

CHAPTER VI

AGRO-BIODIVERSITY PRODUCTS AND ESTIMATED DIRECT USED VALUES

This chapter aimed to estimated direct use value of agro-biodiversity used in wetland area. In term of 60 households of local people in Dong San Village, they involved in conservation activities which were participated in management and maintenance of wetland area.

6.1 Agro-biodiversity products

The importance of biodiversity for livelihoods and agriculture is increasingly recognized worldwide. In Songkhram river basin this is particularly apparent where the livelihoods of farmers are heavily dependent, not only on farming, but also on wildlife and wetland products. Also, Dong San's villagers are used to living in a dynamic natural environment and increasingly used to living in a dynamic economic environment. Floodplain exhibits a high degree of reliance on wetland derived products of their livelihood. They understand that change occurs, and they make efforts to plan/strategies/adapt according to change, while also generating change themselves. Typical wetland agro-biodiversity products according to management and utilization by people in Dong San village are encapsulated by the five groups below.

6.1.1 Fisheries

Seasonally flooded forests provide a fertile habitat for a good variety of fish. Villagers in the study area do fishery throughout the year. Generally, there are fishing auction system in Dong San village during June until December. After that period, other villagers can fish at the swamp as usual. The process of auction was control by village's committee. The committee would fix an initial price of swamp and announce the competitor to tender the bid. The bidder who offers highest price would get exclusive fishing right in community's swamp. The village's committee takes the revenue from the bid for developing their village. Also the study found that, villagers in the Dong San mostly use the following gears: fish net, fish hook, dip net and square dip net. Some households have commercial fishing gear which can catch about 100 kilogram per day especially in August or October that is high season of fishing. Approximately 38 kinds of fish were found, with Cyprinidae family being the most common type.



Figure 6-1: Housewives from Dong San village with their fishing gear.

6.1.2 Bamboo shoots

Collecting of bamboo shoots for selling starts in mid January, the most and best shoots are available from mid of April to June. A species of bamboo called “Pai gasa” (*Bambusa* sp.) which presented on river banks, floodplain and brook. Bamboo shoots are collected both for household consumption and commercial purpose. In July, shoots are collected mainly to meet the families' needs. In the early season, people collect the real shoots and also the sprouts at the branches. In Dong San village, paid 15 Baht for the shoots and 10 Baht for the other sprouts. In the peak season, when the shoots are easier to find, the prices decreased to 2 or 3 Baht per kilogram. A good collector can get 10 to 15 kilogram per day in the early season, and up to 40 kilogram in the peak season. Majority of households (98%) collected bamboo shoots for home consumption. Seasonal calendar for harvest bamboo shoots from seasonally floodplain forest in the study area is shown in Table 6-4.



Figure 6-2: Villagers collected bamboo shoots from seasonal floodplain area.



Figure 6-3: The businessman bought dried earthworms during January 2008.



Figure 6-4: Housewife processed and dried earthworms during September to December 2007.

6.1.3 Edible mushrooms

There are about different 16 kinds of edible mushrooms available in the study area. Wild mushrooms are available both in mound forest and “Tham” area. Villagers would collect mushrooms mainly for their own consumption as well as other wetland agro-biodiversity products. The important good for gatherers is mushroom specie called Hed Phueng Taam (Floodplain Honey Mushroom). Mushrooms are much rarer than bamboo shoots at the markets, but the prices are high with 60 to 180 Baht per kilogram depending on type, amount, and their availability. Villagers understand the period of mushrooms blossom. Some villagers go to collect wild mushrooms since 4 or 5 o’clock with their flashlight. In June and July, mushroom collectors can find up to 6 kilogram per day depends on type of the mushrooms and experience of villagers. Seasonal calendar for harvest edible mushrooms from

seasonal floodplain forest in the study area is shown in Table 6-5.

6.1.4 Earthworms

Earthworms (*Perionyx excavatus*) as key detritivores in the floodplain ecosystem are thought to be yet another source of important nutrition for many species of fish, amphibians, birds, reptiles and other fauna, which respond directly to the flood pulse. When heavy rains come and water levels start rising during the floods, worms surface out of their burrows en masse and are gradually forced on to raised areas and small mounds to escape the floods, where they become easy prey to predators. Furthermore, they have also become a significant source of income to some local villagers who collect worms by the handful and then air-dry them on racks for later sale. Most of the key informants have observed that earthworms gathered have declined drastically in the last two years in terms of volume, species composition and sizes of earthworms gathered (Table6-1).

