

Sample	Length	Diameter	Mean	1sd	1sem	total	
25	506	195	3.78E+06				
756	380	220	3.61E+06				
	465	194	3.44E+06				
	402	193	2.94E+06				
	544	204	4.45E+06	3.64E+06	5.48E+05	2.45E+05	1.82E+07
32	526	201	4.17E+06				
776	403	178	2.51E+06				
	544	226	5.46E+06				
	600	190	4.25E+06				
	526	212	4.64E+06				
	521	198	4.01E+06				
	508	128	1.63E+06				
	187	539	1.07E+07	4.67E+06	2.71E+06	9.57E+05	3.73E+07
42	387	218	3.61E+06				
813	529	209	4.54E+06				
	387	198	2.98E+06				
	426	237	4.70E+06				
	443	218	4.13E+06				
	404	175	2.43E+06				
	537	226	5.39E+06	3.97E+06	1.03E+06	3.89E+05	2.78E+07
46	485	248	5.86E+06				
813	404	195	3.02E+06				
	426	235	4.62E+06				
	526	197	4.01E+06	4.38E+06	1.19E+06	5.94E+05	1.75E+07

Sample	Length	Diameter	Mean	1sd	1sem	total
59	254.89	115.41	6.67E+05			
	244.88	121.92	7.15E+05			
	262.84	123.43	7.86E+05			
	275.95	112.78	6.89E+05			
	192.77	123.08	5.73E+05			
	239.1	107.46	5.42E+05			
	259.34	124.81	7.93E+05			
	176.75	128.76	5.75E+05			
	287.91	132.26	9.89E+05			
	278.01	130.19	9.25E+05			
	285.32	124.81	8.73E+05			
	278.83	118.71	7.72E+05			
	292.88	123.43	8.76E+05			
	242.42	132.37	8.34E+05			
	253.6	112.78	6.33E+05			
	277.86	129.31	9.12E+05			
	204.28	101.72	4.15E+05			
	254.05	118.71	7.03E+05			
	273.08	129.2	8.95E+05			
	252.87	119.55	7.10E+05			
	251.34	113.67	6.38E+05			
	251.51	128.42	8.14E+05			
	250.42	123.43	7.49E+05			
	272.61	134.94	9.75E+05			
	205.4	121.92	5.99E+05			
	262.19	128.31	8.48E+05			
	301.87	125.16	9.28E+05			
	206.3	120.14	5.85E+05			
	230.82	124.81	7.06E+05			
	279.09	123.43	8.35E+05			
	254.67	121.92	7.43E+05			
	249.22	122.15	7.30E+05			
	248.02	119.55	6.96E+05			
	298.87	128.76	9.73E+05			
	246.46	102.7	5.10E+05			
	224.42	111.64	5.49E+05			
	278.94	133.66	9.78E+05			
	294.63	129.31	9.67E+05			
	240.59	113.67	6.10E+05			
	265.44	125.16	8.16E+05			
	306.19	139.01	1.16E+06			
	266.94	142.36	1.06E+06			
	288.9	139.11	1.10E+06			
	272.61	124.81	8.34E+05			
	247.15	114.42	6.35E+05			
	231.38	133.66	8.12E+05			
	289.15	127.08	9.17E+05			
	209.6	106.93	4.71E+05			
	219.27	107.06	4.93E+05			
	267.53	128.42	8.66E+05			
	279.75	133.98	9.86E+05			
	233.1	110.22	5.56E+05			
	283.11	130.08	9.41E+05			
	242.42	128.76	7.89E+05			
	284.16	143.86	1.15E+06			
	217.1	111.25	5.28E+05			
	247.21	125.84	7.69E+05			
	204.91	97.56	3.83E+05			
	227.46	124.35	6.91E+05			
	257.52	128.54	8.35E+05			
	220.44	120.62	6.30E+05			
	248.99	125.84	7.74E+05			
	268.65	121.21	7.75E+05			
	261.15	127.08	8.28E+05			
	239.1	125.84	7.43E+05			
	252.87	121.92	7.38E+05			
	278.01	132.05	9.52E+05			
	259.12	137.04	9.55E+05			
	262.46	112.78	6.55E+05			
	273.97	134.09	9.67E+05			
	270.56	130.52	9.05E+05			
	255.84	125.84	7.95E+05			
	277.29	141.55	1.09E+06			
	302.63	132.05	1.04E+06			

244.3	120.14	6.92E+05				
276.21	121.92	8.06E+05				
252.36	113.67	6.40E+05				
248.76	130.08	8.26E+05				
235.3	117.74	6.40E+05				
185.59	125.84	5.77E+05				
283.41	145.44	1.18E+06				
287.17	138.7	1.08E+06				
224.55	117.62	6.10E+05				
280.16	120.97	8.05E+05				
282.3	132.05	9.67E+05				
260.66	126.74	8.22E+05				
271.61	129.42	8.93E+05				
258.62	124.81	7.91E+05				
269.24	135.36	9.69E+05				
277.29	135.25	9.96E+05				
256.24	129.2	8.40E+05				
303.43	140.34	1.17E+06				
224.61	136.31	8.19E+05				
270.56	136.93	9.96E+05	7.99E+05	1.78E+05	1.83E+04	7.51E+07

13-14 (1)	203.79	118.11	5.58E+05				
	219.79	111.64	5.38E+05				
	185.59	110.22	4.43E+05				
	139.42	124.01	4.21E+05				
	266.94	124.7	8.15E+05				
	224.8	112.4	5.58E+05				
	309.77	128.54	1.00E+06				
	150.08	102.14	3.07E+05				
	225.56	112.78	5.63E+05				
	192.84	113.41	4.87E+05				
	196.58	120.14	5.57E+05				
	249.97	121.92	7.30E+05				
	232.12	139.42	8.86E+05				
	228.58	142.66	9.13E+05				
	179.32	127.08	5.69E+05				
	264.52	127.08	8.39E+05				
	310.83	106.93	6.98E+05				
	265.44	134.09	9.37E+05				
	189.63	123.43	5.67E+05				
	174.56	113.67	4.43E+05				
	263.06	141.15	1.03E+06				
	165.82	134.62	5.90E+05				
	257.13	139.93	9.89E+05				
	265.87	121.92	7.76E+05				
	229.58	126.74	7.24E+05				
	201.25	120.14	5.70E+05				
	176.75	117.62	4.80E+05				
	244.88	130.52	8.19E+05				
	291.71	129.2	9.56E+05				
	232.12	151.41	1.04E+06				
	307.87	135.25	1.11E+06				
	226.83	131.07	7.65E+05				
	282.3	133.66	9.90E+05				
	224.61	139.93	8.64E+05				
	243.89	135.25	8.76E+05				
	241.54	144.75	9.94E+05				
	238.44	125.27	7.35E+05				
	283.11	145.44	1.18E+06				
	243.48	124.01	7.35E+05				
	283.56	120.97	8.15E+05				
	255.57	136.93	9.41E+05				
	291.32	125.27	8.98E+05				
	259.34	137.45	9.62E+05	7.60E+05	2.15E+05	3.28E+04	3.27E+07

13-14 (2)	210.22	128.76	6.84E+05				
	278.83	127.08	8.84E+05				
	247.67	135.36	8.91E+05				
	157.24	117.74	4.28E+05				
	253.54	132.8	8.78E+05				
	223.08	124.81	6.82E+05				
	234.39	129.42	7.71E+05				

302.53	129.42	9.95E+05				
289.94	123.43	8.67E+05				
255.57	131.07	8.62E+05				
181.46	96.38	3.31E+05				
165.74	107.06	3.73E+05				
210.62	124.35	6.39E+05				
186.51	141.25	7.31E+05				
246.69	134.94	8.82E+05				
275.22	145.93	1.15E+06				
273.97	140.34	1.06E+06				
258.62	136.62	9.48E+05				
269.87	129.31	8.86E+05				
209.12	139.11	7.95E+05				
253.6	139.42	9.68E+05				
277.24	140.34	1.07E+06				
285.17	123.08	8.48E+05				
233.84	125.84	7.27E+05				
211.5	116.77	5.66E+05				
258.68	121.92	7.55E+05				
270.51	132.05	9.26E+05				
176.35	128.54	5.72E+05				
264.74	136.31	9.66E+05				
251.79	139.11	9.57E+05				
219.79	137.04	8.10E+05				
264.09	150.65	1.18E+06				
259.34	136.31	9.46E+05				
245.29	124.35	7.45E+05				
255.06	132.05	8.73E+05				
262.14	136.31	9.56E+05				
295.26	114.42	7.59E+05				
260.88	129.42	8.58E+05				
306.43	145.44	1.27E+06				
199.61	137.45	7.40E+05	8.31E+05	2.01E+05	3.17E+04	3.32E+07

13-14 (3)

294.49	133.66	1.03E+06				
232.12	129.31	7.62E+05				
214.92	123.43	6.43E+05				
285.17	124.01	8.61E+05				
280.11	130.08	9.31E+05				
280.52	135.36	1.01E+06				
223.33	132.26	7.67E+05				
258.07	125.84	8.02E+05				
270.35	125.16	8.32E+05				
310.14	141.15	1.21E+06				
285.32	125.84	8.87E+05				
260.66	138.7	9.85E+05				
255.84	140.64	9.94E+05				
209.6	129.31	6.88E+05				
260.71	138.8	9.86E+05				
287.41	121.21	8.29E+05				
270.51	120.14	7.67E+05				
235.3	139.11	8.94E+05				
201.75	114.79	5.22E+05				
179.72	114.42	4.62E+05				
233.41	117.26	6.30E+05				
271.61	141.15	1.06E+06				
197.16	119.55	5.53E+05				
171.17	126.18	5.35E+05				
272.61	127.08	8.64E+05				
245.29	143.96	9.98E+05				
235.3	129.2	7.71E+05				
264.15	127.53	8.44E+05				
222.82	136.31	8.13E+05				
261.54	155.04	1.23E+06				
260.66	119.55	7.31E+05				
175.13	105.04	3.79E+05				
258.4	119.55	7.25E+05				
179.32	110.22	4.28E+05				
250.42	115.41	6.55E+05				
268.65	102.7	5.56E+05				
199.61	124.01	6.03E+05				
301.3	139.42	1.15E+06				
272.3	124.81	8.33E+05				
261.04	140.34	1.01E+06	8.06E+05	2.10E+05	3.32E+04	3.22E+07

