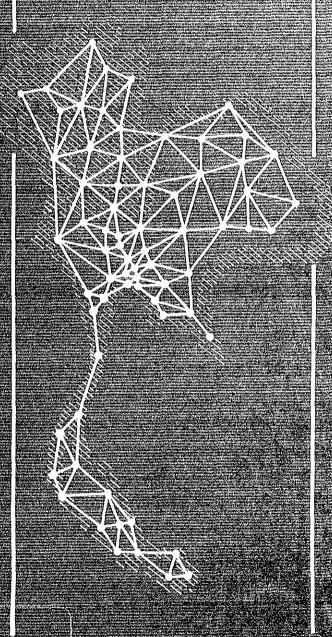
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FINAL REPORT VOLUME 2 APPENDIXES JUNE 1981

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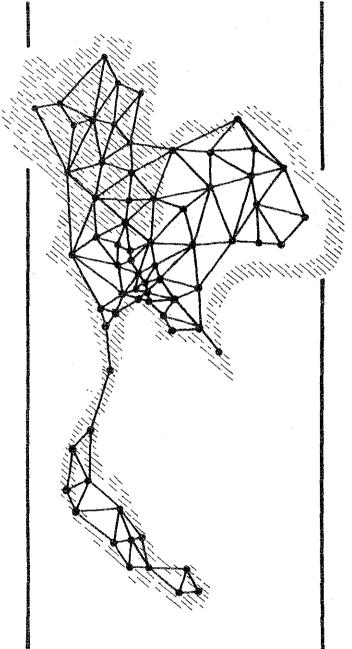
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THE KINGDOM OF THAILAND MINISTRY OF COMMUNICATIONS DEPARTMENT OF HIGHWAYS

ROAD DEVELOPMENT STUDY IN THE NORTHERN REGION



PHASE 1: PLANNING

FINAL REPORT
VOLUME 2 APPENDIXES
JUNE 1981

JAPAN INTERNATIONAL COOPERATION AGENCY

ROAD DEVELOPMENT STUDY IN THE NORTHERN REGION PHASE 1: PLANNING VOLUME 2 APPENDIXES

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APPENDIX	5	IDENTIFICATION OF ROUTES (Related to Chapter 5 of Volume 1)
APPENDIX	6	EVALUATION OF ROUTES (Related to Chapter 6 of Volume 1)

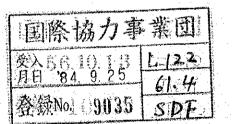


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Appendix 2-1 POPULATION BY TAMBON IN THE NORTHERN REGION

NAKHON SAWAN

Amj	ohoe		Tambon	No.of				phoe		Tambon		No.of		Am _F	noe		Tambon	No.of	=
ndex		Index	The state of the s	Mu	Popu-	Ī	ndex		Index			Mu	Popu-	Index	 	Index		Mu	Popu-
No.	Name	No.	Name	Ban	<u>lation</u>		No.	Name	No.	Name		Ban	lation	No.	Name	No.	<u>Name</u>	Ban	lation
				*			•							. :					
1.	Muang	1.	Pak Nam Pho	1	56,540		4.	Kao	1.	Maha Pho		. 5	4,730	8.	Takhli	1.	Takhli	20	47,76
	Nakhon	2.	Klang Daet	6	2,810			Lieo	2.	Kao Lieo	•	5	6,010			2.	Chong Khae	1.7	13,29
	Sawan	3.	Krieng Krai	10	5,240				3.	Nong Tao		9	5,970			3.	Chan Saen	9	16,19
		4.	Kwae Yai	10	6,710				4.	Khao Din		11	5,530			4.	Huai Hom	1.0	5,79
		5.	Takian Luen	1.2	5,230				5.	Hua Dong		1.2	8,230			5.	Hua Whai	10	5,94
		6.	Nakhon Sawan (W)	. 10	24,720			٠.		of published	•	(42)	(30,480)			6.	Nong Pho	11	8,84
		7.	Nakhon Sawan (E)	8	17,590										*	7.	Nong Mhoe	5	3,39
		8.	Ban Phra Luang	6	2,550		5. 0	Chumsaeng	1.	Chumsaeng		1	14,210			8.	Sroy Thong	7	4,47
	•	9.	Bang Muang	8	4,790				2.	Tubkrit		15	15,440			9.	Lat Tiprot	5	3,28
-	,	10.	Ban Maklua	10	8,360				3.	Phikun		10	4,570	•				(94)	(108,9
		11.	Ban Kaeng	11	6.880			•	4	Kheychai	•	16	7,810		•				
		12.	Phra Non	10	10,260				5.	Tha Mai		10	8,730	9.	Tha Tako	1.	Tha Tako	5	9,64
		13.	Wat Sai	15	8,130				6.	Bang Khien		14	5,320			2.	Phanom Rok	. 8	6,6
		14.	Nong Krot	12	14,480				7.	Nong Krachao		12	7,250	•	•	3.	Hua Thanon	. 8	8,9
		15.	Nong Kra Don	16	15,120				8.	Pun Lan		8	4,480			4.	Sai Lumpong	12	9,6
		16.	Nong Pling	6	8,720	100		200	9.	Khok Moh		8	4,410			5.	Wang Mahakorn	10	6,9
				(151)	(198,110)	•			10.	Phai Sing		10	4,090			6.	Don Kha	8	11.5
					,,	* *			11.	Kha Mong		8	4,400			7.	Tam Nop	5	4,9
2.	Lat Yao	1.	Lat Yao	18	26,850					******		(112)	(79,710)	•		8.	Wang Yai	8	3,2
	20.0 100	2.	Huai Nam Hom	9.	17,970			100				(112,	(75,710,		* *	9.	Phanom Saet	. 8	5,3
		3.	Wang Mha	15	6,890		6.	Krok	1.	Krok Phra	•	Ω	6,780			10.	Nong Luanq	. 6	5,5
		4.	Wang Muang	10	3,810		· ·	Phra	2.	Yang Tan		8					stong many	(78)	(72,5
	•	5.	Sroy Lakorn	9	3,710			rura	3.	Bang Ma Vho		o ·	3,560					(10)	. (124
		_	Marb Ghae	-								ò	3,960	10	Phaisal	i 1.	Khok Dua	77	12,2
		6.	·	6	3,670	•	-		4.	Bang Pramung		8	5,290		Fliaisai	2.	Samrong Chai	11	
		7.	Nong Yao	9	4,870	100			5.	Na Klang		6	2,800					11	12,7
		8.	Nong Nom Whoe	9	6,910				6.	Sala Daeng		. 5	2,660			3].	Wang Nam Lat	11	16,3
		9.	Ban Rai	12	12,110				/•	Noen Khow		-	2,900			4.	Ta Kraw	6	11,7
		10.	Nong Khi Laek	10	7,270				8.	Noen Sala		8	2,850			5.	Pho Prasat	10	3,6
		11.	Mae Lae	7	15,560				9.	Hat Sung		6	2,360	•		6.	Wang Khoi	6	4,1
		12.	Mae Wong	13	16,030	•						(61)	(33,170)					(55)	(60,8
				(127)	(125,640)	•		_ •											
					4.5			Phayuha		Phayuha	4	8.	10,700	11.	Nong Bu		Nong Bua	12	10.5
3.	Banphot	1.	Tha Ngiu	6	8,550	2"	. 1	Khiri	2.	Noen Makok	*	11	6.330			2.	Nong Klub	17	17,2
	Phisai	2.	Bang Ta Ngay	1.0	13,590				3.	Nikhom Khao Bo	o Kaew	10	7,220			3.	Than Thahan	14	16,3
		3.	Hoo Kwang	4	4,550			* **.	4.	Muang Huk		10	2,470	•		4.	Huai Ruam	11.	4,6
		4.	Ang Thong	4	3,480				5.	Yang Khao	÷	8	4,450			5.	Huai Tua Tai	7	2,3
		5.	Ban Daen	- 8	7,430				6.	Yaan Matree	4	18	8,280			6.	Huai Tua Nua	9	4,6
		6.	Bang Kaew	6	6,910			· · · · · · · · · · · · · · · · · · ·	7.	Khao Thong	_	11	9,090			7.	Huai Yai	6	2,9
		7.	Ta Kheet	9	9,030	*			8.	Tha Nam Oey		8	3,510					(76)	(58,6
		8.	Ta Sung	6	5,570	* -		-	9.	Nam Song		10	7,130		•	-	•		
		9.	Dan Chang	8	5,720				10.	Khao Gala		10	8,220	10	me !- 12		m-1- T-	7.0	
		10.	Nong Krot	10	9,870							(104)	(67,410)	12.	Tak Fa	1	Tak Fa	12	8,3
		11.	Nong Ta Ngu	11	10,190		-	4 1 2								2.	Lam Phayom	1.0	5,4
				(82)	(84,890)		٠									3.	Suk Samran	11	6,8
								1.1	**				•			4.	Nong Phikun	10	3,
		·····														5,.	Phu Nok Yoong	*10	3,5
our	ce : Dir	ectory	of Local Governmen	t: Tocal	Governme	nt Adm	ninie	tration	Admini	stration Dona-	tmont					6.	Ud om Tanya	12	8,3
	Min	istry	of Interior, 1979.	,	- GOVCE+IMIC	ACH	er-restran	CIG CIOII,	أ اللَّالِينَانِينَ	repar	wiicii (,)	:						(65)	(36,0
-			population is roun						"					(12)				•	
																(112)		(1,047)	(956

Remarks: Number of population is rounded.

* Number of Tambon in Municipal Area.

PHICHIT

PHITSANULOK

An	ıphoe		Tambon	No.of		Am	phoe		Tambon	No.o	f	An	iphoe	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Tambon		
Index		Index	<u></u>	Mu	Popu-	Index		Inde	Κ.	Mu	Popu-	Index		Index	**************************************	No.a Mu	
No.	Name	No.	Name	Ban	lation	No.	Name	No.		Ban	lation	No.	Name	No.	Name	Ban	-
4				_ *	15 200		-			*		•					
1.	Muang	1.	Nai Muang	.T	17,120	4.	Bang Mun	1.	Bang Mun Nak	.1	11,110	1.	Muang	1.	Nai Muang	1*	73,450
٠	Phichit	2.	Phai Kwang	8 .	3,140		Nak	2.	Bang Phai	13	6,480		Phitsa-	2.	Wang Nam Khou	12	4,090
		3.	Yan Yao	8	5,620			3.	Ho Krai	. 8	5,750		nulok	3.	Wat Chan	5	3,380
		4.	Tha Lo	6	7.,070			4.	Noen Ma Kok	. 9	8,110			4.	Wat Prik	16	11,050
		5.	Pak Thang	8	3,390			. 5.	Wang Samrong	7	5,110			5.	Tha Thong	8	5,703
		6.	Klong Khachain	6	4,350			6.	Phum	10	5,560			6.	Tha Pho	9	8,010
		7.	Rong Chang	-6	3,770			7.	Wang Krot	6	4,940			7.	Samoe Khae	5	6,040
		8.	Muang Kao	6	5,150			8.	Huai Khen	7	4,660			8.	Don Thong	11	10,490
		9.	Tha Luang	. 9	4,780			9.	Wang Tagou	12	6,480			9.	Ban Pa	9	4,910
		10.	Ban Bung	1.1	9,890			10.	Samnak Khun	9	6 , 750			10.	Pak Toke	7	3,750
		11.	Kha Mang	12	5,800			11.	Huai Phuk	.9	6,040	•		11.	Hua Rau	9	11,140
		12.	Dong Pakham	13	7,370	-		I2.	Huai Ruam	. 8	6,630			12.	Chom Thong	8	3,310
		13.	Hua Dong	. 7	15,110			13.	Wang Ngiu	. 7	5,150			13.	Ban Krang	13	13,490
		14.	Nong Plong	6	6,010					(106)	(82,770)			14.	Ban Klong	2	6,970
		1.5.	Pa Makap	13	9,160									15.	Plai Chumphol	ξ.	3,940
		16.	Sak Laek	11	19,200	5.	Pho Thale	1.	Pho Thale	. 5	7,670	,		16.	Makham Soong	8	
		17.	Tha Yiem	14	14,490			2.	Tai Nam	6	6,180				Aranyik	8	5,740
					(141,410)			3.	Tha Nong	9	7,510			17 18**	Bung Phra	0	10,240
				•	· · · · · · · · · · · · · · · · · · ·			4.	Tha Bua	7	5,220			10.	Build Filta	(1 = 5)	
2.	Sam Ngam	1.	Sam Ngam	12	10,910	. •		5.	Thung Noi	5	3,320					(136)	(189,710)
		2.	Kamphaeng Din	11	6,850		•	6.	Tha Khamin	8	4,030						
		3.	Rung Nok	1.0	7,520			7.	Tha Sao	0	5,890		** The	Tambo	n is separated fro	om Tambor	225
		4	Nong Lum	13	11,500			8.	Bang Klan	6						an redubor	12 0 0
		5.	Ban Na	12				9.	_	. 0	3,830	ว	D	1	-i	1.1	12.650
		6.			13,530				Bang Lai	8	6,490	2.	Phrom	1.	Phrom Phiram	11	13,650
		٥.	Noen Po	15	12,140			10.	Bung Na Rang	/	7,160		Phiram	2.	Tha Chang	12	9,230
				(73)	(62,450)			11.	Tha Nang	5	2,810			3.	Wong Kong	9	11,570
								12.	Bang Noi	6	3,550			4.	Ma Toom	5	2,870
				*				13.	Wat Kwang	6	3,780			5 .,	Ho Klong	5	6,840
3.	Taphan	l.	Taphan Hin	1	15,660					(86)	(67,420)			6.	Si Phirom	10	6,530
	Hin	2.	Tup Klao	7	20,300									7.	Talook Tiam	7	3,600
	•	3.	Ngiu Rai	5	8,390									8.	Wang Won	7	3,850
		4.	Huai Kaet	: 9	8,100						20 A			9.	Nong Khaen	9	5,4%0
		5.	Sai Rongkhon	• 5	3,620	6.	Pho	1.	Pho Prathap Chang	7	4,690			10.	Ma Tong	. 8	7,740
	•	6.	Nong Phayom	1.1	15,610		Prathap	2.	Phai Tha Pho	6	7,630	•		11.	Thap Yaychiang	5	3,450
		7.	Tung Pho	7	3,490	e,	Chang	- 3.	Wang Chik	8	4.830		-	12.	Dong Prakham	7	6,430
		8.	Dong Takop	8	4,300			4.	Phai Rob	12	6,700				-	(95)	(81,230)
		9.	Tai Tung	14	9,100			5.	Dong Sua Lueng	7	8,510				4	(0-7	(,
		10.	Klong Khoon	5	3,620	· ·		6.	Noen Sawang	7	4,870	3.	Wat Bot	1.	Wat Bot	8	11,590
		11.	Wang Samrong	10	7,650					(47)	(37,230)		mac boc	2.	Tha Ngam	8	6,340
		12.	Wang Wha	5	3,700									3.	Tho Thae	0	5,000
			. -	. 0	13,650	7.	Wang	1.	Wang Sai Phun	9 -	11,550				•	7	
		13.	Khao Sai	. 8			Sai	2.	Nong Pla Lai	10	9,140			4.	Ban Yang	/	4,440
			Khao Taet Louk	Ö	7,760		Phun	3.	Nong Phra					5.	Hin Lat	9	3,690
		15.	Wang Lum				FIIGH	٠,٠	Nong Phra	9	9,460			6.	Kun Chong	6	2,760
				(TO3) (124,950)	•				(28)	(30,150)					(46)	(33,820)
	↓↓ Tho	Tambor	is separated from	n Tambon 2	8.6	(7)		(73)		(588)	(546,380)	4.	Chat	1.	Pa Daeng	14	7,990
	** ****	* OTTOOU	" no notice record in the					¥					Trakan	2.	Chat Trakan	14	5,530
			•								18 8			-3.	Suan Mieng	9	3,250
			•											4.	Ban Dong	10	3,020
					*				· ·					~x .	pan pond	7.0	21020

PHITSANULOK (Continued)

UTTARADIT

A	nphoe		Tambon		<i>c</i>		Amphoe		Tambon	نام درمود ۱۳۰۰ می می مواهد آن به با داده شده می مواهد شده باید و از در مواهد باید این مواهد به باید و این مواه ما نقص	Za TikumBurmaki Nazirikani katikuk Hudi Studi at	Am	phoe		Tambon		<i>E</i>
Inde	·	Index	and the second s	No.o Mu	r Popu-	-		Index		No.of Mu	Popu-	Index	-	Index	**************************************	No.o Mu	r Popu-
No.		No.	Name		lation	Inde				Ban	lation	No.	Name	No.	Name	Ban	lation
	Name	NO.	Nane	Ban	_ Tacton	No	. Name	No.	Name		Lacton		TACALIC.	1101	Aveille.		<u> </u>
5.	Nakhon	1.	Nakhon Thaí	18	11,530	1.	Muang	1.	Tha It	1*	30,240	6.	Tron	1.	Wang Daeng	10	14,300
	Thai	2.	Nong Katao	15	8,120		Uttaradi		Tha Sao	8	5,200		22.011	2.	Ban Kaeng	8	7,800
		3.	Ban Yaeng	13	7,200			3.	Ban Kho	. 8	6,210	•		3.	Hat Song Kwae	5	3,980
		4.	Noen Perm	1.2	5,650			4.	Pa Sao	6	4,910			4.	Nam Ang	7	6,750
		5.	Na Bua	19	7,430		4 +	5.	Khung Tapao	6	7,320			5.	Pa Khai	14	14,690
		6.	Bo Pho	10	4,940			6.	Wang Kapi	9	11,240			6.	Phag Khuang	8	6,990
		7.	Nakhon Chum	. 8	2,420		-	7.	Hat Kroat	6	11,040			7**	Nam Phi	. 5	4,370
		8.	Nam Kum	7	1,680			8.	Nam Pit	6	6,890			8,	Bo Thong	,	
				(102)	(48,970)			9.	Ngiu Ngam	11	9,550	•				(57)	(58,890)
_	5.7			3.5	00 240		1 -	10.	Ban Dan Nakham	9	9,600	•					
6.	Wang	1.	Wang Thong	16	20,140			11.	Ban Dan	8	5,730		** ጥክe	Tambo	n is separated fro	me danamin and	4 5 ~ 6
	Thong	2.	Pun Chali	8 .	9,730			12.	Pha Juke	12	13,090		2110	Zamoc	u is scharaced II(M Tambon	4, 5 & 6
		3. 4.	Mae Raka Ban Klang	12 -9	8,470			13.	Wang Din	7	4,740						
		5.	Wang Phikun	12	10,970 9,100			14.	Saen Toe	9	4,990	7	mhi shai	,			0.400
		6.	Kaeng Sopa	8	10,410			15.	Hat Ngiu	11 .	10,110	7.	Phichai	1.	Nai Muang	, 5	8,400
		7	Tha Muen Ram	11	9,780			16.	Ruan Jit	2	1,430			2.	Ban Dara	-	6,520
		8.	Wang Nok Aen	7	9,040					(119)	(142,300)			3.	Rai Oey	8	5 ,850
		9.	Nong Phra	9	8,740									4. 5.	Tha Sak Kho Rum	7	7,810
	•	10.	Chai Nam	5	5,680	2.	Fak Tha	Ι.	Fak Tha	5	4,840		4.4	5. 6.	Ban Mho	7	8,490
		J. U.	CHEL NAM	-	(102,070)			2.	Song Korn	. 5	3,050			7	Tha Ma Suang	· 6	5,890
				(27)	(102,070)			3.	Ban Seao	8	7,100			8.	Ban Khone	6	4,770
			•		•					(18)	(14,990)			9.	Phaya Man	6	5,260 5,590
7.	Bang	1.	Bang Krathum	8	6,130		4	÷						10.	Na Inn	4	3,680
	Krathum	2.	Ban Rai	10	5,990	3.	Nam Pat	l.	Saen To	6	7,640			11.	Na Yang	7	6,880
		3.	Khoak Salut	10	4,290		•	2.	Ban Fai	7	6,730			.4.1.	na rang	(67)	(69,110)
		4.	Sanam Khli	6	3,630			3.	Den Laek	6	5,130					(0,,	(05,110)
		5.	Tha Tan	7	6,280			4.	Nam Khrai	6	4,940	8.	Ban Khol	k 1.	Muang Jet Ton	6	3,430
		6.	Phai Lom	11	3,820			5.	Nam Phai	7 .	3,300			2.	Ban Khok	5	4,660
		7.	Nakhom Pa Mohk	1.3	7,110					(32)	(27,730)				*	(11)	(8,080)
		8.	Moen Khum	11	11,320								-			,,	(0,400)
		9.	Wat Ta Yom	8	7,240	4.	Tha Pla	1.	Tha Pla	8	8,460	(8)		(59)		(406)	(414,630)
				(84)	(55,810)		*	2.	Hot La	8	4,970	***************************************					
_		_		4				3.	Pha Loed	12	6,740			•			
8.	Bang	I.	Bang Rakam	19	32,990			4.	Charin	10	7,280			•			
	Rakam	2.	Pluk Raet	9	8,720			5.	Nam Muan	9	6,770	•					
		3.	Phun Sao	15	8,430			6.	Tha Fak	5	2,630						
		4.	Wang Itok	7	5,470			7	Nong Phaya	5	n.a.						
		5.	Bungkok	15	14,090	* *				(57)	(36,850)						
		6.	Nongkhula	10	10,920												
		7.	Chumsaeng Songkhram		13,880	٥.	Laplae	1.	Phanom Mat	1*	4,140				•		
				(90)	(94,500)			2.	Mae Pool	7	9,480						
0	Maan	. 1	Cham Dhu	-	7 050			3.	Na Nok Kok	4	2,300						
9.	Noen	1.	Chom Phu	5.	7,950			4	Fai Luang	7	9,450				•		
	Maprang	2.	Bang Mung	13	18,910			5.	Chai Jumpol	6	8,400						
		3. 4.	Sai Yoey Wang Prong	8 9	15,460	•		6. 7	Phai Lom	6	7,780						
		₩.	many riving		21,270			7.	Thung Yung	14	15,140				4		
				(35)	(63,590)					(45)	(56,680)				•		
(9)		(78)		(732)	(689,480)												

PHRAE

•			~	NG
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													- contraction and a second					
Am	phoe		Tambon	No.of		Am	phoe	•	Tambon		No.of		Aπ	ıphoe		Tambon	No.of	•
Index		Index		Mu	Popu-	Index		Index	·		Mu	Popu-	Index	-	Index		Mu	Popu-
No.	Name	No.	Name	Ban	lation	No.	Name	No.	Name		Ban	lation	No.	Name	No.	Name	_Ban	lation
	-	2447	14 COLIC	***	1001011													
													,	•	7	WW Common Western	*	10 620
1.	Muang	1.	Nai Wiang	1*	19,620	5.	Long	1.	Huai Ooe		14	14,120	1.	Muang	1.	Wiang Nua	1.*	10,620
	Phrae	2.	Na Chak	9	7,860			2.	Ban Pin	•	11	8,850		Lampang	2.	Hua Wiang	1*	10,610
		3.	Nam Cham	2	1,680		•	3.	Ta Pha Mhok		5 .	3,490			3.	Suan Dok	1,	7,140
		4.	Pa Daeng	14	11,370			4.	Wiang Ta		. 6	6,160		•	4.	Sop Tui	Τ	15,160
		5.	Thung Mong	6	8,730			5.	Pak Kang		7	4,090			5.	Phra Bat	8	11,510
		6.	Mhung Mho	7	8,480		* *	6.	Hua Thung		11	9,300			6.	Chom Phu	13	22,440
		7.	Wang Tong	5	3,300			7.	Thung Laeng		8	6,610			7.	Kloey Phae	5	9,040
		8.	Mae Lai	4	4,470				A North Control		(62)	(52,620)			8.	Pong Saen Thong	11	13,690
		9.	Huai Ma	6	6,460						_	0.160			9.	Ban Lang	13	11,350
		10.	Pa Mad	8	10,580	6.	Sung Me		Sung Men		6	8,160			10.	Ban Sa Det	6	7,160
		11.	Ban Tín	5	6.430	*		2.	Nam Cham		8	8,260			11.	Phichai	10	13,130
	•	12.	Suan Khuan	7	5,360			3.	Hua Fai		7	13,060			12.	Thung Fai	21 9	18,150
		13.	Wang Hong	4	2,990			4.	Don Moon		- 9	10,900			13.	Ban Ioem	9 7	8,310
		14.	Mae Kham Mi	5	6,470			5.	Ban Lao		5	4,950			14.	Ban Pao	6	6,210
		15.	Thung Khaw	4	4,450	•		6.	Ban Khwang		. 3	3,430			15.	Ban Ka	7	4,210
		16.	Tha Kham	3	4,200			·7.	Ban Pong		. 3	4,910			16.	Bo Haew	•	8,780
			•	(90)	(112,430)			8.	Ban Kart		4	3,710					(120)	(177,500)
								9.	Rong Kart		7	7,810			,	m1	10	7 000
2.	Song	1.	Ban Nun	7	14,130	٠		10.	Sop Sai		4	3,660	2.	Wang Nua	1.	Thung Hua	.10	7,930
	•	2.	Ban Klang	10	9,630			II.	Wiang Thong		8	10,470			2.	Wang Nua	10	18,860
		3.	Huai Mhai	6	ક,680			•			(64)	(79,320)			3.	Wang Tai	9	4,520
		4.	Tao Poon	5	7,460										4.	Rong Khao	10	11,610
		, 5 .	Nam Rat	3	3,920	7.	Wang	1.	Wang Chin		7	9,840					(39)	(42,930)
	-	6.	Wang Luang	4	5,150	•	Chin	2.	Sroi		9 .	6,190				e de la companya de l		24 - 2 24
		7.	Hua Muang	8	6,190			3.	Mae Pake		. 12	9,200	3.	Chae Hom	1.	Chae Hom	13	16,800
		8.	Sa Iap	8	4,880			4.	Na Poon		7	5,140			2.	Ban Sa	5	5,160
		9.	Daen Chumpol	3	3,400			5.	Mae Pung		10	7,680			3.	Pong Don	. 6	5,370
				(54)	(63,420)	*	•				(45)	(38,050)			4.	Mae Suke	5	6,830
										•		•	-	•	5.	Ban Kho	6	7,630
						(7)		(62)			(401)	(434,650)			6.	Chae Coen	11	10,480
3.	Rong	1.	Rong Khwang	. 7	8,990										7.	Muang Pan	5	5,38\$
	Kwang	2.	Nong Muang Khai	4	5,190				•						8.	Muang Mai	2	1,710
	211142229	3.	Mai Kham Mi	6	6,230										9.	Thung Khaow	. 8	8,000
		4.	Rong Khem	4	4,750				A			•			10.	Thung Phung	6	3,610
		5.	Nam Lao	5	5,690											•	(67)	(70,970)
		6.	Ban Wiang	7	6,060									4		4.		
		7.	Thung Si	5	3,190								4.	Ngao	1.	Luang Nua	5	4,660
•		8.	Mai Yang Tan	4	5,130				•					_	2.	Luang Tai	6	5,730
	•	9.	Mai Yang Hoe	7	6,140										3.	Ban Pong	6	3,840
		10.	Phai Tone	11	5,330										4.	Ban Rong	6	2,880
		10.	that lone		(56,710)										5.	Pong Tao	6	3,780
				(60)	(20 % 1.TO)		•		• •	11.		*		•	6.	Na Gae	5	5,700
Λ	n ~ .	•	Don Chai	7.0	16,640			÷				4	•	•	7.	Ban Oen	_, _	3,520
4.	Den Chai		Den Chai	10											8.	Ban Hae	Л	5,900
		2.	Mae Chua	11	10,490									•	9,	Ban Huat	7 1	2,900
		3**	Sai Yoy	5	4,980		•					:			10.	Mae Teep	4	
		4	Huai Rai		~. (22 100)										TO.	wae reeh	(5I)	5,890
				(26)	(32,100)							•				- * ·	(DT)	(44,780)

