

SECTION THREE
HOUSEHOLD SURVEY

PAYYAP UNIVERSITY

Table H1. TRIBAL DISTRIBUTION

Units: Households

	TRIBE		TOTAL
	KAREN	HAW	
MAE KHOM NUA	16 100%		16 100%
MAE KHOM TAI	12 100%		12 100%
MAE NGAN NOI	15 100%		15 100%
MAE NGAN LUANG	32 100%		32 100%
KHUN MAE NAI	13 93%	1 7%	14 100%
MAE JUM SAM NUA	43 100%		43 100%
MAE JUM SAM TAI	8 100%		8 100%
PHA AIR DU	39 100%		39 100%
MAE SA MOR JA NUA	17 100%		17 100%
MAE SA MOR JA TAI	19 100%		19 100%
TOTAL	214 100%	1 <1%	215 100%

Table H2. AGE DISTRIBUTION BY SEX AND AGE COHORT

Units: Persons

	MALE						FEMALE						TOTAL
	AGE COHORT					TOTAL	AGE COHORT					TOTAL	SEXES
	0 TO	3 TO	6 TO	15 TO	OVER	MALES	0 TO	3 TO	6 TO	15 TO	OVER	FEM-	
	2	5	14	60	60		2	5	14	60	60	MALES	
MAE KHOM NUA	2	5	11	24	2	44	3	2	13	31	5	54	98
	2%	5%	11%	24%	2%	45%	3%	2%	13%	32%	5%	55%	100%
MAE KHOM TAI	6	2	14	21	1	44		4	12	21		37	81
	7%	2%	17%	26%	1%	54%		5%	15%	26%		46%	100%
MAE NGAN NOI	8	6	7	37	3	61	4	6	8	31	1	50	111
	7%	5%	6%	33%	3%	55%	4%	5%	7%	28%	1%	45%	100%
MAE NGAN LUANG	7	14	36	70	4	131	6	7	30	51	4	98	229
	3%	6%	16%	31%	2%	57%	3%	3%	13%	22%	2%	43%	100%
KHUN MAE NAI	6	7	15	30	1	59	6	4	23	31	2	68	127
	5%	6%	12%	24%	1%	46%	6%	3%	18%	24%	2%	54%	100%
MAE JUM SAM NUA	11	7	35	62	6	121	17	14	40	66	12	149	270
	4%	3%	13%	23%	2%	45%	6%	5%	15%	24%	4%	55%	100%
MAE JUM SAM TAI	5	2	6	13	1	27	3	2	5	15	2	27	54
	9%	4%	11%	24%	2%	50%	6%	4%	9%	28%	4%	50%	100%
PHA AIR DU	12	6	35	68	3	124	8	11	32	71	4	126	250
	5%	2%	14%	27%	1%	50%	3%	4%	13%	28%	2%	50%	100%
MAE SA MOR JA NUA	3	5	15	33	3	59	6	3	8	30	1	48	107
	3%	5%	14%	31%	3%	55%	6%	3%	7%	28%	1%	45%	100%
MAE SA MOR JA TAI	4	8	12	32	2	58	7	6	15	26		54	112
	4%	7%	11%	29%	2%	52%	6%	5%	13%	23%		48%	100%
TOTAL	64	62	186	390	26	728	62	59	186	373	31	711	1439
	4%	4%	13%	27%	2%	51%	4%	4%	13%	26%	2%	49%	100%

Table H3. HOUSEHOLDS WITH INDIVIDUALS MIGRATING IN OR OUT IN THE PAST YEAR

Units: Households

	MOVE IN		MOVE OUT	
	YES	NO	YES	NO
MAE KHOM NUA	1 6%	15 94%		16 100%
MAE KHOM TAI		12 100%		12 100%
MAE NGAN NOI	3 20%	12 80%	1 7%	14 93%
MAE NGAN LUANG	3 9%	29 91%	1 3%	31 97%
KHUN MAE NAI		14 100%	1 7%	13 93%
MAE JUM SAM NUA	1 2%	42 98%		43 100%
MAE JUM SAM TAI		8 100%		8 100%
PHA AIR DU	1 3%	38 97%		39 100%
MAE SA MOR JA NUA		17 100%		17 100%
MAE SA MOR JA TAI		19 100%	2 11%	17 89%
TOTAL	9 4%	206 96%	5 2%	210 98%

Table H4. MARITAL STATUS (PERSONS AGE 15 AND OVER)

Unit: Persons

	SINGLE	MARR- IED	DIVOR- CED	WIDOW	SEPAR- ATED	TOTAL
MAE KHOM NUA	24 39%	32 52%		4 7%	1 2%	61 100%
MAE KHOM TAI	15 35%	28 65%				43 100%
MAE NGAN NOI	21 29%	48 67%		3 4%		72 100%
MAE NGAN LUANG	41 32%	86 67%		2 2%		129 100%
KHUN MAE NAI	19 30%	38 59%		6 9%	1 2%	64 100%
MAE JUM SAM NUA	43 29%	87 60%	9 6%	7 5%		146 100%
MAE JUM SAM TAI	7 23%	20 65%		4 13%		31 100%
PHA AIR DU	51 35%	82 56%		13 9%		146 100%
MAE SA MOR JA NUA	25 37%	40 60%		2 3%		67 100%
MAE SA MOR JA TAI	22 37%	33 55%		5 8%		60 100%
TOTAL	268 33%	494 60%	9 1%	46 6%	2 0%	819 100%

Table H5. HAVE GOVERNMENT IDENTIFICATION CARD
(PERSONS AGE 15 AND OVER)

Unit: Persons

	HAVE	NONE	TOTAL
MAE KHOM NUA	42 69%	19 31%	61 100%
MAE KHOM TAI	39 91%	4 9%	43 100%
MAE NGAN NOI	63 88%	9 13%	72 100%
MAE NGAN LUANG	116 90%	13 10%	129 100%
KHUN MAE NAI	51 80%	13 20%	64 100%
MAE JUM SAM NUA	94 64%	52 36%	146 100%
MAE JUM SAM TAI	18 58%	13 42%	31 100%
PHA AIR DU	125 86%	20 14%	145 100%
MAE SA MOR JA NUA	49 73%	18 27%	67 100%
MAE SA MOR JA TAI	37 62%	23 38%	60 100%
TOTAL	634 78%	184 22%	818 100%