During October till mid of December, collecting earthworms is the most important source of income in Dong San Village. When water level decreases, Dong San people collect earthworms from various areas (Table6-1) then sun-dried, bundled up and sold to middleman at the village (Figure 6-3 and 6-4), providing a significant source of income for local villagers. Prices for dry product are about 120 per kilogram. Seasonal calendar for harvest bamboo shoots from seasonally floodplain forest in the study area is shown in Table 6-4.

Table 6-1: Ranking for earthworms gathered area in 2006 and 2007.

Earthworms gathered area	Rank	
	2006	2007
Hue Dong	1	2
Dawn paa chaa	2	6
Nong Hue Ling	3	3
Thung Phan Khan	4	4
Dong noi	5	5
Don Lao khaw	6	1
tung naa (paddy field)	7	7
Hue Kud Lhum	8	8
Dong san school	9	9

Source: Limnirankul *et al.*, 2007

6.1.5 Wild vegetables

Different kinds of wild vegetables are available all year round in the study area. Villager utilized 51 types of vegetables mostly for their own consumption. However, some of villagers collect these wild vegetables and sell them to local merchants. In the study area, women and housewives also earned a small but sustainable daily income of at least 5-10 and sometimes even up to 50-60 Baht a day from selling the harvested vegetables at local markets. In some case, the middleman would ask a villager to collect and sell specific vegetable for them to feed a market in Arkat Amnuai. Various kinds of vegetables such as vegetables gathered on the floodplain are leaves of trees like Pak Kradon (*Barringtonia acutangula.*) which is eaten fresh with the local minced meat. Pak Kradon is sold all over the year and a

hold (150 gr.) costs only 1 Baht. Also used as wild vegetables are flowers of some trees and climbers growing on the floodplains. Examples are flowers of Mai Khae Ba (*Dolichandron serrulata*) these vegetables are also found in the District markets. They are very cheap, mostly one grip or bunch, enough for one dish, costs only one or two Baht. Seasonal calendar for harvest wild vegetables from seasonal floodplain forest in the study area is shown in Table 6-3.

6.2 Economic valuation of Agro-biodiversity products in study area

The total volume of agro-biodiversity products is calculated from total number of each product which actually interviewed from villagers in the study area. The methodologies for calculation have been presented in chapter III. The total economic of direct use value and amount of each wetland agro-biodiversity product which harvested from seasonal floodplain areas is shown in Table 6-2. This direct use value of wetland products could be estimated by using available village price, their market price and quantities of use in one year in term of cash income and non-cash income.

The total economic value of agro-biodiversity products in study area can be expressed as below.

- Fishery, the activity that doing during the year, price depends on kind of fish was 20 – 160 Baht per kilogram (Table 6-6). The total volume of fishery which collected from seasonal floodplain area of Dong San village is 54,585 kilograms per year. The value of these fisheries was about 59,172 Baht per year per household, the amount of household sell and consumption were 7,092 and 52,080 Baht per year per household, respectively.

- Price of dried earthworms was around 120 Baht per kilogram. The total volume of dried earthworms which Dong San villagers collected is about 5,644 kilograms per year. The value of cash income from these dried earthworms was about 11,288 Baht per year per household.

- Price of edible mushrooms was between 40 to 80 Baht per kilogram (Table 6-5). The total volume of edible mushrooms which collected from seasonal floodplain area of Dong San village is 4,799 kilograms per year. The estimated value of these edible mushrooms was about 4,339 Baht per year per household, the amount of household consumption and sell were 959 and 3,380 Baht per year per household, respectively.

- Price of bamboo shoots was 10-15 Baht per kilogram (Table 6-4) in peak season and 2-3 Baht in rainy season. The total volume of bamboo shoots which collected from seasonal floodplain area of Dong San village is 13,568 kilograms per year. The estimated value of these bamboo shoots was about 2,734 Baht per year per household, the amount of household consumption and sell were 685 and 2,049 Baht per year per household, respectively.