^{**} The Tambon is separated from Tambon 1, 2 & 3

LAMPANG (Continued)

7. T	74	ħΥ

Amphoe						*			Mariban			<u> </u>			The second secon	Tambon	***************************************	
Amp	phoe		Tambon	Notof			phoe		Tambon	No.				mphoe	*************	Tallbott	No.of	
Index		Index	The state of the s	Mu	Popu-	Index		Index		Mu		Popu-	Inde		Index		Mu	Popu- lation
No.	Name	No.	<u>Name</u>	Ban	lation	No.	Name	No.	Name	Bar	n.	<u>lation</u>	No.	Name	No.	Name	Ban	TACTOR
						• .												
5.	Hang	1.	Hang Chat	9 .	9,510	11.	Soem Ngan	1.	Thung Ngam	6		7,240	1.	Muang	1	Nai Wiang	* 1	22,020
٠.	Chat	2.	Nong Lom	8	4,170			2.	Serm Kwa	8		6,700		Nan	2.	Bo	5	2,520
	5144	3.	Muang Yao	10	6,060		· .	3.	Serm Sai	15		14,770			3.	Pha Sing	. 4	2,300
		4.	Pong Yang Kok	13	8,820					(29)		(28,710)			4.	Chai Sathan	9	4,670
		5.	Wiang Tan	8	6,630	-		*							5.	Thoem Tong	15	6,790
		6.	Mae San	7	4,320	12.	Mae Mo	1.	Ban Dong	1.2		14,470			6.	Rueng	6	2,970
		7.	Woe Kaew	6	4,420			2.	Na Sak	6		3,610	-		7.	Na Saew	4	2,490
				(61)	(43,920)			3.	Chang Nua	5		4,520			8.	Dou Tai	11	6,390
				• • • •						(23))	(22,600)			9.	Kong Kwai	6	5,250
6.	Ko Kha	1.	Lampang Luang	. 8	10,480					٠.					10.	Fai Kaew	15	7,760
		2,	Na Kaew	14	14,780	(12)		(83)		(620)) ((655,890)			11.	Muang Tout	5	3,670
		3.	Lai Hin	12	9,800	***************************************		·					-		12.	Tha Nao	7.	3,080
		4.	Wang Phrao	. 6	6,420			•				•			13.	Na Pung	5	3,160
		5.	Sala	7	8,140										14	Muang Chang	7	5,690
		6.	Ko Kha	12	11,550									÷	15.	Dou Pong	6	7,320
				(59)	(61, 160)							**	•		16.	Pa Laew Luang	6	3,270
									•						17.	Nam Kaen	11	4,620
7.	Mae Tha	l.	Mae Tha	6	9,430										18.	Suak	8	5,580
		. 2.	Na Krau	6	10,060												(131)	(99,560
		3.	Pha Tun	8	7,580		•											
		4.	Ban Kiew	5	4,490				*4				2.	Thung	1.	Phon	11	2,920
	•	5.	Ban Bomb	10	7,540					•				Chang	2.	Ngob	9	3,790
		, 6.	Nam Cho	7	9,050										3.	Lae	11	3,500
		7.	Don Fhai	13	8,380				*,						4.	Thung Chang	10	3,240
		8.	Hua Sua	9	7,060											4	(41)	(13,440)
		9.	Sop Paat	4	2,670											•		
	*			(68)	(66,250)								3.	Chiang	1.	Chiang Klang	15	8,990
											1			Klang	2.	Bua	10	5,500
8.	Sop Prap		Som Prap	, 8	9,890							•			3.	Chiang Khan	14	6,020
		2.	Samai	, 6	6.960		1.5								4.	Phra That	7	3,280
		3.	Mae Kwua	5	4,420										5.	Na Rai Luang	7	2,440
		4.	Na Yang	8	4,380				<u>.</u>	N.		•			6.	Chon Daen	8	1,740
	•			(27)	(25,650)					•					7.	Yot	5	1,620
0	mb	,	T P	^	15 666			÷				•					(66)	(29,590)
9.	Thoen	1.	Lom Paet	9	17,660													
		2.	Mae Wa	4.	5,920													
		3.	Mae Pa	5	3,910				•	4				_	1	Pua	1 7	12.000
		4.	Mae Mok	8	4,020		•						4.	Pua	1.	•	1.3	12,000
		5.	Wiang Mok	8	6,610				•			4			2.	Haeg Sathan	15	11,130
		6.	Na Pong	8	5,690					$e_{i}=(x_{i},x_{i},\ldots,x_{i})$					3.	Sila Laeng	17	11,470
		8.	Mae Thoot Thoen Buri	6	5,870										4.	Sila Laeng Sila Phet	22	8,860
		o.	rnoen suri	(E6)	6.640				$\mathcal{C}_{i} = \mathcal{C}_{i} = \mathcal{C}_{i} = \mathcal{C}_{i} = \mathcal{C}_{i}$						5 .	Oen	6	5,340
				(56)	(56,320)					4					6., 7.	oen Bo Klua Nua	6	3,890
1.0	Mac	1	Mae Phrik	Ω .	0 100		**************************************						•		7. 8.	Bo Klua Tai	8	3,770
10.	Mae Phrik	2		9 1	8,120										0.	po krua tar	8	3,980
	FILLK	3.	Pha Pang Mae Pu	4	1,800	•											(95)	(60,440)
		.) ,	riae ru	(20)	5,180													
	4			(20)	(15,100)						•							

NAN (Continued)

РНАУАО

Ar	iphoe		Tambon			Am	phoe		Tambon	No.of		Ar	nphoe		Tambon	No.of	
				No.of Mu		Index		Index		Mu	Popu-	Index	ς	Index		Mu	Popu-
Inde:	Name	Inde:		Ban	Popu- lation	No.	Name	No.	Name	Ban	lation	No.	Name	No.	Name	Ban	lation
	. <u> </u>																
5.	mb = Man	7	D	10	8,460	1.	Muang	1.	Wiang	1*	16,580	6.	Dok	I.	Dok Kham Tai	13	14,500
٠,	Tha Wang		Rim	10	4,590		Phayao	2.	Mae Tum	1	7,330		Kham Tai	2.	Dok Sichum	11	7,240
•	Pha	2.	Pa Kha	7			r na ₁ ao	3.	Dong Jan	21	19,340	• •		3.	Ban Tham	7	4,270
		3.	Pha Tou	16	8,870	•	•	4.	Mae Na Rua	18	14,230		•	4.	Ban Pin	13	13,280
		4.	Yom	16	8,310			5.	Ban Tun	18	9,940			5.	Huai Lan	20	26,280
		5.	Tan Chum	10	5,570			6.	Ban Tump	18	10,820			6.	San Khong	6.	2,210
		6.	Si Phum	8	5,190			ί.	Ban Tomp	17	12,690					(70)	(67,780)
				(67)	(4L,000)			8.	Ban Poem	12	7,580						(0,), 00,
		_				•		9.	Huai Kaew	9	7,720	7.	Mae Chai	1.	Mae Chai	16	12,900
6.	Mae	1.	Pong	8	3,990				Mae Ka	8	8,830			2.	Sri Thoei	10	6,670
	Charim	2.	Nong Daeng	17	3,820		1.	10.		٠ ت	5,050			3.	Mae Suk	7	6,300
		3.	Mho Muang	14	5,490		•	11.	Ban Mai	6.	7,530			4.	Pa Fhak	13	10,530
				(29)	(13,300)			12.	Cham Pa Whai		(127,630)			4.	ra rnak	(46)	
	•						•			(136)	(127,030)					(40)	(36,400)
7.	Sa	1.	Klang Wiang	11	10,950		*** 1			10	14 440	(7)		(46)		(406)	(447 220)
		2.	Kheng	4	3,250	۷.	Chiang	1.	Yaun	12	14,440			(40)		(486)	(447,330)
		3.	Lai Nan	6	3,260		Kham	2.	Thung Kloei	10	6,110						
		4.	Tan Chum	10	7,370			3.	Sob Bong	9	5,950						•
		5.	Na Lueng	7.	3,570		•	4.	Chiang Raeng	10	5,630						
		6.	San	7	6,001			5.	Phu Sang	13	8,840						
		7.	Nam Muap	6	3,370		•	6.	Nam Van	13	14,920						
		8.	Nan Pua	7	5,730			7.	Wiang	12	10,230						
		9.	Yab Hua Na	6	2,640			8.	Fai Khwang	8	7,820						
		10.	Pong Sanuk	. 6	3,450			9.	Chedi Kham	10	8,490						
		11.	Aei Na Lai	11	7,520			10.	Rom Yen	12	7,850						
					(57,100)			11.	Chiang Ban	7 .	6,230						
				(02)	10.			12.	Mae Lao	7	4,500						
8.	Na Noi	1.	Na Noi	13	7,680	•				(123)	(101,010)						
		2.	Chiang Khong	6	I,780	·			*		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						
		3.	Si Sakate	10	6,540	3.	Pong	1.	Pong	16	11,790				•		
		4.	Sathan	. 8	5,760		_	2.	Kuan	11	8,420						
		5.	San Tha	14	8,810			3.	Oil	10	6,050						٠
		~•	odii iiid		(30,560)			4.	Him	13	8,460						
				(31)	(30,300)			5.	Pha Chang Noi	5	1,370						
9.	Ban	1.	Ban Fha	7	3,860					(55)	(36,080)						
	Luang	2.	Pha Khaluang	9	3,750												
	ndang		_	-		4.	Chiang	1.	Chiang Muan	7	5,880						
		3.	Suat	6 :	2,800		Muan	2.	Ban Mang	6	4,310		**				
				(22)	(10,400)			3.	Sa	5	4,440						
1:0		-		_		-		3.	U G	(18)	(14,630)				• •		
TO.	Na Muen	Τ.	Na Thanung	9	5,010		-			(10)	(11,000)						
		2.	Bo Kaew	8	5,210	5.	Chun	. 7	Huai Khao Kam	11	17,540						
	•	3.	Muang Lee	11	5,280	٠,	CHUII	1.		11							
				(28)	(15,510)			2.	Chun	11	17,490				•		٠
(10)		(68)	•	(611) (370,900)			3.	Lo	11	22,890						
,,-,		,00,		(Oar) C	, ,		4.0%	4.	Hong Hin	5 (20)	5,870						
										(38)	(63,800)						

CHIANG MAI

7 of 13

CHIANG RAI

Minang 1. Minang Min																		
Simple S	Ampho	ne		Tambon	No.of	and the second s		Imphoe		Tambon		£						
Mo. No.	Index		Index			Popu-	Inde	2 Y	Index		and the second s							Popu-
Milang 1. Milang 2. 39,260 7. 70 720 1. 10,070 1. 2. 2. 2. 2. 2. 2. 2.				Name							Ban	<u>lation</u>	No.	Name	No.	Name	Ban 	<u>lation</u>
Manang 1, witang 1, witang 1, 30,290 7, Fo Ton 3, 10,000 1, Manang 3, 61 fram 1, 10, 10, 10, 10, 10, 10, 10, 10, 10,				Mily and display of the state o			·									•	ů.	
Colony Fail 2. Noh Stiang 22 13,870 0. Yang Doa 10 10,350 Chiang 2. Pine Sing 1, 1, 16 14 10,320 0. She Pace 20 9 13,000 Past 5. Rot Yang May 1, 1, 16 4. Nong face 15 13,700 10. Yub Yang 8 6,770 4. Chang Moi 1, 13 26 6. Kee Yang 11 14,250 11. Bath Yang 8 6,770 7. Chang Moi 1, 13 26 6. Kee Yang 11 14,250 11. Bath Yang 8 6,770 7. Chang Moi 1, 13 26 6. Rot Yang Moi 1, 13 26 26 26 26 26 26 26 26 26 26 26 26 26						20 200	- 1		-		G. :	7 600	1	Munna	1	Ci Dhum		14,160
1.													٠ل.				• • • • • • • • • • • • • • • • • • • •	11,600
4. Norg Inc. 15 15 15 10 10 10 10 10	Chi	iang Rai		_			i i							-				16,320
S. Nee Shade Year 11 14,250 11, 848 Ya 6 9,390 5. Chang Klam 1, 22 7. Sem Sci 14 11,700 12, latow 15 10,690 6. Not Kack 1, 22 7. Sem Sci 14 11,700 12, latow 12, latow 12, latow 12, latow 13, latow 14, latow 14, latow 15, latow 16, latow latow 16, latow 16, latow 16, latow 16, latow latow 16, latow 16, latow 16, latow 16, latow latow 16, latow 16, latow 16, latow 16, latow latow 16, latow 16, latow 16, latow 16, latow latow 16, latow 16, latow 16, latow 16, latow latow 16, latow 16, latow 16, latow 16, latow latow 16, latow 16, latow 16, latow 16, latow latow 16, latow 16, latow 16, latow 16, latow latow 16, latow 16, latow 16, latow 16, latow latow 16, latow 16, latow 16, latow 16, latow latow 16, latow 16, latow 16, latow 16, latow latow 16, latow 16, latow 16, latow 16, latow latow 16, latow 16, latow 16, latow 16, latow latow 16, latow 16, latow 16, latow 16, latow latow 16, latow 16, latow 16, latow 16, latow l														ria i				13,500
6. Mie Yao 11 10,230 12, Slaw 15 10,590 6. Nat Note 1, 22 1, Slaw 16 8,290 7. Chang Plunk 5 17 6. Sang Sai 14 11,760 12. Has Tas 6 8,290 7. Chang Plunk 5 17 6. Sang Plunk 5 18 10. Per Short Dam 11 7,270 7. Pa Deat 1. Ribott 9 11,030 10. Per Short Dam 11 7,270 7. Pa Deat 1. Ribott 9 11,030 10. Per Short 11 11,000 10. Per Short Dam 11 1,270 7. Pa Deat 1. Ribott 9 11,030 10. Per Short 12 11. Sang Plunk 5 1. Sang Plunk 13 11. Sang Plunk 14 1																		20,230
7. Sem Soi 14 11,760 13. Have Team 6 8,700 7. Chang Planek 5 13. Have Team 6 8,700 7. Chang Planek 5 13. Have Team 7 129 (125)																——————————————————————————————————————		
8. Bau Sall 25 12,260 9. Dong Na Da 23 14,050 10. Pa Kho Daa 11 7,270 7, Pa Daet 1. Pa Daet 9 11,030 10. Na Daet 8 6 10. Dakt Char Phu 6 1,950 2. Ra Mark Lia 6,550 112, White Sall 11 1,030 1. Ra Daet 9 7,600 112. White Sall 12 Bail Char Phu 6 1,950 2. Ra Mark Lia 6,550 112, White Sall 12 Bail Char Phu 6 1,950 2. Ra Mark Lia 6,550 112, White Sall 12 Bail Char Phu 6 1,950 2. Ra Mark Lia 6,550 112, White Sall 12 Bail Char Phu 6 1,950 2. Ra Mark Lia 6,550 112, White Sall 12 Bail Char Phu 6 1,950 2. Ra Mark Lia 6,550 112, White Sall 12 Bail Char Phu 6 1,950 2. Ra Mark Lia 6,550 112, White Sall 12 Bail Char Phu 6 1,950 2. Ra Mark Lia 6,550 112, White Sall 12 Bail Char Phu 6 1,950 2. Ra Mark Lia 6,550 112, White Sall 12 Bail Char Phu 6 1,950 2. Ra Mark Lia 6,550 112, White Sall 12 Bail Char Phu 6 1,950 2. Ra Mark Lia 6,550 112, White Sall 12 Bail Char Phu 6 1,950 2. Ra Mark Lia 6,550 112, White Sall 12 Bail Char Phu 6 1,950 2. Ra Mark Lia 6,550 112, White Sall 12 Bail Char Phu 6 1,950 2. Ra Mark Lia 6,550 112, White Sall Li																		29,560
9. Doug Ma Da 23 14,050 10. Pa Kho Dam 11 7,270 7. Fa Deet 1. Fa Deet 2. Pa Deet 3. Fa Deet 3. Fa Deet 3. Pa D									13.	Mae Tam				-				17,440
10. Pa Kho Dam 11. 7,270 7, Pa Dack 1, Pa Dack 1							,				(129)	(125,970)				- .		8,700
11. Mac Gorn 19 10,570 2. Nage 9 7,400 11. Nougliol 5 5 6 12. Mac Scha 12. Mac Scha 20 25,550 8. Nougliol 13. Nougliol 5 5 6 6 7 7 7 7 7 7 7 7									•									4,340
12. Mai Cham Phu 6 1,950 3. San Ma Kha 6 6,350 12. The Sale 5 6 15 15 15 15 15 15 1				Pa Kho Dam	11	7,270	. 7.	Pa Daet	1.	Pa Daet	9						_	6,580
Mae Sai			11.	Mae Gorn	19	10,570			2.	Pa Ngae	9	7,400				-	5	3,240
1.			12.	Huai Chom Phu	6	1,950			3	San Ma Kha	4	6,350			12.		5	6,120
1. Mac Sai 2. Mac Sai 2. Phan 1. Manng Phan 17 24,550 15. Pa Tan 5 2.			13.	Huai Sak	20	25,950					(22)	(24,770)			13.	Nong Pa Klung	. 5	4,960
Mae Sai															14.	Fha Ham	5	4,480
2. Mae Sai							8.	Phan	1.	Muang Phan	17	24,550			15.	Pa Tan	5 :	3,900
2.	2. Mar	e Sai	1.	Mae Sai	20	27.890		-							16.	San Phisua	8	5,100
Same Chang 16	2300	COGI								and the second s	'						(67)	(170, 240)
1. Pong Pha 12 11,830 5. Muang Kham 10 9,000 7,640 2. Mac Ai 1. Mac Ai 21 11,830 5. Muang Kham 10 7,640 2. Mac Ai 1. Mac Ai 21 11,830 5. Muang Kham 10 7,640 2. Mac Ai 2. Mac Ai 3. Mac				and the second s														
Second Part										· ·						•		
3. Chiang 1. Wiang 12 13,970 8. Bus Rose 9 6.450 3. San Ton Mheu 10 11 11,540 9. Dol Ngam 12 8,440 4. Mae Na Mang 7 1 (47) (48) 1. Bus Rose 12 8,440 4. Mae Na Mang 7 1 (47) (48) 1. Bus Rose 13 11,540 10. San Ma Khet 10 12,780 (17) (18) (18) (18) (18) (18) (18) (18) (18			- T	rong rna							and the second s		2.	Mae Ai	1.	Mae Ai	21	15,320
9. Chiang 1. Wiang 1. 2 13.970 8. Hua Rom 9 6.450 3. San Ton Mhen 10 11 Face 1					(63)	(02,330)		•						1140 114				8,390
Saen 2 Pa Sak 20 20,450 9 Doi Ngam 12 8,440 4 Mae Na Wang 7 1	n m1		,		7.0	12 070	4.47.5				and the second s							11,770
Same 1		-														-		
(45) (45,960)	Sae	.en													*± • .	Mae Na Wang		5,410
Chiang 1. Wiang 9 11,540 1. Wiang 9 11,540 2. Sar Tan 14 14,220 9. Mae Suai 1. Mae Suai 19 7,520 3. Mon Pin 14 16,240 1. Mae Suai 19 7,520 3. Mon Pin 14 16 17 Mae Suai 10 10,440 10,440		•	3.	Ban Saew													(47)	(40,890)
4. Chiang 1. Wiang 9 11,540 Khong 2. Sa Tan 14 14,220 9. Mae Suai 1. Mae Suai 19 7,520 3. Mon Pin 14 16 Khong 2. Sa Tan 14 14,220 9. Mae Suai 1. Mae Suai 19 7,520 3. Mon Pin 14 16 3. Krung 7 8,660 2. Pa Dact 10 6,470 4. Mae Myon 11 11 5. Huai Saw 6 6,360 4. Sri Toe1 15 10,930 6. San Sai 10 11 6. Muang Yay 9 4,490 5. Tha Koe 10 9,000 7. Si Dong Yen 10 11 7. Po 9 4,490 6. San Sai 10 11 7. Po 9 4,490 6. San Sai 10 11 7. Po 9 4,490 9. P					(45)	(45,960)	-	*	11.	Mae Ooe			2	_	-	ent and a		
Khong 2. Sa Tan			_								(131)	(123,590)	3.	rang				16,300
No. 1				_	and the second second		Q	Mag Suai	1	Mae Suai	.19	7 520						17,240
4. Boon Rueng 7 6,550 3. Mae Prik 10 7,090 5. Mae Soon 13 11 1. 5. Huai Saw 6 6,360 4. Sri Toei 15 10,930 6. San Sai 10 1 7. Po 9 4,490 (64) (41,000) (64) (41,000) 7. Si Dong Yen 10 11 7. Po 9 4,490 (65) (10	Kh	nong			14			MAC DUCK								•		10,770
5. Huai Saw 6 6,360 4. Sri Toei 15 10,930 6. San Sai 10 1 1			3.	=	_. 7													15,530
6. Muang Yay 9 4,490 5. Tha Koe 10 9,000 (64 (41,000) 7. Si Dong Yen 10 11 10 10 10 10 10 10 10 10 10 10 10			4.	_	7													18,120
6. Walley 187 9 4,490 7. Po 9 4,490 (61) (56,700) 10. Wiang 1. San Sali 5 6,000 4. Chiang 1. Chiang Dao 12 1 5. Mae 1. Mae Chan 10 8,760 Pa Pao 2. Wiang 7 9,830 Dao 2. Mae Na 14 Chan 2. Chan Cha Wha 23 17,820 3. Ban Pong 5 4,540 3. Muang Ngai 17 1 3. Mae Kham 26 17,900 4. Pa Ngiu 9 10,150 3. Muang Ngai 17 1 4. Pa Sang 24 15,010 5. Hua Fai 10 10,220 5. Muang Khong 5 5 5. San Sai 15 9,190 6. Mae Chedi 10 12,020 6. Muang Hae 6 6 6. Tha Khao Pluak 8 5,110 7. Mae Chedi Mai 8 7,200 7. Piang Luang 5 7. Piang Luang 5 7. Mae Chedi Mai 10 12,020 6. Muang Hae 6 7. Pong Noi 16 18,340 7. Mae Chedi Mai 8 7,200 7. Piang Luang 5 7. Mae Chedi Mai 8 7,200 7. Piang Luang 5 7. Mae Chedi Mai 10 12,020 7. Piang Luang 5 7. Mae Chedi Mai 10 12,020 7. Piang Luang 5 7. Mae Chedi Mai 10 12,020 7. Piang Luang 5 7. Mae Chedi Mai 10 12,020 7. Piang Luang 5 7. Mae Chedi Mai 10 12,020 7. Piang Luang 5 7. Mae Chedi Mai 10 12,020 7. Piang Luang 5 7. Mae Chedi Mai 10 12,020 7. Piang Luang 5 7. Mae Chedi Mai 10 12,020 7. Piang Luang 5 7. Mae Chedi Mai 10 12,020 7. Piang Luang 5 7. Mae Chedi Mai 10 12,020 7. Piang Luang 5 7. Mae Chedi Mai 10 12,020 7. Piang Luang 5 7. Mae Chedi Mai 10 12,020 7. Piang Luang 5 7. Mae Chedi Mai 10 12,020 7. Piang Luang 5 7. Mae Chedi Mai 10 12,020 7. Piang Luang 5 7. Mae Chedi Mai 10 12,020 7. Piang Luang 5 7. Piang Luang 5 7. Mae Chedi Mai 10 12,020 7. Piang Luang 5 7. Piang Luang 5 7. Piang Luang 5 7. Piang Luang 5 7. Mae Chedi Mai 10 12,020 7. Piang Luang 5 7. Mae Chedi Mai 10 12,020 7. Piang Luang 5 7. Pi			5.	Huai Saw	6			in the second					•	-	, б.		10	11,880
7. Po 9 4,490 (85) (10 (56,700)			6.	Muang Yay	. 9	4,490			5.	rna koe		· ·			7.	Si Dong Yen	10	10,520
(61) (56,700) 10. Wiang 1. San Sali 5 6,000 4. Chiang 1. Chiang Dao 12 1 5. Mae 1. Mae Chan 10 8,760 Pa Pao 2. Wiang 7 9,830 Dao 2. Mae Na 14 Chan 2. Chan Cha Wha 23 17,820 3. Ban Pong 5 4,540 3. Mae Kham 26 17,900 5. Hua Fai 10 10,220 5. Muang Khong 5 5. San Sai 15 9,190 6. Mae Chedi 10 12,020 6. Muang Khong 5 6. Tha Khao Pluak 8 5,110 7. Mae Chedi Mai 8 7,200 7. Piang Luang 5 7. Pong Noi 16 18,340 8. Pa Toeng 19 9,140 (101,280) 11. Wiang 1. Thung Gho 24 24,540 Chai 2. Wiang Chai 14 18,940 6. Thoeng 1. Wiang 14 17,020 3. Pha Ngam 14 16,290 2. Ngiu 12 8,100 5. Pa Sang 4. Mae Loy 11 10,990			7.	Po	9	4,490			1000		(64)	(41,000)					(85)	(100,350)
5. Mae 1. Mae Chan 10 8,760 Pa Pao 2. Wiang 7 9,830 Dao 2. Mae Na 14 Chan 2. Chan Cha Wha 23 17,820 3. Ban Pong 5 4,540 3. Mae Kham 26 17,900 4. Pa Sang 24 15,010 5. Hua Fai 10 10,220 5. Muang Khong 5 5. San Sai 15 9,190 6. Mae Chedi 10 12,020 6. Muang Hae 6 6. Thoeng 1. Wiang 14 17,020 11. Wiang 2. Wiang Chai 14 18,940 6. Thoeng 1. Wiang 14 17,020 3. Pha Ngam 14 16,290 7. Ngiu 12 8,100 4. Wiang Na 7 6,850 3. Plong 13 7,610 5. Pa Sang 1 4 10,990 4. Chiang 1. Chiang Dao 12 1 8 pa Pao 2. Wiang 7 9,830 Dao 2. Mae Na 14 9 10,150 4. Mae Na 14 10 10,220 5. Muang Na 6 6. Muang Na 6 6. Muang Hae 6 7. Pong Noi 16 18,340 8. Pa Toeng 19 9,140 Chai 2. Wiang Chai 14 18,940 6. Thoeng 1. Wiang 14 17,020 3. Pha Ngam 14 16,290 9 10,150 4. Muang Na 6 10 10,220 5. Muang Hae 6 11 Wiang 12 8,100 4. Wiang Na 7 6,850 12 12 1 14 18,940 15 Pa Sang 7 6,850 16 (66,620)					(61)	(56,700)												, ,
5. Mae 1. Mae Chan 10 8,760 Pa Pao 2. Wiang 7 9,830 Dao 2. Mae Na 14 Chan 2. Chan Cha Wha 23 17,820 3. Ban Pong 5 4,540 3. Muang Ngai 17 1 3. Mae Kham 26 17,900 4. Pa Ngiu 9 10,150 4. Muang Na 6 4. Pa Sang 24 15,010 5. Hua Fai 10 10,220 5. Muang Khong 5 5. San Sai 15 9,190 6. Mae Chedi 10 12,020 6. Muang Hae 6 6 6. Tha Khao Pluak 8 5,110 7. Mae Chedi Mai 8 7,200 7. Piang Luang 5 7. Pong Noi 16 18,340 (54) (59,960) (65) (4 17,020 (65) (4					-	a ta	TÖ.				5 -		4.	Chiang	1.	Chiang Dao	12	13,840
Chan	5. Ma	lae	1.	Mae Chan	10	8,760	100	Pa Pao		-	~ -7			_		Mae Na		9,670
3. Mae Kham 26 17,900 4. Pa Ngiu 9 10,150 4. Muang Na 6 4. Pa Sang 24 15,010 5. Hua Fai 10 10,220 5. Muang Khong 5 5. San Sai 15 9,190 6. Mae Chedi 10 12,020 6. Muang Hae 6 6. Tha Khao Pluak 8 5,110 7. Mae Chedi Mai 8 7,200 7. Piang Luang 5 7. Pong Noi 16 18,340 (54) (59,960) 7. Piang Luang 5 8. Pa Toeng 19 9,140 (141) (101,280) 11. Wiang 1. Thung Gho 24 24,540 (141) (101,280) 12. Wiang Chai 14 18,940 6. Thoeng 1. Wiang 14 17,020 3. Pha Ngam 14 16,290 3. Plong 13 7,610 5. Pa Sang 659 (66,620)						*					·					the state of the s		11,290
4. Pa Sang 24 15,010 5. Hua Fai 10 10,220 5. Muang Khong 5 5. San Sai 15 9,190 6. Mae Chedi 10 12,020 6. Muang Hae 6 6. Tha Khao Pluak 8 5,110 7. Mae Chedi Mai 8 7,200 7. Piang Luang 5 7. Pong Noi 16 18,340 (59,960) (65) (4 8. Pa Toeng 19 9,140 (101,280) 11. Wiang Chai 2. Wiang Chai 14 18,940 6. Thoeng 1. Wiang 14 17,020 3. Pha Ngam 14 16,290 2. Ngiu 12 8,100 4 Wiang Nua 7 6,850 3. Plong 13 7,610 5. Muang Khong 5 6. Mae Chedi 10 12,020 6. Muang Khong 5 6. Mae Chedi Mai 8 7,200 7. Piang Luang 5 6. Mae Chedi Mai 8 7,200 7. Piang Luang 6 6. Muang Hae 6 6. Muang Hae 6 6. Muang Hae 6 6. Muang Hae 6 6. Mae Chedi Mai 14 18,940 7. Mae Chedi Mai 14 18,940 8. Pa Toeng 19 9,140 (101,280) 11. Wiang Chai 14 18,940 8. Pa Toeng 19 9,140 (101,280) 12. Wiang Chai 14 16,290 9. Ngiu 12 8,100 5. Pa Sang 7 6,850 9. Gef, 620)									4.	Pa Ngiu		10,150		-				3,170
5. San Sai 15 9,190 6. Mae Chedi 10 12,020 6. Muang Hae 6 6. Tha Khao Pluak 8 5,110 7. Mae Chedi Mai 8 7,200 7. Piang Luang 5 7. Pong Noi 16 18,340 (54) (59,960) 7. Piang Luang 5 8. Pa Toeng 19 9,140 (141) (101,280) 11. Wiang 1. Thung Gho 24 24,540 (141) (101,280) 12. Wiang Chai 14 18,940 6. Thoeng 1. Wiang 14 17,020 3. Pha Ngam 14 16,290 2. Ngiu 12 8,100 4 Wiang Nua 7 6,850 3. Plong 13 7,610 5. Pa Sang (59) (66,620)									5.	Hua Fai		10,220						3,190
6. Tha Khao Pluak 8 5,110 7. Mae Chedi Mai 8 7,200 7. Piang Luang 5 (54) (59,960) (65) (4 8. Pa Toeng 19 9,140 (101,280) 11. Wiang 1. Thung Gho 24 24,540 Chai 2. Wiang Chai 14 18,940 6. Thoeng 1. Wiang 14 17,020 3. Pha Ngam 14 16,290 2. Ngiu 12 8,100 4 Wiang Nua 7 6,850 3. Plong 13 7,610 5. Pa Sang - (59) (66,620)									6.	Mae Chedi	. 10	12,020	,				_	
7. Pong Noi 16 18,340 8. Pa Toeng 19 9,140 (141) (101,280) 11. Wiang 1. Thung Gho 24 24,540 Chai 2. Wiang Chai 14 18,940 6. Thoeng 1. Wiang 14 17,020 2. Ngiu 12 8,100 3. Plong 13 7,610 3. Plong 13 7,610 4. Mae Loy 11 10,990 (54) (59,960) (54) (59,960) (54) (59,960) (54) (59,960) (54) (59,960) (54) (59,960) (54) (59,960) (55) (66,620)	•								7.	Mae Chedi Mai	8	7,200				· -		5,400
8. Pa Toeng 19 9,140 (141) (101,280) 11. Wiang 1. Thung Gho 24 24,540 (141) (101,280) Chai 2. Wiang Chai 14 18,940 6. Thoeng 1. Wiang 14 17,020 3. Pha Ngam 14 16,290 2. Ngiu 12 8,100 4. Wiang Nua 7 6,850 3. Plong 13 7,610 5. Pa Sang (59) (66,620)						and the second s		1 1	* * .		(54)			a.	•	r zang zaang		3,320
(141) (101,280) 11. Wiang 1. Thung Gho 24 24,540 Chai 2. Wiang Chai 14 18,940 6. Thoeng 1. Wiang 14 17,020 3. Pha Ngam 14 16,290 2. Ngiu 12 8,100 4. Wiang Nua 7 6,850 3. Plong 13 7,610 5. Pa Sang (59) (66,620)									11.				-				(65)	(49,880)
Chai 2. Wiang Chai 14 18,940 6. Thoeng 1. Wiang 14 17,020 3. Pha Ngam 14 16,290 2. Ngiu 12 8,100 4 _{**} Wiang Nua 7 6,850 3. Plong 13 7,610 5. Pa Sang (59) (66,620)			٥.	ra roeng			11.	Wiang	1	Thung Gho	24	24,540			÷			
6. Thoeng 1. Wiang 14 17,020 3. Pha Ngam 14 16,290 2. Ngiu 12 8,100 4. Wiang Nua 7 6,850 3. Plong 13 7,610 5. Pa Sang (59) (66,620)					(141)	(TOT, 280)		-			and the second s					e de la companya de	٠	
2. Ngiu 12 8,100 4** Wiang Nua 7 6,850 3. Plong 13 7,610 5. Pa Sang (59) (66,620)		.1	~	P. 7	4.4	10.000	9.						•	•				
3. Plong 13 7,610 5. Pa Sang (59) (66,620)	6. T	noeng									7							
4. Mae Loy 11 10,990 (59) (66,620)									` ** *	Da Gana	· •	0,650				•		
4. Mae Loy II 10,550	-			=		1 11 1			٠.	ra Jang	7501	166 6201						
5 Chiang Khian 7 3 590 ** The Tambon is severated from Tambon 1	*							وسد الرواق								·		
			5.	Chiang Khian	7	3,590		** The	Tambon	is seperated fr	com Tambon	1 .						
6. Ta 10 11,680 (11) (79) (960) 7			6.	Та	10	11,680				english of a grade consistence is								

