



## **APPENDIX 1: QUESTIONNAIRE FOR MARINE CAPTURE FISHERIES**



## APPENDIX 1: QUESTIONNAIRE FOR MARINE CAPTURE FISHERIES

1. Name of Fishermen: \_\_\_\_\_
2. Vessel type: \_\_\_\_\_
3. Vessel No.: \_\_\_\_\_
4. Gear employed: \_\_\_\_\_
5. Fishing grounds:
  - i. Main: \_\_\_\_\_ km from the coastline
  - ii. Additional/supplementary: \_\_\_\_\_ km from the coastline
6. How often in a month do you fish: \_\_\_\_\_
7. Number of worker on-board:
  - i. Higher number: \_\_\_\_\_ number of worker x \_\_\_\_\_ months x Salary/worker \_\_\_\_\_ RM/month during employment
  - ii. Lower number: \_\_\_\_\_ number of worker x \_\_\_\_\_ months x Salary/worker \_\_\_\_\_ RM/month during employment
8. Catch:
  - i. Higher catch: \_\_\_\_\_ number of months x \_\_\_\_\_ kg/month x \_\_\_\_\_ RM/kg
  - ii. Lower catch: \_\_\_\_\_ number of months x \_\_\_\_\_ kg/month x \_\_\_\_\_ RM/kg
9. Fuel cost:
  - i. Higher number: \_\_\_\_\_ litres x \_\_\_\_\_ x RM \_\_\_\_\_ /litre
  - ii. Lower number: \_\_\_\_\_ litres x \_\_\_\_\_ x RM \_\_\_\_\_ /litre



## **APPENDIX 2: QUESTIONNAIRE FOR AQUACULTURE**



## APPENDIX 2: QUESTIONNAIRE FOR AQUACULTURE

### Cage Culture Farms

1. Name of Farmer: \_\_\_\_\_
2. Location of Farm: \_\_\_\_\_
3. SKL No.: \_\_\_\_\_
4. Number of workers involved: \_\_\_\_\_ Salary/worker \_\_\_\_\_ RM/month
5. Cages:
  - ❖ Nursery cages \_\_\_\_\_ Productive area: \_\_\_\_\_ m<sup>2</sup>
  - ❖ Grow-out cages \_\_\_\_\_ Productive area: \_\_\_\_\_ m<sup>2</sup>
6. Species reared: \_\_\_\_\_
7. Stocking density per m<sup>2</sup>:
  - ❖ 1<sup>st</sup> species – Nursery: \_\_\_\_\_ Grow-Out \_\_\_\_\_
  - ❖ 2<sup>nd</sup> species – Nursery: \_\_\_\_\_ Grow-Out \_\_\_\_\_
  - ❖ 3<sup>rd</sup> species – Nursery: \_\_\_\_\_ Grow-Out \_\_\_\_\_
8. Size of seed:
  - ❖ 1<sup>st</sup> species : \_\_\_\_\_
  - ❖ 2<sup>nd</sup> species : \_\_\_\_\_
  - ❖ 3<sup>rd</sup> species : \_\_\_\_\_
9. Source of seed: \_\_\_\_\_ Unit cost of seed: \_\_\_\_\_
10. Culture period: \_\_\_\_\_ months
11. Average mortality per cycle: \_\_\_\_\_ %
12. Feed
  - ❖ Trash fish
    - Consumption/day: \_\_\_\_\_ kg.
    - Cost: \_\_\_\_\_ RM/kg
  - ❖ Feed supplement



- Type/Brand: \_\_\_\_\_
- Mixing Ratio (per kg trash fish): \_\_\_\_\_
- Cost: \_\_\_\_\_ RM/kg

13. Harvest

❖ Harvest size

- 1<sup>st</sup> species \_\_\_\_\_ kg/fish
- 2<sup>nd</sup> species \_\_\_\_\_ kg/fish
- 3<sup>rd</sup> species \_\_\_\_\_ kg/fish

❖ Ex-farm offered price:

- 1<sup>st</sup> species \_\_\_\_\_ RM/kg
- 2<sup>nd</sup> species \_\_\_\_\_ RM/kg
- 3<sup>rd</sup> species \_\_\_\_\_ RM/kg

❖ Production:

- 1<sup>st</sup> species \_\_\_\_\_ tonnes/year
- 2<sup>nd</sup> species \_\_\_\_\_ tonnes/year
- 3<sup>rd</sup> species \_\_\_\_\_ tonnes/year

14. Disease: \_\_\_\_\_

Type: \_\_\_\_\_

Frequency: \_\_\_\_\_

Type of treatment: \_\_\_\_\_

15. Antibiotics used?

Type/Brand: \_\_\_\_\_

Cost: \_\_\_\_\_

Dosage: \_\_\_\_\_

Frequency: \_\_\_\_\_



## **APPENDIX 3: MACROBENTHOS RESULT**



## **APPENDIX 3: MACROBENTHOS RESULT (IN MS EXCEL)**

**Table A3.1: Macrobenthos Result during Northeast Monsoon**



**Table A3.2: Macrobenthos Result during Southwest Monsoon**





**Table A3.3: Macrobenthos Result during Intermonsoon**



## **APPENDIX 4: MANGROVE RESULT**



## APPENDIX 4: MANGROVE RESULT

Table A4.1: Mangrove Transects at the Study Area (T1-T22)

Transect	Quadrat	Species	Type	Number of trees	Girth (cm)	Height (m)
T1 (Start: 01°15.962'N, 103°30.616'E; End: 01°16.023'N, 103°30.635'E)	T1Q1	<i>Bruguiera parviflora</i>	Trees	9	12-59	5-30
		<i>Rhizophora apiculata</i>	Trees	10	23-25	20-40
		<i>Bruguiera parviflora</i>	Saplings	16	1-5	2-3
		<i>Rhizophora apiculata</i>	Saplings	51	2-4	2-3
	T1Q2	<i>Bruguiera parviflora</i>	Trees	11	9-25	5-12
		<i>Rhizophora apiculata</i>	Trees	5	10-90	6-24
		<i>Bruguiera parviflora</i>	Saplings	60	2-4	2-3
		<i>Rhizophora apiculata</i>	Saplings	12	1-2	2-3
	T1Q3	<i>Bruguiera parviflora</i>	Trees	10	8	6
		<i>Rhizophora apiculata</i>	Trees	67	5-80	4-24
		<i>Rhizophora mucronata</i>	Trees	1	50	14
		<i>Bruguiera parviflora</i>	Saplings	6	5	3
		<i>Rhizophora apiculata</i>	Saplings	65	3-5	2-3
	T1Q4	<i>Rhizophora apiculata</i>	Trees	22	25-90	10-30
		<i>Bruguiera parviflora</i>	Trees	15	3-5	4-6
		<i>Rhizophora apiculata</i>	Saplings	40	2-4	2-3
	T1Q5	<i>Rhizophora apiculata</i>	Trees	3	50-80	20-25
		<i>Rhizophora apiculata</i>	Saplings	40	2-4	2-3
	T1Q6	<i>Bruguiera parviflora</i>	Trees	22	10-20	4-15
		<i>Rhizophora apiculata</i>	Trees	69	5-80	4-30
		<i>Rhizophora apiculata</i>	Saplings	90	2-3	1-2
	T1Q7	<i>Bruguiera parviflora</i>	Trees	7	5-60	6-25
		<i>Rhizophora apiculata</i>	Trees	19	10-80	6-20
		<i>Rhizophora mucronata</i>	Trees	1	30	14
		<i>Rhizophora apiculata</i>	Saplings	15	3-5	1-2
	T1Q8	<i>Rhizophora apiculata</i>	Trees	74	5-90	4-25
		<i>Rhizophora mucronata</i>	Trees	1	40	25
	T1Q9	<i>Bruguiera parviflora</i>	Trees	10	5	6
		<i>Rhizophora apiculata</i>	Trees	32	5-50	4-20
		<i>Bruguiera parviflora</i>	Saplings	40	3-5	1-3
<i>Rhizophora apiculata</i>		Saplings	35	2-4	2-3	
T1Q10	<i>Rhizophora apiculata</i>	Trees	64	7-70	5-30	
	<i>Rhizophora mucronata</i>	Trees	3	50-60	25-30	
	<i>Rhizophora apiculata</i>	Saplings	75	2-3	0.5-1	



Contn...

	T1Q11	<i>Bruguiera parviflora</i>	Trees	9	5-10	4-6
		<i>Rhizophora apiculata</i>	Trees	105	5-90	4-30
		<i>Bruguiera parviflora</i>	Saplings	2	4-5	2-3
		<i>Rhizophora apiculata</i>	Saplings	41	2-3	1-2
	T1Q12	<i>Bruguiera parviflora</i>	Trees	3	15	12
		<i>Rhizophora apiculata</i>	Trees	103	10-80	6-24
<i>Rhizophora mucronata</i>		Trees	11	10-40	4-20	
T2 (Start: 01°15.200'N, 103°30.661'E; End: 01°15.200'N, 103°30.634'E)	T2Q1	<i>Bruguiera cylindrica</i>	Trees	57	3-50	4-20
		<i>Bruguiera parviflora</i>	Trees	3	7-10	8-10
		<i>Rhizophora apiculata</i>	Trees	71	3-70	4-23
		<i>Bruguiera cylindrica</i>	Saplings	15	2	3
		<i>Rhizophora apiculata</i>	Saplings	10	2	3
	T2Q2	<i>Bruguiera cylindrica</i>	Trees	46	5-20	4-10
		<i>Rhizophora apiculata</i>	Trees	28	4-80	4-25
		<i>Bruguiera cylindrica</i>	Saplings	25	4	3
		<i>Rhizophora apiculata</i>	Saplings	48	2-3	0.5-3
	T2Q3	<i>Bruguiera cylindrica</i>	Trees	82	5-30	4-18
		<i>Rhizophora apiculata</i>	Trees	4	30-50	18-25
		<i>Bruguiera cylindrica</i>	Saplings	100	4	3
	T2Q4	<i>Bruguiera parviflora</i>	Trees	9	2-3	4-6
		<i>Rhizophora apiculata</i>	Trees	64	5-20	6-26
	T2Q5	<i>Bruguiera cylindrica</i>	Trees	75	7-10	6-8
<i>Bruguiera parviflora</i>		Trees	5	20	14-16	
<i>Rhizophora apiculata</i>		Trees	22	20-80	10-26	
T3 (Start: 01°16.020'N, 103°30.684'E; End: 01°16.009'N, 103°30.648'E)	T3Q1	<i>Bruguiera cylindrica</i>	Trees	35	12-20	4-6
		<i>Ceriops tagal</i>	Trees	4	30	12
		<i>Rhizophora apiculata</i>	Trees	15	10-100	5-25
		<i>Rhizophora mucronata</i>	Trees	1	15	14
		<i>Bruguiera cylindrica</i>	Saplings	33	5-10	2-3
		<i>Rhizophora apiculata</i>	Saplings	6	3-4	2-3
	T3Q2	<i>Bruguiera cylindrica</i>	Trees	41	10-60	4-16
		<i>Ceriops tagal</i>	Trees	45	4-5	4-6
		<i>Rhizophora apiculata</i>	Trees	7	60-90	16-22
		<i>Rhizophora mucronata</i>	Trees	1	40	14
		<i>Rhizophora apiculata</i>	Saplings	17	10	3
	T3Q3	<i>Bruguiera cylindrica</i>	Trees	30	15	5-8
<i>Rhizophora apiculata</i>		Trees	8	10-90	5-20	
<i>Rhizophora mucronata</i>		Trees	1	40	12	



Contn...