8.18E+05 2.05E+05 2.29E+04 6.55E+07

15N-16	301.73	123.43	9.03E+05				
	239.4	120.14	6.78E+05				
	265.87	121.92	7.76E+05				
	285.17	134.09	1.01E+06				
	264.09	124.35	8.02E+05				
	216.51	118.35	5.95E+05				
	286.92	105.31	6.25E+05				
	291.71	117.26	7.88E+05				
	278.01	139.01	1.05E+06				
	248.71	131.5	8.44E+05				
	256.68	126.18	8.02E+05				
	278.06	94.59	4.88E+05				
	248.07	126.18	7.76E+05				
	289.15	137.04	1.07E+06				
	230.45	108.12	5.29E+05				
	260.17	135.36	9.36E+05				
	282.3	117.26	7.62E+05				
	271.61	121.21	7.84E+05				
	226.89	106.93	5.09E+05				
	269.08	128.76	8.76E+05				
	280.11	125.16	8.62E+05				
	271.04	123.43	8.11E+05				
	237.48	93.52	4.08E+05				
	232.12	97.56	4.34E+05				
	275.95	141.15	1.08E+06				
	272.61	124.81	8.34E+05				
	270.72	128.76	8.81E+05				
	279.86	134.09	9.88E+05				
	230.89	134.09	8.15E+05				
	277.24	129.42	9.12E+05				
	238.68	125.84	7.42E+05				
	294.05	120.14	8.33E+05				
	277.6	137.45	1.03E+06				
	247.67	124.7	7.56E+05				
	228.83	126.18	7.15E+05				
	246.86	123.43	7.38E+05				
	270.19	110.22	6.44E+05				
	230.14	129.31	7.56E+05				
	208.78	140.34	8.07E+05				
	277.6	142.66	1.11E+06				
	291.12	139.93	1.12E+06				
	248.07	132.8	8.59E+05				
	253.99	141.25	9.95E+05				
	247.21	125.16	7.60E+05				
	239.1	135.36	8.60E+05				
	278.83	127.53	8.90E+05				
	252.19	124.7	7.70E+05				
	272.61	114.42	7.01E+05				
	265.06	132.37	9.12E+05				
	290.73	130.52	9.72E+05				
	307.78	111.64	7.53E+05				
	293.08	132.37	1.01E+06				
	266.09	129.2	8.72E+05				
	244.3	139.01	9.27E+05				
	229.89	106.93	5.16E+05				
	257.52	134.09	9.09E+05				
	279.09	115.41	7.30E+05				
	278.22	139.11	1.06E+06				
	262.19	120.62	7.49E+05	8.16E+05	1.66E+05	2.15E+04	4.81E+07

15N-17	268.44	121.21	7.74E+05				
	244.36	135.36	8.79E+05				
	250.31	118.35	6.88E+05				
	276	128.54	8.95E+05				
	264.63	132.37	9.10E+05				
	288.9	155.41	1.37E+06				
	224.8	110.22	5.36E+05				
	289.35	121.92	8.45E+05				
	232.12	119.55	6.51E+05				
	227.33	117.74	6.19E+05				
	189.02	113.67	4.80E+05				

15N-32	270.19	124.35	8.20E+05				
	279.09	130.19	9.29E+05				
	245.29	123.43	7.34E+05				
	232.12	132.05	7.95E+05				
	294.2	140.34	1.14E+06				
	294.49	137.45	1.09E+06				
	171.17	106.93	3.84E+05				
	271.46	130.52	9.08E+05				
	255.57	125.84	7.95E+05				
	236.33	125.27	7.28E+05				
	243.01	125.27	7.49E+05				
	274.81	145.44	1.14E+06				
	281.28	114.29	7.21E+05				
	246.86	129.31	8.10E+05				
	268.49	110.22	6.40E+05				
	237.3	125.84	7.38E+05				
	279.29	124.01	8.43E+05				
	286.57	128.76	9.33E+05				
	261.32	129.2	8.57E+05				
	301.02	115.16	7.84E+05				
	226.95	106.12	5.02E+05				
	268.65	133.98	9.47E+05				
	272.66	123.08	8.11E+05				
	269.08	121.92	7.85E+05				
	276.21	135.25	9.92E+05				
	258.84	129.42	8.51E+05				
	285.17	128.76	9.28E+05				
	274.34	134.94	9.81E+05				
	246.17	133.66	8.64E+05				
	284.11	135.25	1.02E+06				
	265.44	102.84	5.51E+05				
	303.94	136.31	1.11E+06				
	248.07	106.93	5.57E+05				
	251.34	123.08	7.48E+05				
	249.4	126.74	7.87E+05				
	278.01	128.31	8.99E+05				
	265.44	118.35	7.30E+05				
	272.61	141.25	1.07E+06				
	244.36	137.45	9.06E+05	8.35E+05	1.71E+05	2.74E+04	3.26E+07

A1	236.21	113.41	5.97E+05				
	323	114.29	8.28E+05				
	255.84	107.59	5.81E+05				
	256.24	130.19	8.53E+05				
	268.65	121.92	7.84E+05				
	260.88	128.54	8.46E+05				
	258.68	131.07	8.73E+05				
	244.88	110.22	5.84E+05				
	288.9	151.97	1.31E+06				
	203.23	122.03	5.94E+05				
	272.66	129.31	8.95E+05				
	270.19	143.96	1.10E+06				
	237.48	122.03	6.94E+05				
	289.49	128.76	9.42E+05				
	315.93	129.2	1.04E+06				
	259.34	129.31	8.51E+05				
	223.4	99.88	4.38E+05				
	299.59	117.74	8.15E+05				
	196.58	117.26	5.31E+05				
	261.15	139.01	9.91E+05				
	258.62	134.62	9.20E+05				
	262.19	145.44	1.09E+06				
	272.3	124.81	8.33E+05				
	240.17	130.08	7.98E+05				
	271.04	124.81	8.29E+05				
	249.62	132.37	8.59E+05				
	270.19	139.01	1.03E+06				
	266.94	123.08	7.94E+05				
	273.97	134.62	9.75E+05				
	289.15	137.04	1.07E+06				
	238.92	106.93	5.36E+05				
	269.08	115.66	7.07E+05				

198.68	111.64	4.86E+05				
236.75	126.74	7.47E+05				
274.34	136.93	1.01E+06				
263.28	81.43	3.43E+05				
103.26	72.72	1.07E+05				
272.61	141.15	1.07E+06				
288.36	129.31	9.47E+05				
219.98	133.98	7.75E+05				
265.44	129.31	8.71E+05	8.03E+05	2.32E+05	3.62E+04	3.29E+07

A2

299.11	136.31	1.09E+06				
216.25	130.08	7.18E+05				
266.35	124.81	8.15E+05				
268.17	131.5	9.11E+05				
263.77	124.81	8.07E+05				
269.87	137.97	1.01E+06				
265.06	133.66	9.30E+05				
247.38	134.09	8.73E+05				
251.34	136.62	9.21E+05				
224.87	122.03	6.57E+05				
252.36	133.66	8.85E+05				
272.87	107.46	6.19E+05				
241.77	121.92	7.06E+05				
256.9	127.08	8.15E+05				
262.19	137.04	9.67E+05				
242.07	134.62	8.61E+05				
207.62	126.74	6.55E+05				
268.65	129.31	8.82E+05				
275.95	145.44	1.15E+06				
261.1	130.08	8.67E+05				
235.3	128.54	7.63E+05				
264.15	120.97	7.59E+05				
247.21	117.26	6.67E+05				
239.1	129.2	7.84E+05				
283.36	128.31	9.16E+05				
223.08	125.27	6.87E+05				
253.54	143.96	1.03E+06				
301.02	141.15	1.18E+06				
268.49	136.31	9.80E+05				
240.82	134.09	8.50E+05				
255.34	121.92	7.45E+05				
280.67	132.05	9.61E+05				
249.4	117.38	6.75E+05				
251.96	123.43	7.54E+05				
265.44	114.79	6.87E+05				
256.68	123.08	7.63E+05				
208.78	118.71	5.78E+05				
297.14	129.31	9.76E+05				
250.31	137.04	9.23E+05	8.41E+05	1.46E+05	2.33E+04	3.28E+07

Sample	Length	Diameter	Mean	1sd	1sem	total
42	821.67	336.48	1.83E+07			
	650.11	264.52	8.93E+06			
	824.75	302.44	1.48E+07			
	903.92	294.97	1.54E+07			
	914.5	291.76	1.53E+07			
	975.52	322.96	2.00E+07			
	1130.97	351.77	2.75E+07			
	797.95	271.46	1.15E+07			
	893.63	263.28	1.22E+07			
	836.81	280.52	1.29E+07			
	957.42	294.49	1.63E+07			
	877.88	291.12	1.46E+07			
	903.84	335.76	2.00E+07			
	858.57	355.44	2.13E+07			
	1187.68	371.72	3.22E+07			
	990.94	313.8	1.92E+07			
	960.44	297.96	1.67E+07			
	834.31	304.93	1.52E+07			
	1043.43	340.32	2.37E+07			
	857.72	297.14	1.49E+07			
1017.92	325.21	2.11E+07	1.77E+07	5.45E+06	1.19E+06	3.72E+08
43	887.24	355	2.20E+07			
	856.37	306.38	1.58E+07			
	638.37	235.06	6.93E+06			
	937.31	294.05	1.59E+07			
	757.55	339.86	1.72E+07			
	530.61	276.21	7.95E+06			
	490.99	316.34	9.65E+06			
	748.38	329.79	1.60E+07			

636.31	267.8	8.96E+06				
1131.73	357.89	2.85E+07				
883.46	305.49	1.62E+07				
901.45	348.54	2.15E+07				
847.5	332.38	1.84E+07				
691.01	309.03	1.30E+07				
867.66	329.4	1.85E+07				
811.68	353.22	1.99E+07				
753.91	363.55	1.96E+07				
985.78	318.01	1.96E+07				
975.62	299.11	1.71E+07				
706.71	276	1.06E+07	1.62E+07	5.39E+06	1.20E+06	3.23E+08

44	924.94	275.95	1.38E+07				
	1078.55	329.1	2.29E+07				
	833.57	342.54	1.92E+07				
	829.1	311.1	1.58E+07				
	746.39	306.43	1.38E+07				
	638.17	269.93	9.13E+06				
	578.79	282.95	9.10E+06				
	924.06	392.08	2.79E+07				
	923.21	319.58	1.85E+07				
	996.89	334.05	2.18E+07				
	784.37	318.73	1.56E+07				
	932.37	313.8	1.80E+07				
	708.97	315.62	1.39E+07				
	795.33	306.19	1.46E+07				
	714.82	346.98	1.69E+07				
	774.78	331	1.67E+07				
	877.65	246.46	1.05E+07				
	697.92	264.63	9.60E+06	1.60E+07	5.02E+06	1.18E+06	2.88E+08

71	823.57	321.89	1.68E+07				
	703.33	289.15	1.15E+07				
	1036.29	321.89	2.11E+07				
	930.61	270.35	1.34E+07				
	846.16	326.13	1.77E+07				
	727.77	295.99	1.25E+07				
	478.82	187.43	3.30E+06				
	978.91	344.21	2.28E+07				
	779.71	309.77	1.47E+07				
	885.9	292.3	1.49E+07				
	813.11	319	1.62E+07				
	799.69	335.59	1.77E+07				
	648.59	279.91	9.98E+06				
	802.21	311.74	1.53E+07				
	1036.29	336.65	2.31E+07				
	728.7	273.5	1.07E+07				
	814.07	326.44	1.70E+07				
	692.18	307.03	1.28E+07				
	839.91	291.71	1.40E+07				
	668.47	263.01	9.08E+06	1.47E+07	4.74E+06	1.06E+06	2.94E+08