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(79)

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CHIANG MAI (Continued)

	Amp	hoe		Tambon	No.o	<u> </u>	Amphoe	, _{1, 1} , 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	Tambon	No.of	nggana na namanan mengelakah di kacamatan na mengelak na	Amp	hoe		Tambon	No.of	***************************************
Ind	lov		Index	· · · · · · · · · · · · · · · · · · ·	Mu	r Popu–	Index	Index		Mu	Popu-	Index		Index		Mu	Popu-
No		Name	No.	Name	Ban		No. Name	No.	Name	Ban	lation	No.	Name	No.	Name	Ban	lation
					1-644		wo. wante		And the state of t	47,414			deservation of the state of		ABILIAN 1899	476442	
5.	M	iae Taeng	1.	San Mahapon	8	6,270	9. San Sai	1.	San Sai Luang	6	6,150	12.	Saraphi	1.	Yang Noeng	7	7,880
			2.	Mae Taeng	7	3,250	J. Duli Our	2.	San Sai Noi	5	4,620		*	2.	Saraphi	8	6,530
			3.	Khee Laek	9	7,320		3.	San Phra Naet	4	3,370			3.	Chomphu	8	5,410
			4.	Cho Lae	5	5,650	-	4.	San Na Meng	7	3,580			4.	Chai Sathan	7 .	3,760
			5.	Mae Ho Phra	8	3,960		5.	San Pa Pas	4	2,400			5.	Khuo Mung	10	4,710
			6.	Sop Pueng	11	4,940		6.	Nong Yaeng	8	3,440			6.	Nong Fak	7	4,510
			7.	Ban Pao	7	3,110		7.	Nong Jhom	8	6,860			7.	Nong Pheng	8	8,360
			8.	San Pa Yang	5	3,410		8.	Nong Han	7	9,700			8.	Tha Kwang	. 7	2,430
	٠		9.	Pa Pae	11.	4,310		9.	Mae Fak	9	9,420			9.	Don Kaew	. 7	2,980
	+.		10.	Muang Kai	4	1,330	5	10.	Mae Fak Mae	5	6,550			10.	Tha Wang Tan	12	6,710
			11.	Ban Chang	4	1,470		11.	Muang Len	4	2,370			11.	San Sai	11	5,260
			12.	Chut Chang	5	1,900		12.	Pa Phai	7	8,500			12.	Pa Bong	6	2,990
			13.	Intakhin	16	10,160			I O FIIOL	(74)	(66,950)					(98)	(61,510)
			*		(100)	(57,090)				(/	(00)	-				,,,,	
					(200)	(3,) = 3 = ,	10. Doi Sak	et 1	Chueng Doi	10	9,080	13.	Hang Don	g 1.	Hang Dong	15	9,040
6.	P	hrao	1.	Wiang	6	3,670	ro. Dor ban	2.	San Poo Loei	11	6,280		3	2.	Nong Ghaew	8	4,570
•		***************************************	2.	Thung Luang	6	2,060		3.	Luang Nua	7	6,400			3.	Han Kaew	7	4,890
			3.	Pa Thum	10	5,270		4,	Pa Pong	5	2,910			4.	Nong Tong	10	9,790
			4.	Pa Nhai	9	4,370		5.	Sanga Ban	-5	2,150			5.	Khun Khong	8	4,220
			5.	San Sai	1.2	5,510		6.	Pa Lan	5	1,850			6.	Sop Mae Kham	5	2,290
			6.	Ban Pong	ρ.	4,120	• ,	7.	Talot Kwan	5	1,680			. 7.	Ban Whaen	10	6,590
			7.	Nam Phrae	. 7	3,430		8.	Samran Rat	6	3,010			8.	San Phak Whan	5	4,090
			8.	Khuen Phak	. 6	3,260		9.	Mae Khue	6	3,830			9.	Nong Kwai	. g	5,120
			9.	Mae Van	9	3,740		10.	Talat Yai	5	3,930			10.	Ban Pong	. 7	3,510
			10.	Mae Pung	8	4,670		11.	Mae Hoi Ngoen	٦.	3,680		•	10.		(83)	(54,110)
			11.	Loang Khot	8	4,420			-	6	5,080	•				(03)	(34,110
		•		board wor	(89)	(44,530)		12.	Mae Pong		3,910	14.	San Pa	1.	Yu Wha	12	12,030
					(05)	(44,000)		13.	Pa Miang	10	(53,780)	1.4.	Tong	2.	San Klang	12	9,050
					·				•	(85)	(55,780)		10119	3.	Tha Wang Phrao	6	3,450
			_		_	•								4.	Makham Luang	1.4	12,620
7.	S	Samoeng	1.	Samoeng Tai	8	4,310	11. San	1.	San Kamphaeng	14	9,170			5.	Mae Gha	11	7,750
			2.	Samoeng Nua	6	3,080	Kamphae		Sai Moon	. 7	4,420			6.	Ban Mae	14	7,730
			3.	Mae Sap	7	3,310		3.	Rong Wua Paeng	10.	5,010			7.	Ban Klang	10	9,550
			4.	Bo Kaew	6	4,020		4.	Buak Khang	11	7,180			8.	Thung Satok	12	6,400
			5.	Yaeng Moen	6	2,700		5.	Chae Chang	. 9	6,210			9.	Thung Phe	13	
				•	(33)	(17,420)		6.	On Tai	10	4,470			10.	_		8,650
			_					7.	On Nua	14	9,530			11.	Thung Toem Ban Rat	9	7,520
8.	M	lae Rim	1.	Rim Tai	5	9,380		8.	Ban Sahakorn	7	2,180			12.	Mae Win	10	10,930
			2	Rim Nua	4	2,780	•	9.	Huai Kaew	7	3,480			. 12.	mae win	12	6,030
			3.	San Pong	6	8,920	e e	10.	Mae Poo Kha	7.	5,070					(135)	(101,370
i			4.	Khee Laek	7	6,840		11.	Huai Sai	7	6,150	. 16	Ch or-	1	Vance Par	7.0	7 (00
			5.	Saluang	7	4,110		12.	Ton Pao	9	7,080	15.		1.	Yang Kram	12	7,630
			6.	Huai Sai	4	2,660		13,	San Klang	6	3,830		Thong	2.	Song Khwae	15	16,670
			7.	Mae Ram	7	4,010	•	14.	Mae Tha	6	4,020			3.	Ban Luang	13	14,540
			8.	Pong Yaeng	6	4,180		15.	Tha Nua	5	1,760			4.	Khuang Pas	8	9,640
			9.	Mae Sa	4	4,490				(129)	(79,560)			5.	Sop Tia	10	11,810
	•		10.	Don Kaew	5	5,750				,	•	•		6.	Ban Pae	17	13,750
			11.	Mhuang Kaew	6	4,370		•			•			7.	Doi Kaew	6	n.a.
				•	(61)	(57,490)										(81)	(74,040

CHIANG MAI (Continued)

MAE HONG SON

T.A	MP	HITM	

Δm	phoe		Tambon						m = _ 1= = = =			25	unphoe		Tambon		The state of the
			1 cmmO1)	No.of		r	mbhoe		Tambon	No.of		5.5			Tampon	No.of	
idex		Index		Mu	Popu-	Inde		Index		Mu	Popu-	Inde		Index	· · · · · · · · · · · · · · · · · · ·	Mu	Popu-
0.	Name	No.	Name	Ban	<u>lation</u>	No.	Name	No.	Name	Ban	<u>lation</u>	No.	Name	No.	Name	Ban	latio
6.	Maa	3	Oleman Yelen	10	0.040	•				*		,	M		And the second of the second o	*	10.0
٥.	Mae	1.	Chang Kheng	12	8,640	1.	. •	1.	Chong Kham	1	5,160	1.	•	1.	Nai Muang	1	12,84
	Chaem	2.	Tha Pha	12	6,860		Mae Hong	2.	Muai Pong	7	4,550		Lamphun	2.	Mhuang Nga	10	11.86
		3.	Ban Thap	16	4,150		Son	3.	Pha Bong	9	7,330			3.	Umong	11	15,4
		4. 5.	Mae Soek Mae Na Jorn	8	5,350 9,970			4.	Pang Mhu	8	5,000		-	4.	Nong Chang Khen	6	4,1
		6.	Ban Chan	5 7				5.	Mhok Cham Pae	4	2,050			5.	Pra Tou Pa	9	6.0
٠		٠.	Dali Cliali	(60)	n.a. (34,970)			6.	Huai Pha	6	2,130			6.	Rim Ping	9	7,2
				(00)	(34,310)			7.	Pang Ma Pha	7:	2,550			7. 8.	Ton Thong Ban Pan	. /	7,1
	Hot	1.	Hang Dong	8	7,670			e in the pro-	er til er	(42)	(28,770)			9.	Mhuang Jee	12 8	10,2
•	1100	2.	Hot	5	3,120	. 2	Pai	7	7.7.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2		0.700			10.	Pa Sak	15	8, <u>9</u> 10,0
		3.	Ban Tan	6	4,490	6.	TUL	2.	Wiang Tai	6	2,120	•		11.	Wiang Yong	4.J	5,0
		4.	Bo Luang	10	7,390	4		3.	Wiang Nua	9	2,070		-	12.	Ban Klang	14	13,4
		5.	Bo Sali	7	4,070			4.	Mae Na Teng Mae Hi	5	2,930			13.	Ma Khua Chae	11	12,3
	•			(36)	(26,740)		•	5.	Thung Ýao		2,410			14.	Ban Thi	9	8,2
				.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1		6.	Muang Pang	10 7	2,860		1 - N	15.	Huai Yab	6	7,8
	Omkoi.	1.	Om Koi	1.3	7,390			7.	Pong Sao	6	1,860 740					(135)	(140,
		2.	Yang Piang	15	5,860		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		rong pao	(52)	(14,990)		٠			(233)	(140)
		3.	Mae Toen	17	7,140					(32)	(24,350)	2.	Mae Tha	1.	Tha Pla Duk	g	6,
				(45)	(20,390)	3.	Khun	1.	Khun Yuam	 A	3,770			2.	Tha Sop Sao	9	6,
							Yuam	2.	Mae Ngao	6	2,000			3.	Tha Kat	13	10,0
	Doi Tao	1.	Doi Tao	14	7,250			3.	Muang Pon	12	4,350			4.	Tha Khum Ngoen	12	7 ,
		2.	Tha Dua	11	5,390			4.	Mae Yuam Noi	12	3,190					(43)	(33,
		3.	Mued Ga	5	2,300				1 0 1	(34)	(13,320)					(= · = ·)	,
		4.	Ban Aen	3	3,020			, .		(34)	(13,550)	3.	Pa Sang	1.	Pak Bong	4	4,
	•	5.	Na Kho Rua	6	3,000	4.	Mae La	I.	Mae La Noi	14	6,460		-	2.	Pa Sang	5	7,1
		•	•	(39)	(20,950)		Noi	2.	Mae La Luong	15	5,090			3.	Mae Raeng	7	7,
)		(174)		(1,412)(1	(,132,260)		1.7	3.	Tha Pha Pom	9	3,790			4.	Muang Noi	5	4
						•		4	Mae Tho	13	2,740			5.	Ban Roen	6	4,
				•						(51)	(18,080)	,		6.	Ma Kok	7	6,
										(51)	(10,000)			7.	Tha Thum	5	7,
						5.	Mae	1.	Nam Gat	8	9,060			8.	Nam Dip	8	8.
					* 1		Sariang	2.	Mae Sariang	10	11,310			9.	Wang Phang	10	12,
							-	3.	Mae Kong	14	4,150			10.	Nong Long	5	5,
								4.	Mae Huo	10	4,600	•		11.	Nakhon Chedi	·6	5,
							e i	5.	Sop Moei	11	4,320		\$			(68)	(72,
						•		6.	Mae Khatuam	8	6,280						
			*					7.	Gong Goei	11	3,750	4.	Ban Hong	1.	Ban Hong	13	14,
					4			8	Moe Yuam	8	6,260			2.	Pa Plou	8	5,
	•					100				(80)	(49,720)			3.	Lao Yao	7	7,
			•	* .						, – - ,	(15),120)			4.	Si Tia	5.	7,9
	•		* * * * * * * * * * * * * * * * * * * *			(5)		(30)		(259) (124,880)			5.	Nong Pla Sawai	5	3,3
					-	·									••	(38)	(39,4
												5.	Li	1.	Li	19	16,8
														2	Mae Tuen	14	14,
					er e									3.	Na Sai	8	7.,
					e de la companya de La companya de la co									4.	Dong Kham	5	2,
	4							3 1				* * *	and the second	5.	Kho	4	3,3
			The second secon													(50)	(44,

LAMPHUN (Continued)

Index

No.

Amphoe

Name

Thung

Chang

Hua

Index

No.

6.

(6)

TAK

· .	Tambon	<u> </u>	<u> </u>	An	nphoe		Tambon	AT	<u> </u>	Am	phoe		Tambon	gyalanggap fit hagi mélikan anapi kadéan	No of	and the state of t
Index		No.o: Mu				To Jan-		No.of Mu	Popu-	Index		Index				Popu-
No.	Name	Ban	Popu- <u>lation</u>	Index No.	Name	Index No.	Name	Ban	<u>lation</u>	No.	Name	No.	Name		Mu Ban	
											The second					
1.	Thung Hua Chang	6	4,520	1.	Muang	1.	Ra Hae	*	6,720	7	Umphang	1.	Umphang		7	3,870
2.	Ban Poung	8	2,700		Tak	2.	Nong Luang	1 *	7,290		omphang	2.	Nong Luang	Maria de la compansión de	4	720
3.	Takian Pom	10	5,240		Idk.	3.	Chiang Ngoen	1 *	2,310			3.	Mogro	+ - 2"	7	1,740
•	Iditali Iom	(24)	(12,460)			4.	Hua Daet	1 1	3,310			4.	Mae Chan		10	2,190
		(24)	(12,400)			5.	Nong Bua Nua	6	3,800			5.	Mae Lamung		9	1,580
(43)		(358)	(342,470)			6.	Mai Ngam	8	5,490				23.00		(37)	(10,090)
			(012/1/0/	•	•	7.	Pong Daeng	6	4,410						(,	,,
		* .*				8.	Nam Ruem	17	12,650	8.	Phop Phra	ı 1.	Phop Phra		10	4,670
						9.	Wang Hin	9	6,160			2.	Chong Khab		5	2,100
						10.	Chiang Thong	12	9,070	•		3.	Khiri Rat		4	1,850
						11.	Mae Tho	10	6,650			.:	·		(19)	(8,620)
	•					12.	Pa Mamuang	5	3,550				1			
					4	13.	Nong Bua Tai	4	4,190	(8)		(49)			(387)	(264,080)
d.		:	٠.				rentan France Anglasi	(81)	(75,600)						****	
		•		2.	Tha Song	1.	Tha Song Yang	17	4,540							
			.* **		Yang	2.	Mae Tan	16	6,170					•	÷.	4
	•				rang	3.	Mae Song	13	1,390							•
				•		4.	Mae Lha	8	3,010				10 mm 1 m	100		and the second
	er er er jaret er en er er er er. Gregorie						2	(54)	(15,110)					2 1		
	en e			~									The second second			
				3.	Mae Ramat		Mae Ramat	8	7,250	•					•	
-				•		2.	Mae Charao	12	12,760							
						3.	Khanae Choe	11	3,780							
		La Maria Maria				4.	Mae Tuen	11	2,900							*
						5.	Sam Muen	4	1,600							
			•					(46)	(28,290)							
		1.5		4.	Sam Ngao	1.	Sam Ngao	5	8,370		*					
				•	Dan Ingao	2.	Wang Mhun	11	6,470			•	• •			*
						3.	Yokrabat	7	5,790							
	And Allert and Allert					4	Yan Ri	5	2,550			· .		* '		
	•					5.	Ban Na	5	1,370							•
								(33)	(24,540)							
				5.	Ban Tak	1.	Tak Oak	11	8,390							
			e la	٠,	Dan Lak	2.	Samo Khon	7	2,900		-					
						3.	Mae Salit	11	6,550	100						
						4.	Tak Tok	10	5,680	1.5						•
						5.	Khao Taphao	8	5,880				1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	100		
						6.	Thung Krachao	8	5,100				÷	•		
						7.	Thong Fa	7	3,230				•			
					er en	•		(61)	(37,740)				•			
								*								
				6.	Mae Sot	1.	Mae Sot	. 1	17,720							
						2.	Mae Khu	14	11,170	÷					•	
		•				3.	Pha Woh	12	7,200			•				
			e e		* * .	4.	Mae Taow	9	9,780		1.0					
		V.				5.	Mae Kasa	8	6,400							
		*				6.	Tha Sailuat	6	6,440							
				4	•	7.	Mae Pa	6	5,380			•				

(56)

(64,090)

