

SECTION THREE  
HOUSEHOLD SURVEY

PAYYAP UNIVERSITY

Table H1. TRIBAL DISTRIBUTION

Units: Households

	TRIBE				TOTAL
	KAREN	HMONG	LISU	THAI	
PHA SAMRAN		10 100%			10 100%
MAK PHRIK		3 12%	21 84%	1 4%	25 100%
HUAI NAM YEN		1 8%	11 92%		12 100%
HUAI BONG	8 100%				8 100%
HUAI MEE	19 100%				19 100%
HUAI HUNG	2 100%				2 100%
HUAI RAI	5 100%				5 100%
KAENG HOM KAREN	21 95%	1 5%			22 100%
KAENG HOM MEO	1 4%	25 96%			26 100%
TOTAL	56 43%	40 31%	32 25%	1 1%	129 100%

Table H2. AGE DISTRIBUTION BY SEX AND AGE COHORT

Units: Persons

	MALE						FEMALE						TOTAL BOTH SEXES
	AGE COHORT					TOTAL MALES	AGE COHORT					TOTAL FEM- ALES	
	0 TO 2	3 TO 5	6 TO 14	15 TO 60	OVER 60		0 TO 2	3 TO 5	6 TO 14	15 TO 60	OVER 60		
PHA SAMRAN	4 3%	11 8%	25 19%	37 28%		77 58%	3 2%	6 5%	14 11%	33 25%		56 42%	133 100%
MAK PHRIK	7 4%	8 4%	24 13%	43 24%	1 1%	83 47%	12 7%	16 9%	19 11%	46 26%	2 1%	95 53%	178 100%
HUAI NAM YEN	9 9%	7 7%	12 12%	21 21%	1 1%	50 51%	7 7%	4 4%	10 10%	26 27%	1 1%	48 49%	98 100%
HUAI BONG	1 2%		9 20%	13 28%		23 50%		4 9%	4 9%	14 30%	1 2%	23 50%	46 100%
HUAI MEE	3 3%	8 7%	11 9%	32 27%	4 3%	58 48%	3 3%	7 6%	20 17%	26 22%	6 5%	62 52%	120 100%
HUAI HUNG			3 17%	4 22%	1 6%	8 44%	1 6%		2 11%	7 39%		10 56%	18 100%
HUAI RAI	1 4%		3 12%	8 31%	1 4%	13 50%	1 4%	2 8%	3 12%	6 23%	1 4%	13 50%	26 100%
KAENG HOM KAREN	1 1%	6 6%	8 8%	32 30%	3 3%	50 48%	4 4%	7 7%	14 13%	28 27%	2 2%	55 52%	105 100%
KAENG HOM MEO	19 6%	31 9%	54 16%	62 19%	3 1%	169 51%	20 6%	12 4%	56 17%	70 21%	4 1%	162 49%	331 100%
TOTAL	45 4%	71 7%	149 14%	252 24%	14 1%	531 50%	51 5%	58 5%	142 13%	256 24%	17 2%	524 50%	1055 100%

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

Units: Households

	MOVE IN		MOVE OUT	
	YES	NO	YES	NO
PHA SAMRAN		10 100%	5 50%	5 50%
MAK PHRIK	1 4%	24 96%		25 100%
HUAI NAM YEN	1 8%	11 92%		12 100%
HUAI BONG	1 13%	7 88%		8 100%
HUAI MEE	1 5%	18 95%	1 5%	18 95%
HUAI HUNG		2 100%		2 100%
HUAI RAI		5 100%		5 100%
KAENG HOM KAREN	1 5%	21 95%	1 5%	21 95%
KAENG HOM MEO	1 4%	25 96%	1 4%	25 96%
TOTAL	6 5%	123 95%	8 6%	121 94%

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

Unit: Persons

	SINGLE	MARR- IED	DIVOR- CED	WIDOW	TOTAL
PHA SAMRAN	14 20%	52 74%	1 1%	3 4%	70 100%
MAK PHRIK	18 20%	69 75%		5 5%	92 100%
HUAI NAM YEN	12 24%	35 71%	1 2%	1 2%	49 100%
HUAI BONG	14 50%	11 39%		3 11%	28 100%
HUAI MEE	18 26%	44 65%		6 9%	68 100%
HUAI HUNG	7 58%	5 42%			12 100%
HUAI RAI	6 38%	10 63%			16 100%
KAENG HOM KAREN	19 29%	42 65%		4 6%	65 100%
KAENG HOM MEO	14 10%	123 88%		2 1%	139 100%
TOTAL	122 23%	391 73%	2 0%	24 4%	539 100%

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

Unit: Persons

	HAVE	NONE	TOTAL
PHA SAMRAN	51 76%	16 24%	67 100%
MAK PHRIK	70 76%	22 24%	92 100%
HUAI NAM YEN	37 76%	12 24%	49 100%
HUAI BONG	25 89%	3 11%	28 100%
HUAI MEE	54 79%	14 21%	68 100%
HUAI HUNG	8 67%	4 33%	12 100%
HUAI RAI	10 63%	6 38%	16 100%
KAENG HOM KAREN	53 82%	12 18%	65 100%
KAENG HOM MEO	117 84%	22 16%	139 100%
TOTAL	425 79%	111 21%	536 100%

