

Species composition of push net and larvae study of Bongo net

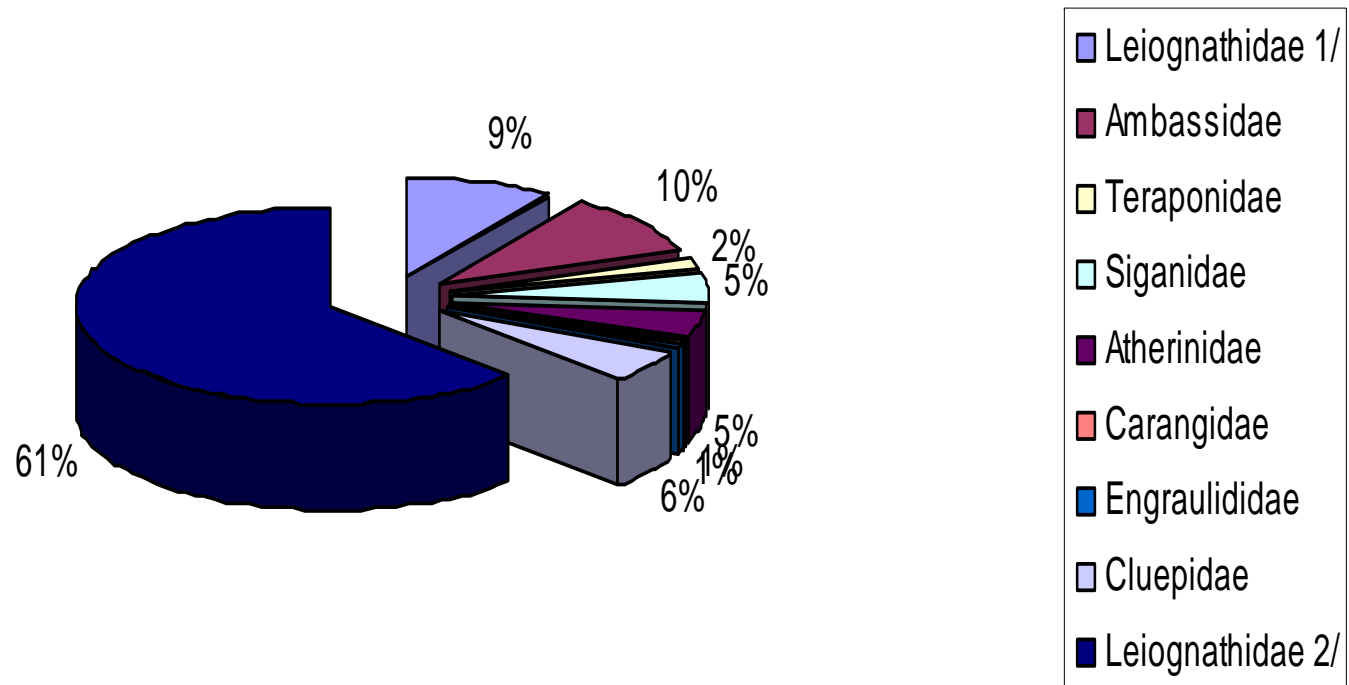
**Group B3
(Husin/Haris)**



Species composition of fish juvenile caught in Push net

Fin fish		Standard length (mm)				
Families	N	Aver	Max	Min	Stdev	
1	Leiognathinae ^{1/}	16	48.19	64	39	4.82
2	Ambassidae	17	39.94	47	35	4.25
3	Teraponidae	3	41.67	45	38	3.51
4	Siganidae	8	68.63	74	61	5.24
5	Antherinidae	8	56.13	60	52	2.64
6	Carangidae	1	37	37	37	-
7	Engraulididae	1	80	80	80	-
8	Cluepidae	10	56.10	62	47	5.02
9	Leiognathidae ^{2/}	105	40.54	54	24	4.31
Total		169	N			