	T3Q4	<i>Bruguiera cylindrica</i>	Trees	47	3-30	4-12
		<i>Ceriops tagal</i>	Trees	1	30	14
		<i>Rhizophora apiculata</i>	Trees	17	20-90	6-20
		<i>Rhizophora mucronata</i>	Trees	1	50	18
		<i>Bruguiera cylindrica</i>	Saplings	20	2	3
		<i>Xylocarpus granatum</i>	Saplings	1	1	0.5
	T3Q5	<i>Bruguiera cylindrica</i>	Trees	49	10-30	6-14
		<i>Rhizophora apiculata</i>	Trees	7	50-60	16-18
		<i>Rhizophora mucronata</i>	Trees	2	40-50	12-16
		<i>Bruguiera cylindrica</i>	Saplings	41	2-3	2-3
	T3Q6	<i>Bruguiera cylindrica</i>	Trees	50	10-30	6-14
		<i>Rhizophora apiculata</i>	Trees	4	60-70	18-24
		<i>Rhizophora mucronata</i>	Trees	8	40-100	18-28
		<i>Rhizophora apiculata</i>	Saplings	30	1-2	0.5
	T3Q7	<i>Bruguiera cylindrica</i>	Trees	36	10-25	5-9
		<i>Rhizophora apiculata</i>	Trees	4	60-100	20-26
<i>Rhizophora mucronata</i>		Trees	6	50-80	18-22	
<i>Rhizophora apiculata</i>		Saplings	50	1-2	0.5	
T4 (Start: 01°16.040'N, 103°30.675'E; End: 01°16.031'N, 103°30.644'E)	T4Q1	<i>Bruguiera cylindrica</i>	Trees	41	10-20	4-8
		<i>Rhizophora apiculata</i>	Trees	2	70-100	18-30
		<i>Rhizophora apiculata</i>	Saplings	55	2-3	1-2
	T4Q2	<i>Bruguiera cylindrica</i>	Trees	38	10-20	6-8
		<i>Ceriops tagal</i>	Trees	1	40	10
		<i>Rhizophora apiculata</i>	Trees	27	3-90	4-25
		<i>Rhizophora mucronata</i>	Trees	1	24	90
		<i>Rhizophora apiculata</i>	Saplings	15	2-3	2
	T4Q3	<i>Bruguiera cylindrica</i>	Trees	24	10-50	6-18
		<i>Ceriops tagal</i>	Trees	2	40-50	15-25
		<i>Rhizophora apiculata</i>	Trees	24	3-20	4-10
		<i>Rhizophora mucronata</i>	Trees	3	15-60	8-22
		<i>Bruguiera cylindrica</i>	Saplings	40	2-3	0.5
		<i>Ceriops tagal</i>	Saplings	1	2	2
		<i>Rhizophora apiculata</i>	Saplings	2	3-4	2-3
	T4Q4	<i>Bruguiera cylindrica</i>	Trees	17	10-40	6-12
		<i>Ceriops tagal</i>	Trees	1	10	4
		<i>Rhizophora apiculata</i>	Trees	25	5-30	4-12
		<i>Rhizophora mucronata</i>	Trees	1	90	16
		<i>Bruguiera cylindrica</i>	Saplings	22	2-5	0.5-3
		<i>Ceriops tagal</i>	Saplings	1	5	0.5
<i>Rhizophora apiculata</i>		Saplings	73	0.5-2	1-2	



Contn...

	T4Q5	<i>Bruguiera cylindrica</i>	Trees	13	5-40	4-15
		<i>Bruguiera parviflora</i>	Trees	3	40-60	18-25
		<i>Ceriops tagal</i>	Trees	1	30	15
		<i>Rhizophora apiculata</i>	Trees	8	3-50	4-20
		<i>Rhizophora mucronata</i>	Trees	5	50-80	18-30
		<i>Avicennia officinalis</i>	Saplings	1	2	1.5
		<i>Bruguiera cylindrica</i>	Saplings	14	2-5	2-3
		<i>Ceriops tagal</i>	Saplings	1	1	0.5
		<i>Rhizophora apiculata</i>	Saplings	34	1-2	0.5-3
	T4Q6	<i>Bruguiera cylindrica</i>	Trees	41	10-40	4-15
		<i>Bruguiera parviflora</i>	Trees	2	80	20
		<i>Rhizophora apiculata</i>	Trees	8	70-80	18-24
		<i>Rhizophora mucronata</i>	Trees	7	40-90	14-22
		<i>Bruguiera cylindrica</i>	Saplings	9	1-5	1-2
<i>Rhizophora apiculata</i>		Saplings	35	1-2	0.5	
T5 (Start: 01°16.040'N, 103°30.675'E; End: 01°16.031'N, 103°30.644'E)	T5Q1	<i>Avicennia officinalis</i>	Trees	1	60	14
		<i>Bruguiera cylindrica</i>	Trees	23	5-30	5-8
		<i>Bruguiera gymnorrhiza</i>	Trees	3	40	10
		<i>Rhizophora apiculata</i>	Trees	2	70-90	20-25
		<i>Rhizophora mucronata</i>	Trees	4	10-100	6-30
		<i>Ceriops tagal</i>	Saplings	1	5	3
	T5Q2	<i>Avicennia officinalis</i>	Trees	1	20	10
		<i>Bruguiera cylindrica</i>	Trees	15	10-20	4-8
		<i>Bruguiera gymnorrhiza</i>	Trees	6	6-50	5-14
		<i>Rhizophora apiculata</i>	Trees	15	25-80	12-30
		<i>Rhizophora mucronata</i>	Trees	3	80	30
	T5Q3	<i>Avicennia officinalis</i>	Trees	2	20-50	25
		<i>Bruguiera cylindrica</i>	Trees	4	10	6
		<i>Bruguiera gymnorrhiza</i>	Trees	7	30-50	10-20
		<i>Rhizophora apiculata</i>	Trees	2	25-70	12-24
		<i>Rhizophora mucronata</i>	Trees	3	10-40	8-10
		<i>Bruguiera cylindrica</i>	Saplings	8	5	2-3
		<i>Rhizophora apiculata</i>	Saplings	15	5	2-3
	T5Q4	<i>Bruguiera cylindrica</i>	Trees	9	10-30	5-10
		<i>Bruguiera gymnorrhiza</i>	Trees	21	2-30	4-8
		<i>Rhizophora apiculata</i>	Trees	18	2-90	4-25
		<i>Bruguiera cylindrica</i>	Saplings	11	5	3
		<i>Bruguiera gymnorrhiza</i>	Saplings	15	1-2	2-3
		<i>Rhizophora apiculata</i>	Saplings	5	1-2	2-3



Contn...

	T5Q5	<i>Avicennia officinalis</i>	Trees	1	10	6	
		<i>Bruguiera cylindrica</i>	Trees	28	5-30	5-10	
		<i>Bruguiera gymnorrhiza</i>	Trees	2	2-40	4-10	
		<i>Rhizophora apiculata</i>	Trees	14	40-90	16-25	
		<i>Rhizophora mucronata</i>	Trees	32	2-90	4-25	
		<i>Avicennia officinalis</i>	Saplings	20	2-3	2	
		<i>Bruguiera gymnorrhiza</i>	Saplings	2	1-2	2-3	
		<i>Rhizophora apiculata</i>	Saplings	20	1-2	2-3	
		<i>Rhizophora mucronata</i>	Saplings	35	1-2	2-3	
T6 (Start: 01°16.040'N, 103°30.675'E; End: 01°16.031'N, 103°30.644'E)	T6Q1	<i>Avicennia</i>	Trees	30	15-20	8-10	
		<i>Bruguiera</i>	Trees	5	15-30	8-15	
		<i>Rhizophora</i>	Trees	57	5-90	4-28	
		<i>Rhizophora</i>	Saplings	30	5-10	3	
	T6Q2	<i>Avicennia</i>	Trees	1	50	15	
		<i>Bruguiera</i>	Trees	13	15	8	
		<i>Rhizophora</i>	Trees	15	5-110	4-30	
		<i>Avicennia</i>	Saplings	1	5	2	
		<i>Rhizophora</i>	Saplings	30	5	3	
	T6Q3	<i>Avicennia</i>	Trees	2	30	10	
		<i>Bruguiera</i>	Trees	7	20-70	10-20	
		<i>Rhizophora</i>	Trees	44	5-85	4-28	
		<i>Rhizophora</i>	Saplings	25	5	3	
	T6Q4	<i>Avicennia</i>	Trees	7	15-30	8-10	
		<i>Bruguiera</i>	Trees	6	15-30	8-15	
		<i>Rhizophora</i>	Trees	64	5-180	4-38	
		<i>Cerriops</i>	Saplings	1	5	3	
		<i>Rhizophora</i>	Saplings	20	5	3	
	T7 (Start: 01°17.539'N, 103°30.667'E; End: 01°17.545'N, 103°30.695'E)	T7Q1	<i>Avicennia</i>	Trees	3	20-60	10-15
			<i>Bruguiera</i>	Trees	3	15-25	8-10
<i>Rhizophora</i>			Trees	32	10-120	4-32	
<i>Rhizophora</i>			Saplings	20	10	3	
T7Q2		<i>Avicennia</i>	Trees	4	20-80	10-25	
		<i>Bruguiera</i>	Trees	2	60-70	20	
		<i>Rhizophora</i>	Trees	18	5-200	4-40	
		<i>Rhizophora</i>	Saplings	10	5	3	
T7Q3		<i>Bruguiera</i>	Trees	2	50-60	15-20	
		<i>Rhizophora</i>	Trees	48	5-150	4-35	
		<i>Rhizophora</i>	Saplings	15	5	3	
T7Q4		<i>Bruguiera</i>	Trees	2	20-30	15-18	
		<i>Rhizophora</i>	Trees	39	20-140	10-35	



Contn...