Table H6. HOUSEHOLD REGISTRY OF HOUSEHOLD MEMBERS

Units: Persons

	SAME HOUSE	SAME VILLAGE	OTHER VILLAGE	NONE	TOTAL
PHA SAMRAN	111 88%	11 9%	2 2%	2 2%	126 100%
MAK PHRIK	65 37%		88 49%	25 14%	178 100%
HUAI NAM YEN	30 31%	28 29%	23 23%	17 17%	98 100%
HUAI BONG	40 87%		5 11%	1 2%	46 100%
HUAI MEE	101 84%	4 3%	3 3%	12 10%	120 100%
HUAI HUNG	16 89%			2 11%	18 100%
HUAI RAI	18 69%		3 12%	5 19%	26 100%
KAENG HOM KAREN	95 90%	5 5%		5 5%	105 100%
KAENG HOM MEO	306 92%	2 1%	12 4%	11 3%	331 100%
TOTAL	782 75%	50 5%	136 13%	80 8%	1048 100%

Table H7. LAND TENURE STATUS

Units: Area in rai

	SK 1		STK		BAI CHONG		NO TITLE	
	TOTAL HH	TOTAL AREA	TOTAL HH	TOTAL AREA	TOTAL HH	TOTAL AREA	TOTAL HH	TOTAL AREA
PHA SAMRAN							10 100%	104
MAK PHRIK							25 100%	291
HUAI NAM YEN							12 100%	140
HUAI BONG	1 13%	7	1 13%	6	2 25%	8	4 50%	14
HUAI MEE					1 5%	3	19 100%	82
HUAI HUNG							2 100%	55
HUAI RAI							3 60%	4
KAENG HOM KAREN					1 5%	2	21 95%	242
KAENG HOM MEO							26 100%	621
TOTAL	1 1%	7	13 1%	6	4 3%	13	122 95%	1553

Note: No households in this project area had NS 3 or PBT 5 land titles.



Table H8. RELIGION

Unit: Persons

	BUD- DHIST	CHRIST- IAN	ANA- MIST	MUSLIM	TOTAL
PHA SAMRAN	78 69%		35 31%		113 100%
MAK PHRIK	128 72%	2 1%	47 26%	1 1%	178 100%
HUAI NAM YEN	20 20%		78 80%		98 100%
HUAI BONG	24 52%	22 48%			46 100%
HUAI MEE		120 100%			120 100%
HUAI HUNG		18 100%			18 100%
HUAI RAI	26 100%				26 100%
KAENG HOM KAREN	2 2%	103 98%			105 100%
KAENG HOM MEO	230 69%	6 2%	95 29%		331 100%
TOTAL	508 49%	271 26%	255 25%	1 <1%	1035 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	
PHA SAMRAN	36 42%	15 18%	12 14%	22 26%	46 55%	32 38%	1 1%	5 6%	84 100%
MAK PHRIK	35 32%	11 10%	19 17%	45 41%	51 46%	28 25%	3 3%	28 25%	110 100%
HUAI NAM YEN	10 18%	4 7%	15 27%	26 47%	18 33%	8 15%	7 13%	22 40%	55 100%
HUAI BONG	11 31%	5 14%	6 17%	13 37%	16 46%	11 31%	1 3%	7 20%	35 100%
HUAI MEE	20 26%	5 6%	20 26%	32 42%	39 51%	20 26%	1 1%	17 22%	77 100%
HUAI HUNG	4 29%	1 7%	2 14%	7 50%	6 43%	3 21%		5 36%	14 100%
HUAI RAI	7 41%	3 18%	2 12%	5 29%	8 47%	3 18%	1 6%	5 29%	17 100%
KAENG HOM KAREN	22 29%	12 16%	18 24%	24 32%	36 47%	23 30%	4 5%	13 17%	76 100%
KAENG HOM MEO	43 23%	11 6%	48 25%	89 47%	79 41%	33 17%	12 6%	67 35%	191 100%
TOTAL	188 28%	67 10%	142 22%	263 40%	299 45%	161 24%	30 5%	169 26%	659 100%

Table H10. EDUCATION LEVEL (AGE 15 AND OVER)

Unit: Persons

	YEARS OF EDUCATION				TOTAL
	NONE	UNDER 4	4 YEARS	OVER 4	
PHA SAMRAN	54 77%	4 6%	3 4%	9 13%	70 100%
MAK PHRIK	71 77%	4 4%	7 8%	10 11%	92 100%
HUAI NAM YEN	46 94%		1 2%	2 4%	49 100%
HUAI BONG	19 68%			9 32%	28 100%
HUAI MEE	54 79%	4 6%	5 7%	5 7%	68 100%
HUAI HUNG	8 67%		2 17%	2 17%	12 100%
HUAI RAI	11 69%	1 6%	3 19%	1 6%	16 100%
KAENG HOM KAREN	46 71%	1 2%	14 22%	4 6%	65 100%
KAENG HOM MEO	126 91%	2 1%	5 4%	6 4%	139 100%
TOTAL	435 81%	16 3%	40 7%	48 9%	539 100%