Sample	2c	2a	Mean	1sd	1sem	total
40	778.77	603.07	1.11E+08			
	984.62	869.37	2.92E+08			
	922.07	711.37	1.83E+08			
	843.05	644.28	1.37E+08			
	733.45	545.91	8.59E+07			
	796.47	568.75	1.01E+08			
	993.5	770.86	2.32E+08			
	789.55	591.32	1.08E+08			
	912.1	734.15	1.93E+08			
	726.2	510.71	7.44E+07			
	952.7	733.56	2.01E+08			
	807.89	618.54	1.21E+08			
	845.56	599.39	1.19E+08			
	686.55	506.89	6.93E+07			
	1054.81	832.25	2.87E+08			
	783.29	580.49	1.04E+08			
	722.22	569.46	9.20E+07			
	870.39	675.63	1.56E+08			
	696.36	576.27	9.08E+07			
	788.6	591.54	1.08E+08			
807.59	588.32	1.10E+08	1.42E+08	6.56E+07	1.43E+07	2.98E+09
41	976.41	745.62	2.13E+08			
	689.41	499.74	6.76E+07			
	973.13	710.6	1.93E+08			
	657.63	501.33	6.49E+07			
	998.78	688.94	1.86E+08			
	791.43	568.33	1.00E+08			
	828.62	651.4	1.38E+08			
	931.96	789.18	2.28E+08			
	938.19	715	1.88E+08			
	900.51	632.64	1.42E+08			
	755.73	565.02	9.48E+07			
	915.65	655.34	1.54E+08			
	862.37	628.9	1.34E+08			
	686.21	537.68	7.79E+07			
	860.82	710.26	1.71E+08			
	764.68	650.41	1.27E+08			
	857.44	608.64	1.25E+08			
	928.99	733.15	1.96E+08			
	1073.56	796.32	2.67E+08			
	950.54	717.33	1.92E+08			
706.71	535.55	7.96E+07	1.50E+08	5.66E+07	1.24E+07	3.14E+09

55	828.7	579.63	1.09E+08				
	728.4	557.9	8.91E+07				
	622.85	455.57	5.08E+07				
	802.35	545.7	9.39E+07				
	621.65	428.04	4.47E+07				
	807.74	615.04	1.20E+08				
	807.94	577.8	1.06E+08				
	841.44	652.28	1.41E+08				
	468.93	373.67	2.57E+07				
	609.44	439.22	4.62E+07				
	739.93	563.02	9.21E+07				
	828.34	645.32	1.36E+08	8.78E+07	3.79E+07	1.09E+07	1.05E+09
	70	1117.51	750.78	2.47E+08			
909.32		712.27	1.81E+08				
890.07		614.11	1.32E+08				
780.57		511.13	8.01E+07				
935.02		748.21	2.06E+08				
779.36		622.96	1.19E+08				
881.5		754.14	1.97E+08				
838.97		641.94	1.36E+08	1.62E+08	5.47E+07	1.93E+07	1.30E+09
15N-23	929.99	711.85	1.85E+08				
	593.47	405.94	3.84E+07				
	862.47	654.12	1.45E+08				
	778.31	565.66	9.78E+07				
	484.84	325.21	2.01E+07				
	775.74	563.2	9.67E+07				
	930.28	716.49	1.88E+08				
	781.69	628.97	1.21E+08				
	831.03	712.69	1.66E+08				
	652.61	492.59	6.22E+07				
	620.48	483.54	5.70E+07				
	703.21	574.83	9.13E+07				
	758.07	539.98	8.68E+07				
	745.6	576.94	9.75E+07				
	723.99	517.52	7.62E+07				
	766.79	525.28	8.31E+07				
	770.86	535.33	8.68E+07				
	566.74	400.16	3.56E+07				
	922.94	726.65	1.91E+08				
	455.7	349.16	2.18E+07	9.74E+07	5.38E+07	1.20E+07	1.95E+09
15N-24	733.76	574.63	9.52E+07				

432.49	296.42	1.49E+07				
565.43	409.83	3.73E+07				
757.55	601.67	1.08E+08				
959.39	713.01	1.92E+08				
707.76	535.84	7.98E+07				
852.27	655.34	1.44E+08				
583.34	456.48	4.77E+07				
448.74	386.42	2.63E+07				
622.25	428.14	4.48E+07				
639.18	434.77	4.75E+07				
786.21	563.91	9.82E+07				
838.97	626.44	1.29E+08				
846.43	648.74	1.40E+08				
857.19	614.72	1.27E+08				
752.17	580.99	9.97E+07				
642.86	548.18	7.59E+07				
539.98	395.85	3.32E+07	8.56E+07	4.88E+07	1.15E+07	1.54E+09

15N-27 (deac

987.7	710.26	1.96E+08				
680.33	481.44	6.19E+07				
1077	735.43	2.29E+08				
972.17	718.41	1.97E+08				
1085.52	789.38	2.66E+08				
1044.2	792.42	2.58E+08				
904.86	688.71	1.69E+08				
1007.9	786.48	2.45E+08				
678.17	463.44	5.72E+07				
928.48	779.51	2.22E+08				
1027.63	787.08	2.50E+08				
1031.13	848.26	2.91E+08				
840.32	647.99	1.39E+08				
1071.48	792.45	2.64E+08				
1107.06	817.72	2.91E+08				
999.07	875.14	3.01E+08				
1088.4	884.42	3.34E+08				
701.35	523.64	7.55E+07				
521.89	383.3	3.01E+07				
698.31	462.42	5.87E+07	1.97E+08	9.48E+07	2.12E+07	3.93E+09

Sample	2c	2a	Mean	1sd	1sem	total
15N-25	1000	708.07	1.97E+08			
	673.98	459.91	5.60E+07			
	569.76	402.26	3.62E+07			
	760.71	582.98	1.02E+08			
	672.96	522.55	7.22E+07			
	729.03	422.67	5.12E+07			
	819.13	596.04	1.14E+08			
	968.64	714.92	1.94E+08			
	768.13	512.47	7.92E+07			
	835.69	601.67	1.19E+08			
	563.91	407.48	3.68E+07			
	883.19	700.39	1.70E+08			
	951.79	705.9	1.86E+08			
	718.51	514.14	7.46E+07			
	987.56	727.19	2.05E+08			
	652.61	411.81	4.35E+07			
	654.03	437.78	4.92E+07			
	639.11	483.72	5.87E+07			
	853.63	610.94	1.25E+08			
	874.01	594.51	1.21E+08	1.05E+08	5.83E+07	1.30E+07
15N-26	911.83	685.52	1.68E+08			
	754.65	557.28	9.21E+07			
	882.67	688.85	1.65E+08			
	707.44	480.13	6.41E+07			
	956.51	712.69	1.91E+08			
	925.17	786.57	2.25E+08			
	691.03	486.52	6.43E+07			
	995.09	710.89	1.98E+08			
	1002.17	737.97	2.14E+08			
	944.42	717.07	1.91E+08			
	646.65	454.44	5.25E+07			
	978.9	787.15	2.38E+08			
	867.51	627.6	1.34E+08			
	637.99	489.68	6.01E+07			
	742.22	534.24	8.32E+07			
	778.81	502.81	7.73E+07			
	670.43	523.21	7.21E+07			
	961.31	738.28	2.06E+08			
	1011.48	852.64	2.89E+08			
	668.3	439.9	5.08E+07			
803.4	625.89	1.24E+08				
984.91	727.11	2.05E+08				
586.28	408.92	3.85E+07	1.39E+08	7.42E+07	1.55E+07	3.20E+09

Sample	Length	Diameter	Mean	1sd	1sem	total
34	390.61	129.31	1.28E+06			
441	297.29	139.42	1.13E+06			
	420.06	124.81	1.28E+06			
	350.83	131.07	1.18E+06			
	319.76	125.16	9.84E+05			
	184.35	99.88	3.61E+05			
	111.25	68.47	1.02E+05			
	338.35	203.58	2.75E+06			
	347.51	175.13	2.09E+06			
	310.27	139.01	1.18E+06			
	216.64	123.43	6.48E+05			
	362.37	147.1	1.54E+06			
	367.66	151.97	1.67E+06			
	337.2	138.7	1.27E+06			
	353.51	139.42	1.35E+06			
	315.75	143.96	1.28E+06			
	391.16	146.81	1.66E+06			
	371.37	128.76	1.21E+06			
	306.24	123.43	9.16E+05			
	319.93	141.55	1.26E+06			
	433.02	139.01	1.64E+06			
	336.82	128.31	1.09E+06			
	364.18	123.43	1.09E+06			
	219.2	125.84	6.82E+05			
	428.54	158.96	2.13E+06			
	285.17	133.98	1.01E+06			
	342.33	131.07	1.15E+06			
	349.61	134.09	1.23E+06			
	396.53	155.41	1.88E+06			
	533.83	134.62	1.90E+06			
	400.73	141.55	1.58E+06			
	396.93	155.41	1.88E+06			
	368.71	153.93	1.72E+06			
	351.81	155.69	1.67E+06			
	360.75	160.39	1.82E+06			
	380.49	155.69	1.81E+06			
	302.86	112.4	7.51E+05			
	370.91	149.12	1.62E+06			
	369.33	160.84	1.88E+06			
	429.64	162.34	2.22E+06			
	342.17	123.43	1.02E+06			
	345.04	114.29	8.85E+05			
	325.6	107.59	7.40E+05			
	408.57	128.54	1.33E+06			
	298.25	152.07	1.35E+06			
	350.14	161.19	1.79E+06			
	296.42	102.14	6.07E+05			
	452.93	157.33	2.20E+06			
	309.03	143.46	1.25E+06			
	428.14	150.56	1.91E+06			
	399.3	131.5	1.36E+06			
	355.36	128.76	1.16E+06			
	362.06	149.12	1.58E+06			
	248.71	157.88	1.22E+06			
	434.41	159.5	2.17E+06			
	331.52	144.35	1.36E+06			
	355.93	133.98	1.25E+06			
	342.88	136.31	1.25E+06			
	401.37	133.66	1.41E+06			
	403.25	145.24	1.67E+06			
	308.61	125.84	9.60E+05			
	437.03	156.51	2.10E+06			
	327.31	152.91	1.50E+06			
	325.25	133.98	1.15E+06			
	396.97	117.38	1.07E+06			
	339.65	153.19	1.57E+06			
	394.69	133.98	1.39E+06			
	363.24	140.34	1.40E+06			
	375.66	153.1	1.73E+06			
	406.64	157.97	1.99E+06			
	370.45	152.16	1.68E+06			
	450.65	144.35	1.84E+06			
	326.13	145.93	1.36E+06			
	362.17	166.08	1.96E+06			
	342.21	139.42	1.31E+06			

