

Appendix D4: Density and abundance estimates, additional tables

Appendix D4 Table 1. Red crab numerical density (N/ha) for 1974 and the mean (+1SE) of four surveys conducted between 2003 and 2005. Densities are presented by depth and sector for all crabs, those ≥ 114 mm carapace width (“commercial size” as defined by Wigley et al. 1975), and males ≥ 114 mm. Empty cells in the 1974 density table indicate no samples taken. Empty cells in the SE 2003-2005 table indicate insufficient data to calculate an error term. Standard errors computed for the four surveys in 2003-2005.

All crabs							Crabs ≥ 114 mm						Male Crabs ≥ 114 mm					
1974							1974						1974					
Depth (fath)	Depth (m)	A	B	C	D	Avg	Depth (fath)	A	B	C	D	Avg	Depth (fath)	A	B	C	D	Avg
125-175	229-320	22.6	13.2	28.4	20.2	21.1	125-175	7.4	13.2	19.8	13.5	13.5	125-175	6.0	13.2	19.8	0.0	9.7
175-225	320-412	270.8		376.4	127.8	258.3	175-225	62.5		149.7		106.1	175-225	20.8		140.6		80.7
225-275	412-503	256.1	199.3	282.2	355.2	273.2	225-275	35.6	31.1	71.7	63.9	50.6	225-275	32.0	26.5	67.2	63.9	47.4
275-350	503-640	197.7	266.7	381.6		282.0	275-350	53.9	72.7	52.3		59.6	275-350	53.9	72.7	52.3		59.6
350-500	640-914	70.9		111.8		91.4	350-500	6.4		19.9		13.2	350-500	6.4		19.9		13.2
Total						185.2	Total					48.6	Total					42.1
Average 2003-2005							Average 2003-2005						Average 2003-2005					
Depth (fath)	Depth (m)	A	B	C	D	Avg	Depth (fath)	A	B	C	D	Avg	Depth (fath)	A	B	C	D	Avg
125-175	229-320	156.7	64.0	0.0	69.2	72.5	125-175	35.3	2.1	0.1	9.4	11.7	125-175	15.7	0.6	0.0	0.0	4.1
175-225	320-412	598.8	172.6	178.4	38.1	247.0	175-225	74.8	4.1	6.4	2.2	21.9	175-225	0.0	0.0	3.5	0.0	0.9
225-275	412-503	943.7	867.9	982.5	1573.3	1091.9	225-275	42.4	10.6	51.3	88.5	48.2	225-275	15.0	1.8	35.1	31.4	20.8
275-350	503-640	1127.2	587.1	1641.8	2860.3	1554.1	275-350	77.9	15.0	52.8	380.8	131.6	275-350	46.6	5.9	42.7	312.9	102.0
350-500	640-914	645.1	588.9	1058.2	1244.3	884.1	350-500	23.9	13.7	48.8	81.4	41.9	350-500	16.4	8.1	41.3	72.2	34.5
Total						769.9	Total					51.1	Total					32.4
SE 2003-2005							SE 2003-2005						SE 2003-2005					
Depth (fath)	Depth (m)	A	B	C	D	Avg	Depth (fath)	A	B	C	D	Avg	Depth (fath)	A	B	C	D	Avg
125-175	229-320	114.4	47.2	0.0	69.2	44.0	125-175	25.7	1.6	0.1	9.4	7.1	125-175	11.4	0.4	0.0	0.0	2.3
175-225	320-412	452.1	2.2	81.3		126.8	175-225	56.5	0.1	2.9		15.0	175-225	0.0	0.0	1.6		0.4
225-275	412-503	333.7	250.4	218.4	795.9	327.5	225-275	15.0	3.1	11.4	44.8	14.8	225-275	5.3	0.5	7.8	15.9	5.9
275-350	503-640		109.0	985.9	913.0	242.8	275-350		2.8	31.7	121.5	37.3	275-350		1.1	25.6	99.9	29.9
350-500	640-914	162.0	149.0	209.3	314.0	57.9	350-500	6.0	3.5	9.6	20.6	4.5	350-500	4.1	2.1	8.2	18.2	4.2
Total						19.7	Total					10.5	Total					6.0

Appendix D4 Table 2 . Red crab biomass density (kg per hectare) for 1974 and the mean (+1SE) of four surveys conducted between 2003 and 2005. Densities presented by depth and sector for all crabs, those ≥ 114 mm carapace width (“commercial size” as defined by Wigley et al. 1975), and males ≥ 114 mm. Empty cells in the 1974 density table indicate no samples taken. Empty cells in the SE 2003-2005 table indicate insufficient data to calculate an error term. Standard errors computed for the four surveys in 2003-2005.

