BIOLOGICAL RESOURCES ------

Ecological Characteristics of the River

Habitat Surveys

Ecological Characteristics of the Nam Ou Basin

The Nam Ou Basin lies within the Northern Indochina sub-topical terrestrial ecoregion as defined by World Wide Found For Nature (WMF) (Glos and Dinestestin 2002). The basin also lies within the moist, sub-tropical broadleaf forest blome and is recognized to have special lasst features. Under the dassification system for river reaches developed for the Greater Mekong sub-region (Lehen and Ouellet Dallaire 2014), which uses three groups of classes, the following may be noted about the Nam Ou Basin's hydrologic, physio-climatic, and geomorphologic features:

- The tributaries of the Nam Ou can be dassified as medium-sized rivers based on their mean annual flow of 10-100 m³/sec.
- The peak monthly discharges are about three times the mean annual flow, which put the tributaries in the category of high seasonal flow variability. The upper reaches have a slightly lower flow variability because of the lower rainfall compared to the lower reaches and

- There is significant presence of karst in the lower parts of the river.

Geomorphologic:

- The tributaries and the mainstem have high stream

Box 9

Habitat Survey – Ban Vangle, Pak Ou

A detailed habitat survey was carried out on the sand and gravel island upstream of 8an Vangle, near Pak Ou (see also Figure 8). The Google Earth image of the area shows the widening of the river channel at this point with two channels, both of which are fast-Rolwing. The left-Rolwing channels wider with exposed rocks and shrubs at the upstream and downstream ends. This channel has some small rapids and riffles. The right-bank channel is about 30-40 m wide with a sharp bend at the end of the island where it rejoins the main channel. There is an area of rock and sand deposition at this point, used extensively by the small village on the right bank.

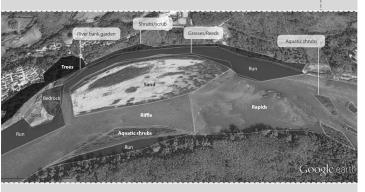
The island itself is 580 m long by 190 m wide, consisting of deposited sand, gravel, and pebble beds, laid down in channels that are inundated in the high flow season. The higher banks of the island are vegetated with tall grasses and strubts, sepecially Mimosa pign. The left bank for evier has larger trees and shrubs, while the right bank has riverbank garders and smaller trees and shrubs.

A macroinvertebrate survey of the sand, gravel, and bank vegetation on the island showed relatively sparse populations of Crustacea (crabs and shringps), anyther, bugs and beetles, molluscs, and small fish. The biodiversity index showed a score of 6.5, indicating a moderately modified stretch of the river in fair condition. The populations of macro-invertebrates in the upper bank layers sampled were probably depressed because of changes in water level due to a recent storm and flow changes from upstream dams.



Google Earth image of the island opposite Ban Vangle (top), overlay of aquatic habitats, bank type, and bank vegetation types on island upstream of Ban Pak Ou (bottom).





Fisheries & Aquatic Resources

Box 10

Fisheries Resources in the Nam Ou Basin

There have been several studies of the fishes of the Nam Ou Basin, notally by Kottelat (2009) for WWr. Surveys were conducted for the environmental impact assessment (EIA) of the Nam Ou cascade and noted that because of the diverse range of aquatic habitats, the Nam Ou supports a high divestil poff fish species that have adapted to fill the different ecological inches in the rev (Warren 2010).

Kottelat (2009) identified a total 84 fish species of 23 different families in the Nam Ou Basin. At least three species are exotic, having been introduced for aquatures, such as the Nille Tilapia (Dreachromis inibidicis), or for stocking, such as Rohu (Labeo rohitat) and Common Carp (Jornia carpio). Golden Basin (Parities semicalciatis) and Speciated Steed (Herinanders maceutation any also have been introduced into the basin through the Nam Nous from Wesham (Kottelat, 2009). Dr. (Phowin Phousavani (NUCL) conducted a series of fisheries surveys between 2007 and 2011, identifying a closel of 139 species in the Nam Ou and to tributaries.

The Mekong Giant Caffsh (**Pangasianodon gigas**), a critically endangered species, is reported as being present in the area of the confluence with the Mekong but not in the Nam Ou Itself. The Jover part of the Nam Ou from Meuang Ngoy to Pak Ou is Isted as a key biodiversity area? (RBA) by the International Union for Conservation of Nature (IUCN) (https://www.lcn.or.or/get-biodiversity-area) because of the presence of another critically endangered species, the Giant Barb (collocargio simensis or **Pac Chok). Respondents at provincia validation workshops held in Phongaly and Luang Pathaaing 10x17 confirmed that this species is found in the Nam Ou as far up as Pak Ban where fish of up to 10 kg have been caught, but it is not found in Oudomzay Province.