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

Units: Households

	AGRIC- ULTURE	HEALTH	NUTRI- TION	OTHER
PHA SAMRAN		2 20%		1 10%
MAK PHRIK		3 12%	1 4%	1 4%
HUAI NAM YEN				
HUAI BONG				1 13%
HUAI MEE	1 5%			2 11%
HUAI HUNG				
HUAI RAI				
KAENG HOM KAREN		4 18%		5 23%
KAENG HOM MEO		1 4%	1 4%	
TOTAL	1 1%	10 8%	2 2%	10 8%

Table H12. ROOF AND WALL MATERIAL OF DWELLINGS

Units: Dwellings

	ROOF			WALL			TOTAL
	CEMENT	TIN	OTHER	WOOD	BAMBOO	OTHER	
PHA SAMRAN	1 10%	5 50%	4 40%	5 50%	5 50%		10 100%
MAK PHRIK		7 29%	17 71%	3 13%	20 83%	1 4%	24 100%
HUAI NAM YEN		5 42%	7 58%		12 100%		12 100%
HUAI BONG	1 13%	1 13%	6 75%	2 25%	6 75%		8 100%
HUAI MEE		6 32%	13 68%	5 26%	14 74%		19 100%
HUAI HUNG			2 100%		2 100%		2 100%
HUAI RAI			5 100%		5 100%		5 100%
KAENG HOM KAREN		8 36%	14 64%	6 27%	15 68%	1 5%	22 100%
KAENG HOM MEO	3 12%	17 65%	6 23%	14 54%	12 46%		26 100%
TOTAL	5 4%	49 38%	74 58%	35 27%	91 71%	2 2%	128 100%

Table H13. HOUSEHOLDS OWNING SELECTED AGRICULTURAL IMPLEMENTS

Units: Households

	WALK- BEHIND TRACTR	WATER PUMP	PEST- ICIDE SPRAYR
PHA SAMRAN		3 30%	3 30%
MAK PHRIK		2 8%	5 20%
HUAI NAM YEN			1 8%
HUAI BONG	2 25%		2 25%
HUAI MEE			
HUAI HUNG			
HUAI RAI			
KAENG HOM KAREN	1 5%	2 9%	3 14%
KAENG HOM MEO		3 12%	5 19%
TOTAL	3 2%	10 8%	19 15%

- 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	RADIO	SEWING MACHIN	OTHER
PHA SAMRAN	1 10%	4 40%	7 70%	9 90%	
MAK PHRIK	2 8%	1 4%	7 28%	7 28%	
HUAI NAM YEN	1 8%		2 17%	3 25%	1 8%
HUAI BONG	1 13%	2 25%	3 38%	2 25%	
HUAI MEE			8 42%		1 5%
HUAI HUNG					
HUAI RAI			2 40%		
KAENG HOM KAREN			9 41%		
KAENG HOM MEO	5 19%		17 65%	17 65%	1 4%
TOTAL	10 8%	7 5%	55 43%	38 29%	3 2%

Note: There were no televisions in this project area.

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

Units: Baht

	n	LABOR	NON-AG
		MEAN	MEAN
PHA SAMRAN	10	2232	560
MAK PHRIK	25	178	2891
HUAI NAM YEN	12	271	
HUAI BONG	8	1031	38
HUAI MEE	19	2487	280
HUAI HUNG	2	355	
HUAI RAI	5	775	
KAENG HOM KAREN	22	1368	821
KAENG HOM MEO	26	512	677
TOTAL	129	1037	924

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
PHA SAMRAN	321	1378	2220	17	495	345	968	30	1300	1020
MAK PHRIK	506	1600	4398	5	295	222	822	67	461	
HUAI NAM YEN	470	3175	5053	29	575	486	1025	25		
HUAI BONG	94	413	968	275	388	878	140	375	875	
HUAI MEE	212	609	798	152		9	414		2053	53
HUAI HUNG	108	100	500			10	375			
HUAI RAI	96	640	912	104			87			
KAENG HOM KAREN	317	979	1173	223	80	93	539	8	1669	45
KAENG HOM MEO	337	1984	4345	66	914	126	1789	116	864	
TOTAL	331	1416	2791	101	371	214	861	65	1010	98



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

Units: Households

	USE FAMILY PLANNING		TOTAL
	YES	NO	
PHA SAMRAN	4 40%	6 60%	10 100%
MAK PHRIK	13 52%	12 48%	25 100%
HUAI NAM YEN	1 8%	11 92%	12 100%
HUAI BONG	4 50%	4 50%	8 100%
HUAI MEE	6 32%	13 68%	19 100%
HUAI HUNG	1 50%	1 50%	2 100%
HUAI RAI	3 60%	2 40%	5 100%
KAENG HOM KAREN	10 45%	12 55%	22 100%
KAENG HOM MEO	10 38%	16 62%	26 100%
TOTAL	52 40%	77 60%	129 100%

