

# ความหลากหลายของชนิดปลาน้ำจืดในแม่น้ำมูล ในเขตจังหวัดนครราชสีมา และบุรีรัมย์

## Species Diversity of Freshwater Fish in Mun River, Nakhon Ratchasima and Buriram Provinces

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### บทคัดย่อ

จากการศึกษาความหลากหลายของชนิดและการแพร่กระจายของปลาน้ำจืดในแม่น้ำมูล ในเขตจังหวัดนครราชสีมาและบุรีรัมย์ ในระหว่างเดือนตุลาคม พ.ศ. 2554 ถึงเดือนกันยายน 2555 พบปลาน้ำจืด จำนวน 24 วงศ์ 64 สกุล 107 ชนิด คือ *Chitala ornata*, *Notopterus notopterus*, *Clupeichthys aesapnensis*, *Paralaubuca typus*, *P. riveroi*, *Oxygaster pointoni*, *Parachela oxygastroides*, *P. siamensis*, *P. maculicauda*, *Esomus metallicus*, *Rasbora borapetensis*, *R. myersi*, *R. tornieri*, *R. spilocerca*, *R. trilineata*, *Thynnichthys thynnoides*, *Cyclocheilichthys enoplos*, *C. furcatus*, *C. apogon*, *C. lagleri*, *C. repasson*, *Mystacoleucus argenteus*, *M. ectypus*, *Puntioplites falcifer*, *P. proctozysron*, *Barbodes altus*, *B. gonionotus*, *B. schwanenfeldi*, *Hypsibarbus lagleri*, *H. wetmorei*, *Discherodontus ashmeadi*, *Puntius brevis*, *Systemus orphoides*, *S. partipentazona*, *Osteochilus hasselti*, *O. melanopleura*, *O. microcephalus*, *O. waandersi*, *Crossocheilus reticulatus*, *C. siamensis*, *Epalzeorhynchus frenatum*, *Labeo rohita*, *Morulius chrysophekadian*, *Hampala dispar*, *H. macrolepidota*, *Henicorhynchus ornatipinnis*, *H. lobatus*, *H. siamensis*, *Labiobarbus siamensis*, *Acanthopsis thiemmethdi*, *Yasuhikotakia modesta*, *Y. morletii*, *Syncrossus helodes*, *Lepidocephalichthys hasselti*, *Pangio anguillaris*, *Pseudomystus siamensis*, *Heterobagrus bocourti*, *Mystus singaringan*, *M. mysticetus*, *M. atrifasciatus*, *Hemibagrus filamentus*, *H. wickioides*, *Belodontichthys dinema*, *Kryptopterus cheveyi*, *K. geminus*, *Micronema apogon*, *M. bleekeri*, *Ompok krattensis*, *Wallago attu*, *Lrides longibarbis*, *Pangasianodon gigas*, *Pangasius conchophilus*, *P. hypophthalmus*, *P. larnaudi*, *P. macronema*, *P.*

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*pleurotaenia*, *Helicophagus leptorhynchus*, *Bagarius yarrelli*, *Glyptothorax lampris*, *Akysis varius*, *Clarias batrachus*, *C. macrocephalus*, *Xenantodon cancila*, *Dermogynys siamensis*, *Monopterus albus*, *Macrognathus siamensis*, *M. semiocellatus*, *Mastacembelus armatus*, *Parambassis siamensis*, *Pristolepis fasciatus*, *Nandus oxyrhynchus*, *Oreochromis niloticus*, *Oxyeleotris marmoratus*, *Anabas testudineus*, *Trichopsis pumila*, *T. vittatus*, *Trichogaster trichopterus*, *T. pectoralis*, *Betta smaragdina*, *Channa gachua*, *C. lucius*, *C. micropeltes*, *C. striata*, *Euryglossa harmandi*, *Monotreta leiurus*, *M. suvatti* และ *M. fangi* ปลาส่วนใหญ่มีการแพร่กระจายอย่างกว้างขวาง ปลาบางชนิดพบในบางบริเวณ ในขณะที่ปลาบางชนิดพบน้อยมาก เช่น *Puntioplites falcifer*, *Barbodes schwanenfeldi*, *Hypsibarbus wetmorei*, *Discherodontus ashmeadi*, *Crossocheilus reticulatus*, *Epalzeorhynchos frenatum* และ *Belodontichthys dinema*