All crabs							Crabs ≥ 114 mm						Male Crabs ≥ 114 mm					
1974							1974						1974					
Depth (fath)	Depth (m)	A	B	C	D	Avg	Depth (fath)	A	B	C	D	Avg	Depth (fath)	A	B	C	D	Avg
125-175	229-320	11.1	9.0	14.1	7.3	10.4	125-175	4.1	7.2	12.1	5.2	7.1	125-175	3.5	7.2	12.1	0.0	5.7
175-225	320-412	74.5		157.3	52.7	94.8	175-225	30.8		97.3		64.1	175-225	14.8		93.8		54.3
225-275	412-503	82.2	56.6	97.6	114.0	87.6	225-275	21.8	18.4	43.9	39.4	30.9	225-275	20.4	16.6	42.2	39.4	29.7
275-350	503-640	57.1	79.7	101.5		79.4	275-350	33.4	45.1	29.5		36.0	275-350	33.4	45.1	29.5		36.0
350-500	640-914	10.7		43.6		27.2	350-500	3.6		10.8		7.2	350-500	3.6		10.8		7.2
Total						59.9	Total					29.1	Total					26.6
Average 2003-2005							Average 2003-2005						Average 2003-2005					
Depth (fath)	Depth (m)	A	B	C	D	Avg	Depth (fath)	A	B	C	D	Avg	Depth (fath)	A	B	C	D	Avg
125-175	229-320	28.5	14.0	1.4	9.6	13.4	125-175	15.2	1.0	0.0	3.8	5.0	125-175	7.6	0.3	0.0	0.0	2.0
175-225	320-412	171.9	31.3	37.2	7.5	62.0	175-225	29.1	1.5	2.9	0.9	8.6	175-225	0.0	0.0	1.7	0.0	0.4
225-275	412-503	186.0	101.1	217.3	352.4	214.2	225-275	18.3	3.2	25.5	38.5	21.4	225-275	7.7	0.9	19.2	16.4	11.0
275-350	503-640	254.2	80.2	351.6	662.8	337.2	275-350	38.3	4.6	21.8	192.9	64.4	275-350	25.8	3.4	18.6	167.7	53.9
350-500	640-914	92.8	94.9	216.9	232.1	159.1	350-500	12.5	6.6	25.4	47.9	23.1	350-500	9.6	4.5	22.5	44.5	20.2
Total						157.2	Total					24.5	Total					17.5
SE 2003-2005							SE 2003-2005						SE 2003-2005					
Depth (fath)	Depth (m)	A	B	C	D	Avg	Depth (fath)	A	B	C	D	Avg	Depth (fath)	A	B	C	D	Avg
125-175	229-320	21.8	10.3	1.4	9.6	9.5	125-175	9.6	0.6	0.0	3.3	2.7	125-175	5.6	0.2	0.0	0.0	1.1
175-225	320-412	129.8	0.4	16.9		35.6	175-225	19.0	0.0	1.1		5.3	175-225	0.0	0.0	0.8		0.2
225-275	412-503	65.7	51.4	48.3	178.3	68.9	225-275	5.8	1.4	5.1	16.9	5.9	225-275	2.7	0.3	4.3	8.3	3.1
275-350	503-640		32.2	211.2	211.6	49.3	275-350		1.6	8.9	53.3	17.4	275-350		0.6	8.8	53.5	16.9
350-500	640-914	23.3	24.0	42.9	58.6	11.0	350-500	2.8	1.5	4.5	10.8	2.4	350-500	2.4	1.1	4.4	11.2	2.6
Total						32.9	Total					4.5	Total					3.4