Two other endangered fish species, the Mekong Freshwater Stingray (Dasyatis loosensis) and Seven-striped Barb (Probarbus juillient), are also found throughout the Nam Ou. A spawning ground of the Seven-striped Barb and its spawning behaviors have been recorded at Ban Hatkhe, which is 41 km upstream from the confluence with the Mekong and 27 km upstream of the proposed Nam Ou. 1 hydropower project site.

Respondents at the 2017 provincial validation workshops also noted the presence of one of the longest distance migratory species, Pangasias kerapti, which migrates from the Mekong Delta to spawn and returns with its young. It was noted as far upstream as Mexang Samphan where 6th of up to 30 kg have been caught. By contrast, the Martbled Eel (Anguilla mammorata) is the only truly catadiomous fish of the Mekong migrating from the river to breed in the sea.

Fish migrations are an important part of the seasonal cycle, Fish move upstream from the Mekong into the Nam Ou and from the Nam Ou amount from the Nam Ou mainternam into the tributaries to breed. There are two main migration seasons late in the dry season when the waters and flow rate as the low and the smaller fish can move upstream easily; and in the flood season, when there is more water and the of the flood season, many fish migrate back downstream again (Poulsen, et al. 2004, Warren 2010).

Table 2 shows the number of species falling into different fish guilds (or groupings) as described by (Welcomme et al. 2006). There are 28 finithron resident guild species, which are typical of fast-flowing rocky, mountainous rivers. There are 48 main channel migratory species, including one migratory main channel and tributary resident guild species (*Binggano* behi 18), 27 migratory main channel soswers guild species, and 20 migratory main channel soswers guild species, and 20 migratory main fish species, they migrate from the Melong mainstream into the tributaries such as the Nan Ou and from there into its tributaries, either to spawn or to seek refuge during the dry season.

Thirty species are characterized as generalists, which live and breed under wide ecological conditions. Six species are floodplain residents, generally known as black fish species. Only one species, the Marble Goby (Oxyeleotris marmorato) [277), is semi-anadromous (living both in brackish and estannia conditions.) There are no catadromous (moving back down to the sea to breed) or marine species, as is to be expected. There are the non-matter species and six whose guidd in not known. There exotic species reported are widely distributed throughout the back.

This analysis of fish guilds found in the Nam Ou shows that it is this singles's mist guides to learn the research of a feel before the common of the co

NAM OU RIVER BASIN PROFILE - SUMMARY DOCUMENT

Distribution of fish species by fish guilds in the Nam Ou Basin.

i			
Guild	Description	No. of species	% of specie
Guild 1	Rhithron resident guild	28	22.6
Guild 2	Migratory main channel and tributaries resident guild	1	8.0
Guild 3	Migratory main channel spawner guild	27	21.8
Guild 4	Migratory main channel refuge seeker guild	20	16.1
Guild 5	Generalist guild	30	24.2
Guild 6	Floodplain resident guild (Blackfish)	6	4.8
Guild 7	Estuarine resident guild	0	0.0
Guild 8	Semi-anadromous guild	1	0.8
Guild 9	Catadromous guild	0	0.0
Guild 10	Marine guild	0	0.0
NG	No Guild appropriate	0	0.0
NK-N	Not Known or No Information	6	4.8
NN	Non-Native	5	4.0
Total		124	100.0

A number of threatened fish species are found in the river, according to the IUCN Red List of Threatened Species (Red List), One species, Scapponnthops theumenis (71), is considered critically endangered; three are endangered, including Luciocyprinus strilottus (37), Probarbus julieni (56, and Probarbus labermajor (57), and five are considered vulnerable, namely Borgma behi (8), (37), and rive are considered in measure, and Crossocheilus reticulatus (15), Hypsibarbus lagleri (31), Mystacoleucus lepturus (44), and Pseudohemiculter dispar (58).

The critically endangered Scaphognathops theumensis is only found in the Nam Theun and Nam Gnoung rivers, which are a long way from the Nam Ou. Identification of specimens collected from the Nam Ou is being conducted to confirm that this species is indeed more widespread than reported in the IUCN Red List, and/or if villagers had corneously identified the fish. Another similar species found in the Nam Ou. Scaphognathops stejnegeri (72), was recorded in two locations – Ban Pakhon and Ban Pakhoga – and is of least concern on the IUCN Red List.