Table H6. HOUSEHOLD REGISTRY OF HOUSEHOLD MEMBERS

Units: Persons

	SAME HOUSE	SAME VILLAGE	OTHER VILLAGE	NONE	TOTAL
MAE KHOM NUA	85 87%	2 2%		11 11%	98 100%
MAE KHOM TAI	73 90%	7 9%	1 1%		81 100%
MAE NGAN NOI	96 86%	3 3%	5 5%	7 6%	111 100%
MAE NGAN LUANG	201 88%	16 7%	3 1%	9 4%	229 100%
KHUN MAE NAI	112 88%	4 3%		11 9%	127 100%
MAE JUM SAM NUA	214 79%	23 9%	7 3%	26 10%	270 100%
MAE JUM SAM TAI	33 61%	5 9%	16 30%		54 100%
PHA AIR DU	228 91%	17 7%		5 2%	250 100%
MAE SA MOR JA NUA	97 91%	4 4%	2 2%	4 4%	107 100%
MAE SA MOR JA TAI	58 52%	16 14%	22 20%	16 14%	112 100%
TOTAL	1197 83%	97 7%	56 4%	89 6%	1439 100%

Table H7. LAND TENURE STATUS

Units: Area in rai

	PBT 5		STK		OTHER		NO TITLE	
	TOTAL HH	TOTAL AREA	TOTAL HH	TOTAL AREA	TOTAL HH	TOTAL AREA	TOTAL HH	TOTAL AREA
MAE KHOM NUA	1 6%	1	1 6%	4			16 100%	539
MAE KHOM TAI							12 100%	652
MAE NGAN NOI	1 7%	2	1 7%				14 93%	213
MAE NGAN LUANG	2 6%	9					32 100%	1167
KHUN MAE NAI			2 14%	11			14 100%	872
MAE JUM SAM NUA					1 2%	6	43 100%	1668
MAE JUM SAM TAI							8 100%	281
PHA AIR DU			1 3%	1			38 97%	2870
MAE SA MOR JA NUA							17 100%	833
MAE SA MOR JA TAI							19 100%	903
TOTAL	4 2%	12	5 2%	16	2 1%	6	213 99%	9998

Note: No households had NS 3, SK 1 or Bai Chong titles in this project area.

Table H8. RELIGION

Units: Persons

	BUD- HIST	CHRIST- IAN	ANA- MIST	MUSLIM	TOTAL
MAE KHOM NUA	13 13%	51 52%	34 35%		98 100%
MAE KHOM TAI		81 100%			81 100%
MAE NGAN NOI	27 24%	54 49%	30 27%		111 100%
MAE NGAN LUANG		203 89%	26 11%		229 100%
KHUN MAE NAI		117 92%		10 8%	127 100%
MAE JUM SAM NUA	27 10%	172 64%	71 26%		270 100%
MAE JUM SAM TAI		44 81%	10 19%		54 100%
PHA AIR DU	16 6%	220 88%	14 6%		250 100%
MAE SA MOR JA NUA	20 19%	46 43%	41 38%		107 100%
MAE SA MOR JA TAI	17 15%	44 39%	51 46%		112 100%
TOTAL	120 8%	1032 72%	277 19%	10 1%	1439 100%

Table H9. CENTRAL AND NORTHERN THAI LANGUAGE ABILITY.
(PERSONS AGE OVER 10)

Unit: Persons

	CENTRAL THAI				NORTHERN THAI				TOTAL
	YES		NO		YES		NO		
	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE	
MAE KHOM NUA	7 10%	4 6%	23 32%	37 52%	27 38%	11 15%	3 4%	30 42%	71 100%
MAE KHOM TAI	16 29%	3 5%	13 24%	23 42%	26 47%	8 15%	3 5%	18 33%	55 100%
MAE NGAN NOI	14 18%	5 6%	28 35%	32 41%	37 47%	9 11%	5 6%	28 35%	79 100%
MAE NGAN LUANG	43 28%	19 12%	46 29%	48 31%	83 53%	40 26%	6 4%	27 17%	156 100%
KHUN MAE NAI	11 14%	8 10%	28 35%	33 41%	33 41%	17 21%	6 8%	24 30%	80 100%
MAE JUM SAM NUA	8 4%	2 1%	74 40%	99 54%	70 38%	19 10%	12 7%	82 45%	183 100%
MAE JUM SAM TAI	3 9%	1 3%	13 38%	17 50%	15 44%	3 9%	1 3%	15 44%	34 100%
PHA AIR DU	32 19%	5 3%	53 31%	80 47%	72 42%	25 15%	13 8%	60 35%	170 100%
MAE SA NOR JA NUA	11 14%	1 1%	35 43%	34 42%	41 51%	6 7%	5 6%	29 36%	81 100%
MAE SA NOR JA TAI	2 3%		36 52%	31 45%	31 45%	2 3%	7 10%	29 42%	69 100%
TOTAL	147 15%	48 5%	349 36%	434 44%	435 44%	140 14%	61 6%	342 35%	978 100%

Table H10. EDUCATION LEVEL (AGE 15 AND OVER)

Unit: Persons

	YEARS OF EDUCATION				TOTAL
	NONE	UNDER 4	4 YEARS	OVER 4	
MAE KHOM NUA	52 85%	5 8%	2 3%	2 3%	61 100%
MAE KHOM TAI	33 77%		4 9%	6 14%	43 100%
MAE NGAN NOI	61 85%	3 4%	4 6%	4 6%	72 100%
MAE NGAN LUANG	89 69%	5 4%	7 5%	28 22%	129 100%
KHUN MAE NAI	55 86%	3 5%	5 8%	1 2%	64 100%
MAE JUM SAM NUA	143 98%	3 2%			146 100%
MAE JUM SAM TAI	27 87%		2 6%	2 6%	31 100%
PHA AIR DU	129 88%	3 2%	2 1%	12 8%	146 100%
MAE SA MOR JA NUA	66 99%	1 1%			67 100%
MAE SA MOR JA TAI	60 100%				60 100%
TOTAL	715 87%	23 3%	26 3%	55 7%	819 100%

