.3	0.37	174.3	5.7	181.0	14.9	269.4	192.2	174	5.7	NA
Spot 51	168	30201	1.4	21.4762	20.4	0.1774	20.5	0.0276	1.9	0.09	175.7	3.2	165.8	31.4	26.9	494.7	176	3.2	NA
Spot 77	204	46751	1.5	20.3871	16.6	0.1870	16.6	0.0277	0.5	0.03	175.9	0.9	174.1	26.6	150.3	391.7	176	0.9	NA
Spot 86	44	8734	2.0	17.4438	37.8	0.2189	38.2	0.0277	5.8	0.15	176.1	10.1	201.0	69.8	504.1	860.0	176	10.1	NA
Spot 84	188	56084	1.0	19.7630	9.2	0.1934	9.3	0.0277	1.2	0.13	176.2	2.1	179.5	15.3	222.6	213.2	176	2.1	NA
Spot 120	103	26571	1.3	21.5792	26.9	0.1784	26.9	0.0279	2.1	0.08	177.5	3.7	166.7	41.4	15.4	655.6	178	3.7	NA
Spot 37	179	95256	1.6	19.5892	11.2	0.1977	11.3	0.0281	1.1	0.10	178.6	1.9	183.2	18.9	243.0	259.8	179	1.9	NA
Spot 109	1396	12084	2.3	19.3932	1.6	0.2235	1.8	0.0314	0.9	0.49	199.6	1.7	204.8	3.3	266.1	35.6	200	1.7	NA
Spot 39	824	12654	1.7	18.9848	3.8	0.2356	5.1	0.0324	3.5	0.67	205.8	7.0	214.8	10.0	314.8	86.6	206	7.0	NA
Spot 63	873	145588	0.9	19.8899	2.4	0.2303	2.7	0.0332	1.2	0.44	210.7	2.4	210.4	5.1	207.8	56.3	211	2.4	NA
Spot 85	132	27253	1.5	19.4955	10.7	0.2362	10.8	0.0334	0.8	0.08	211.8	1.7	215.3	20.9	254.1	247.8	212	1.7	NA
Spot 106	812	264824	1.4	20.0003	2.3	0.2319	2.5	0.0336	0.9	0.35	213.3	1.8	211.8	4.7	195.0	54.1	213	1.8	NA
Spot 30	761	248344	2.1	19.8340	1.0	0.2346	1.2	0.0337	0.6	0.53	214.0	1.3	214.0	2.3	214.4	23.5	214	1.3	NA
Spot 42	1027	322964	2.1	19.7476	1.9	0.2363	2.7	0.0338	1.9	0.70	214.5	4.0	215.4	5.3	224.4	44.9	215	4.0	NA
Spot 23	532	48126	2.2	20.0551	3.2	0.2350	3.3	0.0342	0.8	0.24	216.7	1.7	214.3	6.4	188.6	75.4	217	1.7	NA
Spot 45	542	27117	2.3	19.0393	5.5	0.2484	5.9	0.0343	1.9	0.33	217.4	4.1	225.2	11.8	308.2	126.1	217	4.1	NA
Spot 58	601	27028	2.2	19.2026	3.1	0.2477	3.2	0.0345	0.8	0.26	218.6	1.8	224.7	6.5	288.8	71.5	219	1.8	NA
Spot 16	1058	266369	2.0	19.6208	1.0	0.2469	1.2	0.0351	0.6	0.53	222.6	1.4	224.1	2.4	239.3	23.0	223	1.4	NA
Spot 21	595	43084	1.7	19.5770	2.7	0.2483	8.5	0.0353	8.0	0.95	223.4	17.7	225.2	17.1	244.5	61.1	223	17.7	NA
Spot 118	404	170169	5.5	19.9588	4.2	0.2467	4.6	0.0357	2.0	0.42	226.2	4.4	223.9	9.3	199.8	97.0	226	4.4	NA
Spot 4	181	2441	1.9	17.1631	9.8	0.2878	10.0	0.0358	2.2	0.22	226.9	5.0	256.8	22.7	539.7	213.8	227	5.0	NA
Spot 57	124	36083	2.4	13.4468	4.0	0.9149	7.3	0.0892	6.1	0.83	550.9	32.1	659.6	35.3	1051.5	81.0	551	32.1	52
Spot 35	189	141601	2.2	13.7120	1.1	1.7345	1.1	0.1725	0.3	0.27	1025.8	2.9	1021.4	7.3	1012.0	22.1	1012	22.1	101
Spot 91	62	115144	2.0	13.3835	3.0	1.8821	3.3	0.1827	1.2	0.36	1081.7	11.5	1074.8	21.6	1061.0	61.4	1061	61.4	102
Spot 102	105	201576	1.4	13.3561	2.6	1.8772	2.7	0.1818	0.7	0.25	1077.0	6.6	1073.1	17.8	1065.1	52.4	1065	52.4	101
Spot 26	65	59951	1.5	13.2658	2.5	1.9200	2.6	0.1847	0.9	0.34	1092.8	9.0	1088.1	17.7	1078.7	50.0	1079	50.0	101
Spot 11	48	65300	1.4	13.1662	2.8	1.8834	2.9	0.1798	0.8	0.27	1066.1	7.5	1075.3	18.9	1093.8	55.1	1094	55.1	97
Spot 50	90	212726	1.9	13.1560	2.2	1.9299	2.2	0.1841	0.4	0.16	1089.6	3.7	1091.5	14.8	1095.4	43.8	1095	43.8	99
Spot 3	80	116637	1.0	13.1127	1.9	1.9767	1.9	0.1880	0.4	0.23	1110.5	4.4	1107.6	12.9	1102.0	37.1	1102	37.1	101
Spot 67	110	18770	1.9	13.0478	3.1	1.9350	8.1	0.1831	7.4	0.92	1084.0	74.3	1093.3	54.1	1111.9	62.7	1112	62.7	97
Spot 101	116	197431	2.4	12.7194	1.9	2.1659	2.0	0.1998	0.7	0.36	1174.3	7.8	1170.2	14.1	1162.6	37.6	1163	37.6	101
Spot 112	35	61132	2.4	12.7135	8.4	1.9909	8.5	0.1836	1.6	0.19	1086.5	15.8	1112.4	57.7	1163.5	166.4	1163	166.4	93
Spot 32	179	61052	1.2	11.0697	1.1	2.7860	4.6	0.2237	4.5	0.97	1301.3	52.8	1351.8	34.5	1432.6	21.1	1433	21.1	91
Spot 59	185	101066	1.2	8.8943	1.0	4.0473	1.4	0.2904	1.0	0.71	1643.7	14.4	1643.8	11.4	1643.8	18.3	1644	18.3	100
Spot 17	158	552128	1.4	8.8405	0.5	4.4404	4.5	0.2847	4.5	0.99	1615.0	63.8	1719.9	37.3	1850.1	9.5	1850	9.5	87
Spot 43	72	204235	1.2	8.5263	0.9	5.6453	1.1	0.3491	0.6	0.54	1930.3	9.5	1923.0	9.1	1915.2	15.9	1915	15.9	101
Spot 114	429	129724	1.1	6.0675	0.2	9.9972	2.6	0.4399	2.6	1.00	2350.3	51.3	2434.5	24.1	2505.6	2.7	2506	2.7	94
Spot 31	62	349247	0.7	5.3615	0.5	13.6576	0.8	0.5311	0.7	0.81	2746.0	15.4	2726.3	8.0	2711.7	8.2	2712	8.2	101

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Spot 91	436	13568	1.0	20.6608	5.4	0.0866	5.7	0.0130	1.7	0.30	83.1	1.4	84.3	4.6	118.9	128.5	83.1	1.4	NA
Spot 15	291	10773	1.1	21.5972	3.8	0.0829	4.3	0.0130	1.9	0.44	83.2	1.5	80.9	3.3	13.4	92.5	83.2	1.5	NA
Spot 62	755	38280	1.1	21.4832	2.7	0.0838	3.2	0.0130	1.6	0.49	83.6	1.3	81.7	2.5	26.1	65.8	83.6	1.3	NA
Spot 94	295	19802	1.8	21.0799	12.8	0.0876	12.9	0.0134	1.3	0.10	85.7	1.1	85.2	10.5	71.3	306.0	85.7	1.1	NA
Spot 53	324	23919	1.5	21.2408	5.3	0.0881	5.5	0.0136	1.3	0.23	86.9	1.1	85.8	4.5	53.2	126.8	86.9	1.1	NA
Spot 97	186	1905	1.7	17.8015	13.5	0.1058	14.0	0.0137	3.7	0.26	87.5	3.2	102.1	13.6	459.3	301.6	87.5	3.2	NA
Spot 29	93	3125	0.7	26.0195	23.2	0.0737	23.5	0.0139	3.9	0.17	89.0	3.4	72.2	16.4	-455.3	617.6	89.0	3.4	NA
Spot 11	254	12676	2.0	20.3997	5.5	0.1013	6.2	0.0150	3.0	0.48	95.9	2.8	97.9	5.8	148.8	128.5	95.9	2.8	NA
Spot 40	332	6138	1.6	20.5255	6.1	0.1026	6.4	0.0153	2.0	0.31	97.8	2.0	99.2	6.0	134.4	142.6	97.8	2.0	NA
Spot 65	711	54500	1.4	20.9775	2.8	0.1039	2.9	0.0158	0.5	0.18	101.1	0.5	100.4	2.8	82.9	67.6	101	0.5	NA
Spot 14	591	53801	1.5	21.3391	1.6	0.1032	1.8	0.0160	0.9	0.49	102.2	0.9	99.8	1.7	42.2	37.7	102	0.9	NA
Spot 80	784	51551	2.0	20.5690	1.9	0.1200	2.1	0.0179	0.7	0.35	114.4	0.8	115.1	2.2	129.4	45.3	114	0.8	NA
Spot 21	845	72947	1.6	20.7286	2.6	0.1201	4.0	0.0181	3.0	0.74	115.3	3.4	115.2	4.3	111.2	62.5	115	3.4	NA
Spot 20	412	44385	1.7	20.3657	2.2	0.1376	6.1	0.0203	5.7	0.93	129.7	7.3	130.9	7.5	152.7	51.6	130	7.3	NA
Spot 85	260	36492	1.7	20.1736	5.4	0.1610	5.4	0.0236	0.8	0.15	150.1	1.2	151.6	7.6	174.8	125.1	150	1.2	NA
Spot 41	384	33472	1.0	20.1658	3.5	0.1659	3.7	0.0243	1.1	0.31	154.5	1.8	155.8	5.3	175.7	81.0	155	1.8	NA
Spot 90	204	3673	1.1	18.8524	9.8	0.1836	9.9	0.0251	1.6	0.16	159.8	2.5	171.1	15.6	330.7	222.3	160	2.5	NA
Spot 76	124	15256	0.8	20.5964	6.2	0.1683	6.4	0.0251	1.6	0.25	160.0	2.5	157.9	9.3	126.3	145.5	160	2.5	NA
Spot 82	82	10878	0.8	21.6361	13.3	0.1611	13.6	0.0253	2.6	0.19	160.9	4.1	151.6	19.1	9.1	322.3	161	4.1	NA
Spot 10	622	46322	0.4	20.2031	1.5	0.1727	2.1	0.0253	1.4	0.69	161.1	2.3	161.8	3.1	171.4	34.6	161	2.3	NA
Spot 34	478	83515	1.6	20.0663	2.1	0.1745	2.8	0.0254	1.8	0.66	161.7	2.9	163.3	4.2	187.3	48.9	162	2.9	NA
Spot 60	590	78303	1.0	19.8389	1.8	0.1765	1.9	0.0254	0.6	0.30	161.7	0.9	165.0	2.8	213.8	41.1	162	0.9	NA
Spot 63	389	29146	3.8	20.5776	2.9	0.1707	3.0	0.0255	0.8	0.25	162.1	1.2	160.0	4.5	128.4	69.4	162	1.2	NA
Spot 98	102	6099	0.7	19.4494	28.2	0.1812	28.3	0.0256	1.9	0.07	162.7	3.0	169.1	44.1	259.5	660.0	163	3.0	NA
Spot 36	297	38605	1.4	20.5126	2.5	0.1720	2.7	0.0256	1.1	0.39	162.9	1.7	161.2	4.0	135.8	58.2	163	1.7	NA
Spot 4	780	53329	1.8	20.3641	1.2	0.1734	1.3	0.0256	0.4	0.31	163.0	0.6	162.3	2.0	152.9	29.1	163	0.6	NA
Spot 81	199	19201	1.2	20.9493	4.4	0.1694	4.6	0.0257	1.1	0.24	163.8	1.8	158.9	6.7	86.1	105.4	164	1.8	NA
Spot 68	116	13358	1.2	21.5158	7.0	0.1651	7.3	0.0258	1.8	0.25	164.0	3.0	155.2	10.5	22.4	169.3	164	3.0	NA
Spot 24	302	27080	1.3	20.5147	5.1	0.1739	5.2	0.0259	0.9	0.16	164.7	1.4	162.8	7.8	135.6	120.2	165	1.4	NA
Spot 22	326	26526	1.5	20.4274	2.6	0.1751	2.8	0.0259	1.1	0.37	165.1	1.7	163.9	4.3	145.6	61.7	165	1.7	NA

Spot 92	118	13884	1.3	21.4233	12.5	0.1675	12.7	0.0260	2.0	0.16	165.6	3.2	157.2	18.5	32.8	301.4	166	3.2	NA
Spot 70	350	31928	1.2	20.5932	2.3	0.1743	2.6	0.0260	1.3	0.50	165.7	2.1	163.1	3.9	126.7	53.2	166	2.1	NA
Spot 74	531	50131	1.4	20.4487	1.7	0.1756	1.9	0.0260	0.9	0.49	165.7	1.5	164.3	2.9	143.2	39.7	166	1.5	NA
Spot 103	593	37217	1.4	20.2194	10.0	0.1783	10.0	0.0262	0.7	0.07	166.4	1.2	166.6	15.4	169.5	233.2	166	1.2	NA
Spot 49	365	96920	1.7	20.3288	2.7	0.1775	2.8	0.0262	0.7	0.25	166.5	1.2	165.9	4.2	156.9	62.3	167	1.2	NA
Spot 42	607	153405	1.0	20.2327	1.5	0.1791	4.6	0.0263	4.4	0.94	167.3	7.2	167.3	7.1	168.0	35.2	167	7.2	NA
Spot 107	415	30491	0.5	20.3531	7.6	0.1786	7.7	0.0264	1.3	0.17	167.7	2.2	166.8	11.9	154.1	178.5	168	2.2	NA
Spot 55	211	32935	0.7	20.2726	5.8	0.1794	6.1	0.0264	2.1	0.34	167.9	3.5	167.6	9.5	163.4	134.9	168	3.5	NA
Spot 57	159	6966	0.8	20.4104	5.8	0.1794	6.1	0.0266	2.0	0.32	169.0	3.3	167.6	9.5	147.6	136.5	169	3.3	NA
Spot 78	356	49877	1.3	20.0620	2.5	0.1827	2.9	0.0266	1.5	0.51	169.1	2.5	170.4	4.6	187.8	58.4	169	2.5	NA
Spot 93	184	24995	1.1	21.5108	7.1	0.1715	7.3	0.0268	1.9	0.26	170.2	3.2	160.7	10.9	23.0	169.6	170	3.2	NA
Spot 28	285	58817	1.5	20.1294	2.0	0.1843	3.2	0.0269	2.4	0.76	171.2	4.1	171.8	5.0	180.0	47.8	171	4.1	NA
Spot 35	220	24184	1.0	19.5426	5.8	0.1908	5.9	0.0270	0.9	0.15	172.0	1.5	177.3	9.5	248.5	133.6	172	1.5	NA
Spot 73	239	27139	0.6	21.2099	4.3	0.1761	4.6	0.0271	1.6	0.36	172.3	2.8	164.7	7.0	56.7	103.0	172	2.8	NA
Spot 19	1201	61823	0.7	20.0814	0.7	0.1875	1.3	0.0273	1.1	0.84	173.7	1.9	174.5	2.1	185.5	16.1	174	1.9	NA
Spot 108	207	23782	1.0	21.1167	12.8	0.1810	12.8	0.0277	1.0	0.08	176.2	1.7	168.9	20.0	67.2	305.7	176	1.7	NA
Spot 26	67	7920	1.2	20.6411	7.7	0.1864	8.1	0.0279	2.4	0.30	177.4	4.3	173.6	13.0	121.1	182.8	177	4.3	NA
Spot 33	214	30342	1.4	19.6682	3.1	0.1973	3.6	0.0281	1.7	0.48	178.9	3.1	182.9	6.0	233.8	72.6	179	3.1	NA
Spot 8	211	2219	1.1	19.1177	7.9	0.2037	8.1	0.0282	1.7	0.21	179.5	3.0	188.2	13.9	298.9	181.2	180	3.0	NA
Spot 54	59	5475	1.0	20.5529	14.9	0.1966	15.3	0.0293	3.3	0.21	186.2	6.0	182.2	25.5	131.2	352.9	186	6.0	NA
Spot 5	815	94506	1.3	19.8261	0.7	0.2294	1.0	0.0330	0.6	0.65	209.2	1.3	209.7	1.9	215.3	17.3	209	1.3	NA
Spot 48	954	11457	1.9	19.6954	1.4	0.2354	1.8	0.0336	1.2	0.64	213.2	2.5	214.6	3.5	230.5	32.3	213	2.5	NA
Spot 47	632	78537	2.2	19.7863	1.3	0.2360	1.8	0.0339	1.3	0.72	214.7	2.8	215.2	3.5	219.9	29.3	215	2.8	NA
Spot 100	441	99023	1.9	19.0326	6.0	0.2459	6.0	0.0339	0.8	0.14	215.2	1.7	223.2	12.1	309.1	136.6	215	1.7	NA
Spot 38	1200	158995	1.6	19.7546	0.6	0.2374	0.7	0.0340	0.5	0.63	215.6	1.0	216.3	1.4	223.6	13.1	216	1.0	NA
Spot 43	346	37098	2.5	19.8851	2.6	0.2385	2.8	0.0344	0.9	0.34	218.0	2.0	217.2	5.4	208.4	60.7	218	2.0	NA
Spot 87	1235	75534	1.9	19.1109	3.3	0.2482	9.0	0.0344	8.4	0.93	218.1	18.0	225.1	18.2	299.7	74.5	218	18.0	NA
Spot 64	368	140607	2.7	19.7050	2.1	0.2440	2.2	0.0349	0.8	0.37	220.9	1.8	221.7	4.5	229.4	48.2	221	1.8	NA
Spot 39	432	73991	1.6	19.7511	1.5	0.2442	2.3	0.0350	1.7	0.73	221.6	3.6	221.9	4.5	224.0	35.7	222	3.6	NA
Spot 30	885	15827	2.9	19.4606	1.9	0.2496	3.0	0.0352	2.3	0.77	223.2	5.0	226.2	6.0	258.2	43.8	223	5.0	NA
Spot 27	864	363929	2.3	19.6135	0.5	0.2521	0.6	0.0359	0.4	0.67	227.1	0.9	228.2	1.3	240.2	10.9	227	0.9	NA
Spot 104	534	68295	2.2	19.9342	5.2	0.2501	5.2	0.0362	0.7	0.13	229.0	1.6	226.7	10.6	202.7	120.0	229	1.6	NA
Spot 59	743	78356	2.1	19.7852	1.3	0.2580	1.5	0.0370	0.8	0.51	234.4	1.8	233.1	3.1	220.0	29.8	234	1.8	NA
Spot 46	245	77144	1.5	18.8381	1.3	0.2940	5.1	0.0402	4.9	0.97	253.9	12.3	261.7	11.8	332.4	29.3	254	12.3	NA
Spot 51	420	50485	2.0	19.4846	1.3	0.2917	2.7	0.0412	2.4	0.88	260.4	6.1	259.9	6.2	255.3	29.8	260	6.1	NA
Spot 7	149	47445	1.5	18.7377	1.5	0.4555	2.6	0.0619	2.1	0.80	387.2	7.7	381.1	8.2	344.5	34.8	387	7.7	NA
Spot 71	97	32219	1.1	18.1300	4.5	0.4914	4.7	0.0646	1.1	0.24	403.6	4.4	405.9	15.6	418.6	101.3	404	4.4	96
Spot 6	36	17293	0.8	13.8399	3.1	1.6733	3.3	0.1680	1.3	0.40	1000.9	12.4	998.4	21.2	993.1	62.1	993	62.1	101
Spot 67	46	19218	1.3	13.7909	2.3	1.6010	2.3	0.1601	0.6	0.24	957.5	5.0	970.6	14.6	1000.3	46.1	1000	46.1	96
Spot 58	643	734145	0.9	13.7349	0.2	1.6934	0.4	0.1687	0.3	0.86	1004.9	2.9	1006.1	2.3	1008.6	3.8	1009	3.8	100
Spot 13	53	42893	1.2	13.6092	2.5	1.7228	2.7	0.1700	1.0	0.36	1012.3	9.1	1017.1	17.1	1027.2	50.1	1027	50.1	99
Spot 12	79	30679	1.0	13.3888	1.1	1.8387	1.8	0.1785	1.4	0.78	1059.0	14.0	1059.4	12.1	1060.2	23.1	1060	23.1	100
Spot 2	115	78379	1.3	13.1977	0.7	1.8661	0.8	0.1786	0.5	0.57	1059.4	4.6	1069.1	5.4	1089.0	13.5	1089	13.5	97
Spot 23	33	21540	1.7	13.1952	2.9	1.9895	3.1	0.1904	0.8	0.27	1123.5	8.6	1111.9	20.6	1089.4	58.9	1089	58.9	103
Spot 84	61	54774	1.9	12.9418	1.0	2.0532	1.1	0.1927	0.5	0.40	1136.1	4.8	1133.4	7.8	1128.2	20.9	1128	20.9	101
Spot 89	374	643087	1.9	12.9382	0.4	2.0440	0.9	0.1918	0.8	0.91	1131.1	8.4	1130.3	6.1	1128.7	7.4	1129	7.4	100
Spot 52	81	83097	2.0	12.9268	1.3	2.0576	1.4	0.1929	0.6	0.46	1137.1	6.8	1134.8	9.7	1130.5	25.2	1130	25.2	101
Spot 9	89	49811	2.0	12.8027	1.6	2.1232	1.8	0.1972	0.9	0.50	1160.0	9.8	1156.4	12.7	1149.6	31.6	1150	31.6	101
Spot 110	286	420655	1.2	12.2332	0.9	2.4497	2.4	0.2173	2.3	0.93	1267.8	26.3	1257.3	17.7	1239.4	17.3	1239	17.3	102
Spot 86	61	58890	1.6	11.1569	1.1	3.0917	1.2	0.2502	0.5	0.39	1439.3	6.1	1430.6	9.3	1417.7	21.5	1418	21.5	102
Spot 83	63	54620	1.5	11.0477	1.1	3.1602	1.3	0.2532	0.7	0.56	1455.0	9.5	1447.5	10.2	1436.4	20.9	1436	20.9	101
Spot 96	38	24007	1.4	11.0399	4.7	3.0356	4.8	0.2431	1.2	0.24	1402.6	14.5	1416.6	36.9	1437.8	89.5	1438	89.5	98
Spot 31	106	35121	2.6	10.9524	0.9	3.1225	1.0	0.2480	0.5	0.51	1428.3	6.8	1438.2	7.9	1452.9	16.8	1453	16.8	98
Spot 56	129	361931	1.3	10.4999	0.5	3.5192	0.7	0.2680	0.5	0.71	1530.6	6.6	1531.5	5.4	1532.8	9.0	1533	9.0	100
Spot 111	66	59225	0.3	9.9990	2.3	3.9190	2.9	0.2842	1.9	0.63	1612.5	26.4	1617.6	23.9	1624.3	42.7	1624	42.7	99
Spot 3	101	20756	2.0	9.8762	0.7	4.0171	1.0	0.2877	0.7	0.70	1630.2	9.8	1637.7	7.9	1647.2	12.9	1647	12.9	99
Spot 101	160	276842	2.7	9.5225	1.0	4.5144	1.1	0.3118	0.6	0.50	1749.4	8.5	1733.6	9.3	1714.6	17.8	1715	17.8	102
Spot 18	146	115525	2.1	9.4916	0.3	4.4536	1.6	0.3066	1.6	0.98	1723.9	23.6	1722.4	13.2	1720.5	5.2	1721	5.2	100
Spot 37	242	352807	1.3	9.3487	0.3	4.6067	0.7	0.3123	0.7	0.93	1752.2	10.2	1750.5	6.0	1748.3	4.9	1748	4.9	100
Spot 109	88	207371	1.9	9.2066	1.1	4.8295	1.4	0.3225	0.8	0.61	1801.8	13.1	1790.1	11.6	1776.4	20.0	1776	20.0	101
Spot 45	213	138476	1.8	9.1732	0.2	4.7548	1.2	0.3163	1.2	0.99	1771.8	19.1	1777.0	10.4	1783.0	3.4	1783	3.4	99
Spot 50	277	153783	0.9	9.1717	0.2	4.8251	2.2	0.3210	2.2	1.00	1794.4	34.8	1789.3	18.7	1783.3	2.8	1783	2.8	101
Spot 44	190	263171	2.9	9.1383	0.2	4.8984	0.4	0.3246	0.3	0.85	1812.4	5.4	1802.0	3.4	1789.9	3.8	1790	3.8	101
Spot 69	284	464155	4.6	8.9536	0.4	4.8217	1.5	0.3131	1.4	0.97	1756.0	22.0	1788.7	12.5	1827.0	7.0	1827	7.0	96
Spot 79	102	144732	0.8	8.9269	0.5	5.0569	0.8	0.3274	0.6	0.77	1825.8	10.0	1828.9	6.9	1832.4	9.3	1832	9.3	100
Spot 17	48	48914	1.4	8.1521	0.8	6.0458	1.1	0.3575	0.8	0.72	1970								