Appendix D4 Table 3. Red crab numerical abundance estimates in thousands of individuals for 1974 and the mean (+1SE) of four surveys conducted between 2003 and 2005. Estimates presented by depth and sector for all crabs, those ≥ 114 mm carapace width (“commercial size” as defined by Wigley et al. 1975), and males ≥ 114 mm. Abundances were summed across sectors and depths for total standing crop estimate. For strata with no density information (Table 5.4), standing crop was determined by using the average density for that depth. Empty cells in the SE 2003-2005 table indicate insufficient data to calculate an error term. Standard errors computed for the four surveys in 2003-2005.

All crabs						
1974						
Depth (fath)	Depth (m)	A	B	C	D	All
125-175	229-320	685.0	235.0	1562.0	790.0	3272.0
175-225	320-412	11861.0	6974.0	28343.0	8192.0	55370.0
225-275	412-503	5993.0	3428.0	10526.0	9413.0	29360.0
275-350	503-640	8798.0	7548.0	23888.0	8150.0	48384.0
350-500	640-914	4651.0	4369.0	7122.0	5192.0	21334.0
Total						157720.0

Crabs ≥ 114 mm						
1974						
Depth (fath)	A	B	C	D	All	
125-175	224.7	235.0	1086.6	526.7	2073.0	
175-225	2737.2	1909.0	11268.9	4532.8	20447.9	
225-275	832.4	535.6	2673.3	1692.2	5733.5	
275-350	2399.5	2058.5	3272.3	1723.7	9454.0	
350-500	422.8	630.2	1268.3	749.0	3070.3	
Total					40778.7	

Male Crabs ≥ 114 mm						
1974						
Depth (fath)	A	B	C	D	All	
125-175	180.8	235.0	1086.6	0.0	1502.4	
175-225	912.4	1452.5	10585.9	3448.9	16399.7	
225-275	749.1	455.3	2506.2	1692.2	5402.8	
275-350	2399.5	2058.5	3272.3	1723.7	9454.0	
350-500	422.8	630.2	1268.3	749.0	3070.3	
Total					35829.3	

Average 2003-2005						
Depth (fath)	Depth (m)	A	B	C	D	All
125-175	229-320	4749.0	1139.8	0.0	2707.9	8596.7
175-225	320-412	26226.1	4660.3	13434.8	2443.3	46764.4
225-275	412-503	22084.4	14928.7	36647.2	41692.2	115352.5
275-350	503-640	50162.9	16617.0	102773.2	82664.4	252217.4
350-500	640-914	42319.5	28164.8	67411.7	70719.3	208615.3
Total						631546.3

Average 2003-2005						
Depth (fath)	A	B	C	D	All	
125-175	1068.5	38.3	4.2	369.3	1480.3	
175-225	3278.3	110.1	479.5	143.7	4011.5	
225-275	991.7	182.8	1914.3	2346.1	5434.9	
275-350	3466.2	423.6	3306.6	11004.0	18200.4	
350-500	1565.3	655.2	3107.4	4628.7	9956.7	
Total					39083.8	

Average 2003-2005						
Depth (fath)	A	B	C	D	All	
125-175	474.9	10.4	0.0	0.0	485.3	
175-225	0.0	0.0	263.7	0.0	263.7	
225-275	352.0	30.5	1309.7	830.9	2523.1	
275-350	2072.1	167.9	2670.5	9042.3	13953.0	
350-500	1073.3	388.2	2629.0	4101.4	8191.8	
Total					25417.0	

SE 2003-2005						
Depth (fath)	Depth (m)	A	B	C	D	All
125-175	229-320	3467.6	839.6	0.0	2707.9	5376.8
175-225	320-412	19800.9	59.3	6120.9		19663.4
225-275	412-503	7807.8	4307.5	8147.0	21092.1	34584.1
275-350	503-640		3084.5	61717.6	26387.8	32751.0
350-500	640-914	10629.0	7127.0	13331.3	17849.4	13988.3
Total						71465.2