385.68	143.86	1.57E+06				
389.41	136.1	1.42E+06				
262.46	117.62	7.13E+05				
264.63	119.55	7.43E+05				
264.09	149.79	1.16E+06				
306.24	109.7	7.24E+05				
343.21	118.35	9.44E+05				
356.33	145.93	1.49E+06				
415.23	139.42	1.58E+06				
363.08	159.5	1.81E+06				
349.48	119.55	9.81E+05				
284.72	134.94	1.02E+06				
363.32	145.44	1.51E+06				
235.48	133.77	8.27E+05				
395.96	161.63	2.03E+06				
390.43	176.51	2.39E+06				
262.19	117.26	7.08E+05				
386.75	124.81	1.18E+06				
435.69	153.1	2.01E+06				
356.13	130.52	1.19E+06				
329.96	133.66	1.16E+06				
316.66	145.93	1.32E+06				
258.84	124.81	7.92E+05				
383.34	139.42	1.46E+06				
338.35	150.56	1.51E+06				
328.92	141.55	1.29E+06				
349.97	117.26	9.45E+05				
333.8	139.42	1.27E+06				
405.94	106.93	9.11E+05				
441.65	167.11	2.42E+06				
418.25	151.31	1.88E+06				
279.75	132.37	9.62E+05				
335.59	134.94	1.20E+06				
259.56	124.7	7.93E+05				
339.53	150.93	1.52E+06				
425.1	150.08	1.88E+06				
354.03	115.66	9.30E+05				
433.29	163.57	2.28E+06				
411.11	143.96	1.67E+06				
396.21	140.64	1.54E+06				
393.2	145.93	1.64E+06				
348.13	140.34	1.35E+06				
401.94	136.62	1.47E+06				
398.12	166	2.15E+06				
338.56	160.21	1.71E+06				
359.64	140.64	1.40E+06				
360.47	141.15	1.41E+06				
386.01	146.81	1.63E+06				
394.69	139.42	1.51E+06				
387.93	140.64	1.51E+06				
226.89	124.7	6.93E+05				
392.15	148.26	1.69E+06				
289.49	128.76	9.42E+05				
299.11	117.26	8.08E+05				
402.51	148.64	1.75E+06	1.40E+06	4.58E+05	4.02E+04	1.82E+08

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393.17	136.1	1.43E+06
381.84	136.31	1.39E+06
348.54	138.7	1.32E+06
347.51	164.7	1.85E+06
437.52	166.51	2.38E+06
347.51	142.36	1.38E+06
391.16	106.53	8.72E+05
374.59	133.77	1.32E+06
378.73	162.34	1.96E+06
465.84	186.51	3.18E+06
411.67	160.39	2.08E+06
434.67	155.04	2.05E+06
349.61	146.03	1.46E+06
303.24	130.08	1.01E+06
340.24	162.6	1.77E+06
271.61	126.18	8.49E+05
417.02	148.93	1.82E+06
383.9	149.12	1.68E+06
378.73	161.63	1.94E+06

	378.73	139.01	1.44E+06				
	413.02	137.04	1.52E+06				
	429.34	145.24	1.78E+06				
	330.7	134.94	1.18E+06				
	273.08	128.54	8.86E+05				
	401.12	128.42	1.30E+06				
	284.62	102.14	5.83E+05				
	393.24	139.93	1.51E+06				
	333.02	134.09	1.18E+06				
	341.58	136.93	1.26E+06				
	426.1	167.45	2.35E+06				
	349.11	160.48	1.77E+06				
	296.95	146.03	1.24E+06				
	310.37	145.93	1.30E+06				
	373.48	150.56	1.66E+06				
	348.13	151.41	1.57E+06				
	408.57	140.34	1.58E+06				
	386.42	127.08	1.23E+06				
	291.76	132.26	1.00E+06				
	423.68	147.87	1.82E+06	1.54E+06	4.88E+05	7.81E+04	5.99E+07
51	382.11	123.43	1.14E+06				
	392.08	145.24	1.62E+06				
	296.42	145.24	1.23E+06				
	365.75	136.62	1.34E+06				
	292.69	147.87	1.26E+06				
	378.05	141.15	1.48E+06				
	369.87	128.31	1.20E+06				
	336.86	112.78	8.41E+05				
	344.83	150.56	1.53E+06				
	411.71	139.42	1.57E+06				
	381.99	128.54	1.24E+06				
	316.16	106.53	7.04E+05				
	387.97	140.64	1.51E+06				
	402.12	137.97	1.50E+06				
	357.41	154.21	1.67E+06				
	417.02	155.04	1.97E+06				
	404.53	155.41	1.92E+06				
	304.79	132.8	1.06E+06				
	344.04	129.42	1.13E+06				
	464.27	145.44	1.93E+06				
	364.38	171.17	2.10E+06				
	458.7	156.15	2.20E+06				
	302.44	140.64	1.17E+06				
	337.88	155.04	1.59E+06				
	314.48	139.42	1.20E+06				
	387.79	143.96	1.58E+06				
	359.28	148.55	1.56E+06				
	413.75	172.17	2.41E+06				
	374.28	140.34	1.45E+06				
	392.08	151.22	1.76E+06				
	341.92	162.6	1.77E+06				
	422.5	162.95	2.20E+06				
	408.57	162.6	2.12E+06				
	374.28	128.31	1.21E+06				
	340.32	136.1	1.24E+06				
	325.21	143.46	1.31E+06				
	399.87	126.74	1.26E+06				
	398.55	145.24	1.65E+06				
	347.51	140.34	1.34E+06				
	455.23	171.17	2.62E+06	1.54E+06	4.19E+05	6.63E+04	6.16E+07
52	455.7	177	2.80E+06				
	349.16	129.31	1.15E+06				
	306.43	145.24	1.27E+06				
	384.98	169.07	2.16E+06				
	389.85	162.87	2.03E+06				
	240.59	106.93	5.40E+05				
	375.2	150.65	1.67E+06				
	329.66	150.08	1.46E+06				
	435.69	180.36	2.78E+06				
	407.2	144.45	1.67E+06				
	307.17	93.52	5.27E+05				
	319.8	99.45	6.21E+05				

	425.63	151.31	1.91E+06				
	405.94	163.65	2.13E+06				
	375.2	166.08	2.03E+06				
	349.85	151.97	1.59E+06				
	388.27	161.63	1.99E+06				
	396.43	154.31	1.85E+06				
	358.84	191.28	2.58E+06				
	333.02	151.22	1.50E+06				
	370.79	151.22	1.66E+06				
	433.09	155.14	2.05E+06				
	415.23	185.36	2.80E+06				
	378.54	118.71	1.05E+06				
	315.62	150.08	1.40E+06				
	326.83	167.88	1.81E+06				
	368.24	153.19	1.70E+06				
	398.55	145.93	1.67E+06				
	378.35	171.17	2.18E+06				
	305.91	133.77	1.07E+06				
	381.43	150.56	1.70E+06				
	396.93	160.75	2.01E+06				
	279.86	139.93	1.08E+06				
	438.04	160.84	2.23E+06				
	399.23	176.75	2.45E+06				
	351.44	140.64	1.36E+06				
	359.2	159.5	1.79E+06				
	396.93	165.82	2.14E+06	1.75E+06	5.80E+05	9.42E+04	6.64E+07
54	398.55	150.56	1.77E+06				
	377.33	113.29	9.51E+05				
	398.4	148.64	1.73E+06				
	348.13	120.62	9.95E+05				
	431.24	139.93	1.66E+06				
	408.57	150.08	1.81E+06				
	437.78	155.87	2.09E+06				
	396.97	145.44	1.65E+06				
	412.36	158.96	2.05E+06				
	388.27	133.66	1.36E+06				
	375.2	132.8	1.30E+06				
	346.98	145.44	1.44E+06				
	318.73	148.93	1.39E+06				
	374.25	144.45	1.53E+06				
	368.71	150.93	1.65E+06				
	394.69	145.93	1.65E+06				
	392.18	146.03	1.64E+06				
	313.8	132.26	1.08E+06				
	391.6	150.56	1.74E+06				
	456.79	125.84	1.42E+06				
	416.67	155.87	1.99E+06				
	413.92	154.21	1.93E+06				
	410.87	167.88	2.27E+06				
	431.04	150.93	1.93E+06				
	464.24	183.73	3.08E+06				
	312.89	111.64	7.66E+05				
	351.72	141.15	1.38E+06				
	392.48	164	2.07E+06				
	351.6	145.93	1.47E+06				
	415.85	143.86	1.69E+06				
	368.28	130.08	1.22E+06				
	423.48	136.31	1.54E+06				
	428.01	160.48	2.16E+06				
	421.55	164.7	2.25E+06				
	356.65	159.5	1.78E+06	1.67E+06	4.41E+05	7.46E+04	5.84E+07
55	367.19	136.31	1.34E+06				
	399.23	163.57	2.10E+06				
	439.48	137.97	1.64E+06				
	402.26	159.5	2.01E+06				
	325.47	143.86	1.32E+06				
	465.63	147.1	1.98E+06				
	392.95	153.1	1.81E+06				
	337.2	146.03	1.41E+06				
	279.29	139.42	1.07E+06				
	362.92	152.91	1.67E+06				
	394.69	160.21	1.99E+06				
	294.24	134.09	1.04E+06				

	397.4	167.11	2.18E+06				
	369.87	149.79	1.63E+06				
	301.11	117.62	8.18E+05				
	387.93	131.07	1.31E+06				
	316.16	118.11	8.66E+05				
	352.09	143.86	1.43E+06				
	409.16	155.41	1.94E+06				
	313.98	146.81	1.33E+06				
	377.48	139.93	1.45E+06				
	455.57	169.07	2.56E+06				
	289.15	128.76	9.41E+05				
	312.89	164	1.65E+06				
	319.08	112.4	7.92E+05				
	412.54	145.24	1.71E+06				
	390.72	157.24	1.90E+06				
	338.13	136.31	1.23E+06				
	283.56	128.76	9.23E+05				
	302.81	124.81	9.26E+05				
	279.86	132.37	9.63E+05				
	273.97	113.41	6.92E+05				
	342.54	137.97	1.28E+06				
	380.23	170.58	2.17E+06				
	426.14	143.96	1.73E+06				
	321.89	141.25	1.26E+06				
	403.25	155.87	1.92E+06				
	424.09	182.48	2.77E+06				
	338.56	147.1	1.44E+06				
	357.37	136.62	1.31E+06				
	337.16	120.62	9.63E+05				
	338.18	147.49	1.44E+06				
	452.46	145.44	1.88E+06				
	409.27	157.24	1.99E+06				
	384.98	152.07	1.75E+06				
	331.86	139.11	1.26E+06	1.52E+06	4.80E+05	7.08E+04	6.98E+07
57	458.7	181.46	2.97E+06				
	373.48	151.22	1.68E+06				
	438.7	155.04	2.07E+06				
	459.32	134.94	1.64E+06				
	479.78	176.35	2.93E+06				
	489.68	158.33	2.41E+06				
	402.26	150.93	1.80E+06				
	422.67	147.87	1.81E+06				
	475.95	169.91	2.70E+06				
	466.39	157.88	2.28E+06				
	487.96	151.31	2.19E+06				
	475.59	155.87	2.27E+06				
	549.74	182.09	3.58E+06				
	523.07	170.5	2.99E+06				
	401.12	144.45	1.64E+06				
	461.22	189.02	3.24E+06				
	408.88	153.1	1.88E+06				
	386.01	164.7	2.06E+06				
	433.19	165.74	2.34E+06				
	456.73	167.03	2.50E+06				
	433.88	160.75	2.20E+06				
	456.45	160.48	2.31E+06				
	490.29	191.65	3.54E+06				
	493.29	163.57	2.59E+06				
	448.36	163.22	2.35E+06				
	451.67	158.33	2.22E+06				
	517.25	175.13	3.11E+06				
	377.33	140.64	1.47E+06				
	479.54	167.79	2.65E+06				
	468.32	169.07	2.63E+06				
	431.2	170.83	2.47E+06				
	468.78	186.2	3.19E+06				
	501.19	163.57	2.63E+06				
	411.25	179.72	2.61E+06				
	529.32	182.87	3.48E+06				
	543.23	191.65	3.92E+06				
	396.93	169.83	2.25E+06				
	358.84	162.87	1.87E+06				
	460.28	170.58	2.63E+06				
	459.57	145.93	1.92E+06	2.48E+06	5.89E+05	9.32E+04	9.90E+07