	T7Q5	<i>Bruguiera</i>	Trees	4	20-30	15-18
		<i>Rhizophora</i>	Trees	53	20-150	10-35
T8 (Start: 01°18.124'N, 103°30.748'E; End: 01°18.114'N, 103°30.804'E)	T8Q1	<i>Avicennia</i>	Trees	10	20-50	10-15
		<i>Bruguiera</i>	Trees	6	15-45	8-15
		<i>Rhizophora</i>	Trees	46	5-50	4-23
		<i>Avicennia</i>	Saplings	10	5	2
		<i>Rhizophora</i>	Saplings	30	5	3
	T8Q2	<i>Rhizophora</i>	Trees	42	5-120	4-32
		<i>Rhizophora</i>	Saplings	20	5	3
	T8Q3	<i>Avicennia</i>	Trees	7	15-40	8-15
		<i>Bruguiera</i>	Trees	5	50-80	15-25
		<i>Rhizophora</i>	Trees	48	30-80	10-25
	T8Q4	<i>Avicennia</i>	Trees	4	20-30	10
		<i>Bruguiera</i>	Trees	3	50-70	15-20
		<i>Rhizophora</i>	Trees	34	30-80	10-25
	T8Q5	<i>Avicennia</i>	Trees	4	15-30	8-10
		<i>Bruguiera</i>	Trees	3	20-50	10-15
		<i>Rhizophora</i>	Trees	60	5-70	4-25
		<i>Bruguiera</i>	Saplings	1	10	3
		<i>Rhizophora</i>	Saplings	15	5	3
	T8Q6	<i>Avicennia</i>	Trees	2	50	15
		<i>Rhizophora</i>	Trees	50	10-60	5-25
	T8Q7	<i>Avicennia</i>	Trees	4	20-50	10-15
		<i>Bruguiera</i>	Trees	4	15-30	8-15
		<i>Rhizophora</i>	Trees	44	8-70	4-25
		<i>Bruguiera</i>	Saplings	1	10	3
		<i>Rhizophora</i>	Saplings	20	5	3
	T8Q8	<i>Avicennia</i>	Trees	10	15-35	8-10
		<i>Bruguiera</i>	Trees	14	15-60	8-20
		<i>Rhizophora</i>	Trees	33	5-70	4-25
		<i>Bruguiera</i>	Saplings	1	10	3
		<i>Rhizophora</i>	Saplings	25	5-10	3
	T8Q9	<i>Avicennia</i>	Trees	13	15-70	8-20
		<i>Bruguiera</i>	Trees	81	12-100	4-30
<i>Rhizophora</i>		Trees	3	50-60	23	
<i>Avicennia</i>		Saplings	2	10	3	
<i>Bruguiera</i>		Saplings	1	5	2	
T8Q10	<i>Avicennia</i>	Trees	33	50-60	15	
	<i>Bruguiera</i>	Trees	14	20-60	10-20	





Contn...

<p>T9                      (Start:                      01°18.668'N,                      103°31.089'E;                      End:                      01°18.679'N,                      103°31.063'E)</p>	T9Q1	<i>Rhizophora apiculata</i>	Trees	31	10-40	4-15
		<i>Rhizophora mucronata</i>	Trees	37	13-97	6-20
		<i>Rhizophora apiculata</i>	Saplings	15	10	2.5-3
	T9Q2	<i>Rhizophora</i>	Trees	34	10-90	4-25
		<i>Rhizophora</i>	Saplings	10	10	3
	T9Q3	<i>Avicennia</i>	Trees	1	10-90	4-30
		<i>Rhizophora</i>	Trees	31	85	25
		<i>Rhizophora</i>	Saplings	3	10	3
	T9Q4	<i>Avicennia</i>	Trees	10	10	4
		<i>Rhizophora</i>	Trees	19	10-90	4-30
		<i>Sonneratia</i>	Trees	5	50-65	15
		<i>Avicennia</i>	Saplings	17	10	3
		<i>Rhizophora</i>	Saplings	6	10	3
	T9Q5	<i>Bruguiera gymnorrhiza</i>	Trees	19	15-80	8-25
		<i>Rhizophora</i>	Trees	10	15-80	8-25
		<i>Bruguiera gymnorrhiza</i>	Saplings	32	5-10	2-3
<i>Rhizophora</i>		Saplings	9	10	3	
<p>T10                      (Start:                      01°18.769'N,                      103°31.142'E;                      End:                      01°18.788'N,                      103°31.115'E)</p>	T10Q1	<i>Avicennia</i>	Trees	4	20-40	10-15
		<i>Bruguiera</i>	Trees	1	50	15
		<i>Rhizophora</i>	Trees	11	50-100	15-30
		<i>Avicennia</i>	Saplings	10	3-4	2
		<i>Rhizophora</i>	Saplings	49	5-10	2-3
	T10Q2	<i>Avicennia</i>	Trees	5	15-45	8-15
		<i>Bruguiera</i>	Trees	6	15-70	8-23
		<i>Rhizophora</i>	Trees	20	15-90	8-30
		<i>Avicennia</i>	Saplings	1	10	3
		<i>Rhizophora</i>	Saplings	78	5-10	2-3
	T10Q3	<i>Rhizophora</i>	Trees	92	5-95	4-30
		<i>Rhizophora</i>	Saplings	14	5	2-3
	T10Q4	<i>Avicennia</i>	Trees	4	30-50	10-15
		<i>Bruguiera</i>	Trees	3	25-50	10-15
		<i>Rhizophora</i>	Trees	28	10-95	5-20
	T10Q5	<i>Rhizophora</i>	Trees	70	5-95	4-30
		<i>Rhizophora</i>	Saplings	30	5	3
	T10Q6	<i>Rhizophora</i>	Trees	21	10-90	5-20
		<i>Rhizophora</i>	Saplings	45	5	3



Contn...

<p>T11                      (Start:                      01°18.849'N,                      103°31.222'E;                      End:                      01°18.874'N,                      103°31.204'E)</p>	T11Q1	<i>Avicennia</i>	Trees	35	15-80	8-25
		<i>Bruguiera</i>	Trees	11	20-100	10-30
		<i>Avicennia</i>	Saplings	82	5-10	2-3
		<i>Bruguiera</i>	Saplings	2	10	3
	T11Q2	<i>Avicennia</i>	Trees	25	15	5
		<i>Avicennia</i>	Saplings	20	10	3
	T11Q3	<i>Avicennia</i>	Trees	60	5-90	5-25
		<i>Bruguiera</i>	Trees	1	30	10
		<i>Rhizophora</i>	Trees	1	65	15
		<i>Rhizophora</i>	Saplings	7	5	2
	T11Q4	<i>Avicennia</i>	Saplings	30	5	2
	T11Q5	<i>Avicennia</i>	Trees	16	15-65	8-15
		<i>Rhizophora</i>	Trees	2	15	8
		<i>Rhizophora</i>	Saplings	26	5-10	2-3
	T11Q6	<i>Avicennia</i>	Trees	26	15-50	8-15
		<i>Rhizophora</i>	Trees	10	15-40	8-15
<i>Avicennia</i>		Saplings	8	10	3	
<i>Rhizophora</i>		Saplings	24	5-10	2-3	
<p>T12                      (Start:                      01°18.942'N,                      103°31.295'E;                      End:                      01°18.960'N,                      103°31.281'E)</p>	T12Q1	<i>Avicennia</i>	Trees	41	15-113	8-25
		<i>Rhizophora</i>	Trees	38	15-40	10-15
		<i>Rhizophora</i>	Saplings	32	5-10	2-3
	T12Q2	<i>Avicennia</i>	Trees	37	15-60	10-17
		<i>Rhizophora</i>	Trees	6	15-30	10
	T12Q3	<i>Avicennia</i>	Trees	162	5-50	5-15
	T12Q4	<i>Avicennia</i>	Trees	53	5-70	5-20
<i>Rhizophora</i>		Trees	20	30-40	10-15	
<p>T13                      (Start:                      01°19.132'N,                      103°31.462'E;                      End:                      01°19.157'N,                      103°31.449'E)</p>	T13Q1	<i>Avicennia</i>	Trees	25	5-15	6-8
		<i>Rhizophora</i>	Trees	109	5-100	5-35
	T13Q2	<i>Rhizophora</i>	Trees	71	5-90	5-30
	T13Q3	<i>Bruguiera</i>	Trees	2	30-70	20-25
		<i>Rhizophora</i>	Trees	56	10-70	15-25
		<i>Rhizophora</i>	Saplings	13	4	2-3
	T13Q4	<i>Rhizophora</i>	Trees	56	10-90	8-25
		<i>Rhizophora</i>	Saplings	20	1-2	0.5-1
	T13Q5	<i>Bruguiera</i>	Trees	3	10	12
		<i>Rhizophora</i>	Trees	27	20-70	15-25
<i>Bruguiera</i>		Saplings	1	2-3	2	



Contn...