Table H11. HOUSEHOLDS IN WHICH ONE OR MORE MEMBERS RECEIVED TRAINING

Units: Households

	AGRIC- ULTURE	HEALTH	NUTRI- TION	OTHER
MAE KHOM NUA				
MAE KHOM TAI	2 17%			1 8%
MAE NGAN NOI	3 20%	1 7%		1 7%
MAE NGAN LUANG	2 6%	1 3%		5 16%
KHUN MAE NAI	1 7%	1 7%		2 14%
MAE JUM SAM NUA		1 2%	1 2%	1 2%
MAE JUM SAM TAI		1 13%		1 13%
PHA AIR DU	1 3%	3 8%	1 3%	5 13%
MAE SA MOR JA NUA				3 18%
MAE SA MOR JA TAI				
TOTAL	9 4%	8 4%	2 1%	19 9%

Table H12. ROOF AND WALL MATERIAL OF DWELLINGS

Units: Dwellings

	ROOF			WALL			TOTAL
	CEMENT	TIN	OTHER	WOOD	BAMBOO	OTHER	
MAE KHOM NUA	1 6%	1 6%	14 88%	2 13%	14 88%		16 100%
MAE KHOM TAI	7 58%	1 8%	4 33%	8 67%	4 33%		12 100%
MAE NGAN NOI	1 7%	6 40%	8 53%	3 20%	12 80%		15 100%
MAE NGAN LUANG	8 25%	2 6%	22 69%	10 31%	21 66%	1 3%	32 100%
KHUN MAE NAI	2 14%	9 64%	3 21%	8 57%	6 43%		14 100%
MAE JUM SAM NUA	13 30%	14 33%	16 37%	20 47%	20 47%	3 7%	43 100%
MAE JUM SAM TAI		2 25%	6 75%	2 25%	6 75%		8 100%
PHA AIR DU	8 21%	10 26%	21 54%	15 38%	24 62%		39 100%
MAE SA MOR JA NUA			17 100%		17 100%		17 100%
MAE SA MOR JA TAI		1 5%	18 95%	1 5%	18 95%		19 100%
TOTAL	40 19%	46 21%	129 60%	69 32%	142 66%	4 2%	215 100%

Table H13. HOUSEHOLDS OWNING SELECTED AGRICULTURAL IMPLEMENTS

Units: Households

	WALK-- BEHIND TRACTR	WATER PUMP	PEST- ICIDER SPRAYR
MAE KHOM NUA			
MAE KHOM TAI			
MAE NGAN NOI	2 13%		
MAE NGAN LUANG	2 6%		
KHUN MAE NAI	2 14%		1 7%
MAE JUM SAM NUA	1 2%	1 2%	
MAE JUM SAM TAI			
PHA AIR DU			1 3%
MAE SA MOR JA NUA			
MAE SA MOR JA TAI			
TOTAL	7 3%	1 <1%	2 1%

- Notes: 1. No large tractors were owned in this project area.
2. In cases of joint ownership, both owners are counted.

Table H14. HOUSEHOLDS WITH SELECTED ASSETS

Units: Households

	PICKUP TRUCK	MOTOR CYCLE	TELE- VISION	RADIO	OTHER
MAE KHOM NUA				4 25%	
MAE KHOM TAI				6 50%	
MAE NGAN NOI				7 47%	
MAE NGAN LUANG	1 3%	2 6%		9 28%	
KHUN MAE NAI				6 43%	
MAE JUM SAM NUA			1 2%	7 16%	1 2%
MAE JUM SAM TAI				3 38%	
PHA AIR DU				9 23%	1 3%
MAE SA MOR JA NUA				10 59%	
MAE SA MOR JA TAI				6 32%	1 5%
TOTAL	1 <1%	2 1%	1 <1%	67 31%	3 1%

Note: No households had sewing machines in this project area.

Table H15: ANNUAL HOUSEHOLD INCOME FROM EMPLOYMENT
AS HIRED LABORER, OTHER SOURCES

Units: Baht

	n	HIRED	NON-AG
		LABOR	INCOME
		MEAN	MEAN
MAE KHOM NUA	16	1060	
MAE KHOM TAI	12	649	
MAE NGAN NOI	15	464	371
MAE NGAN LUANG	32	2062	2130
KHUN MAE NAI	14	1729	129
MAE JUM SAM NUA	43	2150	1072
MAE JUM SAM TAI	8	4136	250
PHA AIR DU	39	1259	3306
MAE SA MOR JA NUA	17	770	1706
MAE SA MOR JA TAI	19	1581	184
TOTAL	215	1580	1326

Table H16. AVERAGE ANNUAL HOUSEHOLD EXPENSES BY TYPE

Units: Baht

	SALT	FOOD	CLOTH- ING	TOB- ACCO	FERTI- LIZER	INSECT ICIDE	MEDI- CINE	EDUCA- TION	HOUS- ING	OTHER
MAE KHOM NUA	120	440	627	83			177			
MAE KHOM TAI	209	393	1173	80	33		742	350	1167	
MAE NGAN NOI	174	503	887	205	70	23	201	27	567	
MAE NGAN LUANG	159	573	953	340	123		359	516	5347	19
KHUN MAE NAI	265	1369	1787	238		7	596	457	4857	
MAE JUM SAM NUA	175	774	991	159	5	3	358	5	451	67
MAE JUM SAM TAI	206	426	664	165			681		1063	
PHA AIR DU	206	801	787	42		5	505		1567	
MAE SA MOR JA NUA	265	1445	1642	195	24		545	12	91	
MAE SA MOR JA TAI	139	605	700	247			418		26	
TOTAL	187	748	990	174	28	4	429	130	1640	16

Table H17. HOUSEHOLDS WITH ONE OR MORE MEMBERS USING FAMILY PLANNING

Units: Households

	USE FAMILY PLANNING		TOTAL
	YES	NO	
MAE KHOM NUA	1 6%	15 94%	16 100%
MAE KHOM TAI	3 25%	9 75%	12 100%
MAE NGAN NOI	2 13%	13 87%	15 100%
MAE NGAN LUANG	14 44%	18 56%	32 100%
KHUN MAE NAI		14 100%	14 100%
MAE JUM SAM NUA	4 9%	39 91%	43 100%
MAE JUM SAM TAI		8 100%	8 100%
PHA AIR DU	3 8%	36 92%	39 100%
MAE SA MOR JA NUA		17 100%	17 100%
MAE SA MOR JA TAI		19 100%	19 100%
TOTAL	27 13%	188 87%	215 100%