60	409.3	139.01	1.55E+06				
	359.16	117.26	9.70E+05				
	307.03	148.64	1.33E+06				
	435.95	117.26	1.18E+06				
	401.3	139.93	1.54E+06				
	380.49	153.93	1.77E+06				
	340.58	147.49	1.45E+06				
	319.76	134.09	1.13E+06				
	408.92	150.65	1.82E+06				
	329.27	138.7	1.24E+06				
	467.62	175.86	2.84E+06				
	418.83	133.66	1.47E+06				
	252.36	114.79	6.53E+05				
	498.82	133.66	1.75E+06				
	292.3	139.93	1.12E+06				
	378.95	138.8	1.43E+06				
	463.04	155.87	2.21E+06				
	364.38	139.01	1.38E+06				
	428.91	129.31	1.41E+06				
	313.8	143.96	1.28E+06				
	338.13	150.56	1.50E+06				
	285.32	142.06	1.13E+06				
	421.96	158.96	2.09E+06				
	429.21	171.17	2.47E+06				
	354.03	152.16	1.61E+06				
	423.21	160.21	2.13E+06				
	453.43	136.93	1.67E+06				
	428.31	141.15	1.68E+06				
	310.09	151.22	1.39E+06				
	259.84	147.49	1.11E+06				
	400.8	150.56	1.78E+06				
	409.16	135.36	1.47E+06				
	289.15	147.1	1.23E+06				
	468.65	132.05	1.60E+06				
	406.64	143.96	1.65E+06				
	308.47	141.15	1.21E+06				
	438.6	170.16	2.49E+06				
	351.48	120.14	9.96E+05	1.55E+06	4.53E+05	7.35E+04	5.88E+07
24	433.72	132.05	1.48E+06				
	369.05	128.31	1.19E+06				
	310.27	123.43	9.28E+05				
	401.12	149.79	1.77E+06				
	359.44	115.16	9.36E+05				
	294.05	122.97	8.73E+05				
	348.29	132.05	1.19E+06				
	415.13	130.08	1.38E+06				
	411.98	117.62	1.12E+06				
	429.44	115.16	1.12E+06				
	446.57	136.62	1.64E+06				
	215.05	93.52	3.69E+05				
	378.69	149.79	1.67E+06				
	272.61	135.36	9.81E+05				
	343.67	124.01	1.04E+06				
	425.1	155.87	2.03E+06				
	324.37	114.29	8.32E+05				
	452.8	167.79	2.50E+06				
	393.82	147.49	1.68E+06				
	385.68	167.03	2.11E+06				
	346.53	151.41	1.56E+06				
	394.33	166.51	2.15E+06				
	425.6	150.65	1.90E+06				
	303.94	136.31	1.11E+06				
	342.04	142.06	1.36E+06				
	431.87	122.15	1.27E+06				
	344.33	150.93	1.54E+06				
	324.02	110.22	7.73E+05				
	427.74	144.45	1.75E+06				
	314.48	136.93	1.16E+06				
	320.29	139.42	1.22E+06				
	332.55	133.77	1.17E+06				
	387.6	160.84	1.97E+06				
	341.58	145.44	1.42E+06				
	463.69	147.1	1.97E+06				
	400.69	101.44	8.10E+05				
	386.27	145.24	1.60E+06				

317.92	106.53	7.08E+05				
269.87	88.98	4.20E+05				
319	132.37	1.10E+06				
319.08	139.93	1.23E+06				
375.2	129.42	1.23E+06				
363.63	125.27	1.12E+06				
352.9	144.75	1.45E+06				
360.43	125.16	1.11E+06				
334.61	136.31	1.22E+06				
353.87	141.25	1.39E+06				
397.83	151.41	1.79E+06				
318.32	136.31	1.16E+06				
251.05	71.73	2.54E+05				
231.63	96.38	4.22E+05				
412.54	134.09	1.46E+06				
432.03	131.07	1.46E+06				
312.34	117.62	8.48E+05				
355.68	132.8	1.23E+06				
367.46	120.62	1.05E+06				
345.58	164.7	1.84E+06				
421.01	137.97	1.57E+06	1.30E+06	4.62E+05	6.07E+04	7.56E+07

11-12 (1)

402.12	146.81	1.70E+06				
438.53	139.11	1.67E+06				
372.02	157.33	1.81E+06				
429.21	138.8	1.62E+06				
334.22	157.33	1.62E+06				
415.85	152.07	1.89E+06				
405.27	126.74	1.28E+06				
312.89	140.34	1.21E+06				
443.07	162.34	2.29E+06				
370.45	147.1	1.57E+06				
398.12	158.33	1.96E+06				
417.56	148.64	1.81E+06				
285.57	132.8	9.89E+05				
345.7	121.92	1.01E+06				
368.28	145.44	1.53E+06				
416.47	134.09	1.47E+06				
480.34	152.16	2.18E+06				
446.54	132.05	1.53E+06				
408.57	128.76	1.33E+06				
387.2	143.96	1.58E+06				
460.07	157.24	2.23E+06				
329.1	125.27	1.01E+06				
371.18	163.57	1.95E+06				
393.24	189.02	2.76E+06				
364.89	151.97	1.65E+06				
443.1	177.72	2.75E+06				
422.77	127.08	1.34E+06				
301.11	157.33	1.46E+06				
281.74	142.36	1.12E+06				
428.01	148.64	1.86E+06				
381.1	127.53	1.22E+06				
336.65	155.04	1.59E+06				
400.98	160.84	2.04E+06				
440.42	140.64	1.71E+06				
404.14	145.93	1.69E+06				
358.84	153.1	1.65E+06				
442.49	136.31	1.61E+06				
372.29	174.56	2.23E+06				
326.83	151.22	1.47E+06				
456.45	163.57	2.40E+06				
374.74	143.96	1.52E+06				
401.69	177.16	2.48E+06	1.71E+06	4.36E+05	6.73E+04	7.18E+07

11-12 (2)

425.83	136.31	1.55E+06				
395.67	149.7	1.74E+06				
324.77	155.69	1.55E+06				
420.46	140.34	1.63E+06				
409.2	179.32	2.58E+06				

440.42	140.64	1.71E+06				
347.8	121.21	1.00E+06				
295.79	160.75	1.50E+06				
266.35	141.15	1.04E+06				
427.21	155.41	2.03E+06				
317.78	132.26	1.09E+06				
326.52	117.74	8.89E+05				
316.52	132.26	1.09E+06				
416.37	155.41	1.97E+06				
280.67	142.06	1.11E+06				
289.79	164.7	1.54E+06				
375.5	169.91	2.13E+06				
337.5	133.77	1.19E+06				
385.31	143.46	1.56E+06				
369.25	146.81	1.56E+06				
431.5	154.21	2.01E+06				
358.84	162.87	1.87E+06				
407.48	136.31	1.49E+06				
387.2	145.44	1.61E+06				
431.57	151.41	1.94E+06				
451.25	142.66	1.80E+06				
368.24	155.41	1.75E+06				
437.78	167.88	2.42E+06				
412.23	129.31	1.35E+06				
324.68	128.54	1.05E+06				
470.12	162.34	2.43E+06				
417.33	176.75	2.56E+06				
404.53	150.93	1.81E+06				
435.56	162.6	2.26E+06				
375.2	149.79	1.65E+06				
331.39	113.41	8.37E+05				
378.69	166.08	2.05E+06				
327.57	150.65	1.46E+06				
380.95	149.7	1.68E+06				
444.75	151.31	2.00E+06				
267.37	139.11	1.02E+06				
416.47	128.54	1.35E+06				
350.75	132.8	1.21E+06	1.63E+06	4.57E+05	6.97E+04	7.01E+07

11-12 (3)

354.84	134.94	1.27E+06
373.48	115.16	9.73E+05
454.28	141.25	1.78E+06
438.08	126.74	1.38E+06
414.99	153.1	1.91E+06
379.71	166	2.05E+06
446.96	136.62	1.64E+06
410.87	132.8	1.42E+06
432.63	139.42	1.65E+06
375.81	157.24	1.82E+06
420.46	136.31	1.53E+06
443.78	167.88	2.46E+06
454.44	171.08	2.61E+06
405.09	141.15	1.58E+06
399.41	141.15	1.56E+06
446.35	129.31	1.47E+06
392.15	162.87	2.04E+06
375.2	120.14	1.06E+06
262.46	148.64	1.14E+06
381.84	139.93	1.47E+06
458.32	138.8	1.73E+06
326.65	164	1.73E+06
409.27	172.75	2.40E+06
415.85	183.03	2.74E+06
403.08	142.06	1.60E+06
426.17	130.19	1.42E+06
216.51	155.41	1.03E+06
438.34	153.1	2.02E+06
426.1	146.03	1.78E+06
329.79	164.7	1.76E+06
395.78	169.83	2.24E+06
368.28	160.39	1.86E+06
294.24	155.87	1.40E+06
406.46	157.24	1.97E+06
442.72	133.66	1.55E+06
404.67	145.44	1.68E+06

447.82	170.58	2.56E+06				
390.87	176.51	2.39E+06				
439.48	156.51	2.11E+06				
348.13	136.31	1.27E+06				
331.65	142.06	1.31E+06				
354.32	149.7	1.56E+06	1.74E+06	4.39E+05	6.77E+04	7.29E+07
			1.68E+06	4.49E+05	4.87E+04	1.43E+08

