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ศูนย์วิทยทรัพยากร  
จุฬาลงกรณ์มหาวิทยาลัย





**APPENDIX**

ศูนย์วิทยทรัพยากร  
จุฬาลงกรณ์มหาวิทยาลัย

**Appendix 1.** Questionnaire used to interview locals fishermen for preliminary survey  
(in Thai).

ชื่อ-สกุล \_\_\_\_\_

ที่อยู่ \_\_\_\_\_

เบอร์โทรศัพท์ที่สามารถติดต่อได้ \_\_\_\_\_

ท่านเคยพบเห็นแมงกระพรุนที่ใดบ้าง?

\_\_\_\_\_

ชนิดอะไร?

\_\_\_\_\_

มีพิษหรือไม่?

\_\_\_\_\_

ในฤดู หรือ ช่วงไหนของปี?

\_\_\_\_\_

ส่วนมากท่านพบแมงกระพรุนในช่วงไหนของวัน?

\_\_\_\_\_

อากาศแบบไหน?

\_\_\_\_\_

สภาพท้องทะเลแบบใด?

\_\_\_\_\_

แมงกระพรุนที่ท่านจับได้ จับโดยวิธีใด?

\_\_\_\_\_

หากเป็นอวนลาก ขนาดตาของอวนเท่าไร?

\_\_\_\_\_

ใช้เวลาในการลากกี่ชั่วโมง?

\_\_\_\_\_

ลากที่ความลึกเท่าไร?

\_\_\_\_\_

โดยประมาณแล้วจับได้จำนวนเท่าไร?

\_\_\_\_\_

**Appendix 2.** Salinity values at Chon Buri and Phetchaburi Provinces from December 1999 to December 2000. (Unit: psu)

Month	Chon Buri								Phetchaburi							
	B1	E1	B2	E2	B3	E3	Avg.	SD	B1	E1	B2	E2	B3	E3	Avg.	SD
December 1999	28.3	29.5	27.8	29.5	27.4	29.8	<b>28.7</b>	<b>1.0</b>	26.6	26.4	25.7	26.0	25.3	25.4	<b>25.9</b>	<b>0.5</b>
January 2000	29.2	29.4	29.5	29.7	29.7	30.0	<b>29.6</b>	<b>0.3</b>	24.7	25.4	25.1	25.8	25.9	27.1	<b>25.7</b>	<b>0.8</b>
February 2000	31.7	31.5	31.3	31.5	31.4	31.6	<b>31.5</b>	<b>0.1</b>	32.2	31.9	31.8	31.9	31.6	31.7	<b>31.9</b>	<b>0.2</b>
March 2000	31.1	30.9	30.8	30.5	30.8	30.5	<b>30.8</b>	<b>0.2</b>	32.3	32.3	32.2	32.2	32.2	32.2	<b>32.2</b>	<b>0.1</b>
April 2000	27.1	28.5	28.7	28.3	29.7	29.2	<b>28.6</b>	<b>0.9</b>	27.2	27.6	27.2	27.5	27.7	27.6	<b>27.5</b>	<b>0.2</b>
May 2000	11.3	11.2	12.8	14.2	11.7	11.8	<b>12.2</b>	<b>1.1</b>	29.9	30.0	29.8	30.0	30.0	30.0	<b>30.0</b>	<b>0.1</b>
June 2000	0.3	0.3	0.3	0.3	0.3	0.3	<b>0.3</b>	<b>0.0</b>	28.6	29.2	26.8	27.4	27.2	28.1	<b>27.9</b>	<b>0.9</b>
July 2000	0.2	0.2	0.2	0.2	0.5	0.2	<b>0.3</b>	<b>0.1</b>	28.3	28.3	28.2	28.2	28.1	28.2	<b>28.2</b>	<b>0.1</b>
August 2000	9.6	10.4	11.1	12.6	12.1	13.5	<b>11.6</b>	<b>1.5</b>	29.2	27.2	26.7	26.3	25.3	26.5	<b>26.9</b>	<b>1.3</b>
September 2000	4.5	5.0	2.9	4.0	4.9	4.2	<b>4.3</b>	<b>0.8</b>	25.5	25.2	24.9	25.1	24.6	24.6	<b>25.0</b>	<b>0.4</b>
October 2000	12.4	13.5	10.8	13.7	14.9	15.5	<b>13.5</b>	<b>1.7</b>	20.4	19.0	19.6	18.7	20.4	21.1	<b>19.9</b>	<b>0.9</b>
November 2000	20.5	21.9	22.9	19.1	24.2	17.0	<b>20.9</b>	<b>2.6</b>	21.7	23.0	22.4	23.4	22.5	22.9	<b>22.7</b>	<b>0.6</b>
December 2000	29.5	29.1	29.5	29.3	29.4	29.4	<b>29.4</b>	<b>0.2</b>	25.7	26.7	23.5	25.9	22.4	23.6	<b>24.6</b>	<b>1.7</b>