Spot 24	640	8334	2.0	17.7554	2.0	0.1907	2.7	0.0254	0.7	0.25	161.7	1.0	177.2	4.3	389.5	58.1	162	1.0	NA
Spot 35	806	11691	0.5	18.2245	2.1	0.1874	2.3	0.0254	0.5	0.24	161.8	0.9	174.4	3.7	348.6	50.3	162	0.9	NA
Spot 25	602	9843	1.1	18.1578	2.1	0.1877	3.2	0.0255	0.8	0.23	162.1	1.2	174.7	5.1	348.7	70.4	162	1.2	NA
Spot 14	366	4542	1.4	16.0713	2.7	0.2074	3.4	0.0255	0.8	0.23	162.2	1.3	191.4	6.0	568.3	72.7	162	1.3	NA
Spot 60	774	12249	1.7	18.3765	1.5	0.1868	1.9	0.0255	0.5	0.27	162.3	0.8	173.9	3.1	333.9	42.5	162	0.8	NA
Spot 55	254	499	1.6	11.5337	4.0	0.2018	16.1	0.0255	0.6	0.03	162.4	0.9	186.7	27.4	506.5	355.2	162	0.9	NA
Spot 36	987	15328	1.6	19.2130	1.2	0.1792	2.2	0.0255	0.6	0.25	162.4	0.9	167.4	3.4	238.3	49.7	162	0.9	NA
Spot 108	675	9572	1.5	18.3935	1.8	0.1861	2.7	0.0256	0.6	0.22	162.7	0.9	173.3	4.3	320.3	59.5	163	0.9	NA
Spot 103	600	8018	1.6	17.6043	1.9	0.1941	2.1	0.0256	0.5	0.26	162.9	0.9	180.1	3.5	412.0	45.3	163	0.9	NA
Spot 80	544	7365	1.2	17.5106	1.8	0.1946	2.2	0.0256	0.6	0.27	163.0	1.0	180.5	3.7	416.4	47.7	163	1.0	NA
Spot 77	293	3993	1.1	15.8358	3.2	0.2111	4.5	0.0257	0.5	0.10	163.4	0.7	194.5	7.9	590.7	96.9	163	0.7	NA
Spot 85	210	2831	1.8	14.3027	3.2	0.2298	5.5	0.0257	0.6	0.11	163.5	1.0	210.0	10.4	770.8	114.6	163	1.0	NA
Spot 34	250	3584	1.3	13.8944	3.9	0.2401	5.0	0.0257	0.6	0.12	163.6	1.0	218.5	9.8	861.4	102.6	164	1.0	NA
Spot 15	606	10100	1.8	17.9283	1.7	0.1927	3.1	0.0257	0.6	0.20	163.7	1.0	178.9	5.1	385.1	68.4	164	1.0	NA
Spot 98	855	11723	1.8	18.6216	1.5	0.1862	2.0	0.0257	0.8	0.41	163.8	1.3	173.4	3.2	306.2	41.1	164	1.3	NA
Spot 107	924	14346	1.5	19.0584	1.4	0.1827	2.0	0.0258	0.6	0.31	164.0	1.0	170.4	3.1	260.6	43.3	164	1.0	NA
Spot 62	530	8103	1.9	18.3452	1.5	0.1872	2.8	0.0258	0.5	0.18	164.0	0.8	174.2	4.4	314.7	61.9	164	0.8	NA
Spot 39	762	11005	1.9	18.1602	1.5	0.1911	2.6	0.0259	0.6	0.23	164.7	1.0	177.5	4.2	351.5	56.6	165	1.0	NA
Spot 113	184	2873	1.3	15.0327	3.8	0.2194	6.4	0.0259	0.6	0.09	165.0	1.0	201.4	11.8	653.1	137.7	165	1.0	NA
Spot 102	791	3061	1.6	17.1847	1.6	0.1910	6.3	0.0259	0.6	0.09	165.1	0.9	177.4	10.3	345.0	143.2	165	0.9	NA
Spot 57	853	8519	2.2	18.4665	1.8	0.1871	2.5	0.0259	0.8	0.33	165.1	1.3	174.2	4.0	298.7	53.2	165	1.3	NA
Spot 64	777	7683	1.0	18.4474	1.6	0.1872	2.8	0.0260	0.6	0.22	165.4	1.0	174.3	4.5	296.4	62.3	165	1.0	NA
Spot 109	399	6446	0.9	16.4646	2.4	0.2094	4.3	0.0260	0.5	0.12	165.6	0.9	193.1	7.6	544.0	93.9	166	0.9	NA
Spot 118	1410	19169	1.5	19.1971	1.0	0.1840	1.6	0.0260	0.5	0.34	165.7	0.9	171.5	2.5	252.6	34.4	166	0.9	NA
Spot 104	394	5998	1.5	15.7924	2.7	0.2186	4.4	0.0260	0.6	0.13	165.7	0.9	200.7	7.9	635.5	93.1	166	0.9	NA
Spot 1	652	10517	1.5	18.2837	1.5	0.1916	2.0	0.0261	0.5	0.24	165.8	0.8	178.0	3.2	342.9	43.6	166	0.8	NA
Spot 6	1363	21015	2.0	19.5170	0.9	0.1821	1.4	0.0261	0.5	0.32	166.3	0.8	169.9	2.2	220.0	31.3	166	0.8	NA
Spot 90	1004	16963	2.3	19.2127	1.3	0.1850	2.1	0.0262	0.7	0.34	166.6	1.1	172.3	3.3	251.6	44.9	167	1.1	NA
Spot 100	1099	14567	1.0	19.5747	1.2	0.1816	1.9	0.0263	0.5	0.28	167.4	0.9	169.4	2.9	197.3	41.8	167	0.9	NA
Spot 67	913	13624	1.4	18.9135	1.2	0.1885	1.9	0.0264	0.5	0.28	168.1	0.9	175.4	3.0	274.3	41.1	168	0.9	NA
Spot 40	667	2101	1.5	16.4545	2.3	0.1974	8.0	0.0267	0.6	0.07	169.9	1.0	182.9	13.4	354.6	181.2	170	1.0	NA
Spot 37	705	9607	1.2	18.7662	1.4	0.1915	2.7	0.0269	0.7	0.24	171.2	1.1	177.9	4.4	268.3	60.0	171	1.1	NA
Spot 112	1545	22508	0.6	19.3281	0.9	0.1894	1.4	0.0269	0.7	0.48	171.3	1.1	176.1	2.3	241.6	28.4	171	1.1	NA
Spot 84	515	7614	1.8	18.4685	1.6	0.1941	2.0	0.0269	0.5	0.25	171.3	0.8	180.2	3.4	297.6	44.9	171	0.8	NA
Spot 23	350	5920	1.7	16.1386	2.3	0.2214	4.4	0.0270	0.6	0.14	171.9	1.0	203.1	8.2	582.1	95.3	172	1.0	NA
Spot 91	221	3640	1.7	14.9659	3.1	0.2345	3.8	0.0270	0.5	0.12	171.9	0.8	213.9	7.4	705.3	80.7	172	0.8	NA
Spot 59	249	3418	1.2	14.6421	3.2	0.2385	5.0	0.0270	0.6	0.12	172.0	1.0	217.2	9.7	739.9	104.0	172	1.0	NA
Spot 28	300	3713	2.3	16.0258	3.0	0.2179	3.5	0.0271	0.6	0.18	172.4	1.1	200.2	6.3	541.9	74.5	172	1.1	NA
Spot 38	657	10350	1.5	18.0646	1.9	0.2012	2.4	0.0271	0.5	0.22	172.6	0.9	186.1	4.1	361.2	53.2	173	0.9	NA
Spot 48	229	3766	1.9	14.7061	3.7	0.2393	5.2	0.0272	0.7	0.13	172.8	1.2	217.8	10.2	737.4	108.7	173	1.2	NA
Spot 52	580	9459	1.5	18.3164	1.6	0.1982	2.9	0.0272	0.7	0.24	173.0	1.2	183.6	4.9	322.2	63.8	173	1.2	NA
Spot 7	380	6202	1.0	16.4269	2.9	0.2198	3.6	0.0272	0.6	0.16	173.2	1.0	201.7	6.6	549.9	78.1	173	1.0	NA
Spot 95	497	7696	2.0	18.3229	1.8	0.1983	2.1	0.0273	0.6	0.27	173.4	1.0	183.7	3.5	317.2	46.0	173	1.0	NA
Spot 17	839	13042	1.3	18.6679	1.2	0.1974	1.9	0.0273	0.5	0.29	173.6	0.9	182.9	3.2	305.2	41.2	174	0.9	NA
Spot 88	851	12662	1.4	18.2199	1.4	0.2024	1.8	0.0273	0.6	0.34	173.7	1.1	187.2	3.1	360.6	38.3	174	1.1	NA
Spot 82	798	15650	1.3	18.9065	1.3	0.1958	2.2	0.0273	0.6	0.27	173.9	1.0	181.5	3.6	282.6	47.6	174	1.0	NA
Spot 54	385	5779	1.5	16.9108	2.3	0.2131	3.0	0.0274	0.6	0.19	174.2	1.0	196.2	5.4	469.0	65.8	174	1.0	NA
Spot 114	593	9477	1.7	18.4556	1.6	0.1987	2.9	0.0274	0.5	0.18	174.4	0.9	184.0	4.9	310.4	65.3	174	0.9	NA
Spot 12	594	9872	1.2	18.7941	1.6	0.1955	2.4	0.0274	0.6	0.25	174.4	1.0	181.3	3.9	272.4	52.3	174	1.0	NA
Spot 75	123	2464	1.3	12.0066	5.3	0.2939	6.8	0.0274	0.5	0.08	174.4	0.9	261.6	15.7	1139.3	134.9	174	0.9	NA
Spot 120	173	3155	1.4	13.3138	4.5	0.2668	5.2	0.0274	0.5	0.10	174.5	0.9	240.1	11.2	943.5	107.0	175	0.9	NA
Spot 61	238	3867	1.7	15.8770	2.5	0.2237	3.8	0.0274	0.6	0.15	174.6	1.0	205.0	7.1	571.2	82.5	175	1.0	NA
Spot 81	424	6825	1.5	17.6025	1.8	0.2069	2.5	0.0275	0.6	0.23	174.6	1.0	191.0	4.4	397.8	55.2	175	1.0	NA
Spot 93	358	5591	2.2	16.4576	2.6	0.2203	3.1	0.0275	0.6	0.19	174.7	1.0	202.2	5.7	536.4	66.6	175	1.0	NA
Spot 30	1072	17438	1.1	19.0808	1.1	0.1956	1.4	0.0276	0.6	0.40	175.5	1.0	181.4	2.4	258.3	30.1	176	1.0	NA
Spot 96	683	9862	1.8	18.6263	1.4	0.1989	2.4	0.0276	0.5	0.22	175.6	0.9	184.2	4.0	296.8	53.4	176	0.9	NA
Spot 111	236	3104	1.2	15.3186	3.1	0.2305	4.3	0.0276	0.5	0.12	175.6	0.9	210.6	8.2	622.4	92.2	176	0.9	NA
Spot 11	1511	25220	2.1	19.5980	0.9	0.1923	1.4	0.0276	0.5	0.38	175.8	0.9	178.6	2.3	215.7	29.7	176	0.9	NA
Spot 115	813	14522	1.2	18.9215	1.6	0.1973	2.0	0.0276	0.9	0.44	175.8	1.6	182.9	3.4	275.5	41.9	176	1.6	NA
Spot 16	498	8768	1.0	18.3757	1.8	0.2019	3.4	0.0278	0.6	0.17	176.5	1.0	186.7	5.8	318.4	75.8	176	1.0	NA
Spot 76	455	7473	2.5	17.3325	1.9	0.2145	2.6	0.0278	0.5	0.19	177.0	0.9	197.3	4.7	447.2	57.7	177	0.9	NA
Spot 46	256	3979	1.6	14.1731	3.1	0.2566	4.8	0.0279	0.7	0.13	177.6	1.1	232.0	10.0	826.4	100.0	178	1.1	NA
Spot 119	757	13415	1.5	18.9133	1.3	0.1994	1.8	0.0280	0.5	0.27	177.7	0.8	184.6	3.0	273.9	39.1	178	0.8	NA
Spot 97	468	8088	1.6	17.3915	2.0	0.2149	2.4	0.0280	0.5	0.21	177.7	0.9	197.7	4.3	442.7	52.5	178	0.9	NA
Spot 92	874	12439	2.2	18.7097	1.4	0.2021	2.3	0.0280	1.0	0.44	178.1	1.8	186.9	3.9	299.7	47.4	178	1.8	NA
Spot 56	831	13361	1.3	18.8200	1.3	0.2008	2.0	0.0280	0.5	0.23	178.3	0.8	185.8	3.4	281.8	45.1	178	0.8	NA
Spot 101	609	10512	2.6	18.0630	1.6	0.2100	3.0	0.0282	0.7	0.23	179.5	1.3	193.6	5.3					

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Spot 111	147	63	1.0	3.8904	15.0	0.0078	247.9	0.0040	0.5	0.00	25.9	0.1	7.9	19.4	NA	NA	25.9	0.1	NA
Spot 63	99	280	0.8	4.4738	19.3	0.1181	24.0	0.0048	0.5	0.02	30.7	0.1	113.4	25.7	2650.6	403.7	30.7	0.1	NA
Spot 81	797	365	0.5	8.9363	7.8	0.0483	36.4	0.0048	0.5	0.01	31.0	0.2	47.9	17.1	1009.4	763.5	31.0	0.2	NA
Spot 38	362	255	0.5	6.2549	8.1	0.0712	16.5	0.0049	0.7	0.04	31.3	0.2	69.8	11.1	1732.6	304.4	31.3	0.2	NA
Spot 23	138	441	1.0	5.3344	15.0	0.1082	19.2	0.0050	0.5	0.03	31.9	0.2	104.3	19.0	2436.4	328.3	31.9	0.2	NA
Spot 82	284	1004	1.0	8.2566	8.5	0.0758	9.6	0.0051	0.6	0.07	32.8	0.2	74.2	6.9	1759.7	175.6	32.8	0.2	NA
Spot 16	126	395	0.9	4.2475	18.6	0.1456	21.1	0.0052	0.9	0.04	33.1	0.3	138.0	27.3	2866.3	347.6	33.1	0.3	NA
Spot 18	326	394	1.2	7.2262	9.3	0.0734	23.4	0.0052	0.6	0.03	33.1	0.2	71.9	16.2	1683.6	437.9	33.1	0.2	NA
Spot 68	477	500	1.1	9.9040	6.5	0.0518	27.6	0.0052	0.5	0.02	33.3	0.2	51.3	13.8	999.0	572.1	33.3	0.2	NA
Spot 28	462	1516	1.0	10.6225	6.5	0.0608	9.1	0.0052	1.0	0.11	33.5	0.3	59.9	5.3	1305.3	176.5	33.5	0.3	NA
Spot 118	231	763	1.6	5.8402	12.0	0.1116	12.4	0.0052	0.6	0.05	33.7	0.2	107.4	12.6	2395.7	210.8	33.7	0.2	NA
Spot 53	218	635	1.0	7.4772	10.5	0.0816	17.2	0.0053	0.7	0.04	33.9	0.2	79.6	13.2	1837.6	314.4	33.9	0.2	NA
Spot 119	248	716	0.8	8.2017	8.4	0.0746	10.8	0.0053	0.5	0.05	33.9	0.2	73.1	7.6	1670.6	199.2	33.9	0.2	NA
Spot 113	418	1371	0.9	10.6132	7.9	0.0611	9.2	0.0053	0.9	0.10	34.0	0.3	60.2	5.4	1286.9	179.5	34.0	0.3	NA
Spot 21	433	1601	1.4	9.9247	7.4	0.0671	9.7	0.0053	0.7	0.08	34.1	0.3	65.9	6.2	1462.6	184.3	34.1	0.3	NA
Spot 95	194	552	0.5	5.6800	11.3	0.1120	15.5	0.0053	0.5	0.03	34.1	0.2	107.8	15.8	2380.3	265.0	34.1	0.2	NA
Spot 107	335	1062	0.9	9.6556	7.7	0.0662	9.6	0.0053	0.6	0.06	34.2	0.2	65.1	6.0	1433.8	182.8	34.2	0.2	NA
Spot 11	493	1404	0.8	11.1844	6.3	0.0581	7.6	0.0053	0.5	0.06	34.2	0.2	57.3	4.2	1175.3	149.5	34.2	0.2	NA
Spot 71	608	2102	1.5	11.4135	6.5	0.0595	10.6	0.0053	0.7	0.06	34.3	0.2	58.7	6.0	1220.6	207.6	34.3	0.2	NA
Spot 36	522	1600	0.6	11.5412	6.7	0.0571	8.6	0.0053	0.6	0.07	34.3	0.2	56.4	4.7	1134.9	170.4	34.3	0.2	NA
Spot 110	218	682	1.0	5.9046	12.6	0.1109	15.2	0.0053	0.6	0.04	34.4	0.2	106.8	15.4	2351.6	260.5	34.4	0.2	NA
Spot 114	568	1753	0.7	10.9388	5.9	0.0615	7.0	0.0053	0.6	0.09	34.4	0.2	60.6	4.1	1277.5	135.3	34.4	0.2	NA
Spot 24	385	1197	0.7	10.5170	7.1	0.0613	8.1	0.0054	0.6	0.08	34.4	0.2	60.4	4.7	1270.4	157.1	34.4	0.2	NA
Spot 50	375	626	0.8	8.6881	8.3	0.0685	19.8	0.0054	0.5	0.03	34.4	0.2	67.3	12.9	1483.7	379.1	34.4	0.2	NA
Spot 74	693	2184	1.9	11.1066	7.8	0.0618	8.6	0.0054	0.6	0.07	34.4	0.2	60.9	5.1	1285.6	167.9	34.4	0.2	NA
Spot 98	743	2268	0.7	12.9289	4.4	0.0525	5.5	0.0054	0.7	0.13	34.4	0.2	51.9	2.8	959.9	112.5	34.4	0.2	NA
Spot 104	609	1801	0.7	12.2058	5.3	0.0547	9.1	0.0054	0.6	0.07	34.5	0.2	54.0	4.8	1041.0	184.2	34.5	0.2	NA
Spot 44	310	799	0.7	8.4904	11.4	0.0743	13.5	0.0054	0.6	0.04	34.5	0.2	72.7	9.5	1631.0	252.7	34.5	0.2	NA
Spot 70	406	1186	2.7	10.4815	7.1	0.0621	8.9	0.0054	0.7	0.08	34.6	0.2	61.2	5.3	1283.4	172.4	34.6	0.2	NA
Spot 19	371	1307	0.5	10.5402	6.5	0.0623	8.1	0.0054	0.6	0.07	34.6	0.2	61.3	4.8	1288.7	158.4	34.6	0.2	NA
Spot 55	560	1847	1.0	11.3496	6.7	0.0600	8.8	0.0054	0.6	0.07	34.6	0.2	59.1	5.0	1214.4	172.1	34.6	0.2	NA
Spot 48	222	667	0.6	7.2079	12.1	0.0881	13.7	0.0054	0.6	0.04	34.7	0.2	85.7	11.3	1934.6	246.2	34.7	0.2	NA
Spot 41	701	1970	1.3	13.1262	3.7	0.0512	7.2	0.0054	0.5	0.08	34.7	0.2	50.7	3.6	891.7	148.1	34.7	0.2	NA
Spot 96	945	2827	0.6	12.5064	4.5	0.0559	6.2	0.0054	0.5	0.08	34.7	0.2	55.2	3.3	1068.7	123.4	34.7	0.2	NA
Spot 26	347	1124	1.1	10.1601	9.0	0.0639	11.0	0.0054	0.5	0.05	34.8	0.2	62.9	6.7	1330.6	212.3	34.8	0.2	NA
Spot 79	2109	2290	0.4	16.3726	2.1	0.0409	6.3	0.0054	0.5	0.08	34.8	0.2	40.7	2.5	401.9	140.4	34.8	0.2	NA
Spot 120	183	547	1.3	5.3459	15.1	0.1224	18.7	0.0054	0.7	0.04	34.8	0.3	117.2	20.7	2494.5	317.4	34.8	0.3	NA
Spot 33	514	1940	1.6	11.0174	5.1	0.0623	8.9	0.0054	0.6	0.06	34.9	0.2	61.4	5.3	1276.0	172.6	34.9	0.2	NA
Spot 22	716	1996	0.5	12.5296	4.9	0.0542	9.9	0.0054	0.6	0.06	34.9	0.2	53.6	5.1	997.9	200.2	34.9	0.2	NA
Spot 73	323	921	0.6	8.3312	9.1	0.0788	10.1	0.0054	0.5	0.05	34.9	0.2	77.0	7.5	1717.5	185.4	34.9	0.2	NA
Spot 31	1323	4264	0.5	16.9869	3.1	0.0414	4.4	0.0054	0.8	0.19	34.9	0.3	41.2	1.8	423.1	95.8	34.9	0.3	NA
Spot 66	531	1744	0.8	10.2021	6.8	0.0675	8.9	0.0054	0.6	0.07	34.9	0.2	66.3	5.7	1427.6	169.8	34.9	0.2	NA
Spot 87	566	1959	0.9	12.2872	5.1	0.0557	7.6	0.0054	0.5	0.06	35.0	0.2	55.0	4.1	1046.4	153.2	35.0	0.2	NA
Spot 94	339	424	0.9	7.7502	8.4	0.0725	23.8	0.0054	1.1	0.04	35.0	0.4	71.0	16.3	1556.2	453.0	35.0	0.4	NA
Spot 58	894	2614	2.0	14.2573	4.7	0.0488	7.9	0.0055	0.7	0.08	35.1	0.2	48.4	3.8	771.5	166.9	35.1	0.2	NA
Spot 27	1451	4601	1.4	16.5630	2.6	0.0429	4.6	0.0055	0.7	0.15	35.1	0.2	42.7	1.9	492.7	101.2	35.1	0.2	NA
Spot 7	269	698	0.8	6.8063	10.5	0.0961	16.7	0.0055	0.6	0.03	35.1	0.2	93.2	14.9	2065.4	296.4	35.1	0.2	NA
Spot 72	1032	3111	2.1	15.7768	3.5	0.0443	8.6	0.0055	0.4	0.05	35.1	0.2	44.0	3.7	558.2	188.1	35.1	0.2	NA
Spot 109	5894	2070	0.5	18.3187	1.2	0.0358	1.4	0.0055	0.5	0.35	35.1	0.2	35.7	0.5	71.5	31.9	35.1	0.2	NA
Spot 6	515	1915	0.5	11.0212	6.4	0.0628	7.1	0.0055	1.0	0.14	35.2	0.3	61.8	4.2	1273.5	136.5	35.2	0.3	NA
Spot 1	3102	9974	3.4	19.1191	1.4	0.0383	2.1	0.0055	0.6	0.27	35.2	0.2	38.1	0.8	226.6	47.6	35.2	0.2	NA
Spot 37	687	1830	0.4	12.3220	5.6	0.0552	7.5	0.0055	0.5	0.07	35.2	0.2	54.6	4.0	1017.3	152.1	35.2	0.2	NA
Spot 90	1089	3523	0.6	15.9478	2.8	0.0445	7.4	0.0055	0.7	0.09	35.4	0.2	44.2	3.2	553.6	160.2	35.4	0.2	NA
Spot 100	3042	8590	0.4	18.8876	1.6	0.0389	2.4	0.0055	0.6	0.26	35.4	0.2	38.8	0.9	255.5	52.2	35.4	0.2	NA
Spot 39	383	1428	0.7	9.2928	7.7	0.0742	10.3	0.0055	0.6	0.06	35.4	0.2	72.7	7.2	1581.6	192.7	35.4	0.2	NA
Spot 84	6348	10244	1.2	19.5374	1.0	0.0378	1.3	0.0055	0.6	0.45	35.4	0.2	37.7	0.5	185.7	27.6	35.4	0.2	NA
Spot 3	945	2671	0.9	13.4598	3.6	0.0523	4.7	0.0055	0.6	0.13	35.5	0.2	51.7	2.4	891.5	96.4	35.5	0.2	NA
Spot 83	506	1513	1.3	12.7757	4.7	0.0524	10.0	0.0055	0.6	0.06	35.5	0.2	51.9	5.0	895.6	206.0	35.5	0.2	NA
Spot 34	427	1468	1.1	10.6035	5.7	0.0643	12.5	0.0055	0.6	0.05	35.5	0.2	63.3	7.7	1303.2	244.3	35.5	0.2	NA
Spot 59	1284	4534	2.4	15.5995	3.7	0.0466	4.6	0.0055	0.5	0.12	35.5	0.2	46.2	2.1	645.8	99.1	35.5	0.2	NA
Spot 17	641	1907	1.9	12.3639	4.7	0.0558	6.3	0.0055	0.6	0.09	35.5	0.2	55.1	3.4	1019.5	127.9	35.5	0.2	NA
Spot 78	519	1916	0.9	10.5608	6.3	0.0668	8.1	0.0055	0.6	0.07	35.6	0.2	65.6	5.2	1372.0	156.5	35.6	0.2	NA
Spot 112	2573	8503	3.1	18.5145	1.7	0.0398	3.5	0.0055	0.7	0.19	35.6	0.2	39.6	1.4	292.9	79.4	35.6	0.2	NA
Spot 9	1543	4572	1.7	16.1243	3.0	0.0449	3.7	0.0055	0.5	0.15	35.6	0.2	44.6	1.6	556.5	80.6	35.6	0.2	NA
Spot 108	1849	4518	2.8	17.2624	2.6	0.0419	3.0	0.0055	0.6	0.21	35.7	0.2	41.7	1.2	401.2	66.8	35.7	0.2	NA
Spot 80	835	2621	1.1	14.8321	3.7	0.0475	4.8	0.0056	0.6	0.13	35.7	0.2	47.1	2.2	672.6	102.4	35.7	0.2	NA
Spot 91	1380	4159	2.0	15.9525	2.8	0.0454	4.1	0.0056	0.6	0.15	35.7								

Spot 20	283	179	1.2	6.3787	10.5	0.0649	82.0	0.0061	0.6	0.01	39.3	0.2	63.9	50.8	1119.9	NA	39.3	0.2	NA
Spot 54	1449	7345	4.4	18.0413	1.7	0.0539	4.1	0.0073	0.6	0.15	46.9	0.3	53.3	2.1	350.0	90.5	46.9	0.3	NA
Spot 56	458	2310	6.8	11.8455	6.4	0.0881	6.9	0.0081	0.6	0.09	52.2	0.3	85.7	5.7	1160.4	136.1	52.2	0.3	NA
Spot 15	1241	8222	38.9	17.9496	1.8	0.0835	2.6	0.0113	0.7	0.28	72.1	0.5	81.4	2.0	362.4	55.7	72.1	0.5	NA
Spot 69	3254	31500	3.3	20.3488	0.6	0.1159	1.0	0.0173	0.5	0.52	110.3	0.5	111.3	1.0	134.5	19.3	110	0.5	NA
Spot 62	530	6969	1.5	17.5838	1.9	0.1918	3.0	0.0253	0.7	0.23	161.1	1.1	178.1	4.9	410.3	64.9	161	1.1	NA
Spot 45	799	12406	1.0	18.7657	1.2	0.1919	1.8	0.0267	0.4	0.23	169.9	0.7	178.2	2.9	290.0	39.9	170	0.7	NA
Spot 60	490	26518	2.5	13.1446	0.8	0.5558	1.0	0.0531	0.6	0.56	333.6	1.9	448.8	3.8	1092.3	17.3	334	1.9	NA
Spot 2	662	25107	1.3	18.0769	1.0	0.4709	1.4	0.0626	0.6	0.42	391.2	2.2	391.8	4.5	395.3	28.3	391	2.2	NA
Spot 88	102	4501	1.5	14.9076	3.4	0.5930	4.0	0.0673	0.6	0.15	420.0	2.3	472.8	15.0	737.5	83.2	420	2.3	57
Spot 99	185	8015	1.9	17.0027	1.5	0.6012	1.9	0.0764	0.6	0.33	474.3	2.9	478.0	7.1	495.5	38.6	474	2.9	96
Spot 4	262	27132	1.8	13.1404	0.8	1.8665	1.2	0.1795	0.6	0.54	1064.3	6.1	1069.3	7.6	1079.4	19.6	1079	19.6	99
Spot 12	82	8497	2.2	12.5248	1.7	2.0416	1.8	0.1897	0.7	0.38	1119.9	7.1	1129.5	12.6	1148.0	34.1	1148	34.1	98
Spot 40	521	61689	2.0	12.2640	0.6	2.3481	0.9	0.2098	0.6	0.66	1227.9	6.6	1227.0	6.4	1225.5	13.2	1225	13.2	100
Spot 5	230	32434	2.4	11.2543	1.1	2.8716	1.6	0.2361	1.0	0.66	1366.2	12.9	1374.5	12.0	1387.4	23.0	1387	23.0	98
Spot 75	46	6818	0.9	10.4245	2.0	3.3452	2.4	0.2580	1.1	0.45	1479.7	13.9	1491.7	18.5	1508.8	39.9	1509	39.9	98
Spot 65	710	103582	1.2	9.1559	0.5	4.6478	0.7	0.3087	0.5	0.70	1734.2	7.4	1757.9	5.8	1786.2	9.1	1786	9.1	97
Spot 61	678	92594	2.6	9.1292	0.5	4.6127	0.8	0.3044	0.5	0.70	1713.1	8.2	1751.6	6.5	1797.8	10.0	1798	10.0	95
Spot 105	169	31195	1.3	8.8443	0.7	5.1224	0.9	0.3299	0.5	0.62	1838.0	8.7	1839.8	7.5	1841.9	12.5	1842	12.5	100
Spot 103	242	49398	1.2	8.5583	0.7	5.4959	0.9	0.3418	0.6	0.66	1895.2	10.0	1900.0	8.0	1905.2	12.6	1905	12.6	99
Spot 67	246	32083	2.2	8.1783	0.6	5.9019	0.8	0.3509	0.5	0.66	1938.9	9.2	1961.5	7.2	1985.5	11.0	1986	11.0	98
Spot 101	686	53143	3.4	5.8931	0.6	11.4628	0.8	0.4897	0.6	0.69	2569.4	12.0	2561.6	7.7	2555.3	9.9	2555	9.9	101
Spot 57	125	42169	0.8	5.2600	0.6	13.8559	0.8	0.5267	0.6	0.68	2727.3	12.4	2739.9	7.7	2749.2	9.7	2749	9.7	99
ELM18DVT-C6																			
Spot 78	368	140	1.3	5.4730	9.0	0.0521	40.1	0.0047	0.7	0.02	29.9	0.2	51.6	20.2	1225.3	821.2	29.9	0.2	NA
Spot 102	429	1063	1.0	9.4761	7.2	0.0616	14.4	0.0048	0.5	0.04	31.2	0.2	60.7	8.5	1470.2	275.5	31.2	0.2	NA
Spot 77	329	778	0.9	8.1587	10.2	0.0710	12.6	0.0049	0.5	0.04	31.6	0.2	69.6	8.5	1708.4	232.2	31.6	0.2	NA
Spot 73	95	251	1.6	4.9795	16.4	0.1017	22.0	0.0050	0.5	0.02	31.9	0.2	98.4	20.6	2333.7	381.5	31.9	0.2	NA
Spot 49	221	740	1.2	6.6589	9.6	0.0913	10.8	0.0050	0.6	0.06	32.3	0.2	88.7	9.2	2124.9	189.4	32.3	0.2	NA
Spot 87	104	365	1.2	4.7830	17.0	0.1213	21.6	0.0050	0.7	0.03	32.4	0.2	116.2	23.7	2601.7	364.4	32.4	0.2	NA
Spot 12	390	1195	0.7	8.6298	7.2	0.0730	9.4	0.0051	0.5	0.05	32.7	0.2	71.5	6.5	1695.9	174.1	32.7	0.2	NA
Spot 98	184	564	1.2	6.5000	11.5	0.0931	16.7	0.0052	0.5	0.03	33.4	0.2	90.4	14.4	2097.2	295.5	33.4	0.2	NA
Spot 72	1132	3673	3.4	14.7559	3.1	0.0462	4.9	0.0053	0.5	0.10	33.9	0.2	45.9	2.2	726.7	103.9	33.9	0.2	NA
Spot 105	156	493	1.2	5.0337	14.3	0.1264	17.7	0.0053	0.7	0.04	34.1	0.2	120.8	20.1	2587.5	297.0	34.1	0.2	NA
Spot 7	774	2195	1.7	13.9222	4.2	0.0483	8.5	0.0054	0.6	0.07	34.6	0.2	47.9	4.0	776.8	179.3	34.6	0.2	NA
Spot 32	476	1477	2.2	10.0514	9.2	0.0673	9.7	0.0054	0.6	0.06	34.9	0.2	66.1	6.2	1424.1	185.0	34.9	0.2	NA
Spot 22	304	915	2.1	8.2187	12.5	0.0798	14.5	0.0054	0.6	0.04	35.0	0.2	78.0	10.9	1736.9	266.4	35.0	0.2	NA
Spot 13	241	226	1.0	6.8607	9.2	0.0626	49.6	0.0055	0.5	0.01	35.2	0.2	61.7	29.7	1269.6	1037.1	35.2	0.2	NA
Spot 20	608	1675	1.9	11.8181	5.4	0.0574	11.6	0.0055	0.6	0.06	35.3	0.2	56.7	6.4	1089.9	232.8	35.3	0.2	NA
Spot 54	2961	10120	8.1	18.1277	1.7	0.0408	2.2	0.0055	0.8	0.36	35.6	0.3	40.6	0.9	347.1	46.9	35.6	0.3	NA
Spot 99	1061	9281	1.9	18.0664	2.0	0.0962	2.5	0.0130	0.6	0.22	83.3	0.5	93.2	2.3	354.5	55.8	83.3	0.5	NA
Spot 64	458	4822	2.1	16.2508	3.0	0.1312	3.8	0.0163	0.6	0.14	104.5	0.6	125.2	4.5	539.3	83.3	104	0.6	NA
Spot 29	284	15172	2.4	11.1449	2.1	0.2302	2.2	0.0188	0.5	0.24	120.2	0.6	210.3	4.3	1398.0	41.8	120	0.6	NA
Spot 79	450	6418	1.1	17.4598	6.0	0.1819	8.5	0.0241	5.5	0.65	153.3	8.4	169.7	13.3	403.9	145.5	153	8.4	NA
Spot 6	485	6772	0.9	17.6377	2.0	0.1825	3.1	0.0243	0.6	0.20	155.0	1.0	170.2	4.8	387.4	67.2	155	1.0	NA
Spot 114	229	3843	0.9	14.0905	3.8	0.2264	4.4	0.0245	0.5	0.12	155.8	0.8	207.2	8.3	840.9	91.4	156	0.8	NA
Spot 25	726	10972	1.5	18.3616	1.9	0.1791	2.3	0.0245	0.7	0.32	156.2	1.1	167.3	3.5	328.3	48.5	156	1.1	NA
Spot 92	568	6490	2.0	18.3423	1.8	0.1761	3.8	0.0245	0.9	0.25	156.3	1.4	164.7	5.7	287.9	83.2	156	1.4	NA
Spot 69	2016	17616	2.0	19.6391	1.0	0.1695	1.2	0.0247	0.6	0.51	157.0	0.9	159.0	1.7	188.7	23.7	157	0.9	NA
Spot 117	455	4355	1.5	16.9773	2.3	0.1894	4.2	0.0248	0.9	0.21	157.7	1.4	176.1	6.8	430.2	92.1	158	1.4	NA
Spot 34	527	1661	1.4	16.3242	2.7	0.1788	12.6	0.0248	0.5	0.04	157.9	0.8	167.1	19.5	299.6	289.1	158	0.8	NA
Spot 96	969	14246	1.2	19.0668	1.2	0.1752	2.0	0.0248	0.6	0.30	158.0	0.9	163.9	3.0	250.7	43.3	158	0.9	NA
Spot 90	433	6206	1.2	18.0250	1.8	0.1811	2.4	0.0248	0.6	0.24	158.1	0.9	169.0	3.8	325.1	53.7	158	0.9	NA
Spot 45	568	7102	1.2	17.7534	1.5	0.1857	3.3	0.0249	0.6	0.18	158.4	1.0	173.0	5.3	377.1	73.6	158	1.0	NA
Spot 101	848	10587	1.2	18.8749	1.4	0.1765	1.9	0.0249	0.6	0.29	158.5	0.9	165.0	2.9	260.4	41.6	158	0.9	NA
Spot 103	256	3950	1.1	15.6612	2.8	0.2060	3.4	0.0249	0.5	0.15	158.5	0.8	190.2	6.0	603.8	73.6	159	0.8	NA
Spot 106	444	7322	0.9	17.7427	2.3	0.1863	3.2	0.0249	0.6	0.18	158.6	0.9	173.5	5.1	381.1	70.1	159	0.9	NA
Spot 116	1281	19826	1.2	19.3437	1.2	0.1747	1.4	0.0249	0.6	0.46	158.6	1.0	163.5	2.1	234.5	28.3	159	1.0	NA
Spot 113	572	10243	1.7	17.6965	2.1	0.1889	2.4	0.0249	0.7	0.28	158.7	1.1	175.7	3.9	410.9	51.8	159	1.1	NA
Spot 1	1478	18919	1.9	19.3708	1.0	0.1745	1.4	0.0249	0.7	0.46	158.8	1.0	163.3	2.1	229.3	29.1	159	1.0	NA
Spot 89	2417	42375	1.5	19.9855	0.8	0.1702	1.1	0.0249	0.6	0.60	158.8	1.0	159.6	1.6	171.4	20.4	159	1.0	NA
Spot 53	725	11964	1.7	19.1511	1.5	0.1748	2.8	0.0250	0.6	0.21	159.0	0.9	163.6	4.3	230.2	63.7	159	0.9	NA
Spot 59	419	5528	1.5	17.1805	2.1	0.1902	2.9	0.0250	0.6	0.22	159.1	1.0	176.8	4.7	420.8	62.6	159	1.0	NA
Spot 67	373	4715	1.2	16.4193	2.7	0.1983	3.7	0.0250	0.5	0.13	159.1	0.8	183.7	6.3	512.9	81.6	159	0.8	NA
Spot 80	344	4625	1.3	16.3181	2.8	0.2000	4.9	0.0250	0.6	0.13	159.4	1.0	185.1	8.2	526.8	105.8	159	1.0	NA
Spot 31	1397	21699	1.7	19.5697	1.0	0.1739	1.3	0.0250	0.6	0.42	159.5	0.9	162.8	2.0	212.1	27.8	159	0.9	NA
Spot 39	678	9371	0.7	18.3059	1.7	0.1829	2												

