

Second Presentation

Mr. Anton Immink

Selection of Sites

	Vietnam	Bangladesh	Thailand	India	Cambodia
Site 1	Riverine: Van Giang	NW: Kurigram SC: Gopalganj	Chi Flood Plain: Yasothon /Roi- et	Jhargram	South Svay Rieng
Site 2	Low-Lying Riceland: Phu Xuyen	NW: Dinajpur SC: Faridpur /Rajbari	Lowland Rice: Ubol Ratchathani	Purulia	North Svay Rieng
Site 3	Midland: Soc Son	NW: Panchogor	Upland Intervfluve: Srisaket	Orissa	Takeo
	All relatively close to Hanoi			All drier upland areas	

PRA Methodology

Two Sections : Livelihoods and Aquatic Resources

A. Village Resource Mapping

Timeline (with older people)

Well-being Ranking (three groups)

Activity Ranking Matrix (by socio-economic group) Seasonal
calendar (by socio-economic group)

B. Matrix of Importance of Aquatic Animals (setting criteria; not just
SRS. By socio-economic group)

Seasonal Calendar (main species by socio-economic group)

Long-term trends in aquatic animal availability (in socio-economic
group)

C. Preliminary analysis

D. Report-back and Validation with Community

Workshop Process

- ✱ *Recollection of Purpose and Objectives*
- ✱ *Presentation of Site Characteristics and PRA Methods*
- ✱ *Presentation of Livelihood*
- ✱ *Presentation of Aquatic Animal Profile*
- ✱ *WG on Systems Identification (Importance of Cultured Species/SRS)*
- ✱ *WG on Identification of Access and Beneficiaries*
- ✱ *Asian Typical Systems Map*
- ✱ *Characteristics of Systems*

Poverty Criteria

	V'nam	B'desh	Thail'd	India	Cambodia
Household	Live alone or young family		Newly formed or older households	Frequently migrant	Live alone or newly formed
Food Security	Small area of lowland; rice deficit 2-6 months	Little or no land; cannot take three meals per day	Landless or less than 1.5 ha	Landless of only poor upland Can't eat two meals per day	Landless or less than 0.5 ha Rice deficit of 3-6 months
Income		Often day labourers	No livestock; heavy dependence on wage labor	All members, including children, wage labor	
Education	Can send children only to primary school	Cannot send children to school or only to primary	Can only send children to primary school		HH head illiterate; children cannot enter school
Assets	Simple houses, few assets		No HH appliances		No HH appliances
Service access		Poor health; cannot afford treatment. Limited social capital	No access to loans	No access to capital for cultivation	No access loans; no money for medicines; no means of transport

Activity Profile: Poor People

Vietnam	Banglades	Thailand	India	Cambodia
Rice	Daily Wage Labour	Rice	Rice	Rice
HH Work	Rice	Fishing	HH Work	Vegetables
Fruits	HH Work	Vegetables	Vegetables	Fishing
Field Crops	Petty Trade	Wage Labour	Forest Gathering	Livestock
Livestock	Poultry	Livestock	Wage Labour	Wage Labour
Wage Labour Fishing 7 th ; Fish Culture 8th	Fishing	HH Work	Fishing	Wood Collection

Activity Profile : Better Off

Vietnam	Bangladesh	Thailand	India	Cambodia
Fruit Cultivation	Rice	Rice	Rice	Rice
Rice	HH Work	Fishing (M+)	HH Work	Livestock
Livestock	Salaried Job/Business	Livestock	Vegetable	Vegetables
Field Crops	Vegetables	Vegetable	Govt and Other Salary	Fishing
HH Work	Livestock	Wage Labour	Fishing	Petty Trading
Wage Labor (Fishing 7 th ; Fish Culture 8 th)	Other Field Crops; Fish Culture 7 th	HH Work	Forest Gathering	Wage Labour

Activity Profile: Key Points

✱ *In four countries (C, I, T, V), little difference in types of activity between rich and poor, although some changes in order of importance.*

✱ *Fishery (capture) figures quite highly in C, I, T for all socio-economic groups and is especially important in Cambodia and Thailand.*

✱ *In Bangladesh, there is much greater variation between rich and poor, including between fishing and aquaculture, although both ranked low. Daily wage labor is predominant activity of the poor.*

✱ *Indications of some commercial specialization among better-off in Vietnam.*

Criteria for Aquatic Animals

Vietnam	Bangladesh	Thailand	India	Cambodia
Taste	Availability (M)	Taste	Taste	Availability
Availability	Taste (W)	Ease of Catch (PM)	Ease of Catch	Ease of Catch (PM)
Ease of Catch	Ease of Catch (M+)	Versatility in Cooking (W)	Easy to Cook	Easy to Process (W)
Few Bones	Easy to Cook/Process (W+)	High Value (RM)	Price?	Tasty (W+)
High Value (R)			Good for Health	High Value (R)

Criteria for AA : Key Points

✱ *Taste and availability generally key criteria, suggesting subsistence orientation everywhere*

✱ *Ease of catch important especially for poor men (main fishers)*

✱ *Ease of cooking/processing important to women*

✱ *High values important for rich; Vietnam in cultured species; Cambodia and Thailand for SRS*

Aquatic Animal Importance

Viet Nam	Bangladesh	Thailand	India	Cambodia
Shrimp	Puntius	Snakehead	Clarias	Snakehead
Common carp	Clarias	Clarias	Snakehead	Clarias
Silver carp	Climbing perch	Climbing perch	Puntius	Climbing perch
Snail	Snakehead	Shrimp	Snail	Frogs
Grass carp	Mystus	Frogs	Rohu	Spiny eel
Crab	Danrika	Mystus	Shrimp	Rasbora
FW Clam	Spiny eel	Spiny eel	Masto-cembellus	Shrimp

Aquatic Animals Importance

- *As expected, cultured fish are mainly important in Viet Nam (Bangladesh?). Unexpectedly, cultured species do not figure highly in drier areas of Thailand.
- *However, even VN (BD?) SRS are of considerable importance to the poor, especially other Aquatic Animals (non-fish) in Viet Nam (FW clam, shrimp, snails, frogs).
- *Some differences in preferences between men and women, possibly rich and poor within SRS.
- *Even some normally-cultured species are either bought or self-recruiting into the system (e.g. rohu in India)

Trends of Aquatic Animals Abundant Species

Species	Reasons
*Climbing perch ^{C,T,Vn}	*Floods
*Crab ^C	*Good environment
*Rasbora ^C	*Start culturing
*Eel ^{C,T}	*Difficult to catch
*Featherback ^{C,T}	*Use of traditional fishing methods
*Catopra ^C	
*Mystus ^C	
*Tilapia ^C	
*Silver barb ^T	
*Grass carp ^{Vn}	
Frogs ^T	

Decreasing Species

Species	Reasons
* Catfish ^{T,C}	* Over exploitation
* Snakehead ^{Vn,T,C}	* Pollution
* Frogs ^{C,T}	* Disease
* Sheatfish ^T	* Drought
* Spiny eel ^C	* Bad environment
* Small shrimp ^{Vn,T,C}	* Illegal fishing
* Snail ^C	* Catching of juvenile
* Featherback ^C	* Limited spawning area
* Crab ^{Vn}	* Increasing number of fishermen
* Eel ^{Vn}	* Start culturing
* Clam ^{Vn}	
* Carassius ^{Vn}	