Table H18. HOUSEHOLDS WITH FEMALES USING FAMILY PLANNING BY TYPE

Units: Households

	IUD	STERI- LIZED	PILL	INJEC- TION	IMP- LANT	OTHER
PHA SAMRAN	1 10%	1 10%	2 20%	2 20%	2 20%	1 10%
MAK PHRIK	3 12%	1 4%	3 12%	4 16%	1 4%	
HUAI NAM YEN					1 8%	
HUAI BONG			2 25%	2 25%		
HUAI MEE				3 16%	1 5%	
HUAI HUNG				1 50%		
HUAI RAI				2 40%	1 20%	
KAENG HOM KAREN			1 5%	3 14%	1 5%	
KAENG HOM MEO			4 15%	6 23%		
TOTAL	4 3%	2 2%	12 9%	23 18%	7 5%	1 1%

Table H19. HOUSEHOLDS WITH MALES USING FAMILY PLANNING BY TYPE

Units: Households

	CONDOM	STERI- LIZED	OTHER
PHA SAMRAN	1 10%	1 10%	1 10%
MAK PHRIK	1 4%	4 16%	
HUAI NAM YEN			
HUAI BONG		1 13%	
HUAI MEE		3 16%	
HUAI HUNG			
HUAI RAI			
KAENG HOM KAREN		5 23%	
KAENG HOM MEO			
TOTAL	2 2%	14 11%	1 1%

Table H20. HOUSEHOLDS WITH TOILETS

Units: Households

	TOILET		TOTAL
	HAVE	NONE	
PHA SAMRAN	2 20%	8 80%	10 100%
MAK PHRIK	1 4%	24 96%	25 100%
HUAI NAM YEN		12 100%	12 100%
HUAI BONG		8 100%	8 100%
HUAI MEE		19 100%	19 100%
HUAI HUNG		2 100%	2 100%
HUAI RAI		5 100%	5 100%
KAENG HOM KAREN	14 64%	8 36%	22 100%
KAENG HOM MEO	12 46%	14 54%	26 100%
TOTAL	29 22%	100 78%	129 100%

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

Units: Households

	HAD PAST YEAR		TOTAL
	YES	NO	
PHA SAMRAN	6 60%	4 40%	10 100%
MAK PHRIK	6 24%	19 76%	25 100%
HUAI NAM YEN	2 17%	10 83%	12 100%
HUAI BONG	3 38%	5 63%	8 100%
HUAI MEE	6 32%	13 68%	19 100%
HUAI HUNG	1 50%	1 50%	2 100%
HUAI RAI	2 40%	3 60%	5 100%
KAENG HOM KAREN	10 45%	12 55%	22 100%
KAENG HOM MEO	8 31%	18 69%	26 100%
TOTAL	44 34%	85 66%	129 100%

Table H23. HOUSEHOLDS WITH PERSONS STILL ILL WITH MALARIA

Units: Households

	ILL	CURED	TOTAL
PHA SAMRAN	2 33%	4 67%	6 100%
MAK PHRIK	3 50%	3 50%	6 100%
HUAI NAM YEN	1 50%	1 50%	2 100%
HUAI BONG		3 100%	3 100%
HUAI MEE	1 17%	5 83%	6 100%
HUAI HUNG		1 100%	1 100%
HUAI RAI		2 100%	2 100%
KAENG HOM KAREN	3 30%	7 70%	10 100%
KAENG HOM MEO	2 25%	6 75%	8 100%
TOTAL	12 27%	32 73%	44 100%

Table H24. HOUSEHOLDS WITH OPIUM ADDICT

Units: Households

	OPIUM ADDICT		TOTAL
	YES	NO	
PHA SAMRAN	5 50%	5 50%	10 100%
MAK PHRIK	2 8%	23 92%	25 100%
HUAI NAM YEN		12 100%	12 100%
HUAI BONG	2 25%	6 75%	8 100%
HUAI MEE	1 5%	18 95%	19 100%
HUAI HUNG	1 50%	1 50%	2 100%
HUAI RAI	3 60%	2 40%	5 100%
KAENG HOM KAREN	5 23%	17 77%	22 100%
KAENG HOM MEO	4 15%	22 85%	26 100%
TOTAL	23 18%	106 82%	129 100%

Table H25. HOUSEHOLDS ENGAGING IN SHIFTING CULTIVATION

Units: Households

	SHIFT FIELDS		TOTAL
	YES	NO	
PHA SAMRAN	2 20%	8 80%	10 100%
MAK PHRIK	7 28%	18 72%	25 100%
HUAI NAM YEN	2 17%	10 83%	12 100%
HUAI BONG	2 25%	6 75%	8 100%
HUAI MEE	9 47%	10 53%	19 100%
HUAI HUNG	2 100%		2 100%
HUAI RAI		5 100%	5 100%
KAENG HOM KAREN	10 45%	12 55%	22 100%
KAENG HOM MEO	9 35%	17 65%	26 100%
TOTAL	43 33%	86 67%	129 100%



