



SFB 564, sub-project D2 "Efficiency of smallholder animal production in mountainous areas of North Vietnam"

Management Of Pig Performance Data By Farmers With A Professional Software Databank

Pilot phase 3/2003 to 6/2003

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Data recording and data management Long-term objectives



- Data recording by farmers & researchers
- Develop a long-term stable <u>data flow system</u> between farmers & researchers
- Establish <u>data management directly in the villages</u>
- Training of a voluntary person from each village in
 - → using a computer
 - → data entry in a Herd Management Program
 - → data saving, data management and data checking
 - → preparing feed back information sheets for farmers



Conducted activities March - May 2003



- Set-up a computer at the Veterinary Department, Son La
- March

 Selection of 3 farmers from Ban Buon and Ban Bo, respectively, for a computer course

April

- Training of farmers in general use of a computer
- Selection of a Herd Management Program to establish a project data bank
- Selection of one farmer from each group for further training

May

 Training of that person in entering data in the Herd Management Program



Details on the computer course



	April	Мау
Nr. of participants	2 groups of 3 people from Ban Buon and Ban Bo, respectively	2 people from Ban Buon
Nr. of lessons	5	4
Main topics of the course	Introduce the computer and its possibilities	Explanations on the program "PigChamp" and its possible benefits
Using keyboard and mousePresentation of 2	Presentation of a handout to simplify data entry for participants	
	handouts in Vietnamese	Starting the program
 Writing and text editing (MS Word) Storage of documents 	Practicing data entry	
	editing (MS Word)	Storage of data



The 'PigChamp' program Main data entry screen



ID: 1052 Alt ID: LO,RU Parity: 1 Status: WEANED

Birth date: 15 APR 01 Sire: Dam: Genetics: MONG CAI

PARITY	DATE	EVENT	EVENT DATA
0	3 NOV 01 26 FEB 02 17 AUG 02	ENTER DISEASE MATING	Parity: 0 Origin: D2 Disease: PARASITES, EXTERNAL Boar:
1	8 SEP 02 8 SEP 02 12 DEC 02 22 DEC 02 14 FEB 03	ADULT WT CONDITION FARROW PIG DEATHS WEAN	Weight: 63.8 Score: 2 Alive: 10 Stillborn: 1 Mummies: 0 Weight: 10.8 Died: 1 Reason: LOW VIABILITY Pigs weaned: 9 Litter weight:

Add DElete EDit Header Up DOwn STore Next Options SWitch Quit

Command: ADD

Date: 14 FEB 03 Event: WEAN Pigs weaned: 9 Litter weight:

General information

Events in the life-cycle of the breeding animal

Commands and Data entry



The 'PigChamp' Program Herd Performance Report



PigCHAMP	HERD PERFORMANCE		FARM: 1		
HERD PERFORMANCE			Piç	CHAMP 2.1	
1 MAR 03 - 31 APRIL 03			(C) 1985,87,88 Univ of Minn		
FARM: BAN BUON			Licensed to ITP TU BERLIN		
			Printed	: 31 MAY 03	
				MAR 03	
		MAR 03	APR 03	APR 03	
BREEDING HERD PERFO	DRMANCE				
Total number of ser	vices	2	0	2	
Number of sows far	rowed	2	1	3	
Farrowing rate		100.0	100.0	100.0	
Average pigs born a	live/litter	7.0	9.0	7.7	
Litters / mated fema	le / year	1.66	0.77	1.20	
Use cursor keys to move through the report, press <esc> for options</esc>					



Rating of achievements after the course



General use of the computer

 Turn on / off computer and monitor 	NNN	NN	Start the program
 Using keyboard and mouse 	N N	V	Select the right farm for data entry
 Writing and text editing 	N N	$\sqrt{}$	Start data entry
Designing tables	V V	V	 Enter data for individual breeding pigs
 Save and re-open documents 	\\	√	Store entered data

Use of the
Herd
Management
Program
"PigChamp"

Tasks accomplished with little advice





Tasks accomplished only with assistance

^{√√√} independently

 $[\]sqrt{\sqrt{}}$ with little advice and/or use of handouts and own notes

only with assistance



Problems encountered



Until now

Work in Ban Buon & Ban Bo

Time

- Considerable parts of the program "PigChamp" have not been taught yet
- Missing practice due to time schedule

<u>Language</u>

 English operating language of the program

Motivation

- No voluntary training person from Ban Bo could be found
 - → No interest or direct relation to pig keeping husbandry?
 - → Purpose and benefit of the work is not yet recognized?

Logistic

Safety

Expected future problems

Additional work in Na Huong, Bo Duoi, remote villages

Time

- Computer training in additional villages
- Greater distance to these villages

Language

Language constraints remain

Motivation

Find suitable persons for training in all investigated villages

Logistic

Safety and electricity



Improvement strategies to overcome constraints



Time constraints

Provide additional practicing possibilities

Language constraints

Optimize handouts & simplify as much as possible

Motivation

- Take into account a compensation for entering data
- Find person with direct interest and relation to pig keeping husbandry

Logistic constraints

- Assess security risk in each village and take appropriate measures
- External power supply



Recommendations



For Ban Buon, Ban Bo

- ➤ Continue with work as started in test phase
- ➤ Concentrate on improvement strategies
- ➤ Take data entry sheets in Vietnamese language into consideration (Excel or Access)

For other villages

- Computerization postponed
- Data recording on sheets by farmers
- Data entry and management with a computer by data entry staff