Spot 75	1234	16926	1.7	19.6395	1.1	0.1754	1.9	0.0255	0.7	0.37	162.2	1.1	164.1	2.8	190.5	40.3	162	1.1	NA
Spot 38	981	2913	1.7	17.5308	1.9	0.1824	5.5	0.0255	0.5	0.09	162.4	0.8	170.2	8.7	279.6	126.5	162	0.8	NA
Spot 109	2027	8114	1.0	19.4839	0.8	0.1739	1.4	0.0255	0.6	0.41	162.4	0.9	162.8	2.1	167.7	29.1	162	0.9	NA
Spot 11	630	11583	0.7	17.8409	1.9	0.1922	2.4	0.0255	0.7	0.28	162.5	1.1	178.5	3.9	397.2	51.2	162	1.1	NA
Spot 35	413	5895	1.5	17.2215	2.2	0.1957	2.7	0.0256	0.5	0.20	162.9	0.9	181.5	4.5	431.2	59.6	163	0.9	NA
Spot 26	1308	19246	1.9	19.1998	1.0	0.1814	1.6	0.0257	0.6	0.38	163.6	1.0	169.2	2.5	249.3	33.7	164	1.0	NA
Spot 104	913	13288	1.5	18.8516	1.3	0.1838	1.7	0.0257	0.6	0.35	163.7	1.0	171.4	2.6	277.7	36.0	164	1.0	NA
Spot 16	565	8370	1.1	17.8005	1.8	0.1926	2.1	0.0258	0.6	0.29	163.9	1.0	178.8	3.5	380.9	45.6	164	1.0	NA
Spot 119	952	14198	1.2	19.1570	1.1	0.1814	1.5	0.0258	0.7	0.47	164.0	1.1	169.3	2.3	244.1	29.8	164	1.1	NA
Spot 47	1062	15925	1.5	19.3185	1.0	0.1804	1.3	0.0258	0.5	0.37	164.1	0.8	168.4	2.1	228.5	28.9	164	0.8	NA
Spot 27	509	6921	1.4	17.6942	2.0	0.1935	2.6	0.0259	0.8	0.31	164.6	1.3	179.6	4.3	381.9	55.5	165	1.3	NA
Spot 58	215	3430	2.2	14.9337	4.0	0.2252	5.7	0.0262	0.6	0.10	166.7	1.0	206.2	10.7	686.1	121.8	167	1.0	NA
Spot 42	951	1605	1.2	16.4567	1.7	0.1875	15.7	0.0264	0.6	0.04	168.1	1.0	174.5	25.2	262.4	NA	168	1.0	NA
Spot 60	604	9724	1.0	17.3692	1.8	0.2055	2.1	0.0267	0.5	0.23	170.1	0.8	189.7	3.6	441.1	44.7	170	0.8	NA
Spot 9	217	10137	1.6	16.9438	1.6	0.6134	2.4	0.0774	0.7	0.27	480.7	3.1	485.7	9.4	509.2	51.3	481	3.1	94
Spot 41	172	14868	2.1	13.5617	1.0	1.7277	1.3	0.1727	0.6	0.43	1026.8	5.3	1018.9	8.2	1002.0	23.3	1002	23.3	102
Spot 94	54	5337	1.9	12.9105	2.6	1.8850	3.0	0.1835	0.6	0.20	1086.0	6.2	1075.8	20.1	1055.3	59.6	1055	59.6	103
Spot 84	295	27864	1.6	13.2589	0.8	1.8214	1.0	0.1770	0.6	0.59	1050.5	6.0	1053.2	6.9	1058.7	17.0	1059	17.0	99
Spot 91	79	7890	0.7	12.9907	1.6	1.8885	2.3	0.1829	0.7	0.28	1082.8	6.5	1077.1	15.3	1065.5	44.4	1066	44.4	102
Spot 14	586	15391	0.8	13.0974	0.6	1.6443	1.2	0.1587	0.6	0.49	949.4	5.2	987.4	7.6	1072.8	21.0	1073	21.0	89
Spot 63	168	17481	2.1	13.0531	1.1	1.9534	1.5	0.1877	0.8	0.55	1109.2	8.4	1099.6	10.0	1080.7	25.0	1081	25.0	103
Spot 74	299	34873	3.0	13.1118	0.6	1.9237	0.8	0.1845	0.5	0.62	1091.3	5.3	1089.4	5.7	1085.5	13.3	1086	13.3	101
Spot 66	86	8755	2.3	12.6240	1.5	2.0025	1.9	0.1880	0.5	0.25	1110.6	4.9	1116.4	13.1	1127.6	37.2	1128	37.2	98
Spot 46	56	5946	2.1	12.3395	2.1	1.9254	2.9	0.1779	0.5	0.19	1055.6	5.3	1089.9	19.6	1159.2	57.2	1159	57.2	91
Spot 50	189	20824	4.5	12.5377	0.9	2.2223	1.2	0.2047	0.6	0.48	1200.5	6.3	1188.1	8.3	1165.5	20.6	1165	20.6	103
Spot 86	169	18772	2.3	12.5152	0.8	2.1304	1.3	0.1959	0.6	0.46	1153.4	6.1	1158.7	8.7	1168.6	22.2	1169	22.2	99
Spot 85	84	11927	1.4	11.3828	1.4	2.7859	1.8	0.2340	0.5	0.29	1355.2	6.3	1351.8	13.2	1346.2	32.7	1346	32.7	101
Spot 65	245	24573	2.4	11.2620	0.6	2.8287	0.9	0.2336	0.5	0.51	1353.2	5.6	1363.2	6.7	1378.7	14.8	1379	14.8	98
Spot 56	233	36211	1.9	10.9163	0.6	3.0982	0.8	0.2474	0.5	0.59	1425.1	6.2	1432.3	6.3	1442.9	12.7	1443	12.7	99
Spot 10	292	47310	1.0	10.7971	0.6	3.1671	0.9	0.2493	0.6	0.66	1435.1	7.4	1449.2	6.7	1469.9	12.4	1470	12.4	98
Spot 83	175	25858	0.9	9.6618	0.8	4.0448	1.1	0.2861	0.7	0.66	1621.9	10.5	1643.3	9.1	1670.7	15.5	1671	15.5	97
Spot 33	23	3881	4.3	9.3290	2.9	4.4231	3.5	0.3099	0.6	0.16	1740.1	8.6	1716.7	29.2	1688.2	64.3	1688	64.3	103
Spot 100	148	27534	2.1	9.5595	0.6	4.2393	0.8	0.2962	0.5	0.60	1672.6	7.1	1681.7	6.6	1692.9	11.9	1693	11.9	99
Spot 55	370	73327	2.8	9.4820	0.7	4.4403	0.9	0.3072	0.6	0.68	1727.1	9.6	1719.9	7.7	1711.1	12.5	1711	12.5	101
Spot 70	831	124227	4.8	9.1880	0.6	4.4261	0.9	0.2965	0.6	0.71	1674.2	9.4	1717.2	7.5	1770.2	11.7	1770	11.7	95
Spot 71	380	61177	3.0	9.1536	0.7	4.7555	0.9	0.3177	0.7	0.71	1778.7	10.3	1777.1	7.8	1775.2	11.9	1775	11.9	100
Spot 21	387	66386	2.9	9.1492	0.8	4.7590	1.2	0.3177	0.8	0.70	1778.4	12.5	1777.7	9.7	1776.8	15.1	1777	15.1	100
Spot 95	272	32928	2.8	9.1283	0.7	4.5911	0.9	0.3063	0.6	0.65	1722.4	9.3	1747.6	7.9	1778.0	13.2	1778	13.2	97
Spot 81	409	75252	3.0	9.1339	0.7	4.7456	1.0	0.3161	0.7	0.68	1770.4	10.4	1775.3	8.3	1781.1	13.2	1781	13.2	99
Spot 120	538	92514	4.3	9.1443	0.7	4.7672	0.9	0.3172	0.7	0.70	1775.9	10.2	1779.1	7.9	1782.9	12.2	1783	12.2	100
Spot 107	346	73000	1.4	9.1366	0.6	4.9342	0.8	0.3283	0.5	0.68	1829.9	8.3	1808.1	6.4	1783.1	10.2	1783	10.2	103
Spot 115	382	20931	1.1	8.6416	0.7	5.1093	1.1	0.3226	0.7	0.65	1802.5	9.8	1837.7	9.0	1877.7	14.5	1878	14.5	96
Spot 24	196	41847	1.5	8.2930	0.6	5.8128	0.9	0.3515	0.6	0.68	1941.5	9.7	1948.3	7.4	1955.5	11.2	1956	11.2	99
Spot 82	427	115499	1.1	5.4106	0.6	12.9336	0.8	0.5097	0.6	0.68	2655.3	12.0	2674.8	7.6	2689.6	9.7	2690	9.7	99

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Spot 110	272	73	2.3	3.4622	24.8	0.0151	181.7	0.0011	0.6	0.00	7.0	0.0	15.2	27.4	1639.4	NA	7.0	0.0	NA
Spot 68	198	179	2.6	4.8514	17.3	0.0532	56.6	0.0029	0.5	0.01	18.8	0.1	52.6	29.0	2127.9	1094.6	18.8	0.1	NA
Spot 114	97	241	4.0	4.6778	14.7	0.0677	20.3	0.0031	0.6	0.03	19.7	0.1	66.5	13.1	2463.4	347.5	19.7	0.1	NA
Spot 39	348	177	3.7	5.9712	10.4	0.0382	81.8	0.0031	0.7	0.01	20.2	0.1	38.1	30.6	1386.5	2033.9	20.2	0.1	NA
Spot 78	476	189	3.2	7.0185	6.8	0.0319	38.8	0.0035	0.6	0.01	22.6	0.1	31.8	12.2	801.8	843.2	22.6	0.1	NA
Spot 88	849	235	2.3	7.8249	6.1	0.0324	41.4	0.0035	0.6	0.01	22.8	0.1	32.4	13.2	819.6	901.8	22.8	0.1	NA
Spot 100	127	365	2.7	6.3011	16.6	0.0600	33.7	0.0036	0.6	0.02	23.0	0.1	59.2	19.4	1982.5	618.5	23.0	0.1	NA
Spot 4	592	1326	2.1	11.3539	5.8	0.0388	13.8	0.0036	0.5	0.03	23.4	0.1	38.7	5.3	1132.1	276.5	23.4	0.1	NA
Spot 20	697	506	2.0	9.8912	6.7	0.0366	23.4	0.0037	0.7	0.03	23.5	0.2	36.5	8.4	1004.3	480.1	23.5	0.2	NA
Spot 62	378	892	2.0	8.0033	10.5	0.0551	11.5	0.0037	0.5	0.05	23.5	0.1	54.5	6.1	1787.5	210.9	23.5	0.1	NA
Spot 103	275	678	2.0	5.5861	13.2	0.0808	13.5	0.0037	0.8	0.06	23.6	0.2	78.9	10.3	2454.9	229.7	23.6	0.2	NA
Spot 18	550	1492	2.4	10.9487	6.1	0.0413	10.0	0.0037	0.6	0.06	23.6	0.1	41.1	4.0	1236.9	196.4	23.6	0.1	NA
Spot 10	1465	710	1.6	12.2696	3.7	0.0309	14.8	0.0037	0.7	0.04	23.6	0.2	30.9	4.5	641.5	319.4	23.6	0.2	NA
Spot 50	658	940	1.8	10.7081	6.2	0.0396	17.1	0.0037	0.5	0.03	23.7	0.1	39.5	6.6	1147.4	342.1	23.7	0.1	NA
Spot 35	1043	675	1.8	11.1734	5.4	0.0346	25.1	0.0037	0.6	0.02	23.7	0.1	34.5	8.5	868.4	528.5	23.7	0.1	NA
Spot 42	190	438	2.5	5.9464	12.5	0.0701	17.4	0.0037	0.7	0.04	23.7	0.2	68.8	11.6	2200.7	304.0	23.7	0.2	NA
Spot 8	301	613	2.2	7.1959	9.8	0.0596	12.1	0.0037	0.6	0.05	23.8	0.1	58.8	6.9	1911.6	217.9	23.8	0.1	NA
Spot 41	797	579	2.1	11.1067	5.8	0.0330	26.1	0.0037	0.6	0.02	23.8	0.1	33.0	8.5	769.5	557.8	23.8	0.1	NA
Spot 23	804	1647	2.4	10.6242	6.6	0.0435	8.7	0.0037	0.7	0.08	23.8	0.2	43.3	3.7	1323.3	169.0	23.8	0.2	NA
Spot 119	302	594	2.6	7.3324	9.9	0.0578	20.0	0.0037	0.6	0.03	23.8	0.1	57.1	11.1	1851.4	365.7	23.8	0.1	NA
Spot 71	332	594	2.4	8.2619	8.6	0.0498	23.1	0.0037	0.6	0.02	23.9	0.1	49.3	11.1	1575.7	439.1	23.9	0.1	NA
Spot 28	289	642	2.2	7.3672	9.9	0.0585	17.3	0.0037	0.6	0.03	23.9	0.1	57.7	9.7	1870.4	314.3	23.9	0.1	NA
Spot 80	603	1407	2.4	11.7492	6.7	0.0383	8.5	0.0037	0.6	0.07	23.9	0.1	38.2	3.2	1062.0	171.0	23.9	0.1	NA
Spot 60	308	653	1.8	8.8573	11.3	0.0469	23.3	0.0037	0.6	0.02	24.0	0.1	46.5	10.6	1450.6	448.8	24.0	0.1	NA
Spot 59	671	1584	2.3	11.1884	6.0	0.0413	6.5	0.0037	0.6	0.09	24.0	0.1	41.1	2.6	1200.5	127.3	24.0	0.1	NA
Spot 61	488	1251	2.6	7.5233	6.5	0.0629	7.7	0.0037	0.7	0.10	24.1	0.2	62.0	4.6	1982.4	136.0	24.1	0.2	NA
Spot 79	1069	2162	1.8	13.5698	4.3	0.0346	7.6	0.0038	0.5	0.07	24.1	0.1	34.5	2.6	832.6	158.9	24.1	0.1	NA
Spot 113	391	976	3.0	7.7989	8.2	0.0589	13.6	0.0038	0.9	0.06	24.1	0.2	58.2	7.7	1863.2	246.6	24.1	0.2	NA
Spot 14	949	808	1.7	11.8408	4.9	0.0344	17.7	0.0038	0.5	0.03	24.2	0.1	34.3	6.0	820.6	371.8	24.2	0.1	NA
Spot 31	387	993	1.8	7.8778	8.5	0.0585	11.1	0.0038	0.7	0.06	24.2	0.2	57.8	6.2	1847.7	200.4	24.2	0.2	NA
Spot 81	756	1597	2.0	10.8429	5.5	0.0431	8.5	0.0038	0.5	0.06	24.2	0.1	42.8	3.6	1272.9	166.6	24.2	0.1	NA
Spot 51	344	798	2.2	7.5082	9.7	0.0601	14.6	0.0038	0.6	0.04	24.2	0.1	59.3	8.4	1893.9	264.5	24.2	0.1	NA
Spot 26	324	834	2.5	7.1917	12.5	0.0639	17.7	0.0038	0.5	0.03	24.3	0.1	62.9	10.8	1995.9	316.5	24.3	0.1	NA
Spot 96	437	1165	1.9	9.0017	9.4	0.0515	12.5	0.0038	0.6	0.05	24.3	0.1	51.0	6.2	1605.3	233.5	24.3	0.1	NA
Spot 92	692	1470	2.8	11.3083	7.3	0.0410	12.7	0.0038	0.6	0.05	24.3	0.1	40.8	5.1	1162.5	251.5	24.3	0.1	NA
Spot 95	1789	4701	2.5	15.7660	3.8	0.0314	5.7	0.0038	0.7	0.12	24.3	0.2	31.4	1.8	610.3	122.9	24.3	0.2	NA
Spot 83	367	867	2.3	7.5231	9.2	0.0611	12.4	0.0038	0.5	0.04	24.3	0.1	60.2	7.2	1912.2	222.6	24.3	0.1	NA
Spot 101	430	1109	3.0	9.8080	7.3	0.0465	9.5	0.0038	0.5	0.05	24.4	0.1	46.2	4.3	1407.9	182.5	24.4	0.1	NA
Spot 3	617	1498	1.9	10.5430	6.2	0.0447	7.5	0.0038	0.6	0.08	24.4	0.1	44.4	3.3	1327.8	144.6	24.4	0.1	NA
Spot 33	1953	3626	2.6	16.1400	2.7	0.0302	6.9	0.0038	0.7	0.11	24.4	0.2	30.2	2.1	521.3	151.8	24.4	0.2	NA
Spot 16	715	1877	2.2	12.5899	6.4	0.0375	11.3	0.0038	0.6	0.05	24.4	0.1	37.3	4.2	975.1	231.6	24.4	0.1	NA
Spot 70	878	1872	1.8	12.6806	4.6	0.0372	8.7	0.0038	0.5	0.06	24.5	0.1	37.1	3.2	957.1	178.5	24.5	0.1	NA
Spot 98	708	1492	2.5	10.6977	6.3	0.0440	11.5	0.0038	0.5	0.05	24.5	0.1	43.7	4.9	1288.6	224.6	24.5	0.1	NA
Spot 44	665	1604	1.9	11.0204	6.2	0.0429	9.1	0.0038	0.5	0.05	24.5	0.1	42.6	3.8	1237.5	177.8	24.5	0.1	NA
Spot 87	546	1227	2.1	10.8317	6.6	0.0423	12.6	0.0038	0.5	0.04	24.5	0.1	42.1	5.2	1211.6	249.3	24.5	0.1	NA
Spot 72	907	2269	2.1	13.3535	4.4	0.0359	9.7	0.0038	0.9	0.09	24.5	0.2	35.8	3.4	878.9	199.4	24.5	0.2	NA
Spot 17	1560	2174	2.0	14.6009	2.9	0.0324	4.9	0.0038	0.6	0.12	24.5	0.1	32.4	1.6	662.4	103.5	24.5	0.1	NA
Spot 37	2020	2992	2.5	16.5680	2.9	0.0291	4.7	0.0038	0.6	0.12	24.5	0.1	29.1	1.4	424.9	104.9	24.5	0.1	NA
Spot 69	1044	2681	2.1	12.8559	3.8	0.0380	7.6	0.0038	0.6	0.07	24.6	0.1	37.9	2.8	992.4	154.5	24.6	0.1	NA

Spot 75	1337	3036	1.0	15.1117	4.0	0.0322	6.6	0.0038	0.5	0.08	24.6	0.1	32.2	2.1	646.5	142.4	24.6	0.1	NA
Spot 22	483	1100	1.9	8.4823	7.6	0.0554	9.2	0.0038	0.6	0.06	24.6	0.1	54.8	4.9	1717.3	169.2	24.6	0.1	NA
Spot 117	472	972	2.8	9.5545	7.9	0.0474	10.3	0.0038	0.6	0.06	24.6	0.2	47.0	4.7	1423.5	197.0	24.6	0.2	NA
Spot 66	867	2256	2.9	12.8906	3.8	0.0375	5.1	0.0038	0.5	0.09	24.6	0.1	37.3	1.9	957.0	104.2	24.6	0.1	NA
Spot 24	656	1478	2.1	11.1879	6.5	0.0420	7.3	0.0038	0.6	0.08	24.6	0.1	41.8	3.0	1186.8	143.8	24.6	0.1	NA
Spot 47	232	544	1.6	6.4642	11.5	0.0686	16.4	0.0038	0.6	0.04	24.6	0.2	67.4	10.7	2097.1	290.7	24.6	0.2	NA
Spot 102	399	943	2.0	8.4164	9.1	0.0550	10.3	0.0038	0.7	0.07	24.7	0.2	54.4	5.5	1698.2	190.7	24.7	0.2	NA
Spot 30	733	1779	3.3	11.7641	5.5	0.0406	7.8	0.0038	0.6	0.08	24.7	0.2	40.4	3.1	1115.7	154.7	24.7	0.2	NA
Spot 2	955	2051	2.0	13.4391	5.1	0.0356	5.5	0.0038	0.7	0.12	24.7	0.2	35.5	1.9	848.6	113.6	24.7	0.2	NA
Spot 93	882	2176	3.5	11.8253	5.4	0.0412	6.0	0.0038	0.6	0.10	24.7	0.2	41.0	2.4	1142.8	119.7	24.7	0.2	NA
Spot 90	925	1688	1.8	13.1341	4.1	0.0357	10.7	0.0038	0.4	0.04	24.7	0.1	35.6	3.7	852.2	222.5	24.7	0.1	NA
Spot 74	1239	2950	2.1	15.0253	3.6	0.0325	5.8	0.0038	0.6	0.10	24.7	0.1	32.5	1.9	655.0	123.8	24.7	0.1	NA
Spot 67	637	1540	1.9	10.7497	6.4	0.0443	12.4	0.0038	0.5	0.04	24.7	0.1	44.0	5.4	1283.2	243.0	24.7	0.1	NA
Spot 106	1010	2514	2.2	14.3546	4.3	0.0338	6.5	0.0038	0.6	0.09	24.7	0.1	33.7	2.1	732.7	136.3	24.7	0.1	NA
Spot 82	366	860	2.9	8.3031	10.9	0.0552	18.1	0.0038	0.6	0.03	24.7	0.1	54.6	9.6	1700.0	335.2	24.7	0.1	NA
Spot 7	360	802	2.4	7.8619	7.6	0.0585	12.2	0.0038	0.6	0.05	24.7	0.1	57.7	6.9	1804.9	223.1	24.7	0.1	NA
Spot 63	1060	1164	2.1	13.1433	4.8	0.0336	7.3	0.0038	0.6	0.08	24.7	0.1	33.6	2.4	723.1	155.6	24.7	0.1	NA
Spot 105	587	1568	1.9	10.3861	6.3	0.0462	11.7	0.0038	0.6	0.05	24.7	0.2	45.8	5.3	1362.5	226.2	24.7	0.2	NA
Spot 27	905	949	2.8	10.8315	4.7	0.0409	12.8	0.0038	0.7	0.06	24.7	0.2	40.7	5.1	1125.1	256.4	24.7	0.2	NA
Spot 5	470	1102	2.0	9.3354	6.5	0.0502	9.5	0.0038	0.6	0.06	24.7	0.1	49.7	4.6	1520.1	179.7	24.7	0.1	NA
Spot 64	452	1151	2.2	9.4929	8.1	0.0493	10.7	0.0038	0.6	0.05	24.8	0.1	48.9	5.1	1486.6	203.5	24.8	0.1	NA
Spot 38	1388	3488	2.7	15.7741	3.4	0.0314	6.4	0.0039	0.6	0.09	24.8	0.1	31.3	2.0	568.6	138.9	24.8	0.1	NA
Spot 49	1475	2845	1.6	14.1988	3.6	0.0346	8.3	0.0039	0.5	0.06	24.8	0.1	34.5	2.8	779.0	174.6	24.8	0.1	NA
Spot 54	988	2440	2.0	12.3439	4.6	0.0398	7.1	0.0039	0.5	0.08	24.8	0.1	39.6	2.8	1065.4	142.8	24.8	0.1	NA
Spot 112	707	1632	1.6	10.5517	6.6	0.0456	7.4	0.0039	0.7	0.09	24.8	0.2	45.3	3.3	1334.7	142.8	24.8	0.2	NA
Spot 55	876	2093	2.8	13.5844	4.4	0.0354	7.3	0.0039	0.7	0.09	24.8	0.2	35.3	2.5	822.0	151.8	24.8	0.2	NA
Spot 32	1164	2723	2.1	14.0298	4.1	0.0350	7.5	0.0039	0.6	0.08	24.8	0.2	34.9	2.6	799.6	156.1	24.8	0.2	NA
Spot 97	679	1570	1.3	11.7085	6.0	0.0405	9.0	0.0039	0.6	0.07	24.8	0.2	40.3	3.6	1099.2	180.1	24.8	0.2	NA
Spot 109	552	1290	1.5	10.3842	6.1	0.0453	10.7	0.0039	0.6	0.06	24.8	0.2	45.0	4.7	1318.5	207.6	24.8	0.2	NA
Spot 108	451	1186	2.3	9.5749	8.7	0.0493	15.1	0.0039	0.6	0.04	24.9	0.2	48.9	7.2	1476.6	288.7	24.9	0.2	NA
Spot 19	892	2423	2.3	13.2581	4.3	0.0370	5.4	0.0039	0.5	0.09	24.9	0.1	36.9	2.0	908.2	111.6	24.9	0.1	NA
Spot 76	532	1414	2.0	11.3104	6.5	0.0418	8.9	0.0039	0.6	0.07	25.0	0.2	41.6	3.6	1150.4	176.0	25.0	0.2	NA
Spot 89	977	2637	2.1	13.0002	4.2	0.0382	8.0	0.0039	0.6	0.08	25.0	0.2	38.1	3.0	967.2	162.6	25.0	0.2	NA
Spot 34	717	1546	2.4	10.6608	6.4	0.0453	8.2	0.0039	0.7	0.09	25.0	0.2	45.0	3.6	1303.1	158.0	25.0	0.2	NA
Spot 12	3292	6884	2.9	18.2462	1.8	0.0282	2.9	0.0039	0.6	0.20	25.0	0.1	28.2	0.8	308.0	64.1	25.0	0.1	NA
Spot 111	411	1087	2.8	8.2810	10.4	0.0579	12.3	0.0039	0.6	0.05	25.0	0.2	57.1	6.8	1762.6	225.1	25.0	0.2	NA
Spot 57	817	322	1.8	9.7330	5.6	0.0308	73.2	0.0039	0.6	0.01	25.1	0.2	30.8	22.2	501.8	NA	25.1	0.2	NA
Spot 15	769	1883	2.6	11.8055	4.8	0.0413	8.4	0.0039	0.6	0.07	25.1	0.1	41.1	3.4	1120.2	168.2	25.1	0.1	NA
Spot 85	1019	2414	1.6	13.3071	4.0	0.0371	5.3	0.0039	0.7	0.12	25.1	0.2	37.0	1.9	899.6	109.5	25.1	0.2	NA
Spot 6	734	1553	1.8	11.5855	5.6	0.0415	11.9	0.0039	0.6	0.05	25.1	0.1	41.3	4.8	1127.1	237.3	25.1	0.1	NA
Spot 84	728	1781	2.2	12.1697	5.6	0.0398	6.6	0.0039	0.6	0.09	25.1	0.1	39.6	2.6	1040.9	133.3	25.1	0.1	NA
Spot 21	1853	4086	2.1	15.8493	3.0	0.0319	3.5	0.0039	0.5	0.16	25.1	0.1	31.9	1.1	581.0	74.5	25.1	0.1	NA
Spot 118	477	1171	1.9	9.9975	7.8	0.0472	9.2	0.0039	0.8	0.09	25.1	0.2	46.8	4.2	1375.5	177.1	25.1	0.2	NA
Spot 13	748	1773	2.6	12.0471	6.0	0.0402	11.1	0.0039	0.6	0.06	25.1	0.2	40.1	4.3	1062.5	222.8	25.1	0.2	NA
Spot 56	1388	3273	1.7	14.8150	3.7	0.0339	4.9	0.0039	0.6	0.12	25.2	0.1	33.9	1.6	703.4	102.7	25.2	0.1	NA
Spot 65	437	1121	2.3	9.2881	6.9	0.0512	9.0	0.0039	0.8	0.09	25.2	0.2	50.7	4.5	1527.3	169.2	25.2	0.2	NA
Spot 94	908	2307	2.5	12.6823	5.3	0.0391	7.2	0.0039	0.5	0.07	25.2	0.1	39.0	2.8	999.2	146.6	25.2	0.1	NA
Spot 99	3278	7669	2.4	17.8717	2.0	0.0291	2.9	0.0039	0.7	0.24	25.2	0.2	29.2	0.8	368.7	64.0	25.2	0.2	NA
Spot 77	846	2446	2.5	13.5601	4.6	0.0365	5.7	0.0039	0.6	0.10	25.2	0.1	36.4	2.0	858.0	117.4	25.2	0.1	NA
Spot 45	435	1084	3.6	8.4651	9.0	0.0568	10.1	0.0039	0.5	0.05	25.2	0.1	56.1	5.5	1716.7	185.6	25.2	0.1	NA
Spot 9	673	1084	1.7	11.7300	5.1	0.0390	12.3	0.0039	0.7	0.06	25.2	0.2	38.8	4.7	988.0	250.2	25.2	0.2	NA
Spot 120	344	854	2.2	8.0648	10.8	0.0583	14.2	0.0039	0.6	0.04	25.3	0.1	57.6	8.0	1759.7	261.6	25.3	0.1	NA
Spot 107	895	1930	3.2	12.6436	5.4	0.0387	7.0	0.0039	0.5	0.07	25.3	0.1	38.6	2.7	970.9	142.9	25.3	0.1	NA
Spot 91	1631	3087	2.2	16.0057	2.7	0.0312	4.2	0.0039	0.7	0.17	25.3	0.2	31.2	1.3	515.9	90.4	25.3	0.2	NA
Spot 86	673	2028	1.6	10.8746	5.2	0.0460	6.2	0.0039	0.7	0.11	25.3	0.2	45.7	2.8	1311.3	119.5	25.3	0.2	NA
Spot 11	581	1477	3.1	10.8894	5.9	0.0445	7.5	0.0039	0.6	0.08	25.3	0.1	44.2	3.2	1247.0	146.0	25.3	0.1	NA
Spot 115	447	1164	2.2	11.9196	6.6	0.0388	10.8	0.0039	0.5	0.05	25.4	0.1	38.6	4.1	965.8	221.1	25.4	0.1	NA
Spot 52	1357	3107	2.2	15.2889	2.7	0.0330	3.5	0.0039	0.5	0.14	25.4	0.1	32.9	1.1	622.4	75.1	25.4	0.1	NA
Spot 1	4668	12840	2.3	19.3322	1.2	0.0275	1.9	0.0039	0.5	0.26	25.4	0.1	27.6	0.5	220.4	41.4	25.4	0.1	NA
Spot 43	374	204	2.5	6.4529	9.7	0.0468	17.4	0.0040	0.6	0.03	25.5	0.1	46.5	7.9	1329.7	338.3	25.5	0.1	NA
Spot 36	1488	3193	1.0	14.3532	3.6	0.0355	5.3	0.0040	0.5	0.09	25.5	0.1	35.5	1.9	773.2	111.7	25.5	0.1	NA
Spot 104	2535	6729	3.4	17.4284	2.6	0.0302	4.4	0.0040	0.6	0.14	25.6	0.2	30.2	1.3	414.2	98.1	25.6	0.2	NA
Spot 48	504	447	1.9	9.1400	7.3	0.0429	21.1	0.0040	0.6	0.03	25.9	0.2	42.6	8.8	1130.1	424.0	25.9	0.2	NA
Spot 46	868	1223	1.3	12.2821	4.9	0.0393	17.5	0.0041	0.6	0.03	26.4	0.2	39.1	6.7	911.8	361.9	26.4	0.2	NA
Spot 40	795	2240	2.0	12.1983	5.3	0.0445	7.3	0.0043	0.5	0.07	27.6	0.1	44.2	3.1	1078.4	145.8	27.6	0.1	NA
Spot 58	1874	6006	2.0	17.4042	2.2	0.0328	4.6	0.0043	0.8	0.17	27.9	0.2	32.8	1.5	404.7	100.8	27.9	0.2	NA
Spot 116	156	214	2.0	4.6234	13.7	0.1025	30.0	0.0048	0.5	0.02	30.6	0.2	99.1	28.3	2415.3	52			