**Appendix 3.** pH values at Chon Buri and Phetchaburi Provinces from December 1999 to December 2000.

Month	Chon Buri								Phetchaburi							
	B1	E1	B2	E2	B3	E3	Avg.	SD	B1	E1	B2	E2	B3	E3	Avg.	SD
December 1999	7.91	7.76	7.53	7.75	7.77	7.71	<b>7.74</b>	<b>0.12</b>	7.47	7.67	7.50	7.54	7.50	7.42	<b>7.52</b>	<b>0.09</b>
January 2000	7.53	7.28	7.27	7.30	7.20	7.32	<b>7.32</b>	<b>0.11</b>	7.91	7.70	7.81	7.97	7.70	7.68	<b>7.80</b>	<b>0.12</b>
February 2000	7.79	7.83	7.93	7.78	7.75	8.07	<b>7.86</b>	<b>0.12</b>	7.94	7.70	7.57	7.77	7.63		<b>7.72</b>	<b>0.14</b>
March 2000	8.09	8.07	8.05	8.07	8.04	8.05	<b>8.06</b>	<b>0.02</b>	8.43	8.35	8.35	8.37	8.34	8.31	<b>8.36</b>	<b>0.04</b>
April 2000	7.48	7.62	7.72	7.66	7.65	7.66	<b>7.63</b>	<b>0.08</b>	8.37	8.34	8.37	8.37	8.36	8.30	<b>8.35</b>	<b>0.03</b>
May 2000	7.92	7.94	8.11	7.99	8.14	8.06	<b>8.03</b>	<b>0.09</b>	8.02	8.08	8.11	8.04	8.10	8.19	<b>8.09</b>	<b>0.06</b>
June 2000	6.90	6.91	6.94	6.94	7.12	6.97	<b>6.96</b>	<b>0.08</b>	8.21	8.16	8.45	8.33	8.38	8.31	<b>8.31</b>	<b>0.11</b>
July 2000	7.31	7.18	7.28	7.15	7.33	7.34	<b>7.27</b>	<b>0.08</b>	8.51	8.54	8.58	8.67	8.71	8.53	<b>8.59</b>	<b>0.08</b>
August 2000	8.07	8.14	8.24	8.19	8.25	8.25	<b>8.19</b>	<b>0.07</b>	8.00	8.29	8.40	8.44	8.50	8.48	<b>8.35</b>	<b>0.19</b>
September 2000	7.58	7.62	7.58	7.81	7.50	7.62	<b>7.62</b>	<b>0.10</b>	7.75	7.68	7.79	7.60	7.66	7.69	<b>7.70</b>	<b>0.07</b>
October 2000	7.77	7.83	7.44	7.80	7.77	7.82	<b>7.74</b>	<b>0.15</b>	8.60	8.38	8.46	8.29	8.65	8.78	<b>8.53</b>	<b>0.18</b>
November 2000	7.09	7.10	7.23	7.24	7.33	7.24	<b>7.21</b>	<b>0.09</b>	7.63	7.63	7.69	7.70	7.73	7.71	<b>7.68</b>	<b>0.04</b>
December 2000	8.17	8.30	8.37	8.38	8.34	8.30	<b>8.31</b>	<b>0.08</b>	8.20	8.26	8.21	8.23	8.15	8.19	<b>8.21</b>	<b>0.04</b>

**Note :** B1, B2, B3 = Beginning of sampling line no.1, 2, and 3

E1, E2, E3 = End of sampling line no. 1, 2, and 3



**Appendix 4.** Dissolved oxygen concentration at Chon Buri and Phetchaburi Provinces from December 1999 to December 2000. (Unit: mg/l)

Month	Chon Buri								Phetchaburi							
	B1	E1	B2	E2	B3	E3	Avg.	SD	B1	E1	B2	E2	B3	E3	Avg.	SD
December 1999																
January 2000																
February 2000	5.87	5.93	5.74	6.20	5.52	6.63	<b>5.98</b>	<b>0.39</b>	5.56	4.92	5.12	4.82	4.89	4.92	<b>5.04</b>	<b>0.27</b>
March 2000	4.62	4.85	4.86	4.80	4.78	5.05	<b>4.83</b>	<b>0.14</b>	5.20	5.12	5.30	5.10	5.11	5.11	<b>5.16</b>	<b>0.08</b>
April 2000	0.77	5.00	3.40	5.20	5.50	5.30	<b>4.20</b>	<b>1.84</b>	5.80	5.80	5.50	5.80	5.50	4.90	<b>5.55</b>	<b>0.35</b>
May 2000	4.70	4.68	5.20	4.47	6.62	5.45	<b>5.19</b>	<b>0.79</b>	5.55	5.45	5.57	5.48	5.26	5.75	<b>5.51</b>	<b>0.16</b>
June 2000	4.79	4.64	4.86	4.60	5.35	4.69	<b>4.82</b>	<b>0.28</b>	5.52	5.45	6.93	6.74	7.33	6.86	<b>6.47</b>	<b>0.79</b>
July 2000	3.26	3.72	3.57	3.95	4.13	3.88	<b>3.75</b>	<b>0.31</b>	3.36	4.07	4.44	4.37	4.21	4.35	<b>4.13</b>	<b>0.40</b>
August 2000	6.47	6.07	6.77	6.06	6.28	5.60	<b>6.21</b>	<b>0.40</b>	2.40	4.48	4.45	6.00	6.40	5.50	<b>4.87</b>	<b>1.45</b>
September 2000	2.90	2.71	2.70	2.45	2.77	2.69	<b>2.70</b>	<b>0.15</b>	2.70	2.46	2.69	2.35	2.86	2.65	<b>2.62</b>	<b>0.18</b>
October 2000	5.38	4.97	5.24	4.85	4.55	4.35	<b>4.89</b>	<b>0.39</b>	8.33	7.25	7.71	7.35	8.14	8.73	<b>7.92</b>	<b>0.58</b>
November 2000	4.25	4.40	4.64	4.46	4.69	4.56	<b>4.50</b>	<b>0.16</b>	6.74	5.88	6.73	6.53	6.88	6.68	<b>6.57</b>	<b>0.36</b>
December 2000	7.64	7.67	7.97	8.07	7.62	7.25	<b>7.70</b>	<b>0.29</b>	7.02	6.41	6.74	6.44	7.04	7.12	<b>6.80</b>	<b>0.31</b>