T14 (Start: 01°19.207'N, 103°31.582'E; End: 01°19.233'N, 103°31.569'E)	T14Q1	<i>Avicennia</i>	Trees	65	20-30	10
	T14Q2	<i>Avicennia</i>	Trees	65	20-30	10
		<i>Sonneratia</i>	Trees	3	15-20	8-10
	T14Q3	<i>Avicennia</i>	Trees	65	20-30	10
		<i>Sonneratia</i>	Trees	2	20-23	10
	T14Q4	<i>Avicennia</i>	Trees	39	20-40	10-15
	T14Q5	<i>Avicennia</i>	Trees	28	15-70	8-20
		<i>Bruguiera</i>	Trees	4	15-30	8-15
		<i>Lumnitzera</i>	Trees	2	15-30	4-8
		<i>Rhizophora</i>	Trees	12	20-30	15-20
<i>Ceriops</i>		Saplings	2	15-30	2-3	
T15 (Start: 01°19.301'N, 103°31.663'E; End: 01°19.332'N, 103°31.651'E)	T15Q1	<i>Avicennia</i>	Trees	15	20-70	10-20
		<i>Rhizophora</i>	Trees	84	10-50	5-20
	T15Q2	<i>Avicennia</i>	Trees	15	20-70	10-20
		<i>Rhizophora</i>	Trees	80	10-50	5-20
	T15Q3	<i>Avicennia</i>	Trees	10	20-70	10-20
		<i>Rhizophora</i>	Trees	60	10-70	5-20
T15Q4	<i>Rhizophora</i>	Trees	50	10-90	5-25	
T15Q5	<i>Rhizophora</i>	Trees	60	10-100	5-30	
T15Q6	<i>Rhizophora</i>	Trees	50	10-100	5-30	
T16 (Start: 01°19.317'N, 103°31.810'E; End: 01°19.343'N, 103°31.798'E)	T16Q1	<i>Avicennia</i>	Trees	5	50	15
		<i>Bruguiera</i>	Trees	4	20-30	10-15
		<i>Rhizophora</i>	Trees	43	10-100	15-30
		<i>Ceriops</i>	Saplings	1	15	2.5
	T16Q2	<i>Rhizophora</i>	Trees	45	15-40	10-20
	T16Q3	<i>Avicennia</i>	Trees	3	50-60	15-17
		<i>Bruguiera</i>	Trees	2	25-30	10-15
		<i>Rhizophora</i>	Trees	40	15-45	10-20
	T16Q4	<i>Avicennia</i>	Trees	6	50-70	15-20
		<i>Bruguiera</i>	Trees	2	25-30	10-15
		<i>Rhizophora</i>	Trees	30	15-50	10-23
	T16Q5	<i>Avicennia</i>	Trees	3	50-70	15-20
<i>Bruguiera</i>		Trees	2	25-30	10-15	
<i>Rhizophora</i>		Trees	20	15-60	10-25	



Contn...

T17 (Start: 01°20.460'N, 103°32.534'E; End: 01°20.446'N, 103°32.511'E)	T17Q1	<i>Avicennia</i>	Trees	5	10-30	5-16
		<i>Rhizophora</i>	Trees	87	10-70	6-20
		<i>Avicennia</i>	Saplings	10	5	3
	T17Q2	<i>Avicennia</i>	Trees	5	15-20	12-16
		<i>Rhizophora</i>	Trees	32	10-65	10-25
		<i>Sonneratia</i>	Trees	5	5-20	4-10
		<i>Rhizophora</i>	Saplings	18	4-5	2-3
	T17Q3	<i>Rhizophora</i>	Trees	40	5-65	6-30
T17Q4	<i>Rhizophora</i>	Trees	37	5-110	6-30	
T17Q5	<i>Rhizophora</i>	Trees	50	15	15	
T18 (Start: 01°20.554'N, 103°32.490'E; End: 01°20.534'N, 103°32.464'E)	T18Q1	<i>Avicennia</i>	Trees	1	40	16
		<i>Rhizophora</i>	Trees	30	10-50	5-20
		<i>Sonneratia</i>	Trees	5	15-200	8-40
		<i>Avicennia</i>	Saplings	5	5	2
	T18Q2	<i>Avicennia</i>	Trees	5	30-50	16-20
		<i>Rhizophora</i>	Trees	26	10-70	14-25
		<i>Avicennia</i>	Saplings	2	10	3
	T18Q3	<i>Avicennia</i>	Trees	5	30-50	14-25
		<i>Rhizophora</i>	Trees	22	5-65	4-25
		<i>Rhizophora</i>	Saplings	10	5	2-3
	T18Q4	<i>Avicennia</i>	Trees	1	50	25
		<i>Rhizophora</i>	Trees	15	10-50	16-25
		<i>Rhizophora</i>	Saplings	43	5	2-2.5
	T18Q5	<i>Avicennia</i>	Trees	1	50	25
		<i>Rhizophora</i>	Trees	10	20-60	10-25
		<i>Rhizophora</i>	Saplings	20	5	1.5-2.5
	T18Q6	<i>Rhizophora</i>	Trees	11	30-65	20-25
		<i>Sonneratia</i>	Trees	1	120	35
<i>Rhizophora</i>		Saplings	10	5	1.5-2	
T19 (Start: 01°21.577'N, 103°32.045'E; End: 01°21.571'N, 103°32.020'E)	T19Q1	<i>Bruguiera gymnorrhiza</i>	Trees	1	50	25
		<i>Cerriops</i>	Trees	1	7	5
		<i>Rhizophora</i>	Trees	1	50	25
		<i>Rhizophora</i>	Saplings	100	5-7	1.5-2
	T19Q2	<i>Rhizophora</i>	Trees	15	30-70	20-28
	T19Q3	<i>Rhizophora</i>	Trees	22	10-90	16-30
	T19Q4	<i>Rhizophora</i>	Trees	24	10-70	15-28
T19Q5	<i>Rhizophora</i>	Trees	54	10-50	10-25	



Contn...

T20 (Start: 01°21.672'N, 103°32.022'E; End: 01°21.670'N, 103°31.995'E)	T20Q1	<i>Bruguiera</i>	Trees	2	15-20	12-15
		<i>Rhizophora</i>	Trees	24	30-70	18-30
	T20Q2	<i>Bruguiera</i>	Trees	1	50	35
		<i>Rhizophora</i>	Trees	12	50-70	20-30
	T20Q3	<i>Bruguiera</i>	Trees	1	50	35
		<i>Rhizophora</i>	Trees	24	5-70	6-30
	T20Q4	<i>Bruguiera</i>	Trees	1	50	25
		<i>Rhizophora</i>	Trees	13	15-110	10-35
		<i>Rhizophora</i>	Saplings	25	3	2-3
	T20Q5	<i>Rhizophora</i>	Trees	57	20-60	10-25
T21 (Start: 01°17.410'N, 103°29.052'E; End: 01°17.514'N, 103°29.148'E)	T21Q1	<i>Avicennia alba</i>	Trees	8	40	12
		<i>Sonneratia</i>	Trees	4	50	16
	T21Q2	<i>Avicennia alba</i>	Trees	18	40-60	12-24
		<i>Rhizophora apiculata</i>	Trees	2	20	8
	T21Q3	<i>Avicennia alba</i>	Trees	14	25	8
		<i>Rhizophora apiculata</i>	Trees	3	25	10
		<i>Sonneratia</i>	Trees	12	40-60	14-20
	T21Q4	<i>Avicennia alba</i>	Trees	28	30-50	10-20
		<i>Sonneratia</i>	Trees	10	50	18
	T21Q5	<i>Avicennia alba</i>	Trees	30	30-50	10-20
		<i>Rhizophora apiculata</i>	Trees	35	20-30	6-10
		<i>Sonneratia</i>	Trees	4	40-50	14-16
	T21Q6	<i>Avicennia alba</i>	Trees	15	30-50	10-20
		<i>Rhizophora apiculata</i>	Trees	20	20-30	8-10
		<i>Sonneratia</i>	Trees	9	40-60	14-20
	T21Q7	<i>Avicennia alba</i>	Trees	15	30-50	10-20
		<i>Rhizophora apiculata</i>	Trees	20	20-30	8-10
		<i>Sonneratia</i>	Trees	9	40-60	14-20
	T21Q8	<i>Avicennia alba</i>	Trees	20	8	12
		<i>Avicennia officinalis</i>	Trees	30	12	14
		<i>Rhizophora apiculata</i>	Trees	38	20-40	10-15
		<i>Sonneratia</i>	Trees	7	50-120	16-35
	T21Q9	<i>Avicennia alba</i>	Trees	20	10-50	6-12
		<i>Avicennia officinalis</i>	Trees	6	20-30	8-10
		<i>Rhizophora apiculata</i>	Trees	35	10-70	6-22
		<i>Sonneratia</i>	Trees	18	30-90	10-26
	T21Q10	<i>Avicennia alba</i>	Trees	17	20-40	8-16
		<i>Rhizophora apiculata</i>	Trees	41	10-50	6-22
		<i>Sonneratia</i>	Trees	2	50-90	16-30
	T21Q11	<i>Avicennia alba</i>	Trees	2	40-50	18
<i>Avicennia officinalis</i>		Trees	1	20	10	



Contn...

	T21Q11	<i>Bruguiera parviflora</i>	Trees	10	5	6
		<i>Rhizophora apiculata</i>	Trees	17	20-70	6-22
		<i>Sonneratia</i>	Trees	2	80-130	25-35
		<i>Avicennia officinalis</i>	Saplings	1	2	2.5
	T21Q12	<i>Avicennia officinalis</i>	Trees	2	3-40	4-12
		<i>Rhizophora apiculata</i>	Trees	39	5-70	6-24
		<i>Rhizophora mucronata</i>	Trees	1	50	18
		<i>Avicennia officinalis</i>	Saplings	1	5	2
		<i>Rhizophora apiculata</i>	Saplings	35	2	1-3
	T21Q13	<i>Avicennia officinalis</i>	Trees	7	10-40	8-14
		<i>Rhizophora apiculata</i>	Trees	52	5-60	6-22
		<i>Rhizophora apiculata</i>	Saplings	17	2-3	2-3
	T21Q14	<i>Avicennia</i>	Trees	5	10-50	8-18
		<i>Rhizophora apiculata</i>	Trees	45	10-80	6-22
	T21Q15	<i>Avicennia officinalis</i>	Trees	2	40	14
		<i>Bruguiera parviflora</i>	Trees	3	5	4
		<i>Rhizophora apiculata</i>	Trees	30	10-80	8-20
		<i>Sonneratia</i>	Trees	1	60	26
		<i>Avicennia officinalis</i>	Saplings	2	5	2-3
		<i>Bruguiera cylindrica</i>	Saplings	8	5	3
		<i>Bruguiera parviflora</i>	Saplings	7	2	3
	T21Q16	<i>Avicennia officinalis</i>	Trees	3	10-40	8-16
		<i>Bruguiera parviflora</i>	Trees	1	10	6
		<i>Ceriops tagal</i>	Trees	1	10	8
		<i>Rhizophora apiculata</i>	Trees	35	15-90	7-25
		<i>Sonneratia</i>	Trees	2	70-120	18-35
		<i>Rhizophora apiculata</i>	Saplings	7	2	0.5
	T21Q17	<i>Avicennia officinalis</i>	Trees	3	10-40	6-12
		<i>Bruguiera cylindrica</i>	Trees	3	10-15	8-10
		<i>Ceriops tagal</i>	Trees	1	60	20
		<i>Sonneratia</i>	Trees	3	11-70	18-30
<i>Rhizophora apiculata</i>		Trees	19	20-100	12-30	
<i>Rhizophora apiculata</i>		Saplings	25	1-2	0.5	
T21Q18	<i>Avicennia officinalis</i>	Trees	1	5	4	
	<i>Bruguiera cylindrica</i>	Trees	35	10-20	10-14	
	<i>Ceriops tagal</i>	Trees	1	20	10	
	<i>Rhizophora apiculata</i>	Trees	33	10-90	6-25	
	<i>Sonneratia</i>	Trees	2	120	30	
	<i>Bruguiera cylindrica</i>	Saplings	30	1-2	0.5-1	
	<i>Rhizophora apiculata</i>	Saplings	11	2-3	0.5-1	



Contn...