When the Nam Ou 4 dam is built, the five endangered species identified by villagers at Ban Pakban will probably disappear. When the Nam Ou 1 dam is built, the two endangered species at Ban Paknga will also likely disappear, especially *Proborbus jullieni* (56), which has a recognized low-flow spawning area at Ban Halkhe that will be inundated after the construction of the dam.

Table 3 lists the distribution of fish guilds reported by villagers in the eight villages for case studies.

Number of fish species reported at 8 villages from the Nam Ou and associated tributaries. Fish species are grouped based on their guilds¹, and their origin. Number of Species of Concern (IUCN/Red List)² are listed.

	Village	Waterbody		Fish g	roups (g	uilds)¹			Origin		IUCN (Red List) ²		Total	
			Α	В	С	D	Е	Endemic	Native	Exotic	CR	EN/VU	NT	
1	Ban Nagnao	Nam Ou	19	12	14	4	3	19	35	3		3	3	52
2	Ban Homsang ³	Nam Ou	14	12	7	4	3	10	29	3	1		2	41
		Reservoir	1	3	3		2	2	4	2				9
3	Ban Pakban	Nam Ou	16	25	14	1	3	18	40	3	1	5	6	59
		Nam Ban	4	5	2			4	7	0			2	11
4	Ban Buamsom	Nam Phak	11	11	16	3	1	16	29	1	1		2	42
5	Ban Sopnao	Nam Noua	7	9	8	3	2	9	19	2	1		2	29
6	Ban Sopkhong	Nam Ou	9	18	14	6	2	13	36	2	1	1	2	49
7	Ban Pak Nga	Nam Ou	12	21	11	2	3	14	35	3	1	2	4	49
		Nam Nga	2	3				3	2	0				5
8	Ban Pak Ou	Nam Ou	1	20	10	2	2	7	26	2	1	2	4	35
	Total		28	48	30	6	5	35	86	5	1	8	8	117

Figh grounding (A) Bilbrithon nesides in Busile 11 (IB Maygarbor yrain channed, resident, spowner, and refuge seeker species (Guild 2-4); (C) Generalist (Guild-5); Di Geologiale nesides busiles files 446-466 and 15 the 4-thorus FALK Medi Lat species of concern. Gift. Critically fordamyered; (BKVII): Endangered or Vulnerable; & (NT) Near Threatened.

Fisheries & Fishing Gear

The fishery specialite report for the IBA of the Nam Ou cascades included surveys with fishermen in 18 villages along the length of the river (Warren 2010). The surveys revealed that a single fisherman could on average catch between 0.5 kg and 3.0 kg of hip per day using whatever gears appropriate to the time of year. During the upstream fish spawning migrations between April and June, daily landings can rise considerably, and reports of including fishermen catching in excess of 10 kg per day are not uncommon what is necessary for daily household consumption, hin har sold for cash if they are medium-sized (1 or 2 kg) or large (-5 kg) and processed –fermented, smoked, or sun-dried – if they are small (Warren 2010).

In December and January, men from the Luang Prabang districts of the Nam Ou may catch 5-10 kg of fish per day using a cast or scoop net and women may catch 2-5 kg per day using different gear. The transition to we tesaon is the most productive period, with about 70% of the catch sold and 30% used domestically.

Further upstream in Phongsaly, fish citches tend to be lower in Gnot Ou. A fisherman normally catches around 2-3 kg per day. The control of t

The main fishing gears used include fixed and drift gillnets, beat-nets, cast-nets, "Jun" traps, long-lines, single hooks, "Sai" traps, 'dtawn," 'Oo' traps, home-made spear guns, "Son," 'Dtoom', and 'Scoup-nets' Some of the gears are seasonal and others are used year-round (Warren 2010).

Fish conservation zones (FCZ) have been established with assistance from WWF at swerela villages along the Nam Ou and its institutaties. These zones are sections of the river that are recognized by local fishermen as important habitats for fish, usually they are deep pools that provide refuge for fish during the Cysesson and serve as spawning areas or fish nursery grounds. Participating fishermen from surrounding villages agree to abide by the rules and regulations restricting fishing activities in these zones, which are often marked with a string of flags across the river at the beginning and end of the reach that may be 500-m or 1-km long. Most fishermen agree that FC are effective in helping to protect and increase fish stocks.

