SOUTH EAST ASIAN FISHERIES DEVELOPMENT CENTER (SEAFDEC)

REGIONAL TRAINING WORKSHOP ON LARVAL FISH IDENTIFICATION AND FISH EARLY LIFE HISTORY SCIENCE

WORK GROUP REPORT

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1. Introduction

- ***Objectives:***

- ✓ training on fish early life history identification…
- ✓ to standardize ichthyoplankton survey in ASEAN…
- ✓ to establish the network…
- ✓ This study: demonstrate the sampling method and practice to identify…

2. Methodology

- ***Fish juvenile sampling:***

✓ Pushnet (commercial fishing boat, gear used)

✓ Time: night time

✓ Place: Chaoprya river, river outlet…

✓ Duration: 01 hour

✓ Catch: sorted and weighted by species and commercial group

✓ Sub sample was taken, rasing factor used…

2. Methodology

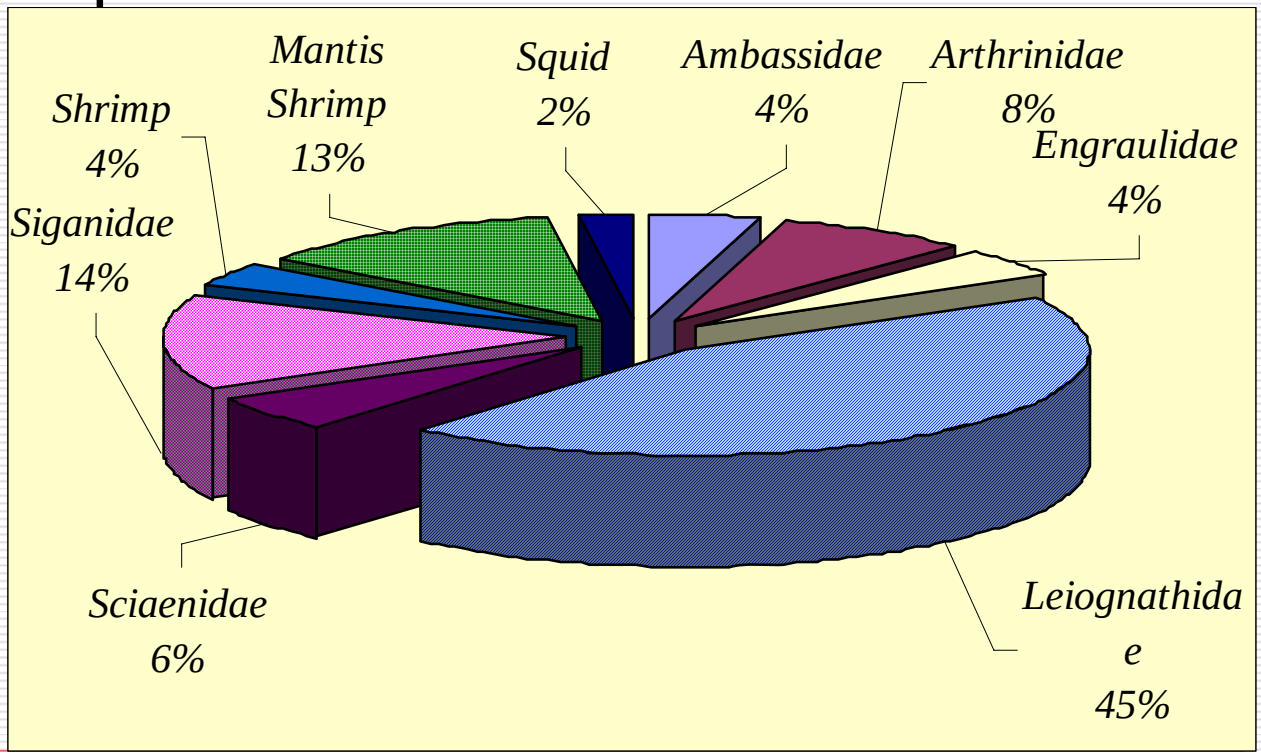
- ***Eggs and larvae sampling***
  - ✓ M.V.SEAFDEC2…
  - ✓ Ko Lan area…
  - ✓ Bongo net…
  - ✓ Day time…
  - ✓ Calibration (5 operation)…
  - ✓ Sampling duration 10s…
  - ✓ Storage: 10% formaline