**คำสำคัญ:** ความหลากหลายของชนิด ปลาน้ำจืด แม่น้ำมูล

## Abstract

Species diversity and distribution of freshwater fish were studied in Mun River, Nakhon Ratchasima and Buriram Provinces, Northeast Thailand, during October 2011 to September 2012. Freshwater fish were found 107 species 64 genera in 24 families as *Chitala ornata*, *Notopterus notopterus*, *Clupeichthys aesapnensis*, *Paralaubuca typus*, *P. riveroi*, *Oxygaster pointoni*, *Parachela oxygastroides*, *P. siamensis*, *P. maculicauda*, *Esomus metallicus*, *Rasbora borapetensis*, *R. myersi*, *R. tomieri*, *R. spilocerca*, *R. trilineata*, *Thynnichthys thynnoides*, *Cyclocheilichthys enoplos*, *C. furcatus*, *C. apogon*, *C. lagleri*, *C. repasson*, *Mystacoleucus argenteus*, *M. ectypus*, *Puntioplites falcifer*, *P. proctozysron*, *Barbodes altus*, *B. gonionotus*, *B. schwanenfeldi*, *Hypsibarbus lagleri*, *H. wetmorei*, *Discherodontus ashmeadi*, *Puntius brevis*, *Systomus orphoides*, *S. partipentazona*, *Osteochilus hasselti*, *O. melanopleura*, *O. microcephalus*, *O. waandersi*, *Crossocheilus reticulatus*, *C. siamensis*, *Epalzeorhynchos frenatum*, *Labeo rohita*, *Morulius chrysophekadian*, *Hampala dispar*, *H. macrolepidota*, *Henicorhynchus ornatipectus*, *H. lobatus*, *H. siamensis*, *Labiobarbus siamensis*, *Acanthopsis thiemmethdi*, *Yasuhikotakia modesta*, *Y. morleti*, *Syncrossus helodes*, *Lepidocephalichthys hasselti*, *Pangio anguillaris*, *Pseudomystus siamensis*, *Heterobagrus bocourti*, *Mystus singaringan*, *M. mysticetus*, *M. atrifasciatus*, *Hemibagrus filamentus*, *H. wickioides*, *Belodontichthys dinema*, *Kryptopterus cheveyi*, *K. geminus*, *Micronema apogon*, *M. bleekeri*, *Ompok krattensis*, *Wallago attu*, *Lalates longibarbis*, *Pangasianodon gigas*, *Pangasius conchophilus*, *P. hypophthalmus*, *P. larnaudi*, *P. macronema*, *P. pleurotaenia*, *Helicophagus leptorhynchus*, *Bagarius yarrelli*, *Glyptothorax lampris*, *Akysis varius*, *Clarias batrachus*, *C. macrocephalus*, *Xenantodon cancila*, *Dermogynys siamensis*, *Monopterus albus*, *Macrognathus siamensis*, *M. semiocellatus*, *Mastacembelus armatus*, *Parambassis siamensis*, *Pristolepis fasciatus*, *Nandus oxyrhynchus*, *Oreochromis niloticus*, *Oxyeleotris marmoratus*, *Anabas testudineus*, *Trichopsis pumila*, *T. vittatus*, *Trichogaster trichopterus*, *T. pectoralis*, *Betta smaragdina*, *Channa gachua*, *C. lucius*, *C. micropeltes*,

*C. striata*, *Euryglossa harmandi*, *Monotreta leiurus*, *M. suvatti* and *M. fangi*. The most species of fish were abundant and widely distributed in Mun River. Some species were found in some areas. Whereas, *Puntioplites falcifer*, *Barbodes schwanenfeldi*, *Hypsibarbus wetmorei*, *Discherodontus ashmeadi*, *Crossocheilus reticulatus*, *Epalzeorhynchus frenatum*, and *Belodontichthys dinema* were rarely found.

**Keyword:** species diversity, freshwater fish, Mun River

## Introduction

Mun River is the important river in Northeast Thailand and rises in Khao Yai National Park. It is 630 km long, and flows through Nakhon Ratchasima, Buriram, Surin, Srisaket until joins to Mekong River in Ubon Ratchathani Province. Freshwater fish are important protein sources for food of people in Northeast Thailand.