Table H18. HOUSEHOLDS WITH FEMALES USING FAMILY PLANNING BY TYPE

Units: Households

	IUD	STERI- LIZED	PILL	INJECT ION	OTHER
MAE KHOM NUA				1 6%	
MAE KHOM TAI			1 8%	2 17%	
MAE NGAN NOI				2 13%	
MAE NGAN LUANG		2 6%	5 16%	7 22%	
KHUN MAE NAI					
MAE JUM SAM NUA			1 2%	1 2%	1 2%
MAE JUM SAM TAI					
PHA AIR DU	1 3%		1 3%	1 3%	
MAE SA MOR JA NUA					
MAE SA MOR JA TAI					
TOTAL	1 <1%	2 1%	8 4%	14 7%	1 <1%

Note: No females used implants in this project area.

Table H19. HOUSEHOLDS WITH MALES USING FAMILY PLANNING BY TYPE

Units: Households

	STERI- LIZED
MAE KHOM NUA	
MAE KHOM TAI	
MAE NGAN NOI	
MAE NGAN LUANG	
KHUN MAE NAI	
MAE JUM SAM NUA	1 2%
MAE JUM SAM TAI	
PHA AIR DU	1 3%
MAE SA MOR JA NUA	
MAE SA MOR JA TAI	
TOTAL	2 1%

Note: No males used condoms in this project area.

Table H20. HOUSEHOLDS WITH TOILETS

Units: Households

	TOILET		TOTAL
	HAVE	NONE	
MAE KHOM NUA		16 100%	16 100%
MAE KHOM TAI		12 100%	12 100%
MAE NGAN NOI		15 100%	15 100%
MAE NGAN LUANG	2 6%	30 94%	32 100%
KHUN MAE NAI		14 100%	14 100%
MAE JUM SAM NUA		43 100%	43 100%
MAE JUM SAM TAI		8 100%	8 100%
PHA AIR DU	1 3%	38 97%	39 100%
MAE SA MOR JA NUA		17 100%	17 100%
MAE SA MOR JA TAI		19 100%	19 100%
TOTAL	3 1%	212 99%	215 100%

Table H21A. TOTAL DEATHS IN THE PAST YEAR BY CAUSE OF DEATH

Units: Households

	CAUSE OF DEATH	
	OLD AGE	ILL-NESS
MAE KHOM TAI		1
KHUN MAE NAI		1
MAE JUM SAM NUA	1	
PHA AIR DU		2
MAE SA MOR JA NUA		2
MAE SA MOR JA TAI		2
TOTAL	1	8

Table H21B. TOTAL BIRTHS AND INFANT DEATHS IN THE PAST YEAR

Units: Households

	BIRTHS	DEATHS
MAE KHOM NUA	2	
MAE KHOM TAI	4	
MAE NGAN NOI	5	
MAE NGAN LUANG	7	
KHUN MAE NAI	4	
MAE JUM SAM NUA	10	1
MAE JUM SAM TAI	3	
PHA AIR DU	10	
MAE SA MOR JA NUA	2	
MAE SA MOR JA TAI	4	
TOTAL	51	1

Notes: Births in calendar year 1990 through date of survey in April 1991. Deaths of infants under two years old.

Table H22. HOUSEHOLDS IN WHICH ONE OR MORE MEMBERS HAD MALARIA
IN THE PAST YEAR

Units: Households

	HAD PAST YEAR		TOTAL
	YES	NO	
MAE KHOM NUA	7 44%	9 56%	16 100%
MAE KHOM TAI	4 33%	8 67%	12 100%
MAE NGAN NOI	3 20%	12 80%	15 100%
MAE NGAN LUANG	12 38%	20 63%	32 100%
KHUN MAE NAI	6 43%	8 57%	14 100%
MAE JUM SAM NUA	6 14%	37 86%	43 100%
MAE JUM SAM TAI	4 50%	4 50%	8 100%
PHA AIR DU	7 18%	32 82%	39 100%
MAE SA MOR JA NUA	4 24%	13 76%	17 100%
MAE SA MOR JA TAI	3 16%	16 84%	19 100%
TOTAL	56 26%	159 74%	215 100%

Table H23. HOUSEHOLDS WITH PERSONS STILL ILL WITH MALARIA

Units: Households

	ILL	CURED	TOTAL
MAE KHOM NUA	2 29%	5 71%	7 100%
MAE KHOM TAI	2 50%	2 50%	4 100%
MAE NGAN NOI		3 100%	3 100%
MAE NGAN LUANG		12 100%	12 100%
KHUN MAE NAI	2 33%	4 67%	6 100%
MAE JUM SAM NUA		6 100%	6 100%
MAE JUM SAM TAI	2 50%	2 50%	4 100%
MAE PHA AIR DU	2 29%	5 71%	7 100%
MAE SA MOR JA NUA		4 100%	4 100%
MAE SA MOR JA TAI		3 100%	3 100%
TOTAL	10 18%	46 82%	56 100%

Table H24. HOUSEHOLDS WITH OPIUM ADDICT

Units: Households

	OPIUM ADDICT		TOTAL
	HAVE	NONE	
MAE KHOM NUA	11 69%	5 31%	16 100%
MAE KHOM TAI	1 8%	11 92%	12 100%
MAE NGAN NOI	5 33%	10 67%	15 100%
MAE NGAN LUANG	13 41%	19 59%	32 100%
KHUN MAE NAI	8 57%	6 43%	14 100%
MAE JUM SAM NUA	18 42%	25 58%	43 100%
MAE JUM SAM TAI	1 13%	7 88%	8 100%
PHA AIR DU	11 28%	28 72%	39 100%
MAE SA MOR JA NUA	4 24%	13 76%	17 100%
MAE SA MOR JA TAI	6 32%	13 68%	19 100%
TOTAL	78 36%	137 64%	215 100%