Spot 74	167	4764	1.3	16.6087	2.5	0.1988	4.5	0.0253	0.5	0.12	161.4	0.8	184.1	7.6	487.5	98.9	161	0.8	NA
Spot 133	584	19577	1.7	19.1722	1.1	0.1789	1.4	0.0254	0.5	0.38	161.4	0.9	167.1	2.2	248.7	29.8	161	0.9	NA
Spot 16	453	13755	2.1	18.8605	1.4	0.1818	2.0	0.0254	0.5	0.28	161.6	0.9	169.6	3.1	283.4	43.1	162	0.9	NA
Spot 13	302	7824	2.0	17.8460	1.8	0.1900	2.8	0.0254	0.7	0.26	162.0	1.2	176.7	4.6	377.9	61.6	162	1.2	NA
Spot 21	543	15527	0.6	19.1583	1.2	0.1799	1.3	0.0255	0.5	0.39	162.1	0.8	168.0	2.1	252.2	28.1	162	0.8	NA
Spot 140	200	4670	1.6	16.8077	2.7	0.1977	4.7	0.0256	0.6	0.12	162.8	0.9	183.2	7.9	455.4	103.2	163	0.9	NA
Spot 116	135	4065	1.7	15.7169	2.7	0.2116	3.9	0.0256	0.6	0.16	162.8	1.0	194.9	6.8	603.9	82.4	163	1.0	NA
Spot 75	584	11913	1.1	19.2189	1.1	0.1784	1.9	0.0256	0.5	0.27	162.9	0.8	166.7	2.9	221.6	42.5	163	0.8	NA
Spot 82	374	11430	2.6	18.2325	1.5	0.1881	2.9	0.0256	0.6	0.21	162.9	1.0	175.0	4.6	341.7	63.8	163	1.0	NA
Spot 44	201	4721	1.4	16.5304	2.7	0.2021	5.2	0.0256	0.4	0.09	163.0	0.7	186.9	8.9	500.6	114.0	163	0.7	NA
Spot 79	163	4077	1.3	15.7745	3.2	0.2104	3.8	0.0256	0.7	0.17	163.0	1.1	193.9	6.7	588.2	81.2	163	1.1	NA
Spot 111	76	1999	2.0	12.0122	4.4	0.2690	7.0	0.0256	0.6	0.09	163.0	1.0	241.9	15.1	1099.5	140.0	163	1.0	NA
Spot 141	278	7157	2.2	18.5736	1.9	0.1822	2.2	0.0256	0.5	0.24	163.2	0.9	169.9	3.5	264.7	50.1	163	0.9	NA
Spot 87	341	6414	2.0	17.9123	1.6	0.1885	4.4	0.0256	0.6	0.13	163.3	0.9	175.3	7.2	341.2	100.0	163	0.9	NA
Spot 36	377	10090	1.8	19.0352	1.4	0.1808	1.8	0.0257	0.6	0.35	163.5	1.0	168.8	2.8	243.1	38.8	164	1.0	NA
Spot 23	135	1301	2.4	13.4499	3.2	0.2241	6.6	0.0257	0.6	0.09	163.7	1.0	205.3	12.3	714.9	140.1	164	1.0	NA
Spot 31	391	10669	2.0	18.3686	1.4	0.1883	1.8	0.0257	0.5	0.28	163.8	0.8	175.1	3.0	331.2	40.0	164	0.8	NA
Spot 86	538	14324	1.8	18.8723	1.3	0.1838	1.7	0.0258	0.9	0.50	164.0	1.4	171.3	2.7	273.1	33.7	164	1.4	NA
Spot 84	364	8735	2.3	18.6097	1.7	0.1846	2.5	0.0258	0.7	0.29	164.4	1.2	172.0	4.0	277.2	55.7	164	1.2	NA
Spot 119	551	13593	2.9	19.2839	1.0	0.1804	2.1	0.0259	0.5	0.22	164.6	0.8	168.4	3.2	223.3	46.4	165	0.8	NA
Spot 132	661	18436	1.5	19.2577	1.2	0.1818	1.5	0.0259	0.6	0.39	164.8	1.0	169.6	2.3	237.2	31.9	165	1.0	NA
Spot 7	322	9532	1.6	18.6750	1.4	0.1859	2.5	0.0260	0.5	0.19	165.2	0.8	173.2	4.0	283.0	57.0	165	0.8	NA
Spot 72	531	4188	1.4	17.9670	1.4	0.1858	5.7	0.0260	0.6	0.11	165.2	1.0	173.1	9.0	281.7	129.4	165	1.0	NA
Spot 34	513	12484	1.6	18.7704	1.3	0.1865	2.6	0.0260	0.7	0.25	165.3	1.1	173.6	4.2	288.5	58.3	165	1.1	NA
Spot 129	329	9639	2.0	17.7589	1.8	0.1955	2.2	0.0260	0.5	0.24	165.4	0.9	181.3	3.6	394.5	47.6	165	0.9	NA
Spot 91	504	14891	1.9	18.9823	1.1	0.1849	1.5	0.0260	0.6	0.41	165.6	1.0	172.2	2.3	264.7	30.8	166	1.0	NA
Spot 77	266	7678	1.2	17.8734	2.0	0.1943	2.5	0.0262	0.5	0.21	166.6	0.9	180.3	4.2	363.0	55.7	167	0.9	NA
Spot 43	245	7271	2.3	17.7577	2.1	0.1962	3.3	0.0263	0.6	0.17	167.1	0.9	181.9	5.5	379.5	72.9	167	0.9	NA
Spot 150	302	8629	1.7	17.9655	1.7	0.1966	2.4	0.0265	0.5	0.22	168.9	0.9	182.2	4.1	358.7	53.6	169	0.9	NA
Spot 25	273	8202	0.8	17.3283	2.0	0.2049	2.5	0.0266	0.6	0.22	169.2	0.9	189.2	4.4	447.4	55.2	169	0.9	NA
Spot 95	219	5644	2.8	17.1003	2.0	0.2053	4.9	0.0266	0.6	0.12	169.5	1.0	189.6	8.5	447.4	108.8	170	1.0	NA
Spot 22	228	5973	0.9	18.1468	2.0	0.1936	2.6	0.0267	0.6	0.22	169.7	0.9	179.7	4.2	313.9	57.3	170	0.9	NA
Spot 10	251	7416	1.9	17.8611	1.9	0.1991	3.2	0.0268	0.6	0.18	170.3	1.0	184.4	5.4	369.3	71.0	170	1.0	NA
Spot 90	925	22228	1.9	19.5774	0.9	0.1857	1.2	0.0268	0.6	0.50	170.5	1.0	173.0	1.9	207.0	23.5	171	1.0	NA
Spot 131	333	11102	1.9	17.9519	1.7	0.2005	2.0	0.0268	0.6	0.29	170.8	1.0	185.5	3.5	377.8	44.1	171	1.0	NA
Spot 112	581	16036	1.5	19.2014	1.2	0.1896	1.8	0.0269	0.7	0.39	170.9	1.1	176.3	2.8	249.3	37.2	171	1.1	NA
Spot 49	314	9012	1.8	17.8961	1.7	0.2002	2.3	0.0269	0.6	0.26	170.9	1.0	185.3	3.9	373.2	50.4	171	1.0	NA
Spot 8	360	9582	1.6	18.7884	1.3	0.1914	2.7	0.0269	0.6	0.21	171.0	1.0	177.8	4.4	269.4	60.3	171	1.0	NA
Spot 92	187	1590	2.6	15.1365	2.6	0.2102	8.4	0.0269	0.6	0.08	171.0	1.1	193.8	14.7	480.7	184.3	171	1.1	NA
Spot 102	322	9481	1.9	18.5008	1.5	0.1953	2.2	0.0270	0.6	0.26	171.7	1.0	181.2	3.7	306.2	49.0	172	1.0	NA
Spot 144	789	25439	0.7	19.4679	0.9	0.1885	1.1	0.0270	0.4	0.39	172.0	0.8	175.3	1.8	219.7	24.4	172	0.8	NA
Spot 57	720	20225	1.0	19.3877	0.9	0.1890	1.5	0.0271	0.5	0.34	172.4	0.8	175.8	2.3	222.6	31.5	172	0.8	NA
Spot 28	211	6375	2.7	17.0194	2.3	0.2111	3.1	0.0271	0.5	0.15	172.5	0.8	194.4	5.4	470.2	67.4	172	0.8	NA
Spot 123	192	5927	2.5	16.4908	2.8	0.2168	3.2	0.0271	0.5	0.16	172.5	0.8	199.2	5.7	528.9	68.7	172	0.8	NA
Spot 47	117	3691	1.7	15.3628	2.8	0.2283	5.2	0.0272	0.7	0.14	172.7	1.2	208.8	9.8	638.5	110.8	173	1.2	NA
Spot 51	426	13573	1.6	18.7737	1.4	0.1959	1.7	0.0273	0.5	0.31	173.8	0.9	181.6	2.8	285.0	36.5	174	0.9	NA
Spot 76	382	12938	1.9	18.8099	1.4	0.1954	2.0	0.0274	0.5	0.27	174.0	0.9	181.2	3.3	276.8	43.8	174	0.9	NA
Spot 48	227	7233	2.2	17.1243	2.4	0.2121	4.0	0.0274	0.6	0.14	174.1	0.9	195.3	7.2	459.6	88.6	174	0.9	NA
Spot 18	371	11719	1.8	18.3646	1.6	0.2010	2.5	0.0274	0.6	0.23	174.1	1.0	185.9	4.2	338.4	54.5	174	1.0	NA
Spot 103	331	6863	1.7	18.3990	1.8	0.1970	3.2	0.0274	0.5	0.17	174.2	0.9	182.6	5.4	293.1	72.7	174	0.9	NA
Spot 41	448	13509	0.8	18.8632	1.4	0.1960	2.3	0.0274	0.9	0.39	174.2	1.6	181.7	3.9	281.0	49.2	174	1.6	NA
Spot 17	394	10018	2.0	18.4166	1.4	0.1998	1.8	0.0274	0.5	0.29	174.4	0.9	185.0	3.0	321.8	38.5	174	0.9	NA
Spot 81	139	4488	2.1	14.5089	3.6	0.2476	5.2	0.0275	0.6	0.12	174.6	1.1	224.6	10.4	787.4	107.8	175	1.1	NA
Spot 14	359	11328	1.7	18.4587	1.5	0.2003	2.6	0.0275	0.6	0.22	174.7	1.0	185.4	4.3	323.7	56.6	175	1.0	NA
Spot 115	348	11580	1.8	18.4954	1.5	0.1999	2.1	0.0275	0.8	0.40	174.8	1.5	185.1	3.6	318.6	43.9	175	1.5	NA
Spot 136	251	7598	2.3	18.0059	2.1	0.2026	4.1	0.0275	0.6	0.13	175.1	1.0	187.3	7.1	343.7	93.0	175	1.0	NA
Spot 64	117	3751	1.7	16.0222	3.0	0.2217	4.9	0.0276	0.6	0.12	175.5	1.0	203.3	9.1	539.8	106.9	175	1.0	NA
Spot 35	205	6047	1.6	17.0361	2.8	0.2142	4.1	0.0276	0.7	0.18	175.6	1.3	197.1	7.4	462.5	90.4	176	1.3	NA
Spot 53	842	26029	1.4	19.8377	0.9	0.1891	1.3	0.0276	0.6	0.41	175.6	1.0	175.8	2.2	178.5	28.3	176	1.0	NA
Spot 114	245	5883	2.1	17.5030	1.9	0.2082	4.0	0.0277	0.6	0.14	175.9	1.0	192.1	7.0	396.2	88.4	176	1.0	NA
Spot 88	323	10961	1.7	18.4091	1.4	0.2016	1.7	0.0277	0.6	0.34	176.0	1.0	186.4	2.9	321.0	36.2	176	1.0	NA
Spot 63	253	7796	2.9	17.2232	2.0	0.2136	3.9	0.0277	0.5	0.14	176.2	0.9	196.6	6.9	449.1	85.1	176	0.9	NA
Spot 117	180	5471	1.8	16.0868	2.8	0.2291	3.6	0.0279	0.7	0.18	177.6	1.1	209.4	6.8	584.1	76.7	178	1.1	NA
Spot 124	154	4572	2.7	15.9064	2.6	0.2296	4.1	0.0280	0.6	0.15	177.9	1.1	209.9	7.8	585.5	87.7	178	1.1	NA
Spot 104	389	6646	1.6	18.5140	1.6	0.2010	3.6	0.0281	0.6	0.17	178.8	1.1	186.0	6.1	278.3	80.3	179	1.1	NA
Spot 61	1176	39778	2.0	19.8446	0.9	0.1934	1.3	0.0282	0.8	0.58	179.2	1.4	179.6	2.2	184.4	25.2	179	1.4	NA
Spot 38	290	7575	1.1	17.9013	2.1	0.2092	2.5	0.0282	0.6	0.25	179.2	1.1	192.9	4.3	364				

Spot 24	561	2600	3.3	17.0404	1.9	0.2617	10.4	0.0358	0.6	0.05	226.8	1.3	236.0	22.0	328.9	236.7	227	1.3	NA
Spot 89	446	18930	3.7	18.8081	1.1	0.2591	1.5	0.0360	0.6	0.43	227.9	1.4	233.9	3.1	295.5	30.2	228	1.4	NA
Spot 118	338	15099	3.4	18.6300	1.3	0.2612	1.8	0.0360	0.6	0.35	228.0	1.4	235.6	3.8	312.2	38.2	228	1.4	NA
Spot 4	378	15355	4.0	18.7166	1.0	0.2605	1.5	0.0361	0.5	0.35	228.3	1.2	235.1	3.2	303.3	32.9	228	1.2	NA
Spot 128	1658	69605	2.2	19.5839	0.8	0.2526	1.1	0.0361	0.7	0.66	228.9	1.7	228.7	2.3	226.2	19.1	229	1.7	NA
Spot 139	501	20043	2.7	19.1412	1.1	0.2587	1.4	0.0366	0.6	0.45	231.8	1.4	233.6	2.9	251.7	28.9	232	1.4	NA
Spot 65	651	25837	2.7	19.4102	1.2	0.2571	1.9	0.0368	1.0	0.55	232.8	2.4	232.3	4.0	228.0	37.0	233	2.4	NA
Spot 113	790	28025	2.8	19.6279	0.8	0.2559	1.1	0.0368	0.5	0.51	233.2	1.2	231.4	2.2	213.4	21.3	233	1.2	NA
Spot 6	765	29008	2.9	19.5157	0.7	0.2575	1.1	0.0369	0.5	0.44	233.3	1.1	232.7	2.3	225.9	22.8	233	1.1	NA
Spot 98	1020	39079	1.4	19.3668	0.8	0.2716	1.1	0.0385	0.6	0.55	243.4	1.4	243.9	2.4	249.2	21.1	243	1.4	NA
Spot 99	297	13177	2.5	18.7338	1.3	0.3045	2.1	0.0423	0.5	0.26	267.0	1.4	269.9	5.0	295.8	46.6	267	1.4	NA
Spot 58	407	12266	3.9	10.6370	1.1	0.5602	1.3	0.0439	0.5	0.37	277.1	1.3	451.7	4.8	1477.9	23.3	277	1.3	NA
Spot 3	24	3765	2.0	12.7922	2.8	1.8117	4.0	0.1768	0.6	0.15	1049.7	5.7	1049.7	26.2	1049.8	79.8	1050	79.8	100
Spot 67	145	29115	2.5	13.1076	0.7	1.9114	1.0	0.1837	0.5	0.55	1087.3	5.5	1085.1	6.7	1080.7	16.8	1081	16.8	101
Spot 56	385	69513	6.9	13.0792	0.7	1.9095	0.9	0.1825	0.6	0.68	1080.8	6.2	1084.4	6.1	1091.7	13.5	1092	13.5	99
Spot 5	67	13454	4.0	12.0002	1.0	2.4155	1.7	0.2132	0.7	0.38	1245.7	7.5	1247.2	12.4	1249.9	31.2	1250	31.2	100
Spot 127	88	20293	3.0	11.3224	0.7	2.8522	0.9	0.2368	0.5	0.57	1370.1	6.4	1369.4	6.8	1368.3	14.3	1368	14.3	100
Spot 94	94	23676	1.6	11.3168	0.8	2.8942	1.2	0.2392	0.7	0.56	1382.6	8.5	1380.4	9.2	1376.9	19.3	1377	19.3	100
Spot 137	163	49914	3.6	10.8736	0.7	3.1481	0.9	0.2502	0.6	0.66	1439.8	7.7	1444.5	6.9	1451.6	12.9	1452	12.9	99
Spot 106	194	55863	3.7	10.1072	0.6	3.8307	0.9	0.2813	0.6	0.69	1598.1	8.8	1599.2	7.2	1600.7	12.2	1601	12.2	100
Spot 60	234	71220	2.0	9.1677	0.6	4.8071	0.9	0.3218	0.6	0.68	1798.5	9.4	1786.1	7.4	1771.8	11.7	1772	11.7	102
Spot 46	97	30762	1.7	9.1571	0.7	4.7457	1.0	0.3174	0.7	0.66	1777.1	10.3	1775.3	8.4	1773.2	13.9	1773	13.9	100
Spot 66	22	7789	6.3	8.9629	1.2	4.9326	1.9	0.3272	0.5	0.26	1824.9	8.2	1807.8	16.4	1788.2	34.0	1788	34.0	102
Spot 85	196	14027	6.3	8.7687	0.6	4.9998	0.9	0.3222	0.6	0.69	1800.4	9.4	1819.3	7.3	1841.0	11.3	1841	11.3	98
Spot 59	80	26783	2.2	8.6459	0.6	5.3714	0.8	0.3400	0.6	0.66	1886.6	9.1	1880.3	7.2	1873.4	11.5	1873	11.5	101

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Spot 72	167	665	1.1	7.0226	13.7	0.0002	17.0	0.0000	0.6	0.03	0.1	0.0	0.2	0.0	1984.9	303.9	0.1	0.0	NA
Spot 23	127	238	1.2	5.4222	11.6	0.0263	25.5	0.0015	0.5	0.02	9.6	0.1	26.3	6.6	2074.1	456.1	9.6	0.1	NA
Spot 37	68	187	0.6	4.0972	23.7	0.0412	29.8	0.0017	0.5	0.02	10.9	0.1	41.0	12.0	2628.9	507.6	10.9	0.1	NA
Spot 92	132	105	0.9	4.4670	12.0	0.0210	70.1	0.0017	0.6	0.01	10.9	0.1	21.1	14.6	1430.7	1575.2	10.9	0.1	NA
Spot 90	64	180	0.9	5.9465	19.4	0.0224	83.4	0.0018	0.6	0.01	11.6	0.1	22.5	18.6	1433.8	2103.4	11.6	0.1	NA
Spot 34	112	295	0.8	4.6642	15.8	0.0434	25.1	0.0018	0.5	0.02	11.8	0.1	43.2	10.6	2573.8	427.2	11.8	0.1	NA
Spot 112	44	146	0.9	4.4217	23.1	0.0346	60.3	0.0019	0.8	0.01	11.9	0.1	34.6	20.5	2171.1	1181.6	11.9	0.1	NA
Spot 125	65	149	0.6	5.4790	18.7	0.0228	85.5	0.0019	0.6	0.01	12.1	0.1	22.9	19.3	1380.6	NA	12.1	0.1	NA
Spot 27	86	216	0.6	4.9801	17.5	0.0369	25.9	0.0019	0.5	0.02	12.3	0.1	36.8	9.4	2227.6	457.6	12.3	0.1	NA
Spot 69	66	162	0.8	4.0755	18.0	0.0443	26.5	0.0019	0.7	0.03	12.4	0.1	44.0	11.4	2533.6	454.0	12.4	0.1	NA
Spot 91	102	140	1.0	3.7471	15.3	0.0479	51.5	0.0020	0.6	0.01	12.6	0.1	47.5	23.9	2633.8	929.5	12.6	0.1	NA
Spot 57	26	119	0.8	3.7731	26.8	0.0428	42.9	0.0020	0.4	0.01	12.7	0.1	42.6	17.9	2434.0	767.3	12.7	0.1	NA
Spot 98	26	135	1.1	3.9263	32.5	0.0435	61.3	0.0020	0.5	0.01	12.7	0.1	43.2	26.0	2459.1	1174.8	12.7	0.1	NA
Spot 79	75	196	0.9	3.6965	19.2	0.0583	29.3	0.0020	0.5	0.02	13.0	0.1	57.5	16.4	2905.3	486.1	13.0	0.1	NA
Spot 143	51	174	0.7	3.8679	25.3	0.0523	41.9	0.0020	0.6	0.01	13.0	0.1	51.8	21.1	2726.5	727.5	13.0	0.1	NA
Spot 33	123	279	2.1	4.5420	18.0	0.0488	26.8	0.0020	0.7	0.02	13.0	0.1	48.4	12.7	2608.0	455.6	13.0	0.1	NA
Spot 3	131	298	1.8	4.3896	13.2	0.0527	16.8	0.0021	0.5	0.03	13.2	0.1	52.2	8.5	2709.6	278.5	13.2	0.1	NA
Spot 64	67	202	1.0	4.5903	23.8	0.0438	45.0	0.0021	0.5	0.01	13.3	0.1	43.6	19.2	2395.4	814.4	13.3	0.1	NA
Spot 22	396	278	0.6	6.8311	10.8	0.0274	33.2	0.0021	1.1	0.03	13.3	0.1	27.4	9.0	1553.3	642.2	13.3	0.1	NA
Spot 41	300	678	0.9	6.0158	14.5	0.0422	17.0	0.0021	4.0	0.23	13.4	0.5	41.9	7.0	2306.9	285.5	13.4	0.5	NA
Spot 86	64	180	0.6	5.0567	25.6	0.0356	43.6	0.0021	0.9	0.02	13.5	0.1	35.5	15.2	2004.2	817.0	13.5	0.1	NA
Spot 45	121	294	0.8	3.9556	18.4	0.0624	25.2	0.0021	0.6	0.02	13.7	0.1	61.5	15.0	2923.5	415.0	13.7	0.1	NA
Spot 83	66	222	0.6	4.1614	18.0	0.0547	23.4	0.0021	0.6	0.03	13.8	0.1	54.1	12.3	2696.4	392.3	13.8	0.1	NA
Spot 97	94	191	0.8	4.7479	18.4	0.0423	34.6	0.0022	0.6	0.02	13.9	0.1	42.1	14.3	2251.1	617.5	13.9	0.1	NA
Spot 1	63	172	0.4	4.0447	18.1	0.0526	33.2	0.0022	0.6	0.02	14.1	0.1	52.0	16.8	2601.8	571.7	14.1	0.1	NA
Spot 77	250	513	0.7	5.8365	9.4	0.0439	14.6	0.0022	1.1	0.07	14.1	0.2	43.6	6.2	2295.9	251.2	14.1	0.2	NA
Spot 32	138	296	0.8	4.5471	13.9	0.0536	21.0	0.0022	0.5	0.02	14.1	0.1	53.0	10.9	2630.8	353.7	14.1	0.1	NA
Spot 81	291	608	1.4	7.3359	9.9	0.0343	12.1	0.0022	0.5	0.04	14.1	0.1	34.3	4.1	1859.5	220.0	14.1	0.1	NA
Spot 26	114	253	1.2	4.1259	14.3	0.0586	17.2	0.0022	0.5	0.03	14.1	0.1	57.9	9.7	2777.8	285.0	14.1	0.1	NA
Spot 29	78	214	1.0	4.0567	20.2	0.0573	34.0	0.0022	0.6	0.02	14.1	0.1	56.6	18.7	2736.2	578.5	14.1	0.1	NA
Spot 96	83	234	0.6	5.0538	16.1	0.0430	35.9	0.0022	0.6	0.02	14.2	0.1	42.8	15.0	2247.8	643.7	14.2	0.1	NA
Spot 49	130	299	0.5	4.5486	14.5	0.0544	16.5	0.0022	0.5	0.03	14.3	0.1	53.8	8.7	2637.3	276.8	14.3	0.1	NA
Spot 20	104	275	0.7	5.5391	14.3	0.0404	19.9	0.0022	0.5	0.03	14.3	0.1	40.2	7.8	2125.5	352.4	14.3	0.1	NA
Spot 114	334	238	0.8	6.4239	8.6	0.0296	45.7	0.0022	0.5	0.01	14.3	0.1	29.7	13.4	1564.1	908.2	14.3	0.1	NA
Spot 15	75	220	1.2	4.6927	16.4	0.0473	36.4	0.0022	0.6	0.02	14.3	0.1	46.9	16.7	2396.5	643.5	14.3	0.1	NA
Spot 147	139	319	0.6	4.8730	17.0	0.0508	19.7	0.0022	0.7	0.03	14.4	0.1	50.3	9.7	2509.4	334.8	14.4	0.1	NA
Spot 76	368	705	0.8	7.7759	9.1	0.0336	11.4	0.0022	0.5	0.05	14.4	0.1	33.5	3.8	1781.8	208.8	14.4	0.1	NA
Spot 30	155	354	0.6	5.2423	12.8	0.0476	17.5	0.0022	0.8	0.05	14.4	0.1	47.2	8.1	2392.0	299.6	14.4	0.1	NA
Spot 44	54	177	0.8	4.0413	31.6	0.0551	41.6	0.0023	0.5	0.01	14.5	0.1	54.4	22.1	2627.5	729.2	14.5	0.1	NA
Spot 150	134	353	0.9	4.9772	13.7	0.0512	16.4	0.0023	0.6	0.04	14.5	0.1	50.7	8.1	2503.6	277.3	14.5	0.1	NA
Spot 58	309	818	0.7	6.3663	11.1	0.0438	11.5	0.0023	0.6	0.05	14.5	0.1	43.5	4.9	2236.6	200.0	14.5	0.1	NA
Spot 133	176	422	0.8	6.5484	15.8	0.0375	21.4	0.0023	0.5	0.03	14.6	0.1	37.4	7.8	1960.7	385.9	14.6	0.1	NA
Spot 74	283	684	0.6	8.4521	8.9	0.0305	11.6	0.0023	0.6	0.05	14.6	0.1	30.5	3.5	1582.6	217.7	14.6	0.1	NA
Spot 55	289	634	0.7	7.0401	10.1	0.0379	17.2	0.0023	0.6	0.03	14.7	0.1	37.7	6.4	1964.9	308.7	14.7	0.1	NA
Spot 117	347	779	0.7	8.2834	10.1	0.0322	16.6	0.0023	0.6	0.04	14.7	0.1	32.2	5.3	1669.3	309.9	14.7	0.1	NA
Spot 40	109	292	0.5	4.6094	20.7	0.0547	23.5	0.0023	0.5	0.02	14.7	0.1	54.1	12.4	2594.0	397.3	14.7	0.1	NA
Spot 131	93	261	0.5	4.4880	16.4	0.0550	19.2	0.0023	0.6	0.03	14.7	0.1	54.4	10.2	2600.2	323.0	14.7	0.1	NA
Spot 62	52	162	0.9	3.6376	22.5	0.0635	30.0	0.0023	0.6	0.02	14.7	0.1	62.5	18.2	2833.8	501.9	14.7	0.1	NA
Spot 108	281	289	0.8	6.2265	9.2	0.0358	38.6	0.0023	0.6	0.01	14.8	0.1	35.7	13.5	1849.5	727.9	14.8	0.1	NA
Spot 126	219	386	0.6	5.8861	13.1	0.0428	17.4	0.0023	0.5	0.03	14.8	0.1	42.6	7.3	2164.7	305.7	14.8	0.1	NA
Spot 73	378	860	0.8	8.1509	7.6	0.0338	13.2	0.0023	0.5	0.04	14.8	0.1	33.7	4.4	1740.1	242.2	14.8	0.1	NA
Spot 87	161	414	0.9	4.8131	18.1	0.0563	21.8	0.0023	0.6	0.03	14.8	0.1	55.6	11.8	2627.9	366.6	14.8	0.1	NA
Spot 132	289	656	0.5	7.3123	12.4	0.0367	13.6	0.0023	0.5	0.04	14.8	0.1	36.6	4.9	1888.3	245.3	14.8	0.1	NA
Spot 39	276	699	0.4	7.5666	10.8	0.0357	14.4	0.0023	0.5	0.04	14.8	0.1	35.6	5.0	1837.7	261.2	14.8	0.1	NA
Spot 47	228	686	1.3	5.9237	11.7	0.0475	13.2	0.0023	0.5	0.04	14.8	0.1	47.2	6.1	2341.1	227.2	14.8	0.1	NA
Spot 52	235	506	0.6	6.2477	13.6	0.0426	22.3	0.0023	0.5	0.02	14.9	0.1	42.4	9.3	2149.1	395.1	14.9	0.1	NA
Spot 75	179	429	0.7	4.7850	15.8	0.0573	21.0	0.0023	0.7	0.03	14.9	0.1	56.5	11.6	2651.2	353.2	14.9	0.1	NA
Spot 35	56	244	0.6	3.9583	25.2	0.0648	27.1	0.0023	0.6	0.02	14.9	0.1	63.7	16.7	2853.1	450.9	14.9	0.1	NA
Spot 10	114	328	1.4	4.8528	16.2	0.0533	24.4	0.0023	0.6	0.02	14.9	0.1	52.7	12.5	2530.9	415.6	14.9	0.1	NA
Spot 54	250	580	0.3	6.1026	9.3	0.0450	10.3	0.0023	0.5	0.05	14.9	0.1	44.7	4.5	2239.9	178.6	14.9	0.1	NA
Spot 116	322	815	1.0	7.5031	10.4	0.0371	15.5	0.0023	0.6	0.04	14.9	0.1	37.0	5.6	1896.2	280.9	14.9	0.1	NA
Spot 84	258	562	0.8	7.2574	10.0	0.0363	15.9	0.0023	0.5	0.03	15.0	0.1	36.2	5.7	1853.3	289.4	15.0	0.1	NA
Spot 38	220	664	1.0	5.9205	13.8	0.0478	15.9	0.0023	0.6	0.04	15.0	0.1	47.4	7.4	2344.4	274.3	15.0	0.1	NA
Spot 48	352	886	0.4	7.6750	8.1	0.0368	13.5	0.0023	1.3	0.09	15.0	0.2	36.7	4.9	1876.3	244.2	15.0	0.2	NA
Spot 59	168	375	0.7	4.8124	14.5	0.0560	16.4	0.0023	0.7	0.04	15.0	0.1	55.3	8.8	2599.0	274.8	15.0	0.1	NA
Spot 142	240	534	1.0	6.5207	15.7	0.0411	23.1	0.0023	0.6	0.02	15.0	0.1	40.9	9.3	2070.0	412.9	15.0	0.1	NA
Spot 134	727	1703	1.0	10.6941	6.1	0.0273	10.9	0.0023	0.5	0.05	15.0	0.1	27.3	2.9	1312.5	212.2	15.0	0.1	NA
Spot 102	100	280	0.8	3.8352	16.2	0.0705	18.2	0.0023	0.6	0.03	15.1								