**Appendix 5.** Temperature at Chon Buri and Phetchaburi Provinces from December 1999 to December 2000. (Unit: °C)

Month	Chon Buri								Phetchaburi							
	B1	E1	B2	E2	B3	E3	Avg.	SD	B1	E1	B2	E2	B3	E3	Avg.	SD
December 1999	22.5	23.1	22.8	23.0	22.8	23.2	<b>22.9</b>	<b>0.3</b>	23.5	23.6	23.5	23.6	23.5	23.6	<b>23.6</b>	<b>0.1</b>
January 2000	26.5	26.6	26.6	26.8	26.7	26.9	<b>26.7</b>	<b>0.1</b>	27.1	27.3	27.3	27.2	27.3	27.3	<b>27.3</b>	<b>0.1</b>
February 2000	27.8	28.7	28.0	28.2	27.9	28.3	<b>28.2</b>	<b>0.3</b>	28.6	29.1	28.8	28.9	28.6	28.7	<b>28.8</b>	<b>0.2</b>
March 2000	29.3	29.5	29.6	29.4	29.6	29.7	<b>29.5</b>	<b>0.1</b>	29.3	29.4	29.5	29.4	29.6	29.6	<b>29.5</b>	<b>0.1</b>
April 2000	31.0	30.9	30.2	30.8	30.4	30.4	<b>30.6</b>	<b>0.3</b>	29.6	29.8	29.8	29.7	29.9	30.7	<b>29.9</b>	<b>0.4</b>
May 2000	31.3	31.3	31.2	31.2	31.2	31.1	<b>31.2</b>	<b>0.1</b>	29.7	29.8	30.0	29.8	29.8	29.8	<b>29.8</b>	<b>0.1</b>
June 2000	31.7	31.5	31.5	31.7	31.4	31.5	<b>31.6</b>	<b>0.1</b>	30.6	30.7	30.8	31.1	31.3	31.4	<b>31.0</b>	<b>0.3</b>
July 2000	29.0	29.1	29.5	29.1	29.7	29.4	<b>29.3</b>	<b>0.3</b>	29.9	29.9	29.8	29.9	29.9	29.8	<b>29.9</b>	<b>0.1</b>
August 2000	30.0	29.7	29.5	29.7	29.6	29.7	<b>29.7</b>	<b>0.2</b>	30.9	31.4	31.6	31.7	32.0	31.7	<b>31.6</b>	<b>0.4</b>
September 2000	29.4	29.3	29.3	29.3	29.3	29.4	<b>29.3</b>	<b>0.1</b>	29.7	29.7	29.7	29.7	29.9	29.7	<b>29.7</b>	<b>0.1</b>
October 2000	29.3	29.3	29.3	29.4	29.6	29.7	<b>29.4</b>	<b>0.2</b>	29.1	29.0	28.9	29.0	29.0	29.3	<b>29.1</b>	<b>0.1</b>
November 2000	29.0	28.8	29.0	28.5	29.2	28.9	<b>28.9</b>	<b>0.2</b>	28.2	28.3	28.1	28.4	28.1	28.3	<b>28.2</b>	<b>0.1</b>
December 2000	27.3	27.4	27.5	27.4	27.5	27.5	<b>27.4</b>	<b>0.1</b>	27.5	27.7	27.5	27.7	27.3	27.5	<b>27.5</b>	<b>0.2</b>

**Appendix 6. Zooplankton concentration at Chon Buri and Phetchaburi Provinces  
from December 1999 to December 2000. (Unit: individuals · 10<sup>2</sup> m<sup>-3</sup>)**

**Month: December 1999**

Phyla	Taxa	Chon Buri						Phetchaburi					
		B1	E1	B2	E2	B3	E3	B1	E1	B2	E2	B3	E3
Protozoa	Foraminiferans	0	0	0	0	0	0	128443	798	312	485	0	0
Cnidaria	Hydromedusae	559	0	2078	264	4517	3795	1647	798	935	3394	3055	1364
	Scyphozoan Larvae	0	0	0	0	0	0	0	0	0	0	0	0
Ctenophora	Ctenophores	909	0	10390	882	807	1897	0	0	0	0	0	0
Chaetognatha	Chaetognaths	6294	0	14546	1146	7663	6641	17290	1730	1870	5333	6109	2273
Annelida	Polychaetes	699	0	0	88	1613	3320	0	266	935	0	436	0
Arthropoda	Barnacle Larvae	6644	0	47794	4143	71385	36523	9880	133	1558	2909	436	3636
	Ostracods	0	0	2078	176	1855	1423	823	1197	1247	0	0	0
	Cladocerans	490	0	0	0	484	949	823	0	0	0	0	0
	Copepods	173572	0	721060	57126	364427	160321	89745	35389	112523	29092	104730	14546
	Isopods	0	0	0	0	0	0	0	0	0	0	0	0
	Amphipods	70	0	0	0	81	474	0	798	1247	0	2618	0
	Lucifers & Larvae	39861	0	89353	23714	72353	43638	5763	665	623	0	436	2273
	Shrimps & Larvae	699	0	0	0	161	474	823	2794	4675	2424	2182	2273
	Crabs & Larvae	2587	0	22858	3350	1210	2846	823	798	623	4364	1746	3636
Mollusca	Gastropods	140	0	0	176	1855	0	0	133	312	970	0	0
	Bivalves	0	0	0	0	0	0	1647	798	1247	0	0	0
Urochordata	Larvaceans	2448	0	68573	2733	1452	12332	0	0	0	0	0	0
Chordata	Fish Larvae & Juvenile	70	0	2078	176	1049	474	823	0	312	0	436	0
	Eggs	0	0	10390	4055	7179	1423	12350	0	2182	2909	3491	3636
	Others	0	0	10390	88	0	949	1647	1730	8416	3394	3491	455
	<b>Total</b>	<b>235042</b>	<b>0</b>	<b>1001588</b>	<b>98119</b>	<b>538090</b>	<b>277479</b>	<b>272529</b>	<b>48028</b>	<b>139017</b>	<b>55274</b>	<b>129167</b>	<b>34092</b>