Table H25. HOUSEHOLDS ENGAGING IN SHIFTING CULTIVATION

Units: Households

	SHIFT FIELDS		TOTAL
	YES	NO	
MAE KHOM NUA	16 100%		16 100%
MAE KHOM TAI	10 83%	2 17%	12 100%
MAE NGAN NOI	14 93%	1 7%	15 100%
MAE NGAN LUANG	30 94%	2 6%	32 100%
KHUN MAE NAI	12 86%	2 14%	14 100%
MAE JUM SAM NUA	43 100%		43 100%
MAE JUM SAM TAI	6 75%	2 25%	8 100%
PHA AIR DU	37 95%	2 5%	39 100%
MAE SA MOR JA NUA	16 94%	1 6%	17 100%
MAE SA MOR JA TAI	19 100%		19 100%
TOTAL	203 94%	12 6%	215 100%

Table H26. AVERAGE YEARS UPLAND FIELDS USED/FALLOWED

Units: Years

	YEARS FIELD USED		YEARS FIELDS FALLOWED	
	n	MEAN	n	MEAN
MAE KHOM NUA	16	1.0	16	7.4
MAE KHOM TAI	12	1.0	12	7.8
MAE NGAN NOI	15	1.0	15	5.6
MAE NGAN LUANG	32	1.1	32	5.9
KHUN MAE NAI	14	1.0	14	7.8
MAE JUM SAM NUA	43	1.0	43	7.7
MAE JUM SAM TAI	8	1.0	8	8.3
PHA AIR DU	39	1.0	39	8.5
MAE SA MOR JA NUA	17	1.0	17	6.9
MAE SA MOR JA TAI	19	1.0	19	8.5
TOTAL	215	1.0	215	7.4

Table H27. AVERAGE TOTAL CULTIVATED AREA PER HOUSEHOLD

Units: Rai

	n	MEAN
MAE KHOM NUA	16	34.0
MAE KHOM TAI	12	54.3
MAE NGAN NOI	12	17.0
MAE NGAN LUANG	31	37.6
KHUN MAE NAI	14	63.1
MAE JUM SAM NUA	43	38.9
MAE JUM SAM TAI	7	40.2
PHA AIR DU	39	73.6
MAE SA MOR JA NUA	17	49.0
MAE SA MOR JA TAI	19	47.5
TOTAL	210	47.7

Table H28. HOUSEHOLDS USING ANIMAL MANURE FOR FERTILIZER

Units: Households

	USE	NOT USE	TOTAL
MAE KHOM NUA		16 100%	16 100%
MAE KHOM TAI		12 100%	12 100%
MAE NGAN NOI		15 100%	15 100%
MAE NGAN LUANG	1 3%	31 97%	32 100%
KHUN MAE NAI	3 21%	11 79%	14 100%
MAE JUM SAM NUA		43 100%	43 100%
MAE JUM SAM TAI		8 100%	8 100%
PHA AIR DU	2 5%	37 95%	39 100%
MAE SA MOR JA NUA		17 100%	17 100%
MAE SA MOR JA TAI		19 100%	19 100%
TOTAL	6 3%	209 97%	215 100%

Table H29. HOUSEHOLDS WITH KITCHEN GARDENS

Units: Households

	HAVE	NONE	TOTAL
MAE KHOM NUA	2 13%	14 88%	16 100%
MAE KHOM TAI	2 17%	10 83%	12 100%
MAE NGAN NOI	4 27%	11 73%	15 100%
MAE NGAN LUANG	3 9%	29 91%	32 100%
KHUN MAE NAI	6 43%	8 57%	14 100%
MAE JUM SAM NUA	13 30%	30 70%	43 100%
MAE JUM SAM TAI	4 50%	4 50%	8 100%
PHA AIR DU	9 23%	30 77%	39 100%
MAE SA MOR JA NUA	8 47%	9 53%	17 100%
MAE SA MOR JA TAI	5 26%	14 74%	19 100%
TOTAL	56 26%	159 74%	215 100%

Table H30. MONTHS HOUSEHOLD HAD INSUFFICIENT RICE

Units: Months

	NONE	1 TO 3 MONTHS	4 TO 6 MONTHS	7 TO 9 MONTHS	10 TO 12	TOTAL
MAE KHOM NUA	6 38%	2 13%	4 25%	3 19%	1 6%	16 100%
MAE KHOM TAI	5 42%	5 42%	2 17%			12 100%
MAE NGAN NOI	2 13%	7 47%	4 27%	1 7%	1 7%	15 100%
MAE NGAN LUANG	6 19%	12 38%	8 25%	4 13%	2 6%	32 100%
KHUN MAE NAI	8 57%	2 14%	2 14%	2 14%		14 100%
MAE JUM SAM NUA	21 49%	16 37%	4 9%	2 5%		43 100%
MAE JUM SAM TAI	4 50%	3 38%	1 13%			8 100%
PHA AIR DU	16 41%	9 23%	13 33%	1 3%		39 100%
MAE SA MOR JA NUA	7 41%	6 35%	3 18%	1 6%		17 100%
MAE SA MOR JA TAI	3 16%	8 42%	4 21%	2 11%	2 11%	19 100%
TOTAL	78 36%	70 33%	45 21%	16 7%	6 3%	215 100%

Table H31: AVERAGE UPLAND RICE SEED PLANTED, YIELD
AND YIELD/PLANTED RATIO

Units: Kilograms

	n	SEED PLANTED		TOTAL YIELD		RATIO	
		Valid N	MEAN	Valid N	MEAN	Valid N	MEAN
MAE KHOM NUA	16	16	96.0	16	866.9	16	10.0
MAE KHOM TAI	12	11	77.5	11	1124	11	14.4
MAE NGAN NOI	15	15	100.9	14	1139	14	11.5
MAE NGAN LUANG	32	32	99.4	30	1084	30	11.9
KHUN MAE NAI	14	12	214.7	12	2287	12	10.8
MAE JUM SAM NUA	43	42	96.6	42	1168	42	12.4
MAE JUM SAM TAI	8	8	102.0	8	945.0	8	11.0
PHA AIR DU	39	38	220.6	38	1766	38	8.6
MAE SA MOR JA NUA	17	16	170.4	16	1325	16	11.7
MAE SA MOR JA TAI	19	19	158.6	19	1718	19	16.1
TOTAL	215	209	137.1	206	1358	206	11.6

Note: RATIO is total yield divided by total amount planted.