Spot 127	224	657	0.8	5.9871	11.5	0.0473	16.3	0.0023	0.6	0.04	15.1	0.1	47.0	7.5	2305.4	281.0	15.1	0.1	NA
Spot 119	184	513	0.7	5.9022	13.6	0.0463	16.1	0.0023	0.6	0.04	15.1	0.1	46.0	7.2	2266.3	278.9	15.1	0.1	NA
Spot 121	284	649	0.9	6.6772	11.7	0.0416	14.1	0.0023	0.6	0.04	15.1	0.1	41.4	5.7	2077.6	249.1	15.1	0.1	NA
Spot 42	474	1320	1.4	10.0680	7.6	0.0286	13.5	0.0024	0.5	0.04	15.1	0.1	28.7	3.8	1390.6	259.1	15.1	0.1	NA
Spot 129	556	1364	1.0	10.5238	6.4	0.0274	7.1	0.0024	0.8	0.12	15.2	0.1	27.4	1.9	1297.6	138.0	15.2	0.1	NA
Spot 36	194	595	0.7	5.6139	12.5	0.0509	15.9	0.0024	0.5	0.03	15.2	0.1	50.4	7.8	2415.1	270.9	15.2	0.1	NA
Spot 109	380	554	1.3	8.3258	11.2	0.0309	18.0	0.0024	0.5	0.03	15.3	0.1	30.9	5.5	1517.9	342.9	15.3	0.1	NA
Spot 88	275	674	0.8	6.5067	12.7	0.0437	13.8	0.0024	0.5	0.03	15.3	0.1	43.5	5.9	2146.7	242.2	15.3	0.1	NA
Spot 5	331	725	0.8	8.2019	10.0	0.0336	16.0	0.0024	0.6	0.04	15.3	0.1	33.6	5.3	1671.7	297.6	15.3	0.1	NA
Spot 138	254	663	0.9	5.9980	13.9	0.0480	16.3	0.0024	0.6	0.04	15.3	0.1	47.6	7.6	2306.7	281.4	15.3	0.1	NA
Spot 137	490	1141	0.5	9.9259	7.5	0.0289	8.9	0.0024	0.6	0.07	15.3	0.1	28.9	2.5	1384.1	170.5	15.3	0.1	NA
Spot 80	254	593	0.9	6.7683	8.7	0.0410	13.6	0.0024	0.6	0.05	15.3	0.1	40.8	5.5	2027.3	242.5	15.3	0.1	NA
Spot 71	292	699	0.8	8.1503	8.5	0.0337	11.0	0.0024	0.6	0.06	15.3	0.1	33.7	3.6	1674.3	203.8	15.3	0.1	NA
Spot 124	213	527	1.5	6.3245	10.0	0.0435	20.0	0.0024	0.6	0.03	15.4	0.1	43.2	8.5	2128.8	354.3	15.4	0.1	NA
Spot 105	301	795	0.5	7.5407	11.2	0.0378	16.2	0.0024	0.9	0.05	15.4	0.1	37.7	6.0	1880.0	292.8	15.4	0.1	NA
Spot 113	144	365	1.0	4.8255	20.0	0.0566	23.5	0.0024	0.6	0.02	15.4	0.1	55.9	12.8	2579.3	398.3	15.4	0.1	NA
Spot 111	266	676	0.5	7.5579	11.1	0.0367	19.9	0.0024	0.5	0.03	15.4	0.1	36.6	7.1	1825.5	364.1	15.4	0.1	NA
Spot 21	430	929	0.9	10.9146	5.9	0.0251	18.9	0.0024	0.6	0.03	15.4	0.1	25.1	4.7	1095.5	381.7	15.4	0.1	NA
Spot 99	276	808	1.1	5.8719	10.2	0.0507	13.0	0.0024	0.6	0.05	15.4	0.1	50.2	6.3	2388.1	221.3	15.4	0.1	NA
Spot 115	461	855	0.9	10.5870	6.5	0.0255	10.8	0.0024	0.5	0.05	15.4	0.1	25.6	2.7	1130.7	214.6	15.4	0.1	NA
Spot 2	421	1009	0.8	7.7541	8.7	0.0381	10.9	0.0024	0.6	0.06	15.4	0.1	37.9	4.1	1881.7	197.1	15.4	0.1	NA
Spot 11	146	285	0.7	5.3021	15.7	0.0471	26.8	0.0024	0.6	0.02	15.4	0.1	46.7	12.3	2256.2	472.5	15.4	0.1	NA
Spot 139	392	1191	0.7	7.9564	7.4	0.0377	8.3	0.0024	0.6	0.07	15.5	0.1	37.5	3.1	1861.1	149.7	15.5	0.1	NA
Spot 4	362	1074	1.0	7.7064	8.8	0.0387	9.5	0.0024	0.5	0.05	15.5	0.1	38.5	3.6	1907.6	170.2	15.5	0.1	NA
Spot 107	344	725	0.7	8.3439	8.0	0.0333	10.0	0.0024	0.6	0.06	15.5	0.1	33.2	3.3	1629.8	185.5	15.5	0.1	NA
Spot 118	235	297	0.9	5.3851	12.2	0.0468	29.2	0.0024	0.6	0.02	15.5	0.1	46.4	13.3	2239.7	517.3	15.5	0.1	NA
Spot 110	211	562	0.8	6.4464	12.3	0.0434	16.0	0.0024	0.6	0.04	15.5	0.1	43.1	6.8	2109.5	282.9	15.5	0.1	NA
Spot 46	173	462	1.7	5.2368	12.9	0.0541	17.7	0.0024	0.7	0.04	15.5	0.1	53.5	9.2	2488.6	300.7	15.5	0.1	NA
Spot 65	181	437	0.7	6.0296	10.3	0.0450	18.8	0.0024	0.5	0.02	15.5	0.1	44.7	8.2	2170.4	330.7	15.5	0.1	NA
Spot 63	581	1212	0.6	10.4010	5.6	0.0281	12.6	0.0024	0.6	0.05	15.5	0.1	28.1	3.5	1299.8	245.3	15.5	0.1	NA
Spot 25	319	739	0.9	8.4741	8.7	0.0330	17.0	0.0024	0.4	0.03	15.6	0.1	33.0	5.5	1605.0	319.7	15.6	0.1	NA
Spot 70	129	358	0.8	5.2802	18.0	0.0511	24.0	0.0024	0.6	0.02	15.6	0.1	50.6	11.8	2381.7	414.6	15.6	0.1	NA
Spot 9	660	872	0.5	9.8120	6.7	0.0286	12.3	0.0024	0.5	0.04	15.6	0.1	28.6	3.5	1326.1	239.2	15.6	0.1	NA
Spot 141	508	1134	0.7	11.5959	6.8	0.0245	11.3	0.0024	0.5	0.04	15.6	0.1	24.6	2.8	1022.2	230.1	15.6	0.1	NA
Spot 31	309	742	0.8	7.2541	9.5	0.0400	13.4	0.0024	0.4	0.03	15.6	0.1	39.8	5.2	1946.4	240.0	15.6	0.1	NA
Spot 144	256	756	0.5	5.7210	11.4	0.0528	12.8	0.0024	0.6	0.05	15.7	0.1	52.2	6.5	2427.9	217.6	15.7	0.1	NA
Spot 128	729	2006	0.6	12.0467	5.4	0.0253	7.9	0.0024	0.6	0.08	15.7	0.1	25.4	2.0	1081.0	158.7	15.7	0.1	NA
Spot 140	436	1261	1.4	10.8862	7.7	0.0269	10.5	0.0024	0.6	0.05	15.7	0.1	27.0	2.8	1203.6	207.7	15.7	0.1	NA
Spot 122	327	883	0.9	7.5541	9.9	0.0390	15.1	0.0024	0.6	0.04	15.7	0.1	38.9	5.7	1901.1	271.9	15.7	0.1	NA
Spot 100	71	174	0.7	4.8810	20.4	0.0431	28.7	0.0024	0.6	0.02	15.7	0.1	42.8	12.0	2073.1	517.0	15.7	0.1	NA
Spot 95	612	1489	0.7	11.3249	5.1	0.0264	9.0	0.0024	0.7	0.07	15.7	0.1	26.4	2.4	1158.3	178.9	15.7	0.1	NA
Spot 123	318	655	1.0	7.9538	10.2	0.0351	19.9	0.0024	0.5	0.02	15.7	0.1	35.0	6.9	1700.1	370.4	15.7	0.1	NA
Spot 130	1062	3027	0.4	14.0482	3.4	0.0223	5.2	0.0024	0.6	0.11	15.7	0.1	22.4	1.2	807.7	108.3	15.7	0.1	NA
Spot 106	264	639	0.7	6.8776	9.8	0.0418	11.8	0.0024	0.6	0.05	15.8	0.1	41.6	4.8	2012.6	209.9	15.8	0.1	NA
Spot 104	98	282	0.5	4.2847	20.7	0.0639	25.5	0.0024	0.6	0.02	15.8	0.1	62.9	15.5	2738.1	426.8	15.8	0.1	NA
Spot 103	171	426	0.6	6.3242	11.6	0.0427	21.8	0.0025	0.6	0.03	15.8	0.1	42.5	9.1	2047.4	389.8	15.8	0.1	NA
Spot 85	451	1126	0.9	7.6525	8.6	0.0400	9.9	0.0025	0.7	0.07	15.8	0.1	39.8	3.9	1931.0	177.2	15.8	0.1	NA
Spot 68	318	840	0.6	7.8413	11.8	0.0376	18.0	0.0025	0.5	0.03	15.8	0.1	37.5	6.6	1817.3	329.6	15.8	0.1	NA
Spot 149	246	694	0.7	6.8094	9.5	0.0431	10.8	0.0025	0.6	0.05	15.8	0.1	42.8	4.5	2060.0	191.3	15.8	0.1	NA
Spot 89	465	1267	1.0	10.1307	7.4	0.0296	9.6	0.0025	0.5	0.05	15.8	0.1	29.6	2.8	1367.1	185.7	15.8	0.1	NA
Spot 94	808	1983	0.7	12.2072	6.1	0.0252	8.2	0.0025	0.6	0.07	15.8	0.1	25.3	2.1	1053.0	166.0	15.8	0.1	NA
Spot 93	287	633	1.9	7.7276	9.5	0.0364	18.7	0.0025	0.6	0.03	15.8	0.1	36.3	6.7	1755.6	345.9	15.8	0.1	NA
Spot 135	360	918	0.7	7.9419	8.8	0.0376	12.5	0.0025	0.7	0.06	15.9	0.1	37.4	4.6	1809.6	228.3	15.9	0.1	NA
Spot 43	330	828	0.7	7.8742	10.1	0.0375	11.3	0.0025	0.6	0.05	15.9	0.1	37.3	4.1	1803.0	205.4	15.9	0.1	NA
Spot 14	362	793	0.7	8.2242	9.2	0.0353	15.2	0.0025	0.6	0.04	15.9	0.1	35.2	5.3	1694.6	282.2	15.9	0.1	NA
Spot 16	96	268	0.7	4.8344	21.7	0.0540	33.3	0.0025	0.6	0.02	15.9	0.1	53.4	17.4	2443.0	582.7	15.9	0.1	NA
Spot 18	151	387	0.8	5.0322	12.9	0.0565	13.8	0.0025	0.6	0.04	15.9	0.1	55.8	7.5	2514.2	233.8	15.9	0.1	NA
Spot 66	239	216	1.5	5.5531	10.5	0.0401	20.4	0.0025	0.6	0.03	15.9	0.1	40.0	8.0	1920.1	369.7	15.9	0.1	NA
Spot 136	470	1027	0.6	10.4568	6.7	0.0279	9.0	0.0025	0.6	0.07	16.0	0.1	27.9	2.5	1233.6	176.6	16.0	0.1	NA
Spot 28	82	229	0.9	4.2053	24.4	0.0629	27.0	0.0025	0.6	0.02	16.0	0.1	62.0	16.3	2686.9	456.5	16.0	0.1	NA
Spot 13	39	116	0.7	3.2766	21.1	0.0695	34.5	0.0025	0.8	0.02	16.0	0.1	68.2	22.7	2845.1	581.2	16.0	0.1	NA
Spot 60	201	248	0.7	5.0515	11.3	0.0500	33.4	0.0025	0.6	0.02	16.0	0.1	49.5	16.1	2292.3	592.0	16.0	0.1	NA
Spot 8	471	1034	1.7	10.3807	8.3	0.0285	10.7	0.0025	0.7	0.07	16.2	0.1	28.5	3.0	1254.2	209.0	16.2	0.1	NA
Spot 78	103	322	0.6	5.8783	17.3	0.0448	35.3	0.0025	0.6	0.02	16.2	0.1	44.5	15.4	2079.4	643.1	16.2	0.1	NA
Spot 61	97	308	0.5	4.5715	18.3	0.0621	23.0	0.0025	0.5	0.02	16.3	0.1	61.1	13.6	2637.0	386.8	16.3	0.1	NA
Spot 56	89	66	0.7	4.0607	12.0	0.0039	827.6	0.0025	0.6	0.00	16.3	0.1	3.9	32.6	NA	NA	16.3	0.1	NA
Spot 6	361	149	0.6	6.0007	8.0	0.0244	24.5	0.0025	0.9	0.04	16.4	0.1	24.5	5					

Spot 4	106	1001	0.7	-1.7053	-1696.8	-0.2037	1696.9	0.0024	20.5	0.01	15.6	3.2	NA	NA	NA	NA	15.6	3.2	NA
Spot 13	1140	1548	0.7	14.3568	27.9	0.0206	29.6	0.0025	4.4	0.15	16.0	0.7	20.7	6.1	607.1	645.2	16.0	0.7	NA
Spot 11	247	677	0.4	12.5362	42.9	0.0207	47.0	0.0026	6.6	0.14	16.6	1.1	20.8	9.7	532.8	NA	16.6	1.1	NA

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Spot 15	497	14273	1.5	21.0341	4.7	0.0326	5.7	0.0051	3.2	0.55	32.8	1.0	32.5	1.8	15.6	NA	32.8	1.0	NA
Spot 18	391	10554	1.9	24.1264	16.9	0.0281	17.7	0.0051	5.2	0.29	32.8	1.7	28.1	4.9	NA	NA	32.8	1.7	NA
Spot 2	504	14350	1.6	21.5197	15.0	0.0322	15.4	0.0052	3.3	0.21	33.2	1.1	32.2	4.9	NA	NA	33.2	1.1	NA
Spot 5	329	8528	1.7	20.6327	15.2	0.0331	15.5	0.0052	2.6	0.17	33.2	0.9	33.1	5.0	28.1	NA	33.2	0.9	NA
Spot 12	422	6718	2.6	19.8003	10.8	0.0343	11.4	0.0052	3.4	0.30	33.3	1.1	34.3	3.8	105.3	NA	33.3	1.1	NA
Spot 10	178	3166	2.3	23.4334	38.9	0.0270	39.4	0.0052	4.4	0.11	33.3	1.5	27.1	10.5	NA	NA	33.3	1.5	NA
Spot 14	174	5593	2.0	16.9824	29.4	0.0401	31.7	0.0052	11.5	0.36	33.4	3.8	39.9	12.4	454.7	NA	33.4	3.8	NA
Spot 7	285	12968	1.6	23.8744	21.4	0.0291	22.1	0.0052	5.6	0.25	33.5	1.9	29.2	6.4	NA	NA	33.5	1.9	NA
Spot 19	324	8385	1.9	20.6741	15.6	0.0338	16.2	0.0053	4.0	0.25	33.9	1.4	33.7	5.4	23.0	NA	33.9	1.4	NA
Spot 3	106	2615	1.7	26.4406	79.0	0.0233	80.2	0.0053	11.3	0.14	34.0	3.8	23.4	18.5	NA	NA	34.0	3.8	NA
Spot 22	277	4678	2.2	23.1362	25.5	0.0292	25.8	0.0053	2.7	0.10	34.1	0.9	29.2	7.4	NA	NA	34.1	0.9	NA
Spot 8	316	8407	2.3	31.7330	35.1	0.0218	35.3	0.0053	2.7	0.08	34.3	0.9	21.9	7.6	NA	NA	34.3	0.9	NA
Spot 16	436	24045	1.6	22.4681	8.2	0.0323	8.5	0.0054	2.1	0.25	34.4	0.7	32.3	2.7	NA	NA	34.4	0.7	NA
Spot 6	167	5161	1.0	9.7579	423.9	0.0736	424.0	0.0054	8.5	0.02	34.5	2.9	72.1	303.7	1614.7	NA	34.5	2.9	NA
Spot 9	199	610	2.0	12.3052	14.4	0.0423	15.6	0.0054	3.1	0.20	34.5	1.1	42.0	6.4	497.0	338.5	34.5	1.1	NA
Spot 23	349	5817	2.6	21.0583	22.8	0.0332	23.2	0.0054	3.8	0.16	34.5	1.3	33.1	7.6	NA	NA	34.5	1.3	NA
Spot 4	466	1939	2.0	16.3936	8.5	0.0394	11.3	0.0054	2.3	0.20	34.5	0.8	39.3	4.4	339.5	251.6	34.5	0.8	NA
Spot 1	515	6597	1.9	21.2186	13.8	0.0331	14.4	0.0054	3.4	0.24	34.5	1.2	33.1	4.7	NA	NA	34.5	1.2	NA
Spot 11	798	4653	1.2	19.3487	4.4	0.0359	5.3	0.0054	1.8	0.34	34.6	0.6	35.8	1.9	114.3	NA	34.6	0.6	NA
Spot 1C	421	12358	1.5	23.6105	17.1	0.0306	19.7	0.0054	9.7	0.49	34.8	3.4	30.6	5.9	NA	NA	34.8	3.4	NA
Spot 13	341	8805	1.7	20.3352	13.1	0.0355	13.6	0.0054	3.3	0.24	35.0	1.2	35.5	4.7	65.3	NA	35.0	1.2	NA
Spot 17	238	18180	2.5	22.1062	19.5	0.0749	19.9	0.0123	3.8	0.19	78.6	3.0	73.3	14.1	NA	NA	78.6	3.0	NA
Spot 20	114	127467	0.9	8.4558	0.2	5.7418	0.7	0.3533	0.7	0.95	1950.5	11.5	1937.7	6.2	1924.0	4.1	1924	4.1	101
Spot 21	127	430532	1.1	8.4474	0.3	5.6892	0.6	0.3495	0.5	0.85	1932.4	7.9	1929.7	4.8	1926.9	5.3	1927	5.3	100

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Spot 32	277	514	0.4	5.4700	12.6	0.0735	17.4	0.0034	0.6	0.03	21.6	0.1	72.0	12.1	2443.9	296.8	21.6	0.1	NA
Spot 1	225	465	0.8	4.2818	15.9	0.0985	17.3	0.0034	0.6	0.03	22.1	0.1	95.4	15.8	2892.7	283.1	22.1	0.1	NA
Spot 30	101	267	0.9	5.3269	21.4	0.0663	26.5	0.0035	0.5	0.02	22.2	0.1	65.2	16.7	2220.0	467.4	22.2	0.1	NA
Spot 60	144	278	1.0	5.0006	20.6	0.0734	35.2	0.0035	0.8	0.02	22.3	0.2	71.9	24.4	2389.9	620.2	22.3	0.2	NA
Spot 46	387	717	0.7	6.9613	10.7	0.0616	11.4	0.0036	0.7	0.06	22.9	0.2	60.7	6.7	2033.7	201.8	22.9	0.2	NA
Spot 99	427	719	1.3	7.5834	9.4	0.0555	13.8	0.0036	0.6	0.05	22.9	0.1	54.8	7.4	1847.0	251.1	22.9	0.1	NA
Spot 53	240	462	0.7	5.3094	12.1	0.0806	14.5	0.0036	0.6	0.04	23.3	0.1	78.7	11.0	2468.1	245.4	23.3	0.1	NA
Spot 3	537	938	0.6	7.8024	8.7	0.0573	13.8	0.0036	0.6	0.05	23.5	0.1	56.5	7.6	1861.1	249.9	23.5	0.1	NA
Spot 102	1565	2944	0.7	12.4316	6.0	0.0382	6.2	0.0037	0.7	0.11	23.6	0.2	38.0	2.3	1082.8	123.7	23.6	0.2	NA
Spot 91	521	1132	0.6	9.5249	8.9	0.0472	9.6	0.0037	0.5	0.05	23.7	0.1	46.8	4.4	1483.9	182.9	23.7	0.1	NA
Spot 28	747	1182	0.8	8.8305	7.7	0.0523	8.5	0.0037	0.6	0.07	23.9	0.1	51.8	4.3	1661.0	156.6	23.9	0.1	NA
Spot 13	251	497	1.1	5.1370	14.0	0.0873	19.8	0.0037	0.6	0.03	24.0	0.2	85.0	16.1	2558.1	334.5	24.0	0.2	NA
Spot 119	151	254	0.9	3.5975	16.2	0.1199	17.6	0.0037	0.6	0.03	24.0	0.1	115.0	19.1	3074.0	283.6	24.0	0.1	NA
Spot 64	133	246	1.7	4.7500	24.3	0.0821	28.3	0.0038	0.6	0.02	24.1	0.1	80.2	21.8	2443.1	489.9	24.1	0.1	NA
Spot 4	236	423	0.7	5.9125	15.1	0.0717	26.9	0.0038	0.5	0.02	24.2	0.1	70.3	18.2	2206.6	475.5	24.2	0.1	NA
Spot 79	2372	4674	0.8	15.6731	3.6	0.0315	6.1	0.0038	0.5	0.09	24.2	0.1	31.5	1.9	632.6	130.4	24.2	0.1	NA
Spot 45	1509	2925	1.5	13.3643	4.4	0.0363	5.7	0.0038	0.9	0.15	24.2	0.2	36.2	2.0	930.6	115.4	24.2	0.2	NA
Spot 66	998	1649	0.6	12.1580	5.5	0.0382	11.1	0.0038	0.6	0.05	24.2	0.1	38.0	4.1	1028.1	224.0	24.2	0.1	NA
Spot 48	3980	6799	0.5	16.4453	2.8	0.0305	3.2	0.0038	0.6	0.18	24.2	0.1	30.5	1.0	559.6	67.9	24.2	0.1	NA
Spot 114	873	1700	1.0	10.2592	8.2	0.0463	10.1	0.0038	0.5	0.05	24.3	0.1	46.0	4.6	1407.1	194.1	24.3	0.1	NA
Spot 12	2081	2287	1.1	13.6841	3.5	0.0348	7.0	0.0038	0.8	0.11	24.3	0.2	34.8	2.4	835.6	145.1	24.3	0.2	NA
Spot 100	810	1510	1.5	10.8521	6.2	0.0431	6.9	0.0038	0.6	0.09	24.3	0.1	42.8	2.9	1262.9	133.9	24.3	0.1	NA
Spot 71	3169	4888	0.9	16.5880	2.3	0.0299	5.2	0.0038	0.5	0.10	24.3	0.1	29.9	1.5	503.7	114.4	24.3	0.1	NA
Spot 23	1545	2886	0.9	13.4034	5.0	0.0365	5.7	0.0038	0.6	0.10	24.4	0.1	36.4	2.0	924.2	116.0	24.4	0.1	NA
Spot 85	735	1394	0.6	9.5326	8.3	0.0498	12.4	0.0038	0.7	0.05	24.4	0.2	49.3	6.0	1530.5	233.9	24.4	0.2	NA
Spot 29	1762	3481	0.8	14.2977	3.6	0.0346	4.6	0.0038	0.6	0.13	24.4	0.2	34.6	1.6	810.3	95.7	24.4	0.2	NA
Spot 117	638	760	1.0	8.3170	7.8	0.0535	14.4	0.0038	0.6	0.04	24.4	0.1	52.9	7.4	1661.3	266.9	24.4	0.1	NA
Spot 43	324	615	1.2	5.6040	13.1	0.0830	13.6	0.0038	0.6	0.04	24.4	0.1	80.9	10.6	2438.0	230.9	24.4	0.1	NA
Spot 9	1348	2662	0.7	13.5968	5.3	0.0358	9.5	0.0038	0.6	0.07	24.5	0.2	35.7	3.3	876.1	196.2	24.5	0.2	NA
Spot 44	1974	3918	0.8	13.8128	3.6	0.0362	4.5	0.0038	0.6	0.13	24.5	0.1	36.1	1.6	896.5	92.5	24.5	0.1	NA
Spot 27	1044	1809	0.8	11.5392	5.8	0.0417	7.0	0.0038	0.5	0.07	24.5	0.1	41.4	2.8	1177.5	137.8	24.5	0.1	NA
Spot 62	1293	2601	1.0	12.0132	4.6	0.0409	5.1	0.0038	0.7	0.14	24.6	0.2	40.7	2.0	1139.1	99.7	24.6	0.2	NA
Spot 73	473	744	0.6	7.5180	8.8	0.0605	10.9	0.0038	0.7	0.06	24.6	0.2	59.7	6.3	1879.7	197.4	24.6	0.2	NA
Spot 118	2059	3961	1.1	14.9131	4.0	0.0333	7.0	0.0038	0.6	0.08	24.6	0.1	33.3	2.3	719.2	147.9	24.6	0.1	NA
Spot 59	1845	3615	0.7	14.4378	3.6	0.0344	5.1	0.0038	0.7	0.14	24.6	0.2	34.3	1.7	782.3	106.2	24.6	0.2	NA
Spot 26	1340	2535	1.4	13.2545	5.0	0.0370	7.5	0.0038	0.5	0.07	24.6	0.1	36.9	2.7	932.2	152.9	24.6	0.1	NA
Spot 105	688	1403	1.8	8.9252	9.7	0.0538	11.8	0.0038	0.6	0.05	24.6	0.2	53.2	6.1	1661.5	218.9	24.6	0.2	NA
Spot 116	1426	2736	0.6	14.2067	3.5	0.0343	8.1	0.0038	0.6	0.08	24.6	0.2	34.3	2.7	775.4	170.2	24.6	0.2	NA
Spot 21	1884	3080	1.1	13.7875	3.9	0.0359	4.3	0.0038	0.5	0.12	24.6	0.1	35.8	1.5	869.8	89.0	24.6	0.1	NA
Spot 101	1599	3147	1.3	13.4914	5.3	0.0368	7.7	0.0038	0.6	0.08	24.7	0.2	36.7	2.8	913.5	159.1	24.7	0.2	NA
Spot 115	1051	1890	0.7	12.7771	5.0	0.0374	7.6	0.0038	0.6	0.09	24.7	0.2	37.3	2.8	945.7	155.2	24.7	0.2	NA
Spot 57	620	1034	0.7	8.6597	8.3	0.0542	10.4	0.0038	0.8	0.08	24.7	0.2	53.6	5.4	1665.3	191.7	24.7	0.2	NA
Spot 93	1400	2544	1.0	12.3844	4.2	0.0400	4.5	0.0039	0.6	0.14	24.8	0.2	39.8	1.8	1076.4	90.2	24.8	0.2	NA
Spot 80	2870	1238	0.7	14.3332	3.8	0.0309	15.2	0.0039	0.7	0.05	24.8	0.2	30.9	4.6	533.6	333.3	24.8	0.2	NA
Spot 47	1585	3319	1.5	14.2213	3.9	0.0352	4.9	0.0039	0.6	0.12	24.8	0.1	35.1	1.7	810.1	101.0	24.8	0.1	NA
Spot 37	1575	3371	1.0	13.8248	4.9	0.0364	5.6	0.0039	0.5	0.09	24.8	0.1	36.3	2.0	880.1	115.6	24.8	0.1	NA
Spot 108	1621	3285	1.0	14.8902	4.5	0.0334	8.0	0.0039	0.6	0.08	24.9	0.2	33.3	2.6	696.4	170.0	24.9	0.2	NA
Spot 34	1649	3284	0.8	13.4955	4.6	0.0373	6.3	0.0039	0.7	0.11	24.9	0.2	37.2	2.3	929.8	129.1	24.9	0.2	NA
Spot 78	533	885	0.5	9.5904	7.0	0.0472	13.7	0.0039	0.7	0.05	24.9	0.2	46.8	6.2	1394.9	262.7	24.9	0.2	NA
Spot 97	1987	4513	1.3	15.2565	3.8	0.0333	5.1	0.0039	0.6	0.11	24.9	0.1	33.2	1.7	688.5	108.8	24.9	0.1	NA
Spot 31	1399	2381	1.0	12.2012	5.0	0.0407	5.7	0.0039	0.5	0.09	24.9	0.1	40.5	2.3	1104.5	114.5	24.9	0.1	NA
Spot 33	1117	2068	0.6	11.6701	5.5	0.0422	6.5	0.0039	0.6	0.10	24.9	0.2	42.0	2.7	1177.5	127.8	24.9	0.2	NA
Spot 17	3237	5890	0.9	17.6005	2.1	0.0291	3.2	0.0039	0.5	0.16	24.9	0.1	29.1	0.9	391.5	70.3	24.9	0.1	NA
Spot 86	1091	2046	0.9	10.7079	7.0	0.0463	7.5	0.0039	0.7	0.09	24.9	0.2	45.9	3.4	1353.6	144.1	24.9	0.2	NA
Spot 24	2204	3768	0.8	15.6307	3.2	0.0323	3.9	0.0039	0.5	0.14	24.9	0.1	32.3	1.2	618.6	82.8	24.9	0.1	NA
Spot 77	3575	7029	1.1	18.0834	2.4	0.0285	2.7	0.0039	0.6	0.22	24.9	0.2	28.5	0.8	340.3	60.5	24.9	0.2	NA
Spot 40	1206	2311	0.7	12.5317	5.4	0.0397	6.2	0.0039	0.5	0.08	25.1	0.1	39.5	2.4	1038.1	124.4	25.1	0.1	NA
Spot 110	1671	3158	0.9	13.6222	4.5	0.0369	5.1	0.0039	1.0	0.20	25.1	0.3	36.8	1.8	892.0	102.6	25.1	0.3	NA
Spot 75	1492	3023	0.8	13.5623	4.1	0.0371	8.0	0.0039	0.6	0.07	25.1	0.1	37.0	2.9	900.3	165.3	25.1	0.1	NA
Spot 95	4353	8468	1.0	18.2481	1.7	0.0286	2.0	0.0039	0.6	0.30	25.1	0.1	28.6	0.6	334.7	43.0	25.1	0.1	NA
Spot 81	2381	4533	1.0	15.4799	2.5	0.0331	3.7	0.0039	0.6	0.17	25.1	0.2	33.1	1.2	657.3	78.0	25.1	0.2	NA
Spot 72	581	1034	0.7	7.9980	8.7	0.0604	9.8	0.0039	0.6	0.06	25.2	0.1	59.5	5.7	1831.2	177.5	25.2	0.1	NA
Spot 50	2944	5830	0.7	16.5977	2.6	0.0312	3.4	0.0039	0.7	0.19	25.2	0.2	31.2	1.0	523.0	73.4	25.2	0.2	NA