**Month: January 2000**

Phyla	Taxa	Chon Buri						Phetchaburi					
		B1	E1	B2	E2	B3	E3	B1	E1	B2	E2	B3	E3
Protozoa	Foraminiferans	0	2046	0	4426	0	6675	9160	1169	902	6749	11902	955
Cnidaria	Hydromedusae	1699	3273	5681	1897	5453	8246	2893	1558	5410	1446	6492	955
	Scyphozoan Larvae	0	0	0	0	0	0	0	0	0	0	0	0
Ctenophora	Ctenophores	0	1227	271	0	0	393	0	0	902	482	541	0
Chaetognatha	Chaetognaths	2831	4910	2435	3794	2337	2749	3375	3895	13074	2410	15148	10025
Annelida	Polychaetes	566	6956	1082	11066	1948	9817	482	1948	2254	2410	7574	1432
Arthropoda	Barnacle Larvae	6228	12275	20288	20235	52196	61649	29407	80242	334523	43388	50314	26255
	Ostracods	0	0	0	1265	390	0	1446	0	1353	3857	1082	2387
	Cladocerans	0	2046	541	316	1948	9817	4821	9738	71233	6267	7033	127933
	Copepods	303468	674305	427396	322497	262930	244632	101720	170223	220912	98346	789331	87357
	Isopods	0	409	0	2529	1558	785	0	0	0	1446	541	477
	Amphipods	0	1637	0	2529	2337	0	0	0	0	964	1082	0
	Lucifers & Larvae	2265	13912	1082	11382	1558	9424	7231	21034	18034	9642	79528	17662
	Shrimps & Larvae	1132	1227	812	1897	2337	393	0	1169	4508	2410	10279	2387
	Crabs & Larvae	7360	13912	22181	3794	52196	7461	1446	6622	46887	12052	18935	4774
Mollusca	Gastropods	1132	2864	812	11066	5453	3141	482	1948	2254	0	2164	0
	Bivalves	0	2046	0	4743	3895	3141	0	779	0	964	541	2864
Urochordata	Larvaceans	1132	3682	3517	2213	5843	15707	11088	3116	15779	5785	6492	17185
Chordata	Fish Larvae & Juvenile	566	1227	541	1897	2337	1178	0	390	451	0	0	477
	Eggs	30573	25368	13255	25294	37394	27487	43870	14412	25698	14945	13525	8592
	Others	2265	26187	0	110661	146462	14529	4821	6232	13525	4821	9197	85925
	<b>Total</b>	<b>361217</b>	<b>799510</b>	<b>499891</b>	<b>543502</b>	<b>588574</b>	<b>427222</b>	<b>222242</b>	<b>324475</b>	<b>777699</b>	<b>218385</b>	<b>1031702</b>	<b>397641</b>



**Appendix 6. (Cont.)**  
**Month: February 2000**

Phyla	Taxa	Chon Buri						Phetchaburi					
		B1	E1	B2	E2	B3	E3	B1	E1	B2	E2	B3	E3
Protozoa	Foraminiferans	0	439	10254	1680	0	887	0	0	572	718	1645	0
Cnidaria	Hydromedusae	27674	22809	18456	28977	5408	19960	2322	637	1716	718	3290	3153
	Scyphozoan Larvae	0	0	513	0	0	0	0	0	0	0	0	0
Ctenophora	Ctenophores	8139	6141	3589	8819	4867	1774	3870	1910	572	2871	2741	631
Chaetognatha	Chaetognaths	4070	6579	4101	5879	5948	887	20125	7004	11442	2871	13159	8829
Annelida	Polychaetes	9767	12282	9741	17218	2163	4436	6192	3820	0	718	0	0
Arthropoda	Barnacle Larvae	520110	311424	156880	210400	140600	207140	5418	2547	2861	7178	3838	4414
	Ostracods	9767	6579	14355	13439	3785	2218	0	0	0	0	0	0
	Cladocerans	1628	1316	0	0	0	3992	6192	0	0	0	0	0
	Copepods	78953	109656	272745	198641	57322	19960	73534	54757	24601	38759	25769	41620
	Isopods	0	439	513	2940	1082	887	0	0	0	0	0	0
	Amphipods	0	0	513	840	0	0	774	0	572	0	548	0
	Lucifers & Larvae	32558	25440	10254	9659	18927	19960	27092	10187	4005	9331	10417	6306
	Shrimps & Larvae	1221	3509	5127	4620	1082	3105	4644	637	572	2871	2741	3784
	Crabs & Larvae	15465	19738	33837	17218	21090	17742	31736	47117	51491	25839	25769	180986
	Mollusca	Gastropods	20349	16229	12304	19318	2704	3548	2322	637	572	718	548
	Bivalves	4477	3070	3076	12599	1622	3105	1548	0	0	2153	548	0
Urochordata	Larvaceans	32151	7457	11792	6299	6489	6653	0	1273	1716	718	10417	10090
Chordata	Fish Larvae & Juvenile	4070	3948	3589	5879	0	3548	0	0	572	0	548	0
	Eggs	40697	12282	13330	31077	5948	6210	3096	637	1716	2153	13707	1892
	Others	1221	3070	11279	19318	4326	9758	6192	3184	1144	718	1645	3784
	<b>Total</b>	<b>812316</b>	<b>572406</b>	<b>596246</b>	<b>614822</b>	<b>283364</b>	<b>335770</b>	<b>195059</b>	<b>134347</b>	<b>104126</b>	<b>98332</b>	<b>117332</b>	<b>265488</b>

**Month: March 2000**

Phyla	Taxa	Chon Buri						Phetchaburi					
		B1	E1	B2	E2	B3	E3	B1	E1	B2	E2	B3	E3
Protozoa	Foraminiferans	0	0	1254	3424	0	782	1198	666	0	734	2054	1240
Cnidaria	Hydromedusae	46874	17285	20902	12840	17681	42986	0	1332	0	2935	3082	0
	Scyphozoan Larvae	455	0	0	0	0	0	0	0	0	0	0	0
Ctenophora	Ctenophores	455	1383	418	1284	589	391	0	0	0	0	0	0
Chaetognatha	Chaetognaths	6371	4840	2508	2140	2358	4299	63515	18642	23320	17609	15408	5372
Annelida	Polychaetes	1820	1383	1254	856	589	782	4794	1997	972	2201	4109	0
Arthropoda	Barnacle Larvae	267136	164895	145480	93732	116696	73467	11984	1332	8259	5870	4109	6199
	Ostracods	455	346	836	3852	2947	391	0	3329	486	2935	1027	0
	Cladocerans	0	0	0	0	0	0	0	666	0	734	0	413
	Copepods	213891	199464	120397	125404	101373	121533	59920	17310	22348	31550	48278	6199
	Isopods	0	0	0	0	589	0	0	0	0	0	0	0
	Amphipods	455	0	418	428	1179	0	0	666	0	0	0	0
	Lucifers & Larvae	28215	15210	28427	7704	12377	23056	9587	5326	5344	2201	3082	5785
	Shrimps & Larvae	1820	1037	836	2568	2358	2345	21571	6658	6316	16142	14381	2479
	Crabs & Larvae	17748	5877	7525	2996	7662	3908	139014	14647	47612	99785	72931	94632
	Mollusca	Gastropods	455	691	2508	1284	589	5080	0	0	486	1467	1027
	Bivalves	0	1383	1672	1712	589	391	0	3329	0	2935	1027	0
Urochordata	Larvaceans	3186	691	3344	1284	7073	0	3595	0	486	0	0	413
Chordata	Fish Larvae & Juvenile	0	0	836	428	0	0	1198	0	486	734	0	826
	Eggs	135161	151413	57690	66340	94889	42204	1198	0	486	734	16435	413
	Others	910	3457	3762	2996	1768	782	26365	2663	0	0	0	413
	<b>Total</b>	<b>725409</b>	<b>569353</b>	<b>400069</b>	<b>331271</b>	<b>371306</b>	<b>322395</b>	<b>343940</b>	<b>78562</b>	<b>116601</b>	<b>188564</b>	<b>186950</b>	<b>124798</b>