Table H26. AVERAGE YEARS UPLAND FIELDS USED/FALLOWED

Units: Years

	YEARS FIELD USED		YEARS FIELDS FALLOWED	
	n	MEAN	n	MEAN
PHA SAMRAN	10	2.0	10	3.3
MAK PHRIK	25	2.0	25	2.3
HUAI NAM YEN	12	1.0	12	1.5
HUAI BONG	8	1.0	8	11.5
HUAI MEE	19	1.1	19	6.0
HUAI HUNG	2	1.0	2	6.0
KAENG HOM KAREN		1.2		4.6
KAENG HOM MEO	26	3.0	26	4.7
TOTAL	129	1.7	129	4.7

Table H27. AVERAGE TOTAL CULTIVATED AREA PER HOUSEHOLD

Units: Rai

	AREA	
	n	MEAN
PHA SAMRAN	10	10.4
MAK PHRIK	25	11.7
HUAI NAM YEN	12	11.7
HUAI BONG	8	4.4
HUAI MEE	19	4.5
HUAI HUNG	2	27.5
HUAI RAI	3	1.3
KAENG HOM KAREN	22	11.1
KAENG HOM MEO	26	23.9
TOTAL	127	12.5

Table H28. HOUSEHOLDS USING ANIMAL MANURE FOR FERTILIZER

Units: Households

	USE	NOT USE	TOTAL
PHA SAMRAN	1 10%	9 90%	10 100%
MAK PHRIK	3 12%	22 88%	25 100%
HUAI NAM YEN		12 100%	12 100%
HUAI BONG	2 25%	6 75%	8 100%
HUAI MEE	5 26%	14 74%	19 100%
HUAI HUNG	1 50%	1 50%	2 100%
HUAI RAI		5 100%	5 100%
KAENG HOM KAREN	5 23%	17 77%	22 100%
KAENG HOM MEO	6 23%	20 77%	26 100%
TOTAL	23 18%	106 82%	129 100%

Table H29. HOUSEHOLDS WITH KITCHEN GARDENS

Units: Households

	HAVE	NONE	TOTAL
PHA SAMRAN	3 30%	7 70%	10 100%
MAK PHRIK	7 28%	18 72%	25 100%
HUAI NAM YEN	2 17%	10 83%	12 100%
HUAI BONG	3 38%	5 63%	8 100%
HUAI MEE	13 68%	6 32%	19 100%
HUAI HUNG	1 50%	1 50%	2 100%
HUAI RAI		5 100%	5 100%
KAENG HOM KAREN	12 55%	10 45%	22 100%
KAENG HOM MEO	13 50%	13 50%	26 100%
TOTAL	54 42%	75 58%	129 100%

Table H30. MONTHS HOUSEHOLD HAS INSUFFICIENT RICE

Units: Households

	NONE	1 TO 3 MONTHS	4 TO 6 MONTHS	7 TO 9 MONTHS	10 TO 12	TOTAL
PHA SAMRAN	3 30%	3 30%	3 30%		1 10%	10 100%
MAK PHRIK	10 40%	7 28%	2 8%	5 20%	1 4%	25 100%
HUAI NAM YEN	3 25%	1 8%	3 25%	4 33%	1 8%	12 100%
HUAI BONG	1 13%	2 25%	1 13%	3 38%	1 13%	8 100%
HUAI MEE	3 16%	4 21%	8 42%	3 16%	1 5%	19 100%
HUAI HUNG		1 50%	1 50%			2 100%
HUAI RAI	1 20%	1 20%	1 20%		2 40%	5 100%
KAENG HOM KAREN	9 41%	8 36%	4 18%		1 5%	22 100%
KAENG HOM MEO	16 62%	5 19%	5 19%			26 100%
TOTAL	46 36%	32 25%	28 22%	15 12%	8 6%	129 100%

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

Units: Kilograms

	SEED PLANTED		TOTAL YIELD		RATIO	
	Valid N	MEAN	Valid N	MEAN	Valid N	MEAN
PHA SAMRAN	10	64.3	10	2207	10	34.6
MAK PHRIK	23	48.4	23	1776	23	45.7
HUAI NAM YEN	12	37.8	12	1188	12	25.5
HUAI BONG	3	38.0	3	310	3	7.6
HUAI MEE	16	65.8	16	867	16	14.9
HUAI HUNG	2	127.5	2	1650	2	13.1
HUAI RAI	2	36.0	2	900	2	25.0
KAENG HOM						
KAREN	21	104.1	21	1631	21	21.4
KAENG HOM MEO	26	99.3	26	3385	26	36.4
TOTAL	115	73.7	115	1907	115	29.9