Table H32. AVERAGE PADDY RICE SEED PLANTED, YIELD
AND YIELD/PLANTED RATIO

Units: Kilograms

	n	SEED PLANTED		TOTAL YIELD		RATIO	
		Valid N	MEAN	Valid N	MEAN	Valid N	MEAN
MAE KHOM NUA	16	5	24.4	5	1100	5	39.9
MAE KHOM TAI	12	8	25.5	8	1260	8	53.8
MAE NGAN NOI	15	8	32.3	8	1515	8	51.4
MAE NGAN LUANG	32	7	29.1	7	1474	7	47.9
KHUN MAE NAI	14	8	78.0	8	1703	8	23.5
MAE JUM SAM NUA	43	15	40.8	15	920.0	15	24.3
MAE JUM SAM TAI	8	5	50.4	5	1800	5	35.7
MAE SA MOR JA NUA	17	3	36.0	3	600.0	3	22.5
MAE SA MOR JA TAI	19	4	23.3	4	610.0	4	28.5
TOTAL	215	63	39.3	63	1249	63	36.3

Note: RATIO is total yield divided by total amount planted.

Table H33. AVERAGE AMOUNT AND VALUE OF RICE SOLD

Units: Value in Baht

	n	PADDY RICE SOLD			
		AMOUNT (KG)		VALUE	
		Valid N	MEAN	Valid N	MEAN
MAE NGAN LUANG	32	2	240	2	600
KHUN MAE NAI	14	2	120	2	300
MAE JUM SAM NUA	43	1	240	1	250
MAE JUM SAM TAI	8	1	120	1	250
MAE SA MOR JA NUA	17	1	360	1	900
TOTAL	215	9	253	9	622

Notes: No milled rice was sold in this project area.

Table H34. AVERAGE AMOUNT AND VALUE OF RICE BOUGHT

Units: Value in Baht

	n	PADDY RICE				MILLED RICE			
		AMOUNT (KG)		VALUE		AMOUNT (KG)		VALUE	
		Valid N	MEAN	Valid N	MEAN	Valid N	MEAN	Valid N	MEAN
MAE KHOM NUA	16	6	462	6	1113	2	96.0	2	665
MAE KHOM TAI	12	3	520	3	1517	1	270	1	1800
MAE NGAN NOI	15	5	408	5	1040	2	108	2	935
MAE NGAN LUANG	32	13	478	13	1270	9	157	9	1063
KHUN MAE NAI	14	5	864	5	1990	1	12.0	1	120
MAE JUM SAM NUA	43	19	339	19	707	.	.	.	.
MAE JUM SAM TAI	8	4	345	4	731	.	.	.	.
PHA AIR DU	39	12	542	12	1233	.	.	.	.
MAE SA MOR JA NUA	17	9	597	9	1172	.	.	.	.
MAE SA MOR JA TAI	19	16	555	16	1209	1	120	1	1000
TOTAL	215	92	494	92	1130	16	139	16	981

Table H35. AVERAGE AMOUNT AND VALUE OF RICE BORROWED

Units: Value in Baht

	n	PADDY RICE BORROWED				MILLED RICE BORROWED			
		AMOUNT (KG)		VALUE		AMOUNT (KG)		VALUE	
		Valid N	MEAN	Valid N	MEAN	Valid N	MEAN	Valid N	MEAN
MAE KHOM NUA	16	8	235	8	701				
MAE KHOM TAI	12	7	315	7	931				
MAE NGAN NOI	15	13	255	13	807				
MAE NGAN LUANG	32	14	576	14	1474	1	540	1	3600
KHUN MAE NAI	14	4	246	4	633				
MAE JUM SAM NUA	43	17	136	17	284				
MAE JUM SAM TAI	8	2	90.0	2	225				
PHA AIR DU	39	20	626	20	1498				
MAE SA MOR JA NUA	17	7	204	7	457				
MAE SA MOR JA TAI	19	7	153	7	318				
TOTAL	215	99	343	99	873	1	540	1	3600

Note: No rice was loaned in this village by individual households.

Table H36. CHILI PRODUCTION

Units: Yield and Amount Sold in kilograms, Value in Baht

	AVG. YIELD		AMOUNT SOLD		VALUE SOLD	
	Valid N	MEAN	Valid N	MEAN	Valid N	MEAN
MAE KHOM TAI	1	3	1	2	1	100
MAE NGAN NOI	1	6				
MAE NGAN LUANG	4	6				
KHUN MAE NAI	2	4				
MAE JUM SA NUA	1	10	1	1	1	70
MAE JUM SA TAI	2	53				
MAE PHA AIR DU	6	5				
MAE SA MOR JA NUA	1	15				
TOTAL	18	11	2	2	2	85

Table H37. SESAME PRODUCTION

Units: Yield and Amount Sold in kilograms, Value in Baht

	AVG. YIELD		AMOUNT SOLD		VALUE SOLD	
	Valid N	MEAN	Valid N	MEAN	Valid N	MEAN
MAE KHOM TAI	1	2				
KHUN MAE NAI	1	2				
MAE JUM SA NUA	1	2				
MAE SA MOR JA NUA	1	2				
TOTAL	4	2				

Table H38. SOYBEAN PRODUCTION

Units: Yield and Amount Sold in kilograms, Value in Baht

	AVG. YIELD		AMOUNT SOLD		VALUE SOLD	
	Valid N	MEAN	Valid N	MEAN	Valid N	MEAN
MAE KHOM NUA	1	165	1	11	1	1100
MAE KHOM TAI	5	138	1	30	1	2250
MAE JUM SA NUA	1	15				
TOTAL	7	124	2	21	2	1675

Note: No mungbeans were produced in this project area.