Smith<sup>1</sup> reported 555 species in 51 families of freshwater fish in Thailand.

National Inland Fisheries Institute<sup>2</sup> reported data in 1955, 108 species of fish in Mun River, Ubon Ratchathani Province.

Vidthayanon<sup>3</sup> revised Taxonomy of catfish (Family Pangasiidae), and reported 21 species of catfish.

Champasri<sup>4</sup> reported 144 species in 28 families of fish in Yom River, Northern Thailand.

Tan, Lim<sup>5</sup> reported new species of fish from Peninsular Thailand.

Rodmongkoldee, Rodmongkoldee, Okaddee<sup>6</sup> reported 77 species in 22 families of fish in Mun River, Phutthaisong District, Buriram Province.

Species diversity and distribution of freshwater fish in this area have not been recorded. The results of research will bring for

the natural resource conservation, and sustainable utilization by local community.

## Objective

The objectives of this research were studied species diversity, and distribution of freshwater fish, as well as some parameters of water quality in Mun River, Nakhon Ratchasima and Buriram Provinces.

## Materials and Methods

The specimens were collected every month from Mun River in Ban Tha Chang, Chaloeam Pra Kiat District, Ban Plau Pau, Non Sung District, Ban Phimai, Phimai District, Ban Khanak, Chum Phuang District, Nakhon Ratchasima Province, as well as Ban Wang Palat, Khu Mueang District, Fisherman Village, Satuek District, Buriram Province, which situated at the riverside, during October 2011 to September 2012. The specimens were collected by using local fishing gears, net, fishnet, hand net, seine, bamboo fish-trap, and fishhook. The specimens were cleaned and preserved in 10% formalin solution. They were deposited in the Science and Applied Science Center, Faculty of Science, Buriram Rajabhat University, Buriram Province. The specimens of

freshwater fish were identified by following Rainboth<sup>7</sup>, Smith<sup>1</sup>, and Vidthayanon<sup>3</sup>.

Physical and chemical parameters of water quality were measured (pH, dissolved oxygen (DO), water temperature, and turbidity) by using pH meter (INDEX ID1000), DO meter (HANNA HI9146), and Secchi disk).



**Figure 1** Mun River in Ban Phimai, Phimai District, Nakhon Ratchasima Province.

## Results

Freshwater fish in Mun River were identified 107 species 64 genera in 24 families (figure 2). The classification and distribution of fish were showed in Table 1.

Some parameters of water quality, which related to the distribution and survival of aquatic animals, were measured as follow: pH 6 - 8, DO 5.4 - 8.3 mg/l, water temperature 23 - 34° C, turbidity 17 - 98 cm. The results of parameters were indicated that water quality in Mun River were generally cleaned and found many species of fish.

**Table 1** The classification and distribution of freshwater fish in Mun River, Nakhon Ratchasima and Buriram Provinces. Abbreviations were as follows: A = Ban Tha Chang, Chaloem Pra Kiat District, B = Ban Plau Pau, Non Sung District, C = Ban Phimai, Phimai District, D = Ban Khanak, Chum Phuang District, Nakhon Ratchasima Province, E = Ban Wang Palat, Khu Mueang District, F = Fisherman Village, Satuek District, Buriram Province, + = found and - = not found.

Classification	Distribution					
	A	B	C	D	E	F
Phylum Chordata						
Subphylum Vertebrata						
Class Osteichthyes						
Subclass Actinopterygii						
Order Osteoglossiformes						
Family Notopteridae						
<i>Chitala ornata</i>	+	+	+	+	+	+

Table 1 (cont.)