3. Result

3.1. Fish juveniles

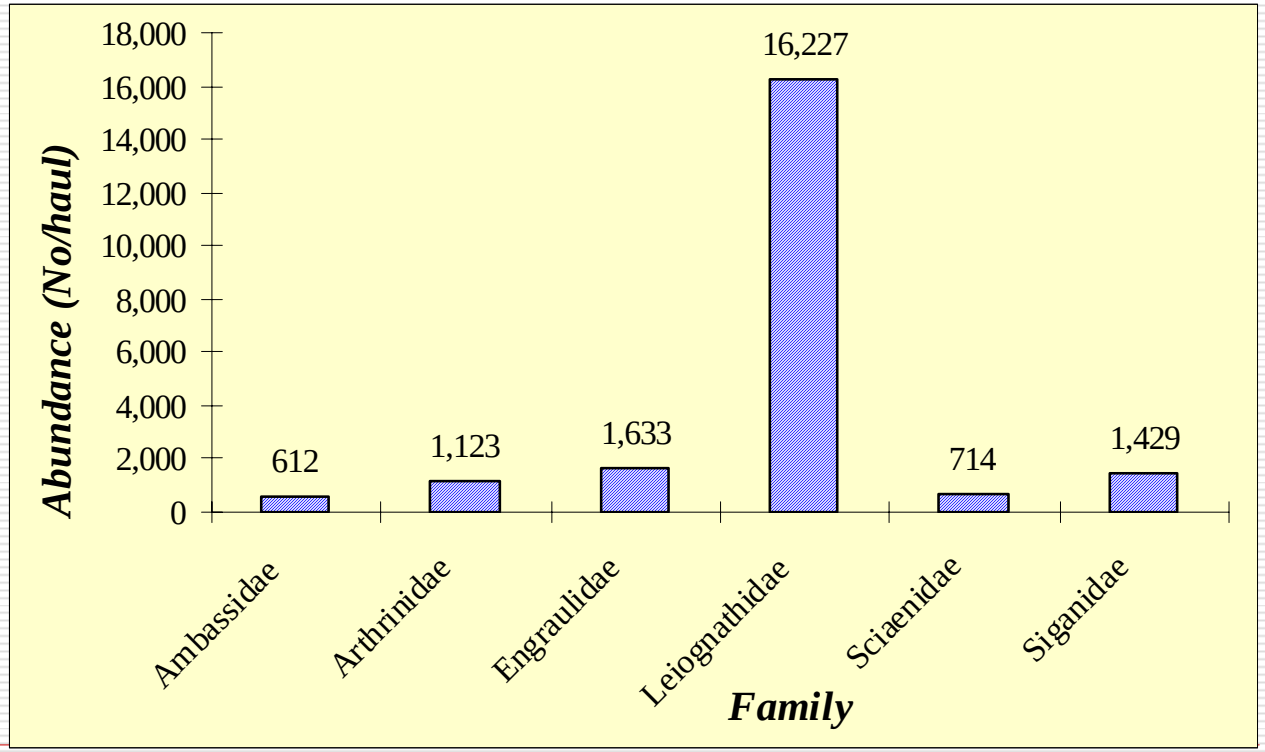
- Species composition

-totally,91.5kg



3. Result

- Relative abundance (N^0/haul)



3. Result

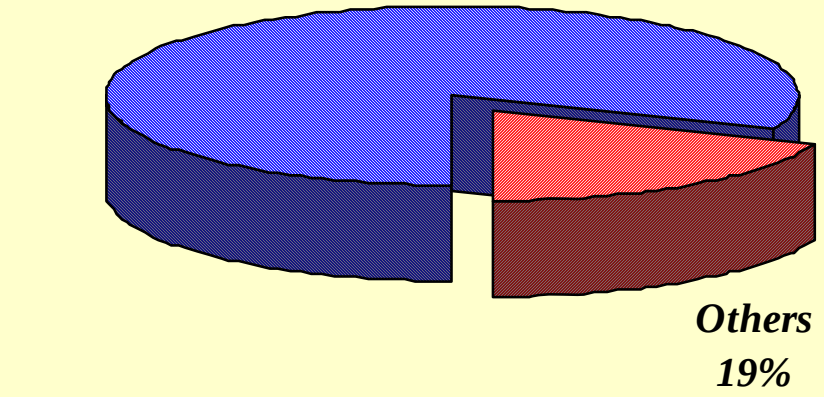
3.2. Fish eggs

- Fish egg density (eggs /1000m^3) …

Density:

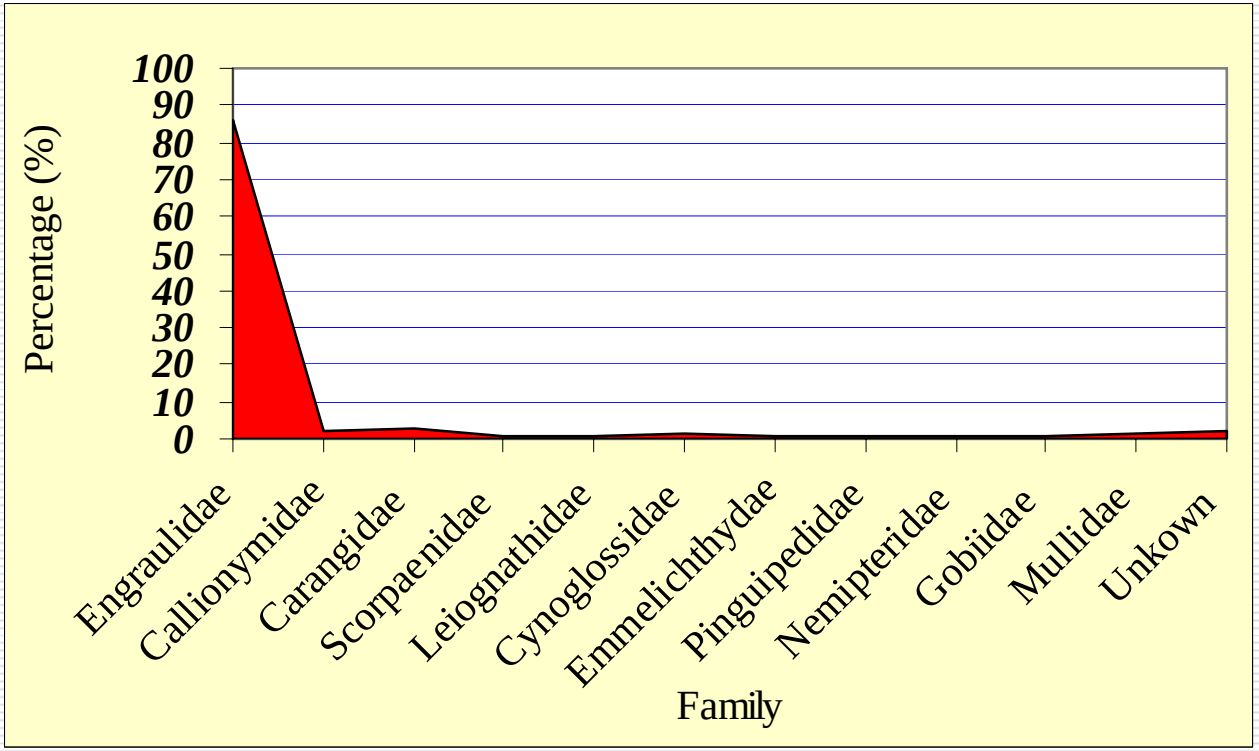
Engraulidae: 3,128 eggs/1000m^3

Others: 723 eggs/1000m^3



3. Result

3.2. Fish larvae



3. Result

- Fish larval density (individuals per 1000m^3)…

Rank	*Family*	*No Ind.*	*Water Vol. (m^3)*	*Density (Ind/1000m^3)*
1	***Engraulidae***	202	176	**1,151**
2	***Carangidae***	7	176	**40**
3	***Callionymidae***	5	176	**28**
4	***Mullidae***	3	176	**17**
5	***Cynoglossidae***	3	176	**17**
6	***Scorpaenidae***	2	176	**11**
7	***Nemipteridae***	2	176	**11**
8	***Leiognathidae***	2	176	**11**
9	***Pinguipedidae***	1	176	**6**
10	***Gobiidae***	1	176	**6**
11	***Emmelichthydae***	1	176	**6**
12	***Unkown***	5	176	**28**

4. Discussion

- ***Challenges***
  - Non experience (location, specialization)…
  - Survey time (duration), area limited…
  - Difficulties, e.g. guide for taxonomy…
  - New approach….???
- ***Needs***
  - Demand on further study, research, exchange…
  - Governmental consideration…

Thanks for ur kind attention!!!