- Price of wild plants which were used as vegetables in the household was between 1-15 Baht per handful (Table 6-3). The total volume of wild vegetables which collected from seasonal floodplain area of Dong San village is 16,221 handfuls per year. The value of these wild vegetables was about 2,182 Baht per year per household, the amount of household consumption and sell were 620 and 1,562 Baht per year per household, respectively.

Table 6-2: Economic value of wetland products in the study area.

Activities	Quantity (kg/handfuls)	Cash income (Baht)	Non-Cash income* (Baht)	Total value (Baht)
Fishery	54,585	7,092	52,080	59,172
Earthworms	5,644	11,288	0	11,288
Edible mushrooms	4,799	959	3,380	4,339
Bamboo Shoots	13,568	685	2,049	2,734
Wild vegetables	16,221	620	1,562	2,182
Total value	94,817	20,644	59,071	79,715

Source: interviews, 2007

Note: * estimated from household consumption as price at Dong San Village

The information received was to estimate the total economic value of wetland agro-biodiversity products from seasonally flooded area in form of the direct use value were about 79,715 Baht per year per household. The results indicated that wetland products contributed around 63 % for livelihood of Dong San villagers, 10.2% from another source as rice cultivation which economic value of use for household consumption (non-cash income) was average on about 11,870 Baht per year per household. And 13.6% from off-farm income, that economic value of it was 5,600 Baht per year per household.

Table 6-3: Seasonal calendar for harvest the wild vegetable plants in study area in 2007.

No.	Local Name	Scientific Name	Harvested (month)												Price (Baht/handful)		
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
1.	ย่านาง	<i>Tiliacora triandra</i> Diels	x	x	x	x	x	x	x	x	x	x	x	x	x	x	5
2.	ผักขี้ขม	<i>Glinus oppositifolius</i> (L.) A.DC.	x	x													2
3.	ผักกระโดนน้ำ	<i>Barringtonia acutangula</i> (L.) Gaertn.	x	x	x	x	x	x	x	x	x	x	x	x	x	x	2
4.	ผักกระโดนโคก	<i>Careya sphaerica</i> Roxb.	x	x	x	x	x	x	x	x	x	x	x	x	x	x	2
5.	ผักไค้ทรงหนาด	<i>Phyllanthus taxodiifolius</i> Beille.	x	x	x	x	x	x	x	x	x	x	x	x	x	x	1
6.	ผักแสลง	<i>Xanthophyllum lanceatum</i> (Miq.) J.J.Sm.	x	x	x	x	x	x	x	x	x	x	x	x	x	x	2
7.	ผักเซียง	<i>Smilax davidiana</i> A. DC.	x	x	x	x	x	x	x	x	x	x	x	x	x	x	5
8.	ผักตปลา	<i>Derris thorelii</i> Crib.	x	x	x	x	x	x	x	x	x	x	x	x	x	x	5
9.	ผักปิ่น	<i>Combretum trifoliatum</i> Vent.	x	x	x	x	x	x	x	x	x	x	x	x	x	x	5
10.	ผักแว่น	<i>Marsilea crenata</i> Presl.	x	x	x	x	x	x	x	x	x	x	x	x	x	x	5

Note: Scientific Name is not known.

Table 6-3: Continue.

No.	Local Name	Scientific Name	Harvested (month)												Price (Baht/handful)		
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
11.	ผักอิน	<i>Monochoria vaginalis</i> Presl var. <i>plantaginea</i> Solms	x	x	x	x									x	x	1
12.	สาขัว	<i>Nymphaea lotus</i> L.	x	x	x	x	x	x	x	x	x	x	x	x	x	x	10
13.	ผักกระนองม้า	<i>Sagittalia guayanensis</i> Humb	x	x	x	x	x	x	x	x	x	x	x	x	x	x	5
14.	ผักอินทวา	<i>Kailasenia lineata</i>	x	x	x	x	x	x	x	x	x	x	x	x	x	x	2
15.	ผักหัวลิง	<i>Hymenocardia wallichii</i> Tul.	x	x	x	x	x	x	x	x	x	x	x	x	x	x	2
16.	แหน	<i>Najas graminea</i> Del.	x	x	x	x	x	x	x	x	x	x	x	x	x	x	1
17.	ผักกุ่ม	<i>Crateva magna</i> (Lour.) DC.	x	x	x	x	x	x	x	x	x	x	x	x	x	x	2
18.	ผักตุตงใบเตา	<i>Diplazium esculentum</i> Retz. Swartz	x	x	x	x	x	x	x	x	x	x	x	x	x	x	2
19.	ผักลุมพุก	<i>Tamilnadia uligiosa</i> (Retz.) tirveng & Sastre	x	x	x	x	x	x	x	x	x	x	x	x	x	x	2
20.	ผักก้านจอก	<i>Limnocharis Flava</i> (L.) Buchenau	x	x	x	x	x	x	x	x	x	x	x	x	x	x	5
21.	หมากเขว	<i>Eleocarpus hygrophilus</i> Kurz				x											5