	T21Q19	<i>Avicennia officinalis</i>	Trees	1	40	14
		<i>Rhizophora apiculata</i>	Trees	3	25-120	12-35
		<i>Sonneratia</i>	Trees	1	120	30
		<i>Bruguiera cylindrica</i>	Saplings	5	2-3	1-2
		<i>Rhizophora apiculata</i>	Saplings	15	2-3	1-2
	T21Q20	<i>Avicennia officinalis</i>	Trees	2	30-60	10-12
		<i>Bruguiera cylindrica</i>	Trees	6	20	6-7
		<i>Rhizophora apiculata</i>	Trees	7	30-120	12-25
		<i>Sonneratia</i>	Trees	2	40-130	14-35
		<i>Bruguiera cylindrica</i>	Saplings	7	2-3	1-2
	T21Q21	<i>Bruguiera cylindrica</i>	Trees	3	25-40	12-14
		<i>Bruguiera parviflora</i>	Trees	2	30-50	12-18
		<i>Ceriops tagal</i>	Trees	1	40	14
		<i>Rhizophora apiculata</i>	Trees	8	40-90	14-25
		<i>Rhizophora mucronata</i>	Trees	3	50	24
		<i>Sonneratia</i>	Trees	2	50-150	18-35
		<i>Rhizophora apiculata</i>	Saplings	10	2	0.5
		<i>Bruguiera cylindrica</i>	Saplings	16	1-5	0.5-2
	T21Q22	<i>Bruguiera cylindrica</i>	Trees	7	10-50	6-14
		<i>Bruguiera parviflora</i>	Trees	20	10-30	6-12
		<i>Ceriops tagal</i>	Trees	3	40	14
		<i>Rhizophora apiculata</i>	Trees	9	40-90	14-25
	T21Q23	<i>Bruguiera cylindrica</i>	Trees	2	15-20	8-10
		<i>Bruguiera parviflora</i>	Trees	32	3-50	4-20
		<i>Rhizophora apiculata</i>	Trees	6	80	24
		<i>Sonneratia</i>	Trees	2	100-140	30-35
		<i>Rhizophora apiculata</i>	Saplings	10	1-2	0.5-1
	T21Q24	<i>Bruguiera cylindrica</i>	Trees	17	5-25	6-10
		<i>Bruguiera parviflora</i>	Trees	5	20-40	10-14
		<i>Rhizophora apiculata</i>	Trees	9	50-100	18-35
		<i>Sonneratia</i>	Trees	1	110	30
		<i>Bruguiera cylindrica</i>	Saplings	2	10	3
		<i>Bruguiera parviflora</i>	Saplings	20	3-4	2-3
	T21Q25	<i>Bruguiera cylindrica</i>	Trees	6	3-20	4-8
		<i>Bruguiera parviflora</i>	Trees	2	50-70	20-24
		<i>Rhizophora apiculata</i>	Trees	3	60-90	20-25
		<i>Sonneratia</i>	Trees	3	100-120	30-35
		<i>Bruguiera cylindrica</i>	Saplings	15	3-5	3
	T21Q26	<i>Avicennia officinalis</i>	Trees	2	5-20	4-8
		<i>Bruguiera cylindrica</i>	Trees	17	3-60	4-20
<i>Bruguiera gymnorrhiza</i>		Trees	3	40-50	14-16	



Contn...

	T21Q26	<i>Bruguiera parviflora</i>	Trees	8	10-40	4-18
		<i>Rhizophora apiculata</i>	Trees	3	60-80	22-24
		<i>Sonneratia</i>	Trees	2	120	30
		<i>Bruguiera cylindrica</i>	Saplings	3	2-3	3
		<i>Rhizophora apiculata</i>	Saplings	30	1-2	0.5
T22 (Start: 01°18.585'N, 103°27.891'E; End: 01°18.702'N, 103°27.978'E)	T22Q1	<i>Avicennia alba</i>	Trees	10	15-20	6-8
		<i>Sonneratia</i>	Trees	20	15-20	6-8
	T22Q2	<i>Avicennia alba</i>	Trees	20	15-20	6-8
		<i>Sonneratia</i>	Trees	10	15-20	6-8
	T22Q3	<i>Avicennia alba</i>	Trees	15	15-20	6-8
		<i>Sonneratia</i>	Trees	15	15-20	6-8
	T22Q4	<i>Avicennia alba</i>	Trees	10	15-20	6-8
		<i>Sonneratia</i>	Trees	20	15-20	6-8
	T22Q5	<i>Avicennia alba</i>	Trees	20	15-20	6-8
		<i>Sonneratia</i>	Trees	10	15-20	6-8
	T22Q6	<i>Avicennia alba</i>	Trees	39	8-13	20-50
		<i>Sonneratia</i>	Trees	1	40	12
	T22Q7	<i>Avicennia alba</i>	Trees	22	30-50	8-18
		<i>Sonneratia</i>	Trees	2	50	10-12
	T22Q8	<i>Avicennia alba</i>	Trees	25	15-70	8-18
		<i>Sonneratia</i>	Trees	1	50	16
	T22Q9	<i>Avicennia alba</i>	Trees	21	25-50	8-14
		<i>Sonneratia</i>	Trees	2	50	8-10
		<i>Avicennia alba</i>	Saplings	4	10	2-3
	T22Q10	<i>Avicennia alba</i>	Trees	32	15-70	8-16
	T22Q11	<i>Avicennia alba</i>	Trees	14	15-40	6-14
		<i>Sonneratia</i>	Trees	1	50	14
		<i>Avicennia alba</i>	Saplings	3	5	0.5-1
	T22Q12	<i>Avicennia alba</i>	Trees	13	15-60	6-20
	T22Q13	<i>Avicennia alba</i>	Trees	19	10-60	4-20
		<i>Rhizophora apiculata</i>	Trees	2	15	6-7
		<i>Avicennia alba</i>	Saplings	13	5-10	0.5-3
	T22Q14	<i>Avicennia alba</i>	Trees	33	25-40	4-12
	T22Q15	<i>Avicennia alba</i>	Trees	22	15-50	6-12
		<i>Rhizophora mucronata</i>	Trees	1	25	8
		<i>Sonneratia</i>	Trees	2	70-80	12-14
		<i>Rhizophora apiculata</i>	Saplings	1	5	3
T22Q16	<i>Avicennia alba</i>	Trees	1	20	8	
	<i>Rhizophora apiculata</i>	Trees	10	10-20	4-7	
	<i>Sonneratia</i>	Trees	1	60	12	
	<i>Avicennia alba</i>	Saplings	10	5	0.5-1	





Contn...

T22Q16	<i>Rhizophora apiculata</i>	Saplings	7	3	1
T22Q17	<i>Avicennia alba</i>	Trees	4	30-40	8-10
	<i>Rhizophora apiculata</i>	Trees	5	5-20	4-7
	<i>Sonneratia</i>	Trees	3	40-120	8-16
	<i>Avicennia alba</i>	Saplings	6	5	0.5-1
	<i>Rhizophora apiculata</i>	Saplings	13	1-5	0.5-3
T22Q18	<i>Avicennia alba</i>	Trees	3	20-30	6-8
	<i>Rhizophora apiculata</i>	Trees	5	15-40	7-8
	<i>Sonneratia</i>	Trees	2	40	8
	<i>Rhizophora apiculata</i>	Saplings	4	5	1
	<i>Sonneratia</i>	Saplings	1	5	2
T22Q19	<i>Avicennia alba</i>	Trees	24	10-40	5-6
	<i>Rhizophora apiculata</i>	Trees	4	25-40	8-10
	<i>Sonneratia</i>	Trees	2	40-70	10-16
	<i>Rhizophora apiculata</i>	Saplings	8	5	2-3
T22Q20	<i>Avicennia alba</i>	Trees	3	10-20	5-6
	<i>Rhizophora apiculata</i>	Trees	19	5-35	4-8
	<i>Sonneratia</i>	Trees	2	30-40	12
	<i>Avicennia alba</i>	Saplings	1	5	2
	<i>Ceriops tagal</i>	Saplings	1	10	2
	<i>Rhizophora apiculata</i>	Saplings	6	5	1-3
T22Q21	<i>Avicennia alba</i>	Trees	1	40	10
	<i>Rhizophora apiculata</i>	Trees	11	15-30	6-8
	<i>Sonneratia</i>	Trees	1	80	18
	<i>Avicennia alba</i>	Saplings	13	10	2-3
	<i>Rhizophora apiculata</i>	Saplings	9	5	1-3
T22Q22	<i>Avicennia alba</i>	Trees	3	10-40	6-12
	<i>Rhizophora apiculata</i>	Trees	19	10-40	6-10
	<i>Ceriops tagal</i>	Saplings	7	4	2-3
T22Q23	<i>Avicennia alba</i>	Trees	1	20	7
	<i>Rhizophora apiculata</i>	Trees	22	10-90	5-25
	<i>Sonneratia</i>	Trees	2	70-90	16-20
	<i>Ceriops tagal</i>	Saplings	4	5	1-2
T22Q24	<i>Ceriops tagal</i>	Trees	4	10	5
	<i>Rhizophora apiculata</i>	Trees	15	10-20	6-8
	<i>Sonneratia</i>	Trees	1	70	18
	<i>Ceriops tagal</i>	Saplings	8	2-3	1
	<i>Rhizophora apiculata</i>	Saplings	7	3	1
T22Q25	<i>Avicennia officinalis</i>	Trees	1	25	8
	<i>Ceriops tagal</i>	Trees	5	20	8-10
	<i>Rhizophora apiculata</i>	Trees	22	10-60	6-14



Contn...