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

Units: Kilograms

	SEED PLANTED		TOTAL YIELD		RATIO	
	Valid N	MEAN	Valid N	MEAN	Valid N	MEAN
MAK PHRIK	1	30.0	1	1500	1	50.0
HUAI BONG	4	27.0	4	1985	4	57.8
HUAI MEE	13	35.9	13	1404	13	50.0
HUAI RAI	3	357.0	3	1965	3	40.5
KAENG HOM						
KAREN	11	35.8	11	1899	11	47.6
TOTAL	32	64.7	32	1702	32	49.3

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

Table H33. AVERAGE AMOUNT AND VALUE OF RICE SOLD

Units: Value in Baht

	PADDY RICE				MILLED RICE			
	AMOUNT (KG)		VALUE		AMOUNT (KG)		VALUE	
	Valid N	MEAN	Valid N	MEAN	Valid N	MEAN	Valid N	MEAN
HUAI NAM YEN					1	1080	1	5000
HUAI RAI	1	540	1	1200				
KAENG HOM								
KAREN	4	221	4	570				
KAENG HOM MEO	1	1200	1	5000				
TOTAL	6	437	6	1413	1	1080	1	5000

Table H34. AVERAGE AMOUNT AND VALUE OF RICE BOUGHT

Units: Value in Baht

	PADDY RICE				MILLED RICE			
	AMOUNT (KG)		VALUE		AMOUNT (KG)		VALUE	
	Valid N	MEAN	Valid N	MEAN	Valid N	MEAN	Valid N	MEAN
PHA SAMRAN	1	75.0	1	450	5	594	5	3800
MAK PHRIK	8	683	8	3263	8	229	8	2113
HUAI NAM YEN	6	2120	6	5900	4	338	4	2955
HUAI BONG					7	707	7	4626
HUAI MEE	10	638	10	1775	13	204	13	1351
HUAI HUNG	1	45.0	1	120	2	45.0	2	265
HUAI RAI					2	315	2	2450
KAENG HOM								
KAREN	9	383	9	1489	8	121	8	910
KAENG HOM MEO	6	853	6	1650	4	548	4	3835
TOTAL	41	811	41	2515	53	333	53	2372

Table H35. AVERAGE AMOUNT AND VALUE OF RICE BORROWED

Units: Value in Baht

	PADDY RICE				MILLED RICE			
	AMOUNT (KG)		VALUE		AMOUNT (KG)		VALUE	
	Valid N	MEAN	Valid N	MEAN	Valid N	MEAN	Valid N	MEAN
MAK PHRIK	3	290	3	2267				
HUAI NAM YEN	2	285	2	1000				
HUAI BONG	1	240	1	640				
HUAI NEE	3	175	3	527				
KAENG HOM KAREN	2	90.0	2	238				
KAENG HOM MEO	3	140	3	567				
TOTAL	14	200	14	943				

Table H36. CHILI PRODUCTION

Units: Yield, Amount sold in kilograms; value in Baht

	AVG. YIELD		AMOUNT SOLD		VALUE SOLD	
	Valid N	MEAN	Valid N	MEAN	Valid N	MEAN
HUAI BONG	2	39	2	30	2	375
HUAI MEE	6	29	4	259	4	388
KAENG HOM KAREN	5	17	2	3	2	175
TOTAL	13	26	8	138	8	331

Table H37. SESAME PRODUCTION

Units: Yield, Amount sold in kilograms; value in Baht

	AVG. YIELD		AMOUNT SOLD		VALUE SOLD	
	Valid N	MEAN	Valid N	MEAN	Valid N	MEAN
HUAI MEE	2	26	.	.	.	.
KAENG HOM KAREN	1	96	1	7	1	600
KAENG HOM MEO	1	19	.	.	.	.
TOTAL	4	42	1	7	1	600



Table H38. SOYBEAN PRODUCTION

Units: Yield, Amount sold in kilograms; value in Baht

	AVG. YIELD		AMOUNT SOLD		VALUE SOLD	
	Valid N	MEAN	Valid N	MEAN	Valid N	MEAN
PHA SAMRAN	10	1436	10	1794	10	9207
MAK PHRIK	1	300	1	20	1	2500
HUAI BONG	7	913	7	257	7	5958
HUAI MEE	1	60				
HUAI HUNG	1	150	1	10	1	800
KAENG HOM KAREN	9	244	8	101	8	1365
KAENG HOM MEO	7	932	7	62	7	3591
TOTAL	36	833	34	618	34	5092

Table H39. CORN PRODUCTION

Units: Yield, Amount sold in kilograms; value in Baht

	AVG. YIELD		AMOUNT SOLD		VALUE SOLD	
	Valid N	MEAN	Valid N	MEAN	Valid N	MEAN
PHA SAMRAN	5	1060				
MAK PHRIK	19	921	3	53	3	1333
HUAI NAM YEN	8	1821	1	5	1	150
HUAI MEE	2	885				
HUAI RAI	1	100			1	100
KAENG HOM KAREN	7	287				
KAENG HOM MEO	14	2627	1	100	1	1500
TOTAL	56	1393	5	53	6	958

Table H40. PUMPKIN PRODUCTION

Units: Yield, Amount sold in kilograms; value in Baht

	AVG. YIELD		AMOUNT SOLD		VALUE SOLD	
	Valid N	MEAN	Valid N	MEAN	Valid N	MEAN
PHA SAMRAN	1	300		.		.
MAK PHRIK	2	175		.		.
HUAI MEE	3	115		.		.
KAENG HOM KAREN	3	146	2	13	2	28
KAENG HOM MEO	1	250		.		.
TOTAL	10	168	2	13	2	28

Note: No mungbean was grown in this project area.