SUKHOTHAI

KAMPHAENG PHET

	Ar	nphoe		Tambon			Am	phoe		Tambon			Am	phoe	······································	Tambon		<u> </u>
	Inde		Index	****	No of Mu	Popu-	Index	-	Index	-	No.of Mu	Popu-	Index		Index		No.of	Popu-
	No.		No.	Name	Ban		No.	Name	No.	Name	Ban	lation	No.	Name	No.	Name	Mu- Ban	lation
	***				<u> </u>	announced to the state of the first	110.	# 1 April 12 / 10		******************		and the second s	-		-1	and annual statement		
	•				*					·								
	1.	Muang	l.	Thani	1	20,690	5.	Si	1.	Klong Tan	8	7,160	1.	Muang	1.	Nai Muang	1,"	18,360
		Sukhothai	2.	Ban Suan	10	17,440		Samrong	2.	Wang Lock	6	5,820		Kamphaen	g 2.	Trai Troung	13	18,010
			3.	Muang Kao	ŢŢ	20,650			3.	Sam Roen	10	6,840		Phet	3.	Ang Thong	12	22,760
		•	4.	Pak Kwae	7	6,540			4.	Ban Na	6	2,250			4.	Na Bo Kham	11.	15,710
			5.	Yang Sai	8	7,640			-5.	Wang Thong	8	3,530			5.	Nakhon Chum	8	18,080
		•	·6.	Ban Kluai	7	13,910			6.	Na Khun Krai	10	6,940			6.	Song Tham	4	8,960
			7.	Ban Lum	5	6,560			7.	Kho Ta Liang	1.0	6,130			7.	Lan Dok Mai	4	4,010
			8.	Tan Tia	4	4,460			8.	Wat Kho	6	4,250			8.	Lan Dok Mai Tok	. 4	5,630
			9.	Pak Phra	4	3,550			9.	Ban Rai	. 8	5,990			9.	Kosamphi	9	11,030
				A STATE OF THE STA	(57) ((101,430)			10.	Tub Pheng	8	7,150			10.	Nong Pling	9	14,150
									11.	Ban San	8	4,320			11.	Khon Thi	17	23,990
	. 2	Si Sat-	1.	Hat Soeo	:' ⊿	6,980			12.	Wang Yai	8	3,390			12**	Nikom Sang	7	13,780
	2.1 \$	chanalai	2.	Pa Ngiu	7	7,550					(96)	(63,760)			13.	Thep Nakhon	-	
		Chanaras	3.	Mae Sam	7	5,850					10	e 240					(99)	(174,450)
			4.	Mae Sin	6	7,440	6.	Kong	1.	Kong	10	5,240						
:			5.	Ban Toek	6	8,900	•	Krailat	2.	Ban Krang	4	3,900		** The	Tambon	is separated from	Tambon 1	0, 11 & 12
	7		6.	Nong Ooe	7	5,610			3.	Krai Nok	7	4,260						
			7.	Tha Chai	6	8,460			4.	Krai Klong	6	4,110	_			· ·		4.4
	•		8.	Si Satchanalai	6	6,390	•		5.	Krai Nai	. 6	6,200	2.	Phran	1.	Phran Kratai	1.5	18,760
		•	9.	Dong Khou	5	4,980		-	6.	Dong Doei	. 8	6,110		Kratai	2.	Nong Hua Wua	13	7,880
		1,	10.	Ban Kaeng	6	14,370			7.	Pa Fak	7	6,390			3.	Tha Mai	10	6,480
			11.	Sarajit	6				8.	Kok Raet	11	9,110			4.	Wang Kuang	9	4,950
			TT.	Jurajic	(66)	n.a. (76,530)			9.	Tha Chanuen	6	7,980			5.	Wang Tabaek	7	4,950
		•			(00)	(10,550)	•		10**	Nong Toom	4.	3,930			6.	Khao Khirit	10	3,990
	3.	Thung	1.	Ban Mai Chaimongkon	11	10,090			11.	Mai Sukkhasem					7.	Khui Ban Ong	1.3	8,280
	٠.	Saliam	2.	Thai Chanasoek	7	7,290					(69)	(57,230)					(77)	(55,300)
		Darren	3.	Thung Saliam	10	10,220		r m	a manka		San mankan							
			4.	Klong Dong	11	9,850		- W	conner or	n is separated f	rrom Tambon	8	3.	Khlong	1.	Klong Khlung	11	15,860
			•	Kiong Dong	(39)	(37,440)	- -			m	10	11,400		Khlung	2.	Tha Makhua	6	9,760
					(3.2)	(37,440)	1.	Khiri Ma		Tanot	13 13	8,590			3.	Thung Sai	8	14,600
	4	Sawankha-	'n	Muang Sawankhalok	* *	10,390		•	.2.	Thung Luang	11	7,950			4.	Tha Phutsa	10	12,850
	- •	lok		Nai Muang	9	10,720			3.	Ban Pom	16	9,890			5.	Mae Lat	6	4,810
		2011	3.	Klong Krachong	5	5,160	* -		4.	Sam Poung	70	3,890			6.	Wang Yang	5	7,640
			4.	Wang Pin Pat	. 4	2,540	•		5 **	Si Khirimat	9	3,090		,	7.	Wang Khaem	13	17,200
			5.	Wang Mai Khon	5	3,630			6.	Nong Chik	(62)	(41,720)			· 8.	Hua Thanon	8	5,573
			6.	Yan Yao	11	8,500									9**	Wang Sai	18	16,860
			7.	Na Thung	5	5,020		** Th	e Tambo	n is separated f	rom Tambon	4			10.	Pho Thong		~
			8.	Klong Yang	10	9,500	8.	Ban Dan	1.	Lan Hoi	6	4,330					(85)	(105,140)
			9.	Muang Bang Yom	4	3,410		Lan Hoi	2.	Ban Dan	5	5,190			_			
			10.	Tha Thong	7.	3,720		2402	3.	Wang Takraw	8	4,660	4,	** The	Tambon	is separated from	Tambon 9	j
			11.	Pak Nam	7	6,660			4.	Wang Nam Khao	5	4,510	4.	Khanu	1.	Wang Chaoen	15	9 900
			12.	Pa Khum Kho	10	8,610	•		5	Taling Chan	7	6,010	, •	Woralak-		Lahan		9,900
			13.	Muang Bang Khlung	5	4,730			•	Turing Chan	(32)	(24,690)		saburi	3.	Yang Sung	11	8,970
			14.	Nong Klab	. 5	5,030				$= (2\pi \epsilon_{1,2})^{-1/2} + (2\pi \epsilon_{1,2})^{-1/2} +$	(36)	(4-4,000)		and the second	4.	Pa Phutsa	6	6,743
			<i>-</i>	wang kanan	(88)		9	Si Nakho	n 1.	Si Nakhon	7	18,120			4. 5.	Saen To	9	8,630
			***		(00)	(87,610)			2.	Nakhon Dert	/ A				5. 6.	Salokbat	14	9,640
									3.	Nam Khum	4.	10,060			7.	Bo Tham	6	10,850
									4.	Klong Maplap	8	n.a.		•		Don Taeng	15	17,960
					•			•		record maprap	(23)	n.a. (20.190)			8.	Wang Chaplou	12	13,830
				1.00					7		(23)	(28,180)			9.		10	9,420
							(9)		(76)		(533)	(518,590)			10.	Khong Phai	11	8,540
								للتحصية وتنصيبهم والمراجعة فالأنط المرفعياتهم	(10)		(532)	(310,330)					(109)	(104,470)

KAMPHAENG PHET (Continued)

THAI THANI

Am	phoe		Tambon	No.of		*	nphoe		Tambon	No.of		A	mphoe		Tambon	No.of	
Index	-	Index	-	Mu	Popu-	Index	(Index		Mu	Popu-	Inde		Index	and the second s	Mu	Popu-
No.	Name	No.	Name	Ban	lation	No.	Name	No.	Name	Ban	lation	No.	Name	No.	Name	Ban	lation
			Ayening the tentage of Carry of PP			* * * * * * * * * * * * * * * * * * * *											
•						•	7	•		_						.*	
5.	Sai Ngam	1.	Sai Ngam	18	17,220	1.	Muang	1.	Uthai Mai	1	16,620	5.	Nong	1.	Nong Chang	7	4,530
		2,	Nong Kla	21	19,930		Uthai	2.	Nam Soem	6	3,670		Chang	2.	Nong Yang	10	5,120
				(39)	(37,150)		Thani	3.	Sakae Krung	8	3,480		_	3.	Nong Nang Muan	9	3,170
								4.	Don Kwang	7	3,660			4.	Nong Srong	5	2,450
6.	Klong Lar	1 .l.	Khlong Lan	11	15,770			5.	Hat Thanong	. 6	2,030			5.	Ban Kao	. 9	1,520
		2**	Pong Nam Ron	7	7,860			6.	Kho Thepho	6	2,310			6.	Uthai Kao	10	2,600
		3.	Khlong Lan Patta		atea			7.	Tha Sung	8	4,290			7.	Thung Pho	17	11,840
•		***		(18)	(23,630)	*.		8.	Nong Ghae	6	1,750			8.	Thung Pong	11	2,270
+ .				•				9.	Noen Laek	6	1,260	•		9.	Khao Bang Krak	5	6,770
	** The Ta	embon	is separated from	Tambon 1				10.	Nong Tao	6	1,630					(83)	(43,260
					-			11.	Nong Phai Ban	5	2,280		•		• .		• • •
7.	Lan Krab	1 1.	Lankrabue	15	11,430		•	12.	Nong Pung Kha	6	1,450	6.	Ban Rai	1.	Ban Rai	. 5	6,740
		2.	Chong Lom	10	9,360			13.	Thung Yai	: 5	910			2.	Thap Luang	11	15,040
		3.	Nong Luang	,8	4,840			14.	Noen Chaeng	8	2,480			. 3.	Huai Haeng	7	5,860
				(33)	(25,620)					(84)	(47,830)			4.	Khok Kwai	6	4,610
			*								16 J. Martin 1997			5.	Wang Hin	8	11,400
(7)		(48)		(460)	(525,760)	* *								6.	Huai Kot	1.1	12,380
						2.	Sawang	1.	Sawang Arom	8	3,710			7.	Kaen Makroot	4	500
			•		• • •		Arom	2.	Nong Luang	10	4,420					(52)	(59,530
								3.	Pluang Song Nang	10	5,870						•
						*		4.	Phai Khaeo	10	6,050	•					
										(38)	(20,050)	. 7.	Lan Sak	1.	Lan Sak	8	8,550
						, and a				* * * * * * * * * * * * * * * * * * *				2.	Pradouyuen	12	7,050
						3.	Thap Tha		Thap Than	8	3,180			3.	Pa Ooe	. 7	11,130
								2.	Thung Na Thai	7	1,560		•		-	(27)	(26,720
		•				•	* *	3.	Khas Khe Fhoi	6	1,330				•		,
								4.	Nong Yha Plong	6	1,590	(7)		(56)		(417)	(245,230
				* .				5.	Khok Mho	4	1,600					· · · · · · · · · · · · · · · · · · ·	
				- 1				6.	Nong Yay Da	8	3,190				•		
			•					7.	Nong Klang Dong	10	3,100						•
				-				8.	Nong Krathum	13	5,820						
			•				.*	9.	Nong Sa	7	2,050						
	•		4.4	•				10.	Taluk Dou	11	8,110		·			-	
										(80)	(31,520)						
				•													
						4.	Nong	1.	Nong Khayang	8	2,930						
							Khayang	2.	Nong Phai	9 4	2,350						
								3.	Don Kloi	6	1,270		•				
			•					4.	Huai Rob	3	630			÷			
	٠.							5.	Thung Phung	7	1,450		*				
						•		6.	Tha Pho	4	2,060		•				
	-							7.	Mhok Thaew	3 %	310						
		7.5		d.	and the second second		250	8.	Lum Khaow	. 7 .	2,390	•					
						٠		9	Dong Kwang	6	2,940						
			1.50				and the second			(53)	(16,320)		•		•		

PHETCHABUN

Уı	mphoe		Tambon	No.c	f	A	nphoe		Tambon	No.o	E
Inde	x	Index		Mu	-	Inde	×	Index		Mu	Popu-
No.	Name	No.	Name	Baı	a lation	No.	Name	No.	Name	Ban	<u>latio</u>
				•							
	Muang	1.	Nai Muang	1	19,610	4.	Nong Phai	1.	Khong Toon	14	19,510
. 1	Phetcha-	2.	Tabou	8	5,290			2.	Na Chaliang	10	24,260
ł	oun	3.	Ban Toke	11	12,870			3.	Ban Pot	12	14,790
		4.	Sadiang	8	13,880			4.	Tha Daeng	14	16,750
		5.	Pa Las	. 8	6,180	100		5.	Phetlakorn	7.	11,230
		6.	Na Ngua	9	11,320			6.	Bo Thai	8	9,540
		7.	Tha Pon	11	9,810			7.	Huai Pong	6.	7,880
		8.	Dong Moon Laek	7	5,490			:	-	(71)	(103,960
		9.	Ban Khok	10	10,110				4	, ,	,,.
		10.	Chon Phrai	6	7,790	5.	Wichian	1.	Tha Rong	12	18,150
		11.	Na Pa	8	9,880		Buri	2.	Sa Pradou	8	5,350
		12.	Na Yom	8	7,660			3.	Sam Yaek	. 9	5,340
		13.	Wang Chom Phu	8	8,880			4.	Khok Prong	12	9,280
		14.	Nam Ron	4	4,360			5.	Nam Ron	8	7,610
		15.	Huai Sakhae	11	7,410			6.	Bo Krung	10	
		16.	Huai Yai	6	6,010			7.	Phu Toey	10	8,910
				(124)	(146,570)			8.	Phu Kham		15,240
			4	(4.0.1)	(210/510)	•		9.		10	5,210
2. I	om Kao	1.	Lom Kao	13	11,150				Phou Nam Yot	13	3,610
		2.	Na Sum	8	5,780			10.	Sub Somboon	10	3,63
		3.	Hin How	13	7,090					(104)	(86,320
		4.	Ban Noen	13 7		6.	Chon Daen	1.	Chon Daen	1.0	20.046
		5.	Sila		3,210	٠.	Chon baen	2.		16	22,240
		6.	Na Saeng	9	7,630				Dong Khui	16	20,330
		7.	Wang Ban	7	3,490			3.	Wang Pong	12	17,400
		8.	Na Kho	13	9,290	•		4.	Tai Dong	13	14,220
		9.		6	2,980			5.	Tha Kham	15	23,600
		٥.	Tat Kloi	6	3,200					(72)	(97,800
			•	(82)	(53,830)	~	a	_		•	
			•	· *	*	7.	Si Thep	1.	Si Thep	15	15,970
3. L	om Sak	1.	Lom Sak	ı"	14,440			2.	Sa Krout	14	12,380
		2,	Wat Pa	5	6,390			3.	Klong Krachang	13	9,200
		3.	Tan Diew	1.3	6,200			4.	Na Sanun	8.	6,820
		4.	Fai Na Saeng	6	2,730			5.	Khok Sauat	11	5,940
		5.	Nong Sawang	4	1,300				t de la companya de La companya de la co	(61)	(50,300
		6.	Nam Hia	5	1,650		•				** .
		7.	Sak Long	9	7,170	-8.	Bung Sam	1.	Subsamo Thot	15	17,450
	•	8.	Tha Ibun	9	7,470	i.	Phan	2.	Submai Daeng	17	23,290
		9.	Ban Sok	. 8	7,550			3.	Nong Chaeng	8	8,020
	•	10.	Ban Tiew	9	8,950			4.	Kunju	10	10,600
		11.	Huai Rai	8	9,920					(50)	(59,360
	· ·	12.	Nam Kho				eg e g				(02)00
				10	9,740	9.	Nam Nao	1,	Nam Now	11	9,280
		13.	Pak Chong	9	6,720			2.	Lak Dan	6.	2,200
		14.	Nam Chun	. 11	7,980					(17)	(11,480
		15.	Nong Kwai	11	6,450					77.77	(11,40)
		16.	Lan Ba	11	6,560	(9)	1	(78)		. /7661	IDEA CAR
		17.	Bung Khla	1.0	7,980	, - ,		(,0)		(755)	(754,540
		18.	Bung Nam Tao	9	5,370	TOTAL					
		19.	Ban Khlong	19	10,450	TOTEXT	<u>•</u>				
		20.	Camp Son	7	9,900	153	. 1	,214		10 423	0 222 42
				(174)	(144,920)	E J J	.1	- p & J. Ct		10,431	9,322,450

Appendix 2-2 TRANSITION OF MAIN CROPS PRODUCTION IN THE NORTHERN REGION
- PLANTED AREA, PRODUCTION & AVERAGE YIELD (1973-1978)

1. Paddy (Major Rice Crops)

		Plan	ted Area	(1,000	rai)		·	Prod	uction (1,000 to	ns)			Y	ield per	rai (kg)	<i>:</i>
	1973/74	74/75	75/76	76/77	77/78	78/79	1973/74	74/75	75/76	76/77	77/78	78/79	1973/74	74/75	75/76	76/77	77/78	78/79
Whole Country	50,232	47,821	53,244	50,859	53,465	58,410	13,886	12,447	14,092	13,674	12,335	15,206	276	260	265	269	231	260
Northern Regions	11,316	10,181	11,648	10,546	11,660	12,638	3,899	3,780	4,125	3,973	3,550	4,772	345	371	354	377	304	378
Zone 6	3,007	2,684	3,441	2,855	3,179	3,754	935	934	1,148	856	642	1,195	311	348	334	300	202	318
01 Nakhon Sawan	1,967	1,780	1,702	1,584	1,662	1,781	544	600	407	397	297	502	277	337	239	251	178	282
16 Uthai Thani	432	388	628	506	682	729	124	106	229	132	73	162	287	273	364	260	1.07	222
17 Phetchabun	608	516	1,111	765	835	1,244	267	228	513	327	272	531	439	442	461	427	326	427
Zone 8	3,996	3,426	3,985	3,542	3,568	3,810	1,197	1,107	1,151	1,285	835	1.332	300	323	289	363	234	350
02 Phichit	1,695	1,183	1,512	1,759	1,631	1,502	470	332	473	645	407	560	277	281	313	367	250	373
03 Phitsanulok	1,283	1,231	1,449	923	967	1,204	382	452	332	344	260	467	298	367	229	373	269	388
13 Tak	381	449	138	148	197	205	188	141	56	58	67	57	493.	31.4	.405	395	340	279
15 Kamphaeng Phet	637	563	887	713	773	900	157	182	290	238	1.00	247	246	223	327	334	130	275
Zone 9	1,975	1,835	2,084	1,663	2,219	2,305	7 65	713	825	647	793	927	387	389	396	389	357	402
04 Uttaradit	427	348	489	322	444	430	169	124	195	134	181	196	396	356	399	415	407	408
05 Phrae	276	264	187	192	332	262	122	124	106	90	164	142	442	470	564	467	492	540
06 Lampang	384	305	362	317	543	400	178	138	180	120	168	170	464	452	498	379	309	425
07 Nan	259	212	241	223	242	278	99	108	124	93	108	120	382	509	513	415	448	430
14 Sukhothai	629	706	805	609	658	885	197	219	221	211	172	300	313	310	274	346	262	339
Zone 10	2,338	2,236	2,138	2,485	2,694	2,769	1,002	1,026	1,001	1,185	1,281	1,317	429	459	468	477	475	476
09 Chiang Rai	1,421	1,392	999	1,565	1,723	1,000	630	626	501	782	804	469	443	450	501	500	467	469
10 Chiang Mai	680	614	761	665	658	796	294	310	373	297	330	412	432	505	491	448	502	518
ll Mae Hong Hon	80	60	86	99	114	85	22	31	27	43	59	44	275	517	317	434	518	520
12 Lamphun	157	170	293	1.57	1.99	217	56	59	99	62	87	94	3 57	347	339	398	437	434
08 Phayao	~	-	uin,	-	_	671	-		work			298	. =	•••		_		444

Source: Agricultural Statistics of Thailand 1977/78 & 1978/79.

Office of Agricultural Economics,

Ministry of Agriculture & Cooperatives.

Appendix 2-2 TRANSITION OF MAIN CROPS PRODUCTION IN THE NORTHERN REGION
- PLANTED AREA, PRODUCTION & AVERAGE YIELD (1973-1978) (Continued)

		Plan	ted Area	(1,000 1	rai)			Produ	uction (J	1,000 to	ns)			Y	ield per	rai (kg)) 	
	1973/74	74/75	75/76	76/77	77/78	78/79	1973/74	74/75	75/76	76/77	77/78	78/79	1973/74	74/75	75/76	76/77	77/78	78/79
Whole Country	7,172	7,749	8,200	8,029	7,534	8,661	2,337	2,500	2,863	2,675	1,677	2,791	326	323	349	333	223	322
Northern Regions	3,503	3,624	4,032	3,502	3,757	4,795	1,154	1,207	1,441	1,212	917	1,633	329	333	357	346	244	341
Zone 6	2,080	2,440	2,855	2,446	2,535	3,305	788	884	1,039	892	668	1,255	379	362	364	365	263	380
01 Nakhon Sawan	1,080	1,000	848	1,016	757	1,154	308	320	264	315	153	477	285	320	311	310	202	413
16 Uthai Thani	200	220	339	269	350	543	80	44	90	65	56	128	400	200	265	213	161	235
17 Phetchabun	800	1,220	1,669	1,161	1,428	1,608	400	520	686	512	458	651	500	426	411	441	321	405
Zone 8	-638	730	609	497	676	836	197	185	208	148	148	224	309	253	341	297	219	268
02 Phichit	138	150	131	132	1.23	135	50	40	49	37	33	39	362	267	374	278	270	291
03 Phitsanulok	350	430	378	217	331	325	105	100	125	71	7.3	92	300	233	330	326	222	282
13 Tak		50	45	84	98	130	-	15	16	21.	28	34		300	360	249	287	264
15 Kamphaeng Phet	150	100	56	64	125	246	42	30	18.	19	14	59	280	300	325	300	109	238
Zone 9	722	374	414	371	387	411	145	106	132	106	59	98	201	283.	318	287	152	239
04 Uttaradit	120	100	134	121	108	137	36	30	44	41	9	29	300	300	333	342	86	211
05 Phrae	72	70	83	77	74	45	22	25	30	18	16	11	306	357	365	239	216	247
06 Lampang	30	44	24	9	20	19	9	1.3	6	5	4	5	300	295	256	495	181	278
07 Nan	50	50	74	59	115	123	18	20	24	18	17	34	360	400	317	309	145	281
14 Sukhothai	450	110	99	. 105	69	88	60	18	27	24	13	1.9	133	164	275	229	192	214
Zone 10	63	80	153	1.88	159	243	24	32	62	66	42	55	381	400	403	351	264	228
09 Chiang Rai	63	80	106	159	143	196	24	32	. 48	56	37	44	381	400	449	352	256	222
10 Chiang Mai			47	22	14	16	·	***	14	7	. 5	3			298	337	338	21
ll Mae Hong Hon			4						. 1.	· .			<u>.</u>		300	; *****	*ALV	
12 Lamphun	_	- .	. 3	2			-		1	0.	5 -	*** **	7	**************************************	472	275	-	
OB Phayao	_	-	_		·	31	· -	-			-	8	-					27:

Appendix 2-2 TRANSITION OF MAIN CROPS PRODUCTION IN THE NORTHERN REGION
- PLANTED AREA, PRODUCTION & AVERAGE YIELD (1973 - 1978) (Continued)

3. Mungbean

		Plant	ed Area	(1,000 r	cai)			Produ	ction (1	,000 ton:	ട)			Υ:	ield per	rai (kg)	
	1973/74	74/75	75/76	76/77	77/78	78/79	1973/74	74/75	75/76	76/77	77/78	78/79	1973/74	74/75	75/76	76/77	77/78	78/79
Whole Country	1,596	1,293	1,022	1,392	2,720	2,638	209	188	121	125	207	259	131	145	118	90	76	98
Northern Regions	1,105	866	738	1,173	2,030	2,019	153	126	91	109	153	202	138	146	123	93	76	100
Zone 6	366	331	302	539 ·	806	986	50	51	35	49	64	101	137	154	116	90	79	103
01 Nakhon Sawan	216	152	119	206	262	288	32.3	3 22.6	16.5	18.3	21.8	37.1	149	149	139	89	83	129
16 Uthai Thani	3	1	3	11	15	17	0.4	0.2	0.6	1.0	1.0	2.0	150	178	171	90	68	119
17 Phetchabun	147	178	180	322	529	682	17.4	28.0	17.9	29.2	41.3	62.1	118	158	99	91	7.8	91
Zone 8	449	283	219	385	605	722	60	42	28	36	42	71	133	147	129	95	69	97
02 Phichit	87	77	24	105	107	135	15.2	2 13.4	1 2.9	7.7	9.8	3 14.3	175	173	121	73	92	106
03 Phitsanulok	199	126	108	170	283	366	21.5	5 14.4	1 13.4	17.8	23.5	5 40.2	108	114	124	105	83	110
13 Tak	8	5	7	5.	13	11	1.3	3 0.8	3 1.0	0.4	0.8	1.0	167	155	157	88	58	91
15 Kamphaeng Phet	156	75	80	105	202	210	21.9	3 13.1	11.0	10.5	7.7	7 15.6	141	176	137	100	38	74
Zone 9	268	236	195	240	589	285	39	30	25	23	45	26	148	128	126	97	77	92
04 Uttaradit	72.	31	37	57	71	84	11.9	3 4.0	4.9	5.8	5.7	7.7	166	132	132	101	80	91
05 Phrae	7	12	-	13	15	14	1.0	1.7	<i>-</i>	1.3	0.9	9 1.4	140	134	-	85	57	95
06 Lampang	6	4	•	-	20	3	0.8	3 0.8	3 -	· <u>-</u> ·	1.0	0.3	133	196	-		55	99
07 Nan	1	2	0.	4 3	85	27	0.1	1 0.4	1 0.0	0.3	6.0	0 3.0	90	189	61.	92	70	112
14 Sukhothai	181	186	157	166	397	156	25.	5 23.2	2 19.7	16.0	31.	5 13.9	142	124	125	97	79	89
Zone 10	22	16	22	9	30	26	. 3	4	. 3	0.5	5 3	3	153	229	136	51	84	120
09 Chiang Rai	3	1	1	2	2.	5 6	0.	4 0.2	2 0.1	L 0.1	1. 0.	3 0.5	160	158	141	49	104	89
10 Chiang Mai	2	0.	6 2	2	2.	4 5	0.	5 0.2	2 . 0.3	0.3	0.	2 0.5	187	274	134	49	101	101
ll Mae Hong Hon	- π	1		0.	3 -	- -		0.3	2 -	0.0)3	••	-	192	-	97	-	
12 Lamphun	17	1.3	19	5	23	16	2.	5 3.	2 2.6	5 0.3	3 1.	9 2.2	147	. 236	136	50	83	137
08 Phayao	. -	•			2		-				0.	1 -	·		·	<u></u> .	49	٠

Appendix 2-2 TRANSITION OF MAIN CROPS PRODUCTION IN THE NORTHERN REGION
- PLANTED AREA, PRODUCTION & AVERAGE YIELD (1973 - 1978) (Continued)

4. Soybeans

		Plan	ted Area	(1,000	rai)			Produ	ction (1	,000 ton	s)			Yi	leld per	rai (kg))	
	1973/74	74/75	75/76	76/77	77/78	78/79	1973/74	74/75	75/76	76/77	77/78	78/79	1973/74	74/75	75/76	76/77	77/78	78/79
Whole Country	766	823	738	635	958	1,010	104	110	114	114	96	159	136	134	154	179	94	157
Northern Regions	669	68.7	674	558	796	837	90	95	104	102	78	133	135	139	155	182	. 98	159
Zone 6	145	119	55	120	246	200	27	20	9	17	26	34	182	168	164	141	105	172
Ol Nakhon Sawan	80	22	25	92	58	6	15.7	2.7	4.3	12.3	7.4	0.9	197	122	174	134	128	161
16 Uthai Thani	0.7		1	3	-	1.	0.]	0.1	0.1	0.4		0.2	174	133	115	120		147
17 Phetchabun	64	96	29	25	1.88	193	10.9	17.3	3 4.5	4.2	18.4	33.1	169	180	157	168	98	172
Zone 8	41	53	36	37	107	73	5	7	-5	5	15	11	1.27	130	132	130	138	15
02 Phichit	2	4		_		_	0.3	3 0.4	1		-		133	115	-		-	
03 Phitsanulok	8	16	16	5	7	-21	1.0	2.3	3 2.2	2 0.8	0.8	2.5	134	139	134	158	116	12
13 Tak	17	13	7	30	28	36	2.5	5 2.0	1.1	_ 3.9	9. 3.3	6.4	145	157	160	128	117	17
15 Kamphaeng Phet	14	20	1.3	2	73	16	1.	1 2.2	2 1.5	0.1	10.8	2.5	99	108	115	. 80	149	15
Zone 9	331	342	420	.319	295	389	44	50	67	62	16	54	133	146	161	193	56	14
04 Uttaradit	7	24	25	43	37	-39	1.0	2 2.8	3 4.0	11.3	3.6	6.5	176	120	163	263	96	16
05 Phrae	14	1.1	7	22	20	48	2.2	2 1.	0.8	3.7	2.0	8.1	156	100	115	172	101	16
06 Lampang	8	8	2	1	8	6	0.1	7 0.8	3 0.3	0.3	3 1.0	0.7	96	104	112	250	123	12
07 Nan	Page 1	2	 ,	6	1	1	· - .	0.0	04 -	0.8	3 0.1	0.1		86	. ***	135	81	12
14 Sukhothai	302	298	386	247	228	295	40.	0 45.0	0 62.3	3 45.4	9.7	38.9	132	151	162	184	43	13
Zone 10	152	173	164	-83	148	176	14	19	23	19	21	33	95	107	142	224	141	18
09 Chiang Rai	9	. 8	7	2	12	. 9	1.	1 0.8	8 1.1	0.2	2 2.0	1.4	115	98	143	114	162	ΤΞ
10 Chiang Mai	142	152	143	64	119	155	13.	2 16.	20.1	14.	5 15.5	5 29.7	93	106	1.41	227	131	. 19
11 Mae Hong Hon	***	10	11	12	16	5	* ±** * **	1.	3 1.8	3 .4	4 3.1	1.1		129	166	287	198	20
12 Lamphun	1	3	3	5	1	4	0.	1 0.	4 0.3	3 0.3	3 0.2	0.8	105	129	118	75	137	23
O8 Phayao		***	=-	***	0.	2 3		***			0.3	1 0.3	. · -		-		. 366	1.