SE 2003-2005						
Depth (fath)	A	B	C	D	All	
125-175	780.2	28.2	4.2	369.3	910.5	
175-225	2475.1	1.4	218.4		2091.8	
225-275	350.6	52.7	425.6	1186.9	1664.6	
275-350		78.6	1985.7	3512.7	3571.6	
350-500	393.2	165.8	614.5	1168.3	1052.6	
Total					5253.4	

SE 2003-2005						
Depth (fath)	A	B	C	D	All	
125-175	272.4	6.0	0.0	0.0	278.3	
175-225	0.0	0.0	107.5		107.5	
225-275	124.5	8.8	291.2	362.6	706.3	
275-350		31.2	1011.4	3045.7	2809.5	
350-500	269.6	98.2	519.9	1035.2	969.3	
Total					2698.2	

Appendix D4 Table 4. Red crab standing biomass estimates (mt) for 1974 and the mean (+1SE) of four surveys conducted between 2003 and 2005. Estimates presented by depth and sector for all crabs, those ≥ 114 mm carapace width (“commercial size” as defined by Wigley et al. 1975), and males ≥ 114 mm. For strata with no density information (Table 5.4), standing crop was determined by using the average density for that depth. Empty cells in the SE 2003-2005 table indicate insufficient data to calculate an error term. Standard errors computed for the four surveys in 2003-2005.

All crabs							Crabs ≥ 114 mm						Male Crabs ≥ 114 mm					
1974							1974						1974					
Depth (fath)	Depth (m)	A	B	C	D	All	Depth (fath)	A	B	C	D	All	Depth (fath)	A	B	C	D	All
125-175	229-320	336.4	160.2	775.5	285.5	1557.7	125-175	123.8	128.5	663.8	202.5	1118.6	125-175	106.9	128.5	663.8	0.0	899.2
175-225	320-412	3263.1	2560.1	11844.7	3378.1	21046.0	175-225	1350.5	1152.9	7325.4	4106.2	13935.0	175-225	648.6	977.6	7065.7	3482.0	12173.9
225-275	412-503	1923.6	973.5	3640.5	3021.1	9558.6	225-275	509.4	317.3	1636.8	1044.5	3507.9	225-275	477.5	285.8	1574.8	1044.5	3382.6
275-350	503-640	2541.1	2255.6	6353.9	2294.7	13445.3	275-350	1488.5	1277.1	1847.9	1041.3	5654.8	275-350	1488.5	1277.1	1847.9	1041.3	5654.8
350-500	640-914	701.9	1300.0	2777.5	1545.9	6325.3	350-500	236.9	345.6	690.6	410.7	1683.8	350-500	236.9	345.6	690.6	410.7	1683.8
Total						51932.9	Total					25900.2	Total					23794.4
Average 2003-2005							Average 2003-2005						Average 2003-2005					
Depth (fath)	Depth (m)	A	B	C	D	All	Depth (fath)	A	B	C	D	All	Depth (fath)	A	B	C	D	All
125-175	229-320	864.0	248.8	77.4	375.1	1565.3	125-175	461.2	17.0	1.7	147.3	627.2	125-175	231.2	5.3	0.0	0.0	236.5
175-225	320-412	7530.9	846.1	2797.9	481.3	11656.2	175-225	1275.5	41.8	214.6	54.6	1586.6	175-225	0.0	0.0	129.3	0.0	129.3
225-275	412-503	4351.9	1739.2	8103.8	9339.5	23534.4	225-275	429.1	72.6	951.2	1019.9	2472.8	225-275	180.6	15.7	714.8	433.5	1344.7
275-350	503-640	11311.7	2269.2	22013.0	19155.4	54749.3	275-350	1702.9	193.6	1366.9	5573.8	8837.1	275-350	1150.3	97.3	1164.8	4845.8	7258.2
350-500	640-914	6084.9	4538.0	13814.0	13191.4	37628.4	350-500	816.9	315.3	1615.0	2722.5	5469.8	350-500	627.1	215.1	1431.8	2526.9	4800.9
Total						129133.6	Total					18993.5	Total					13769.5
SE 2003-2005							SE 2003-2005						SE 2003-2005					
Depth (fath)	Depth (m)	A	B	C	D	All	Depth (fath)	A	B	C	D	All	Depth (fath)	A	B	C	D	All
125-175	229-320	660.9	183.3	77.4	375.1	1155.7	125-175	336.7	12.5	0.0	147.3	382.5	125-175	168.8	3.9	0.0	0.0	135.6
175-225	320-412	5685.9	10.8	1274.7		5298.3	175-225	963.1	0.5	97.8		822.2	175-225	0.0	0.0	58.9		52.7
225-275	412-503	1538.6	884.5	1801.6	4724.9	7450.1	225-275	151.7	27.7	211.5	516.0	750.1	225-275	63.9	4.5	158.9	219.3	374.0
275-350	503-640		910.1	13219.3	6114.7	6839.3	275-350		51.8	644.3	1779.3	1646.8	275-350		18.1	549.1	1546.9	1417.3
350-500	640-914	1528.3	1148.3	2731.8	3329.5	2677.6	350-500	205.2	79.8	319.4	687.2	629.1	350-500	157.5	54.4	283.1	637.8	598.1
Total						14954.1	Total					2164.0	Total					1333.6