Table H41. VALUE OF OTHER FIELD CROPS SOLD

Units: Baht

	VALUE SOLD	
	Valid N	MEAN
MAK PHRIK	8	5219
HUAI BONG	1	1500
HUAI MEE	1	3000
HUAI HUNG	1	120
KAENG HOM KAREN	1	5000
KAENG HOM MEO	3	2367
TOTAL	15	3898

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

Units: Households selling

	CHILI		SOYBEAN		CORN
	IN VILLAGE	OUTSIDE VILLAGE	IN VILLAGE	OUTSIDE VILLAGE	OUTSIDE VILLAGE
PHA SAMRAN			6 60%	4 40%	
MAK PHRIK				1 100%	1 100%
HUAI BONG	2 100%		2 67%	1 33%	
HUAI MEE	1 50%	1 50%			
HUAI HUNG				1 100%	
HUAI RAI					1 100%
KAENG HOM KAREN			1 100%		
KAENG HOM MEO			3 75%	1 25%	
TOTAL	3 75%	1 25%	12 60%	8 40%	2 100%

Note: No sesame, mungbean, pumpkin, coffee, jackfruit, mango or peach were sold in this project area.

Table H43. COFFEE PRODUCTION

Units: Yield, Amount sold in kilograms; value in Baht

	TOTAL TREES		TOTAL YIELD		AMOUNT SOLD		VALUE SOLD	
	Valid N	MEAN	Valid N	MEAN	Valid N	MEAN	Valid N	MEAN
MAK PHRIK	2	1800		.		.		.
HUAI BONG	1	3.0		.		.		.
HUAI MEE	3	15.0		.		.		.
HUAI HUNG	1	10.0		.		.		.
KAENG HOM				.		.		.
KAREN	11	73.1	4	3.5	2	4.0	2	138
KAENG HOM MEO	3	8.0		.		.		.
TOTAL	21	214	4	3.5	2	4.0	2	138

Table H44. JACKFRUIT PRODUCTION

Units: Yield, Amount sold in kilograms; value in Baht

	TOTAL TREES		TOTAL YIELD		AMOUNT SOLD		VALUE SOLD	
	Valid N	MEAN	Valid N	MEAN	Valid N	MEAN	Valid N	MEAN
PHA SAMRAN	1	1.0		.		.		.
MAK PHRIK	2	3.5		.		.		.
HUAI BONG	1	1.0	1	50.0	1	20.0	1	60.0
HUAI MEE	8	6.9		.		.		.
HUAI RAI	1	2.0		.		.		.
KAENG HOM				.		.		.
KAREN	10	2.5		.		.		.
KAENG HOM MEO	5	6.8		.		.		.
TOTAL	28	4.5	1	50.0	1	20.0	1	60.0

Table H45. MANGO PRODUCTION

Units: Yield, Amount sold in kilograms; value in Baht

	TOTAL TREES		TOTAL YIELD		AMOUNT SOLD		VALUE SOLD	
	Valid N	MEAN	Valid N	MEAN	Valid N	MEAN	Valid N	MEAN
PHA SAMRAN	3	3.0						
MAK PHRIK	6	12.8	1	30.0				
HUAI NAM YEN	1	2.0						
HUAI BONG	6	8.7	1	200	1	65.0	1	60.0
HUAI MEE	15	8.2	2	65.0				
HUAI LUNG	1	1.0						
HUAI RAI	2	6.0						
KAENG HOM KAREN	20	9.6	2	35.0				
KAENG HOM MEO	9	9.4	2	300				
TOTAL	63	8.8	8	129	1	65.0	1	60.0

Table H46. PEACH PRODUCTION

Units: Yield, Amount sold in kilograms; value in Baht

	TOTAL TREES		TOTAL YIELD		AMOUNT SOLD		VALUE SOLD	
	Valid N	MEAN	Valid N	MEAN	Valid N	MEAN	Valid N	MEAN
MAK PHRIK	4	13.0	1	100				
HUAI RAI	1	2.0						
KAENG HOM KAREN	2	1.0						
KAENG HOM MEO	1	5.0						
TOTAL	8	7.6	1	100				