Note: na Scientific Name is not known.

Table 6-3: Continue.

No.	Local Name	Scientific Name	Harvested (month)												Price (Baht/handful)		
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
22.	มะดัน	<i>Garcinia schomburgkiana</i> Pierre						x	x								5
23.	หมากกระเบา	<i>Hydnocapus anthelminthica</i> Pierre						x	x								10
24.	หมากว้อ	<i>Lepisanthhes senegalansis</i> Leenh.			x	x											5
25.	หมากหูลิง	<i>Hymenocardia wallichii</i> Tul.			x	x											5
26.	หมากหว่า	<i>Syzygium cumini</i> (L.) Skeels				x	x	x									10
27.	หมากเม่าขี้มด	<i>Antidesma velutinosum</i> Blume														x	5
28.	หมากกระบก	<i>Irvingia malayana</i> Oliv. ex a. Benn.														x	5
29.	หมากข้าวจี	<i>Grewia eriocarpa</i> Juss.													x	x	5
30.	มันแซง	na	x	x	x	x	x	x	x								10
31.	ตีนกระจาง	na	x	x	x	x	x	x									2
32.	ตีนเส้ไก่	na	x	x													2

Note: na Scientific Name is not known.

Table 6-3: Continue.

No.	Local Name	Scientific Name	Harvested (month)												Price (Baht/handful)			
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec				
33.	ผักตบชวี	na				x												2
34.	ผักชูด	na	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	2
35.	ผักสโ	na	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	2
36.	ผักจืด	na	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	2
37.	หมากจับ	<i>Xanthium strumarium</i> Linn.	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	5
38.	ผักขี้มด	na	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	2
39.	ผักตบชวี	na	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	2
40.	ผักกระดั้น	na	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	2
41.	ผักทิม	na	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	2
42.	ผักไชชา	<i>Capparis radula</i> (Gagnep.)	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	2

Note: na Scientific Name is not known.

Table 6-3: Continue.

No.	Local Name	Scientific Name	Harvested (month)												Price (Baht/handful)	
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
43.	หมากตำนัง	na	x	x	x	x	x	x	x	x	x	x	x	x	x	5
44.	ผักชีป้อ	na	x												x	2
45.	ผักชีส้ม	na	x	x											x	2
46.	ผักกาดทอง	na	x	x	x	x	x	x	x						x	2
47.	ผักกะตวย	na	x	x	x	x	x	x							x	2
48.	ผักเรือบิน	na	x	x	x	x	x								x	2
49.	ผักกระเตยอ้าว	na	x	x	x	x	x	x	x	x	x	x	x	x	x	2
50.	ผักกาเบ็ย	na	x	x	x	x	x	x	x	x	x	x	x	x	x	2
51.	ผักส้มกุ่ม	na	x	x	x	x	x	x	x	x	x	x	x	x	x	2

Note: na Scientific Name is not known.

Table 6-4: Seasonal calendar for harvest bamboo shoots and earthworms in study area in 2007.

No.	Local Name	Scientific Name	Harvested (month)												Price (Baht/kg)	
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1.	หน่อไม้ตะขง	<i>Bambusa</i> sp.		x	x	x		x	x	x		x	x	x		10-15
2.	ไส้เดือน	<i>Perionyx excavatus</i>										x	x	x		120

Note: **na** Scientific Name is not known.

Table 6-5: Seasonal calendar for harvest edible mushrooms in study area in 2007.