21	441.04	158.33	2.17E+06			
	415.95	156.15	1.99E+06			
	407.62	142.06	1.62E+06			
	427.34	132.8	1.48E+06			
	404.53	143.96	1.65E+06			
	454.57	139.42	1.73E+06			
	456.83	143.96	1.86E+06			
	363.08	177.72	2.25E+06			
	374.28	139.11	1.42E+06			
	429.21	128.76	1.40E+06			
	403.29	143.66	1.63E+06			
	483.46	132.05	1.66E+06			
	368.59	136.31	1.34E+06			
	481.92	141.15	1.89E+06			
	389.22	134.09	1.37E+06			
	447.21	138.7	1.69E+06			
	400.8	143.86	1.63E+06			
	359.16	143.86	1.46E+06			
	389.99	124.7	1.19E+06			
	401.87	162.95	2.10E+06			
	366.26	139.42	1.40E+06			
	431.04	146.03	1.80E+06			
	425.83	130.52	1.42E+06			
	461.56	145.93	1.93E+06			
	412.23	150.08	1.82E+06			
	402.51	131.07	1.36E+06			
	409.83	151.22	1.84E+06			
	493.72	155.41	2.34E+06			
	407.8	134.94	1.46E+06			
	435.16	134.09	1.54E+06			
	435.16	148.26	1.88E+06			
	411.81	133.77	1.45E+06			
	390.43	133.77	1.37E+06			
	423.58	150.08	1.87E+06			
	402.54	164.7	2.14E+06			
	413.64	138.8	1.56E+06			
	442.33	124.81	1.35E+06			
	422.77	114.29	1.08E+06			
	412.23	137.97	1.54E+06			
	444.91	137.45	1.65E+06			
	442.68	130.52	1.48E+06	1.65E+06	2.93E+05	4.58E+04 6.78E+07

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15N-01	440.87	136.93	1.62E+06			
	366.06	139.93	1.41E+06			
	419.2	155.87	2.00E+06			
	441.94	149.79	1.95E+06			
	319.8	108.26	7.36E+05			
	410.04	137.04	1.51E+06			
	429.84	145.24	1.78E+06			
	383.34	141.55	1.51E+06			
	465.01	155.04	2.19E+06			

408.57	136.1	1.49E+06				
463.44	140.34	1.79E+06				
445.68	124.81	1.36E+06				
388.52	148.55	1.68E+06				
434.24	112.4	1.08E+06				
389.85	134.09	1.38E+06				
384.08	127.08	1.22E+06				
394.98	141.15	1.55E+06				
434.51	136.62	1.59E+06				
352.13	143.96	1.43E+06				
510.18	140.34	1.97E+06				
391.6	133.66	1.37E+06				
393.49	126.18	1.23E+06				
438.4	120.62	1.25E+06				
382.74	146.03	1.60E+06				
417.33	160.48	2.11E+06				
412.23	134.09	1.46E+06				
363.91	128.76	1.18E+06				
479.18	136.62	1.76E+06				
376.07	131.07	1.27E+06				
503.95	136.31	1.84E+06				
492.48	145.44	2.05E+06				
411.36	124.01	1.24E+06				
410.8	130.52	1.37E+06				
362.06	121.92	1.06E+06				
444.91	138.7	1.68E+06				
446.54	127.08	1.42E+06				
406.89	139.42	1.55E+06				
424.66	131.07	1.43E+06				
573.86	145.44	2.38E+06				
373.02	119.55	1.05E+06	1.54E+06	3.47E+05	5.48E+04	6.16E+07

15N-03

415.23	135.36	1.49E+06				
481.44	148.55	2.09E+06				
414.2	124.35	1.26E+06				
439.22	141.25	1.72E+06				
368.94	133.66	1.29E+06				
481.59	139.01	1.83E+06				
481.92	171.42	2.78E+06				
375.2	115.66	9.86E+05				
427.98	120.62	1.22E+06				
388.23	124.35	1.18E+06				
428.94	129.2	1.41E+06				
500.45	155.41	2.37E+06				
378.95	128.54	1.23E+06				
454.44	124.81	1.39E+06				
421.14	139.42	1.61E+06				
408.04	139.42	1.56E+06				
480.16	157.24	2.33E+06				
422.5	128.76	1.38E+06				
378.84	119.55	1.06E+06				
399.01	133.66	1.40E+06				
465.66	119.55	1.31E+06				
380.23	119.55	1.07E+06				
363.44	136.31	1.33E+06				
369.05	133.77	1.30E+06				
398.4	132.37	1.37E+06				
423.21	144.45	1.73E+06				
415.92	136.93	1.53E+06				
383.34	136.31	1.40E+06				
345.53	118.71	9.56E+05				
447.21	153.19	2.06E+06				
385.27	139.11	1.46E+06				
348.99	134.62	1.24E+06				
470.51	139.42	1.80E+06				
413.64	147.87	1.78E+06				
378.73	132.05	1.30E+06				
392.18	124.35	1.19E+06				
391.2	124.81	1.20E+06				
376.87	129.31	1.24E+06				
400.16	143.96	1.63E+06				
472.57	136.31	1.72E+06	1.50E+06	3.94E+05	6.23E+04	6.02E+07
					1+3	1.52E+06 369028.724 4.13E+04 1.22E+08

15N-02

418.42	120.62	1.20E+06				
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Oder 15N-04	514.39	154.21	2.40E+06				
	372.75	124.01	1.13E+06				
	418.59	136.31	1.53E+06				
	305.12	136.31	1.11E+06				
	379.63	128.31	1.23E+06				
	314.48	111.25	7.64E+05				
	375.39	134.94	1.34E+06				
	452.3	167.37	2.49E+06				
	439.9	150.56	1.96E+06				
	478.82	121.92	1.40E+06				
	489.45	161.81	2.52E+06				
	434.51	155.87	2.07E+06				
	426.81	147.87	1.83E+06				
	450.75	128.54	1.46E+06				
	363.32	143.96	1.48E+06				
	405.27	129.42	1.33E+06				
	386.01	151.31	1.74E+06				
	455.32	142.66	1.82E+06				
	416.95	128.76	1.36E+06				
	436.25	169.07	2.45E+06				
	342.54	134.09	1.21E+06				
	435.72	118.11	1.19E+06				
	421.38	164.7	2.24E+06				
	406.46	155.04	1.92E+06				
	423.68	136.31	1.55E+06				
	373.48	158.33	1.84E+06				
	473.51	136.31	1.73E+06				
	439.12	143.86	1.78E+06				
	414.16	125.84	1.29E+06				
	414.16	137.97	1.55E+06				
	423.58	128.76	1.38E+06				
	418.25	160.48	2.11E+06				
	399.01	117.38	1.08E+06				
	526.12	142.36	2.09E+06				
	450.75	139.01	1.71E+06				
	455.32	137.45	1.69E+06				
	383.3	143.96	1.56E+06				
	426.81	146.81	1.81E+06				
	450.27	147.49	1.92E+06	1.66E+06	4.27E+05	6.76E+04	6.62E+07

15N-05	443.88	156.51	2.13E+06
	412.23	155.87	1.97E+06
	466.39	169.83	2.64E+06
	404.81	149.79	1.78E+06
	432.49	140.64	1.68E+06
	431.57	166.34	2.34E+06
	367.19	132.8	1.27E+06
	482.54	140.64	1.87E+06
	453.15	153.93	2.11E+06
	476.34	158.96	2.36E+06
	476.1	167.88	2.63E+06
	442.2	174.07	2.63E+06
	407.17	138.8	1.54E+06
	431.04	166.51	2.35E+06
	460.56	162.6	2.39E+06
	450.75	175.86	2.74E+06
	450.18	180.91	2.89E+06
	502.81	173.49	2.97E+06
	483.07	165.82	2.61E+06
	469.32	147.49	2.00E+06
	425.7	136.31	1.55E+06
	389.85	153.1	1.79E+06
	407.8	167.79	2.25E+06
	440	146.03	1.84E+06
	517.36	189.48	3.65E+06
	449.73	162.34	2.33E+06
	519.51	181.86	3.37E+06
	584.52	167.88	3.23E+06
	351.77	139.93	1.35E+06
	452.55	167.03	2.48E+06
	387.09	166.08	2.10E+06
	472.93	158.96	2.35E+06
	358.21	155.04	1.69E+06
	426.1	149.12	1.86E+06

389.41	136.1	1.42E+06					
445.93	147.87	1.91E+06					
485.37	167.03	2.66E+06	2.24E+06	5.65E+05	9.29E+04	8.28E+07	

15N-06

516.5	175.37	3.12E+06									
466.85	151.97	2.12E+06									
449.92	143.96	1.83E+06									
556.25	203.16	4.51E+06									
387.46	155.04	1.83E+06									
479.18	143.96	1.95E+06									
419.2	162.95	2.19E+06									
366.88	140.34	1.42E+06									
470.6	153.93	2.19E+06									
461.77	181.62	2.99E+06									
376.3	153.93	1.75E+06									
318.01	143.96	1.29E+06									
525.2	163.65	2.76E+06									
339.82	159.5	1.70E+06									
385.53	139.01	1.46E+06									
418.42	160.21	2.11E+06									
439.22	160.75	2.23E+06									
402.26	150.56	1.79E+06									
385.31	158.69	1.91E+06									
386.79	174.07	2.30E+06									
421.14	194.32	3.12E+06									
399.55	164.7	2.13E+06									
474.83	180.91	3.05E+06									
471.03	141.15	1.84E+06									
492.59	144.75	2.03E+06									
495.17	164.7	2.64E+06									
358.57	198.46	2.77E+06									
371.95	170.83	2.13E+06									
481.32	155.04	2.27E+06									
538.95	151.22	2.42E+06									
408.92	146.03	1.71E+06									
413.89	160.21	2.09E+06									
477.27	147.87	2.05E+06									
403.29	151.41	1.82E+06									
382.74	141.25	1.50E+06									
470.6	133.77	1.65E+06									
415.95	123.08	1.24E+06									
361.54	134.09	1.28E+06									
388.23	153.1	1.79E+06									
385.9	158.96	1.91E+06	2.12E+06	6.30E+05	9.96E+04	8.49E+07	5+6	2.18E+06	598449.987	6.82E+04	1.68E+08

15N-09

348.54	145.44	1.45E+06
342.88	161.81	1.76E+06
397.83	162.95	2.07E+06
458.2	117.26	1.24E+06
397.4	128.76	1.29E+06
378.05	132.37	1.30E+06
350.26	132.05	1.20E+06
369.05	132.8	1.28E+06
368.28	137.04	1.36E+06
389.22	150.56	1.73E+06
441.72	156.15	2.11E+06
373.48	147.1	1.59E+06
376.11	139.42	1.44E+06
373.56	139.11	1.42E+06
342.04	148.26	1.48E+06
329.96	130.52	1.10E+06
353.02	146.81	1.49E+06
430.37	162.87	2.24E+06
369.56	145.24	1.53E+06
375.39	149.12	1.64E+06
356.13	128.76	1.16E+06
370.79	132.05	1.27E+06
409.27	132.05	1.40E+06
296.57	143.96	1.21E+06
355.04	142.66	1.42E+06
252.7	119.55	7.09E+05
383.9	164.7	2.04E+06
319.8	114.42	8.22E+05
310.37	115.41	8.12E+05