Appendix D4 Table 5. Numerical density as N/ha (A), and abundance in thousands (B) of reproductive size red crabs by depth and sector in 1974 and 2003-2005 (+1SE).

A.

All mature Crabs - Male + Female					
1974		2003-2005		Average 2003-2005	
Depth (ft/h)	A	B	C	D	Avg
125-175	22.1	13.2	28.4	20.2	21.0
175-225	270.8	175.2	371.9	273.2	321.3
225-275	161.8	218.2	282.3	172.2	251.5
275-350	22.6	101.1	101.1	220.7	220.7
350-500					61.8
Total					175.3

Male Crabs > 75 mm					
1974		2003-2005		Average 2003-2005	
Depth (ft/h)	A	B	C	D	Avg
125-175	13.0	13.2	22.2	0.0	12.1
175-225	41.7	52.9	181.4	111.5	111.5
225-275	54.5	62.9	118.7	107.8	83.5
275-350	149.8	202.0	141.1	164.3	164.3
350-500	16.1	93.4	93.4	54.8	54.8
Total					85.2

Female Crabs > 70 mm					
1974		2003-2005		Average 2003-2005	
Depth (ft/h)	A	B	C	D	Avg
125-175	9.0	0.0	6.2	20.2	8.9
175-225	229.1	190.5	190.5	209.8	209.8
225-275	183.8	122.2	154.5	211.5	168.0
275-350	12.0	16.2	141.1	56.4	56.4
350-500	6.4	7.7	7.7	7.1	7.1
Total					90.0

Standard Error Numerical Density (N/ha)					
Depth (ft/h)	A	B	C	D	Avg
125-175	105.8	43.4	6.1	22.0	34.4
175-225	395.6	1.7	59.2	108.7	108.7
225-275	259.2	144.0	180.3	676.9	255.1
275-350	70.6	95.3	158.6	177.2	31.0
350-500	140.5	64.1	111.7	198.0	95.1
Total					

Standard Error Numerical Density (N/ha)					
Depth (ft/h)	A	B	C	D	Avg
125-175	144.9	58.9	6.1	22.0	36.0
175-225	523.9	131.8	129.8	24.7	202.6
225-275	733.1	499.2	811.0	1338.1	846.4
275-350	973.0	451.7	1421.1	2025.4	1217.8
350-500	280.9	376.7	802.0	682.4	535.5
Total					571.8

Standard Error Numerical Density (N/ha)					
Depth (ft/h)	A	B	C	D	Avg
125-175	123.1	34.3	2.2	0.0	7.1
175-225	82.5	0.6	20.3	0.0	74.2
225-275	292.0	64.3	94.5	63.9	56.6
275-350	29.5	15.4	164.7	96.7	105.6
350-500	64.9	21.7	21.4	125.7	36.3
Total					

Standard Error Numerical Density (N/ha)					
Depth (ft/h)	A	B	C	D	Avg
125-175	128.1	97.9	56.0	6.1	22.0
175-225	149.7	84.3	65.3	22.4	48.5
225-275	487.1	276.3	655.9	1211.8	657.8
275-350	655.2	336.6	1146.9	875.8	753.7
350-500	163.7	315.7	618.8	251.5	337.4
Total					376.0

B.