**Appendix 6. (Cont.)**  
**Month: April 2000**

Phyla	Taxa	Chon Buri						Phetchaburi					
		B1	E1	B2	E2	B3	E3	B1	E1	B2	E2	B3	E3
Protozoa	Foraminiferans	0	0	3606	0	1055	0	0	4431	795	4381	0	9278
Cnidaria	Hydromedusae	2377	728	1202	3231	3165	2651	0	738	0	876	0	663
	Scyphozoan Larvae	0	0	0	0	0	0	0	0	0	0	0	0
Ctenophora	Ctenophores	17825	10193	0	19384	4220	18556	10769	0	2386	7009	5084	1988
Chaetognatha	Chaetognaths	7130	1456	1202	5654	7384	3976	1077	5169	0	5257	2542	0
Annelida	Polychaetes	0	0	0	0	0	0	0	0	0	876	0	0
Arthropoda	Barnacle Larvae	0	728	4809	0	3165	1325	3231	0	0	0	0	0
	Ostracods	0	0	19234	0	1055	3976	0	3692	795	6133	1695	663
	Cladocerans	0	0	0	0	0	0	0	0	0	0	0	0
	Copepods	78428	73533	152670	225342	265842	202789	119536	446023	14315	45559	86435	21207
	Isopods	0	0	0	0	0	0	0	0	0	0	0	0
	Amphipods	0	0	2404	0	0	0	0	0	0	0	0	0
	Lucifers & Larvae	4159	728	0	0	1055	1325	0	738	2386	4381	5084	0
	Shrimps & Larvae	594	0	3606	3231	3165	6627	1077	2215	2386	1752	4237	2651
	Crabs & Larvae	29114	45139	1202	14538	12659	23858	219689	34707	105769	84108	110162	55005
Mollusca	Gastropods	0	0	0	808	1055	0	0	738	0	0	1695	0
	Bivalves	594	0	6011	0	1055	2651	2154	2215	0	876	847	0
Urochordata	Larvaceans	0	728	0	0	0	0	0	0	0	1752	5932	0
Chordata	Fish Larvae & Juvenile	0	0	0	0	1055	0	2154	0	795	4381	0	0
	Eggs	14260	16017	3606	18577	10549	79525	1077	0	0	0	1695	0
	Others	1188	0	1202	0	1055	1325	0	738	0	0	0	663
	<b>Total</b>	<b>155668</b>	<b>149250</b>	<b>200755</b>	<b>290764</b>	<b>317533</b>	<b>348586</b>	<b>360763</b>	<b>501407</b>	<b>129626</b>	<b>167340</b>	<b>225409</b>	<b>92117</b>

**Month: May 2000**

Phyla	Taxa	Chon Buri						Phetchaburi					
		B1	E1	B2	E2	B3	E3	B1	E1	B2	E2	B3	E3
Protozoa	Foraminiferans	0	24857	14755	2423	1122	0	37160	49546	44951	1858	50166	9058
Cnidaria	Hydromedusae	77551	9039	9836	10906	6360	1161	0	0	1798	0	2787	3484
	Scyphozoan Larvae	0	0	0	0	0	0	0	0	0	0	0	0
Ctenophora	Ctenophores	9694	18078	8197	32717	13841	4645	6193	2064	5394	13935	30657	9754
Chaetognatha	Chaetognaths	2423	4519	0	2423	0	0	35095	9290	32365	131917	139349	72461
Annelida	Polychaetes	0	0	0	1212	0	0	4129	13419	5394	6503	4180	4877
Arthropoda	Barnacle Larvae	0	0	0	1212	0	0	51611	31999	66528	25083	37624	94061
	Ostracods	2423	753	0	0	0	0	0	46450	0	0	1393	4180
	Cladocerans	0	0	0	0	0	0	0	0	0	0	0	0
	Copepods	145408	763783	278698	140561	29553	91738	187863	1119952	363206	1448300	433375	1005402
	Isopods	0	0	0	0	0	0	0	0	0	0	0	0
	Amphipods	0	0	0	0	0	3484	0	2064	0	929	0	697
	Lucifers & Larvae	21811	13558	16394	18176	7108	11612	2064	5161	41355	34373	30657	50862
	Shrimps & Larvae	4847	753	8197	2423	0	0	2064	17548	5394	16722	8361	25083
	Crabs & Larvae	16964	3013	9836	4847	1496	2322	12387	8258	7192	1858	12541	41108
Mollusca	Gastropods	26658	6779	0	0	0	0	4129	3097	5394	4645	0	0
	Bivalves	4847	0	1639	0	374	0	2064	20644	3596	1858	2787	2090
Urochordata	Larvaceans	0	0	0	0	0	0	10322	0	3596	0	1393	10451
Chordata	Fish Larvae & Juvenile	0	2260	1639	2423	1870	2322	0	4129	0	2787	0	0
	Eggs	0	6026	1639	3635	4863	1161	8258	4129	10788	21367	15328	70371
	Others	0	6026	1639	0	0	0	4129	12387	19779	4645	2787	349069
	<b>Total</b>	<b>312626</b>	<b>859444</b>	<b>352471</b>	<b>222958</b>	<b>66588</b>	<b>118447</b>	<b>367468</b>	<b>1350136</b>	<b>616731</b>	<b>1716778</b>	<b>773386</b>	<b>1753009</b>