No.	Local Name	Scientific Name	Harvested (month)												Price (Baht/handful)		
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
1.	เห็ดขี้ผึ้ง	<i>Boletus colossus</i> Heim.					x										120
2.	เห็ดปลวก	<i>Termitomyces furtiginosus</i> .											x				100
3.	เห็ดกระจ่าง	<i>Neolentinus lepideus</i> (Buxb. Ex Fr.) Redhead & Gimis					x								x		70
4.	เห็ดตะพาน	<i>Geastrum saccatum</i> Fr.					x										150

Note: **na** Scientific Name is not known.

Table 6-5: Continue.

No.	Local Name	Scientific Name	Harvested (month)												Price (Baht/ha ndful)		
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
5.	เห็ดเกตุ	<i>Macrolepiota rhacodes</i> var. <i>bohemica</i>					x	x									20
6.	เห็ดหูหนู	<i>Auricularia auricula</i>								x	x						20
7.	เห็ดหน้าวัว	<i>Lactarius turpis</i> Weimm Fr.					x	x									40
8.	เห็ดน้ำหมาก	<i>Russula Luteotacta</i> Rea.					x	x									20
9.	เห็ดตา	<i>Agaricus diminutivus</i> (Moller) Moller						x									50
10.	เห็ดเตาขอม	<i>Agrocybe sororia</i> (Peck). <i>Watling</i>						x									50
11.	เห็ดตีนแฮด	<i>Tricholoma crassum</i> (Berk.) <i>Saccardo</i>						x									70
12.	เห็ดหัวหญ้า	<i>Collybia dryophila</i>						x									50
13.	เห็ดโตหน้าจั่ว	<i>Russula ochroleuca</i> (Hall) <i>Persoon</i>						x									80
14.	เห็ดละโงก	<i>Amanita princes</i> Corner and Bas.						x									80
15.	เห็ดขาวดิน	na						x									30
16.	เห็ดถ่าน	<i>Russula nigricans</i> (Bull.) Fr.						x									50

Note: **na** Scientific Name is not known.

Table 6-6: Seasonal calendar for harvest the fishery and their prices in study area in 2007.

No.	Local Name	Common Name	English Name	Scientific Name	Price (Baht/kg)
1.	ปลาตมหม็ด	ปลาตดกั้ง, ปลาตคแก้ว	Black catfish	<i>Hemibagrus sp.</i>	60
2.	ปลาตคเตีอก	ปลาตคเตีอก	Bagrid catfish	<i>Hemibagrus wyckioides</i>	60
3.	ปลาอีไท	ปลาอะไท, ปลาสร้อยขนเกเขา	Red spotted robust labeo	<i>Osteochilus hasselti</i> (Val. in Cuv.&Val.)	60
4.	ปลาตบโทง	ปลากระทุงเหว	Asian gar	<i>Xenotodon cancilooides</i> (Bleeker)	50
5.	ปลาชวย	ปลาชวย	Iridescent shark catfish	<i>Pangasisonodon hypophthalmus</i> (Sauvage)	100
6.	ปลาอนคิงบง	ปลากระซอน, ปลาสังวาด	Flat-barbel shark catfish	<i>Laides longibarbis</i> (Fowler)	80
7.	ปลาตุน	ปลาค้ำดำ	Giant black sheath-fish	<i>Wallago leeri</i> (Bleeker)	120
8.	ปลาตง	ปลาตคแก้ว	Red-tail bagrid	<i>Hemibagrus wyckiooides</i> (Chaux & Fang)	120
9.	ปลาหนุ	ปลาหนุ, ปลาสวายหนุ	Mouse-face shark catfish	<i>Helicophagus leptorhynchus</i> Ng	100
10.	ปลาโงก	ปลาตะโกล	Giant sensory line barb	<i>Cyclocheilichthys enoplos</i> (Bleeker)	40
11.	ปลาหนุทางแดง	ปลาหนุทางแดง	Red-tailed botia	<i>Yasuhikotakia modesta</i> (Bleeker)	40
12.	ปลาเชือมตุค	ปลาชะโอน	Black-ear sheath fish	<i>Ompok silurodes</i>	60
13.	ปลาตง	ปลาตง, ปลาเนื้ออ่อน	Blue Sheathfish	<i>Micronema bleekeri</i> (Gunther)	120

Note: **na** Scientific Name is not known.