Appendix 2-2 TRANSITION OF MAIN CROPS PRODUCTION IN THE NORTHERN REGION
- PLANTED AREA, PRODUCTION & AVERAGE YIELD (1973 - 1978) (Continued)

5. Groundnuts

		Plan	ted Area	(1,000)	rai)			Produ	ction (1	,000 ton	s)			Y :	ield per	rai (kg) 	
	1973/74	74/75	75/76	76/77	77/78	78/79	1973/74	74/75	75/76	76/77	77/78	78/79	1973/74	74/75	75/76	76/77	77/78	78/79
hole Country	774	814	736	761	641	660	147	161	142	152	106	128	189	198	193	199	165	193
orthern Regions	374	369	329	374	416	360	70	79	68	79	68	73	186	213	206	211	1.64	203
Zone 6	96	66	57	105	43	36	22	19	17	17	7	5	234	288	288	165	164	149
01 Nakhon Sawan	60	34	31	76	9	20	14.9	11.1	9.8	11.0	1.3	2.9	249	327	321	146	144	147
16 Uthai Thani	3	2	3	3	5	5	0.5	0.2	0.6	1.2	0.5	0.4	174	148	172	370	107	86
17 Phetchabun	33	30	24	26	29	11	7.1	7.7	6.1	5.0	5.2	2 1.8	211	252	261	196	193	168
ione 8	33	34	33	28	17	20	5	6	6	8	3	3	166	189	179	285	186	172
02 Phichit	1.	1	5	9	3	0.7	0.2	0.2	0.8	3.9	1.3	0.2	137	229	151	428	424	299
03 Phitsanulok	1.4	14	13	13	0.3	1 4	2.1	3.1	2.7	3.0	0, 0	0.8	158	218	214	225	. 87	17
13 Tak	7	9	8	4	5	8	1.6	1.6	1.4	0,7	0.9	9 1.5	219	187	183	178	174	18
15 Kamphaeng Phet	10	10	7	2.	8	6	1.4	1.5	1.0	0.5	0.8	3 1.0	142	146	135	239	101	1.5
Zone 9	150	169	141	152	215	147	24	32	25	32	. 28	26	157	189	178	208	128	17
04 Uttaradit	14	17	17	18	14	1.7	2.1	2.6	2.7	2.7	1.1	7 2.9	152	160	159	147	115	17
05 Phrae	44	45	34	30	35	25	6.0	6.8	5.2	7.0	6.3	3 4.8	136	153	151	235	180	19
06 Lampang	37	39	49	68	65	43	8.7	10.1	. 10.5	15.9	10.1	7 7.3	237.	255	216	235	166	17
07 Nan	26	41	31	32	84	52	3.1	8.5	5.1	5.5	8.	4 9.0	121	205	165	174	100	17
14 Sukhothai	30	27	11	5	17	10	3.8	3.9	1.8	0.5	5 0.	5 1.5	126	145	161	103	30	14
Zone 10	95	100	97	8.9	141	158	18	21	20	22	30	:39	192	214	206	248	215	24
09 Chiang Rai	27	28	45	33	33	49	4.6	5 5.1	8.6	8.0	5.	1 12.2	173	179	192	244	154	24
10 Chiang Mai	51	56	. 32	32	52	61	10.7	7 13.3	5.5	6.3	12.	9 15.5	210	238	175	196	250	25
11 Mae Hong Hon	4	4	4	7	15	16	0.8	3 0,8	0.7	2.1	1 4.	1 3.9	174	176	173	306	267	35
12 Lamphun	13	12	17	17	21	14	2.2	2 2.3	5.2	5.7	7 3.	6 3.5	1.64	197	312	329	177	
O8 Phayao	-		,	-	21	19	· ·	· .		· _	4.	7 3.9		-		•	222	20

Appendix 2-2 TRANSITION OF MAIN CROPS PRODUCTION IN THE NORTHERN REGION
- PLANTED AREA, PRODUCTION & AVERAGE YIELD (1973 - 1978) (Continued)

6. Sugar Cane

		Plan	ted Area	(1,000 r	ai)			Prod	uction (1,000 to	ons)			Υ.	ield per	rai (kg)		
	1973/74	74/75	. 75/76	76/77	77/78	78/79	1973/74	74/75	75/76	76/77	77,778	78/79	1973/74	74/75	75/76	76/77	77/78	78/79
Whole Country	1,616	1,935	2,443	3,119	3,541	3,190	13,339	14,592	19,910	26,094	18,941	20,560	8,253	7,540	8,148	8,367	5,349	6,445
Northern Regions	144	225	243	439	462	392	1,216	1,604	1,619	3,575	2,355	2,102	8,456	7,128	6,649	8,146	5,099	5,365
Zone 6	38	40	43	133	121	86	328	300	327	1,235	546	474	8,677	7,500	7,550	9,308	4,508	5,540
01 Nakhon Sawan	38	40	37	100	59	56	328	300	288	941	266	339	8,677	7,500	7,865	9,379	4,472	6,100
16 Uthai Thani	-	***	=	27	60	30	, , te		****	261	269	135	-			9,553	4,492	4,500
17 Phetchabun	EL-P	-	7	. 5	2	-		-	39	33	11		557	***	5,828	6,558	6,342	-
Zone 8	66	113	117	164	174	138	659	900	803	1,496	877	754	9,958	8,000	6,860	9,143	5,032	5,477
02 Phichit	0.5	; 	~	 •••	1	2	5	. - .	. ****		6	7	10,000	•	-	*	4,713	4,700
03 Phitsanulok	, -	~~		5	3	3			_	27	16	12			-	5,467	5,498	4,700
13 Tak	1		. -	0.3		···	11			2			10,000		***	6,526		-
15 Kamphaeng Phet	65	113	117	158	170	133	644	900	804	1,467	854	735	9,957	8,000	6,860	9,264	5,026	5,550
Zone 9	38	. 71	81	136	167	168	218	392	478	810	932	874	5,782	5,559	5,893	5,956	5,598	5,185
04 Uttaradit	19	53	53	45	126	123	95	260	315	292	692	635	5,000	4,906	5,915	6,531	5,487	5,181
05 Phrae	بنف			***	₩.	45-	ка	-			· · · · · · · ·	_	-		~	-	-	
06 Lampang	14	18	17	52	40	46	92	132	82	3 03	240	238	6,390	7,535	4,752	5,832	5,944	5,200
07 Nan	-	**usi	vay		-			- where	-	_	· -	-	· . 			-	424	
14 Sukhothai	4		10	39	·	·	31		80	215	. –	· _	7,235	***	7,687	5,467	_	
Zone 10	2	2	2	7	∸ ∉	_	10	12	10	34	, a ,		5,000	6,000	5,343	5,199	_	
09 Chiang Rai			***	7	-	· · · · · ·	ein.			34	-	-	· -	- m	· -	5,199	,	•
10 Chiang Mai	2	2	2	. ·	· •	1	10	. 12	10	· · · · · ·	. 200	· ·	5,000	6,000	5,343	***		•
11 Mae Hong Hon					 '		-				. ~	•	· ·			-		-
12 Lamphun			·. — —		_	,			· · · · -			. وسد	-	-	· 			-
08 Phayao	***			-		-		·	-					-		4E1-4	**	-

Appendix 2-2 TRANSITION OF MAIN CROPS PRODUCTION IN THE NORTHERN REGION
- PLANTED AREA, PRODUCTION & AVERAGE YIELD (1973 - 1978) (Continued)

7. Cassava Root

		Plan	ted Area	(1,000	rai)			Produ	ction (1,000 to	ons)			Yi	eld per	rai (kg)	
	1973/74	74/75	75/76	76/77	77/78	78/79	1973/74	74/75	75/76	76/77	77/78	78/79	1973/74	74/75	75/76	76/77	77/78	78/79
Whole Country	2,725	3,000	3,715	4,373	6,000	6,313	5,668	6,240	8,100	10,138	12,372	15,048	2,080	2,080	2,180	2,318	2,062	2,384
Northern Regions	157	92	129	105	186	127	355	224	330	272	446	335	2,268	2,428	2,559	2,594	2,399	2,649
Zone 6	61	24	29	4	51	62	126	54	64	13	131	170	2,058	2,219	2,198	3,374	2,555	2,740
01 Nakhon Sawan	30	14	17	4	20	28	53	- 29	38	13	27	66	1,732	2,115	2,213	3,374	1,320	2,365
16 Uthai Thani	7	2	4		31	34	21	б	10		104	103	3,032	2,561	1,548	700	3,376	3,054
17 Phetchabun	24	. 8	. 8		. 🕶	0.3	52	18	16	essi.		0.7	2,196	2,297	1,989			2,588
Zone 8	80	52	79	96	89	64	204	146	228	249	173	165	2,571	2,847	2,898	2,597	1,943	2,565
02 Phichit	0.4	1 2			_	-	0.5	2.5	; -	_	*** ·	. 	1,297	1,537	.			
03 Phitsanulok	1.1	12	15	22	16	19	28	48	62	46	10	32	2,545	4,009	4,194	2,060	624	1,673
13 Tak	0.5	0.	5 . 0.6	6 -	. -	1	0.2	0.2	2 0.	2 -	- .	1.5	418	318	333	-	-	1,322
15 Kamphaeng Phet	68	37	63	74	73	44	176	95	166	203	163	131	2,598	2,560	2,617	2,762	2,237	2,981
Zone 9	8	8	11	5	13	0.2	12	9	23	11	40	0.3	1,463	1,191	2,042	-04	3,031	1,347
04 Uttaradit	0.7	. 0.	7 2	5	12	-	0.7	1.4	7.	2 10.	6 38.	0 -	1,050	2,343	3,605	1,963	3,091	-
05 Phrae	1	1	3	~	-	***	1.1	0.8	8.	1 -	-		954	817	2,396	. –	_	-
06 Lampang	3	5	5		1	- ;	5.9	4.3	6.	9 -	2.	3 -	1,714	884	1,269	-	2,307	-
07 Nan	2	0.	5 0.3	2 -	•	0.2	2.4	0.9	0.	3 -		0.3	1,558	1,725	1,669	1,963		1,347
14 Sukhothai	2	0.	7 0.1	1 -	*·a	-	2.3	1.8	3 0.	1 -	· <u>-</u>	 .	1,384	2,394	1,308	-		
Zone 10	7	9	. 10	_	32	. -	12	15	15	_	101	: steps	1,654	1,686	1,524	***	3,161	•
09 Chiang Rai	5	5	7	_	32		8.3	3 10.6	5 10.	7 -~	101.	2 -	1,696	2,124	1,569		3,161	
10 Chiang Mai	2	3	2		_		3.0	3.1	L 2.	7	·		1,594	1,014	1,348	-	_	
ll Mae Hong Hon	0.1	٥.	3 0.:	3 -			0.3	0.3			· _		685	1,079	1,131	-	-	
12 Lamphun	0.3	0.	8 0.8	8 -	٠ ـــ	· <u> </u>	0.6	5 1.4	1 1.	5 -		twe .	1,733	1,707	1,743		-	
08 Phayao			-	-		-	- Harden	'***		-	<u>-</u>	No.	· .			-14	_	
									-									

Appendix 2-2 TRANSITION OF MAIN CROPS PRODUCTION IN THE NORTHERN REGION
- PLANTED AREA, PRODUCTION & AVERAGE YIELD (1973 - 1978) (Continued)

8. Cotton

Whole Country 181 323 188 154 528 429 28 56 29 27 91 74 157 175 153 174 172 1 Northern Regions 86 205 77 66 214 158 13 35 11 9 35 26 149 171 139 136 164 1 201 Nakhon Sawan 3 3 2 1 2 4 0.7 0.6 0.4 0.3 0.4 0.9 220 210 239 205 200 200 200 200 209 210 239 205 200 20 20 20 210 239 205 200 20 20 10 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 20 20													<u>,</u>						
Nhole Country 161 323 188 154 528 429 28 56 29 27 91 74 197 175 153 174 172 1 Northern Regions 86 205 77 66 214 158 13 35 11 9 35 26 149 171 139 136 164 1 Zone 6 30 62 21 42 125 109 4 13 3 6 6 24 19 121 203 146 142 192 1 01 Nakthen Sawan 3 3 2 2 1 2 4 0.7 0.6 0.4 0.3 0.4 0.9 220 210 239 205 206 206 164 175 Northern Persistent Control of the Con			Plan	ted Area	(1,000:	rai)	·		Produ	uction (1	,000 to	ns)			Y	ield per	rai (kg)	
Northern Beylons 86 205 77 66 214 156 13 35 11 9 35 26 149 171 139 136 164 1 Zone 6 30 62 21 42 125 109 4 13 3 6 24 19 121 201 146 142 102 1 O1 Nakhon Sawan 3 3 2 1 2 4 0.7 0.6 0.4 0.3 0.4 0.9 220 210 239 205 200 23 O1 Wakhon Sawan 1 3 7 6 35 40 0.1 0.8 0.8 0.8 0.6 0.0 5.9 106 249 128 114 170 1 17 Phetchabun 26 56 12 35 88 65 2.0 11.3 1.8 5.1 17.5 12.1 109 20 143 144 200 1 Zone 8 4 9 1 - 9 3 3 0.6 2 0.1 - 2 0.6 136 175 119 - 188 2 Zone 9 50 132 23 3 1 - 4 - 2 0.3 0.2 0.1 - 0.6 - 91 99 119 - 154 Zone 9 50 132 23 32 4 78 44 8 21 7 3 9 6 163 113 1- 2 0.0 115 124 O4 Uttaradte 2 2 2 2 2 0.2 0.2 0.2 0.2 0.1 0.2 0.1 0.0 0.1 0.5 114 01 03 13 139 173 18 O6 Lampang 7 6 7 6 7 0.7 0.8 2 0.8 0.5 0.6 0.4 0.8 0.8 0.8 0.8 0.8 1.3 0.6 134 148 113 139 173 14 Zone 10 Campang 7 6 7 6 7 0.7 0.8 2 0.8 0.5 0.6 0.4 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8		1973/74	74/75	75/76	76/77	77/78		1973/74	74/75	75/76	76/77	77/78	78/79	1973/74	74/75	75/76	76/77	77/78	78/79
Sample S	Whole Country	181	323	188	154	528	429	28	56	29	27	91	74	157	175	153	174	172	174
01 Nakhon Sawan	Northern Regions	86	205	77	66	214	158	1.3	35	11	, .9	. 35	26	149	171	139	136	164	165
16 Otthai fiani 1 3 7 6 35 40 0.1 0.8 0.8 0.6 6.0 5.9 106 249 128 114 170 1 17 Phetchabum 26 56 12 35 88 65 2.8 11.3 1.8 5.1 17.5 12.1 109 201 143 144 200 1 70 Phichit	Zone 6	30	62	21	42	125	109	4	13	·	. · 6	24	19	121	203	146	142	192	173
17 Pletchabam 26 56 12 35 88 65 2.8 11.3 1.8 5.1 17.5 12.1 109 201 143 144 200 1 Zone 8	01 Nakhon Sawan	3	3	2	1	2	4	0.	7 0.0	6 0.4	1 0.	3 0	.4 0.9	220	210	239	205	200	219
Zone 8 4 9 1 - 9 3 0.6 2 0.1 - 2 0.6 136 175 119 - 188 2 02 Phichit -	16 Uthai Thani	1	3	7	6	35	40	0.	1 0.	8 0.8	3 0.	6 6	.0 5.9	106	249	128	114	170	145
02 Phichit	17 Phetchabun	26	56	12	35	88	65	2.	8 11.	3 1.8	3 5.	1 17	.5 12.1	109	201	143	144	200	185
03 Phichit 03 Phichit 03 Phitsanulok 2 3 1	Zone 8	4	9	1	-	9	3	0.,	6 2	0.1	i -	2	0.6	136	175	119	-	188	214
13 Tak	02 Phichit	. ***	-		_		***		erickeit	****					_	-	_		
15 Kamphaeng Phet 0.6 4 3 3 3 0.1 1.1 0.7 0.6 243 261 225 2 Zone 9 50 132 53 24 78 44 8 21 7 3 9 6 168 155 137 126 118 1 04 Uttaradit 2 2 2 2 2 0.2 0.7 1 0.2 0.2 0.1 0.01 0.1 0.2 82 93 96 50 201 1 05 Phrae 3 7 3 6 7 4 0.4 1.1 0.4 0.8 1.3 0.6 134 148 113 139 173 1 06 Lampang 7 6 7 0.7 0.8 2 0.8 0.5 0.6 0.04 0.1 0.5 114 81 93 55 195 1 07 Nan 6 7 5 1 30 9 0.9 0.9 0.9 0.6 0.2 3.1 1.0 145 118 116 128 103 1 14 Sukhothai 32 110 36 16 39 27 6.2 17.9 5.5 2.0 4.6 3.9 194 164 153 125 116 Zone 10 2 2 2 2 0.2 2 2 0.2 2 0.2 0.2 0.2 0.2	03 Phitsanulok	2	3	1	744	4	·	0.	1 0.	3 0.1	l -	0	.6 -	91	99	119		154	-
Zone 9 50 132 53 24 78 44 8 21 7 3 9 6 168 155 137 126 118 1 04 Uttaradit 2 2 2 2 0.2 0.7 1 0.2 0.2 0.1 0.01 0.1 0.2 82 93 96 50 201 0 05 Phrae 3 7 6 7 0.7 0.8 2 0.8 0.5 0.6 0.04 0.1 0.5 114 81 93 55 195 07 Nan 6 7 5 1 30 9 0.9 0.9 0.9 0.6 0.2 3.1 1.0 145 118 116 128 103 14 Sukhothai 32 110 36 16 39 27 6.2 17.9 5.5 2.0 4.6 3.9 194 164 153 125 116 Zone 10 2 2 2 0.2 2 2 0.2 2 2 0.2 0.2 0.2 0.2	13 Tak	2 .	2		-	2		0.	3 0.	2 -	-	0	.4 -	136	113	· –	-	200	₩ ,
04 Uttaradit 2 2 2 0.2 0.7 1 0.2 0.2 0.1 0.01 0.1 0.2 82 93 96 50 201 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	15 Kamphaeng Phet	0.6	5 4			3	3	0.	1. 1.	1 -	· 	0	.7 0.6	243	261	-	_	225	214
05 Phrae 3 7 3 6 7 4 0.4 1.1 0.4 0.8 1.3 0.6 134 148 113 139 173 1 06 Lampang 7 6 7 0.7 0.8 2 0.8 0.5 0.6 0.04 0.1 0.5 114 81 93 55 195 07 Nan 6 7 5 1 30 9 0.9 0.9 0.9 0.6 0.2 3.1 1.0 145 118 116 128 103 1 14 Sukhothai 32 110 36 16 39 27 6.2 17.9 5.5 2.0 4.6 3.9 194 164 153 125 116 Zone 10 2 2 2 0.2 2 2 0.2 2 2 0.2 0.2 0.2 0.2	Zone 9	50	132	53	24	78 ⁻	44	. 8	21	7	. 3	9	6	168	155	137	126	118	141
06 Lampang 7 6 7 0.7 0.8 2 0.8 0.5 0.6 0.04 0.1 0.5 114 81 93 55 195<	04 Uttaradit	2	2	2	0.	2 0.7	1	0.	2 0.	2 0.1	1. 0.	01 0	.1 0.2	82	93	96	50	201	117
07 Nan 6 7 5 1 30 9 0.9 0.9 0.6 0.2 3.1 1.0 145 118 116 128 103 14 Sukhothai 32 110 36 16 39 27 6.2 17.9 5.5 2.0 4.6 3.9 194 164 153 125 116 Zone 10 2 2 2 2 2 2 2 0.2 0.2 0.2 0.2 0.3 0.4 123 117 100 120 172 09 Chiang Rai 2 2 2 2 2 0.2 0.2 0.2 0.2 0.2 0.1 - 114 117 100 120 172 10 Chiang Mai - - 0.3 0.2 0.2 - - 0.03 0.02 0.04 - - - 101 120 201 11 Mae Hong Hon 0.4 - - - 0.1 - - - - - - - <td>05 Phrae</td> <td>3</td> <td>7</td> <td>3 -</td> <td>6</td> <td>7</td> <td>4</td> <td>0.</td> <td>4 1.</td> <td>1 0.4</td> <td>4 0.</td> <td>8 1</td> <td>.3 0.6</td> <td>134</td> <td>148</td> <td>113</td> <td>139</td> <td>173</td> <td>136</td>	05 Phrae	3	7	3 -	6	7	4	0.	4 1.	1 0.4	4 0.	8 1	.3 0.6	134	148	113	139	173	136
14 Sukhothai 32 110 36 16 39 27 6.2 17.9 5.5 2.0 4.6 3.9 194 164 153 125 116 Zone 10 2 2 2 0.2 2 2 0.2 2 0.2 0.2 0.2 0.2 0.	06 Lampang	7	6	7	0.	7 0.8	3 2	0.	.8 0.	5 0.6	ā 0.	.04 0	.1 0.5	114	81	93	55	195	200
Zone 10 2 2 2 0.2 2 2 0.2 2 0.2 0.2 0.2 0.2 0.	07 Nan	6	7	5	1	30	9.	0.	9 0.	9 0.6	6 0.	. 2 3	.1 1.0	145	118	1.16	128	103	120
O9 Chiang Rai 2 2 2 - 0.5 - 0.2 0.2 0.2 - 0.1 - 114 117 100 - 151 10 Chiang Mai - 0.3 0.2 0.2 - 0.1 - 0.03 0.02 0.04 101 120 201 11 Mae Hong Hon 0.4 0.2 - 0.1 0.04 - 162 151 12 Lamphun 0.1 0.4 0.01 0.04 127	14 Sukhothai	32	110	36	16	39	27	6.	2 17.	9 5.5	5 2	.0 4	.6 3.9	194	164	153	125	116	144
10 Chiang Mai - 0.3 0.2 0.2 0.03 0.02 0.04 101 120 201 11 Mae Hong Hon 0.4 0.2 - 0.1 0.04 - 162 151 12 Lamphun 0.1 0.4 0.01 0.04 127	Zone 10	2	2	2	0.	2 2	2	0.	.2 0.	2 0.2	2 0.	.02 0	0.3	123	117	100	120	172	177
11 Mae Hong Hon 0.4 0.2 - 0.1 0.04 - 162 151 12 Lamphun 0.1 0.4 0.01 0.04 127	09 Chiang Rai	2	2	2		0.5	-	0.	2 0.	2 0.2	2 -	Ç	-	114	117	100	-	151	-
12 Lamphun 0.1 0.4 0.01 0.04 127	10 Chiang Mai	cae		0.	3 0.	2 0.2	2			0. (03 0	.02 0	0.04 -	•••	-	101	120	201	
200	ll Mae Hong Hon	0.4	4 -	·		0.2	2 '	0.	1 -	_	. <u>-</u>		. 04 -	162	_	. -		151	
08 Phayao 0.5 1.6 0.1 0.3 200	12 Lamphun	-		···		0.1	0.4	<u> </u>	•••	· _		C	0.01	4 -			-		
	08 Phayao	-		~	-	0.9	5 1.6	-		_	į		0.1 .0.3	, Asse	-	· . .	ton	200	195

