

Supplement 1

Questionnaire sheet used to record information during camp visits

Name of interviewer

Name of interviewee position.....

Date.....

Section 1. Camp and elephant information

Camp name

Address

Years of operation

- Location:
- close to village no yes
 - close to main road no yes
 - close to river/stream no yes
 - close to forest no yes: type of forest
 - close to agricultural area no yes: specify
 - close to industry area no yes: specify

Activity with elephants

- riding with a saddle riding bareback no riding elephant show
- free movement feeding bathing others

Other activities

- ox-cart riding bamboo rafting rubber rafting visiting hill tribe villages
- trekking zip lines restaurant gift shop others

Program for tourists

- half day full day: How many days? days
- overnight others

Other animals in the camp

- no yes: ox buffalo dog cat chicken others

Elephant number elephants

- male: How many? elephants
- female: How many? elephants

Age of elephants

Age (years)	Number of elephants	
	Male	Female
<input type="checkbox"/> 0 - 3		
<input type="checkbox"/> 4 - 10		
<input type="checkbox"/> 11 - 20		
<input type="checkbox"/> 21 - 30		
<input type="checkbox"/> 31 - 40		
<input type="checkbox"/> 41 - 55		
<input type="checkbox"/> > 55		

Owner of elephants

- camp: How many elephants? elephants
- mahout: How many elephants? elephants
- others: How many elephants? elephants

Section 2. Elephant management

Working

Operation time	normal	start time
		end time
	high tourist season	start time
		end time
	low tourist season	start time
		end time

Walking

Distance and duration of walking

Type of work/activity	Distance/round (meters)	Duration/round (minutes)	Round/day (round)		
			Normal	High tourist season	Low tourist season
<input type="checkbox"/> riding with a saddle					
<input type="checkbox"/> riding bareback					
<input type="checkbox"/> no riding					
<input type="checkbox"/> elephant show					
<input type="checkbox"/> free movement					
<input type="checkbox"/> others: specify					

Walking trail

Type of work/activity	Type of trail					
	Floor (ground/ concrete/etc.	Flat (yes/no)	Slope (yes/no)	River (yes/no)	Road (yes/no)	Others
<input type="checkbox"/> riding with a saddle						
<input type="checkbox"/> riding bareback						
<input type="checkbox"/> no riding						
<input type="checkbox"/> elephant show						
<input type="checkbox"/> free movement						
<input type="checkbox"/> others: specify						

(If you have a riding bareback program)

How many elephants in this program? elephants: male female

How many tourists per elephant? persons

Where can tourists sit on the elephant? neck back

Where are mahouts? sit on a neck sit on a back walk with elephants

Are elephants attached by a cinch?

no yes: What type? rope rubber tube others

How long of this program? minutes/hours

(If you have a riding with a saddle program)

How many elephants in this program? elephants: male female

How many tourists per elephant? persons

What are saddles made from?

wood: How many weight? kg

metal: How many weight? kg

rattan: How many weight? kg

others How many weight? kg

What types of bedding? gunnysack hammered bark of tree blanket

sponge plastic others

How many weight of bedding? kg

What equipment are used to tie saddles? rope rubber tube others

Where do you tie equipment to elephants? neck chest tail

Are saddles removed during break time? no yes: How long?

How long of this program? minutes/hours

(If you have a no riding program)

How many elephants in this program? elephants: male female

How many tourists per elephant? persons

How long of this program? minutes/hours

(If you have an elephant show)

How many elephants in this program? elephants: male female

How many tourists per round? persons

How long of a show? minutes

What kind of activities in a show?

open mouth playing musical instruments

sit kicking soccer balls

lie down dancing to music

lift up a leg painting

raise a trunk demonstrating logging skill

others

(If you have a free movement program)

How many elephants in this program? elephants: male female

How many tourists per round? persons

How far of tourists from elephants? meters

Can tourists touch elephants? no yes

How can mahouts control their elephant?