338.13	143.96	1.38E+06				
348.54	163.22	1.82E+06				
325.6	146.03	1.36E+06				
404.1	153.1	1.86E+06				
419.78	144.75	1.73E+06				
353.55	149.12	1.54E+06				
333.02	129.31	1.09E+06				
387.93	145.93	1.62E+06				
380.95	128.76	1.24E+06				
415.85	155.41	1.97E+06				
337.63	141.55	1.33E+06				
417.15	144.35	1.71E+06				
468.84	140.34	1.81E+06				
393.46	136.31	1.44E+06				
393.35	133.98	1.39E+06				
389.99	155.41	1.85E+06				
325.47	143.96	1.32E+06				
349.16	141.55	1.37E+06				
363.71	139.01	1.38E+06				
433.88	155.87	2.07E+06				
318.73	110.22	7.60E+05				
470.39	122.03	1.38E+06				
343.21	150.08	1.52E+06				
456.79	149.12	1.99E+06				
346.69	143.46	1.40E+06				
341.04	153.1	1.57E+06				
418.83	152.07	1.90E+06				
329.96	135.25	1.19E+06				
301.02	147.1	1.28E+06				
385.61	121.21	1.11E+06				
338.35	139.93	1.30E+06				
419.65	170.5	2.40E+06				
358.84	136.31	1.31E+06				
373.67	142.36	1.49E+06				
305.91	124.01	9.24E+05				
421.69	144.45	1.73E+06				
381.99	146.81	1.62E+06				
339.86	111.64	8.32E+05				
421.25	150.93	1.88E+06				
388.23	150.56	1.73E+06				
318.73	141.15	1.25E+06				
345.7	136.62	1.27E+06				
371.06	132.05	1.27E+06				
345.53	152.07	1.57E+06				
428.54	136.93	1.58E+06				
338.68	132.26	1.16E+06	1.47E+06	3.48E+05	4.01E+04	1.10E+08

15N-15	461.46	162.60	2.40E+06				
	341.92	151.22	1.54E+06				
	433.29	166.00	2.34E+06				
	428.01	155.41	2.03E+06				
	396.97	162.95	2.07E+06				
	402.12	170.58	2.30E+06				
	375.50	172.75	2.20E+06				
	304.79	150.56	1.36E+06				
	342.04	137.04	1.26E+06				
	419.41	158.33	2.06E+06				
	306.38	131.50	1.04E+06	1.87E+06	4.83E+05	1.46E+05	2.06E+07

15N-19	333.8	124.7	1.02E+06				
	440.87	143.96	1.79E+06				
	406.64	141.25	1.59E+06				
	377.78	129.2	1.24E+06				
	314.48	137.04	1.16E+06				
	418.25	139.42	1.60E+06				
	412.92	123.43	1.24E+06				
	392.48	150.93	1.76E+06				
	456.98	143.46	1.85E+06				
	402.12	145.44	1.67E+06				
	408.92	156.15	1.96E+06				
	435.56	120.97	1.25E+06				
	334.05	141.15	1.31E+06				

414.99	125.16	1.28E+06				
439.48	129.42	1.45E+06				
513.5	147.49	2.19E+06				
338.13	137.97	1.26E+06				
390.32	133.77	1.37E+06				
409.86	136.62	1.50E+06				
402.26	129.31	1.32E+06				
403.08	130.19	1.34E+06				
374.44	109.7	8.85E+05				
411.71	144.45	1.69E+06				
416.4	147.1	1.77E+06				
364.97	114.79	9.44E+05				
442.33	141.25	1.73E+06				
403.68	140.64	1.57E+06				
429.84	124.01	1.30E+06				
363.55	115.16	9.47E+05				
432.79	141.25	1.70E+06				
345.16	141.15	1.35E+06				
499.76	143.96	2.03E+06				
326.65	122.15	9.57E+05				
402.54	124.35	1.22E+06				
404.67	106.12	8.95E+05				
417.6	145.44	1.73E+06				
423.01	147.1	1.80E+06				
382.11	128.54	1.24E+06				
348.13	121.21	1.00E+06				
458.2	120.97	1.32E+06				
425.7	163.57	2.24E+06				
437.26	146.81	1.85E+06				
365.83	105.31	7.97E+05				
296.42	140.34	1.15E+06				
362.17	139.93	1.39E+06				
393.17	160.84	2.00E+06				
451.25	115.66	1.19E+06				
354.32	140.64	1.38E+06				
369.25	144.75	1.52E+06				
374.25	149.79	1.65E+06	1.45E+06	3.53E+05	4.99E+04	7.24E+07

15N-20

341.21	133.66	1.20E+06
323.13	130.52	1.08E+06
374.25	144.45	1.53E+06
342.17	155.14	1.62E+06
357.37	143.86	1.45E+06
385.42	139.01	1.46E+06
423.44	161.63	2.17E+06
455.23	146.81	1.93E+06
320.96	145.93	1.34E+06
357.73	146.81	1.51E+06
420.84	134.09	1.49E+06
345.04	140.64	1.34E+06
303.99	141.15	1.19E+06
421.25	160.21	2.12E+06
391.56	132.05	1.34E+06
435.26	145.93	1.82E+06
394.22	115.16	1.03E+06
421.58	158.33	2.08E+06
349.97	143.86	1.42E+06
358.65	130.08	1.19E+06
371.37	175.37	2.24E+06
397.94	145.93	1.66E+06
411.25	141.15	1.61E+06
412.23	134.94	1.47E+06
361.82	141.15	1.42E+06
408.57	162.95	2.13E+06
397.36	145.93	1.66E+06
370.14	151.22	1.66E+06
375.5	129.31	1.23E+06
384.98	128.42	1.25E+06
396.97	139.93	1.53E+06
419.41	151.22	1.88E+06
378.05	145.93	1.58E+06
363.44	148.26	1.57E+06
373.25	117.74	1.02E+06
431.2	142.06	1.71E+06

388.23	148.93	1.69E+06				
324.77	132.05	1.11E+06				
363.44	155.41	1.72E+06				
374.59	139.42	1.43E+06				
298.68	128.76	9.72E+05				
448.74	147.1	1.91E+06				
442.33	143.66	1.79E+06				
404.21	133.66	1.42E+06				
383.34	134.62	1.36E+06				
345.7	144.45	1.42E+06				
359.44	155.87	1.71E+06				
422.4	139.01	1.60E+06				
391.6	132.8	1.36E+06				
337.2	137.04	1.24E+06				
474.14	141.25	1.86E+06				
338.13	145.44	1.40E+06				
358.37	155.14	1.69E+06				
358.65	158.33	1.77E+06				
355	154.21	1.66E+06				
464.24	110.22	1.11E+06				
394.98	151.97	1.79E+06				
384.08	141.15	1.50E+06				
361.54	165.05	1.93E+06				
277.24	133.66	9.72E+05				
345.04	155.04	1.63E+06				
273.87	139.93	1.05E+06				
320.83	146.03	1.34E+06	1.50E+06	2.87E+05	4.54E+04	5.99E+07

A3	284.62	154.21	1.33E+06				
	390.25	162.6	2.03E+06				
	492.33	149.79	2.17E+06				
	396.93	155.41	1.88E+06				
	425.1	145.93	1.78E+06				
	390.87	163.65	2.06E+06				
	239.4	124.7	7.31E+05				
	414.47	169.83	2.35E+06				
	382.56	138.7	1.45E+06				
	409.27	157.24	1.99E+06				
	362.92	155.41	1.72E+06	1.77E+06	4.56E+05	1.38E+05	1.95E+07

Sample	Length	Diameter	Mean	1sd	1sem	total	
15N-10	256.85	91.05	4.18E+05				
	239.1	110.22	5.70E+05				
	282.35	99.88	5.53E+05				
	288.36	110.22	6.88E+05				
	256.01	98.15	4.84E+05				
	256.68	106.93	5.76E+05				
	242.42	95.19	4.31E+05				
	318.01	87.03	4.73E+05				
	254.67	95.19	4.53E+05				
	230.14	85.54	3.31E+05				
	264.15	84.53	3.71E+05				
	279.86	96.83	5.15E+05				
	314.53	117.26	8.49E+05				
	306.24	94.74	5.40E+05				
	194.61	72.72	2.02E+05				
	245.29	83	3.32E+05				
	277.86	88.5	4.27E+05				
	284.77	103.81	6.03E+05				
	270.72	92.29	4.53E+05				
	309.03	102.84	6.42E+05				
	249.62	87.03	3.71E+05				
	283.56	101.58	5.75E+05				
	229.96	91.36	3.77E+05				
	251.34	95.64	4.51E+05				
	262.46	96.83	4.83E+05				
	298.25	101.44	6.03E+05				
	247.21	90.89	4.01E+05				
	213.45	93.37	3.65E+05				
	261.32	98.15	4.94E+05				
	249.62	106.12	5.52E+05				
	262.19	94.74	4.62E+05				
	333.58	107.46	7.56E+05				
	308.52	91.52	5.07E+05				
	294.83	96.83	5.43E+05				
	263.28	100.88	5.26E+05				
	292.3	90.73	4.72E+05				
	294.24	113.29	7.42E+05				
	230.89	102.14	4.73E+05				
	284.77	102.7	5.90E+05	5.04E+05	1.26E+05	2.02E+04	1.97E+07

Sample	2c	2a			Mean	1sd	1sem	total
31 441	484	379	208.744	1.50E+07				
	351	285	143.441	5.64E+06				
	498	383	215.618	1.62E+07				
	511	454	222.001	2.02E+07				
	434	363	184.194	1.14E+07				
	489	428	211.199	1.74E+07				
	406	324	170.446	8.81E+06				
	337	289	136.567	5.22E+06				
	354	287	144.914	5.78E+06				
	377	306	156.207	7.08E+06				
	403	335	168.973	8.96E+06				
	631	545	280.921	3.79E+07				
	461	341	197.451	1.22E+07				
	431	359	182.721	1.11E+07				
	407	366	170.937	1.00E+07				
	428	326	181.248	9.93E+06				
	467	359	200.397	1.32E+07				
	495	405	214.145	1.69E+07				
	411	382	172.901	1.07E+07				
	528	436	230.348	2.08E+07				
545	470	238.695	2.40E+07					
438	373	186.158	1.19E+07					
501	368	217.091	1.57E+07					
533	413	232.803	2.01E+07					
502	361	217.582	1.55E+07	1.41E+07	7.10E+06	1.42E+06	3.52E+08	
32	472.69	423.68	203.19079	1.60E+07				
	454.44	415.13	194.23004	1.44E+07				
	500.45	445.04	216.82095	1.90E+07				
	470.06	394.33	201.89946	1.47E+07				
	494.3	433.35	213.8013	1.80E+07				
	555.71	445.13	243.95361	2.37E+07				
	541.67	431.04	237.05997	2.17E+07				
	480.22	439.9	206.88802	1.72E+07				
	380.19	331.65	157.77329	7.81E+06				
	530.61	421.58	231.62951	2.04E+07				
	476.07	410.87	204.85037	1.57E+07				
	474.5	419.65	204.0795	1.60E+07				
	454.47	401.12	194.24477	1.39E+07				
	476.91	392.48	205.26281	1.51E+07				
	491.46	421.79	212.40686	1.73E+07				
	577.51	492.91	254.65741	2.85E+07				
	514.25	434.24	223.59675	1.96E+07				
	521.35	435.72	227.08285	2.03E+07				
	502.81	397.11	217.97971	1.71E+07				
	490.59	412.75	211.97969	1.69E+07				
507.99	415.4	220.52309	1.83E+07					
532.74	493.37	232.67534	2.40E+07	1.80E+07	4.23E+06	9.02E+05	3.95E+08	