All mature Crabs - Male + Female					
1974		2003-2005		Average 2003-2005	
Depth (ft/h)	A	B	C	D	All1
125-175	11894.0	5783.2	29001.5	9461.8	59377.3
175-225	65763.8	3012.9	10391.8	8461.8	27242.7
225-275	8923.7	6173.6	17970.8	6379.8	40384.6
275-350	14193.9	2956.6	6453.1	14359.1	14359.1
Total					144314.3

Male Crabs > 75 mm					
1974		2003-2005		Average 2003-2005	
Depth (ft/h)	A	B	C	D	All1
125-175	394.6	235.0	1222.4	0.0	1852.0
175-225	1824.8	2007.2	13869.3	4786.0	22257.3
225-275	1276.5	910.6	4427.6	2985.6	9470.1
275-350	7312.5	5718.2	8853.3	4748.9	26914.9
350-500	1097.0	2619.4	9951.3	3112.8	12740.3
Total					72834.8

Female Crabs > 70 mm					
1974		2003-2005		Average 2003-2005	
Depth (ft/h)	A	B	C	D	All1
125-175	3724.0	0.0	339.6	790.0	1403.6
175-225	10036.2	3775.9	14342.2	8985.6	37120.0
225-275	4300.5	2102.3	5764.2	5895.5	17772.8
275-350	2511.2	437.5	8853.3	1630.8	13434.7
350-500	422.8	337.3	467.8	400.8	1646.7
Total					71573.5

Standard Error Numerical Density (N/ha)					
Depth (ft/h)	A	B	C	D	All1
125-175	4392.9	1049.3	333.8	861.6	6637.6
175-225	22947.8	3559.4	9776.2	1581.0	37484.4
225-275	17155.9	8586.6	30249.7	35460.4	91462.5
275-350	43300.6	12783.5	88961.0	58538.2	203580.9
350-500	18429.4	18014.4	51089.5	38787.2	126320.5
Total					465856.0

Standard Error Numerical Density (N/ha)					
Depth (ft/h)	A	B	C	D	All1
125-175	1250.5	320.5	100.3	251.6	712.9
175-225	17395.8	45.3	4454.0	16467.4	16467.4
225-275	6065.4	2477.6	6724.8	17939.4	27626.4
275-350	2372.9	5342.3	11885.6	28874.3	28874.3
350-500	4638.7	4558.5	10103.4	9789.8	7815.0
Total	27110.0	7377.4	37679.2	16644.2	56554.9

Standard Error Numerical Density (N/ha)					
Depth (ft/h)	A	B	C	D	All2
125-175	1040.3	38.4	0.0	0.0	846.9
175-225	12375.5	16.3	1527.0	10511.0	10511.0
225-275	2035.3	1106.2	1286.2	1693.8	5344.5
275-350	1932.3	604.5	10307.5	10695.6	10795.2
350-500	13945.1	239.2	2307.4	6181.5	5582.5
Total		2075.5	7434.1	11336.7	18408.0

Standard Error Numerical Density (N/ha)					
Depth (ft/h)	A	B	C	D	All2
125-175	2968.1	997.1	333.8	861.6	5160.7
175-225	6556.5	2275.1	6424.7	1437.2	16693.5
225-275	11399.1	4752.8	24464.1	32112.3	72788.2
275-350	29159.0	9527.2	71796.8	25311.8	135794.8
350-500	10735.9	15097.0	39421.9	14296.2	75651.0
Total					309928.3

Appendix D4 Table 6. Biomass density in kg/ha (A), and abundance in mt (B) of reproductive size red crabs by depth and sector in 1974 and 2003-2005 (+1SE).

A.