Spot 6	424	910	1.0	6.6746	11.2	0.0732	12.0	0.0039	0.6	0.05	25.2	0.2	71.7	8.3	2170.2	210.1	25.2	0.2	NA
Spot 25	795	1431	0.7	11.1890	6.1	0.0431	11.9	0.0039	0.6	0.05	25.2	0.2	42.9	5.0	1193.7	235.3	25.2	0.2	NA
Spot 39	285	559	0.8	5.0566	9.9	0.0952	13.1	0.0039	0.6	0.05	25.2	0.2	92.4	11.6	2617.9	219.6	25.2	0.2	NA
Spot 18	743	1672	0.6	9.6637	8.2	0.0517	9.5	0.0039	0.7	0.07	25.2	0.2	51.1	4.7	1538.5	178.3	25.2	0.2	NA
Spot 120	3215	5915	0.5	16.9425	2.4	0.0305	2.8	0.0039	0.5	0.19	25.2	0.1	30.5	0.8	470.5	61.4	25.2	0.1	NA
Spot 16	1603	2838	0.7	13.6392	4.0	0.0371	5.3	0.0039	0.6	0.12	25.3	0.2	37.0	1.9	882.4	108.1	25.3	0.2	NA
Spot 51	1631	3389	1.6	13.9841	4.0	0.0365	5.4	0.0039	0.7	0.13	25.3	0.2	36.4	1.9	848.5	112.0	25.3	0.2	NA
Spot 58	2442	4433	0.5	16.3109	2.9	0.0316	5.6	0.0039	0.7	0.12	25.4	0.2	31.5	1.8	529.9	122.7	25.4	0.2	NA
Spot 82	2283	4077	0.9	15.9439	2.7	0.0323	6.2	0.0039	0.7	0.11	25.4	0.2	32.3	2.0	576.8	133.1	25.4	0.2	NA
Spot 41	1694	3429	0.6	15.0936	3.3	0.0339	6.3	0.0040	0.8	0.12	25.4	0.2	33.9	2.1	682.4	133.7	25.4	0.2	NA
Spot 98	1642	3065	0.9	13.7162	3.9	0.0372	6.3	0.0040	0.6	0.09	25.5	0.1	37.1	2.3	875.7	129.4	25.5	0.1	NA
Spot 112	1421	3079	0.8	12.7337	4.2	0.0404	6.5	0.0040	0.6	0.09	25.5	0.1	40.2	2.5	1035.3	130.3	25.5	0.1	NA
Spot 74	1369	2652	1.1	14.7952	5.0	0.0341	8.1	0.0040	0.7	0.08	25.6	0.2	34.1	2.7	680.5	172.6	25.6	0.2	NA
Spot 55	1760	3341	0.9	14.4329	4.1	0.0357	5.8	0.0040	0.6	0.10	25.6	0.1	35.6	2.0	775.2	120.8	25.6	0.1	NA
Spot 65	1633	2585	1.6	13.1837	4.0	0.0386	5.6	0.0040	0.7	0.12	25.6	0.2	38.4	2.1	935.1	114.6	25.6	0.2	NA
Spot 92	1981	4086	1.0	14.4426	3.7	0.0362	5.3	0.0040	0.7	0.14	25.7	0.2	36.1	1.9	799.9	110.7	25.7	0.2	NA
Spot 103	263	604	2.2	4.8418	15.7	0.1026	16.5	0.0040	0.7	0.04	25.7	0.2	99.2	15.6	2709.0	274.5	25.7	0.2	NA
Spot 94	1112	641	1.2	10.7314	5.4	0.0391	15.9	0.0040	0.6	0.04	25.7	0.1	38.9	6.1	954.4	325.9	25.7	0.1	NA
Spot 38	1839	2797	0.6	14.3560	3.8	0.0357	4.3	0.0040	0.4	0.10	25.8	0.1	35.6	1.5	765.6	90.6	25.8	0.1	NA
Spot 76	1531	2837	1.1	14.4658	3.7	0.0355	5.4	0.0040	0.6	0.10	25.9	0.1	35.4	1.9	744.8	112.9	25.9	0.1	NA
Spot 61	2110	3801	0.6	15.7280	3.6	0.0331	5.1	0.0040	0.7	0.13	25.9	0.2	33.1	1.7	594.0	109.0	25.9	0.2	NA
Spot 42	1186	1784	0.4	13.1299	5.3	0.0380	10.6	0.0040	0.6	0.06	26.0	0.2	37.9	3.9	878.8	219.8	26.0	0.2	NA
Spot 90	543	1088	0.8	7.8295	9.4	0.0644	13.5	0.0040	0.5	0.04	26.0	0.1	63.3	8.3	1887.1	243.3	26.0	0.1	NA
Spot 56	637	826	0.8	9.1083	7.3	0.0519	12.5	0.0040	0.6	0.05	26.0	0.2	51.4	6.3	1488.5	237.0	26.0	0.2	NA
Spot 70	345	658	0.7	7.3602	10.9	0.0645	15.2	0.0041	0.6	0.04	26.1	0.2	63.5	9.3	1885.8	274.4	26.1	0.2	NA
Spot 22	1675	3044	1.8	13.6870	4.0	0.0389	4.5	0.0041	0.6	0.14	26.5	0.2	38.7	1.7	884.5	92.1	26.5	0.2	NA
Spot 11	429	972	1.0	7.6525	9.9	0.0671	12.9	0.0042	0.5	0.04	26.8	0.1	65.9	8.2	1908.7	232.0	26.8	0.1	NA
Spot 106	268	567	1.0	6.0427	12.8	0.0822	15.1	0.0042	0.7	0.05	27.0	0.2	80.2	11.6	2255.2	262.1	27.0	0.2	NA
Spot 49	251	567	1.0	6.0068	15.2	0.0838	16.6	0.0042	0.6	0.03	27.2	0.2	81.7	13.0	2272.8	287.5	27.2	0.2	NA
Spot 104	1169	4135	1.1	12.8068	2.6	0.0643	3.6	0.0063	0.7	0.20	40.3	0.3	63.3	2.2	1054.7	71.0	40.3	0.3	NA
Spot 7	813	6228	2.4	16.5819	2.4	0.1197	2.9	0.0150	0.6	0.21	95.8	0.6	114.8	3.1	530.0	62.0	95.8	0.6	NA
Spot 113	1449	9566	2.1	18.3341	1.7	0.1149	2.6	0.0157	0.6	0.22	100.7	0.6	110.4	2.8	325.6	58.5	101	0.6	NA
Spot 35	842	7286	1.9	17.3525	2.0	0.1350	3.2	0.0175	0.6	0.19	112.0	0.7	128.6	3.8	447.6	69.1	112	0.7	NA
Spot 67	1057	1547	1.1	16.1716	1.6	0.1695	14.4	0.0235	0.5	0.04	149.8	0.8	159.0	21.2	298.8	NA	150	0.8	NA
Spot 2	233	3125	0.9	13.2274	4.3	0.2456	6.8	0.0251	0.6	0.09	159.6	0.9	223.0	13.5	959.0	137.7	160	0.9	NA
Spot 15	1673	19641	0.9	19.4583	1.0	0.1766	1.6	0.0252	0.7	0.42	160.5	1.1	165.1	2.5	231.6	34.2	160	1.1	NA
Spot 68	841	10560	1.5	18.3793	1.9	0.1866	2.2	0.0255	0.6	0.28	162.5	1.0	173.7	3.4	328.9	47.0	163	1.0	NA
Spot 52	1102	15794	1.5	19.0104	1.3	0.1841	2.0	0.0258	0.6	0.30	164.2	1.0	171.6	3.1	273.9	43.2	164	1.0	NA
Spot 8	1117	12453	1.4	18.6660	1.3	0.1868	2.0	0.0258	0.5	0.24	164.3	0.8	173.9	3.1	306.2	43.5	164	0.8	NA
Spot 88	952	13374	0.8	18.6784	1.6	0.1927	1.9	0.0266	0.8	0.41	169.4	1.3	179.0	3.1	306.5	39.9	169	1.3	NA
Spot 87	1035	12625	1.1	18.5082	1.4	0.1958	2.1	0.0268	0.6	0.28	170.5	1.0	181.6	3.4	327.6	45.1	171	1.0	NA
Spot 107	1683	20671	0.9	19.2816	1.1	0.1894	1.7	0.0269	0.5	0.30	171.1	0.9	176.1	2.8	243.2	38.3	171	0.9	NA
Spot 111	533	6279	1.4	16.8057	2.1	0.2125	2.8	0.0270	0.7	0.24	171.7	1.2	195.6	5.0	495.1	60.0	172	1.2	NA
Spot 10	569	8579	1.5	16.9866	2.5	0.2153	2.9	0.0273	1.1	0.37	173.5	1.8	198.0	5.2	501.6	58.9	173	1.8	NA
Spot 84	765	6222	1.3	17.8255	1.8	0.2038	3.0	0.0275	0.6	0.21	174.6	1.1	188.4	5.1	364.8	65.3	175	1.1	NA
Spot 54	258	3337	1.3	14.4375	3.1	0.2481	6.0	0.0277	0.7	0.12	175.9	1.2	225.0	12.1	775.4	124.9	176	1.2	NA
Spot 63	3605	57854	2.4	19.5965	0.7	0.2335	1.0	0.0334	0.6	0.63	211.7	1.3	213.1	1.8	228.3	17.1	212	1.3	NA
Spot 69	3963	22413	3.2	19.3918	0.7	0.2408	1.5	0.0343	0.5	0.35	217.4	1.2	219.1	3.0	237.6	33.2	217	1.2	NA
Spot 20	2276	42499	1.8	19.6906	0.7	0.2402	1.0	0.0344	0.5	0.53	218.3	1.1	218.6	2.0	221.7	19.5	218	1.1	NA
Spot 83	3642	57702	2.6	19.6615	0.6	0.2421	0.9	0.0347	0.5	0.62	219.8	1.2	220.2	1.7	224.7	15.9	220	1.2	NA
Spot 96	4732	75189	1.4	19.6275	0.5	0.2440	0.8	0.0348	0.5	0.60	220.7	1.0	221.7	1.5	232.7	14.2	221	1.0	NA
Spot 19	2406	39699	2.1	19.6561	0.8	0.2440	1.1	0.0349	0.6	0.52	221.4	1.2	221.7	2.2	224.7	21.4	221	1.2	NA
Spot 109	1274	20352	2.0	19.1891	1.1	0.2560	1.7	0.0362	0.5	0.29	229.1	1.1	231.5	3.5	255.7	37.1	229	1.1	NA
Spot 14	1086	3617	1.7	17.9446	1.2	0.2610	1.9	0.0365	0.8	0.40	231.2	1.7	235.5	4.1	277.9	40.7	231	1.7	NA
Spot 89	2877	52775	1.6	19.7043	0.7	0.2616	0.9	0.0375	0.5	0.57	237.6	1.2	236.0	1.9	219.9	16.8	238	1.2	NA
Spot 36	228	36207	0.6	8.6841	0.7	5.2912	1.0	0.3328	0.6	0.66	1851.9	10.3	1867.4	8.3	1884.7	13.2	1885	13.2	98

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Spot 24	62	779	0.8	11.9395	88.4	0.0279	90.6	0.0031	18.0	0.20	20.1	3.6	28.0	25.0	770.7	NA	20.1	3.6	NA
Spot 22	62	1598	0.8	-0.5604	-2280.5	-0.8401	2280.6	0.0034	18.7	0.01	21.7	4.0	NA	NA	NA	NA	21.7	4.0	NA
Spot 11	114	1371	0.7	27.1494	69.2	0.0119	74.0	0.0034	13.8	0.19	21.7	3.0	12.1	8.9	NA	NA	21.7	3.0	NA
Spot 9	50	691	0.5	6.6655	107.2	0.0615	109.3	0.0034	19.8	0.18	22.0	4.3	60.6	64.3	2104.5	NA	22.0	4.3	NA
Spot 1	59	707	0.8	6.8112	331.7	0.0603	332.6	0.0034	24.9	0.07	22.0	5.5	59.4	194.3	2066.2	NA	22.0	5.5	NA
Spot 17	61	1160	0.7	-1.1343	-2904.4	-0.4278	2904.5	0.0034	24.9	0.01	22.0	5.5	NA	NA	NA	NA	22.0	5.5	NA
Spot 8	51	529	0.9	6.0127	161.4	0.0670	162.6	0.0034	18.3	0.11	22.1	4.0	65.9	104.1	2243.0	NA	22.1	4.0	NA
Spot 23	114	2562	0.5	9.1219	221.0	0.0495	221.2	0.0035	9.9	0.04	22.3	2.2	49.1	106.4	1694.1	NA	22.3	2.2	NA
Spot 3	122	1956	0.7	2.2533	1221.2	0.2099	1221.2	0.0035	9.3	0.01	22.3	2.1	193.5	NA	4047.3	NA	22.3	2.1	NA
Spot 15	147	2034	0.6	15.7096	31.0	0.0271	35.2	0.0035	16.0	0.45	22.4	3.6	27.1	9.4	462.7	NA	22.4	3.6	NA
Spot 13	72	1648	0.9	16.0030	143.2	0.0258	144.0	0.0035	12.8	0.09	22.6	2.9	25.9	36.8	343.7	NA	22.6	2.9	NA
Spot 10	98	2861	0.7	20.0290	144.0	0.0216	144.8	0.0035	12.6	0.09	22.6	2.8	21.7	31.1	NA	NA	22.6	2.8	NA
Spot 20	121	2532	0.6	25.1618	78.4	0.0166	79.7	0.0036	10.3	0.13	23.0	2.4	16.7	13.2	NA	NA	23.0	2.4	NA
Spot 21	49	856	0.8	3.6788	417.3	0.1275	418.1	0.0036	24.8	0.06	23.1	5.7	121.9	521.6	3235.5	NA	23.1	5.7	NA
Spot 19	96	1059	0.6	-10.7692	-409.4	-0.0543	409.6	0.0036	12.1	0.03	23.2	2.8	NA	-243.4	NA	NA	23.2	2.8	NA
Spot 7	102	291	0.7	9.0189	32.8	0.0306	44.0	0.0036	19.5	0.44	23.5	4.6	30.6	13.3	633.7	NA	23.5	4.6	NA
Spot 18	132	2117	0.9	12.7955	104.9	0.0362	105.4	0.0037	9.8	0.09	23.8	2.3	36.2	37.5	959.6	NA	23.8	2.3	NA
Spot 5	67	921	0.6	8.3626	43.4	0.0541	47.0	0.0038	16.7	0.36	24.2	4.0	53.5	24.5	1703.9	853.2	24.2	4.0	NA
Spot 14	88	1091	0.8	13.0698	59.0	0.0327	62.1	0.0038	16.8	0.27	24.2	4.1	32.7	20.0	706.8	NA	24.2	4.1	NA
Spot 16	220	3156	1.4	19.7857	39.9	0.0237	40.6	0.0038	6.6	0.16	24.3	1.6	23.8	9.6	NA	NA	24.3	1.6	NA
Spot 12	295	5405	0.9	22.1629	21.2	0.0221	21.8	0.0038	4.4	0.20	24.4	1.1	22.2	4.8	NA	NA	24.4	1.1	NA
Spot 2	79	1084	0.6	5.9113	377.2	0.0848	377.3	0.0039	9.1	0.02	25.2	2.3	82.6	308.6	2423.3	NA	25.2	2.3	NA
Spot 6	135	2901	1.0	23.8022	60.9	0.0204	63.1	0.0040	15.4	0.24	25.9	4.0	20.5	12.8	NA	NA	25.9	4.0	NA

Spot 89	453	582	0.8	5.8034	14.6	0.0437	17.1	0.0021	0.7	0.04	13.6	0.1	43.4	7.3	2344.6	294.9	13.6	0.1	NA
Spot 5	450	342	1.2	4.9704	12.5	0.0481	16.6	0.0021	0.5	0.03	13.7	0.1	47.7	7.7	2496.6	281.2	13.7	0.1	NA
Spot 118	1049	1143	0.6	10.2175	7.0	0.0252	10.1	0.0021	0.5	0.04	13.8	0.1	25.3	2.5	1330.1	196.7	13.8	0.1	NA
Spot 24	250	247	0.6	4.4357	16.2	0.0521	25.7	0.0022	0.6	0.02	13.9	0.1	51.6	12.9	2610.6	436.1	13.9	0.1	NA
Spot 14	192	273	1.5	4.7648	27.0	0.0495	36.9	0.0022	0.6	0.02	14.1	0.1	49.0	17.7	2493.8	647.5	14.1	0.1	NA
Spot 77	1057	1413	1.0	10.1557	6.8	0.0270	9.0	0.0022	0.7	0.08	14.2	0.1	27.1	2.4	1396.8	172.7	14.2	0.1	NA
Spot 80	1216	400	1.0	9.5425	6.4	0.0212	50.1	0.0022	0.6	0.01	14.4	0.1	21.3	10.6	894.8	NA	14.4	0.1	NA
Spot 87	660	829	0.9	9.2886	10.6	0.0280	15.5	0.0022	0.6	0.04	14.4	0.1	28.0	4.3	1438.9	296.1	14.4	0.1	NA
Spot 114	439	558	0.5	6.2922	12.6	0.0421	20.6	0.0023	0.6	0.03	14.5	0.1	41.8	8.4	2170.5	363.0	14.5	0.1	NA
Spot 58	551	857	0.8	7.6342	9.3	0.0361	11.6	0.0023	0.7	0.06	14.6	0.1	36.0	4.1	1881.5	209.3	14.6	0.1	NA
Spot 6	4091	5607	0.9	17.0310	2.5	0.0176	3.4	0.0023	0.6	0.16	14.7	0.1	17.7	0.6	449.8	73.5	14.7	0.1	NA
Spot 97	784	994	0.5	8.5482	7.1	0.0325	9.7	0.0023	0.6	0.06	14.7	0.1	32.5	3.1	1677.4	179.1	14.7	0.1	NA
Spot 9	708	862	0.6	7.1736	9.1	0.0391	9.5	0.0023	0.5	0.05	14.8	0.1	39.0	3.6	2007.9	168.4	14.8	0.1	NA
Spot 15	203	276	0.5	4.5900	13.8	0.0552	20.7	0.0023	1.0	0.05	14.9	0.2	54.5	11.0	2584.6	349.0	14.9	0.2	NA
Spot 86	287	290	1.2	4.8539	15.4	0.0518	25.4	0.0023	0.6	0.02	14.9	0.1	51.3	12.7	2478.6	435.9	14.9	0.1	NA
Spot 33	426	540	1.4	5.4594	12.2	0.0515	13.3	0.0023	0.5	0.04	15.0	0.1	51.0	6.6	2453.5	226.0	15.0	0.1	NA
Spot 120	472	520	0.9	6.3394	12.2	0.0429	21.5	0.0023	0.5	0.02	15.1	0.1	42.7	9.0	2132.6	381.4	15.1	0.1	NA
Spot 84	734	976	0.7	8.0901	8.7	0.0354	12.2	0.0023	0.6	0.05	15.1	0.1	35.4	4.2	1790.1	221.9	15.1	0.1	NA
Spot 61	677	915	0.8	7.3210	11.2	0.0403	13.1	0.0024	0.7	0.05	15.4	0.1	40.1	5.2	1983.4	234.2	15.4	0.1	NA
Spot 113	881	964	1.1	8.9217	7.5	0.0324	9.2	0.0024	0.6	0.07	15.5	0.1	32.4	2.9	1581.3	172.5	15.5	0.1	NA
Spot 67	152	263	0.9	5.7023	15.8	0.0417	38.1	0.0024	0.5	0.01	15.6	0.1	41.4	15.5	2026.6	702.7	15.6	0.1	NA
Spot 30	685	835	1.2	7.7582	9.8	0.0376	16.7	0.0024	0.5	0.03	15.6	0.1	37.5	6.1	1845.2	304.1	15.6	0.1	NA
Spot 50	485	169	0.5	5.0641	12.7	0.0401	51.7	0.0025	0.5	0.01	15.9	0.1	39.9	20.2	1920.9	1005.0	15.9	0.1	NA
Spot 45	389	511	0.9	6.3970	12.2	0.0471	19.2	0.0026	0.6	0.03	16.9	0.1	46.8	8.8	2100.9	341.1	16.9	0.1	NA
Spot 12	370	721	1.9	7.2395	10.4	0.0613	12.6	0.0037	0.5	0.04	23.9	0.1	60.4	7.4	1947.8	225.9	23.9	0.1	NA
Spot 22	1742	2980	0.9	15.0029	3.5	0.0329	8.0	0.0039	0.6	0.08	24.8	0.2	32.8	2.6	665.2	170.9	24.8	0.2	NA
Spot 110	1091	2311	0.7	12.8107	5.3	0.0383	8.1	0.0039	0.6	0.07	24.9	0.1	38.2	3.0	983.7	163.9	24.9	0.1	NA
Spot 41	743	1530	0.8	11.6125	6.3	0.0423	7.9	0.0040	0.9	0.11	25.6	0.2	42.0	3.3	1118.6	156.9	25.6	0.2	NA
Spot 26	1024	2541	1.9	13.1136	5.9	0.0408	7.0	0.0042	0.6	0.09	26.9	0.2	40.6	2.8	947.3	142.0	26.9	0.2	NA
Spot 62	645	1288	0.3	10.8087	6.6	0.0526	9.6	0.0047	0.6	0.06	30.1	0.2	52.1	4.9	1237.4	187.6	30.1	0.2	NA
Spot 116	172	1318	1.7	9.6149	7.5	0.1741	8.6	0.0135	0.6	0.06	86.4	0.5	163.0	12.9	1498.7	162.4	86.4	0.5	NA
Spot 55	1091	10011	3.0	17.9766	2.0	0.1294	2.8	0.0174	0.6	0.22	111.0	0.7	123.6	3.3	372.8	61.9	111	0.7	NA
Spot 83	3886	18537	3.2	19.9964	0.8	0.1248	1.5	0.0184	0.6	0.43	117.6	0.7	119.4	1.6	155.8	30.8	118	0.7	NA
Spot 7	210	2905	1.9	13.0286	4.8	0.2386	8.3	0.0242	0.5	0.06	153.9	0.8	217.3	16.3	974.9	169.4	154	0.8	NA
Spot 90	346	4845	1.5	15.9512	3.2	0.2088	3.9	0.0254	0.6	0.16	161.9	1.0	192.5	6.9	587.3	84.1	162	1.0	NA
Spot 48	1362	16920	0.9	19.5127	1.1	0.1766	1.4	0.0255	0.6	0.45	162.1	1.0	165.1	2.1	208.3	28.5	162	1.0	NA
Spot 92	1093	14226	1.4	18.7393	1.4	0.1851	1.9	0.0257	0.5	0.27	163.7	0.8	172.4	3.0	294.5	41.1	164	0.8	NA
Spot 3	514	10406	2.1	11.7954	3.7	0.2956	3.8	0.0258	0.6	0.15	164.0	0.9	262.9	8.8	1273.2	73.3	164	0.9	NA
Spot 20	288	4184	1.3	15.6923	3.3	0.2159	6.2	0.0260	0.6	0.09	165.5	1.0	198.5	11.3	611.3	134.4	166	1.0	NA
Spot 117	836	12822	1.4	18.2062	1.6	0.1974	2.0	0.0266	0.6	0.30	169.3	1.0	183.0	3.4	363.9	43.2	169	1.0	NA
Spot 57	648	7934	1.1	17.7313	1.8	0.1999	2.5	0.0266	0.5	0.21	169.5	0.9	185.0	4.2	387.8	54.1	170	0.9	NA
Spot 99	648	10423	1.4	17.9042	1.6	0.2008	2.6	0.0268	0.6	0.23	170.5	1.0	185.8	4.4	385.6	57.2	170	1.0	NA
Spot 82	837	6928	0.9	18.6794	1.5	0.1901	3.9	0.0268	0.6	0.16	170.6	1.0	176.7	6.3	258.7	87.7	171	1.0	NA
Spot 78	1453	16556	1.2	19.4740	1.0	0.1878	1.6	0.0270	0.5	0.33	171.6	0.9	174.7	2.6	217.1	35.7	172	0.9	NA
Spot 98	502	6417	1.9	17.0000	2.3	0.2100	3.3	0.0270	0.7	0.22	171.7	1.2	193.6	5.8	469.6	70.9	172	1.2	NA
Spot 2	341	5523	1.8	16.1287	2.6	0.2215	4.6	0.0272	0.7	0.15	172.7	1.2	203.1	8.4	572.6	98.4	173	1.2	NA
Spot 79	956	6252	1.0	18.1633	1.8	0.1976	2.7	0.0272	1.2	0.45	173.0	2.1	183.1	4.6	315.5	55.6	173	2.1	NA
Spot 29	545	9979	1.7	17.9338	1.9	0.2040	3.1	0.0272	0.6	0.18	173.1	1.0	188.5	5.3	386.4	68.1	173	1.0	NA
Spot 27	629	10565	1.4	18.2573	1.7	0.2004	2.8	0.0272	0.6	0.21	173.1	1.0	185.5	4.7	346.5	60.9	173	1.0	NA
Spot 81	1162	16513	0.7	19.0968	1.3	0.1939	2.1	0.0273	0.9	0.41	173.9	1.5	180.0	3.4	261.3	43.8	174	1.5	NA
Spot 18	440	6569	1.8	17.5958	2.0	0.2059	2.7	0.0273	0.6	0.21	173.9	1.0	190.1	4.6	396.4	58.2	174	1.0	NA
Spot 91	876	13510	0.9	18.5973	1.3	0.1985	1.8	0.0274	0.6	0.31	174.2	1.0	183.9	3.0	309.9	39.1	174	1.0	NA
Spot 40	649	10104	1.4	18.6855	1.5	0.1971	2.2	0.0274	0.6	0.27	174.5	1.0	182.7	3.6	290.9	47.9	174	1.0	NA
Spot 71	513	7484	1.1	17.4461	2.2	0.2098	2.6	0.0274	0.5	0.20	174.5	0.9	193.4	4.5	430.8	55.9	175	0.9	NA
Spot 112	447	7789	1.6	17.7214	2.2	0.2064	3.1	0.0274	0.6	0.20	174.5	1.1	190.5	5.3	394.0	67.4	175	1.1	NA
Spot 16	284	4280	2.4	16.0844	2.9	0.2227	6.3	0.0275	0.5	0.09	174.9	0.9	204.1	11.6	557.3	136.0	175	0.9	NA
Spot 59	629	9610	1.6	18.1980	1.9	0.2025	2.9	0.0275	1.1	0.37	175.0	1.9	187.2	4.9	344.7	60.1	175	1.9	NA
Spot 88	561	7742	2.0	17.9822	1.5	0.2035	3.0	0.0275	0.7	0.25	175.1	1.3	188.1	5.2	354.7	66.4	175	1.3	NA
Spot 70	548	7147	1.4	17.6110	1.5	0.2084	2.9	0.0276	0.5	0.19	175.3	0.9	192.2	5.1	405.2	64.6	175	0.9	NA
Spot 11	421	5587	1.7	16.9689	2.1	0.2138	3.3	0.0276	0.6	0.18	175.4	1.0	196.7	6.0	461.4	72.7	175	1.0	NA
Spot 108	183	2629	1.7	13.2362	4.8	0.2670	7.8	0.0276	0.8	0.10	175.6	1.3	240.3	16.7	931.4	159.8	176	1.3	NA
Spot 105	410	6438	1.3	16.0977	2.4	0.2279	3.3	0.0276	0.6	0.19	175.7	1.1	208.5	6.3	597.1	70.6	176	1.1	NA
Spot 85	393	5502	2.1	16.4603	2.4	0.2211	4.0	0.0277	0.6	0.16	175.8	1.1	202.8	7.4	529.4	87.0	176	1.1	NA
Spot 25	363	2705	1.4	14.9240	2.7	0.2353	7.3	0.0277	0.8	0.11	175.9	1.4	214.5	14.2	663.2	156.5	176	1.4	NA
Spot 66	451	6798	1.6	17.1248	1.8	0.2153	4.1	0.0277	0.8	0.20	176.2	1.4	198.0	7.4	465.9	89.4	176	1.4	NA
Spot 1	480	7515	1.4	17.1685	2.0	0.2146	2.9	0.0277	1.0	0.35	176.4	1.8	197.4	5.3	456.2	61.1	176	1.8	NA
Spot 103	481	2265	1.4	15.7222	2.8	0.2185	7.3	0.0277	0.7	0.10	176.4	1.2	200.6	13.2	495				

Spot 36	480	51928	2.8	13.0540	0.6	2.0179	0.9	0.1915	0.5	0.62	1129.3	5.6	1121.6	5.9	1106.5	13.7	1107	13.7	102
Spot 72	149	17200	1.5	12.2829	0.9	2.3488	1.2	0.2110	0.6	0.49	1234.2	6.6	1227.2	8.6	1214.8	20.8	1215	20.8	102
Spot 63	269	42511	1.4	11.0076	0.6	3.2120	0.9	0.2569	0.6	0.66	1474.1	7.5	1460.1	6.6	1439.7	12.3	1440	12.3	102
Spot 53	341	5974	3.8	9.3617	0.9	4.3136	2.2	0.3000	0.7	0.31	1691.2	9.9	1696.0	17.8	1701.9	37.8	1702	37.8	99
Spot 76	363	40099	2.6	9.4089	0.6	4.5750	0.9	0.3128	0.6	0.67	1754.5	9.2	1744.7	7.4	1733.0	12.0	1733	12.0	101
Spot 69	143	28426	4.1	9.2746	0.7	4.6370	0.9	0.3128	0.6	0.60	1754.4	8.7	1756.0	7.8	1757.8	13.7	1758	13.7	100
Spot 21	630	116695	1.9	8.9779	0.6	5.0473	0.8	0.3292	0.6	0.72	1834.6	9.6	1827.3	7.0	1818.9	10.3	1819	10.3	101
Spot 95	638	68489	2.7	7.9874	0.7	5.7188	0.9	0.3326	0.6	0.66	1851.0	9.6	1934.2	7.8	2024.5	12.0	2025	12.0	91
Spot 65	297	86128	1.3	5.3281	0.6	13.7221	0.9	0.5298	0.6	0.70	2740.5	13.7	2730.7	8.3	2723.5	10.2	2723	10.2	101