How long of this program? minutes

Break time

Type of work/activity	Break time	
	When? (at noon, between rounds, etc.)	How long? (minutes)
<input type="checkbox"/> riding with a saddle		
<input type="checkbox"/> riding bareback		
<input type="checkbox"/> no riding		
<input type="checkbox"/> elephant show		
<input type="checkbox"/> free movement		
<input type="checkbox"/> others: specify		

Equipment used during working

Do you have any equipment to control elephants during working? no yes:

Type of equipment	How many elephants?	
	Every elephants	Some elephants: specify
<input type="checkbox"/> hook		
<input type="checkbox"/> nail		
<input type="checkbox"/> knife		
<input type="checkbox"/> slingshot		
<input type="checkbox"/> chain		
<input type="checkbox"/> others: specify		

Do elephants have a day off? no yes: specify

Is there any injury/problem caused from working?

- no yes: cause restraint equipment elephant fight
 saddle equipment weakness from workload
 walking trail others

Rest area

Rest area during daytime

Type of rest area	Movement (chain/no chain)	Floor type (ground/concrete/others)	How many elephants?
<input type="checkbox"/> conventional housing			
<input type="checkbox"/> enclosure			
<input type="checkbox"/> under tree			
<input type="checkbox"/> open space			
<input type="checkbox"/> grass field			
<input type="checkbox"/> others: specify			

Rest area during nighttime

Type of rest area	Movement (chain/on chain)	Floor type (ground/concrete/others)	How many elephants?
<input type="checkbox"/> conventional housing			
<input type="checkbox"/> enclosure			
<input type="checkbox"/> under tree			
<input type="checkbox"/> open space			
<input type="checkbox"/> grass field			
<input type="checkbox"/> others: specify			

(If you have housing)

What are housing made of? wood concrete metal others

Height meters

Roof type: zinc tile grass others

Can water drain out easily? no yes

Is there any rough surface? no yes

(If you have the enclosure)

How large of enclosures? square meters

How many elephants in each enclosure? elephants

How do you clean rest areas?

remove dung: How often?

wash: How often?

scrub: How often?

Chaining

(If you chain elephants)

Length of chain during daytime meters

Length of chain during nighttime meters

Size of chain unit

What kind of materials you chain elephants to? pin pole tree others

Nutrition

Type, source, freshness and storage of food

Type	Source	Freshness	Storage
<input type="checkbox"/> grass: specify type			
<input type="checkbox"/> corn stalk			
<input type="checkbox"/> pineapple stalk			
<input type="checkbox"/> bamboo			
<input type="checkbox"/> hey			
<input type="checkbox"/> banana			
<input type="checkbox"/> sugar cane			
<input type="checkbox"/> sticky rice			
<input type="checkbox"/> tamarind			
<input type="checkbox"/> pellet feed			
<input type="checkbox"/> others: specify			

Feeding

Elephant category	Type of food	Amount/day	Times/ day	Amount/time
Pre-wean				
Young (wean – 10 years)				
Adult males				
Adult females				
Old (> 55 years)				
Musth				
Pregnant				

Free foraging

- no: Why?
- yes: Where? forest grass field others
- When? daytime nighttime others
- How often? every day others
- How many elephant? elephants

Water

Water for bathing

- Source of water river/stream underground water
 tap water others
- Water processing no process filtration others

Water for drinking

- Source of water river/stream underground water
 tap water others
- Water processing no process filtration others

Where do elephants drink water? river/stream pond bucket
 tap others

Do you clean water containers? no yes: How often?

How can elephant drink water during daytime?

How can elephant drink water during nighttime?

How many times elephant can drink water? times/day

Health care

Bathing

How often do mahouts bath their elephants? times/day

When do mahouts bath their elephants?

Healthcare staff

no yes: veterinarian How many?

animal husbandman How many?

vet nurse How many?

others How many?

Elephant clinic

no yes

Medicine and equipment

wound dressing supplement

eye drops systemic antibiotic

local anti-inflammation systemic anti-inflammation

foot trimming others

What do you do if you have sick elephants?

treat by camp staffs

consult : Who?

contact mobile clinic: Which one?

send elephants to a hospital: Where?

Transportation: camp's truck hired truck

Health supplement

no yes: commercial herbs herbs from forest vitamin others

Annual health check program

- no yes: by camp: How often? times/year
What program?
- by government staffs: How often? times/year
What program?

Deworming program

- no yes: How many times? times/year

Vaccination program

- no yes: What kind of vaccine?
- How many times? times/year

Foot care

- no yes: How?
- How often?