33	593.83	498.82	262.67053	3.06E+07				
	552.36	430.54	242.30876	2.26E+07				
	531.26	450.75	231.94866	2.18E+07				
	530.37	466.21	231.51167	2.25E+07				
	563.1	425.7	247.5821	2.33E+07				
	573.96	499.76	252.91436	2.85E+07				
	517.72	431.5	225.30052	1.98E+07				
	553.81	463.9	243.02071	2.45E+07				
	471.75	400.98	202.72925	1.51E+07				
	596.04	490.15	263.75564	3.03E+07				
	494.24	434.41	213.77184	1.80E+07				
	449.92	367.35	192.01072	1.25E+07				
	548.49	464.27	240.40859	2.40E+07				
	526.5	431.87	229.6115	2.05E+07				
	443.78	396.71	188.99598	1.31E+07				
	484.9	410.84	209.1859	1.64E+07				
	534.56	452.3	233.56896	2.22E+07				
	494.76	433.19	214.02716	1.80E+07				
	485.46	444.78	209.46086	1.78E+07				
	533.7	447.69	233.1467	2.19E+07	2.12E+07	5.08E+06	1.14E+06	4.23E+08

23	457.58	351.6	195.77178	1.24E+07				
	405.76	302.67	170.32816	8.22E+06				
	385.53	304.74	160.39523	7.40E+06				
	379.71	328.27	157.53761	7.71E+06				
	347.51	274.96	141.72741	5.32E+06				
	431.24	302.53	182.83884	9.37E+06				
	434.9	405.37	184.6359	1.28E+07				
	514.61	456.73	223.77351	2.07E+07				
	508.92	409.2	220.97972	1.81E+07				
	406.11	341.58	170.50001	9.29E+06				
	423.21	325.73	178.89611	9.69E+06				
	461.46	356.13	197.67686	1.28E+07				
	460.94	412.75	197.42154	1.48E+07				
	372.41	333.02	153.95331	7.50E+06				
	412.75	350.75	173.76025	9.88E+06				
	391.6	337.5	163.3756	8.48E+06				
	408.36	340.32	171.60476	9.37E+06				
	450.02	345.7	192.05982	1.17E+07				
	534.88	459.91	233.72608	2.26E+07				
	343.92	296.95	139.96472	5.61E+06				
	492.13	368.63	212.73583	1.52E+07	1.14E+07	4.68E+06	1.02E+06	2.39E+08

15N-08	465.16	374.28	199.49356	1.36E+07				
	565.66	446.35	248.83906	2.47E+07				
	499.25	427.98	216.23175	1.81E+07				
	452.8	379.25	193.4248	1.30E+07				
	365.83	308.47	150.72253	6.68E+06				
	455.92	393.24	194.95672	1.37E+07				
	471.97	401.55	202.83727	1.51E+07				

448.39	363.63	191.25949	1.22E+07				
469.02	393.46	201.38882	1.46E+07				
527.45	392.08	230.07795	1.87E+07				
529.72	427.74	231.19252	2.06E+07				
515.03	412.54	223.97973	1.87E+07				
481.44	417.15	207.48704	1.64E+07				
454.28	396.93	194.15148	1.38E+07				
481.92	414.3	207.72272	1.63E+07				
409.27	346.69	172.05157	9.59E+06	1.54E+07	4.31E+06	1.08E+06	2.46E+08

15N-12

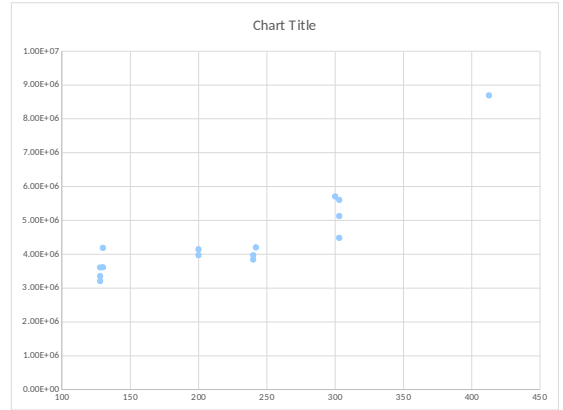
545.57	449.22	238.97487	2.30E+07				
442.33	397.4	188.28403	1.30E+07				
523.64	437.78	228.20724	2.05E+07				
438.79	377.48	186.54589	1.21E+07				
395.96	333.02	165.51636	8.57E+06				
516.03	409.16	224.47073	1.86E+07				
404.24	348.29	169.58184	9.38E+06				
447.63	396.97	190.88633	1.33E+07				
501.56	389.99	217.36596	1.67E+07				
465.66	405.94	199.73906	1.48E+07				
465.01	415.92	199.41991	1.52E+07	1.50E+07	4.46E+06	1.34E+06	1.65E+08

F1::#	F2::Tool	F3::Feature	F4::Unit	F5::Value
1	Length	Distance	μm	441.04
2	Length	Distance	μm	158.33
3	Length	Distance	μm	415.95
4	Length	Distance	μm	156.15
5	Length	Distance	μm	407.62
6	Length	Distance	μm	142.06
7	Length	Distance	μm	427.34
8	Length	Distance	μm	132.8
9	Length	Distance	μm	404.53
10	Length	Distance	μm	143.96
11	Length	Distance	μm	454.57
12	Length	Distance	μm	139.42
13	Length	Distance	μm	456.83
14	Length	Distance	μm	143.96
15	Length	Distance	μm	363.08
16	Length	Distance	μm	177.72
17	Length	Distance	μm	374.28
18	Length	Distance	μm	139.11
19	Length	Distance	μm	429.21
20	Length	Distance	μm	128.76
21	Length	Distance	μm	403.29
22	Length	Distance	μm	143.66
23	Length	Distance	μm	483.46
24	Length	Distance	μm	132.05
25	Length	Distance	μm	368.59
26	Length	Distance	μm	136.31
27	Length	Distance	μm	481.92
28	Length	Distance	μm	141.15
29	Length	Distance	μm	389.22
30	Length	Distance	μm	134.09
31	Length	Distance	μm	447.21
32	Length	Distance	μm	138.7
33	Length	Distance	μm	400.8
34	Length	Distance	μm	143.86
35	Length	Distance	μm	359.16
36	Length	Distance	μm	143.86
37	Length	Distance	μm	389.99
38	Length	Distance	μm	124.7
39	Length	Distance	μm	401.87
40	Length	Distance	μm	162.95
41	Length	Distance	μm	366.26
42	Length	Distance	μm	139.42
43	Length	Distance	μm	431.04
44	Length	Distance	μm	146.03
45	Length	Distance	μm	425.83
46	Length	Distance	μm	130.52

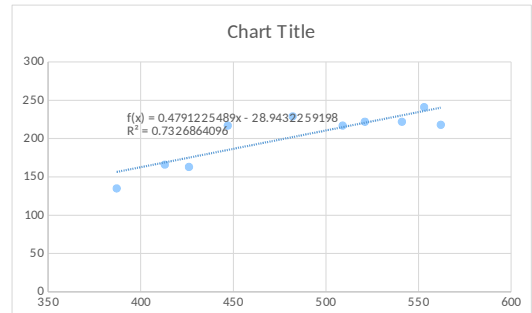
47 Length	Distance	μm	461.56
48 Length	Distance	μm	145.93
49 Length	Distance	μm	412.23
50 Length	Distance	μm	150.08
51 Length	Distance	μm	402.51
52 Length	Distance	μm	131.07
53 Length	Distance	μm	409.83
54 Length	Distance	μm	151.22
55 Length	Distance	μm	493.72
56 Length	Distance	μm	155.41
57 Length	Distance	μm	407.8
58 Length	Distance	μm	134.94
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60 Length	Distance	μm	134.09
61 Length	Distance	μm	435.16
62 Length	Distance	μm	148.26
63 Length	Distance	μm	411.81
64 Length	Distance	μm	133.77
65 Length	Distance	μm	390.43
66 Length	Distance	μm	133.77
67 Length	Distance	μm	423.58
68 Length	Distance	μm	150.08
69 Length	Distance	μm	402.54
70 Length	Distance	μm	164.7
71 Length	Distance	μm	413.64
72 Length	Distance	μm	138.8
73 Length	Distance	μm	442.33
74 Length	Distance	μm	124.81
75 Length	Distance	μm	422.77
76 Length	Distance	μm	114.29
77 Length	Distance	μm	412.23
78 Length	Distance	μm	137.97
79 Length	Distance	μm	444.91
80 Length	Distance	μm	137.45
81 Length	Distance	μm	442.68
82 Length	Distance	μm	130.52

Sample Date Station Species Depth N (specimens) mean cell vo 1sd 1sem

6 09.05.17	St 641	B. seminuda	128	10	3.21E+06	8.88E+05	2.81E+05
7 09.05.17	St 641	B. seminuda	128	10	3.61E+06	1.35E+06	4.28E+05
8 09.05.17	St 641	B. seminuda	128	10	3.36E+06	5.20E+05	1.64E+05
15 15.05.17	St 695	B. seminuda	130	13	3.62E+06	8.75E+05	2.43E+05
16 15.05.17	St 695	B. seminuda	130	13	4.19E+06	8.57E+05	2.38E+05
27 18.05.17	St 756	B. seminuda	242	8	4.20E+06	9.63E+05	3.40E+05
29 19.05.17	St 776	B. seminuda	303	7	4.49E+06	7.31E+05	2.76E+05
30 19.05.17	St 776	B. seminuda	303	8	5.61E+06	1.94E+06	6.87E+05
31 19.05.17	St 776	B. seminuda	303	8	5.13E+06	1.69E+06	5.96E+05
38 20.05.17	St 788	B. seminuda	412.6	6	8.70E+06	7.26E+06	2.97E+06
43 22.05.17	813 B. seminuda	240	8	3.97E+06	9.02E+05	3.19E+05	
44 22.05.17	813 B. seminuda	240	8	3.84E+06	1.39E+06	4.92E+05	
47 23.05.17	826 B. seminuda	300	10	5.71E+06	2.05E+06	6.47E+05	
49 23.05.17	825 B. seminuda	200	8	4.15E+06	9.13E+05	3.45E+05	
50 23.05.17	825 B. seminuda	200	7	3.97E+06	9.30E+05	3.52E+05	



	Length	depth
1	447	217
2	482	229
3	426	163
4	387	135
5	562	218
6	413	166
7	509	217
8	541	222
9	521	222
10	553	241



	Length	Depth
1	623	141
2	608	129
3	670	130

133.333333
6.65832812