Table H39. CORN PRODUCTION

Units: Yield and Amount Sold in kilograms, Value in Baht

	AVG. YIELD		AMOUNT SOLD		VALUE SOLD	
	Valid N	MEAN	Valid N	MEAN	Valid N	MEAN
MAE KHOM NUA	3	115		.		.
MAE KHOM TAI	4	1568		.		.
MAE NGAN NOI	5	222		.		.
MAE NGAN LUANG	12	881	3	242	3	1667
KHUM MAE NAI	5	544		.		.
MAE JUM SA NUA	2	98		.		.
MAE JUM SA TAI	1	300		.		.
MAE PHA AIR DU	9	965		.		.
MAE SA MOR JA NUA	4	128		.		.
MAE SA MOR JA TAI	1	45		.		.
TOTAL	46	669	3	242	3	1667

Table H40. PUMPKIN PRODUCTION

Units: Kilograms

	AVG. YIELD	
	Valid N	MEAN
MAE JUM SA NUA	2	163
MAE SA MOR JA NUA	1	62
TOTAL	3	129

Note: No pumpkin was sold in this project area.

Table H41. VALUE OF OTHER FIELD CROPS SOLD

Units: Baht

	VALUE	
	Valid N	MEAN
MAE NGAN NOI	4	11675
MAE NGAN LUANG	4	1079
TOTAL	8	6377

Table H42. MARKET SITE FOR CHILI, SESAME, SOYBEAN, MUNGBEAN, CORN, PUMPKIN

Units: Households

	CHILI	SOYBEAN	CORN
	OUTSIDE VILLAGE	OUTSIDE VILLAGE	OUTSIDE VILLAGE
MAE KHOM NUA		1 100%	1 100%
MAE KHOM TAI	1 100%	1 100%	1 100%
MAE NGAN LUANG			3 100%
MAE JUM SAM NUA	1 100%		
TOTAL	2 100%	2 100%	3 100%

Note: No sesame or pumpkin was sold in this project area.

Table H43. MARKET SITE FOR COFFEE, JACKFRUIT, MANGO, PEACH

Units: Households

	JACK-FRUIT
	OUTSIDE VILLAGE
PHA AIR DU	1 100%

Note: No coffee, mango or peach was sold in this project area.

Table H44. COFFEE PRODUCTION

Units: Trees

	n	TOTAL TREES	
		Valid N	MEAN
MAE KHOM NUA	16	1	600
MAE KHOM TAI	12	2	86.5
MAE NGAN NOI	15	2	104
MAE NGAN LUANG	32	3	417
KHUN MAE NAI	14	1	3.0
MAE JUM SAM NUA	43	1	2.0
MAE JUM SAM TAI	8	2	36.5
TOTAL	215	12	192

Note: No coffee was harvested and
no coffee was sold in this project area.

Table H45. JACKFRUIT PRODUCTION

Units: Yield and Amount Sold in kilograms, Value in Baht

	n	TOTAL TREES		TOTAL YIELD		AMOUNT SOLD		VALUE SOLD	
		Valid N	MEAN	Valid N	MEAN	Valid N	MEAN	Valid N	MEAN
MAE KHOM NUA	16	3	2.7	1	30.0	.	.	.	.
MAE KHOM TAI	12	7	8.0	2	85.0	.	.	.	.
MAE NGAN NOI	15	5	2.0	.	.	.	.	.	.
MAE NGAN LUANG	32	4	2.0	.	.	.	.	.	.
KHUN MAE NAI	14	8	2.0	1	20.0	.	.	.	.
MAE JUM SAM NUA	43	11	2.3	.	.	.	.	.	.
MAE JUM SAM TAI	8	2	2.0	.	.	.	.	.	.
PHA AIR DU	39	13	2.2	1	600	1	2.0	1	15.0
MAE SA MOR JA NUA	17	5	2.2	.	.	.	.	.	.
MAE SA MOR JA TAI	19	2	1.0	.	.	.	.	.	.
TOTAL	215	60	2.8	5	164	1	2.0	1	15.0

Table H46. MANGO PRODUCTION

Units: Yield and Amount Sold in kilograms, Value in Baht.

	n	TOTAL TREES		TOTAL YIELD		AMOUNT SOLD		VALUE SOLD	
		Valid N	MEAN	Valid N	MEAN	Valid N	MEAN	Valid N	MEAN
MAE KHOM NUA	16	4	3.5	1	50.0	.	.	.	.
MAE KHOM TAI	12	7	8.3	3	103.3	.	.	.	.
MAE NGAN NOI	15	6	3.5	1	300.0	.	.	.	.
MAE NGAN LUANG	32	10	9.3	1	70.0	.	.	.	.
KHUN MAE NAI	14	8	2.8	2	65.0	.	.	.	.
MAE JUM SAM NUA	43	13	8.3	.	.	.	.	1	20.0
MAE JUM SAM TAI	8	3	2.7	.	.	.	.	.	.
PHA AIR DU	39	15	2.5	2	25.0	.	.	.	.
MAE SA MOR JA NUA	17	3	2.7	.	.	.	.	.	.
MAE SA MOR JA TAI	19	2	2.5	.	.	.	.	.	.
TOTAL	215	71	5.3	10	91.0	.	.	1	20.0

Note: No peaches were grown in this project area.

Table H47. LIVESTOCK SITUATION: CHICKENS

Units: Animals, Value in Baht

	n	TOTAL OWNED		TOTAL SOLD		VALUE SOLD		TOTAL DIED		TOTAL EATEN	
		Valid	MEAN	Valid	MEAN	Valid	MEAN	Valid	MEAN	Valid	MEAN
		N		N		N		N		N	
MAE KHOM NUA	16	16	10.9	8	6.1	8	176.3	9	4.9	15	7.2
MAE KHOM TAI	12	11	12.6	5	5.0	5	127.0	7	11.0	11	7.2
MAE NGAN NOI	15	15	7.6	2	4.5	2	85.0	10	6.6	13	6.9
MAE NGAN LUANG	32	32	7.4	10	3.0	10	82.0	11	5.7	26	6.4
KHUN MAE NAI	14	14	16.1	4	3.3	4	97.5	6	7.3	12	14.0
MAE JUM SAM NUA	43	41	5.2	6	3.7	6	46.7	9	5.6	31	6.5
MAE JUM SAM TAI	8	6	4.3	1	10.0	1	200.0	2	15.0	5	6.2
PHA AIR DU	39	39	5.1	6	2.9	8	113.5	15	7.7	27	6.5
MAE SA MOR JA NUA	17	16	5.6	4	2.8	4	45.0	8	6.6	13	6.6
MAE SA MOR JA TAI	19	18	5.2	1	10.0	1	200.0	7	5.9	13	4.9
TOTAL	215	208	7.3	49	4.1	49	106.0	84	7.5	166	7.1