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Spot 59	92	226	1.2	4.5907	15.1	0.0720	18.6	0.0032	0.5	0.03	20.8	0.1	70.6	12.7	2473.9	317.3	20.8	0.1	NA
Spot 145	183	436	1.7	5.2874	13.4	0.0741	20.3	0.0034	0.7	0.03	21.7	0.1	72.6	14.2	2452.4	347.9	21.7	0.1	NA
Spot 51	276	757	0.7	6.7222	13.5	0.0637	15.0	0.0035	0.6	0.04	22.7	0.1	62.7	9.1	2113.8	263.6	22.7	0.1	NA
Spot 36	181	436	1.3	5.0320	18.3	0.0835	20.2	0.0036	0.5	0.03	22.9	0.1	81.5	15.8	2558.3	342.5	22.9	0.1	NA
Spot 40	571	1168	0.9	8.9884	6.8	0.0492	9.8	0.0036	0.7	0.07	23.1	0.2	48.7	4.7	1610.4	182.5	23.1	0.2	NA
Spot 67	106	238	1.4	4.6625	11.7	0.0800	19.2	0.0036	1.0	0.05	23.1	0.2	78.1	14.5	2469.6	327.9	23.1	0.2	NA
Spot 141	137	321	1.2	4.3893	20.9	0.0949	23.1	0.0036	0.6	0.03	23.4	0.1	92.0	20.4	2739.1	386.4	23.4	0.1	NA
Spot 19	174	397	1.0	6.0245	13.5	0.0666	17.0	0.0036	0.5	0.03	23.4	0.1	65.4	10.8	2136.7	300.4	23.4	0.1	NA
Spot 112	258	159	2.0	4.7610	10.8	0.0642	32.6	0.0037	0.6	0.02	23.8	0.1	63.2	20.0	2044.7	593.5	23.8	0.1	NA
Spot 98	266	672	1.5	6.9899	11.5	0.0631	16.6	0.0037	0.6	0.03	23.9	0.1	62.1	10.0	2001.7	296.6	23.9	0.1	NA
Spot 70	259	748	1.0	6.1750	10.0	0.0743	12.9	0.0037	0.4	0.03	24.0	0.1	72.8	9.0	2281.4	222.2	24.0	0.1	NA
Spot 47	241	553	1.8	6.4234	13.8	0.0684	18.5	0.0038	0.7	0.04	24.3	0.2	67.2	12.0	2118.6	326.9	24.3	0.2	NA
Spot 87	141	327	0.8	4.6273	15.8	0.0927	19.4	0.0038	0.6	0.03	24.3	0.1	90.0	16.7	2634.7	325.8	24.3	0.1	NA
Spot 114	209	480	0.8	6.6922	8.9	0.0634	18.2	0.0038	0.6	0.04	24.4	0.2	62.4	11.0	1976.8	326.4	24.4	0.2	NA
Spot 13	463	562	0.7	9.0387	8.4	0.0447	24.3	0.0038	0.6	0.02	24.4	0.1	44.4	10.6	1327.3	477.4	24.4	0.1	NA
Spot 144	384	941	0.7	8.9611	9.0	0.0506	10.9	0.0038	0.5	0.05	24.4	0.1	50.1	5.3	1560.4	204.9	24.4	0.1	NA
Spot 45	379	894	1.2	8.3014	7.0	0.0552	9.5	0.0038	0.5	0.05	24.6	0.1	54.6	5.0	1712.8	174.2	24.6	0.1	NA
Spot 128	1424	2045	1.1	14.1966	3.9	0.0334	11.3	0.0038	0.7	0.06	24.6	0.2	33.4	3.7	719.2	239.9	24.6	0.2	NA
Spot 55	308	773	0.9	7.1243	11.8	0.0651	12.3	0.0038	0.5	0.04	24.7	0.1	64.0	7.6	2000.9	218.5	24.7	0.1	NA
Spot 83	212	499	1.1	6.1920	14.5	0.0713	17.1	0.0038	0.6	0.03	24.7	0.1	69.9	11.5	2161.0	299.9	24.7	0.1	NA
Spot 1	566	1308	1.4	10.4992	7.1	0.0448	8.4	0.0038	0.5	0.06	24.7	0.1	44.5	3.6	1305.8	162.7	24.7	0.1	NA
Spot 136	437	1105	0.8	7.6426	8.8	0.0629	10.8	0.0038	0.6	0.06	24.8	0.2	61.9	6.5	1935.3	193.5	24.8	0.2	NA
Spot 64	417	1141	1.5	8.0591	11.0	0.0595	11.6	0.0039	0.6	0.05	24.8	0.2	58.7	6.6	1834.2	209.9	24.8	0.2	NA
Spot 17	226	584	1.5	5.3992	13.5	0.0871	17.7	0.0039	0.6	0.03	24.9	0.1	84.8	14.4	2491.6	301.1	24.9	0.1	NA
Spot 105	880	1773	0.8	12.6525	4.7	0.0378	9.9	0.0039	0.7	0.07	24.9	0.2	37.7	3.7	954.2	203.3	24.9	0.2	NA
Spot 5	306	696	1.0	6.5008	11.0	0.0721	11.6	0.0039	0.5	0.04	24.9	0.1	70.7	7.9	2163.9	202.1	24.9	0.1	NA
Spot 102	1012	2140	1.1	13.1560	4.2	0.0370	10.1	0.0039	0.5	0.05	25.0	0.1	36.9	3.7	908.1	208.5	25.0	0.1	NA
Spot 79	558	454	1.1	9.1688	6.3	0.0415	26.1	0.0039	0.7	0.03	25.0	0.2	41.3	10.5	1133.7	527.2	25.0	0.2	NA
Spot 126	1144	2162	1.4	13.6715	4.0	0.0356	6.7	0.0039	0.5	0.07	25.0	0.1	35.5	2.3	819.5	138.8	25.0	0.1	NA
Spot 122	2842	1138	0.8	15.4169	2.7	0.0278	10.5	0.0039	0.6	0.06	25.1	0.2	27.9	2.9	278.2	241.2	25.1	0.2	NA
Spot 16	320	822	0.9	7.7928	13.0	0.0600	13.6	0.0039	0.6	0.04	25.1	0.2	59.1	7.8	1827.2	248.3	25.1	0.2	NA
Spot 116	511	1320	1.6	9.4303	7.5	0.0513	10.1	0.0039	0.5	0.05	25.1	0.1	50.8	5.0	1536.6	189.8	25.1	0.1	NA
Spot 88	1992	4872	1.6	17.2391	2.4	0.0295	4.5	0.0039	0.7	0.16	25.1	0.2	29.6	1.3	410.5	99.4	25.1	0.2	NA
Spot 72	220	503	0.9	6.4516	12.2	0.0691	17.0	0.0039	0.6	0.04	25.1	0.2	67.8	11.2	2077.4	301.4	25.1	0.2	NA
Spot 8	322	814	0.8	7.5308	9.3	0.0625	12.9	0.0039	0.6	0.05	25.1	0.2	61.5	7.7	1897.5	232.8	25.1	0.2	NA
Spot 130	1513	3699	1.7	14.7393	3.6	0.0344	6.7	0.0039	0.6	0.08	25.2	0.1	34.4	2.3	739.0	141.1	25.2	0.1	NA
Spot 148	866	2035	1.2	13.3578	4.8	0.0365	6.1	0.0039	0.7	0.12	25.2	0.2	36.4	2.2	857.2	125.0	25.2	0.2	NA
Spot 109	370	841	0.8	8.0341	9.1	0.0585	16.3	0.0039	0.5	0.03	25.2	0.1	57.7	9.1	1769.4	298.8	25.2	0.1	NA
Spot 12	2994	5963	0.6	17.3819	1.9	0.0296	3.6	0.0039	0.7	0.18	25.2	0.2	29.6	1.0	404.2	79.1	25.2	0.2	NA
Spot 66	621	1634	1.3	11.1916	6.6	0.0437	11.7	0.0039	0.7	0.06	25.3	0.2	43.4	5.0	1212.8	230.0	25.3	0.2	NA
Spot 42	1665	4586	1.2	14.9868	3.8	0.0344	5.2	0.0039	0.6	0.12	25.3	0.2	34.3	1.8	723.7	109.4	25.3	0.2	NA
Spot 23	549	1417	0.7	10.7837	9.1	0.0449	10.2	0.0039	0.6	0.06	25.3	0.2	44.6	4.5	1264.3	199.7	25.3	0.2	NA
Spot 117	2342	5079	1.0	16.9857	2.6	0.0303	5.4	0.0039	0.5	0.10	25.3	0.1	30.3	1.6	449.9	119.1	25.3	0.1	NA
Spot 146	523	1255	1.7	8.5875	8.0	0.0571	10.9	0.0039	0.6	0.06	25.3	0.2	56.4	6.0	1719.4	200.5	25.3	0.2	NA
Spot 29	725	1761	1.7	12.1762	6.4	0.0401	7.7	0.0039	0.6	0.08	25.4	0.2	39.9	3.0	1038.0	155.0	25.4	0.2	NA
Spot 115	708	1606	0.7	12.0702	5.8	0.0402	13.2	0.0040	0.6	0.05	25.4	0.2	40.1	5.2	1038.3	267.0	25.4	0.2	NA
Spot 57	441	1197	0.8	9.1716	8.1	0.0531	9.5	0.0040	0.5	0.06	25.4	0.1	52.5	4.9	1575.9	178.0	25.4	0.1	NA
Spot 63	609	1660	1.4	9.7484	7.0	0.0515	8.8	0.0040	0.5	0.06	25.6	0.1	51.0	4.4	1510.1	166.0	25.6	0.1	NA
Spot 132	910	2290	1.5	13.1931	4.8	0.0381	8.5	0.0040	0.6	0.07	25.6	0.1	37.9	3.1	913.9	173.8	25.6	0.1	NA
Spot 43	243	658	1.1	6.4838	11.2	0.0734	13.3	0.0040	0.5	0.04	25.6	0.1	71.9	9.2	2151.0	233.2	25.6	0.1	NA
Spot 123	177	532	1.0	5.5260	15.3	0.0859	16.3	0.0040	0.6	0.04	25.6	0.1	83.7	13.1	2421.2	279.3	25.6	0.1	NA
Spot 111	638	1426	1.0	11.7810	7.0	0.0410	9.6	0.0040	0.6	0.06	25.6	0.1	40.8	3.8	1064.6	192.7	25.6	0.1	NA
Spot 15	184	547	1.2	5.6514	15.1	0.0841	16.7	0.0040	0.6	0.04	25.6	0.2	82.0	13.2	2384.0	287.3	25.6	0.2	NA
Spot 49	1068	2991	0.6	13.3169	5.9	0.0385	6.4	0.0040	0.6	0.09	25.6	0.1	38.4	2.4	935.0	130.4	25.6	0.1	NA
Spot 50	664	1111	1.1	11.4584	5.6	0.0408	10.0	0.0040	0.6	0.06	25.6	0.1	40.6	4.0	1051.0	202.1	25.6	0.1	NA
Spot 54	1479	3649	1.6	15.9255	2.4	0.0323	2.9	0.0040	0.5	0.18	25.6	0.1	32.3	0.9	559.3	62.5	25.6	0.1	NA
Spot 25	4439	10921	0.8	19.1633	1.3	0.0279	2.9	0.0040	0.7	0.24	25.6	0.2	27.9	0.8	228.7	64.8	25.6	0.2	NA
Spot 92	284	686	1.3	5.7385	13.1	0.0855	14.0	0.0040	0.6	0.04	25.6	0.1	83.3	11.2	2407.7	239.2	25.6	0.1	NA
Spot 110	2331	4849	1.3	16.8986	2.1	0.0309	2.6	0.0040	0.6	0.21	25.7	0.1	30.9	0.8	458.0	57.2	25.7	0.1	NA
Spot 46	262	671	1.1	6.2083	12.9	0.0377	18.5	0.0040	0.6	0.03	25.7	0.2	76.0	13.5	2244.1	322.0	25.7	0.2	NA
Spot 58	1852	3999	1.4	15.1269	2.9	0.0345	4.2	0.0040	0.5	0.12	25.8	0.1	34.4	1.4	690.6	88.8	25.8	0.1	NA
Spot 95	932	2412	1.1	11.3807	5.2	0.0453	7.3	0.0040	0.6	0.08	25.8	0.2	45.0	3.2	1246.3	141.9	25.8	0.2	NA
Spot 37	1834	3063	1.5	15.7208	3.1	0.0325	6.8	0.0040	0.6	0.09	25.8	0.2	32.5	2.2	561.1	148.6	25.8	0.2	NA
Spot 34	515	1297	1.0	9.2500	7.4	0.0538	10.0	0.0040	0.8	0.08	25.8	0.2	53.2	5.2	1575.1	186.9	25.8	0.2	NA
Spot 139	1222	2947	1.7	14.8127	3.7	0.0345	4.9	0.0040	0.9	0.17	25.8	0.2	34.5	1.7	691.0	103.6	25.8	0.2	NA
Spot 6	731	1528	0.6	10.1088	7.2	0.0497	8.0	0.0040	0.5										

Spot 106	250	744	1.0	4.9912	18.0	0.1050	18.5	0.0041	0.6	0.03	26.7	0.2	101.4	17.9	2687.1	308.9	26.7	0.2	NA
Spot 86	600	1596	1.5	10.8307	5.9	0.0479	8.0	0.0042	0.6	0.08	26.9	0.2	47.5	3.7	1275.1	156.0	26.9	0.2	NA
Spot 48	482	1252	1.2	9.6517	7.9	0.0534	9.5	0.0042	0.7	0.07	27.0	0.2	52.8	4.9	1474.9	181.0	27.0	0.2	NA
Spot 41	657	1577	0.9	11.1606	8.6	0.0466	10.1	0.0042	0.5	0.05	27.0	0.1	46.2	4.6	1209.0	198.7	27.0	0.1	NA
Spot 149	132	341	1.2	5.0403	18.6	0.0932	22.9	0.0042	0.5	0.02	27.0	0.1	90.5	19.8	2465.0	392.7	27.0	0.1	NA
Spot 143	690	1702	1.0	12.4683	5.2	0.0418	7.7	0.0042	0.6	0.08	27.3	0.2	41.6	3.1	973.8	156.1	27.3	0.2	NA
Spot 24	1466	4172	1.9	14.6903	4.1	0.0378	5.9	0.0043	0.8	0.14	27.4	0.2	37.7	2.2	757.3	123.4	27.4	0.2	NA
Spot 93	208	512	1.4	6.9778	15.3	0.0689	23.1	0.0043	0.6	0.03	27.5	0.2	67.6	15.1	1909.8	420.5	27.5	0.2	NA
Spot 129	1328	3948	1.8	13.8682	4.4	0.0405	5.0	0.0043	0.6	0.12	27.6	0.2	40.3	2.0	882.2	102.7	27.6	0.2	NA
Spot 4	934	1103	2.4	11.6784	5.3	0.0435	12.4	0.0043	0.6	0.04	27.9	0.2	43.2	5.2	1005.2	251.3	27.9	0.2	NA
Spot 100	289	898	2.1	7.4154	10.3	0.0721	10.8	0.0044	0.7	0.07	28.0	0.2	70.6	7.4	1955.3	193.8	28.0	0.2	NA
Spot 27	263	769	0.8	7.3076	10.1	0.0731	13.0	0.0045	0.5	0.04	28.6	0.1	71.7	9.0	1943.4	233.4	28.6	0.1	NA
Spot 91	417	1069	2.3	9.5164	7.6	0.0570	8.3	0.0045	0.5	0.06	28.9	0.1	56.2	4.5	1466.5	157.3	28.9	0.1	NA
Spot 90	350	1019	1.5	9.3946	7.7	0.0574	11.3	0.0045	0.6	0.05	28.9	0.2	56.7	6.2	1481.6	214.8	28.9	0.2	NA
Spot 7	1012	2871	1.7	13.4027	4.0	0.0437	7.0	0.0046	0.5	0.07	29.3	0.1	43.5	3.0	917.8	143.9	29.3	0.1	NA
Spot 97	1034	3632	2.2	13.5544	4.1	0.0442	6.3	0.0046	0.6	0.10	29.6	0.2	43.9	2.7	923.7	127.9	29.6	0.2	NA
Spot 85	349	920	1.4	8.1026	10.7	0.0707	11.5	0.0047	0.7	0.06	30.5	0.2	69.4	7.7	1770.8	210.9	30.5	0.2	NA
Spot 73	660	1755	0.8	11.0596	5.5	0.0624	10.5	0.0055	0.7	0.07	35.4	0.3	61.5	6.3	1252.3	205.6	35.4	0.3	NA
Spot 74	1634	16803	4.0	19.5851	1.3	0.1148	1.8	0.0166	0.6	0.32	106.3	0.6	110.3	1.9	199.2	40.4	106	0.6	NA
Spot 33	723	6279	1.2	18.1843	1.3	0.1707	1.8	0.0235	0.5	0.27	150.0	0.7	160.0	2.7	311.7	39.8	150	0.7	NA
Spot 142	272	5179	1.2	16.3501	2.7	0.1985	4.2	0.0248	0.7	0.16	157.6	1.0	183.9	7.0	537.3	89.7	158	1.0	NA
Spot 121	188	2866	1.9	13.7202	4.6	0.2334	6.1	0.0250	0.5	0.09	159.2	0.8	213.0	11.7	860.0	126.5	159	0.8	NA
Spot 2	363	5594	1.5	16.6552	2.2	0.2000	3.4	0.0252	0.5	0.15	160.7	0.8	185.1	5.7	510.9	73.5	161	0.8	NA
Spot 99	272	4185	1.2	14.9544	3.2	0.2217	4.0	0.0254	0.6	0.14	161.4	0.9	203.3	7.4	722.7	84.8	161	0.9	NA
Spot 89	480	7966	1.2	17.6457	1.9	0.1916	3.0	0.0254	0.5	0.18	161.5	0.9	178.0	5.0	403.6	67.2	161	0.9	NA
Spot 61	312	4830	1.3	15.2884	2.4	0.2195	4.0	0.0255	0.8	0.20	162.6	1.3	201.5	7.3	687.0	83.2	163	1.3	NA
Spot 104	1524	22914	1.6	19.6204	0.9	0.1786	1.3	0.0258	0.6	0.50	164.0	1.0	166.9	1.9	208.0	25.5	164	1.0	NA
Spot 65	264	3193	1.3	14.8268	3.8	0.2236	6.2	0.0258	0.9	0.15	164.2	1.5	204.9	11.4	704.1	129.8	164	1.5	NA
Spot 21	827	11589	1.4	18.8526	1.2	0.1852	1.7	0.0259	0.5	0.31	165.0	0.9	172.5	2.7	277.8	37.7	165	0.9	NA
Spot 53	371	6451	1.0	17.1105	2.2	0.2007	4.5	0.0259	0.5	0.12	165.1	0.9	185.7	7.7	457.7	99.9	165	0.9	NA
Spot 56	498	8065	1.7	17.5311	1.9	0.1976	2.9	0.0260	0.7	0.24	165.2	1.2	183.1	4.9	421.0	63.8	165	1.2	NA
Spot 62	321	5118	1.6	15.9789	2.5	0.2150	4.6	0.0261	0.6	0.13	166.3	1.0	197.8	8.3	593.0	99.3	166	1.0	NA
Spot 82	796	12392	2.1	19.1836	1.3	0.1861	2.6	0.0266	0.5	0.21	169.3	0.9	173.3	4.2	229.3	59.2	169	0.9	NA
Spot 78	662	7386	1.0	17.8629	1.6	0.1979	3.0	0.0267	0.6	0.20	169.7	1.0	183.4	5.0	365.0	65.3	170	1.0	NA
Spot 101	302	4044	1.1	15.1754	3.0	0.2327	4.8	0.0271	0.5	0.11	172.3	0.9	212.5	9.3	685.6	103.0	172	0.9	NA
Spot 119	522	9029	1.6	17.7764	1.8	0.2039	3.1	0.0271	0.5	0.17	172.6	0.9	188.4	5.4	392.4	68.8	173	0.9	NA
Spot 120	479	9079	1.3	17.2413	2.0	0.2109	2.9	0.0272	0.7	0.23	173.0	1.1	194.3	5.1	463.1	61.8	173	1.1	NA
Spot 14	510	8268	1.3	17.4924	2.1	0.2076	3.3	0.0272	0.5	0.15	173.1	0.8	191.5	5.7	426.1	72.1	173	0.8	NA
Spot 35	547	7439	1.4	17.6898	1.8	0.2048	3.1	0.0272	0.5	0.17	173.2	0.9	189.2	5.3	393.8	68.5	173	0.9	NA
Spot 39	395	4880	1.0	16.8999	2.0	0.2109	2.8	0.0273	0.6	0.22	173.5	1.1	194.3	4.9	455.8	60.3	173	1.1	NA
Spot 76	494	7053	1.7	17.7615	2.0	0.2035	2.6	0.0273	0.6	0.21	173.7	1.0	188.1	4.5	374.4	57.6	174	1.0	NA
Spot 18	802	11680	1.2	18.8683	1.4	0.1946	1.9	0.0273	0.5	0.26	173.7	0.9	180.6	3.1	272.0	41.8	174	0.9	NA
Spot 108	455	2966	1.6	17.6289	2.1	0.1951	4.5	0.0274	0.5	0.12	174.0	0.9	181.0	7.5	274.4	102.8	174	0.9	NA
Spot 3	482	7726	1.5	17.4445	1.7	0.2093	2.3	0.0274	0.5	0.24	174.1	0.9	193.0	4.0	430.7	49.3	174	0.9	NA
Spot 96	826	13068	1.5	18.9020	1.4	0.1964	2.0	0.0275	0.8	0.43	174.9	1.5	182.0	3.3	276.4	40.8	175	1.5	NA
Spot 107	3145	8247	2.1	18.9059	0.9	0.2187	1.4	0.0311	0.8	0.58	197.3	1.6	200.9	2.6	243.9	27.2	197	1.6	NA
Spot 140	920	16011	1.8	19.5983	1.0	0.2335	1.3	0.0339	0.5	0.41	214.7	1.1	213.1	2.6	196.3	28.4	215	1.1	NA
Spot 138	1852	34136	2.9	19.3243	1.2	0.2428	1.6	0.0344	1.0	0.63	217.9	2.2	220.7	3.3	251.6	29.4	218	2.2	NA
Spot 150	2298	45679	2.8	19.5014	0.7	0.2416	1.0	0.0345	0.6	0.63	218.6	1.3	219.7	1.9	232.3	17.4	219	1.3	NA
Spot 113	1529	29928	2.7	19.4265	0.9	0.2426	1.1	0.0346	0.6	0.55	219.0	1.4	220.6	2.3	238.6	22.1	219	1.4	NA
Spot 77	2622	65572	2.2	19.6599	0.7	0.2406	0.9	0.0346	0.5	0.58	219.1	1.2	218.9	1.9	218.3	17.8	219	1.2	NA
Spot 10	2036	41942	3.3	19.5173	0.7	0.2432	0.9	0.0347	0.6	0.62	219.9	1.3	221.0	1.9	234.2	17.0	220	1.3	NA
Spot 31	899	2956	2.1	17.3592	1.7	0.2517	7.5	0.0348	0.6	0.09	220.3	1.4	228.0	15.3	309.3	169.7	220	1.4	NA
Spot 103	1878	37748	3.6	19.5797	0.8	0.2433	1.0	0.0348	0.6	0.58	220.8	1.3	221.1	2.0	226.1	19.1	221	1.3	NA
Spot 11	1566	33501	2.8	19.5778	0.8	0.2437	1.2	0.0350	0.6	0.50	222.1	1.3	221.5	2.3	215.9	23.5	222	1.3	NA
Spot 94	1478	17919	2.8	19.4328	0.9	0.2447	1.6	0.0351	0.7	0.44	222.1	1.5	222.3	3.2	225.0	33.0	222	1.5	NA
Spot 68	1454	19255	2.9	19.3653	0.8	0.2468	1.1	0.0352	0.6	0.53	223.2	1.3	224.0	2.2	233.8	21.0	223	1.3	NA
Spot 124	1250	17224	2.2	18.9637	0.8	0.2521	1.2	0.0353	0.5	0.37	223.5	1.0	228.3	2.5	278.2	26.3	224	1.0	NA
Spot 38	2447	43842	1.5	19.6559	0.7	0.2468	0.9	0.0355	0.5	0.57	224.6	1.1	224.0	1.8	217.9	17.2	225	1.1	NA
Spot 81	1036	19090	2.0	19.1179	1.0	0.2516	1.6	0.0355	0.6	0.39	224.9	1.4	227.8	3.4	259.4	34.9	225	1.4	NA
Spot 30	2675	62171	2.4	19.6183	0.7	0.2489	0.9	0.0357	0.6	0.61	225.9	1.3	225.7	1.9	224.3	17.3	226	1.3	NA
Spot 75	3421	69812	2.1	19.5897	0.6	0.2500	0.8	0.0358	0.5	0.64	226.6	1.2	226.5	1.7	227.2	14.9	227	1.2	NA
Spot 69	1243	27910	2.3	19.2961	0.9	0.2531	1.2	0.0358	0.7	0.54	226.8	1.5	229.1	2.5	254.4	23.4	227	1.5	NA
Spot 20	3308	79302	2.8	19.6703	0.6	0.2526	0.8	0.0361	0.5	0.63	228.9	1.2	228.7	1.7	227.2	15.2	229	1.2	NA
Spot 135	1262	28901	2.3	19.3160	1.2	0.2581	1.8	0.0366	1.0	0.54	231.4	2.2	233.1	3.8	251.1	35.0	231	2.2	NA
Spot 60	233	81321	2.0	4.1998	0.6	20.4790	0.8	0.6248	0.6	0.70	3129.0	14.4	3114.3	8.0	3105.5	9.3	3105	9.3	101

Supplemental Data (Miller, Raftrey and Lund Snee)

Appendix S1

Description of samples and calculation of Maximum Depositional Ages (MDA)

Detrital zircon samples were processed using standard zircon separation techniques involving crushing, grinding, Gemini water table concentration of high-density components, magnetic separation and density separation. Concentrated zircon separates were mounted at the University of Arizona Department of Geosciences LaserChron Center. Mounted separates were imaged by BSE for zircon identification. The primary standard for all samples was Sri Lanka (SL) zircon (563 Ma $^{206}\text{Pb}/^{238}\text{U}$ age). Samples were run in two sessions, both on a Nu Plasma HR multicollector ICPMS with a Photon Machines G2 excimer laser. Between 100 and 150 zircon grains were analyzed from detrital zircon samples, and ~25 zircons were analyzed from tuff samples. All analyses used a 30 μm laser spot. Grains were selected for analysis by a random walk transect across the BSE images. Data reduction for the first set of analyses was done using the Laserchron agecalc excel program. Data from the second session were reduced using the Nutragecalc program of Sundell (2019). Kernel density estimate plots were created using the IsoplotR program of Vermeesch (2018) and are shown in Figures S1, S3 and S5. We report $^{206}\text{Pb}/^{238}\text{U}$ results for ages less than 900 Ma and $^{206}\text{Pb}/^{207}\text{Pb}$ ages for older zircons. Results were excluded from further analysis based on > 600 CPS ^{204}Pb , $>10\%$ uncertainty in $^{206}\text{Pb}/^{238}\text{U}$ and $^{206}\text{Pb}/^{207}\text{Pb}$ ages, $>20\%$ discordance and $>10\%$ reverse discordance in ages > 600 Ma. Supplemental Data Table S1 lists results used in our discussion of the data.

A benefit of measuring detrital zircon U-Pb age distributions is that results can be used to place a maximum bound upon the depositional age of the sample following Dickinson and Gehrels (2009). While there are various statistical methods that can be applied to systematically calculate the maximum depositional age bound for a detrital zircon sample, it should be borne in mind that none of these guarantee that an MDA will approximate the true depositional age of a sample because the youngest grains could be far older than the age of deposition of their host rocks. From a general geologic perspective, however, volcanism was semi-continuous from the Eocene to the present-day across much of what was to become the Basin and Range Province (Fig. 2) so that the likelihood of sediments deposited during that age

span being much younger than their youngest included zircons is likely small, but still quite possible. In most cases, the weighted mean of a small set of young grains overlapping in age within 1σ error (YC 1σ) is reported as the MDA. The grains selected for estimating each MDA were chosen such that grain ages overlap within 1σ error of each other, they form a discrete cluster of ages from the rest of the young ages, and they do not have high U (an indicator of possible radiation damage and consequent lead loss). Further evaluation of whether a given set of young ages represents a discrete group comes from their U/Th ratios, which can be affected by crustal heritage or interaction with metamorphic fluids. If the U/Th ratios of grains forming the YC 1σ group are appreciably different from those of the rest of the young ages, this supports considering them as a discrete group and the ability to use their weighted mean as the MDA for the sample. In cases where there is no set of overlapping young ages, the youngest single grain (YSG) from a set of detrital zircon ages is used as an estimate of the MDA (see Dickinson and Gehrels, 2009). We emphasize that the YSG age is the least reliable of the methods used here and is only used where the youngest single grain does not have high U which is a measure of potential radiation damage and thus lead loss.

The following section describes the location of each of the samples and the basis for determination of the MDA's (Figs. S2, 4, 6) shown in the stratigraphic columns of Figure 4 of the main text. The most important consideration is that the volcanic highlands that sourced the zircons become younger southward with time, thus it would be difficult for a younger sediment to include only older zircon as the river system that transported the sediments would have to traverse younger volcanic rocks on their way to Death Valley. The following text and figures describe the location of our samples and the basis for determination of the MDA's or preferred ages shown in the stratigraphic columns of Figure 4 of the main text.

A. Titus Canyon Reference Section, Grapevine Mountains

Seven samples were analyzed from the Titus Canyon Formation reference section (Table S1, Fig. 5-geomap) initially described by Reynolds (1969) and then mapped and discussed by Snow and Lux (1999) and Niemi (2002). Following the unit reassignments of Snow and Lux (1999) and Niemi (2002), one of these samples is now considered part of the Panuga Formation, and another is from the Wahguyhe Formation (Fig. 5-geomap).

The section unconformably overlies Cambrian limestone of the Bonanza King Formation at the head of Titus Canyon (Fig. 5-geomap).

A sample from red bed sandstones interlayered with the top of the basal sedimentary breccia within meters of the base of the formation (Fig. 5-geomap) (ELM18DVTC-8, $n=147$) yielded zircons as young as 66.2 ± 7.5 Ma with prominent age peaks at 90 Ma, 163 Ma, 174 Ma and 223 Ma (Fig. S1). The youngest grain with an age of 66.2 ± 7.5 Ma does not form a coherent group with any other grains from this sample. Its uranium concentration and U/Th value do not differ from those of the next youngest group of grains, and thus do not support considering this grain as part of a separate population. The next two youngest grains (spots 55 and 105, Table S1) yield a weighted mean age of 86.8 ± 0.7 Ma (MSWD = 0.19) (Fig. S2). These grains do not overlap with the ages of the next oldest grain within uncertainty, and they have U/Th values that overlap within error of each other but are lower than and do not overlap those of the next youngest grains. Also, uranium concentrations are not systematically different from other young grains, suggesting that lead loss is not a factor in these ages. Accordingly, 86.8 ± 0.7 Ma is the preferred maximum depositional age for these sediments deposited at the very base of the Titus Canyon Formation. These strata are thus bracketed in age between the Late Cretaceous and the Late Middle Eocene age of the oldest fossils reported for the Titus Canyon Formation (Lander, 2019). Proterozoic grains are present (Fig. S1) but do not constitute a significant fraction of the sample ($n=13$). They lie between 1050 Ma and 1873 Ma and have minor groups at 1076 Ma, 1372 Ma and 1780 Ma.

Sample ELM18DVTC-1, although located some distance away from ELM18DVTC-8 (Fig. 5-geomap), is inferred to lie stratigraphically above ELM18DVTC-8 because it was sampled from sandstone interbedded with conglomerate that contains abundant well-rounded black chert pebbles, signaling an abrupt change in source area and sediment delivery rate. It contains only two Cenozoic grains, which do not overlap in age within error (Figs. S1, S2). The youngest grain has comparable uranium and U/Th values to the other Cenozoic grain (Fig. S2). The uranium concentration of the youngest grain is not significantly different from that of comparably aged grains from other samples collected in the section, suggesting that lead loss is not a factor in the age of this grain. Hence, the age of the youngest grain (36.27 ± 0.18 Ma) is

considered a preferred MDA for this sample (Fig. S2). Overall, major peaks occur at 163 Ma and 174 Ma, with fewer grains at 38 Ma ($n = 2$), 90 Ma, 107 Ma, 221 Ma and 227 Ma (Fig. S1). Only three Proterozoic grains were dated at 1099 Ma, 1773 Ma and 2094 Ma (Fig. S1).

Sample ELM18DVTC-2 ($n=116$) (Fig. 5-geomap) from sandstone interbedded with chert pebble conglomerate has a youngest age peak at 35 Ma and few Mesozoic grains (Fig. S1). The youngest grain in this sample (25.9 ± 0.1 Ma) is not considered an accurate MDA based on a lack of other overlapping grains, high ^{204}Pb and low $^{206}\text{Pb}/^{204}\text{Pb}$ (Table S1). An MDA of 33.0 ± 0.3 Ma was calculated from an overlapping group of 3 grains (Fig. S2). These grains form a unique peak on the KDE of the Cenozoic ages, have similar U/Th values and do not have especially high uranium measurements. Grains younger than those used for the MDA calculation for this sample that overlap in age do not form groups of more than two grains, do not have U/Th values that suggest they are of a distinct population, or they include a grain (spot 81, Table S1) with high uranium relative to other grains that suggests it may have experienced lead loss. Small Paleozoic-Precambrian peaks occur at 409 Ma, 1138 Ma and 1802 Ma (Fig. S2).

The next sample collected above this in the section, ELM18DVTC-6 ($n=114$) (Fig. 5-geomap) was from the top of a series of coarse massive sandstone beds that are greenish in color due to celadonitic alteration. This sample has prominent Cenozoic and Mesozoic age peaks at 34 Ma and 160 Ma, with sparse grains yielding ages between these two maxima (Fig. S1). An MDA of 32.3 ± 0.3 Ma was estimated from a weighted average of two overlapping grains with identical U/Th and no evidence of lead loss. The youngest grain from this sample is 29.9 ± 0.2 Ma and does not have evidence for lead loss (Fig. S2) but does not overlap in age within error of any other grains. Older grains form larger coherent overlapping age groups, but these are older than the MDA of the stratigraphically lower sample ELM18DVTC-2 (Fig. S2). Sample ELM18DVTC-6 has the most Proterozoic grains of all samples dated in the reference section ($n=30$), and these older zircons define peaks at 478 Ma, 1085 Ma and 1776 Ma (Fig. S1).

ELM18DVTC-7 ($n=116$) is the stratigraphically highest sample analyzed from the Titus Canyon Formation in the reference section (Fig. 5-geomap) (the highest part of the variegated facies of the Titus Canyon Formation of Reynolds, 1969). The sample comes

from fine-grained sandstone interlayered with slightly calcareous siltstone and silty limestone likely deposited in a lacustrine environment. The YC1 σ contains only two grains whose weighted average age (22.7 ± 0.2 Ma) has an MSWD > 1 (2.3), and whose U/Th ratios are dissimilar. A group of 11 grains that overlap at 1 σ yield an MDA of 23.7 ± 0.1 Ma (MSWD = 0.47), making this the preferred MDA for the sample (Fig. S2). The youngest single grain age is 7.0 ± 0.04 Ma but is rejected based on high ^{204}Pb and low $^{206}\text{Pb}/^{204}\text{Pb}$ (spot 110, Table S1).

One sample (ELM18DVTC-10, n=145) was analyzed from the overlying Panuga Formation of Niemi (2002) or green unit of Reynolds (1969) (Fig. 5-geomap). The sample is inferred to come from the “crystal marker tuff” near the top of the Panuga Formation of Niemi (2002). Snow and Lux (1999) dated the tuff as 15.7 Ma by the $^{40}\text{Ar}/^{39}\text{Ar}$ method on sanidine. It has a dominant age peak of 16 Ma (Fig. S1). The YC1 σ MDA is 10.8 ± 0.1 Ma (MSWD = 0.0017, n=2). The youngest single grain age of 0.07 Ma (spot 72, Table S1) is considered erroneous because of maximum depositional age constraints of overlying units. We interpret 16 Ma as the MDA for this sample based on existing geochronology and the age of overlying units, but use the preferred age of 15.7 Ma reported on by Snow and Lux (1999) and Niemi (2002).

The stratigraphically highest sample analyzed, ELM18DVTC-12 (n=17) (Fig. 5-geomap), is from a reworked air fall tuff deposited in a lacustrine environment within the overlying basal units of the Wahguyhe Formation (Niemi, 2002) and has an age peak of 15 Ma (Fig. S1). It has a weighted average from the youngest 14 grains of 14.4 ± 0.3 Ma (MSWD = 0.24) (Fig. S2).