Warren (2010) identified 15 villages with established FCZ on the Nam Ou mainstem. In the Luang Prabang districts of the Nam Ou Basin, there are 30 FCZ, with 52 on the Nam Ou (Ngoy – 10, Nam Bak – 11, Pak Ou – 4) and five on the Nam Nga as of 2016, in the Coulchows districts along the river, more than 90 villages have 35 conservation pook and 101 protection pook, figures from the 2017 provincial validation workshops show. Load regulations

Other Aquatic Animals (OAA)

Several OAA species, especially freshwater prawns, river weed (Cladophora spp.), amphibians, and reptites are important in the local subsistence economy and in Neelhoods of communities along the Nam Ou. However, no systematic studies of OAA, which include benthic invertebrates, scoplanktion, phytoplanktion, molluscs, crustaceans, and aquatic insects, have been conducted in the Nam Ou Barry.

A few turtle species are found in the basin, many of which are captured for sale and consumption. Some species are critically endangered, including the Asian Box Turtle (Loza ambinierus) and the Indochinese Box Turtle (Loz aptiliaritoss) – both of which have been captured in Phongsally. There is one endangered amphilian species, the 'unnan spiny frog (Vancana yunnanersis). These species are threatened primarily by human consumption and habitat loss.

Box 11

Littoral macroinvertebrates bio-survey

Littoral(shoreline) macroinvertebrates are good indicators of a river's general health because different taxonomic groups respond differently to changing flow and chemical conditions in the river. During fled studies conducted in developing this Profile, the South Kirlian minsiASS system was used to sample and analyze macroinvertebrates. Littoral macroinvertebrates are probably the easter aquatic fauna to sample from the banks and can be sorted on site, preserved, and identified at lessue, relowers the choice of sampling sites is important; usually banks and effective for sampling, as sand and mud tend to be too dense for many species.

The bio-survey index results showed that three sites in the upperriver—the Nam Ousource stream, a natural site above Gnod Ou, and the Gnod Ou Bridge — are considered the most natural, despite some disturbance from agricultural runoff and pollution from Gnod Ou town. Stoneflies were found in all three sites, which increased their scores.

Downstream sampling was not possible until 8an Sopkhong, which was considered to have a good macroinvertebraic index despite a nather low number of groups and indicators showing higher sensitivity. Below 8an Patings, Ban Huttike, and 6an Vangle the macroinvertebraic index revealed fair to poor conditions occasional releases from the dams, and sediment releases as a result of dam construction.

Three sites were sampled in the tributaries of the Nam Kor, the Nam Phak, and the Nam Nao. The first two were in poor to fair conditions largely because of sewage releases from Oudomay town. From the macroinvertebrate sampling results, the Nam Noua appeared to be in fair condition though the diversity of species was relatively low (see Table 4 for detailed results).

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Stream health assessment – littoral macro-invertebrate sampling (miniSASS) conducted on the Nam Ou Basin and tributaries.

Stream Health Indicator (macro-invertebrates)		Score	Nam Ou (source)					n Ou -> d/s	Tributaries u/s-> d/s				
1.	Flat worms	3											
2.	Worms	2											
3.	Leeches	2											
4.	Crabs and shrimps	6		6		6	6		6	6	6	6	
5.	Stoneflies	17	17	17	17								
6.	Minnow mayflies	5			5					5	5	5	5
7.	Other mayflies	11	11	11	11	11	11		11	11	11	11	11
8.	Damselflies	4											
9.	Dragonflies	6	6	6	6	6		6		6		6	6
10.	Bugs and Beetles	5	5	5	5	5	5	5	5	5	5	5	5
11.	Caddis flies	9	9	9		9		9		9		9	9
12.	True flies, Diptera	2	2							2		2	2
13.	Molluscs	4		4	4	4	4	4	4	4	4	4	
14.	Megaloptera	9		9							9		
i.	Tadpoles		×			×					×		
ii.	Fish		×		×	×	×	×	×	×			
	Total score	85	50	67	48	41	26	24	26	48	40	48	38
	Average score (Index)	6.1	8.3	8.3	8.0	6.8	6.5	6.0	6.5	6.0	6.7	6.0	6.3

Note: 'x' - Tadpoles and fish are not included when calculating stream health index, yet, the presence of both organisms was recorded as this is indicative of a healthy

Legend: Stream Health Index values for rocky type rivers	Index
Unmodified (Natural/pristine condition)	>7.9
Largely natural/few modifications (Good condition)	6.8-7.9
Moderately modified (Fair condition)	6.1-6.8
Largely modified (Poor condition)	
Seriously/critically modified (Very Poor condition)	<5.1