	T22Q25	<i>Rhizophora mucronata</i>	Trees	1	50	12
		<i>Rhizophora apiculata</i>	Saplings	26	3-5	0.5-2
		<i>Bruguiera cylindrica</i>	Saplings	1	5	2
	T22Q26	<i>Bruguiera parviflora</i>	Trees	1	10	4
		<i>Rhizophora apiculata</i>	Trees	22	10-40	7-10
		<i>Sonneratia</i>	Trees	4	30-90	10-20
		<i>Avicennia officinalis</i>	Saplings	1	5	3
	<i>Ceriops tagal</i>	Saplings	2	10	2-3	



## **APPENDIX 5: STATUS OF SEAGRASS HEALTH**



## APPENDIX 5: STATUS OF SEAGRASS HEALTH

**Table A5.1: Status of Seagrass Health between Sg. Tembusu and Sg. Dinar (T1 – T3)**

Transect	Quadrat	Sediment Type	% seagrass cover
<b>T1</b> (Start 01° 20.371' N, 103° 32.668' E; End 01° 20.424' N, 103° 32.651' E)	T1Q1	Muddy	30
	T1Q2	Muddy	30
	T1Q3	Muddy	25
	T1Q4	Muddy	25
	T1Q5	Muddy	25
	T1Q6	Muddy	25
	T1Q7	Muddy	25
	T1Q8	Muddy	50
	T1Q9	Muddy	50
	T1Q10	Muddy	50
	T1Q11	Muddy	50
<b>T2</b> (Start 01° 20.448' N, 103° 32.668' E; End 01° 20.496' N, 103° 32.616' E)	T2Q1	Muddy	55
	T2Q2	Muddy	55
	T2Q3	Muddy	30
	T2Q4	Muddy	25
	T2Q5	Muddy	25
	T2Q6	Muddy	25
	T2Q7	Muddy	25
	T2Q8	Muddy	30
	T2Q9	Muddy	50
	T2Q10	Muddy	55
	T2Q11	Muddy	55
<b>T3</b> (Start 01° 20.517' N, 103° 32.598' E; End 01° 20.560' N, 103° 32.565' E)	T3Q1	Muddy	25
	T3Q2	Muddy	25
	T3Q3	Muddy	25
	T3Q4	Muddy	25
	T3Q5	Muddy	25
	T3Q6	Muddy	25
	T3Q7	Muddy	25
	T3Q8	Muddy	50
	T3Q9	Muddy	50
	T3Q10	Muddy	50
	T3Q11	Muddy	50



**Table A5.2: Status of Seagrass Health Off Tg. Pelepas Port (T1 – T17)**

Transect	Quadrate	Sediment Type	% seagrass cover
<b>T1</b> (Start 1°19.831' N, 103°34.084' E; End 1°19.849' N, 103°34.075' E)	T1Q1	Sandy	40
	T1Q2	Sandy	45
	T1Q3	Sandy	45
	T1Q4	Sandy	30
	T1Q5	Sandy	30
<b>T2</b> (Start 1°19.827' N, 103°34.076' E, End 1°19.850' N 103°34.065' E)	T2Q1	Sandy	45
	T2Q2	Sandy	40
	T2Q3	Sandy	30
	T2Q4	Sandy	25
	T2Q5	Sandy	5
	T2Q6	Sandy	12
<b>T3</b> (Start 1°19.820' N, 103°34.064' E: End 1°19.846' N, 103°34.055' E)	T3Q1	Sandy	25
	T3Q2	Sandy	30
	T3Q3	Sandy	15
	T3Q4	Sandy	10
	T3Q5	Sandy	7
	T3Q6	Sandy	5
<b>T4</b> (Start 1°19.814' N, 103°34.054' E; End 1°19.841' N, 103°34.044' E)	T4Q1	Sandy	25
	T4Q2	Sandy	20
	T4Q3	Sandy	20
	T4Q4	Sandy	15
	T4Q5	Sandy	10
	T4Q6	Sandy	5
<b>T5</b> (Start 1°19.808' N, 103°34.044' E; End 1°19.835' N, 103°34.036' E)	T5Q1	Sandy	25
	T5Q2	Sandy	25
	T5Q3	Sandy	30
	T5Q4	Sandy	30
	T5Q5	Sandy	20
	T5Q6	Sandy	10
<b>T6</b> (Start 1°19.801' N, 103°34.037' E, End 1°19.827' N, 103°34.029' E)	T6Q1	Sandy	30
	T6Q2	Sandy	12
	T6Q3	Sandy	15
	T6Q4	Sandy	20
	T6Q5	Sandy	25
	T6Q6	Sandy	20



Contn...

Transect	Quadrate	Sediment Type	% seagrass cover
<b>T7</b> (Start 1°19.795' N, 103°34.029' E; End 1°19.821' N, 103°34.020' E)	T7Q1	Sandy	7
	T7Q2	Sandy	50
	T7Q3	Sandy	50
	T7Q4	Sandy	55
	T7Q5	Sandy	30
	T7Q6	Sandy	35
<b>T8</b> (Start 1°19.791' N, 103°34.019' E; End 1°19.815' N, 103°34.008' E)	T8Q1	Sandy	20
	T8Q2	Sandy	20
	T8Q3	Sandy	50
	T8Q4	Sandy	55
	T8Q5	Sandy	30
	T8Q6	Sandy	25
<b>T9</b> (Start 1°19.788' N, 103°34.008' E; End 1°19.812' N, 103°33.995' E)	T9Q1	Sandy	50
	T9Q2	Sandy	0
	T9Q3	Sandy	70
	T9Q4	Sandy	70
	T9Q5	Sandy	70
	T9Q6	Sandy	55
<b>T10</b> (Start 1°19.784' N, 103°33.998' E, End 1°19.806' N, 103°33.985' E)	T10Q1	Sandy	50
	T10Q2	Sandy	0
	T10Q3	Sandy	15
	T10Q4	Sandy	25
	T10Q5	Sandy	20
	T10Q6	Sandy	15
<b>T11</b> (Start 1°19.779' N, 103°33.989' E; End 1°19.802' N, 103°33.974' E)	T11Q1	Sandy	12
	T11Q2	Sandy	50
	T11Q3	Sandy	0
	T11Q4	Sandy	50
	T11Q5	Sandy	40
	T11Q6	Sandy	35
<b>T12</b> (Start 1°19.776' N, 103°33.978' E, End 1°19.799' N, 103°33.964' E)	T12Q1	Sandy	50
	T12Q2	Sandy	0
	T12Q3	Sandy	70
	T12Q4	Sandy	70
	T12Q5	Sandy	55
	T12Q6	Sandy	55



Contn...

Transect	Quadrate	Sediment Type	% seagrass cover
<b>T13</b> (Start 1°19.773' N, 103°33.967' E; End 1°19.797' N, 103°33.954' E)	T13Q1	Sandy	25
	T13Q2	Sandy	20
	T13Q3	Sandy	0
	T13Q4	Sandy	15
	T13Q5	Sandy	10
	T13Q6	Sandy	7
<b>T14</b> (Start 1°19.770' N, 103°33.957' E; End 1°19.795' N, 103°33.948' E)	T14Q1	Sandy	50
	T14Q2	Sandy	0
	T14Q3	Sandy	55
	T14Q4	Sandy	60
	T14Q5	Sandy	55
	T14Q6	Sandy	50
<b>T15</b> (Start 1°19.768' N, 103°33.945' E; End 1°19.794' N, 103°33.935' E)	T15Q1	Sandy	55
	T15Q2	Sandy	50
	T15Q3	Sandy	50
	T15Q4	Sandy	55
	T15Q5	Sandy	60
	T15Q6	Sandy	70
<b>T16</b> (Start 1°19.767' N, 103°33.935' E; End 1°19.791' N, 103°33.927' E)	T16Q1	Sandy	25
	T16Q2	Sandy	0
	T16Q3	Sandy	15
	T16Q4	Sandy	50
	T16Q5	Sandy	55
	T16Q6	Sandy	50
<b>T17</b> (Start 1°19.766' N, 103°33.924' E; End 1°19.792' N, 103°33.917' E)	T17Q1	Sandy	55
	T17Q2	Sandy	7
	T17Q3	Sandy	60
	T17Q4	Sandy	50
	T17Q5	Sandy	55
	T17Q6	Sandy	50



**Table A4.3: Status of Seagrass Health at Tg. Merambong Shoals (T1-T9)**

Transect	Quadrat	Sediment Type	% seagrass cover
<b>T1</b> (Start 1°20.364' N, 103°36.226' E; End 1°20.328' N, 103°36.252' E)	T1Q1	Sanddy	55
	T1Q2	Sanddy	60
	T1Q3	Sanddy	100
	T1Q4	Sanddy	80
	T1Q5	Sanddy	85
	T1Q6	Sanddy	10
	T1Q7	Sanddy	80
	T1Q8	Sanddy	15
	T1Q9	Sanddy	30
<b>T2</b> (Start 1°20.354' N, 103°36.203' E; End 1°20.327' N, 103°36.219' E)	T2Q1	Sanddy	20
	T2Q2	Sanddy	35
	T2Q3	Sanddy	40
	T2Q4	Sanddy	80
	T2Q5	Sanddy	85
	T2Q6	Sanddy	45
	T2Q7	Sanddy	45
<b>T3</b> (Start 1°20.303' N, 103°36.168' E; End 1°20.294' N, 103°36.174' E)	T3Q1	Muddy sand	65
	T3Q2	Muddy sand	70
	T3Q3	Muddy sand	80
<b>T4</b> (Start 1°20.257' N, 103°36.138' E; End 1°20.244' N, 103°36.147' E)	T4Q1	Muddy sand	40
	T4Q2	Muddy sand	45
	T4Q3	Muddy sand	45
	T4Q4	Muddy sand	45
<b>T5</b> (Start 1°20.214' N, 103°36.105' E; End 1°20.198' N, 103°36.120' E)	T5Q1	Muddy sand	20
	T5Q2	Muddy sand	25
	T5Q3	Muddy sand	60
	T5Q4	Muddy sand	70
	T5Q5	Muddy sand	55
<b>T6</b> (Start 1°20.165' N, 103°36.066' E; End 1°20.133' N, 103°36.094' E)	T6Q1	Muddy sand	15
	T6Q2	Muddy sand	60
	T6Q3	Muddy sand	45
	T6Q4	Muddy sand	45
	T6Q5	Muddy sand	30
	T6Q6	Muddy sand	20
	T6Q7	Muddy sand	25
	T6Q8	Muddy sand	25
	T6Q9	Muddy sand	45





Contn...