Appendix 2-3 CROP PRODUCTION OF AMPHOE IN THE MORTHERN REGION

Unit : ton
() : Percentage

	1			Top Three of	Crop Production			Other Course	
	Amphoe	No). 1	No	. 2	No.	3	Other Crops	Total
0100	M. NAKHON SAWAN	Sugar Cane	106,600 (51.8)	Rice	52,710 (25.6)	Veg. & Fruits	22,018 (10.7)	24,516 (11.9)	205,844
0102	LAT YAO	Rice	115,187 (72.8)	Cassava	24,000 (15.2)	Sugar Cane	15,135 (9.6)	3,820 (2.4)	158,142
0103	BANPHOT PHISAI	Rice	67,600 (63.8)	Sugar Cane	22,500 (21.2)	Veg. & Fruits	6,213 (5.9)	9,616 (9.1)	105,929
0104	KAO LIEO	Sugar Cane	148,000 (80.7)	Rice	30,075 (16.4)			5,285 (2.9)	183,360
0105	CHUMSAENG	Rice	73,911 (89.6)	Veg. & Fruits	6,884 (8.3)		•	1,654 (2.1)	82,449
0106	KROK PHRA	Rice	29,641 (48.7)	Sugar Cane	15,680 (25.8)	Veg. & Fruits	6,907 (11.3)	8,610 (14.2)	60,838
0107	PHAYUHA KHIRI	Rice	43,292 (48.9)	Maize	25,082 (28.3)	Beans	11,743 (13.3)	8,468 (9.5)	88,585
0108	TAKHLI	Maize	113,007 (32.7)	Rice	67,930 (19.7)	Veg. & Fruits	64,587 (18.7)	100,021 (28.9)	345,545
0109	THA TAKO	Rice	112,783 (91.6)		<u>.</u>	Not to the delicate		10,342 (8.4)	123,125
0110	PHAISALI	Rice	59,009 (47.8)	Maize	34,480 (28.0)	Beans	10,730 (8.7)	19,143 (15.5)	123,362
0111	NONG BUA	Rice	85,992 (73.4)	Maize	27,560 (23.5)		•	3,611 (3.1)	117,163
0112		Maize	42,075 (54.5)	Rice	9,497 (12.3)	Beans	8,991 (11.7)	16,575 (21.5)	77,138
0201	M. PHICHIT	Rice	151,014 (77.7)	Maize	21,528 (11.1)	Beans	8,704 (4.5)	13,114 (6.7)	194,360
0202	SAM NGAM	Rice	77,667 (93.1)	Maize	2,612 (3.1)	Beans	1,338 (1.6)	812 (2.2)	83,429
0203	TAPHAN HIN	Rice	129,561 (90.3)	Maize	13,199 (9.2)		•	744 (0.5)	143,504
0204	BANG MUN NAK	Rice	111,264 (95.1)	Veg. & Fruits	2,700 (2.3)			3,023 (2.6)	116,987
0205	PHO THALE	Rice	125,675 (83.8)	Maize	8,610 (5.7)	Beans	6,395 (4.3)	9,370 (6.2)	150,050
0206	PHO PRATHAP CHANG	Rice	43,716 (72.6)	Maize	13,600 (22.6)	Beans	2,283 (0.4)	576 (4.4)	60,175
0207	WANG SAI PHUN	Rice	38,817 (91.4)	Veg. & Fruits	1,700 (4.0)	Maize	1,384 (3.3)	555 (1.3)	
0301	M. PHITSANULOK	Rice	77,775 (83.0)	Veg. & Fruits	5,305 (5.7)	Sugar Cane	4,800 (5.1)	5,868 (6.2)	42,456 93,748
0302	PHROM PHIRAM	Rice	89,643 (76.6)	Maize	18,176 (15.5)	Beans	7,038 (6.0)	2,144 (1.9)	
0303	WAT BOT	Rice	18,096 (53.0)	Maize	10,264 (30.1)	Beans	6,734 (12.4)	978 (4.5)	117,001 34,116
0304	CHAT TRAKAN	Maize	16,091 (50.0)	Rice	8,245 (25.6)	Sugar Cane	4,800 (14.9)	2,983 (9.5)	
0305	NAKHON THAI	Maize	62,867 (55.9)	Cassava	27,200 (24.2)	Rice	13,026 (11.6)	9,432 (8.3)	32,119
0306	WANG THONG	Cassava	81,600 (50.6)	Rice	53,657 (33.2)	Maize	16,459 (10.2)	9,668 (6.0)	112,525
0307	BANG KRATHUM	Rice	48,329 (91.8)		•		. (10,2)	4,314 (8.2)	161,384
0308	BANG RAKAM	Rice	74,331 (69.7)	Maize	18,947 (17.8)	Beans	9,986 (9.4)	3,384 (3.1)	52,643
0309	NOEN MAPRANG	Rice	29,223 (77.0)	Maize	6,072 (16.0)		. (5.4)	2,643 (7.0)	106,648
0401	M. UTTARADIT	Sugar Cane	159,695 (74.8)	Rice	46,599 (21.8)			7,312 (3.4)	37,938
0402	FAK THA	Rice	4,096 (49.7)	Maize	2,613 (31.7)	*** 16 arran		1,534 (18.6)	213,606
0403	NAM PAT	Rice	7,143 (31.5)	Sugar Cane	4,215 (18.6)	Maize	4,033 (17.8)		8,243
0404	THA PLA	Sugar Cane	26,175 (55.4)	Rice	10,744 (22.7)	Maize	5,652 (12.0)	7,288 (32.1)	22,679
0405	LAPLAE	Rice	25,933 (87.8)	Sugar Cane	2,500 (8.5)	114111		4,668 (9.9)	47,239
	TRON	Sugar Cane	160,000 (76.7)	Rice	31,557 (15.1)			1,120 (3.7)	29,553
0407		Rice	51,330 (49.1)	Sugar Cane	28,400 (27.1)	Beans	13,441 (12.8)	16,984 (8.2)	208,541
	BAN KHOK	Rice	1,830 (50.8)	Maize	1,600 (44.4)	Deans	13,441 (12.0)	11,443 (11.0)	104,614
	M. PHRAE	Rice	39,441 (49.8)	Tobacco	24,600 (31.1)	Beans	10 023 (12 7)	175 (4.8)	3,605
	SONG	Rice	40,310 (61.6)	Tobacco	10,500 (16.0)	Maize	10,033 (12.7)	5,153 (6.4)	79,227
	RONG KWANG	Rice	25,201 (68.9)	Tobacco	6,020 (16.5)	Beans	6,895 (10.5)	7,776 (11.9)	65,481
			11,690 (35.8)	Maize	7,525 (23.0)		2,776 (7.6)	2,559 (7.0)	36,556
	DEN CHAI	Rice Rice	33,669 (52.0)	Maize	26,460 (40.9)	Tobacco	7,500 (22.9)	5,973 (18.3)	32,688
	LONG MEN		26,791 (61.7)	Tobacco	11,730 (27.0)		•	4,564 (7.1)	64,693
	SUNG MEN	Rice	18,422 (72.4)	Maize	4,379 (17.2)	*****	•	4,879 (11.3)	43,400
	WANG CHIN	Rice Fruits	The state of the s	Rice	59,300 (26.0)	Make -		2,661 (10.4)	25,462
	M. LAMPANG	Veg. & Fruits	86,467 (37.8) 17,566 (43.1)	Tobacco		Tobacco	51,610 (22.6)	31,081 (13.6)	228,458
	WANG NUA	Rice		Tobacco	10,800 (26.5)	Veg. & Fruits	8,589 (21.1)	3,811 (9.3)	40,766
	CHAE HOM	Rice	14,864 (45.1)	Tobacco	14,473 (43.9)		i i	3,643 (11.0)	32,980
	NGAO	Rice	15,167 (58.9)		4,508 (17.5)	Veg. & Fruits	3,630 (14.1)	2,465 (9.5)	25,770
	HANG CHAT	Sugar Cane	39,900 (60.3)	Rice	21,283 (32.1)		· · · · ·	5,017 (7.6)	66,200
	KO KHA	Sugar Cane	47,686 (70.9)	Rice	15,222 (22.6)			4,356 (6.5)	67,264
0607	MAE THA	Sugar Cane	28,150 (42.0)	Rice	25,193 (36.0)	Veg. & Fruits	10,348 (15.4)	6,301 (6.6)	69,992

Appendix 2-3 CROP PRODUCTION OF AMPHOE IN THE MORTHERN REGION (Continued)

Unit : ton () : Percentage

	Amphoe			Top Three of	Crop Production		•		
·		N	lo. 1	N	5. 2	No.	3	Other Crops	Total
0608	SOP PRAP	Sugar Cane	57,648 (80.6)	Rice	11,239 (15.7)		<u>.</u>	2,621 (3.7)	77 500
0609	THOEN	Rice	19,369 (66.3)	Sugar Cane	3,000 (10.3)	Cassava	2,322 (8.0)	2,621 (3.7) 4,512 (15.4)	71,508
0610	MAE PHRIK	Rice	4,000 (59.5)	Maize	1,672 (24.9)			1,051 (15.6)	29,203
0611	SOEM NGAM	Rice	8,901 (65.0)	Beans	1,450 (10.6)	Tobacco	1,195 (8.7)	2,162 (15.7)	6,723
0612		Rice	3,278 (64.6)	Beans	433 (8.5)		- ' '	1,366 (26.9)	13,708
0701		Rice	41,420 (51.8)	Tobacco	15,900 (19.9)	Maize	10,470 (13.1)	12,173 (15.2)	5,077
0702	THUNG CHANG	Rice	8,764 (41.5)	Tobacco	4,818 (22.8)	Cotton	3,220 (15.2)	4,320 (20.5)	79,963
0703	CHIANG KLANG	Tobacco	14,590 (44.0)	Rice	13,037 (39.3)	Maize	3,098 (9.3)	2,427 (7.4)	21,122
0704	PUA	Rice	20,595 (40.0)	Tobacco	12,096 (23.5)	Beans	8,933 (17.3)	9,897 (19.2)	33,152
0705	THA WANG PHA	Rice	19,641 (44.0)	Tobacco	18,702 (41.9)		- (17.3)	6,260 (14.1)	51,521
0706		Rice	3,048 (53.7)	Maize	1,282 (22.6)		_	1,348 (23.7)	44,603
0707	SA	Tobacco	41,773 (47.1)	Rice	24,248 (27.3)	Maize	15,070 (17.0)	7,662 (0.6)	5,678
0708	NA NOI	Rice	10,937 (45.0)	Tobacco	6,974 (28.7)	Maize	2,576 (10.6)	3,813 (15.7)	88,753
0709	BAN LUANG	Rice	4,096 (48.5)	Maize	1,282 (15.2)	Tobacco	901 (10.7)	2,166 (25.6)	24,300
0710	•	Rice	3,359 (80.2)				- 301 (10.7)	829 (19.8)	8,445
0801	M. PHAYAO	Rice	68,135 (79.4)	Veg. & Fruits	11,082 (12.9)		ي ميسيد والفقة كالمناب الميدون والمناب والمناب والمناب والمناب والمناب والمناب والمناب والمناب والمناب والمناب 	6,561 (7.7)	4,188
0802	CHIANG KHAM	Rice	38,780 (54.6)	Tobacco	13,400 (18.9)	Sugar Cane	8,400 (11.8)	10,431 (14.7)	85,778
0803	PONG	Tobacco	21,330 (52.4)	Rice	15,617 (38.4)			3,754 (9.2)	71,011
0804	CHIANG MUAN	Tobacco	9,168 (42.6)	Rice	7,414 (34.4)	Veg. & Fruits	3,583 (16.6)	1,366 (6.4)	40,671
0805	CHUN	Rice	50,613 (93.8)				- (10.0)	3,327 (6.2)	21,531 53,940
0806	DOK KHAM TAI	Rice	40,497 (76.8)	Maize	4,454 (8.4)	Beans	4,032 (7.6)	3,763 (7.2)	52,746
0807	MAE CHAI	Rice	30,099 (74.8)	Veg. & Fruits	7,702 (19.1)		- 1,032 (7.0)	2,454 (6.1)	40,255
0901	M. CHIANG RAI	Rice	102,685 (65.9)	Tobacco	21,854 (14.0)	Maize	11.745 (7.5)	19,474 (12.6)	155,758
0902	and the second s	Rice	26,998 (47.6)	Veg. & Fruits	17,679 (31.2)	Tobacco	6,254 (11.0)	5,739 (10.2)	56,67.0
0903	CHIANG SAEN	Rice	25,712 (53.8)	Tobacco	12,775 (26.7)	Cassava	5,300 (11.1)	3,988 (8.4)	47,775
0904	CHIANG KHONG	Rice	71,363 (69.8)	Veg. & Fruits	18,750 (18.3)		- (11,11)	12,085 (11.9)	102,198
0905	MAE CHAN	Rice	82,811 (76.2)	Maize	6,288 (5.8)	Tobacco	5,140 (4.7)	14,463 (13.3)	108,702
0906	THOENG	Rice	87,910 (65.7)	Maize	25,998 (19.4)	Tobacco	9,723 (7.3)	10,152 (7.6)	133,783
0907	PA DAET	Rice	42,602 (86.4)	Tobacco	1,500 (3.0)			5,221 (10.6)	49,323
0908	PHAN	Rice	113,770 (49.5)	Veg. & Fruits	88,469 (38.5)	Tobacco	17,300 (7.5)	10,148 (4.5)	229,687
0909	MAE SUAI	Rice	17,110 (47.0)	Veg. & Fruits	6,054 (16.6)	Cassava	3,374 (9.3)	9,891 (27.1)	36,429
0910	WIANG PA PAO	Rice	37,308 (53.6)	Tobacco	16,300 (23.4)	Veg. & Fruits	12,780 (18.4)	3,197 (4.6)	69,585
0911	WIANG CHAI	Rice	57,259 (74.9)	Veg. & Fruits	6.087 (8.0)	Tobacco	5,067 (6.6)	8,055 (10.5)	76,468
1001	M. CHIANG MAI	Veg. & Fruits	23,880 (59.7)	Rice	14,850 (37.1)			1,250 (3.2)	39,980
1002	MAE AI	Rice	35,300 (60.4)	Veg. & Fruits	8,991 (15.4)	Tobacco	8,540 (14.6)	5,640 (9.6)	58,471
1.003	FANG	Veg. & Fruits	66,359 (40.7)	Tobacco	55,140 (33.9)	Rice	39,303 (24.1)	2,056 (1.3)	162,858
1004	CHIANG DAO	Veg. & Fruits	21,010 (46.4)	Rice	16,510 (36.5)	Tobacco	5,152 (11.4)	2,613 (5.7)	45,285
1005	MAE TAENG	Tobacco	25,502 (37.1)	Veg. & Fruits	21,310 (31.0)	Rice	17,380 (25.3)	4,536 (6.6)	68,728
1006	PHRAO	Tobacco	23,990 (35.9)	Rice	23,608 (35.3)	Beans	8,812 (13.2)	10,482 (15.6)	66,892
1007	SAMOENG	Rice	6,037 (59.1)	Veg. & Fruits	3,990 (39.1)		- (13.1)	180 (1.8)	10,207
1008	MAE RIM	Rice	21,964 (60.0)	Tobacco	7,956 (21.8)	Beans	3,117 (8.5)	4,474 (9.7)	36,511
	SAN SAI	Rice	31,246 (53.3)	Tobacco	12,168 (20.7)	Veg. & Fruits	7,106 (12.1)	8,155 (13.9)	58,675
	DOI SAKET	Rice	32,291 (51.2)	Veg. & Fruits	18,174 (28.8)	Tobacco	10,998 (17.4)	1,602 (2.6)	63,065
	SAN KAMPHAENG	Rice	84,500 (72.7)	Veg. & Fruits	19,324 (16.6)	Tobacco	11,430 (9.8)	1,011 (0.9)	116,265
	SARAPHI	Rice	23,836 (49.8)	Veg. & Fruits	21,725 (45.4)		~ (5.0)	2,305 (4.8)	47,866
	HANG DÓNG	Rice	27,155 (59.6)	Veg. & Fruits	14,784 (32.4)			3,652 (8.0)	45,591
	SAN PA TONG	Rice	34,709 (39.7)	Veg. & Fruits	40,320 (46.1)	Beans	6,980 (8.0)	5,400 (4.9)	87,409
	CHOM THONG	Rice	37,700 (44.0)	Veg. & Fruits	31,292 (36.5)	Beans	4,203 (4.9)	12,560 (14.6)	85,755
	MAE CHAEM	Rice	6,400 (59.4)	Maize	2,630 (24.4)	Beans	1,077 (10.0)	670 (6.2)	10,777

Appendix 2-3 CROP PRODUCTION OF AMPHOE IN THE MORTHERN REGION (Continued)

Unit : ton
() : Percentage

	Amphoo			Top Three of	Crop Production			Other Cree	Total
	Amphoe -	No	. 1.	No	. 2	No. 3	3	Other Crops	. rocar
								APPLICATION DELINION OF THE PARTY TH	
1017	HOT	Rice	5,340 (39.7)	Veg. & Fruits	5,157 (38.3)	Beans	2,513 (18.7)	450 (3.3)	12 460
1018	OMKOI	Rice	7,480 (90.6)				-,020 (2017)	780 (9.4)	13,460
1019		Beans	8,167 (36.0)	Rice	7,222 (31.8)	Veg. & Fruits	6,288 (27.7)	1,014 (4.5)	8,260
1101	M, MAE HONG SON	Rice	7,849 (58.4)	Veg. & Fruits	2,996 (22.3)	Beans	1,481 (11.0)	1,108 (8.3)	22,691 13,434
1102		Rice	5,634 (45.2)	Veg. & Fruits	4,029 (32.4)	Maize	772 (6.2)	2,019 (16.2)	12,454
1103	KHUN YUAM	Rice	4,869 (75.4)	Veg. & Fruits	848 (13.1)		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	734 (11.5)	6,451
1104	MAE LA NOI	Rice	12,117 (45.7)	Veg. & Fruits	4,338 (16.4)	Tobacco	4,105 (15.5)	5,968 (22.4)	26,528
1105	MAE SARIANG	Rice	44,877 (59.9)	Veg. & Fruits	14,572 (19.4)	Beans	6,181 (8.2)	9,308 (12.5)	74,938
1201	M. LAMPHUN	Rice	59,175 (57.4)	Veg. & Fruits	32,205 (31.2)	Sugar Cane	8,700 (8.4)	3,098 (3.0)	103,178
1202	MAE THA	Rice	16,309 (46.1)	Tobacco	8,958 (25.3)	Veg. & Fruits	8.635 (24.4)	1,478 (4.2)	35,380
1203	PA SANG	Veg. & Fruits	53,143 (59.6)	Rice	32,080 (36.0)		• •	3,894 (4.4)	89,117
1.204	BAN HONG	Veg. & Fruits	73,812 (76.4)	Rice	12,098 (12.5)	Tobacco	10,080 (10.4)	634 (0.7)	96,624
1205	LI	Rice	6,403 (43.6)	Veg. & Fruits	4,668 (31.8)	Beans	2,482 (16.9)	1,134 (7.7)	14,687
1206	THUNG HUA CHANG	Rice	3,783 (59.6)	Veg. & Fruits	1,473 (23.2)			1,086 (17.2)	6,342
1301	M. TAK	Veg. & Fruits	34,872 (51.8).	Rice	12,529 (18.6)	Sugar Cane	11,200 (16.6)	8,757 (13.0)	67,358
1302	THA SONG YANG	Veg. & Fruits	9,020 (47.1)	Rice	7,180 (37.5)			2,961 (15.4)	19,161
1303	MAE RAMAT	Rice	9,030 (36.2)	Veg. & Fruits	7,835 (31.4)	Maize	4,068 (16.3)	4,006 (16.1)	24,939
1304	SAM NGAO	Rice	15,330 (50.9)	Veg. & Fruits	6,969 (23.2)	Maize	4,010 (13.3)	3,788 (12.6)	30,097
1305	BAN TAK	Rice	21,678 (51.2)	Maize	9,097 (21.5)	Veg. & Fruits	7,427 (17.6)	4,110 (9.7)	42,312
1306	MAE SOT	Rice	37,840 (63.9)	Maize	12,586 (21.3)	Veg. & Fruits	5,161 (8.7)	3,625 (14.8)	59,212
1307	UMPHANG	Veg. & Fruits	3,601 (52.0)	Rice	2,598 (37.5)		•	722 (10.5)	6,912
1308	PHOP PHRA	Maize	12,600 (37.7)	Veg. & Fruits	11,595 (34.7)	Rice	6,391 (19.1)	2,834 (8.5)	33,420
1401	M. SUKHOTHAI	Rice	52,851 (90.1)				The state of the s	5,809 (9.9)	58,660
1402	SI SATCHANALAI	Rice	55,313 (39.6)	Sugar Cane	43,666 (31.3)	Beans	36,011 (25.8)	4,714 (3.3)	139,704
1403	THUNG SALIAM	Veg. & Fruits		Beans	11,460 (20.1)	Cotton	8,000 (14.1)	7,070 (12.4)	56,880
1404	SWANKHALOK	Rice	51,822 (48.2)	Sugar Cane	26,982 (25.1)	Beans	22,252 (20.7)	6,570 (6.0)	107,626
1405	SI SAMRONG	Sugar Cane	28,313 (36.3)	Beans	23,348 (29.9)	Rice	20,324 (26.0)	6,089 (7.8)	78,074
1406	KONG KRAILAT	Rice	59,167 (89.4)	************ -				6,984 (10.6)	66,151
1407	KHIRI MAT	Rice	17,520 (50.1)	Sugar Cane	8,531 (24.4)	Beans	7,035 (20.1)	1,883 (5.4)	34,977
1408	BAN DAN LAN HOI	Rice	13,700 (55.1)	Sugar Cane	5,506 (22.2)	Beans	4,542 (18.3)	1,108 (4.4)	24,856
1409	SI NAKHON	Rice	11,417 (60.6)	Sugar Cane	3,652 (19.4)	Beans	3,012 (16.0)	746 (4.0)	18,827
	M. KAMPHAENG PHET	Sugar Cane	418,800 (54.3)	Rice	117,238 (15.2)	Cassava	44,125 (5.7)	191,674 (24.8)	771,837
1502	PHRAN KRATAI	Sugar Cane	65,280 (43.1)	Rice	53,336 (35.2)	Beans	6,556 (4.3)	26,165 (17.4)	151,337
1503	KHLONG KHLUNG	Sugar Cane	243,756 (44.0)	Rice	193,940 (35.0)	Maize	13,934 (2.5)	102,280 (18.5)	553,910
1504	KHANU WORALAKSABURI	Sugar Cane	228,000 (50.4)	Rice	95,242 (21.1)	Maize	14,771 (3.3)	114,295 (25.2)	452,308
1505		Sugar Cane	120,000 (52.6)	Rice	56,054 (24.5)	Maize	10,476 (4.6)	41,707 (18.3)	228,237
1506		Maize	19,716 (25.3)	Sugar Cane	19,020 (24.4)	Rice	15,536 (19.9)	23,617 (30.4)	77,889
	LAN KRABU	Sugar Cane	81,312 (47.5)	Rice	48,455 (28.3)	Maize	8,195 (4.8)	33,151 (19.4)	171,113
	M. UTHAI THANI	Rice	29,261 (91.2)	· · · · · · · · · · ·				2,824 (8.8)	32,085
1602	SAWANG AROM	Rice	47,382 (67.3)	Sugar Cane	13,400 (19.0)	: .	•	9,640 (13.7)	70,422
1603		Rice	55,002 (91.7)					4,978 (8.3)	59,980
1.604	NONG KHAYANG	Rice	36,919 (96.2)			· · · · · · · · · · · · · · · · · · ·		1,458 (3.8)	38,377
1605	NONG CHANG	Rice	56,364 (62.0)	Sugar Cane	25,600 (28.2)			8,915 (9.8)	90,879
1606		Cassava	165,900 (51.0)	Maize	61,350 (18.9)	Sugar Cane	36,320 (11.2)	61,893 (18.9)	325,463
1607	F BANKE CHEE ENTER HER TO SELECT SECURE ENTER ENTER AND	Maize	35,373 (35.9)	Rice	28,801 (29.2)	Sugar Cane	23,900 (24.2)	10,577 (10.7)	98,651
	M. PHETCHABUN	Rice	54,759 (40.2)	Maize	53,661 (39.4)	Veg. & Fruits	20,906 (15.4)	6,779 (5.0)	136,105
1702		Maize	55,975 (72.6)	Rice	12,694 (16.5)	a		8,451 (11.0)	77,120
	LOM SAK	Rice	68,362 (40.6)	Maize	43,735 (25.9)	Tobacco	27,083 (16.1)	29,364 (17.4)	168,544
1.704	NONG PHAI	Maize	132,567 (67.0) 4	Rice	37,602 (19.0)	Veg. & Fruits	12,748 (6.4)	14,951 (7.6)	197,868

Appendix 2-3 CROP PRODUCTION OF AMPHOE IN THE MORTHERN REGION (Continued)

Unit : ton
() : Percentage

	Amphoe			Top Th	ree of Crop Production			Other Crops	Total
	wiiptioe		No. 1		No. 2	No	o. 3		The state of the s
3.705 1706 1707 1708 1709	WICHIAN BURI CHON DAEN SI THEP BUNG SAM PHAN NAM NAO	Maize Rice Maize Maize Rice	119,967 (54.6) 60,861 (66.9) 26,475 (40.6) 104,421 (65.5) 14,366 (89.1)	Rice Maize Rice Rice	39,751 (18.1) 22,119 (24.3) 21,060 (32.3) 47,335 (29.7)	Beans Beans	33,691 (15.3) 9,740 (14.9)	26,495 (12.0) 7,990 (8.8) 7,959 (12.2) 7,582 (4.8) 1,755 (10.9)	219,904 90,970 65,234 159,338 16,121

Note : Date : 1978/79

Rice : paddy (unhusked rice) Tobacco: tobacco leaves (wet)

Beans : mungbeans, soybeans and other beans

Appendix 2-4 LENGTH OF ROUTE BY CHANGWAT IN THE NORTHERN REGION

NAKHON SAWAN

Route	Rout	е		Length	(Km)	Remarks $\frac{1}{}$	Route	Rot	ite		Length	(Km)	
No.	Origin	Destination	Paved	Un- Paved	Total	Remarks -	No.	Origin	Destination	Paved	Un- Paved	Total	Remarks 1/
(DOH Ro		**************************************									zaved		to a second seco
1-1	B.C. Chainat	B.C. Chainat	46.19		46.19		3006	J.R. 1	A. Ta Khli	0.17		0.17	•
1-2	B.C. Uthai Thani	B.C. Kamphaeng Phet		٠	79.40		3008	J.R. 1	Meon Makok	4.74		4.74	
1-3	Bypass (Phayuha K		4.30		4.30		3013	A. Lat Yao	B.C. Uthai Thani		20.42	20.42	**
1-4	Bypass (9 Km from		2.65		2.65		3196	J.R. 1	B.C. Lop Buri		35.00	35.00	
1~5	Bypass (6 Km from		1.24		1.24		321.2	B. Nong Pho	B.C. Chainat		10.00	10.00	
1-6		Nakhon Sawan)	3.60	•	3.60		3220	J.R. 3319	B.C. Uthai Thani		5.94	5.94	
1-7	Bypass (Nakhon Sa	wan)	1.90		1.90		3311	J.R. 1	B. Khao Thong	3.00*	2.61*	5.61	
*	J.R. 1	B.C. Phichit	(69.94)		(69.94)	Under	3319	A. Khok Phra	B.C. Uthai Thani		14.00	14.00	**
						Construction	3327	Moen Makok	R. 3004		26.72	26.72	
333	J.R. 1	B.C. Uthai Thani	6.00		6.00		3328	J.R. 3327	B. Hua Ngiew		5.06	5.06	
1072	J.R. 1	B. Khao Chon Kan	35.50*	30.47*	65.97		3329	J.R. 1	J.R. 1145		38.80	38.80	
1073	J.R. 1	B.C. Phichit	11.89	22.70	34.59		3330	J.R. 1	B. Nong Phai		27.52	27.52	PWD Rd.(B. Nong
1118	Nakhon Sawan	B.C. Phichit	5.00*	44.33*	49.33	* *		•					Phai-A.Phai Sali
1119-1	A. Chumsaeng	A. Nong Bua		32.00	32.00	**	3331	J.R. 1	B. Phikun		9.86	9.86	
1119-2	A. Nong Bua	A. Tha Tako	9.87	29.73	39.60		3332	J.R. 3331	R. 1145		7.88	7.88	
1139	B.C. Uthai Thani	B.C. Kamphaeng Phet		40.00*	40.00		9035	J.R. 1	A. Lat Yao		22.50	22.50	**
1142	Nakhon Sawan	B.C. Kamphaeng Phet	(40.72)		(40.72)	Under	9124	B. Phanom Rok	B. Khok Khwai Yai		15.76	15.76	**
4						Construction			Sub-Total	415.50	578.63	994.13	
1145	A. Tha Tako	J.R. 1		27.90	27.90			2.4					
1182	J.R. 1	R. 1073	10.00*	24.12	34.12	**	(ARD]	Road) 2/					
1197	J.R. 3013	B. Taling Sung		25.00	25.00	**	27	Railway Sta.	B. Khao Phanom Rok		27.00*	27.00	A.Chumsaeng,
1198	A. Lat Yao	Wang Pa Yai		25.00	25.00			•					Tha Tako Under
3001	Khai Tahan	Nakhon Sawan Sta.	6.29		6.29								Const.1980/81
3002	Nakhon Sawan	Tha Ta Kui	4.20		4.20				Sub-Total	-	27.00	27.00	
3003	J.R. 1	Chao Phraya Rv.		1.29	1.29	·					 		
3004-1	Nakhon Sawan Sta.	A. Tha Tako	41.35	* *	41.35	e de la companya de	(PWD	Road)					
3004-2	Tha Tako	A. Phaisali	10.00*	10.01	20.01		1	Takhli - Chong Kh	ae – Jan Saen		13.00	13.00	A. Takhli
3004-3	A. Phaisali	B.C. Phetchabun	3.00*	24.01	27.01	**	2	Phai Sali - Nong	Phai - B. Takhlo		20.83	20.83	A. Phaisali
3005	Tha Ta Kui	A. Kork Pha	14.55		14.55		. 3	Lat Yao	Nong Sang		15.00	15.00	A. Lat Yao
							4	Kra Don Phrong	Nong Tha Bian			14.90	A. Lat Yao
			<u> </u>						Sub-Total			63.73	· - constant on the New York
		being upgraded or pr							Total				

^{2/} ARD Standard Road only. ARD Village Access Type I and Type II are not included.

Figures with \star mark are estimated length.