Table B47. LIVESTOCK SITUATION: CHICKENS

Units: Animals

	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	
PHA SAMRAN	10	10	24.9	1	15.0	1	400.0	2	17.5	7	9.3
MAK PHRIK	25	21	15.8					9	17.1	15	16.9
HUAI NAM YEN	12	6	7.4	1	3.0	1	51.0	6	26.7	6	9.7
HUAI BONG	8	7	16.9	2	4.5	2	45.0	2	3.0	6	9.7
HUAI MEE	19	19	12.3	8	3.5	8	87.5	5	14.0	19	7.6
HUAI HUNG	2	2	3.0	1	5.0	1	70.0			2	2.0
HUAI RAI	5	5	19.0							2	17.5
KAENG HOM											
KAREN	22	22	12.2	6	3.5	6	100.5	13	41.1	17	5.5
KAENG HOM MEO	26	24	11.0	1	6.0	1	200.0	21	36.2	17	9.4
TOTAL	129	116	13.5	20	4.4	20	105.8	55	29.6	91	10.1

Table B48. LIVESTOCK SITUATION: DUCKS

Units: Animals

	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	
PHA SAMRAN	10	2	5.0							1	1.0
MAK PHRIK	25	1	4.0							1	4.0
HUAI NAM YEN	12	1	1.0								
HUAI BONG	8	1	4.0								
KAENG HOM											
KAREN	22	7	3.7	1	6.0	1	210.0	1	1.0	2	3.0
KAENG HOM MEO	26	3	10.7								
TOTAL	129	15	5.1	1	6.0	1	210.0	1	1.0	4	2.5

Table H49. LIVESTOCK SITUATION: PIGS

Units: Animals

	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	
PHS SAMRAN	10	9	11.7	2	4.5	2	1750	1	4.0	5	4.0
MAK PHRIK	25	23	5.3					1	5.0	14	6.4
HUAI NAM YEN	12	10	4.6	2	1.0	2	1250	1	4.0	5	2.0
HUAI BONG	8	8	5.0	5	3.4	5	1100	2	1.0	2	2.5
HUAI MEE	19	17	2.3	11	1.5	11	968.2	1	1.0	11	1.6
HUAI HUNG	2	2	2.0	1	1.0	1	500.0			1	1.0
HUAI RAI	5	5	1.4	1	6.0	1	1500			1	1.0
KAENG HOM											
KAREN	22	20	3.4	11	1.5	11	1003	6	2.2	11	2.0
KAENG HOM MEO	26	26	5.3	3	3.0	3	850.0	14	4.1	20	3.1
TOTAL	129	120	5.4	36	2.2	36	1048	26	3.3	70	3.3

Table H50. LIVESTOCK SITUATION: GOATS

Units: Animals

	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	
KAENG HOM											
KAREN	22			1	4.0	1	500.0	1	5.0	1	5.0
KAENG HOM MEO		1	8.0								
TOTAL	129	1	8.0	1	4.0	1	500.0	1	5.0	1	5.0

Table H51. LIVESTOCK SITUATION: CATTLE

Units: Animals

	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	
MAK PHRIK	25	5	12.6	3	4.7	3	11833			1	1.0
HUAI NAM YEN	12	2	24.0								
HUAI BONG	5	4	6.0					1	1.0		
HUAI MEE	19	10	2.5	8	1.4	5	2513	3	1.3		
HUAI HUNG	2	2	6.0								
KAENG HOM											
KAREN	22	17	3.2	6	1.2	6	2950	1	2.0	1	1.0
KAENG HOM MED	26	16	9.6	5	2.0	5	7000	1	1.0	1	1.0
TOTAL	129	56	6.8	22	1.9	22	4923	6	1.3	3	1.0

Table H52. LIVESTOCK SITUATION: BUFFALO

Units: Animals

	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	
MAK PHRIK	25	2	16.5	1	2.0	1	16000	1	4.0	1	3.0
HUAI NAM YEN	12	1	67.0								
HUAI BONG	5	5	3.0					2	1.0		
HUAI MEE	19	10	2.4	4	1.3	4	6375	2	1.5		
HUAI RAI	5	2	4.5	1	1.0	1	4200				
KAENG HOM											
KAREN	22	12	2.3	2	2.0	2	6250	5	2.5		
KAENG HOM MED	26	3	6.0	2	1.0	2	5500	1	1.0		
TOTAL	129	35	5.5	10	1.4	10	6920	11	2.2	1	3.0



Table B53. LIVESTOCK SITUATION: HCEBES

Units: Animals

	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	
PHA SAMRAN	10	9	3.4					1	1.0		
MAK PHEIK	25	5	1.0	1	5.0	1	7500	1	1.0		
HUAI NAM YEN	12	3	1.0	1	1.0	1	1500				
HUAI MEE	19	1	6.0	1	6.0	1	4000				
KAENG HOM KAREN	22	1	4.0								
KAENG HOM MEO	26	6	4.8	2	1.0	2	2000	2	1.0		
TOTAL	129	25	3.2	5	3.2	5	3400	4	1.0		

Note: No elephants owned in this project area.