Transect	Quadrate	Sediment Type	% seagrass cover
<b>T7</b> (Start 1°20.125' N, 103°36.027' E; End 1°20.090' N, 103°36.068' E)	T7Q1	Muddy sand	60
	T7Q2	Muddy sand	70
	T7Q3	Muddy sand	40
	T7Q4	Muddy sand	5
	T7Q5	Muddy sand	0
	T7Q6	Muddy sand	1
	T7Q7	Muddy sand	25
	T7Q8	Muddy sand	50
	T7Q9	Muddy sand	50
	T7Q10	Muddy sand	30
	T7Q11	Muddy sand	35
<b>T8</b> (Start 1°20.091' N, 103°36.014' E; End 1°20.049' N, 103°36.046' E)	T8Q1	Muddy sand	8
	T8Q2	Muddy sand	12
	T8Q3	Muddy sand	10
	T8Q4	Muddy sand	8
	T8Q5	Muddy sand	40
	T8Q6	Muddy sand	40
	T8Q7	Muddy sand	70
	T8Q8	Muddy sand	55
	T8Q9	Muddy sand	45
	T8Q10	Muddy sand	70
	T8Q11	Muddy sand	65
<b>T9</b> (Start 1°20.037' N, 103°35.993' E; End 1°19.999' N, 103°36.021' E)	T9Q1	Muddy sand	10
	T9Q2	Muddy sand	12
	T9Q3	Muddy sand	15
	T9Q4	Muddy sand	8
	T9Q5	Muddy sand	8
	T9Q6	Muddy sand	8
	T9Q7	Muddy sand	5
	T9Q8	Muddy sand	20
	T9Q9	Muddy sand	25
	T9Q10	Muddy sand	20
<b>T10</b> (Start 1°19.948' N, 103°35.948' E; End 1°19.936' N, 103°35.959' E)	T10Q1	Muddy sand	70
	T10Q2	Muddy sand	45
	T10Q3	Muddy sand	10
	T10Q4	Muddy sand	35



## **APPENDIX 6: FISH CAUGHT AT THE STUDY AREA**



## APPENDIX 6: FISH CAUGHT AT THE STUDY AREA

Table A6.1: List of Fish Caught at Study Area during Northeast Monsoon

Station	Family	Local Name	Scientific Name	No.	Total Length (cm)	Weight (g)
F1	Leiognathidae	Kikek labu	<i>Leiognathus equulus</i>	23	8.7	10
					8.8	10
					8.9	10
					8.9	10
					9.0	5
					9.0	10
					9.1	10
					9.2	10
					9.2	10
					9.3	15
					9.4	15
					9.5	10
					9.5	15
					9.5	10
					9.6	10
					9.6	15
					9.7	15
					10.0	15
					10.0	15
	10.2	15				
10.2	15					
10.5	20					
13.2	45					
F1	Leiognathidae	Kikek	<i>Leiognathus brevirostris</i>	3	9.9	15
					9.5	15
					10.5	15
F1	Dasyatidae	Pari beting	<i>Himantura walga</i>	1	20.3	150
	Haemulidae	Gerut-Gerut	<i>Pomadasys maculatus</i>	1	12.9	45
	Triacanthidae	Sebarat	<i>Triacanthus nieuhofii</i>	1	8.9	5
	F2	Clupeidae	Tamban	<i>Amblygaster</i> sp.	1	17.3
F6	Tetraodontidae	Buntal pisang	<i>Lagocephalus lunaris</i>	2	13.4	50
					16.4	90
F6	Belonidae	Todak	<i>Strongylura</i> sp.	1	53.0	260



F6	Leiognathidae	Kikek	<i>Leiognathus brevirostris</i>	1	8.6	5
	Monacanthidae	Kosok	<i>Monacanthus chinensis</i>	1	9.2	25
	Portunidae	Ketam renjong	<i>Portunus pelagicus</i>	1	12.5	80
		Ketam air	<i>Charybdis sp.</i>	1	5.6	35
F7	Carangidae	Selar	<i>Atule sp.</i>	2	16.3	50
					16.6	50
	Monacanthidae	Kosok	<i>Monacanthus chinensis</i>	1	12.2	35
F8	Mullidae	Biji nangka	<i>Upeneus sp.</i>	1	12.9	30
	Chaetodontidae	Ikan karang	<i>Parachaetodon ocellatus</i>	1	9.0	25
<b>Total</b>				<b>42</b>	<b>-</b>	<b>1,340</b>



**Table A6.2: List of Fish Caught at Study Area during Southwest Monsoon**

Station	Family	Local Name	Scientific Name	No.	Total Length (cm)	Weight (g)
F1	Synodontidae	Bulus	<i>Harpadon nehereus</i>	9	20.5	35
					17.1	30
					19.1	35
					17.6	30
					16.7	25
					18.4	35
					18.9	35
					16.6	25
					16.2	20
	Engraulidae	Tempurung	<i>Setipinna</i> sp.	5	13.5	15
					12.1	10
					13.7	15
					11.6	7
					12.0	5
	Polynemidae	Senangin	<i>Polydactylus sextarius</i>	1	17.2	45
	Plotosidae	Usat	<i>Plotosus lineatus</i>	1	10.1	5
	Trichiuridae	Timah	<i>Eupleurogrammus glossodon</i>	1	38.2	20
	Triacanthidae	Sebarat	<i>Triacanthus nieuhofii</i>	1	8.4	3
	Stromateidae	Bawal	<i>Pampus</i> sp.	1	5.8	2
	Gerreidae	Kapas	<i>Gerres</i> sp.	1	9.2	10
Leiognathidae	Kikek	<i>Leiognathus daura</i>	1	10.8	15	
Leiognathidae	Kapak	<i>Secutor insidiator</i>	1	5.6	3	
Penaeidae	Udang kibi licin	<i>Penaeus</i> sp.	3	11.8	10	
				11.7	10	
				11.5	5	
F2	Leiognathidae	Kapak	<i>Secutor insidiator</i>	9	9.9	10
					9.7	7
					9.3	10
					9.3	7
					9.3	10
					9.2	7
					9.1	7
					9.1	7
					9.1	7



F2	Leiognathidae	Kapak	<i>Secutor insidiator</i>	25	9.1	7
					9.0	7
					9.0	7
					9.0	7
					9.0	7
					9.0	7
					9.0	7
					9.0	7
					8.9	7
					8.9	10
					8.9	7
					8.9	7
					8.9	7
					8.8	5
					8.7	5
					8.7	5
					8.7	5
					8.7	7
					8.7	5
					8.6	5
8.6	5					
8.6	5					
8.5	5					
8.5	5					
8.5	5					
	Leiognathidae	Kikek	<i>Leiognathus daura</i>	1	10.9	25
	Synodontidae	Bulus	<i>Harpadon nehereus</i>	1	18.2	30
F3	Leiognathidae	Kapak	<i>Secutor sp.</i>	1	9.2	5
	Dasyatidae	Pari	<i>Himantura gerrardi</i>	1	22.0	270
	Portunidae	Ketam renjong	<i>Portunus pelagicus</i>	1	9.1	60
F4	Leiognathidae	Kapak	<i>Secutor insidiator</i>	8	9.2	5
					9.1	5
					9.0	5
					8.8	3
					8.6	3
					8.4	3
					8.1	3
8.0	3					



F4	Leiognathidae	Kikek	<i>Leiognathus daura</i>	1	12.5	25
	Ariidae	Duri kunyit	<i>Arius maculatus</i>	3	17.4	55
					16.2	40
					22.2	155
	Ariidae	Duri	<i>Arius sp.</i>	1	19.4	60
	Gerreidae	Kapas	<i>Gerres sp.</i>	1	9.8	10
Penaeidae	Udang putih	<i>Penaeus merguensis</i>	1	15.8	25	
F5	Dasyatidae	Pari beting	<i>Himantura walga</i>	2	20.0	220
					8.0	70
	Monacanthidae	Kosok	<i>Monacanthus chinensis</i>	1	7.5	10
	Monacanthidae	Kosok	<i>Acreichthys tomentosus</i>	1	8.6	15
	Limulidae	Belangkas	<i>Tachypleus gigas</i>	2	34.3	320
					33.5	300
Portunidae	Ketam renjong	<i>Portunus pelagicus</i>	1	18.2	75	
F6	Leiognathidae	Kapak	<i>Secutor insidiator</i>	24	10.2	10
					9.6	7
					9.5	7
					9.5	7
					9.5	7
					9.4	7
					9.4	7
					9.4	7
					9.4	7
					9.4	7
					9.2	7
					9.2	7
					9.1	7
					9.1	7
					9.0	7
					9.0	7
					9.0	7
					9.0	5
					8.9	5
					8.9	5
8.9	5					
8.8	5					
8.8	5					
8.8	5					