Sampling locations:									
	1.	Nam Ou Source	S1						
	2.	Gnot Ou Town upstream ('pristine' site)							
	3.	Gnot Ou downstream of bridge							
	4.	Ban Sopkong FCZ							
	5.	Ban PakNga							
	6.	Ban Hatkhe							
	7.	Ban Vangle (island)							
	8.	Nam Kor – fast water							
	9.	Nam Kor – slow water							
	10.	Nam Kor (confluence with Nam Phak)							



Terrestrial Resources

Land Use/Cover

The most recent comprehensive land cover/land use assessment for the Lower Mekong sub-basin was carried out by the MRC in 2014 using satellite imagery from 2010 and ground-truthed throughout the basin, including the Nam Ou Basin in both Lao PDR and Vietnam (Vo, et al. 2015).

nero vertami (Vo, et al. JCI)3. The land cover reflects both the terrain geology, and land uses in the basin. The predominant land cover is broadlewed decidious recreas, followed by shrubland; topether, they make up 86% of the total land cover in the basin. The combined natural forest lands (deciduous, evergreen, bamboo, and conferiors) make up 14,596 km²; contributing 56% of the total. The industrial plantations in the northern sub-catclements reflect the recent developments of rubber plantation. Agriculture makes up 6.5% of the total land reas; including annual crops, paddy rice, ordurads, and shifting cultivation, which makes up 4.0% of the total. Compared to the rest with much more intensive land use such as paddy, annual crops, and orchards.

Forest Cover/Vegetation

The main forest types in the Nam Ou Basin are as follows:

Upper mixed deciduous forest is small patches of relatively opper mixed decidations forest with a dense canopy of around 10-20 m in height. This is the most biologically diverse vegetation type in the Nam Ou Basin. Decidatous tree species represent more than 50% of the stand and bamboo occurs in some areas.

Unstocked forest refers to areas that were once upper mixed deciduous forest, but the primary tree crown density in these areas has been reduced to less than 20% because of selective logging or shifting cultivation activities.

Riparian forest identifies dense forest along creeks and rivers. Most of the riparian forest along the Nam Ou and its tributaries is unstocked due to selective logging. Large emergent trees are red often present above a dense mid-story and understory. Riparian forest susually does not extend further than 50 m from the creek or river edge.

Ramboo forest is widely distributed across the re Bamboo forest is widely distributed across the region and occurs primarily in areas previously subject to shifting cultivation. Areas classified as bamboo forest have at least 80% composition of bamboo species with canopy heights of up to 15 m.

In-channel vegetation occurs within the Nam Ou itself and the channel of major tributaries such as the Nam Khang. This vegetation occurs on sandbanks, sandbars, and rocky outcrops within the river



In Lao PDR, protection and conservation forests are defined by the Forestry Law (2008) as follows:

- Protection forest is forest and forestland classified for the purposes of protecting water sources, soil quality, the environment, and strategic areas for national defense; preventing soil erosion; protection from natural disasters and so on.
- Conservation forest is forest and forestland classified for the purposes of conserving nature and preserving plant and animal species, forest ecosystems, and other valuable sites of natural, historical, cultural, tourism, environmental, educational, and scientific importance.

In Phongsaly, there is one national conservation forest (Phou Den Din), five proxincial-level conservation forests, and four district-level conservation forests covering a total area of 237218 ha. There enational protection forests and two district protection forests covering a total area of 3797.490 ha, and two production forests covering a total area of 3797.490 ha, and two production forests covering a total of 158,573 ha.

The Phou Pha Provincial Conservation Forest is located on forested mountain slopes adjacent to the provincial administrative center of Phongsaly and covers around 200 ha. The area is protected primarily to conserve the townships water resources. The area is also managed as a district protection forest by the Phongsaly District Agriculture and Forestry Office.

The Phou Tasan Provincial Conservation Forest is located adjacent to the Nam Ou within the Nhot Ou District. The forest covered over 14,000 ha before it was redassified by the Ministry of Agriculture and Forest 5–6rest Inventory and Planning Department (FIPD) as Phu Sen National Protection Forest covering 9,495 ha.

The Phou Taleng Provincial Conservation Forest is located within the Boun Nua District. The forest currently covers around 14,310 Na. but its boundaries have been reclassified by the Ministry of Agriculture and Forests – FIPD, expanding its area to about 16,000 Na.