**Appendix 6. (Cont.)**  
**Month: June 2000**

Phyla	Taxa	Chon Buri						Phetchaburi					
		B1	E1	B2	E2	B3	E3	B1	E1	B2	E2	B3	E3
Protozoa	Foraminiferans	0	0	0	0	0	0	2372	17695	29447	58925	12387	3097
Cnidaria	Hydromedusae	0	0	0	0	0	0	8302	4424	0	796	0	0
	Scyphozoan Larvae	0	0	0	0	0	0	0	0	0	0	0	0
Ctenophora	Ctenophores	0	0	0	0	0	0	42694	34505	1052	796	0	0
Chaetognatha	Chaetognaths	0	0	0	0	0	0	0	885	11569	796	688	0
Annelida	Polychaetes	0	0	899	0	2488	0	3558	1770	0	0	688	0
Arthropoda	Barnacle Larvae	0	0	0	0	0	0	20161	18580	29447	9555	6193	0
	Ostracods	1664	20740	11687	4233	2986	2787	4744	1770	3155	2389	1376	619
	Cladocerans	21630	40184	24274	15522	25879	36231	0	0	0	0	0	0
	Copepods	41597	642949	512444	133352	1669698	314929	17789	35390	10517	40610	28214	3716
	Isopods	0	0	0	0	0	0	0	0	0	0	0	0
	Amphipods	1664	9074	14384	1411	9953	5574	0	885	1052	0	0	0
	Lucifers & Larvae	0	0	0	0	0	0	3558	0	1052	796	688	0
	Shrimps & Larvae	0	0	0	706	0	0	0	1770	5258	796	688	0
	Crabs & Larvae	832	3889	4495	10583	3981	6503	35578	7078	0	796	9634	619
Mollusca	Gastropods	4160	23333	22476	5645	6967	1858	0	0	0	0	688	0
	Bivalves	1664	40184	22476	2117	4977	7432	8302	4424	5258	3185	4817	1858
Urochordata	Larvaceans	0	0	899	0	0	0	0	0	0	796	2064	0
Chordata	Fish Larvae & Juvenile	0	3889	2697	2117	995	7432	0	885	6310	0	0	0
	Eggs	832	0	0	706	0	0	3558	3539	0	0	0	0
	Others	832	22037	17981	1411	8958	5574	1186	885	2103	0	688	0
	<b>Total</b>	<b>74874</b>	<b>806279</b>	<b>634712</b>	<b>177802</b>	<b>1736885</b>	<b>388319</b>	<b>151801</b>	<b>134483</b>	<b>106221</b>	<b>120238</b>	<b>68814</b>	<b>9909</b>

**Month: July 2000**

Phyla	Taxa	Chon Buri						Phetchaburi					
		B1	E1	B2	E2	B3	E3	B1	E1	B2	E2	B3	E3
Protozoa	Foraminiferans	0	0	0	0	0	0	19038	9406	21383	8230	18998	4688
Cnidaria	Hydromedusae	0	0	0	0	0	0	2644	4389	12380	7681	5896	5540
	Scyphozoan Larvae	655	0	0	0	0	0	0	627	0	549	0	852
Ctenophora	Ctenophores	0	0	0	0	0	0	1586	1881	0	0	655	1705
Chaetognatha	Chaetognaths	0	0	0	0	0	0	2115	3762	1125	1097	4586	5114
Annelida	Polychaetes	0	0	0	3304	0	0	0	627	1125	1097	1310	426
Arthropoda	Barnacle Larvae	1310	0	1071	0	0	0	43364	5016	5627	2743	5896	6818
	Ostracods	0	10814	2141	2832	3990	1330	1058	627	3376	3292	6551	1278
	Cladocerans	2620	5089	5353	2832	4988	4655	0	0	0	0	0	0
	Copepods	91716	57251	186275	58523	53868	117046	124274	238900	129426	440022	254838	282531
	Isopods	0	0	0	0	0	0	0	0	0	0	0	0
	Amphipods	2620	1908	1071	1416	0	665	0	0	0	0	0	0
	Lucifers & Larvae	655	0	0	0	0	0	7932	15049	10129	31822	17033	18750
	Shrimps & Larvae	0	1272	0	472	1995	0	1058	2508	0	0	655	852
	Crabs & Larvae	2620	25445	7494	4720	4988	6650	1058	4389	5627	2743	7861	2983
Mollusca	Gastropods	3931	19720	19270	5664	5985	8645	2644	1254	0	3292	1965	852
	Bivalves	0	636	1071	472	1995	0	529	2508	3376	2743	5896	1705
Urochordata	Larvaceans	0	0	0	0	0	0	0	0	0	0	655	0
Chordata	Fish Larvae & Juvenile	0	0	0	1416	0	665	529	0	0	0	0	852
	Eggs	0	0	0	0	0	0	1586	1254	0	0	0	0
	Others	1310	3817	2141	472	1995	665	3173	627	9004	37857	16378	2557
	<b>Total</b>	<b>107438</b>	<b>125952</b>	<b>225885</b>	<b>82121</b>	<b>79804</b>	<b>140323</b>	<b>212587</b>	<b>292825</b>	<b>202580</b>	<b>543169</b>	<b>349174</b>	<b>337503</b>