Classification	Distribution					
	A	B	C	D	E	F
<i>Notopterus notopterus</i>	+	+	+	+	+	+
Order Clupeiformes						
Family Clupeidae						
<i>Clupeichthys aesapnensis</i>	+	+	+	+	+	+
Order Cypriniformes						
Family Cyprinidae						
<i>Paralaubuca typus</i>	+	+	+	+	+	+
<i>P. riveroi</i>	+	+	+	+	+	+
<i>Oxygaster pointoni</i>	+	+	+	+	+	+
<i>Parachela oxygastroides</i>	+	+	+	+	+	+
<i>P. siamensis</i>	+	+	+	+	+	+
<i>P. maculicauda</i>	+	+	+	+	+	+
<i>Esomus metallicus</i>	+	+	+	+	+	+
<i>Rasbora borapetensis</i>	+	+	+	+	+	+
<i>R. myersi</i>	+	+	+	+	+	+
<i>R. tornieri</i>	+	+	+	+	+	+
<i>R. spilocerca</i>	+	+	+	+	+	+
<i>R. trilineata</i>	+	+	+	+	+	+
<i>Thynnichthys thynnoides</i>	+	+	+	+	+	+
<i>Cycloheilichthys enoplos</i>	-	-	+	+	+	+
<i>C. furcatus</i>	-	-	-	+	+	+
<i>C. apogon</i>	+	+	+	+	+	+
<i>C. lagleri</i>	+	+	+	+	+	+
<i>C. repasson</i>	+	+	+	+	+	+
<i>Mystacoleucus argenteus</i>	+	+	+	+	+	+
<i>M. ectypus</i>	+	+	+	+	+	+
<i>Puntioplites falcifer</i>	-	-	-	-	-	+
<i>P. proctozysron</i>	+	+	+	+	+	+
<i>Barbodes altus</i>	+	+	+	+	+	+
<i>B. gonionotus</i>	+	+	+	+	+	+
<i>B. schwanefeldi</i>	-	-	-	-	-	+
<i>Hypsibarbus lagleri</i>	-	-	-	-	+	+
<i>H. wetmorei</i>	-	-	-	-	-	+

Table 1 (cont.)

Classification	Distribution					
	A	B	C	D	E	F
<i>Discherodontus ashmeadi</i>	-	-	-	-	-	+
<i>Puntius brevis</i>	+	+	+	+	+	+
<i>Systemus orphoides</i>	+	+	+	+	+	+
<i>S. partipentazona</i>	+	+	+	+	+	+
<i>Osteochilus hasselti</i>	+	+	+	+	+	+
<i>O. melanopleura</i>	+	+	+	+	+	+
<i>O. microcephalus</i>	+	+	+	+	+	+
<i>O. waandersi</i>	+	+	+	+	+	+
<i>Crossocheilus reticulatus</i>	-	-	-	-	-	+
<i>C. siamensis</i>	-	-	-	-	+	+
<i>Epalzeorhynchus frenatum</i>	-	-	-	-	-	+
<i>Labeo rohita</i>	+	+	+	+	+	+
<i>Morulius chrysophekadian</i>	+	+	+	+	+	+
<i>Hampala dispar</i>	+	+	+	+	+	+
<i>H. macrolepidota</i>	-	-	-	-	+	+
<i>Henicorhynchus ornatipinnis</i>	+	+	+	+	+	+
<i>H. lobatus</i>	+	+	+	+	+	+
<i>H. siamensis</i>	+	+	+	+	+	+
<i>Labiobarbus siamensis</i>	+	+	+	+	+	+
Family Cobitidae						
<i>Acanthopsis thiemmethdi</i>	+	+	+	+	+	+
<i>Yasuhikotakia modesta</i>	+	+	+	+	+	+
<i>Y. morleti</i>	+	+	+	+	+	+
<i>Syncrossus helodes</i>	+	+	+	+	+	+
<i>Lepidocephalichthys hasselti</i>	+	+	+	+	+	+
<i>Pangio anguillaris</i>	+	+	+	+	+	+
Order Siluriformes						
Family Bagridae						
<i>Pseudomystus siamensis</i>	+	+	+	+	+	+
<i>Heterobagrus bocourti</i>	+	+	+	+	+	+
<i>Mystus singaringan</i>	+	+	+	+	+	+
<i>M. mysticetus</i>	+	+	+	+	+	+
<i>M. atrifasciatus</i>	+	+	+	+	+	+

Table 1 (cont.)