Table 6-6: continue.

No.	Local Name	Common Name	English Name	Scientific Name	Price (Baht/kg)
14.	ปลาโต	ปลาตะโต	Giant snakehead	<i>Channa micropeltes</i> (Cuv.in Cuv.&Val)	60
15.	ปลาช่อ	ปลาช่อน	Green snakehead	<i>Channa striata</i> (Bloch)	80
16.	ปลาเซ็ง	ปลาหมอ	Climbing perch	<i>Anabas testudineus</i> (Bloch)	20
17.	ปลาตุกนา	ปลาตุก	Walking catfish	<i>Clarias batrachus</i> (Linnaeus)	80
18.	ปลาคว้าว	ปลาคว้าว	Crocodile sheath fish	<i>Wallago attu</i> (Schneider)	120
19.	ปลาปู	ปลาปูทราย	Marble sleeper goby	<i>Oxyeleotris marmorata</i> Bleeker	150
20.	ปลาปาน	ปลาตีนหมา	Ovate sole	<i>Brachirus harmandi</i> (Sauvage)	10
21.	ปลาทองกราย	ปลากราย	Clown featherback	<i>Chitala ornate</i> (Gray)	150
22.	ปลาสร้อยหัวแข็ง	ปลาสร้อยขาว	Common Siamese barb	<i>Henicorhynchus siamensis</i> (Sauvage)	20
23.	ปลากุ้ม	ปลาสร้อยเกล็ดดี	Tiny scale barb	<i>Thynnichthys thynnoides</i> (Bleeker)	20
24.	ปลากระสง	ปลากระสง	Marble Snake-head	<i>Channa lucius</i> (Cuv.&Val)	80
25.	ปลาฉิวท้องคม	ปลาฉิวควาย	Silver rasbora	<i>Rasbora cf myersi</i> Brittan	40
26.	ปลาปาก	ปลาตะเพียนขาว	Java barb	<i>Brachirus harmandi</i> (Sauvage)	50

Note: **na** Scientific Name is not known.

Table 6-6: Seasonal calendar for harvest the fishery and their prices in study area in 2007 (continue).

No.	Local Name	Common Name	English Name	Scientific Name	Price (Baht/kg)
27.	ปลาเข่งข้างลาย	ปลาเข่งข้างลาย	Southeast asian striped mystus	<i>Mystus mysticetus</i> (Roberts)	25
28.	ปลาหลดจุด	ปลาหลด	Peacock spiny eel	<i>Macrogathus siamensis</i> (Gunther)	50
29.	ปลาหลด	ปลากระทิง	Zig-zag spiny eel	<i>Mastacembelus armatus</i> (Lecepede)	50
30.	ปลาหลดทราย	ปลาหลดหลังจุด	Ocellated spiny eel	<i>Macrogathus marginatus</i> (Val. In Cuv.&Val.)	70
31.	ปลาสดิต	ปลาใบไม้	Snake skin gouramy	<i>Trichogaster pectoralis</i> (Regan)	25
32.	ปลาแก้วไก่	ปลาหมูใต้	Silver Botia	<i>Yasuhikotakia lecontei</i>	60
33.	ปลาหมู	ปลาหมูขาว	Red-fin Botia	<i>Yasuhikotakia modesta</i> (Bleeker)	60
34.	ปลาออกแก้ว	ปลาฉิวแก้ว	Thai river sprat	<i>Clupeichirichirus</i> (Cuv.&Val)	30
35.	ปลากระเดียด	ปลากระตี่หม้อ	Three-spotted gouramy	<i>Trichogaster trichopterus</i> (Palls)	15
36.	ปลาพันทราย	ปลารากกล้วย, ปลากล้วย	Horse-face loach	<i>Acanthopsis</i> sp.	50
37.	ปลาเอียน	ปลาไหล	Swamp eel	<i>Monopterus albus</i> (Zieuw)	60
38.	ปลาสุตขาว	ปลากระสือบจิต	Banded wolf barb	<i>Hemistilus mekongensis</i> Bornbursh & Lundberg	25

Note: **na** Scientific Name is not known.