Table H45. LIVESTOCK SITUATION: DUCKS

Units: Animals, Value in Baht

	n	TOTAL OWNED		TOTAL SOLD		VALUE SOLD		TOTAL DIED		TOTAL EATEN	
		Valid	MEAN	Valid	MEAN	Valid	MEAN	Valid	MEAN	Valid	MEAN
		N		N		N		N		N	
MAE KHOM NUA	16									1	1.0
KHUN MAE NAI	14	1	10.0							1	3.0
MAE JUM SAM NUA	43	1	2.0	1	2.0	1	400.0			2	1.5
TOTAL	215	2	6.0	1	2.0	1	400.0			4	1.5

Table H49. LIVESTOCK SITUATION: PIGS

Units: Animals, Value in Baht

	n	TOTAL OWNED		TOTAL SOLD		VALUE SOLD		TOTAL DIED		TOTAL EATEN	
		Valid	MEAN	Valid	MEAN	Valid	MEAN	Valid	MEAN	Valid	MEAN
		N		N		N		N		N	
MAE KHOM NUA	16	16	3.5	5	1.6	5	597.5	4	1.5	5	1.6
MAE KHOM TAI	12	12	3.3	2	1.0	2	340.0	1	1.0	7	1.9
MAE NGAN NOI	15	15	3.0	4	1.3	4	525.0	7	2.6	9	2.6
MAE NGAN LUANG	32	30	2.5	13	1.2	13	1465	7	1.6	12	1.5
KHUN MAE NAI	14	12	6.3	7	4.1	7	1079	3	4.0	9	3.3
MAE JUM SAM NUA	43	41	2.5	4	2.0	4	425.0	4	1.5	21	2.3
MAE JUM SAM TAI	5	5	4.5	2	3.0	2	280.0	1	1.0	6	1.3
PHA AIR BU	39	37	2.3	6	1.0	6	625.0	5	2.4	16	1.6
MAE SA MOR JA NUA	17	16	3.3	1	1.0	1	130.0	3	2.3	10	2.1
MAE SA MOR JA TAI	19	15	2.4	4	1.0	4	610.0	3	1.3	5	2.0
TOTAL	215	205	3.0	51	1.8	51	555.1	38	2.1	103	2.1

Table H50. LIVESTOCK SITUATION: GOATS

Units: Animals, Value in Baht

	n	TOTAL OWNED		TOTAL SOLD		VALUE SOLD		TOTAL DIED		TOTAL EATEN	
		Valid	MEAN	Valid	MEAN	Valid	MEAN	Valid	MEAN	Valid	MEAN
		N		N		N		N		N	
KHUN MAE NAI	14	2	5.0	2	2.5	2	975.0	1	1.0	1	1.0
TOTAL	215	2	5.0	2	2.5	2	975.0	1	1.0	1	1.0

Table H51. LIVESTOCK SITUATION: CATTLE

Units: Animals, Value in Baht

	n	TOTAL OWNED		TOTAL SOLD		VALUE SOLD		TOTAL DIED		TOTAL EATEN	
		Valid	MEAN	Valid	MEAN	Valid	MEAN	Valid	MEAN	Valid	MEAN
		N		N		N		N		N	
MAE KHOM NUA	16	2	2.0	1	1.0	1	1000				
MAE KHOM TAI	12	10	3.2	3	1.7	3	5400	2	1.0	1	1.0
MAE NGAN NOI	15	5	3.0								
MAE NGAN LUANG	32	8	4.4	3	1.0	3	2500	3	1.3		
EHUN MAE NAI	14	2	3.0								
MAE JUM SAM NUA	43	11	4.2	4	1.5	4	3250				
MAE JUM SAM TAI	8	1	1.0								
PHA AIR DU	39	5	2.0								
MAE SA MOR JA NUA	17	2	6.0	1	1.0	1	2500			1	1.0
TOTAL	215	46	3.5	12	1.3	12	3350	5	1.2	2	1.0

Table H52. LIVESTOCK SITUATION: BUFFALO

Units: Animals, Value in Baht

	n	TOTAL OWNED		TOTAL SOLD		VALUE SOLD		TOTAL DIED		TOTAL EATEN	
		Valid	MEAN	Valid	MEAN	Valid	MEAN	Valid	MEAN	Valid	MEAN
		N		N		N		N		N	
MAE KHOM NUA	16	9	2.7					2	1.0		
MAE KHOM TAI	12	9	4.7	4	2.3	4	8650	1	1.0		
MAE NGAN NOI	15	5	3.6	1	2.0	1	6000	1	1.0		
MAE NGAN LUANG	32	12	2.8	3	1.0	3	6600				
KHUN MAE NAI	14	12	3.8	9	2.7	9	13311	1	1.0		
MAE JUM SAM NUA	43	31	2.9	6	1.0	6	5583	3	1.3		
MAE JUM SAM TAI	8	3	2.7	1	1.0	1	4500				
PHA AIR DU	39	25	2.5	7	1.7	7	6971	1	1.0		
MAE SA MOR JA NUA	17	13	3.1	2	1.5	2	5000	1	1.0		
MAE SA MOR JA TAI	19	8	4.8	4	1.5	4	6100	1	1.0		
TOTAL	215	127	3.2	37	1.8	37	8146	11	1.1		

Table H53. LIVESTOCK SITUATION: ELEPHANTS

Units: Animals, Value in Baht

	n	TOTAL OWNED		TOTAL SOLD		VALUE SOLD		TOTAL DIED		TOTAL EATEN	
		Valid N	MEAN	Valid N	MEAN	Valid N	MEAN	Valid N	MEAN	Valid N	MEAN
MAE KHOM TAI	12	1	.3								
MAE NGAN NOI	15	1	3.0								
MAE NGAN LUANG	32	3	.4								
KHUN MAE NAI	14	1	2.0								
MAE JUM SAM NUA	43	3	1.1								
MAE JUM SAM TAI	5	2	.2								
PHA AIR DU	39	4	1.0								
MAE SA MOR JA NUA	17	2	.6								
MAE SA MOR JA TAI	19	2	1.2								
TOTAL	215	19	.9								

Note: There were no horses in this project area.