The Nam Lan Provincial Conservation Forest is located in the southwest corner of Phongsaly Province, adjacent to the Lao PDR-Chia border. Govering around 15,200 ha, the forest is a mountainous area with altitudes from 600 mast to 1,900 mast and reportedly contains significant areas of primary forest and supports a wide range of amphibian species Tourism in this area is promoted by the Phongsaly Forest Conservation and Rural Development Project.

Oudomxay has 130,000 ha of protection forests, 133,000 ha of reservoir forests, and 64,000 ha of production forests lying within the Nam Ou Basin. In Luang Prabang, there are 198,923 ha of national protection forest, 57,60 ha of district protection forest, and 8,028 ha of district reservoir forestry.

Fauna – Threatened Species, including Wildlife & Birds

Box 14

Animals of Conservation Significance (Endangered Species) in the Nam Ou Basin

Critically Endangered
Northern White Cheeked Gibbon, Nomascus leucogenys

- Recogniys

 Endangered

 Francosk Langur, Trachypithecus francoski

 Francosk Langur, Trachypithecus phoprei

 Banteng, Bos Jovanicus

 Banteng, Bos Jovanicus

 Sunda Panpolin, Maris Jovanica

 Chinese Pangolin, Maris Jovanica

 Chinese Pangolin, Maris Jovanica

 Large Antiered Muntjac, Munticus varqumgensis

 Indochinese Tiger, Panthera trigris corbetti

 Fishing Car, Prionaliurus vivernicus varqumgensis

 Green Peafowl, Pavo muticus

 Elongated Tortiose, Indoctestud oelongata

 Biig-headed Turtle, Platysternon megacephalum

Source: ESL. (2010). Nam Ou Cascade Terrestrial Bioc Forest Resource Use Study.



Lao PDR has 27 important bird areas (IBA; BirdLife International 2004), withonly one located in the Nam Ou Basin - the Phou Den Din Important Bird Area (IBA No. LAOB). This area covers around 126,880 ha and comprises the upper Nam Ou and its catchment within the Phou Den Din NPA. To be diassified as an IBA, the site must MPH at I least one of the three criteria: 1) The area holds significant numbers of one or more ujbbally investened species, 21 is among a set of sites that together hold a sulte of restricted-range species or biome-restricted species, and 3) has exceptionally large numbers of migratory or congregatory species.

A second KBA is in the lower Nam Ou from above Meuang Ngoy to Pak Ou because the critically endangered Slamese Giant Barb (*Carlocapio siamensis*) is found there. Villages at tending the 2DT provincial validation workshops confirmed its presence in the area.

Non-Timber Forest Products (NTFP) in the Nam Ou

Box 15

Non-Timber Forest Products (NTFP) in the Nam Ou Basin

The collection of NTFP is an important livelihood activity for all villagers living in the Nam Ou Basin, whether it is for food for home consumption or sale, or as medicinal plants. Many species have high commercial value and are sold for cash income.

NTFP species were reported as being collected in many areas of the Nam Ou River Basin; these are listed in order of widespread use:

- Most widespread
 Galangal (Alpinia galanga)
 Bamboo shoots (Bambusa spp.)
 Fern (Diplazium esculentum)
 Cardannom (Anomum krevanh) (not in lowest area)
 Centella (Centella asiatica) (not in highest area)

- Common

 Paper mulberry (Brouxonetia papyrifera)

 Broom grass (Thysanolaena maxima)

 Acacia (Acacia spp.)

 Amorphophallus (Amorphophallus thizomatosus)

 Elephant's ear fig tree (Ficas ourculata)

 Mellentha (Mellentha suavis)

Several tree species are used by villagers mostly for house-construction purposes. Two tree species are used throughout the Nam Ou Basin: Poudanga quandificam (Malaten) and Toon as ureni (Mai ngom). Two species are found throughout the basin except in the north: Gapen myrtles (Lagersternein spp.) (Mai syen) and Mechelia (Paramechelia baillorii) (Mai sa). Two are mainly found in the middle sections of the basin: Beechwood (Gmelina aboven) (Mai so) and Island longan (Pometia prinato) (Mai kha). Four have a less even distribution: Lietchhardt tree (Mauclea orientolis) (Mai kan luang) is found mainly in the north, Fijian longan (Pometia eximia) (Mai kan luang) is found mainly in the north, Fijian longan (Pometia eximia) (Mai kana) (Pangan Protium serarrum (Mai makken) in the middle reaches, and Schima wallichii (Mai ta) () mainly in the south.

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