B. Headwaters of Monarch Canyon, northern Funeral Mountains

Four samples were analyzed from the Titus Canyon Formation near the head of Monarch Canyon, previously mapped by Saylor (1991) (Fig. 6-geomap). Sample ELM15MC-10 (n=116) is from red beds within the sedimentary breccia at the base of the formation (Fig. 6-geomap), and has prominent age peaks at 102 Ma, 174 Ma and 225 Ma (Fig. S3). The youngest five grains in this sample yield a YC1 σ MDA of 98.9 ± 1.6 Ma (Fig. S4), and the youngest single zircon age is 93.6 ± 1.0 Ma. Eight Proterozoic grains were measured, with grain ages from 1006 Ma to 1781 Ma (Fig. S3). This sample is

bracketed in age between the Late Cretaceous and the Late Middle Eocene age of the oldest fossils in the Titus Canyon Formation (Lander, 2019).

Sample ELM15MC-16 (n=99), along strike from MC-10 at the base of the Titus Canyon Formation (Fig. 6-geomap) has Mesozoic age peaks at 86 Ma, 165 Ma and 218 Ma (Fig. S3). The youngest three grains yield a YC1 σ of 83.3 ± 1.6 Ma (MSWD = 0.03) (Fig. S4). The youngest single zircon age is 83.1 ± 1.4 Ma. Paleozoic to Precambrian grains (n=34) exhibit peaks at 399 Ma, 1107 Ma, 1439 Ma and 1777 Ma, with four older grains between 1995 Ma and 2857 Ma (Fig. S3). This sample is bracketed in age between the Late Cretaceous and the Late Middle Eocene age of the oldest fossils in the Titus Canyon Formation (Lander, 2019).

ELM15MC-11 (n=112) (Fig. 6-geomap) was collected from sandstone interbedded with chert-rich pebble conglomerate. Its younger zircons exhibit age peaks at 35 Ma, 103 Ma, 164 Ma and 224 Ma (Fig. S3). A group of 13 grains yield a YC1 σ MDA of 35.9 ± 0.3 Ma (MSWD = 0.31), and the youngest single grain age is 33.4 ± 1.3 Ma (Fig. S4). This sample has a relatively large proportion of Paleozoic-Precambrian grains (n=48), with age peaks at 440 Ma, 1108 Ma, 1405 Ma, 1717 Ma, 1858 Ma and 2582 Ma (Fig. S3).

The structurally highest sample from this section, ELM15MC-12 (n=107) (Fig. 5-geomap), has age peaks at 34 Ma, 90 Ma, 163 Ma and 215 Ma (Fig. S5). Paleozoic-Precambrian grains (n=17) form a peak at 1092 Ma, with additional grains between 562 Ma and 2715 Ma. The youngest 16 grains yield a YC1 σ MDA of 33.61 ± 0.49 Ma and the youngest single grain age is 32.2 ± 2.1 Ma (Fig. S4). The top of the section is a normal fault that downdrops the Titus Canyon Formation against the Stirling Quartzite, across which it was once deposited (Fig. S4).

C. Boundary Canyon Fault (BCF) Klippe

Five samples were analyzed from the Cenozoic sedimentary section exposed in the upper plate klippe of the BCF in the central Funeral Mountains previously mapped by Wright and Troxel (1993)(Fig. 7-geomap). This section contains a range of sedimentary lithologies with intercalated ash flow and air fall tuffs (Fig. 7-geomap) similar to those

present in the Titus Canyon Formation proper and the Panuga Formation of the type section in Titus Canyon (Reynolds, 1969; Niemi, 2002; Snow and Lux, 1999) but were not correlated in detail to this stratigraphy by Wright and Troxel (1993). The lower part of the section (map unit Ttss) (Fig. 7-geomap) has an exposed thickness of ~100m and consists of conglomerate, sandstone and tuffaceous sandstone, with minor lacustrine limestone, siltstone and tuff. The middle part of the section (Ttsc) is ~200m thick and is dominated by deep red sandstone, siltstone and conglomerate. The upper part of the section (Ttsl) has an exposed thickness of ~125m and consists of siltstone interbedded with lacustrine limestone and air fall tuff (top is erosional and/or a fault) (Fig. 7-geomap). Throughout the section there is evidence of large-scale channelization, with rapid lateral variations in thickness. Neither the bottom nor the top of the section is exposed.

These units are split into three fault or erosionally truncated sections. The northwestern part of the klippe contains a section that is the most complete, although neither its top nor bottom are exposed. It is cut by a normal fault that repeats the lower part of the section (Fig. 7-geomap). The footwall of this fault consists of the lower unit (Ttss) that is folded into a gentle syncline (Fig. 7-geomap). Both of these sections are inferred to be in normal fault contact with a section exposed to the SE (whose top and bottom are also not exposed) (Fig. 7-geomap).

The oldest sample analyzed, MR19DV-3 (n=22) is a light green-white, ~2m thick air fall tuff likely reworked in a lacustrine environment. It lies in the northeastern section of the klippe (Fig. 7-geomap). It exhibits a prominent age peak at 34 Ma, with one Mesozoic age grain and two Precambrian grains at 1922 Ma (Fig. S5). The 21 Cenozoic grains yield a YC1 σ MDA of 34.1 ± 0.5 Ma (MSWD = 0.38) (Fig. S6), which is considered the age of the tuff.

The next oldest sample, MR19DV-8 (n=152) is a dark red-brown coarse-grained sandstone from the structurally lowest exposure of the northwestern section of the klippe (Fig. 7-geomap). It has Cenozoic-Mesozoic age peaks at 26 Ma, 170 Ma and 223 Ma (Fig. S5). Six Paleozoic grains are clustered at 419 Ma. A group of 3 grains yield a YC1 σ MDA of 23.0 ± 0.2 Ma (MSWD = 0.57) and the youngest single grain age is 20.79 ± 0.1 Ma (Fig. S6).

Sample MR19DV-4 (n=119) is a ~3m thick light red-brown calcite-cemented coarse-grained sandstone interval overlying the tuff of MR19DV-3 described above (Fig. 7-geomap). It has a prominent youngest peak at 25 Ma, with few Mesozoic grains at 167 Ma and 221 Ma, and only one Precambrian grain (Fig. S5). Three grains yield a $YC1\sigma$ MDA of 22.2 ± 0.2 Ma (MSWD = 0.41), and the youngest single grain age is 21.6 ± 0.1 Ma (Fig. S6). The juxtaposition of this sample and the 34 Ma tuff of MR19DV-3 is interpreted to result from channelization that led to an unconformity between these two units (Fig. 7-geomap).

MR19DV-5 (n=23) was sampled from a ~4m thick light pink-brown ash flow tuff at the base of unit Ttss (Fig. S7). It has one peak at 24 Ma (Fig. S5). All 23 grains intersect within error for a maximum depositional age of 23.5 ± 1.1 Ma (MSWD = 0.22) (Fig. S6), and this is considered the age of this tuff. The youngest single grain age is 20.1 ± 3.6 Ma (Fig. S6).

MR19DV-6 (n=126) is a light red-brown coarse-grained sandstone. It lies in the southeastern of the three structural sections in the klippe, and is the structurally and stratigraphically highest sample analyzed from this area (Fig. 7-geomap). It has Cenozoic-Mesozoic peaks at 15 and 173 Ma (Fig. S6). Precambrian peaks lie at 1084 Ma and 1748 Ma. Two grains yield a $YC1\sigma$ MDA of 12.7 ± 0.8 Ma (MSWD = 1.3) (Fig. S6), and the youngest single grain age is 10.8 ± 0.1 Ma.

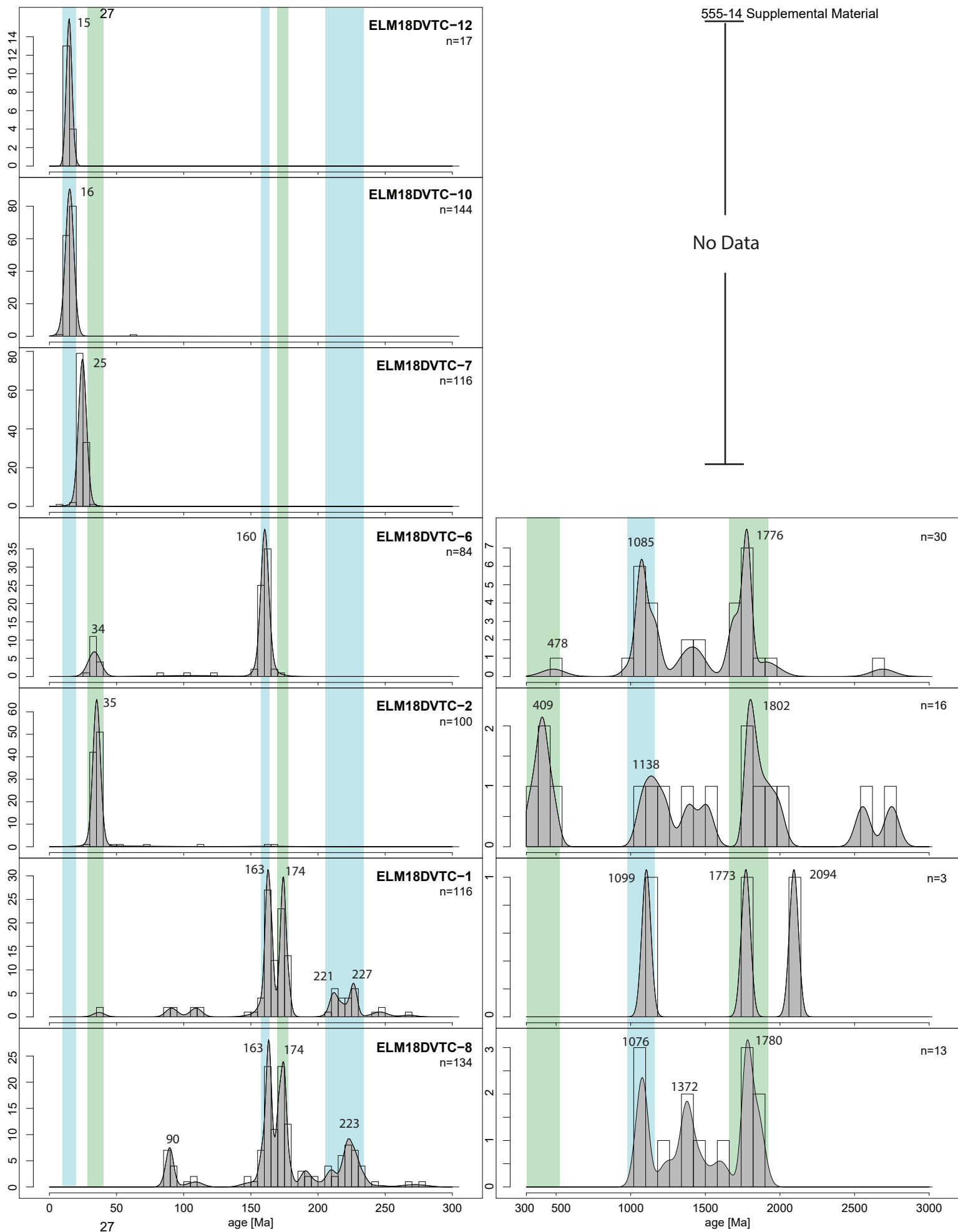


Figure S1

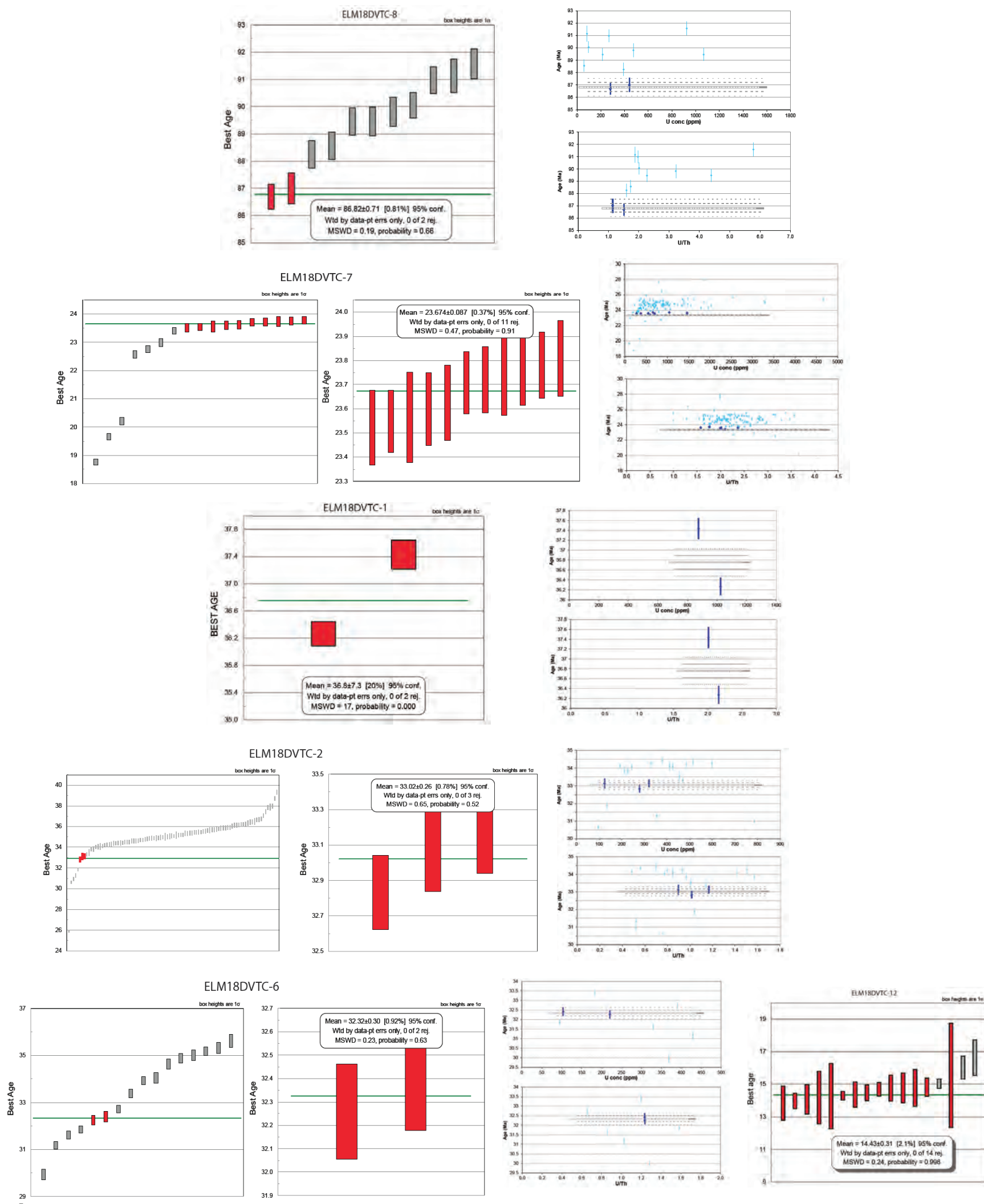
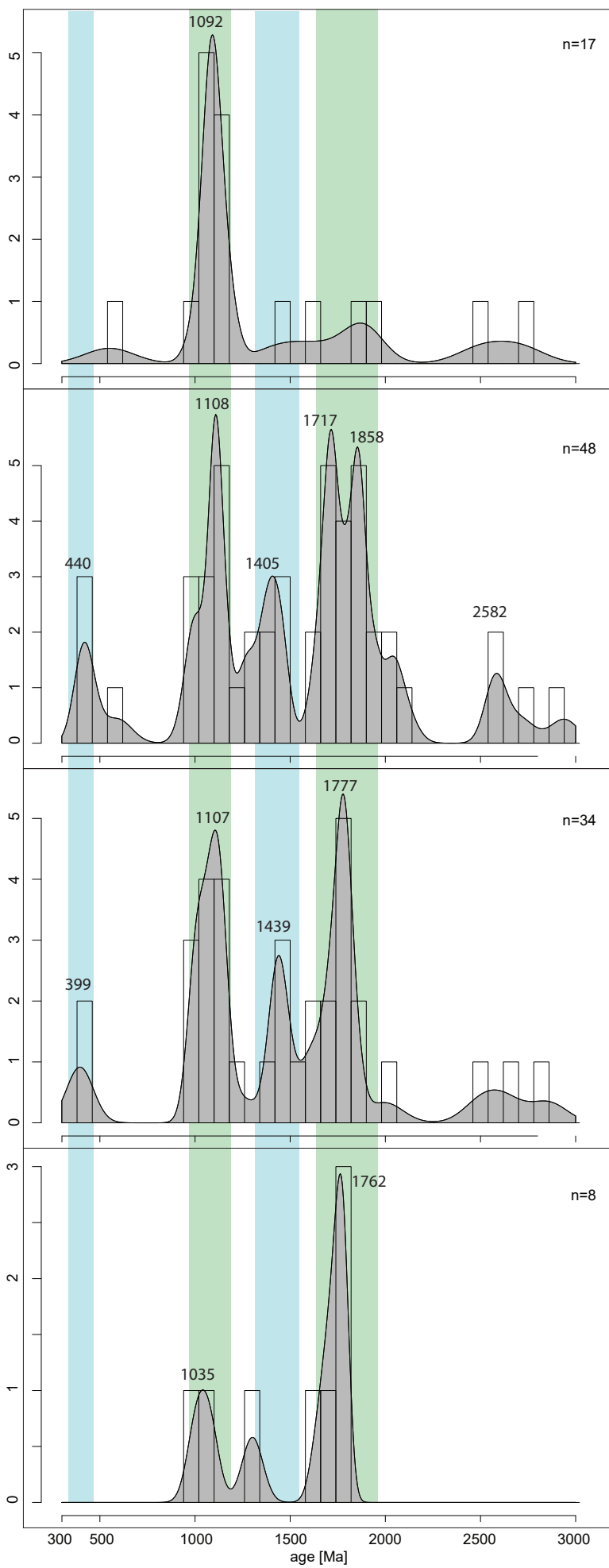
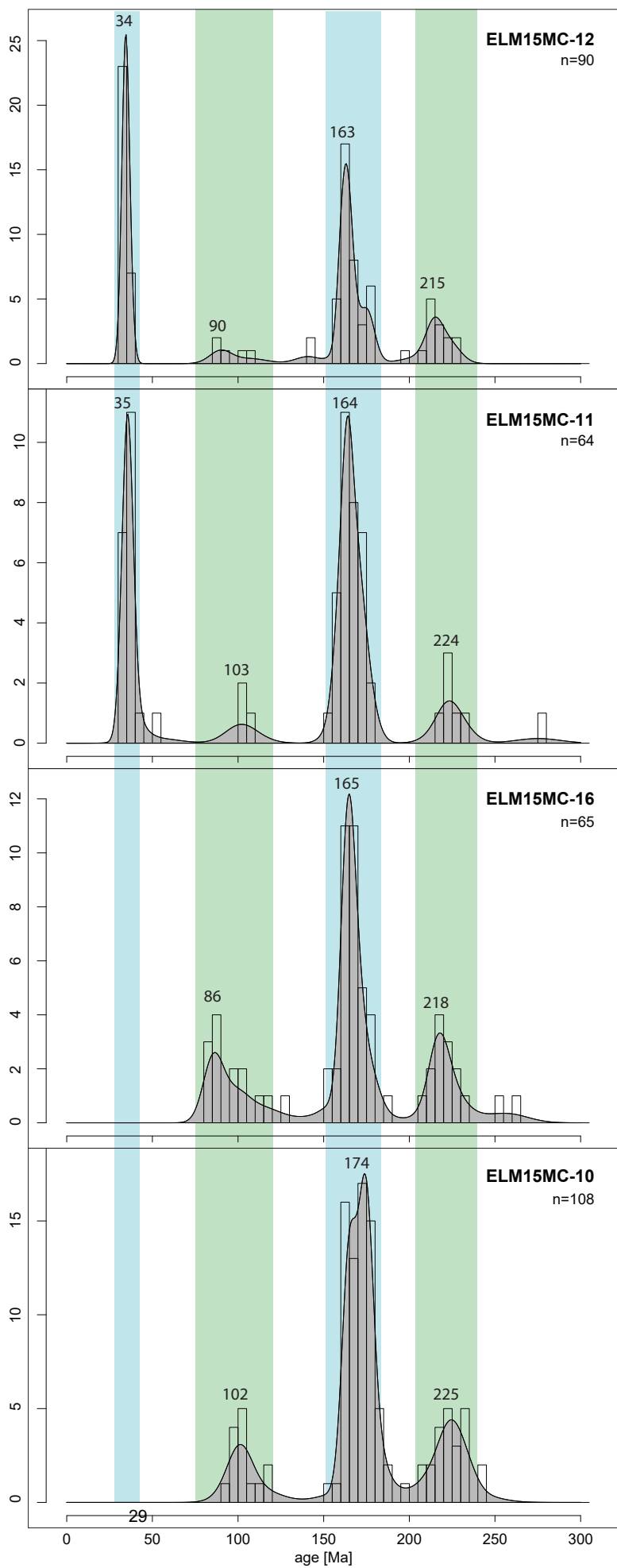
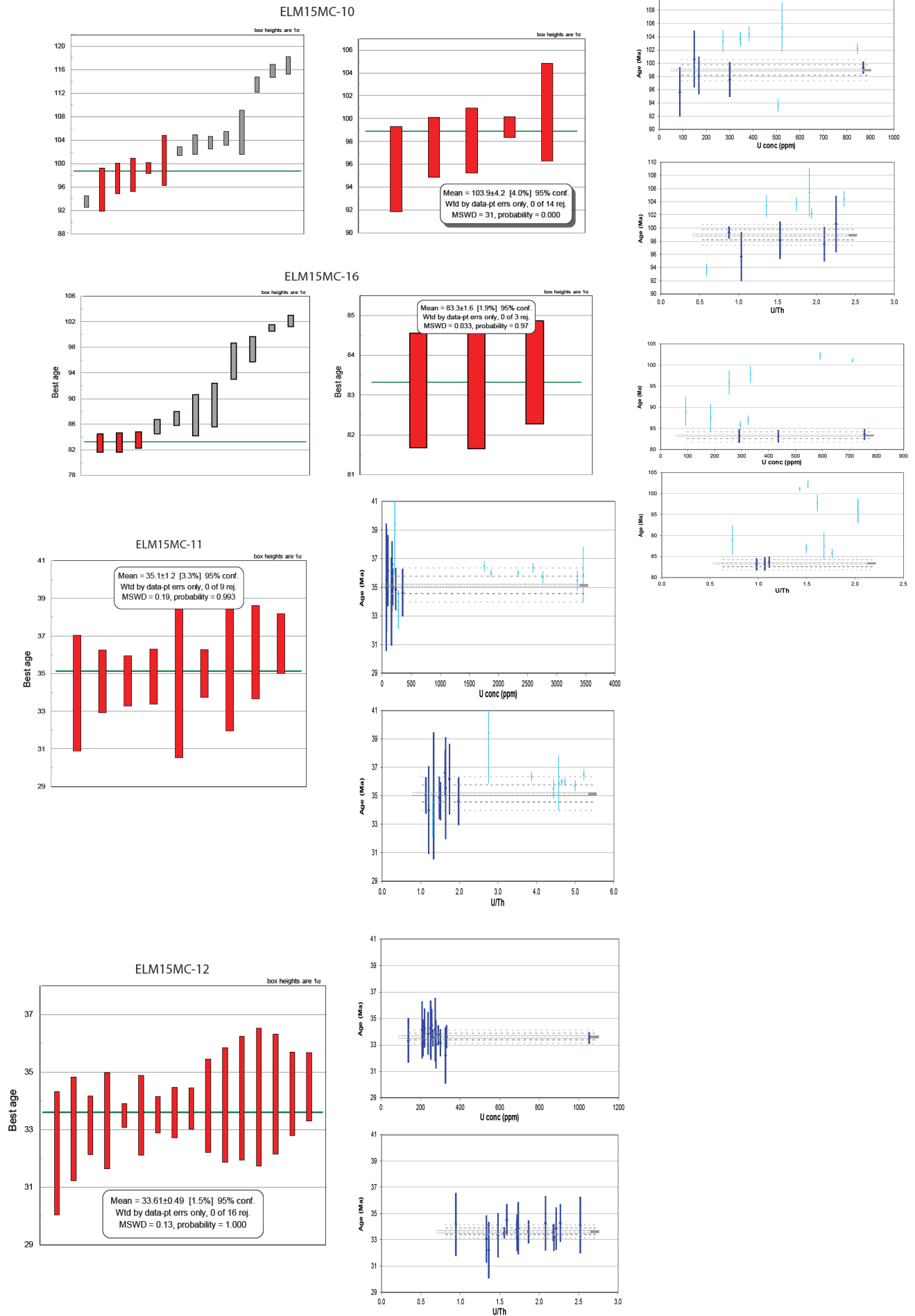


Figure S2





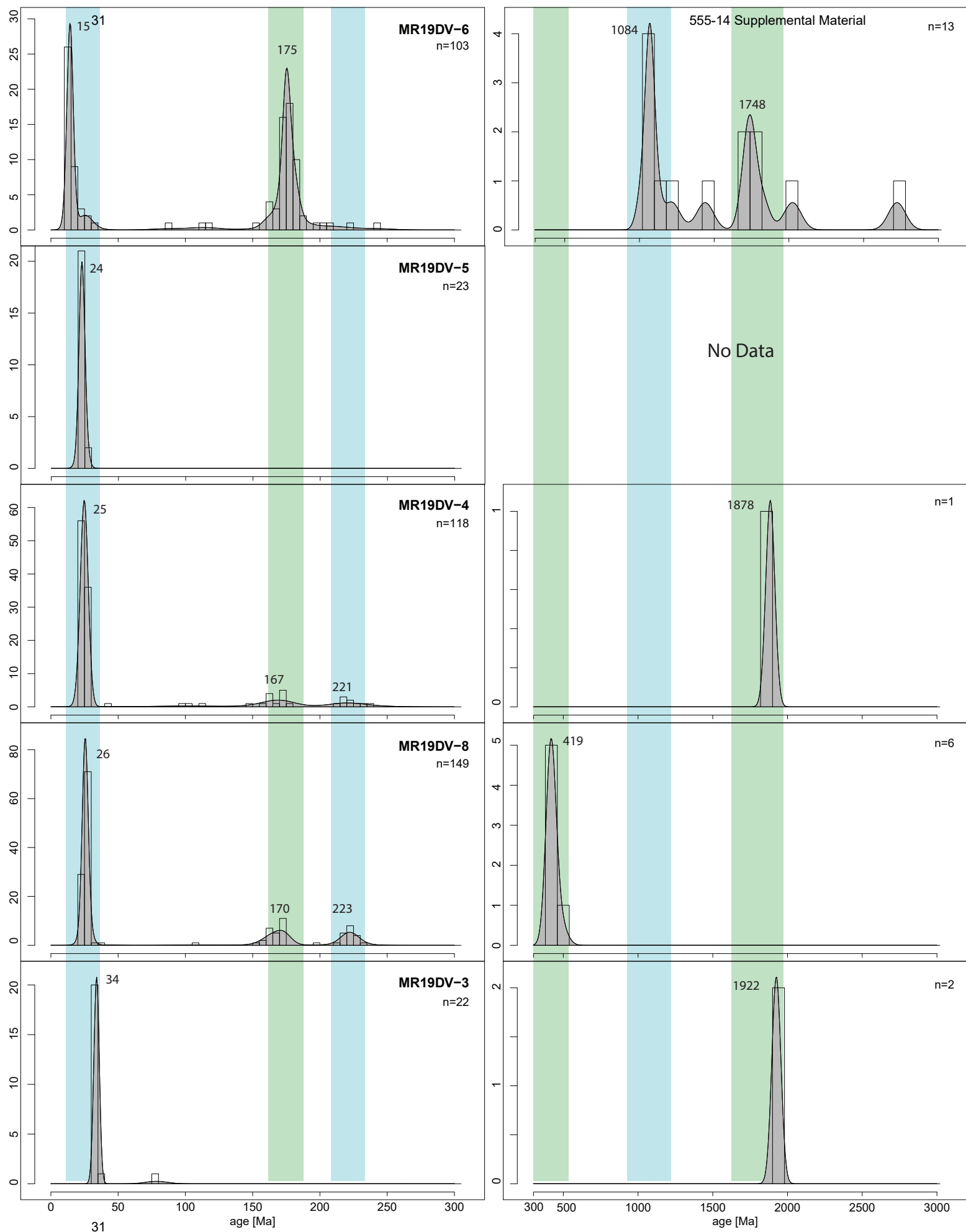


Figure S5

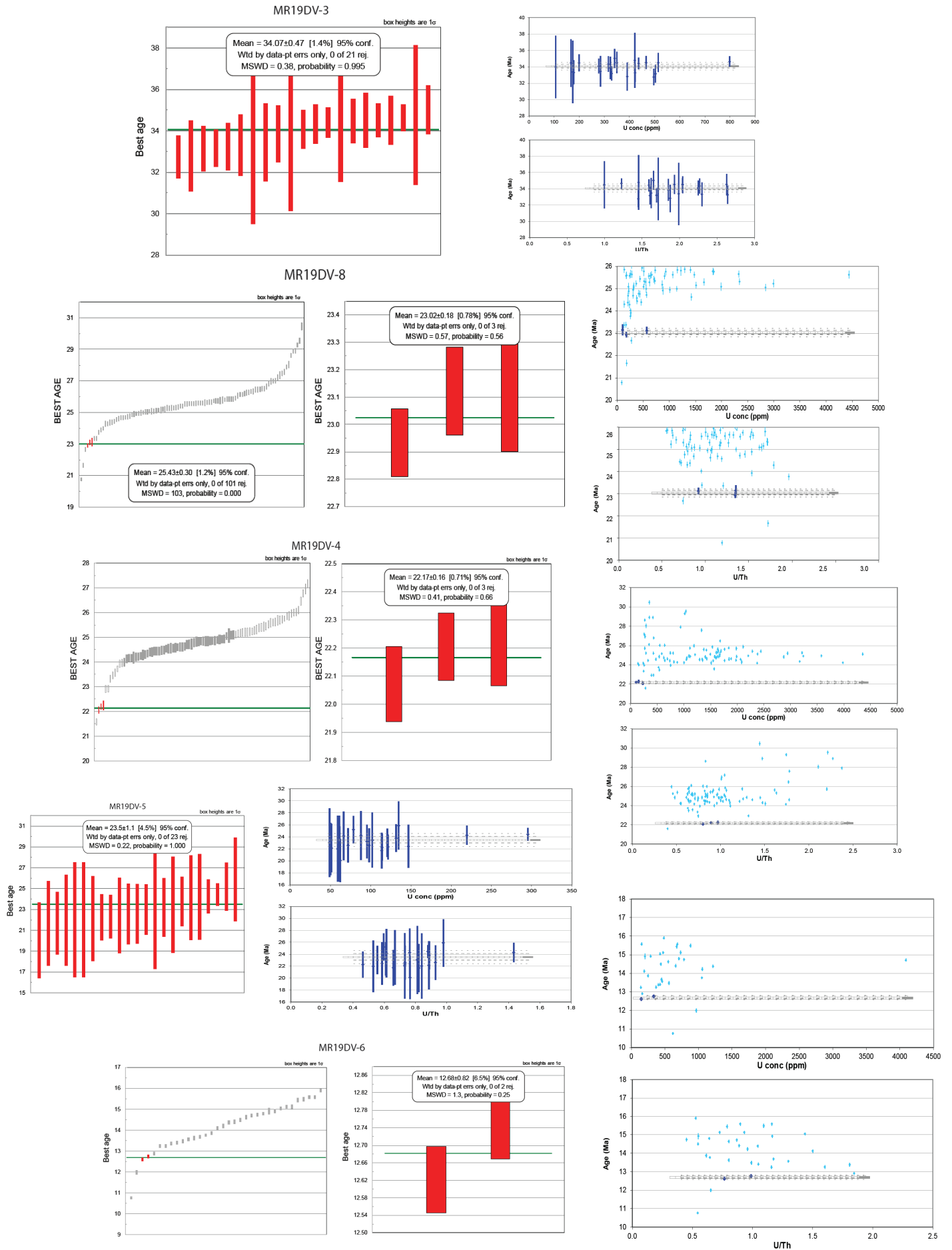


Figure S6