F6	Leiognathidae	Kapak	<i>Secutor insidiator</i>	2	8.8	5
					8.8	5
	Leiognathidae	Kikek	<i>Leiognathus brevirostris</i>	1	10.5	7
	Scombridae	Talang	<i>Scombroides commersonianus</i>	1	23.6	70
	Carangidae	Selar kuning	<i>Selaroides leptolepis</i>	1	14.2	40
	Clupeidae	Tamban	<i>Sardinella sp.</i>	1	13.5	15
	Portunidae	Ketam renjong	<i>Portunus pelagicus</i>	1	10.3	60
F7	Monacanthidae	Kosok	<i>Monacanthus chinensis</i>	6	16.8	70
					14.5	50
					12.6	30
					10.2	10
					9.6	15
					9	10
	Triacanthidae	Sebarat	<i>Triacanthus nieuhofii</i>	1	19.7	100
	Paralichthyidae	Sebelah	<i>Pseudorhombus sp.</i>	1	16.5	40
	Portunidae	Ketam renjong	<i>Portunus pelagicus</i>	1	11.9	115
Portunidae	Ketam	<i>Portunus sp.</i>	1	4.2	10	
F8	Monacanthidae	Kosok	<i>Monacanthus chinensis</i>	1	12.6	35
	Monacanthidae	Kosok	<i>Acreichthys tomentosus</i>	1	8.9	15
	Pomacentridae	Ikan karang	<i>Neoglyphidodon melas</i>	1	7.8	7
	Plotosidae	Usat	<i>Plotosus lineatus</i>	1	22.5	80
	Clupeidae	Tamban	<i>Herklotsichthys dispilonotus</i>	1	10.6	10
F9LT	Triacanthidae	Sebarat	<i>Pseudotriacanthus sp.</i>	1	10.0	20
	Penaeidae	Udang tionghei	<i>Metapenaeus brevicornis</i>	1	11.6	10
	Penaeidae	Udang peh chi	<i>Fenneropenaeus indicus</i>	2	13.0	15
					14.1	20
F9HT	Aridae	Bedukang	<i>Arius sagor</i>	1	26.8	190
	Penaeidae	Udang putih	<i>Penaeus merguensis</i>	2	9.0	5
					9.2	5
	Penaeidae	Udang tionghei	<i>Metapenaeus brevicornis</i>	3	10.1	10
					11.5	10
					13.6	15
	Penaeidae	Udang pasir	<i>Metapenaeus sp.</i>	7	8.4	5
					8.7	5
					8.7	5
					8.8	5
8.9					5	
9.3					5	
					9.3	5





F9HT	Penaeidae	Udang pasir	<i>Metapenaeus sp.</i>	14	9.6	5
					9.8	5
					9.8	5
					9.8	5
					10.2	5
					10.2	5
					10.2	5
					10.4	5
					10.5	5
					10.5	5
					11.3	5
					11.5	5
					11.8	5
					11.8	5
F10LT	Engraulidae	Bilis	<i>Stolephorus insularis</i>	1	7.6	5
	Plotosidae	Usat	<i>Plotosus canius</i>	1	30.0	150
	Penaeidae	Udang putih	<i>Penaeus merguensis</i>	1	8.7	5
	Penaeidae	Udang pasir	<i>Metapenaeus sp.</i>	1	8.8	5
	Penaeidae	Udang tionghei	<i>Metapenaeus brevicornis</i>	2	11.4	10
F10HT	Polynemidae	Senangin	<i>Eleutheronemus tetradactylum</i>	4	14.4	20
					15.4	35
					17.4	45
					18.6	50
	Tetraodontidae	Buntal Koreng	<i>Tetraodon nigroviridis</i>	7	11.3	50
					11.3	55
					12.6	80
					12.9	70
					13.4	110
					13.7	100
	Engraulidae	Tempurung	<i>Thryssa kammalensis</i>	7	9.4	5
					9.5	5
					9.6	5
					9.7	5
					10.1	10
					10.6	10
					10.9	10
	Engraulidae	Bilis	<i>Stolephorus insularis</i>	3	8.8	5
					8.7	5
					9.2	5
Engraulidae	Tempurung	<i>Thryssa hamiltonii</i>	1	10.4	10	
Ariidae	Bedukang	<i>Arius sagor</i>	1	25.6	165	
Penaeidae	Udang putih	<i>Penaeus merguensis</i>	1	8.4	3	
<b>Total</b>				<b>193</b>	<b>-</b>	<b>4,980</b>



**Table A6.3: List of Fish Caught at Study Area during Intermonsoon**

Station	Family	Local Name	Scientific Name	No.	Total Length (cm)	Weight (g)
F1	Leiognathidae	Kapak	<i>Secutor ruconius</i>	1	8.0	5
	Penaeidae	Udang putih	<i>Penaeus merguensis</i>	2	13.1	10
15.0					25	
F2	Leiognathidae	Kapak	<i>Secutor ruconius</i>	2	8.6	5
					9.0	5
	Leiognathidae	Kikek	<i>Leiognathus splendens</i>	2	11.0	10
					11.2	10
	Leiognathidae	Kikek labu	<i>Leiognathus equulus</i>	14	9.4	10
					10.4	10
					10.5	15
					11.0	25
					11.2	15
					11.4	25
					11.6	25
					11.6	25
					11.8	25
					12.0	25
					12.4	30
					12.5	30
	12.6	30				
13.0	30					
Ariidae	Duri kunyit	<i>Arius caelatus</i>	1	14.0	25	
Ariidae	Duri pulut	<i>Arius thalassinus</i>	1	34.0	340	
Polynemidae	Menangin buih	<i>Polynemus sextarius</i>	1	16.5	50	
Tetraodontidae	Buntal pisang	<i>Lagocephalus lunaris</i>	1	12.9	45	
Penaeidae	Udang putih	<i>Penaeus merguensis</i>	1	14.6	20	
Sepiidae	Sotong katak	<i>Sepia sp.</i>	1	5.7	20	
F3	Leiognathidae	Kikek	<i>Leiognathus splendens</i>	11	6.5	5
					8.6	5
					8.7	5
					8.8	5
					9.0	10
					9.0	10
					9.2	10
					9.2	10
					9.5	10
					9.5	10
9.9	10					



F3	Leiognathidae	Kikek	<i>Leiognathus splendens</i>	12	10.0	10	
					10.5	15	
					10.5	15	
					10.5	15	
					10.6	15	
					11.0	15	
					11.0	15	
					11.2	15	
					11.7	25	
					12.0	25	
					13.0	50	
					13.0	35	
	Leiognathidae	Kapak		<i>Secutor ruconius</i>	9	7.2	5
						8.1	5
						8.2	5
						8.3	5
						8.5	10
						8.6	10
						8.9	10
						9.0	10
Ariidae	Duri kunyit		<i>Arius verosus</i>	6	16.8	50	
					17.2	50	
					19.0	60	
					19.9	80	
					20.0	80	
					22.7	110	
Ariidae	Duri pulut		<i>Arius thalassinus</i>	3	22.0	90	
					22.0	90	
					25.4	150	
Ariidae	Duri		<i>Arius sp.</i>	2	20.0	80	
					23.0	120	
Haemulidae	Gerut-gerut		<i>Pomadasys maculatus</i>	1	15.5	60	
Mullidae	Biji angka		<i>Upeneus sulphureus</i>	1	12.5	25	
Squillidae	Udang lipan		<i>Oratosquilla sp.</i>	1	11.1	10	
Scyllaridae	Udang selipar		<i>Thenus orientalis</i>	1	17.5	90	
Portunidae	Ketam renjong		<i>Portunus armatus</i>	1	9.0	45	
F4	Ariidae	Duri pulut		<i>Arius thalassinus</i>	2	28.0	230
						33.0	270
	Ariidae	Duri kunyit		<i>Arius caelatus</i>	1	6.0	35
	Sciaenidae	Gelama		<i>Johnius belangerii</i>	1	13.5	50
	Polynemidae	Menangin buih		<i>Polynemus sextarius</i>	1	19.0	70



F4	Clupeidae	Beliak mata	<i>Opisthopterus tardoore</i>	1	14.5	15
	Triacanthidae	Sebarat	<i>Pseudotriacanthus sp.</i>	1	11.5	20
	Mullidae	Biji nangka	<i>Upeneus sulphureus</i>	1	14.3	45
	Penaeidae	Udang putih	<i>Penaeus merguensis</i>	3	15.3	25
					15.5	25
					15.8	25
Squillidae	Udang lipan	<i>Oratosquilla sp.</i>	2	9.4	5	
				9.4	5	
F5	Plotosidae	Usat	<i>Plotosus lineatus</i>	34	16.5	40
					17.0	45
					17.0	45
					17.0	45
					17.5	45
					17.6	45
					17.9	45
					18.0	45
					18.0	45
					18.0	45
					18.0	45
					18.3	45
					18.4	55
					18.5	50
					18.5	50
					18.5	45
					18.6	55
					18.8	50
					19.0	55
					19.3	60
					19.3	50
					19.3	55
					19.5	60
					19.7	60
19.7	55					
20.0	55					
20.0	65					
20.0	70					
20.0	70					
20.0	70					
20.4	65					
20.5	65					
20.5	95					
20.6	65					



F5	Plotosidae	Usat	<i>Plotosus lineatus</i>	20	20.7	70
					20.7	70
					20.7	70
					20.7	70
					21.0	75
					21.0	75
					21.0	75
					21.0	75
					21.0	75
					21.2	75
					21.4	75
					21.5	90
					22.0	95
					22.0	80
					22.0	85
					22.3	95
					22.5	85
					23.2	100
					23.6	105
24.0	100					
Clupeidae	Selangat	<i>Anodontastoma chacunda</i>	2	14.5	50	
				15.5	50	
Dasyatidae	Pari beting	<i>Himantura walga</i>	2	19.0	250	
				18.0	160	
Triacanthidae	Sebarat	<i>Pseudotriacanthus sp.</i>	1	11.5	45	
Gerreidae	Kapas	<i>Gerres sp.</i>	1	14.0	25	
Sepiidae	Sotong katak	<i>Sepia sp.</i>	1	12.0	150	
Portunidae	Ketam renjong	<i>Portunus reticulatus</i>	1	14.3	220	
F6	Monacanthidae	Kosok	<i>Monacanthus chinensis</i>	2	16.5	50
					16.5	60
	Leiognathidae	Kapak	<i>Secutor ruconius</i>	2	9.3	5
					9.6	5
	Siganidae	Dengkis	<i>Siganus javus</i>	1	13.0	30
	Tetraodontidae	Buntal	<i>Takifugu oblongus</i>	1	13.7	60
	Portunidae	Ketam renjong	<i>Portunus armatus</i>	2	13.5	150
13.5					150	
Portunidae	Ketam	<i>Thalamita crenata</i>	1	6.6	60	
F7	Triacanthidae	Sebarat	<i>Pseudotriacanthus sp.</i>	1	11.1	15
	Portunidae	Ketam renjong	<i>Portunus armatus</i>	3	10.5	80
					11.6	110
					12.6	120
Portunidae	Ketam renjong	<i>Portunus reticulatus</i>	1	10.5	95	



F8	Monacanthidae	Kosok	<i>Monacanthus chinensis</i>	2	9.8	20
					10.5	25
	Portunidae	Ketam	<i>Charybdis helleri</i>	1	7.8	70
<b>Total</b>				<b>167</b>	<b>-</b>	<b>8,860</b>