**Appendix 6. (Cont.)**  
**Month: August 2000**

Phyla	Taxa	Chon Buri						Phetchaburi					
		B1	E1	B2	E2	B3	E3	B1	E1	B2	E2	B3	E3
Protozoa	Foraminiferans	0	0	0	0	0	0	0	2552	4209	593	5434	6096
Cnidaria	Hydromedusae	424	0	0	410	0	0	686	510	0	0	0	1829
	Scyphozoan Larvae	0	0	0	0	0	0	0	0	0	0	0	0
Ctenophora	Ctenophores	0	363	0	0	0	0	1372	0	601	593	0	0
Chaetognatha	Chaetognaths	0	725	0	820	2232	1488	686	2042	0	0	0	1219
Annelida	Polychaetes	0	0	0	0	0	0	0	0	601	0	0	0
Arthropoda	Barnacle Larvae	424	0	542	0	744	744	0	0	601	0	418	0
	Ostracods	424	1088	0	410	1860	0	0	0	0	0	418	0
	Cladocerans	0	0	0	0	0	0	0	0	0	0	0	0
	Copepods	368042	488983	68819	455333	143580	146184	35663	76046	190601	160148	5852	37796
	Isopods	0	0	0	0	0	0	0	0	0	0	0	0
	Amphipods	0	0	271	410	1488	0	0	0	1203	0	0	0
	Lucifers & Larvae	11435	7618	7586	6563	1488	1488	1372	5614	601	11270	836	1219
	Shrimps & Larvae	0	0	0	0	372	744	0	510	601	1779	0	0
	Crabs & Larvae	19482	5078	0	8204	372	1860	4115	510	1203	593	0	610
Mollusca	Gastropods	0	0	0	0	372	372	0	0	0	0	0	0
	Bivalves	1271	5441	271	3692	6323	1860	0	510	7215	593	0	1219
Urochordata	Larvaceans	0	0	0	0	0	0	0	0	0	0	0	
Chordata	Fish Larvae & Juvenile	2541	363	0	410	0	372	0	0	0	0	418	0
	Eggs	3388	1451	1626	410	3348	3720	0	0	0	0	0	0
	Others	0	0	0	0	0	0	0	510	0	593	0	0
	<b>Total</b>		<b>407430</b>	<b>511111</b>	<b>79115</b>	<b>476664</b>	<b>162179</b>	<b>158831</b>	<b>43892</b>	<b>88806</b>	<b>207437</b>	<b>176163</b>	<b>13377</b>

**Month: September 2000**

Phyla	Taxa	Chon Buri						Phetchaburi					
		B1	E1	B2	E2	B3	E3	B1	E1	B2	E2	B3	E3
Protozoa	Foraminiferans	0	0	0	0	0	0	940	5361	5477	5477	15462	1248
Cnidaria	Hydromedusae	0	0	0	0	0	0	705	2011	2054	0	910	0
	Scyphozoan Larvae	0	0	0	0	0	0	0	0	0	0	0	0
Ctenophora	Ctenophores	0	0	0	0	0	0	2114	6702	0	0	0	0
Chaetognatha	Chaetognaths	0	0	1158	0	0	0	352	0	0	0	0	0
Annelida	Polychaetes	0	0	579	0	568	0	235	670	0	0	0	2497
Arthropoda	Barnacle Larvae	0	0	0	0	0	0	8223	9382	4792	2738	0	11235
	Ostracods	1540	29089	55563	30449	27854	21037	0	0	0	0	0	3745
	Cladocerans	0	0	0	0	0	0	0	0	0	0	0	0
	Copepods	347596	386387	1135569	860182	561625	308918	11394	65676	30806	23960	50023	74901
	Isopods	513	0	0	0	0	0	0	0	0	0	0	0
	Amphipods	0	14819	579	11764	2274	40968	117	670	0	0	0	0
	Lucifers & Larvae	3081	4940	8103	2076	17053	7197	117	0	0	0	0	0
	Shrimps & Larvae	513	0	579	692	1137	554	352	9382	1369	685	1819	1248
	Crabs & Larvae	3594	4940	2315	8996	3979	2214	587	29487	4792	6846	5457	3745
Mollusca	Gastropods	0	0	0	0	0	0	0	0	0	0	0	0
	Bivalves	0	4940	11576	13148	3411	17162	117	670	1369	2054	4548	14980
Urochordata	Larvaceans	0	0	0	0	0	0	2011	6161	2054	2729	1248	
Chordata	Fish Larvae & Juvenile	1027	549	579	3460	2842	1661	117	2011	1369	1369	910	1248
	Eggs	1027	2195	579	0	0	0	0	670	2054	0	910	16229
	Others	1027	2744	5788	5536	3979	5536	0	0	0	685	910	2497
	<b>Total</b>		<b>359918</b>	<b>450601</b>	<b>1222965</b>	<b>936305</b>	<b>624722</b>	<b>405248</b>	<b>25372</b>	<b>134704</b>	<b>60243</b>	<b>45867</b>	<b>83675</b>

**Appendix 6. (Cont.)**  
**Month: October 2000**

Phyla	Taxa	Chon Buri						Phetchaburi					
		B1	E1	B2	E2	B3	E3	B1	E1	B2	E2	B3	E3
Protozoa	Foraminiferans	0	535	539	0	2558	23176	2046	15163	2312	57821	415	4363
Cnidaria	Hydromedusae	0	535	0	0	0	464	230689	88013	143328	1644276	307462	674496
	Scyphozoan Larvae	0	0	0	0	0	0	0	0	0	0	0	0
Ctenophora	Ctenophores	520	0	539	1262	512	1391	89514	6263	63188	10841	65144	169279
Chaetognatha	Chaetognaths	0	0	0	631	0	0	0	0	0	0	415	8726
Annelida	Polychaetes	0	0	0	0	2046	464	2558	659	1541	3614	2904	129140
Arthropoda	Barnacle Larvae	1041	535	539	0	1023	464	126342	36260	73205	607117	154353	383058
	Ostracods	520	1604	0	12624	0	0	6650	4285	3082	28910	3734	34903
	Cladocerans	0	0	0	0	0	0	6138	330	1541	18069	7469	13961
	Copepods	17176	54524	8631	71328	9207	6026	306392	206023	416114	1409379	384639	1838505
	Isopods	0	0	0	0	0	0	0	0	0	0	0	0
	Amphipods	0	2673	0	0	0	0	0	0	0	0	0	0
	Lucifers & Larvae	2082	2138	3236	631	512	2318	3069	330	1541	0	830	2618
	Shrimps & Larvae	0	0	0	1894	0	0	3581	6922	3853	39752	1660	6108
	Crabs & Larvae	3123	6415	1079	5050	1023	2781	107416	480611	137934	5344800	130702	93365
Mollusca	Gastropods	0	0	539	631	1535	0	0	989	771	3614	415	11343
	Bivalves	2602	18709	539	121194	7673	1854	512	330	771	3614	830	15706
Urochordata	Larvaceans	0	0	0	0	0	0	9207	989	16182	0	70538	76786
Chordata	Fish Larvae & Juvenile	0	0	0	631	512	0	1023	330	0	0	415	12216
	Eggs	3643	5880	1618	1262	0	3708	0	0	0	0	0	0
	Others	520	535	0	1262	0	0	1535	1319	2312	10841	830	3490
	<b>Total</b>	<b>31229</b>	<b>94080</b>	<b>17261</b>	<b>218402</b>	<b>26598</b>	<b>42647</b>	<b>896671</b>	<b>848817</b>	<b>867674</b>	<b>9182648</b>	<b>1132754</b>	<b>3478063</b>