All mature Crabs - Male + Female					
1974	Biomass Density (kg/ha)				Avg
Depth (feet)	A	B	C	D	
125-175	8.6	7.2	14.8	6.6	9.3
175-225	87.2	49.0	159.8	110.5	123.5
225-275	62.6	85.7	86.2	73.0	78.0
275-350				86.9	308.5
350-500	8.5		36.9	22.7	64.3
Total					144.1
Average 2003-2005					
Depth (feet)	A	B	C	D	Avg
125-175	37.0	13.6	1.4	7.6	14.9
175-225	167.3	27.9	33.5	6.1	58.7
225-275	167.6	104.8	204.6	334.9	203.0
275-350	241.6	108.7	278.5	605.3	135.5
350-500	70.1	80.3	199.6	192.2	135.5
Total					144.1

Male Crabs > 75 mm					
1974	Biomass Density (kg/ha)				Avg
Depth (feet)	A	B	C	D	
125-175	6.1	7.2	13.0	0.0	6.6
175-225	22.7	10.7	106.7	64.7	64.7
225-275	27.4	22.9	97.5	56.6	41.1
275-350		83.4	62.1	72.8	21.4
350-500	7.4		35.5	21.4	41.3
Total					60.1
Average 2003-2005					
Depth (feet)	A	B	C	D	Avg
125-175	16.1	1.1	0.0	2.2	4.3
175-225	122.7	11.2	12.4	6.0	36.7
225-275	60.4	51.4	50.6	39.6	50.5
275-350	87.9	28.4	72.0	400.8	147.3
350-500	33.3	16.9	64.9	132.9	62.0
Total					60.1

Female Crabs > 70 mm					
1974	Biomass Density (kg/ha)				Avg
Depth (feet)	A	B	C	D	
125-175	2.5	0.0	1.8	6.6	2.9
175-225	64.4	26.2	53.1	53.9	59.8
225-275	35.2	2.2	26.1	53.9	37.9
275-350			26.1	14.2	14.2
350-500	1.1		1.4	1.3	1.3
Total					23.0
Average 2003-2005					
Depth (feet)	A	B	C	D	Avg
125-175	20.9	12.5	1.4	7.6	10.6
175-225	44.6	16.6	21.1	5.7	22.0
225-275	107.2	53.4	154.0	295.4	152.5
275-350	153.7	80.3	206.5	204.5	161.2
350-500	36.7	63.4	134.6	59.3	73.5
Total					84.0

B.

All mature Crabs - Male + Female					
1974	Abundance (mt)				All
Depth (feet)	A	B	C	D	
125-175	260.0	128.5	815.9	258.6	1463.0
175-225	3817.6	3333.3	12031.9	27097.6	27097.6
225-275	1464.8	843.6	3503.5	2929.6	8741.6
275-350	3868.6	2424.5	5521.1	12512.4	14328.6
350-500	559.0	1086.6	2351.7	1291.3	5298.6
Total					56917.4
Average 2003-2005					
Depth (feet)	A	B	C	D	All
125-175	1121.7	242.0	76.2	296.9	1736.8
175-225	7328.0	752.0	2523.6	391.6	10995.1
225-275	30921.4	1802.3	7631.9	8876.1	22231.8
275-350	10751.5	3077.4	17432.9	17482.6	48541.5
350-500	4596.4	3839.1	12712.8	10921.4	32069.6
Total					115787.8

Male Crabs > 75 mm					
1974	Abundance (mt)				All
Depth (feet)	A	B	C	D	
125-175	184.3	128.5	716.9	0.0	1028.7
175-225	995.0	1746.5	8092.4	4146.9	14920.9
225-275	640.0	393.3	2144.7	1501.2	4679.3
275-350	3238.0	2361.8	3885.8	2102.9	11588.4
350-500	486.0	1025.7	2280.4	1218.9	4991.1
Total	5543.4	5655.8	17040.3	8989.9	37209.4
Average 2003-2005					
Depth (feet)	A	B	C	D	All
125-175	488.5	19.0	0.0	2.3	507.5
175-225	5374.3	303.5	932.7	23.8	6633.6
225-275	1412.3	883.5	1888.7	1048.7	5233.2
275-350	3913.7	803.7	4450.0	1158.1	20808.5
350-500	2186.9	808.1	4136.9	7552.6	14884.2
Total	13375.7	2817.2	11467.2	20207.1	47867.2