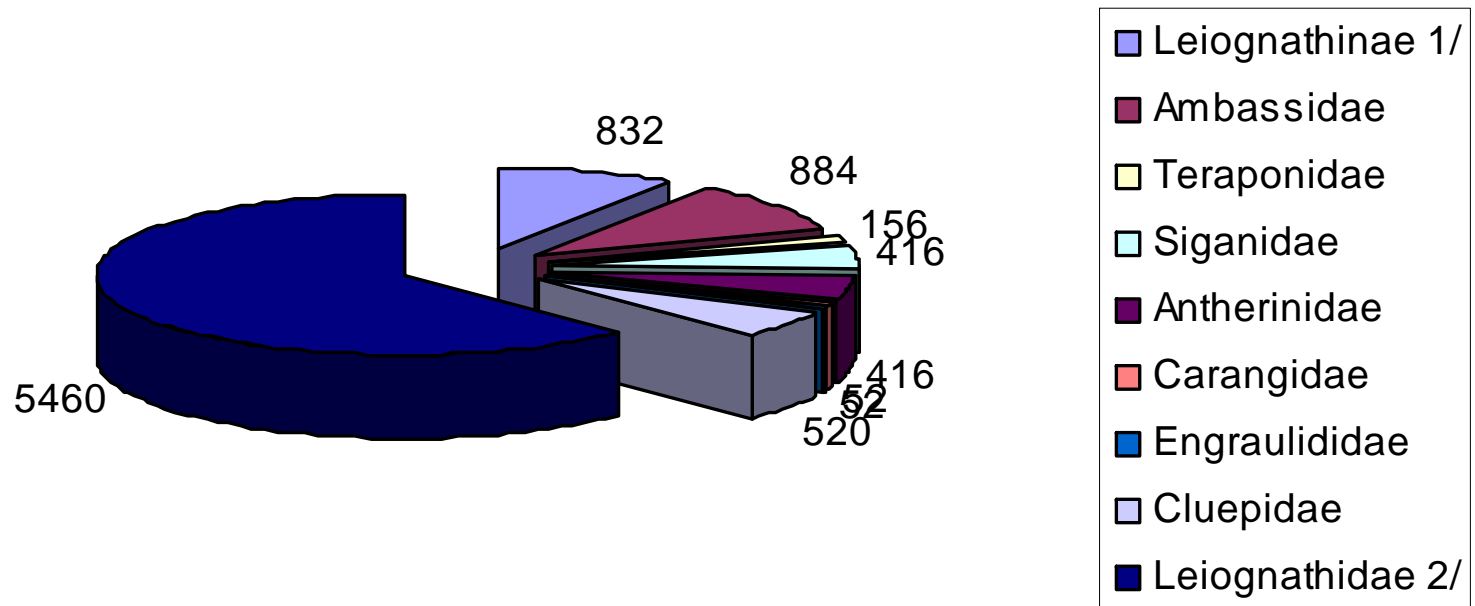
Species composition of fin fish caught
by push net (percentage /kg sub-sample)



Leiognathidae 1/ = *Leiognathus splendens*

2/= *L. equus*

Species Fish composition caught by push net (Ind. no/haul/hr)



- **Standardization of collected fish larvae or fish egg;**
- $T=1000t/V$
- Where;
- $T=$ no of fish larvae or eggs/1000 m³ sea water
- $t=$ no of fish larvae or eggs
- $V=$ sea water volume flow through the plankton net (m³)

- Calculated values
- $V = 156 \text{ m}^3$
- $t = 378$ total fish larvae and 403 fish eggs

- **Density of fish larvae and eggs are;**
- T (fish larvae)= 2408/1000 m³ sea water
- T (fish egg) =2567/1000 m³ sea water

Density of fish larvae families

	Families	Density (Ind no/1000m ³)
1	Engraulididae	1682
2	Callionymidae	134
3	Carangidae	102
4	Gobiidae	96
5	Scorpaenidae	25
6	Bothidae	25
7	Cynoglossidae	25
8	Leiognathidae	19
9	Nemipteridae	13
10	Scieanidae	13
11	Labridae	13
12	Silloganidae	13
13	Pomacentridae	6
14	Apogonidae	6
15	Unknown	236

Future plan for fish larvae study in Malaysia

- Since 1999, several larvae studies were incorporated with the '*Oceanography study and Acoustic survey*' in Strait of Malacca and East Coast of Peninsular Malaysia.
- A five years plan (2006-2010) for 'fish larvae study' are /would be conducted in the Strait of Malacca, East coast of Peninsular Malaysia, Sabah and Sarawak.
- An intensive study on 'fish larvae' would be conducted in the estuary of Matang brackish-water mangrove ecosystem.

A photograph of a boat on the water at sunset. The sky is dark with a bright orange and yellow glow from the setting sun. The boat is silhouetted against the water and sky. The text "Thank You" is overlaid in the center in a bright yellow font.

Thank You