**Month: November 2000**

Phyla	Taxa	Chon Buri						Phetchaburi					
		B1	E1	B2	E2	B3	E3	B1	E1	B2	E2	B3	E3
Protozoa	Foraminiferans	756	994	0	0	0	274	4222	482	49516	1712	1121	30299
Cnidaria	Hydromedusae	33657	11931	17286	31799	44783	37807	844	3371	3032	856	0	7313
	Scyphozoan Larvae	0	0	0	0	0	0	0	0	0	0	0	0
Ctenophora	Ctenophores	50675	23861	11007	17612	52159	42464	0	963	2021	0	0	2090
Chaetognatha	Chaetognaths	28363	17399	15818	8317	46363	24383	844	963	1011	856	0	4179
Annelida	Polychaetes	3025	1988	652	2691	1581	1918	1689	482	1011	0	2242	4179
Arthropoda	Barnacle Larvae	114964	88983	31147	85125	56900	92874	11822	14447	15158	6849	2242	33433
	Ostracods	1891	497	82	1468	3161	1370	0	0	0	0	0	6269
	Cladocerans	0	0	0	245	0	0	0	0	0	0	0	0
	Copepods	760880	190891	257249	114722	599033	807372	182392	632311	196041	308209	40347	682240
	Isopods	0	0	0	0	0	0	0	0	0	0	0	0
	Amphipods	0	0	0	0	0	0	0	0	1011	0	1121	3134
	Lucifers & Larvae	57482	30324	35061	35713	48471	150680	844	963	0	0	2242	3134
	Shrimps & Larvae	1891	2486	2528	489	1054	12876	0	2408	0	4281	1121	0
	Crabs & Larvae	24959	6960	8235	9295	13171	50683	21955	45268	83873	106161	11208	181791
Mollusca	Gastropods	1135	0	245	978	1054	822	0	0	0	0	0	0
	Bivalves	756	1491	245	1712	527	548	4222	1445	9095	0	3362	53284
Urochordata	Larvaceans	1513	3480	6523	2691	7903	3562	0	6742	1011	12842	1121	12537
Chordata	Fish Larvae & Juvenile	3025	497	978	245	527	1918	0	482	1011	0	1121	0
	Eggs	756	994	734	0	1581	274	4222	2408	5053	2568	3362	5224
	Others	1891	5965	1142	2691	4215	6027	844	482	0	2568	1121	3134
	<b>Total</b>	<b>1087620</b>	<b>388742</b>	<b>388931</b>	<b>315792</b>	<b>882480</b>	<b>1235852</b>	<b>233901</b>	<b>713216</b>	<b>368841</b>	<b>446904</b>	<b>71729</b>	<b>1032241</b>



**Appendix 6. (Cont.)**  
**Month: December 2000**

Phyla	Taxa	Chon Buri						Phetchaburi					
		B1	E1	B2	E2	B3	E3	B1	E1	B2	E2	B3	E3
Protozoa	Foraminiferans	452	3397	0	398	0	4208	0	524	485	0	8285	3328
Cnidaria	Hydromedusae	3617	2912	1541	2784	1230	1202	0	2619	0	1290	0	525
	Scyphozoon Larvae	0	0	0	0	0	0	0	0	0	0	0	0
Ctenophora	Ctenophores	0	0	514	0	0	601	0	0	0	0	0	0
Chaetognatha	Chaetognaths	6781	1456	24650	3977	2870	9016	74052	14140	16014	16771	40786	13662
Annelida	Polychaetes	0	971	514	795	0	601	0	0	485	0	1275	175
Arthropoda	Barnacle Larvae	53347	42219	60084	16704	13121	28852	2885	524	1941	0	3186	525
	Ostracods	0	0	0	0	0	2404	0	1571	0	0	0	0
	Cladocerans	18084	19411	514	13522	13531	4208	0	0	0	0	0	0
	Copepods	64649	48042	82680	40168	21322	90762	515481	206341	84922	268343	153585	116473
	Isopods	0	0	0	0	0	0	0	0	0	645	0	0
	Amphipods	904	0	0	398	410	0	1923	30375	0	3225	637	0
	Lucifers & Larvae	58320	62115	26704	26646	13941	49889	10579	2619	5338	2580	3824	3503
	Shrimps & Larvae	904	971	1027	398	1230	1202	10579	12045	3882	4515	15932	2102
	Crabs & Larvae	8138	11647	26191	4772	5740	108794	14426	1571	0	0	1275	876
	Mollusca	Gastropods	2260	1456	0	1193	0	2404	962	1047	0	0	0
	Bivalves	452	971	514	795	0	0	0	10998	0	1290	3186	0
Urochordata	Larvaceans	1808	9220	12325	7954	15581	28250	0	0	485	1290	0	0
Chordata	Fish Larvae & Juvenile	452	971	514	0	410	1202	0	0	485	0	0	0
	Eggs	4521	8735	16947	6761	10251	7814	1923	3142	2912	1290	637	5079
	Others	452	2912	1027	3182	0	0	962	41897	485	4515	3186	350
	<b>Total</b>		<b>225141</b>	<b>217401</b>	<b>255743</b>	<b>130447</b>	<b>99639</b>	<b>341410</b>	<b>633773</b>	<b>329413</b>	<b>117436</b>	<b>305756</b>	<b>235795</b>

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**VITAE**

Miss Nontivich Tandavanitj was born in Bangkok, Thailand, on December 2, 1972. She had received a Bachelor of Science degree in General Biology from the University of California, San Diego.



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