Quarantine

- no yes: How?
- How long? days
- Program: deworming vaccination blood test others

Breeding

Breeding elephant

- no yes: bull elephants
dam elephants

Breeding program

- no: Why?
- yes

(If you have breeding program)

At what age do you start to breed elephants? years old

Heat detection

- no yes: How? by mahouts
- by breeding bulls: direct detection from urine samples
- by hormone level

What do you do if females are considered to be in estrus?

- breed in the camp during free time/after work
- stop working and separate to breed: Where?
 How long? days
- others

Do breeding elephants have a chance to be together?

- no yes: How?

Do you bring your elephants to breed at other camps?

- no yes: Where?

Do you bring elephants from other camps to breed at your camp?

- no yes: from where?

Do breeding elephants work the same as other elephants?

- yes no: not work work less than other elephants: specify

(If you have adult females at the age of 15-25 years old)

Have they ever breed?

- no yes: How many? elephants
- not found pregnant
- considered pregnant: How may? elephants

How many calves that born from camp breeding program? elephants

How many calves that born from camp breeding program in the last 5 years? elephants

Breeding record:

- no yes: date name of breeding elephants
- number of breeding others

Pregnant and baby elephant

Have you had pregnant elephants and/or calves? no yes

(If you have had pregnant elephants and/or calves)

How do you know that elephants are pregnant?

- physical changes: breast abdomen others
- behavioral changes: specify
- hormone level: by who?
- ultrasound: by who?

Is there any staff who have experience about pregnant elephants and calves?

- no yes: How many? staffs

Pedigree

- no yes

How do pregnant elephants work?

- work normally until parturition
- stop working: At what stage?
- reduce workload: How?
At what stage?

Specific zone for parturition

- no yes: Where?

Helper mother during parturition

- no yes

Staff during parturition

- no yes

Problem about pregnant elephants and calves in the last 5 years

- no yes: dystocia: How many cases? cases
predisposing cause
- stillbirth: How many cases? cases
predisposing cause
- calve rejection: How many cases? cases
predisposing cause
- others

Nursery zone

- no yes: Where?
- Is there a fence? no yes

Weaning

- no yes: How old? years old

Do you separate calves from mothers?

- no yes: How old? years old
Procedure

Training

- no yes: How old? years old
How long? months
Who is a trainer?
What are training tasks?
Have you found any problem from training?

Health problem in calves

- no yes: diarrhea bloat constipation skin problem wound
 eye problem EEHV others

Old elephant

Have you had old elephants? no yes

(If you have had old elephants)

Do old elephants work the same as other elephants?

- yes no: not work
 work less than other elephants: specify
 work in different program: specify
 others

Health problems

- no yes: bloat constipation skin problems wound
 foot problem stiffness arthritis abnormal gait
 cataract blindness tooth lost others

Retired elephant

Have you had retired elephants? no yes

(If you have had retired elephants)

How many retired elephants? elephants

Where do they live?

Do they have chance to exercise? no yes: How?

Musth elephant

Have you had musth elephants? no yes

(If you have had musth elephants)

What do you do when elephants are considered to be in musth condition?

- breed
- stop working
- separate to a specific zone: Where?
 - How do they eat food?
 - How do they drink water?
 - chain: no yes: How long? meters
 - other equipment: no yes: specify
 - How long?
- others

Is there any plan for emergency cases?

- no yes:
 - sedative
 - dart gun and equipment
 - experienced staffs
 - others

Musth record

- no yes: date duration signs others

Section 3. Mahout management

Number of mahouts mahouts

- permanent (regular) mahout mahouts
- reserve mahout mahouts

Number of mahout per elephant

Do you have enough mahouts?

- yes no: Why?

Ethnic of mahouts

- native of Thailand
- ethnic groups of Thailand: specify
- native of Myanmar
- ethnic groups of Myanmar: specify
- others

Benefit

Salary baht/month

Other income: tips: How much?
 round of working: How much?
 others

Insurance no yes: specify

Health check no yes: specify

Others

Day off

no yes: How many?..... days/month

What are important criteria for mahout employment?

- used to be a mahout
- recommended from reliable persons
- can communicate in Thai language
- have a legal document (for ethnic groups)
- others

Have you sent mahouts to join training courses?

- no: Why?
- yes: What courses?
- How often?

Rule

Punishment