Appendix 2-4 LENGTH OF ROUTE BY CHANGWAT IN THE NORTHERN REGION (Continued)

PHICHIT

Route	Route			Length	(Km)	Remarks 1/
No.	Origin	Destination	Paved	Un- Paved	Total	Renarks -
DOH RO	ead)					
11-1	B.C. Nakhon Sawan	B. Khao Sai Inter.	(21.76)		(21.76)	Under
			•	,		Construction
11-2	B. Khao Sai Inter.	B.C. Phitsanulok	45.14		45.14	
.11	J.R. 11	Nan Rv. Br.	16.53	٠.	16.53	
.13	B.C. Phetchabun	A. Taphan Hin	24.01		24.01	
.15	B.C. Kamphaeng Phet	Nan Rv. Br.	37.85		37.85	·
L062	J.R. 111	Phichit R.S.	1.50		1.50	
1067	Nan Rv.	Yom Rv.	16.34		16.34	
1068	J.R. 115	B. Wang Chik	15.73		15.73	
1069	A. Bang Mun Nak	B.C. Phetchabun		38.86	38.86	**
1070	A. Taphan Hin	Km 1+253	1.25		1.25	
L071	A. Taphan Hin	Km 1+690		1.69	1.69	-
1073	B.C. Nakhon Sawan	A. Pho Thale		24.75	24.75	
L115	J.R. 11	B.C. Phitsanulok		11.78	11.78	**
1118	Phichit	B.C. Nakhon Sawan	54.83		54.83	**
1142	B.C. Nakhon Sawan	B.C. Phitsanulok	(60.76)		(60.76)	Under
						Construction
L191	J.R. 11	B.C. Phetchabun		7.45	7.45	
L221	J.R. 111	R. 1114	6.00	4.00*	10.00	
045	J.R. 1068	Pho Prathap Chang	•	7.00	7.00	
208	J.R. 1118	A. Pho Prathap Cha	ng	14.00	14.00	
		Sub-Total	301.70	109.53	411.23	
(ARD Ro	ead)					
1.3	B. Wang Kadon	B. Wang Samrong		6.10*	6.10	A. Muang,
	2	D. Mariy Data Ong		0.10	0.10	Taphan Hin
		Sub-Total		6.10	6.10	rapitan nin
		Dan Ly dan		0.10	0.10	
			*			
(PWD) I	* •					
L	Taphan Hin	Bang Mun Nak		10.10	10.10	A. Taphan Hin
2	Wang Chik	Pho Prathap Chang		10.58	10.58	A. Pho
				· · · · · · · · · · · · · · · · · · ·		Prathap Chang
3	Taphan Hin	Wang Sam Rong		11.00	11.08	A. Taphan Hin

Route	Ro	ute		Length	(Km)	1/
No.	Origin	Destination	Paved	Un- Paved	Total	Remarks —
4	Wang Sam Rong	Thap Pru	4	6,40	6.40	
5	Thap Pru	Wat Khwang		6.50	6.50	A. Pho Thale
6	Tha Bua	Wat Khwang		14.00	14.00	A. Pho Thale
7	Hua Don	Yang Sam Ton	*	9.00	9.00	A. Muang
		Sub-total	-	67.66	67.66	
		Total	301.70	183.29	484,99	

Appendix 2-4 LENGTH OF ROUTE BY CHANGWAT IN THE NORTHERN REGION (Continued)

		PHIT	SANULOK	<i>3</i> .										and the state of t
Route	Rou	te		Length	(Km)	· .	./	Route	Route		4	Length (Kr	1)	Remarks 1/
No.	Origin	Destination	Paved	Un- Paved	Total	Remarks -	-	No.	Origin	Destination	Paved	Un- Paved	Cotal	
(DOH Ro	pad)		Carlotte Control of the Control of t					(ARD	Road)					
11-1	B.C. Phichit	J.R. 12	34.90		34.90			1	B. Tin Tok	B. Na Muang		9.00	9.00	A. Nakhon
11-2	A. Wat Bot	B.C. Uttaradit	(28.00)		(28.00)	Under Construction	on	2	B. Sam Lu	B. Kaeng Lat		10.00	10.00	Thai A. Nakhon
12	B.C. Sukhothai	B.C. Phetchabun	114.47		114.47	-				•				Thai
1057	F.C. Sukhothai	A. Phrom Phiram		17.32	17.32	**		3 .	B. Dong Phuang	B. Chomphu		32.00	32.00	A. Wang
1058	J.R. 1063	R. 1065	2.18		2.18		**		•					Thong
1059	J.R. 1060	Civil Avi. Sta.	1.66		1.66			4	B. Sam Rang	Noen Maprang		13.00	13.00	A. Wang
1060	Phitsanulok	R. 1061	1.00	•	1.00									Thong
1061	Phitsanulok	R. 12	3.00		3.00		* .	14	B. Nong Tom	B. Pa Daeng	٠	15.90	15.90	A. Phrom
1063	Phitsanulok	A. Bang Krathum	5.00*	30.03*	35.03	**								Phiram
1064	Phitsanulok	B. Bung Phra	6.14		6.14			1.8	B. Teng Nam	B. Krabang		15.90	15.90	A. Muang,
1065	J.R. 12	B.C. Kamphaeng Pl	net 18.08	30.86	48.94	**			the second second			•	•	Wat Bot
1086	Phitsanulok	A. Wat Bot	26.78		26.78			19	B. Wat Tarn	B. Phai Kho Nam			15.00	A. Muang
1104	Phitsanulok	B.C. Uttaradit		27.00*	27.00	**		21	B. Sai Yoi	B. Mung		18.00*	18.00	A. Wang
1114	J.R. 11	A. Bang Krathum		19.00	19.00									Thong
1115	B.C. Phichit	B. Mung		11.28	11.28									Under
1121	J.R. 12	A. Wat Bot	2.00*	19.24*	21.24				·		÷			Construction
1142	B.C. Phichit	R. 1065	(25.06)	.*	(25.06)	Under			. 4 · · · · · · ·	Sub-total	w-	128.80	128.80	<u>~</u>
				•	•	Construction	on :	•		Total.	391.52	401.95	793.27	anora.
1143	A. Nakhon Thai	B.C. Uttaradit	55.00*	14.00*	69.00			an Balanti annaga arang ang ang ang ang ang ang ang ang ang	er en en anteren amerikan eta erren en e		,		·	
1161	J.R. 12	Phitsanulok Rad.	Sta. 2.31		2,31			•						
1220	J.R. 1221	B. Na Kham		15.00*	15.00			•			4.			
1221	B.C. Phichit	R. 1114		3.83*	3.83				•					
2013-1	J.R. 12	B.C. Loei	65.74		65.74	•								
2013-2	Bypass (A. Nakhon	Thai)	-	9.80	9.80		•							

8.00

21.00

19.30

27.49

391.32

273.15 664.47

8.00

21.00

19.30

27.49

9034

9112

9113

9117

A. Bang Ra Kam

A. Chat Tra Kan

A. Nakhon Thai

J.R. 1065

Prak Raet

B. Bo Phak

B. Tin Tok

B.C.Sukhothai

Sub-Total

LENGTH OF ROUTE BY CHANGWAT IN THE NORTHERN REGION (Continued)

HTTARADIT

		UTTAF	RADIT										
loute	Route			Length ((Km)	1/	Route	Route			Length (Km)	. 1/
No.	Origin	Destination	Paved	Un- Paved	Total	Remarks $\frac{1}{}$	No.	Origin	Destination	Paved	Un- Paved	Total	Remarks 1/
(DOH Ro	oad)						1244	B. Nam Pae	B. Nam Auang	7.	10.85	10.85	
11	B.C. Phitsanulok	B.C. Phrae	(85.29)		(85.29)	Under	9054	A. Si Nakhon	B. Dara		10.30	10.30	
						Construction	9107	B. Pang Hai	B. Muang Ched Ton		13.00	13.00	
102	Uttaradit	B.C. Sukhothai	19.78		19.78	. •			Sub-Total	319.20	676.89		
1022	B.C. Phrae	Nan River		64.82	64.82	•							
1040	Uttaradit	B. Wang Ka Phi	8.35		8.35		• a. de						
1,041	J.R. 102	Uttaradit	10.24		10.24		(ARD R						
1043	A. Laplae	Khao Nam Tok	11.40		11.40		1	Nam Man	Nam Li		15.20	15.20	A. Tha Pla
1045-1	Uttaradit	J.R. 1045-2	2.61		2.61		6A	B. Lao	B. Kaeng		10.40	10.40	A. Tron
1045-2	Uttaradit	Sirikit Dam	56.80		56.80	•	7	Phichai - Na Yang	- Phichai		48.15	48.15	A. Phichai
1046	J.R. 102	B. Phai Lom	2.70		2.70		8	B. Pa Khanun	B. Huai Chalong		28.70	28.70	A. Muang,
1047-1	B. Pa Khanun	B. Huai Hut		62.45	62.45	**			•				Tha Pla**
1047-2	B. Huai Hut	A. Fak Tha	59.73	.`	59.73		10	Ban Phae	Na Yang		20.90	20.90	A. Tron, Phicha
1047-3	A. Fak Tha	B. Rai	•	69,62	69.62		11	Laem Khun	Khlong Kuai		22.00	22.00	A. Tron, Phicha
L047-4	B. Rai	KM 15.00		15.00	15.00		1.3	B. Dan	Pang Ton Pueng		14.25	14.25	A. Muang
L047-5	B. Rai	B. Huai Mun	•	2.00	2.00		14	Hua Dong - B. Dan	- Tang Luang		20.12	20.12	A.Muang, Laplac
L083.	B.C. Nan	J.R. 1123		23.20	23.20		1.6	Tau Hi Nua	Wang Phat Rung		15.20	15.20	A. Phichai
1104	B. Wang Ka Phi	A. Phichai	4.60	42.40*	•	**	18.	Wang Som Mo	Wang Phat Rung		20.65	20.65	A. Phichai
1105	J.R. 1045-2	B.C. Phrae		27.80	27.80		19	Tang Luang	Khun Fong		15.20	15.20	A. Muang
1106	B. Wang Sisup	B. Pa Luat	20.00*	7.04*			25	Huai Chalong	Pak Pat		17.78	17.78	A. Tha Pla,
1123	J.R. 1047-3	B. Bobia		31.80	31.80								Nam Pat
1143	B.C. Phitsanulok	B. Na Pa Kai		23.16*			26	DOH R. 1045	Nam Man		11.20*	11.20	A.Muang, Tha Pla
1146	B. Pak Pot	J.R. 1047	10.50	23.10	10.50		27	Hat Kruat	Rai Huai Phi	•	15.25	15.25	A.Muang, Tron
1163	J.R. 1045-2	A. Tha Pla	14.20		14.20	•	28	Wang Daeng	Rai Huai Phi	•	. 13.27	13.27	A. Tron
1166	J.R. 1104	B. Dara	14.20	18.40	18.40		29	B. Mo	Khlong Ka Phua		7.67	7.67	A. Phichai
1176	B. Suan	J.R. 1047-2		12,39	12.39		30	Phai Lom	Dong Sa Kaeo		5.00	5.00	A. Laplae
.180	B.C. Sukhothai	B. Plai Rang				**	31	Huai Chalong	Huai Pla Duk		11.05	-	A. Muang, Tron
1196	J.R. 1104	J.R. 102	•	10.54					Sub-Total			311.99	23
204	B. Pa Khanun	* - 4	4 50	26.00		**			Total	319.20		1308.08	
.212		A. Phichai	4.50	44.70			·········		1000		300.00	1300.00	
	B. Huai Dua	B. Fia			23.50	·.							
L213	B. Pa Khanun	B. Wang Khon	8.50	5.50							5 .		
L214	J.R. 1204	J.R. 1047		50.60	50.60	**							
1224	A. Phichai	B.C. Sukhothai		10.00*	10.00								

15.00 15.00

46.12 46.12

B. Wang Pha Chan

A. Nam Pat

B. Phia

B. Bang Daeng

1238

1239

Appendix 2-4 LENGTH OF ROUTE BY CHANGWAT IN THE NORTHERN REGION (Continued)

PHRAE

LAMPANG

Route No.	Rout	Length (Km)			. 1/	Route	Route		Length (Km)			1/	
	Origin	Destination	Paved	Un- Paved	Total	Remarks 1/	No.	Origin	Destination	Paved	Un- Paved	Total	Remarks 1/
11-1	B.C. Uttaradit	A. Den Chai	(15.00)	· ·	(15.00)	Under	1-1	B.C. Tak	B.C. Phayao	238.13		238,13	
					•	Construction	1-2	Bypass (A. Thoen)	(1)	4.95		4.95	·
11-2	A. Den Chai	B. C. Lampang	(40.00)	*	(40.00)	Under	1-3	Bypass (A. Thoen)		2.18		2.18	
				•		Construction	1-4	Bypass (A. Ko Kha)	(1)	17.55		17.55	
101-1	B.C. Sukhothai	B.C. Nan	116.02		116.02		1-5	Bypass (A, Ko Kha)	(2)	2.11		2.11	
101-2	J.R. 101	Den Chai Sta.	6.82		6.82		I6	Bypass (Lampang)	•	3.90	•	3.90	
101-3	Bypass (Phrae)		9.53		9.53		1-7	Chatchai Road		0.68		0.68	
103	J.R. 101	B.C. Lampang	41.35		41.35		1-8	Bypass (A. Ngao)		2.53		2.53	
1022	Phrae Inter.	B.C. Uttaradit	8.60	25.4	34.00		1-9	Bypass (10 km from	Ngao)	0.70		0.70	
1023	Phrae	A. Wang Chin	9.05	65.5	74.62	**	11-1	B.C. Phrae	Lampang	(33.30)*		(33.30)	Under
1024	J.R. 1101	B. Pu Toek Luang	2.00	28.3	30.30								Construction
1027	B. Pin R. Sta.	B. Pin J.	1.00		1.00		11-2	Lampang	B.C. Lamphun	37.30		37.30	
1100	J.R. 1023	B.C. Lampang		6.0	6.05		103	B.C. Phrae	R. 1	23.00		23.00	
1101	J.R. 101	J.R. 1022	10.75		10.75		106	J.R. 1	B.C. Lamphun	32.00		32.00	
1105	B.C. Uttaradit	R. 101		18.9	18.90		1034	J.R. 1	R. 11	14.68	1.00	15.68	
1120	J.R. 1154	B.C. Phayao	15.80	22.7	38.50	**	1035-	l Lampang	R. 1019	50.88	68.95	119.83	**
1124	A. Wang Chin	B.C. Lampang	3.28	31.1	7 34.45		1035-	2 Bypass (A. Chae Hom	1)	2.00*	3.58	5.58	**
1125	J.R. 1177	A. Wang Chin	3.35	29.1	32.48		1035-	3 J.R. 1035	A. Wang Nua		0.61	0.61	
1134	J.R. 101	B. Rong Khem	8.89	13.5	3 22.42		1036	J.R. 1	Mae Tha Sta.	9.35	7,65	17.00	* *
1154	J.R. 103	B.C. Lampang	14.46	13.7	28,16		1037	J.R. 1	R. 1036	16.68		16.68	
1203	Yom River	A. Song		44.0	44.00		1038	Lampang	Air Port	0.92		0.92	
1216	J.R. 101	B.C. Nan		14.6	14.60		1039	Lampang	R. 11	15.47		15.47	
1217	J.R. 1216	R. 1218	5.00*	40.0	0* 45.00	**	1048	B.C. Sukhothai	R. 1	•	49.60*	49.60	
1218	J.R. 1134	Phra That Puchae		4.0	4.00		1100	B.C. Phrae	R. 1036	1.4	24.55	25.95	
		Sub Total	310.90	357.0	667.95		1102	J.R. 1	A. Thoen	10.00*	17.74*	27.74	**
(ARD R	oad)						1124	B.C. Phrae	A. Thoen		18.05	18.05	
1	B. Wang Boe	B. Wang Liang		11.00	11.00	A. Wang Chin	1154	B.C. Phrae	R. 1		31.97	31.97	
3	B. Thung Laeng	B. Tha Dua		8.50	8.50	A. Rong Kwang	1157	J.R. 1039	H. Huai Peng	4.40	21.60	26.00	**
8	B. Thin	B. Nam Cham		9.00	9.00	A. Muang	9030	J.R. 1102	B. Ko Thung		45.00	45.00	
9	B. Mae Yang Kat	DOH R. 1203		22.90	22.90	A. Song, Rong			Sub-Total	524.11	290.30	814.41	
11	B. Nam Rin	B. Pong		15.0	* 15.00	A. Long Kwang	-					mark	
15	DOH R. 1203	DOH R. 103		11.9	3 11.93	A. Song							

78.33 78.33

435.38 746.28

310.90

Sub-Total

Total

Appendix 2-4 LENGTH OF ROUTE BY CHANGWAT IN THE NORTHERN REGION (Continued)

		LAMPANG (C	Continued))					MAM				
Route	Rout	:e		Length	(Km)	1/	Route	Rout	e		Length (Km)	· · ·
No.	Origin	Destination	Paved	Un- Paved	Total	- Remarks 1/	No.	Origin	Destination	Paved	Un-	Tobal.	Remarks $\frac{1}{}$
(ARD I	Road)					The second secon	(DOH F	/hea		ravea	Paved	Total	<u> </u>
1.	B. Na Koeio	B. Nong	6,00	27.50	33.50	A. Ko Kha, Soem	101	B.C. Phrae	Man				
			•			Ngam	101	J.R. 101	Nan	55.16		55.16	
1.A	B. Na Bon	B. Thung Phai		11.51	11.51	A. Soem Ngam	1025	J.R. 101	Phra That Khao Noi	2.20		2.20	
lB	B. Don Kaew	B. Laoyao		10.79	10.79	A. Soem Ngam			A. Na Noi	35.00	•	35.00	
2	B. Wang Nue	B. Mae Kut		16.65	16.65	A. Wang Nua	1080-1	Burner Committee Com	Chiang Ngoen	104.00		144.00	
4	B. Tha Khow	San Ma Ki		20.30	20.30	Under Construction		B. Pha Khwang	A. Tha Wang Pha	3.00*	12.00*	15.00	
•	14.		•			A. Muang	1080-3	B. Pong Sanuk	B. Sied	•	11.00	11.00	
7	B. Ko Kha	B. Na Pong Hou		18.61	18.61	A. Ko Kha	1081	A. Pua	J.R. 1080	50.00	80.00	130.00	
8	B. Thung Keulen	B. Thung Luang	•	24.61	24.61	A. Hang Chat	1082	A. Tha Wang Pha	B. Na Nun		3.50	3.50	
15	B. Mae Kud	Nam Tok Wang		6.63	6.63	A. Wang Nua	1083	J.R. 1026	B.C. Uttaradit	1	45.00	45.00	
25	B. Huai Rai	B. Hok		12.00	12.00	A. Muang, Hang Chat	1091	Nan	B.C. Phayao	60.00		60.00	
26	B. Hok	B. Thung Kham		22.00	22.00	A. Ko Kha, Hang Chat	1097	J.R. 1080	J.R. 1148	10.00*	13.00*	23.00	e e e e e e e e e e e e e e e e e e e
27	B. Pang Phae Tai	B. Huai		8.12	8.12	•	1131	J.R. 1080	Chiang Hon		18.00	18.00	
28	B. Hua Sua	Mae Mor Station		31.00	31.00	A. Hang Chat A. Mae Tha	1137	J.R. 1080	Chiang Lom		20.00	20.00	
29	B. San Kamphaeng	B. Thung Phai		21.00	21.00		1138	J.R. 1081	Namtan Border		30.00	30.00	e de la companya de La companya de la co
1 2				21.00	21.00	A. Hang Chat,	1148	J.R. 1080	B.C. Phayao	32.00	13.50	45.50	•
30	B. Thung Kham	Doi Mon Kai Jae		14.00	14.00	Soem Ngam	1153	J.R. 1080	J.R. 1080	14.50		14.50	•
31	B. Lao	B. Nakhot Luang		17.00	17.00	A. Ko Kha	1162	J.R. 1026	B. Nam Muap	10.00*	16.34*	26.34	
32	B. Nakhot Luang	B. Hua Sua		*		A. Ko Kha, Mae Tha	1168	Nan	B. Nam Pun	64.65		64.65	•
34	B. Na Phai	B. Nong Hoi	•	27.00	27.00	A. Mae Tha	1169	J.R. 1168	R. 1081	41.00	•	41.00	
38	B. Sop Tham	B. Nam Long		19.00	19.00	A. Soem Ngam	1170	J.R. 1080	R. 1081	10.00*	4.00*	14.00	
	F	D. Wall Long		11.00	11.00	A. Sop Prap	1172	J.R. 1091	B. Pi Nua		6.50	6.50	
		Sub-Total	C 00	210.50		Under Construction	1216	B.C. Phrae	A. Na Noi		12.40	12.40	•
				318.72			1225	J.R. 1169	R. 1168	27.00		27.00	
		Total	530.11	609.02	1139.13	•	9061	Na Noi	Na Muen		20.00		
									Sub-Total	518.51	345.24		
				٠									
		•											
							(ARD R				1 2		
							5	Na Noi	Na Tan		25.00	25.00	A. Na Noi
							8	A. Muang	Wang Muang	7.60	27.40	35.00	A. Muang, S.
٠							9	B. Mo Thien	B. Na Pau		34.00	34.00	A. Muang, S
*.				: :			11	Hang Wau	Phu Thieng	ä	9.58	9.58	A. Sa
							12	B. Mo Muang	DOH R. 1168		25.00*	25.00	A. Sa, Mae
							-						Charim

Appendix 2-4 LENGTH OF ROUTE BY CHANGWAT IN THE NORTHERN REGION (Continued)

NAN (Continued)

PHAYAO

Route	Rout	<u>.</u>		Length	Km)	1/	Route	Route			Length	(Km)	3 /
No.	Origin	Destination	Paved	Un- Paved	Total.	Remarks 1/	No.	Origin	Destination	Paved	Un- Paved	Total	Remarks 1/
							(DOH I	Road)				-	· · · · · · · · · · · · · · · · · · ·
15	B. Huai Li	Thang Luang		17.43	17.43	A. Sa	1-1	B.C. Lampang	B.C. Chiang Rai	56.34		56.34	
16A	Nong Ha	Nam Hin		16.85	16.85	A. Na Noi	1-2	Bypass (5 km from Hu	ıai Mae Pol)	0.45		0.45	
16B	B. Rai	Na Noi	·	6.40	6.40	A. Na Noi	1-3	Bypass (Phayao)		5.95		5.95	
20	Fang Hin	B. Luang		54.00	54.00	A. Sa (Under	1-4	Bypass (A. Mae Chai)) (I)	3.25		3.25	
			•			Construction)	1-5	Bypass (A. Mae Chai)	(2)	0.38		0.38	
26	B. Lai Nan	B. Na Lueng	Ş.	20.85	20.85	A. Sa	1021	J.R. 1	B.C. Chiang Rai	87.40		87.40	
						* * * * * * * * * * * * * * * * * * *	1091-1	J.R. 1021	B.C. Nan	77.82		77.82	
36	B. Fang	B. Huai Li		11.25	11.25	A. Mueng	1091-2	Bypass (B. Pong)		6.91	• .	6.91	,
37	B. Nong Tau	B. Kot		14.00	14.00	A. Mueng	1092	J.R. 1091	R. 1148	•	33.35	33.35	
38	B. Do Tai	B. Tapi		14.88	14.88	A. Mueng	1093	J.R. 1021	B. Thung Kluai		8.30	8.30	
39	No. 8	B. Huai Kom		17.50	17.50	A. Sa, Mae Charim	1120		A. Chiang Muan		6.95	6.95	**
						Under	1126	•	B. Huai Ngiu	3.38	14.90	18.28	**
		Sub-Total	7.60	294.14	301.74	Construction	1127	A. Wang Nua	R. 1193		34.00	34.00	
		Total	526.11	639.38	1165.49		1148	A. Chiang Kham	B.C. Nan	56.70		56.70	
	<u> </u>						1160	J.R. 1148	B. Nam Lao		5.37	5.37	
						•	1179	J.R. 1148	R. 1092		30.66	30.66	
			·				1186	J.R. 1021	R. 1179	6.56		6.56	
							1188		B. Nam Puk	10.00	14,50	24.50	
					-		1193	B. Mae Tam	A. Mae Chai	10.00*	22.60*	32.60	**
							1202	J.R. 1	B.C. Chiang Rai		23.30	23.30	**
		e e			."		1210	A. Chiang Kham	B. Thung Kluai	10.00*	4.49*	14.49	
							1228	J.R. 1188	B. Pha Tang		6.00	6.00	
							9055	B. Tha Rua	Nam Tok Cham Pa Th	ong	16.00	16.00	
				•			9056	A.R.D. Road	Chiang Muan		24.00	24.00	**
•									Sub-Total	335.14	244.42	579.56	
							•						
							(ARD I	Road)			• .		
	4						2	DOH R. 1093	B. Moeng Chup		18.63	18.63	A. Chieng Kham
•					1		7	B. Bua Sathan	B. Sichomchaeng		30.98	30.98	** A. Chun
ŧ							19	A. Dok Khum Tai	B. Khiu ,		16.00		** A. Dok Khum
													Tai
•					a ,				Sub-Total	****	65.61	65.61	* (1.3.
									Total	335 14	310.03		

Appendix 2-4 LENGTH OF ROUTE BY CHANGWAT IN THE NORTHERN REGION (Continued)

CHIANG RAI

oute	:	Route	•	L	ength (Km)	. 1/
No.		Origin	Destination	Paved	Un- Paved T	otal	Remarks —
(DOH R	Road)				-	na ang ang ang ang ang ang ang ang ang a
1	-1	B.C. Phayao	Chiang Rai	57.63	3	57.63	
1	L-2	Bypass (60 Km fro	m Chiang Rai)	3.58	3 .	3.58	
1	1-3	San Sai Road		1.20)	1.20	
1	L-4	Bypass (Chiang Ra	i)	3.93	3	3.93	
1	109	J.R. 1	B. Chao Khao Mu	Soe 27.50	22.51	50.01	
]	110	Phokhun Mengrai	Mae Sai Br.	61.84	1	61.84	
]	1016	J.R. 110	A. Chiang Saen	31.69	e	31.69	
	1017	J.R. 1	B. Den Ha	2.30	o .	2.30	
·J	1019	A. Mae Suai	B.C. Chiang Mai	75.10	5 .	75.16	
]	1020	J.R. 1	A. Chiang Khong	139.50	0	139.50	
. 1	1021	B.C. Phayao	A. Thoeng	12.6	9	12.69	·
]	1098	J.R. 1016	J.R. 1174		56.00	56.00	**
	1126	J.R. 1	B.C. Phayao		11:73	11.73	**
1	1128	J.R. 1020	R. 1126	9.1	7	9.17	
	1129	A. Chiang Khong	A. Chiang Saen	5.00	0* 48.10°	* 53.10	
-	1130	J.R. 110	B. Huai Hin Fon	10,00	0* 20.00°	30.00	
	1149	J.R. 110	Pratat Doi Thun	ıg 13.00	O* 4.43°	17.43	
]	1150	B.C. Chiang Mai	R. 1019		33.36	33.36	
1	1151	J.R. 110	Nam Tok Pong Pr	abat 4.00	0* 4.00°	8.00	
-	1152	J.R. 1020	B. San Salik		40.34	40.34	**
]	1155	J.R. 1020	J.R. 1020	76.30	21.70	98.00	
]	1173	J.R. 1152	R. 1098	15.00	0* 35.00°	50.00	**
1	1174	J.R. 1020	J.R. 1020	3.20	0* 44.40°	47.60	
	1181	J.R. 1190	J. 1126	5.00)* 9.37 ³	14.37	
-	1190	J.R. 1020	J.R. 1126	12.00)* 11.18°	23.18	
-	1202	B.C. Phayao	R. 1126		22.20	22.20	* *
*. •	1207	J.R. 110	B. Huai Khom		13.40	13.40	
	1208	J.R. 1	Nam Tok Khun Ko	orn	20.00	20.00	**
	1209	J.R. 110	B. Tha Khao Plu	ıak	31.00	31.00	* *
	1211	B. Den Ha	R. 109		30.80	30.80	**
	1222	J.R. 1021	R. 1155		6.20	6.20	
- - -	1232	Khun Mengrai M.	R. 1173	:	12.60	12.60	
	1233	J.R. 1	R. 1173	6.40		6.40	