Classification	Distribution					
	A	B	C	D	E	F
<i>Hemibagrus filamentus</i>	+	+	+	+	+	+
<i>H. wickioides</i>	+	+	+	+	+	+
Family Siluridae						
<i>Belodontichthys dinema</i>	-	-	-	-	-	+
<i>Kryptopterus cheveyi</i>	+	+	+	+	+	+
<i>K. geminus</i>	+	+	+	+	+	+
<i>Micronema apogon</i>	+	+	+	+	+	+
<i>M. bleekeri</i>	+	+	+	+	+	+
<i>Ompok krattensis</i>	+	+	+	+	+	+
<i>Wallago attu</i>	+	+	+	+	+	+
Family Schilbeidae						
<i>Laides longibarbis</i>	+	+	+	+	+	+
Family Pangasiidae						
<i>Pangasianodon gigas</i>	-	-	-	-	+	+
<i>Pangasius conchophilus</i>	-	-	-	-	+	+
<i>P. hypophthalmus</i>	+	+	+	+	+	+
<i>P. larnaudi</i>	+	+	+	+	+	+
<i>P. macronema</i>	+	+	+	+	+	+
<i>P. pleurotaenia</i>	+	+	+	+	+	+
<i>Helicophagus leptorhynchus</i>	+	+	+	+	+	+
Family Sisoridae						
<i>Bagarius yarrelli</i>	-	-	-	-	+	+
<i>Glyptothorax lampris</i>	-	-	-	-	+	+
Family Akysidae						
<i>Akysis varius</i>	+	+	+	+	+	+
Family Clariidae						
<i>Clarias batrachus</i>	+	+	+	+	+	+
<i>C. macrocephalus</i>	+	+	+	+	+	+
Order Beloniformes						
Family Belonidae						
<i>Xenentodon cancila</i>	+	+	+	+	+	+
Family Hemirhamphidae						
<i>Dermogynys siamensis</i>	+	+	+	+	+	+

Table 1 (cont.)

Classification	Distribution					
	A	B	C	D	E	F
Order Synbranchiformes						
Family Synbranchidae						
<i>Monopterus albus</i>	+	+	+	+	+	+
Family Mastacembelidae						
<i>Macrognathus siamensis</i>	+	+	+	+	+	+
<i>M. semiocellatus</i>	+	+	+	+	+	+
<i>Mastacembelus armatus</i>	+	+	+	+	+	+
Order Perciformes						
Family Ambassidae						
<i>Parambassis siamensis</i>	+	+	+	+	+	+
Family Nandidae						
<i>Pristolepis fasciatus</i>	+	+	+	+	+	+
<i>Nandus oxyrhynchus</i>	+	+	+	+	+	+
Family Cichlidae						
<i>Oreochromis niloticus</i>	+	+	+	+	+	+
Family Eleotrididae						
<i>Oxyeleotris marmoratus</i>	+	+	+	+	+	+
Family Anabantidae						
<i>Anabas testudineus</i>	+	+	+	+	+	+
Family Belontiidae						
<i>Trichopsis pumila</i>	+	+	+	+	+	+
<i>T. vittatus</i>	+	+	+	+	+	+
<i>Trichogaster trichopterus</i>	+	+	+	+	+	+
<i>T. pectoralis</i>	+	+	+	+	+	+
<i>Betta smaragdina</i>	+	+	+	+	+	+
Family Channidae						
<i>Channa gachua</i>	+	+	+	+	+	+
<i>C. lucius</i>	+	+	+	+	+	+
<i>C. micropeltes</i>	+	+	+	+	+	+
<i>C. striata</i>	+	+	+	+	+	+
Order Pleuronectiformes						
Family Soleidae						
<i>Euryglossa harmandi</i>	+	+	+	+	+	+

**Table 1** (cont.)

Classification	Distribution					
	A	B	C	D	E	F
Order Tetraodontiformes						
Family Tetraodontidae						
<i>Monotreta leiurus</i>	+	+	+	+	+	+
<i>M. suvatti</i>	+	+	+	+	+	+
<i>M. fangi</i>	+	+	+	+	+	+