Female Crabs > 70 mm					
1974	Abundance (mt)				All
Depth (feet)	A	B	C	D	
125-175	75.7	0.0	99.0	258.6	433.3
175-225	2822.6	1586.8	3995.5	3787.7	12176.7
225-275	824.8	450.3	1358.8	1428.4	4082.3
275-350	630.6	62.7	1635.3	409.5	2738.2
350-500	73.0	60.9	91.3	72.3	297.4
Total	4426.7	2160.7	7183.9	5936.7	19708.0
Average 2003-2005					
Depth (feet)	A	B	C	D	All
125-175	633.2	223.0	76.2	296.9	1229.4
175-225	1953.6	449.1	1590.9	367.9	4361.5
225-275	2509.2	918.8	5743.3	7827.4	16998.6
275-350	6837.8	2273.7	12923.9	5910.5	27946.0
350-500	2409.4	3030.9	8575.9	3368.9	17385.1
Total	14343.3	6895.5	28910.2	17771.6	67920.6

Appendix D4 Table 7. Estimated biomass density in kg/ha (A), and standing biomass in mt (B) of fishable red crab by depth and sector in 1974 and 2003-2005 (+1SE).

A.

Fishable Males						
1974		Recruited Biomass density (kg/ha)				
Depth (fath)	A	B	C	D	Avg	
125-175	5.8	0.0	13.0	0.0	4.7	
175-225	22.3		103.5		62.9	
225-275	26.0	19.9	53.4	55.8	38.8	
275-350	53.3	71.9	59.2		61.5	
350-500	7.3		31.8		19.6	
					37.5	

Average 2003-2005						
Average 2003-2005		Recruited Biomass density (kg/ha)				
Depth (fath)	A	B	C	D	Avg	
125-175	13.5	1.0	0.0	0.0	2.9	
175-225	98.6	6.2	8.4	0.0	29.9	
225-275	32.7	27.2	39.5	29.6	32.7	
275-350	55.0	15.8	55.4	330.7	111.2	
350-500	22.0	11.2	55.1	95.5	45.9	
					44.5	

SE 2003-2005						
SE 2003-2005		SE Recruited Biomass density (kg/ha)				
Depth (fath)	A	B	C	D	Avg	
125-175	9.9	0.7	0.0	0.0	2.1	
175-225	74.4	0.1	3.8		19.5	
225-275	11.6	7.9	8.8	15.0	9.3	
275-350		2.9	26.1	105.6	31.3	
350-500	5.5	2.8	10.9	24.1	5.5	
	14.4	2.9	5.0	35.6	9.4	

B.

Fishable Males

1974		Recruited Biomass (mt)				
Depth (fath)	A	B	C	D	All1	
125-175	177.2	0.0	714.4	0.0	891.7	
175-225	976.0	1697.9	7793.9	4031.5	14499.3	
225-275	609.4	341.7	1991.7	1478.2	4420.9	
275-350	2372.3	2035.2	3708.6	1777.1	9893.2	
350-500	481.2	935.4	2024.6	1111.6	4552.8	
	4616.1	5010.2	16233.3	8398.4	34258.0	

Average 2003-2005		Recruited Biomass (mt)				
Depth (fath)	A	B	C	D	All1	
125-175	409.5	24.3	0.0	0.0	433.8	
175-225	4318.2	166.3	908.0	1.0	5393.5	
225-275	766.0	468.5	1474.5	1175.3	3884.3	
275-350	2448.6	446.7	3468.4	9557.7	15921.4	
350-500	1440.4	629.3	3511.7	5032.2	10613.5	
	9382.7	1735.1	9362.6	15766.1	36246.5	

SE 2003-2005		SE Recruited Biomass (mt)				
Depth (fath)	A	B	C	D	All1	
125-175	299.0	19.3	0.0	0.0	245.4	
175-225	3260.3	2.1	128.3	#DIV/0!	2714.3	
225-275	270.8	135.2	327.8	104.5	967.4	
275-350	#DIV/0!	82.9	1635.0	3051.0	2542.0	
350-500	361.8	140.0	694.5	1855.0	1564.2	
	3252.1	352.1	1736.4	4099.4	5457.6	