*Chitala ornata*



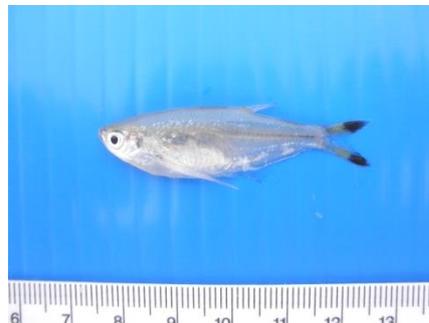
*Notopterus notopterus*



*Clupeichthys aesapensis*



*Parachela oxygastroides*



*Parachela maculicauda*



*Rasbora trilineata*



*Barbodes schwanenfeldi*

*Discherodontus ashmeadi*



*Systemus partipentazona*

*Morulius chrysophekadian*



*Acanthopsis thiemmethdi*

*Yasuhikotakia modesta*



*Syncrossus helodes*

*Lepidocephalichthys hasselti*



*Hemibagrus filamentus*

*Hemibagrus wickioides*



*Belodontichthys dinema*

*Kryptopterus cheveyi*



*Ompok krattensis*

*Wallago attu*



*Pangasius hypophthalmus*

*Pangasius larnaudi*



*Helicophagus leptorhynchus*

*Glyptothorax lampris*



*Akysis varius*



*Clarias batrachus*



*Xenantodon cancila*



*Dermogynys siamensis*



*Monopterus albus*



*Macrogynys siamensis*



*Parambassis siamensis*



*Pristolepis fasciatus*



Figure 2 Freshwater fish in Mun River, Nakhon Ratchasima and Buriram Provinces.

## Discussion and Conclusion

The specimens were collected from Mun River, Nakhon Ratchasima and Buriram Provinces. The areas were situated at the riverside. The mostly vocation of people were fisherman, which captured fish in Mun River by using local fishing gears. Pa Bung and Pa Tam (Flood plain forest) were found at the riverside in all areas, which were habitats of aquatic animals in rainy season.

The water quality and ecosystem were related to the distribution and survival of aquatic animals. The most species of fish were abundant and widely distributed in Mun River. Some species were found in some areas such as *Cyclocheilichthys enoplos*, *C. furcatus*, *Hypsibarbus lagleri*, *Crossocheilus siamensis*, *Hampala macrolepidota*, *Pangasianodon gigas*, *Pangasius conchophilus*, *Bagarius yarrelli*, and *Glyptothorax lampris*. Whereas, *Puntioplites falcifer*, *Barbodes schwanefeldi*, *Hypsibarbus wetmorei*, *Discherodontus ashmeadi*, *Crossocheilus reticulatus*, *Epalzeorhynchus frenatum*, and *Belodontichthys dinema* were rarely found.

This research reported 24 species of fish that similar to the National Inland Fisheries Institute<sup>2</sup> investigated in Mun River in 1955 as *Notopterus notopterus*, *Paralabuca riveroi*, *Esomus metallicus*, *Rasbora borapetensis*, *R. trilineata*, *Cyclocheilichthys enoplos*, *C. apogon*, *Puntioplites proctozyron*, *Osteochilus hasselti*, *O. melanopleura*, *Morulus chrysophekadian*, *Hampala dispar*, *Heterobagrus bocourti*, *Pangasianodon gigas*,

*Pangasius larnaudi*, *P. macronema*, *Clarias batrachus*, *C. macrocephalus*, *Xenentodon cancila*, *Pristolepis fasciatus*, *Oxyeleotris mamoratus*, *Anabas testudineus*, *Trichopsis vittatus*, and *Trichogaster trichopterus*.

This study reported 33 species of fish that similar to Champasri<sup>4</sup> investigated in Yom River as *Notopterus notopterus*, *Paralabuca typus*, *P. riveroi*, *Esomus metallicus*, *Rasbora borapetensis*, *R. myersi*, *Cyclocheilichthys enoplos*, *C. apogon*, *C. repasson*, *Puntioplites proctozyron*, *Osteochilus hasselti*, *O. melanopleura*, *O. waandersi*, *Crossocheilus reticulatus*, *Labeo rohita*, *Morulus chrysophekadian*, *Hampala macrolepidota*, *Mystus singaringan*, *M. mysticetus*, *Pangasius larnaudi*, *P. macronema*, *Clarias macrocephalus*, *Xenentodon cancila*, *Macrognathus siamensis*, *M. semiocellatus*, *Mastacembelus armatus*, *Oreochromis niloticus*, *Anabas testudineus*, *Trichopsis pumila*, *T. vittatus*, *Trichogaster trichopterus*, *Channa gachua*, and *C. striata*

Recently, this study reported 77 species of fish that similar to Rodmongkoldee, Rodmongkoldee, Okaddee<sup>6</sup> investigated in Mun River, Phutthaisong District, Buriram Province.

Some parameters of water quality, which related to the distribution and survival of aquatic animals were measured (pH, DO, water temperature, and turbidity). The results of parameters were indicated that water quality in Mun River were generally cleaned and suitable for aquatic animals.

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