Route	Rout	e		Length	(Km)	1./
No.	Origin	Destination	Paved	Un- Paved	Total	Remarks $\frac{1}{2}$
1234	J.R. 1130	Doi Mae Salong		30.00	30.00	· · · · · · · · · · · · · · · · · · ·
9059	A. Phan	B. Pang Ko Sai	:	17.00	17.00	
·		Sub Total	576.09	545.34	1121.41	
(ARD	Road)					
5	A. Mae Sai	B. Pang Mo Puang		32.20	32.20	A. Mae Sai
11	B. Sam Ton Mun	B. Mae Tam Noi		43.58	43.58	A. Thoeng
16	B. Nai Wiang	Mae Na		21.00	21.00	A. Chiang Sae
				-		Under
						Construction
27	B. Huai Sak	B. Don		15.58	15.58	A. Muang
. 32	B. Pa Yang	B. Thung Kliang		15.00	15.00	A. Mae Sai
34	B. Samphankit Farm	B. Nong Bua Daeng		21.00	21.00	A. Muang
						Under
						Construction
38	B. Hong He	B. Farm		21.00	21.00	A. Muang
39	B. Tong Khao	B. Nong Sao		16.21	16.21	A. Thoeng
		Sub-Total	· _	185.57	185.57	
		Total	576.09	730.89	1306.98	

Appendix 2-4 LENGTH OF ROUTE BY CHANGWAT IN THE NORTHERN REGION (Continued)

CHIANG MAI

B.C. Lamphun

A. San Kamphaeng

6.68

6.68

	Route			Length	(Km)		Route	Route		<u></u>	Length (Km)	Remarks
Route No.	Origin	Destination	Paved	Un- Paved	Total	Remarks	No.	Origin	Destination	<u>Paved</u>	Un- Paved	<u>Total</u>	
(DOH Re	pad)			All the state of t			1150-1	J.R. 107	B.C. Chiang Rai		50,28*	50.28	**
11	B.C. Lamphun	Chiang Mai	18.63	:	18.63		1150-2	J.R. 1150-1	A. Phrao		1.07	1.07	
106	J. to Lim Ping	Chiang Mai	14.70		14.70		1178	J.R. 107	B. Na Wai		24.10	24.10	**
107	C. Chiang Mai	A. Fang	149.13		149.13		1185	J.R. 1004	R. 1005	1.30		1.30	
108	C. Chiang Mai	B.C. M.H. Son	1.58.60		158.60		1189	B.C. Lamphun	R. 11		3.64	3.64	
109	J.R. 107	B.C. Chiang Rai	4.34	30.66	* 35.00		1192	J.R. 1009	R. 1088	10.00*	10.66*	20.66	
1001	J.R. 1007	A. Phrao	50.00	* 50.76	* 100.76	**	1229	B. Mai	R. 9241	-	11.00	11.00	
1003	J.R. 107	A. Mae Taeng Kao	0.60		0.60		1230	B. Mai	B. Khuan Mae Tha		4.00	4.00	
1004	Chiang Mai	Doi Pui	16.33		16.33		9047	J.R. 107	R. 1001		7.00	7.00	**
1005	Chiang Mai	B. Muang Ha		* 23.05	* 28.05		9050	B. Mai	Huai Kaeo		39.50	39.50	
1006	Chiang Mai	B.C. Lamphun	12.01		12.01		9241	A. Sankamphaeng	On Luai		18.00	18.00	
1007	J.R. 1001	A. Doi Saket	13.55		13.55		9242	Tha Ton	B. Huai Hin Fon		45.00	45.00	
1008	Nong Hoi J.	B. Ko Klang	4.35		4.35		· .		Sub-Total	678.93	754.27	1433.20	
1009-1	·	Doi Inthanon	46.70		46.70								
1009-2	•	R. 1009-1	1.40		1.40		(ARD F	Road)					
1009-3		Nam Tok Mae Klang			1.76		2	A. Sa Moeng	DOH R. 1095		35,00*	35.00	A. Sa Moeng
1010	B. Song Khwae	B. Wiang Nong Ron			4.88		3	B. Muang Ngan	B. Piang Luang		30.00	30.00	A. Chiang Dao
1011	J.R. 1012	A. Hot Kao	0.35		0.35								Under Construction
1012	A. Hot	B. Wang Lung	14.90		14.90		17	B. Mae Jai Tai	B. Huai Phak Phai		30.00	30.00	A. Fang
1013	J.R. 108	B. Mae Win	8.33				20	B. Han Ngum	B. Ton Saan		35.00	35.00	A. Fang
1014	A. Doi Saket	R. 1006	13.95		13.95								
1015	A. San Pa Tong	B.C. Lamphun	8.52		8.52		32	B. Nong Hoi	B. Pong Din		10.25	10.25	A. Doi Saket
1019	B.C. Chiang Rai	A. Doi Saket	43.00		43.00		33	B. Phayat	B. Pa Muet		11.31	11.31	A. San Sai
1047	A. San Kamphaeng	B.C. Lumphun	43.00	6.69			34	B. Mae Ka	B. Nong Hoi		11.85	11.85	A. San Kamphaei
1088	J.R. 108	B. Mae Sa	10.00				35	A. San Kamphaeng	B. Mae Pra Phai		9.45	9.45	A. San Kamphaei
1089	A. Fang	B. Tha Ton	10.00				39	B. Che Chang	B. Rong Kong Khao		8.70	8.70	A. San Kamphae
1095	J.R. 107	B.C. M.H. Son	23.57		23.57		63	A. Mae La Noi	A. Moe Chaem		60.00*	60.00	A. Mae Chaem
1096~1.	•		10.00		* * * * * * * * * * * * * * * * * * *	**				٠			Under Constructi
-	J.R. 1096-1	R. 108	6.20			**			Sub-Total	-	241.56	241.56	•
1099	J.R. 108	Nam Tok Mae Sa	0.80	F	0.80				Total	678.9	995.83	1674.76	
1103-1		B.C. Tak			0* 146.00								***
	*	R. 1012	5,00		3* 57.78	**					•	٠.	
	J.R. 1103	Tha Nam	3.59		3.59								
1141	J.R. 11	Chiang Mai	7.4	1	7.44								

Appendix 2-4 LENGTH OF ROUTE BY CHANGWAT IN THE NORTHERN REGION (Continued)

MAE HONG SON

LAMPHUN

		MAE HONG	SON						LAMPHUN		i Banan		· · · · · · · · · · · · · · · · · · ·
Route	Route			Length	(Km)	•	Route	Route			Length (Km)	71
No.	Origin	Destination	Paved	On- Paved	Total	Remarks	No.	Origin	Destination	Paved	Un- Paved	Total	Remarks
(DOH R	Road)						(DOH R	pad)		**************************************		-	
108	B.C. Chiang Mai				100.00		11	B.C. Lampang	B.C. Chiang Mai	43.73		43.73	
•		Nam Pai Br.	192.00		192.00		106	B.C. Lampang	B.C. Chiang Mai	128.45		128.45	. *
1085	B.C. Tak	A. Mae Sariang		63.00	63.00		114	J.R. 11	Lamphun	5.20	•	5.20	•
1095	Nam Pai Br.	C. Chiang Mai	10.84		145.15	**	116	Bypass (Lamphun)		10.00*	5.00*	15.00	
1194	A. Mae Sariang	B. Mae Sam Laep		52.00	52.00		1010	B. Wiang Nong Rong	B. Muang Ton	14.76		14.76	
1226	J.R. 1095	A. Mae La Na		6.00	6.00		1015	J.R. 106	B.C. Chiang Rai	5.00		5.00	
		Sub-Total	202.84	255.31	458.15		1029	C. Lamphun	R. 114	3.20		3.20	
(ARD R	Road)						1030	J.R. 106	B. Rim Ping	12.52		12.52	
11	B. Kung Mai Sak	B. Huai Khaw		12.79	12.79	A. Muang	1.031	B. Phae	B. Wiang Nong Rong	*	15.30*	18.30	•
12	B. Kung Mai Sak	B. Nai Sai		16.88	16.88	A. Muang	1032	J.R. 106	R. 1156	5,33		5.33	
25	DOH R. 108	DOH R. 1095		8.00	8.00	A. Muang, Under	1033	B. Tha Chak	A. Mae Tha	25.00*	8.56*	33.56	**
						Construction	1087	J.R. 106	B. Ko Thung	2.00*			
		Sub-Total		37.67	37.67		1103	J.R. 106	B.C. Chiang Mai	2.00	10.00*		* *
		Total	202.84	292.98	495.82		1133	J.R. 106	Wat Prapat Takpha	1.12	10100	1.12	•
							1135	J.R. 11	Mae Tha R. Sta.	0.20		0.20	
						,	1136	J.R. 11	R. 106	2.04		2.04	
	•						1147	J.R. 11	A. San Kamphaeng	15.00*	10.00+	•	
					•		1156	J.R. 106	R. 1010		10.00*	25.00	
					*		1184	J.R. 106		25.32	00 00	25.32	·
				•		•	1189		B. Mae Lop		89.00	89.00	
					·. ·		1219	J.R. 11	R. 1147	_ 4 _	7.00*	7.00	
•								J.R. 106	R. 1184	1.10	•	17.70	
		· ·	.4.	£ 2			1227	J.R. 106	R. 106	٠	.20.50	20.50	
	•			1 .			1231	J.R. 106	R. 1033	2.58		2.58	·
							1235	J.R. 1184	B. Mae Bon			12.23	
			÷				(ARD Ro	ad)	Sub-Total	305.55	228.49	534.04	
			1.		*		1	DOH R. 11	B. Nong Kwak		5.00*	5.00	A. Muang
							3.	DOH R. 11	B.C. Chiang Mai		20.00*	20.00	A. Mae Tha
										**			A.R.D. Center
									Sub-Total		25.00	25.00	a a
							(PWD R	oad)				THE STOLL SHOW THE STOLEN OF	
		and the second second					1	Mae Pok	Thung Hua Chang	e.	7.50	7.50	A. Li
							2	Mae Pok	Mae Sam		6.00	6.00	A. Li
					*.				Sub-Total	eus.	13.50	13.50	
									Total	305,55	266,99	572.54	

Remarks

A. Mae Sot

A. Sam Ngao

A. Sam Ngạo

A. Mae Ramat

A. Mae Sot

A. Mae Sot

A. Mae Sot

Under Construction

LENGTH OF ROUTE BY CHANGWAT IN THE NORTHERN REGION (Continued) Appendix 2-4

Route	Route			Length	(Km)		Route	Route			Length ((Km)
No.	Origin	Destination	Paved	Un- Paved	Total	Remarks	No.	Origin	Destination	Paved	Un- Paved	Tota.
(DOH R	pad)						5	B. Mae La Mao	B. Pang Sau Thanor	n Asia	10.33	10.3
1-1	B.C. Kamphaeng Phet	B.C. Lampang	90.54	•	90.54		6	Sanan Bin Khuan	B. Mae Ra Wan		20.60	20,€
1-2	Bypass (B. Wang Cha		2.34		2.34	•	8	DOH R. 1	A. Sam Ngao		14.00*	14.0
1-3	J.R.]	R. 105	3.34		3.34	•						
1-4	Bypass (10 Km from	rak)	5.40		5.40		16	B. Mae Kud Sam Tha	Mae Ramat		3.96	3.9
1-5	Bypass (A. Ban Tak)		5.76		5.76		17	B. Mae Phosa	B. Huai Bong		4.50	4.5
12 .	J.R. 1	B.C. Sukhothai	24.20		24.20		18	B. Mae Tao	B. Mae Ku Mai		15.38	15.3
104	B. Wang Chao	R. 1	26.02		26.02		19	B. Mae Kon Keu	B. Chong Khaep		24.39	24.3
105-1	J.R. 1	A. Mae Sot	85.26		85.26				Sub-Total		122.91	122.9
105-2	A. Mae Sot	Air Port J.	1.20		1.20				<u>Total</u>	445.06	574.43	1019.
1050	J.R. 1	Mae Nam Ping	0.65	ž.	0.65		<u></u>			- -		
1085	A. Mae Sot	B.C. M.H. Son	65.00	101.00	* 166.00						•	
1090	A. Mae Sot	A. Um Pang	82.00	68.00	150.00							
1099	B.C. Chiang Mai	A. Tha Son Yang		32.00	* 32.00							
1107	J.R. 1	Yuttahutthi Chedi	20.00	* 11.64	* 31.64							
1108	B. Na Bot	R. 105	8.00	* 10.72	* 18.72							
1110	J.R. 1	B. Wang Chao	15.00	* 10.97	* 25.97							•
1111	J.R. 12	B. Pong Daeng		17.36	17.36	•						
1132	B.C. Kamphaeng Phet	R. 12		4.21	4.21						•	
1140	J.R. 105	B. Mae Lamao	5.77		5.77							
1159	J.R. 1	B. Tak Sin	4.58		4.58							
1167	J.R. 1090	Burma Border		22.00	22.00							
1175	J.R. 1085	R. 1107		86.00	86,00							
1206	B. Bo O	B. Wa Lae		26.50	26.50							
1215	J.R. 1085	B. Tha Wang Pha		6.65	6.65							
1223	J.R. 1	J. To Phumiphon Da	um.	18.00					· ·		•	
9031	J.R. 1107	R. 1175		13.00						•		
9032	J.R. 1107	B. Tha Pui		23.47					.*			
		Sub-Total	445 06		2 896.58			and the second second				

A. Mae Sot

A. Mae Sot

A. Mae Ramat

7.05

7.60

15.10

7.05

7.60

15.10

Pak Huai Mae Pa

B. Tin That

So 0

(ARD Road)

Mae Pa

B. Thung

B. Chong Khaep

Remarks 1/

/Khiri Mat A. Si Samrong A. Si Satcha-

narai

A. Kong Krailat A. Kong Krailat

LENGTH OF ROUTE BY CHANGWAT IN THE NORTHERN REGION (Continued)

Route	Route			Length	(Km)	Remarks 1/	Route	Rout	ie' i i i i i i i i i i i i i i i i i i		Length	(Km)
No.	Origin	Destination	Paved	Un- Paved	Total	Remarks —	No.	Origin	Destination	Paved	Un- Paved	Total
(DOH Ro	pad)		<u> </u>	· 	-		(PWD R	load)				Tit de militate may my gragary
12	B.C. Tak	B.C. Phitsanulok	89.02		89.02		1	Ban Kong	Tha Cha Nuan		24.70	24.70
101-1	B.C. Kamphaeng Phet	J.R. 12	38.52		38.52		2	Nong Bua	Khiri Mat		8.99	8.99
101-2	Bypass (Sukhothai)		4.51		4.51							
101-3	Khlong Yang	J.R. 12		2.91	2.91		3	Wang Mai Khon	Pak Khwae		35.51	35.51
101-4	Sukhothai	B.C. Phrae	110.54		110.54		4	Nong Or	Sarajit	* * *	7.73	7.73
1048	J.R. 101	B.C. Lampang	18.00*	24.40*								
1053	J.R. 12	B. Lum	4.00		4.00		5	Muang Kao	Huai Yuak		24.45	24.45
1054	J.R. 12	B. Tan Tia	2.80	* **	2.80			•				
1055-1	J.R. 12	B. Kong Krailat	2.95		2.95				Sub-Total			101.38
1055-2	J.R. 1055-1	Yom River	2.23		2.23				Total	308.10	332.09	640.19
1056	J.R. 101	R. 1113	10.00*	12.00*	22.00	**		The second secon	an da kanada yang kanada magaha magaha magan agam agam an manada manada manada manada manada manada manada man Tanada manada manada magaha magaha magan agam agam an manada manada manada manada manada manada manada manada m			
1057	J.R. 12	B.C. Phitsanulok	3.00	7.00	10.00	**						
1113	J.R. 12	B. Chaliang		53.80	53.80							
1158	J.R. 101	B. Kaeng Luang	0.96		0.96							
1177	J.R. 101	B.C. Phrae		35.59	35.59							
1180-1	J.R. 101	B.C. Uttaradit	8.00*	12.00*	20.00	**		y	•		* .	
1180-2	J.R. 1180	A. Si Nakhon	3.00*	8.33*	11.33	**						
1187	J.R. 101	Mae Nam Yom	0.57		0.57			•				
1195	Wat Ko	A. M. Sukhothai		24.00	24.00	**						
1200	Bypass (Sawankhalok)		5.00	5.00							
1201	A. Sawankhalok	A. Si Satchanalai	10.00	•	10.00	**						
1224	B.C. Uttaradit	A. Sawankhalok		15.68*	15.68		•					·
9117	B.C. Phitsanulok	Kong Krailat		10.00*	10.00	**					•	
		Sub-Total	308.10	210.71	518.81		•	·				
						And the second						
(ARD Ro	oad)		*.:									÷
27	DOH R. 101	B. Khlong Dua		20.00*		A. Ban Dan						

A. Ban Dan Lan Hoi Under

Construction

20.00 20.00

Sub-Total

Remarks $\frac{1}{}$

A. Khlong Khlung

A. Khanuworalaksa

A. Muang

Buri

Length (Km)

Total

22.88

40.00

36.00

176.02

957.43

Un-

Paved

22.88

40.00

36.00

176.02

313.52 643.91

Paved

Appendix 2-4 LENGTH OF ROUTE BY CHANGWAT IN THE NORTHERN REGION (Continued)

Route

Destination

Sub-Total

Total

Tha Khui

Tha Khuen

Ko Kaew

Origin

Tha Mai Daeng

Khlong Wilai

B. Bo Tham

KAMPHAENG PHET

		MAMPHALL	G PHET				
Route	Route		**************************************	Length	(Km)	1/	Route
No.	Origin	Destination	Paved	Un- Paved	Total	Remarks —	No.
(DOH Ro	ad)						4
31	B.C. Nakhon Sawan	B.C. Tak	106.80		106.80		5
1-2	Bypass (B. Wang Cha	o)	5.80		5.80		6
101	C. Kamphaeng Phet	B.C. Sukhothai	41.65		41.65		
115	C. Kamphaeng Phet	B.C. Phichit	53.00	**	53.00		
1065	J.R. 101	B.C. Sukhothai		32.76	32.76	**	
1074	J.R. 1	A. Khanu W. Buri	9.34		9.34	**	
1075	J.R. 1	A. Khlong Khlung	1.82		1.82		
1076	J.R. 1	B. Tha Phutsa	0.43		0.43		ě
1078-1	J.R. 1	B. Hua Yang	4.20		4.20		
1078-2	K. Phet Bridge	R. 1078	0.80		0.80		
1079	C. Kamphaeng Phet	B. Nong Pin	5.68		5.68		
1084	C. Kamphaeng Phet	B. Pa Phutsa	8.00*	62.00*	70.00	**	
1109	J.R. 1	B. Loto	10.00*	35.00*	45.00		
1112	J.R. 1	B. Botham	6,00		6.00		100
1116	J.R. 1	J.R. 1110	5.00*	45.00*	50.00	*	
1117	J.R. 1	B.C. Tak	55.00	45.00	100.00		
1132	J.R. 101	B.C. Sukhothai		37.00	37.00	**	
1139	B. Khlong Lan	R. 1110		65.00	65.00		
9118	Khong Wilai	Pang Sip Rai		37.00	37.00	**	
9122	B. Thum	Khao Chon Kan		24.00	24.00	**	
9211	A. Khanuworalaksa	R. 1073		32.00*	32.00	**	
	Buri	Sub-Total	313.52	414.76	728.28		:
(300 b-		*	**************************************		·		
(ARD Ro	B. Tha Ra Hae	Pong Nam Rou		18.63	18.63	A. Khlong Lan	
	B. Mai Thanon Khong	b. Tham Nop Tha K	Chun	26.00	26.00	A. Muang, K. Khlı	ına
13	B. Nong Sa Dao	B. Wang Sai		8.50	8.50	A. Khlong Khlung	<u>-</u>
20	a. Nong sa Dao	Sub-Total		53.13	53.13	23. Imaging Taxaning	
		Sub-10ca1					
					,* •		
(PWD Ro	oad)	en e					e en
1 .	Lan Krabu	Lan Ta Bua		17.88	17.88	A. Phran Kratai	4
2	B. Nathang	Lan Ta Bua		37.00	37.00	A. Phran Kratai	. •
3	B. Don	Nong Don	• .	22.26	22.26	A. Sai Ngam	

Appendix 2-4 LENGTH OF ROUTE BY CHANGWAT IN THE NORTHERN REGION (Continued)

UTHAI THANI

PHETCHABUN

Column C	Route	Route			Length	(Km)	Remarks 1/	Route	Route			Length	(Km)	1.7
1933 S.C. Salfura Sawan Hebal Triori 94.63 94.65 9			Destination	Paved		Total	Renarks —		Origin	Destination	Paved		Total	Remarks 1
100 100	333 1090 3007 3011 3012	B.C. Nakhon Sawan A. Um Phang J.R. 3265 Uthai Thani	A. Nong Chang Tha Nam A. Ban Rai		150.00* 0.92 57.98	150.00 0.92 78.46		12 21-1 21-2 21-3	B.C. Phitsanulok B.C. Lop Buri Bypass (B. Khao T Bypass (B. Wang C	J. to R. 203 Tha Koei) Chomphu)	107.67 175.93	14.38	107.67 175.93 14.38 0.88	
ARD Road Reference Refer	3183 3220 3221 3230 3265 3282	C. Uthai Thani J.R. 333 J.R. 3220 B. Thap Bung Uthai Thani J.R. 3011	B.C. Chai Nat B.C. Nakhon Sawan A. Thap Than Ban Rai Chao Phraya Ry. B. Khok Khwai B.C. Nakhon Sawan	12.25	12.00* 15.90 16.00 26.00 9.00*	12.00 12.00 15.90 16.00 12.25 26.00 9.00	**	203 1069 1191 1205 2001 2004 2005	J. to Lom Sak B. Wang Ngiu B.C. Phichit B. Wang Pong J.R. 21 J.R. 2010 J.R. 203	B.C. Loei B. Dong Khui B. Wang Hin B. Wang Kradat B. Tham Phra J.R. 203 B. Wang Ban	39.13 2.29 6.20	15.61 7.37	39.13 14.15 15.61 7.37 4.00 2.29 6.20	**
(PWD Road) 1 Thap Than Ta Luk Du 13.55 13.55 A. Thap Than 2219 J.R. 12 R. 2010 6.19 6.19 2 Thaluk Du Tha Cha Ow 5.00 5.00 A. Thap Than 2211 J.R. 2012 R. 21 38.26 38.26 ** 3 Nong Kradi - Khok Mo - Khao Dao Duang 34.50 34.50 A. Sawang Arom 2215 J.R. 21 R. 203 100.00 100.00 ** 4 Sawang Arom Bung Khok Chang 15.05 15.05 A. Thap Than 2216 J.R. 12 R. 203 100.00 100.00 100.00 ** 5 Nong Chang Tha Cha Ow 14.20 A. Nong Chang 2219 J.R. 21 B. Nong Ma Kha 15.65 15.65 15.65 6 Haad Thanong Tha Sung 17.00 17.00 A. Muang 2244 J.R. 21 R. 2211 14.50 14.50 14.50 14.50 14.50 14.50 14.50 14.50 14.50 14.50 14.50 14.50 14.50 14.50 14.50 14.50 <td>10</td> <td>B. Muang Karung</td> <td>B. Nong Bom Kluai B.C. Suphan Buri</td> <td>54.36</td> <td>6.10 20.00*</td> <td>6.10</td> <td>A. Ban Rai Under</td> <td>2008 2010 2011 2012 2016 2181</td> <td>J.R. 21 J.R. 203 J.R. 203 J.R. 21 B. Sila J.R. 12</td> <td>B. Na Yom B. Nam Ko B. Tui R. 203 A. Wichian Buri B.C. Loei R. 2010</td> <td>4.00 7.65 8.10 11.94</td> <td>5.86</td> <td>4.00 7.65 8.10 11.94 7.20 22.00 5.86</td> <td></td>	10	B. Muang Karung	B. Nong Bom Kluai B.C. Suphan Buri	54.36	6.10 20.00*	6.10	A. Ban Rai Under	2008 2010 2011 2012 2016 2181	J.R. 21 J.R. 203 J.R. 203 J.R. 21 B. Sila J.R. 12	B. Na Yom B. Nam Ko B. Tui R. 203 A. Wichian Buri B.C. Loei R. 2010	4.00 7.65 8.10 11.94	5.86	4.00 7.65 8.10 11.94 7.20 22.00 5.86	
	1 2 3 4 5	Thap Than Thaluk Du Nong Kradi - Khok Mo Sawang Arom Nong Chang Haad Thanong	Ta Luk Du Tha Cha Ow Tha Cha Ow Bung Khok Chang Tha Cha Ow Tha Sung Thong Lang Sub-Total		13.55 5.00 34.50 15.05 14.20 17.00 27.84 127.14	13.55 5.00 34.50 15.05 14.20 17.00 27.84 127.14	A. Thap Than A. Sawang Arom A. Thap Than A. Nong Chang A. Muang	2196 2209 2211 2215 2216 2219 2244 2245 2258 2271 2275	J.R. 12 J.R. 2012 J.R. 21 J.R. 21 J.R. 21 J.R. 21 J.R. 21 J.R. 21 J.R. 2244 J.R. 21 B. Pak Nam B.C. Lop Buri	R. 2258 R. 2010 R. 21 R. 12 R. 203 B. Nong Ma Kha R. 2211 B. Khok Sakae Lat B. Nong Mae Na B. Chaliang Lao B. Nasanun	6.19	15.20 38.26 35.00 100.00 15.65 14.50 4.69 23.00 10.83 30.35	34.20 6.19 38.26 35.00 100.00 15.65 14.50 4.69 36.00 10.83 30.35	** **

Appendix 2-4 LENGTH OF ROUTE BY CHANGWAT IN THE MORTHERN REGION (Continued)

PHETCHABUN (Continued)

Route	Rout	е		Length	(Km)	$-$ Remarks $\frac{1}{}$
No.	Origin	Destination	Paved	Un- Paved	Total	VanaTV2
9032	Phetchabun	ARD		40.00*	40.00	**
9036	B. Pa, Daeng	Sa Do Phong		17.00	17.00	
		Sub-Total	472.56	499.44	972.00	
(ARD Ro	ad)					
4	B. Chang Tarut	B. Ton Wa		33.00	33.00	A. Muang
5A	Chang Wang	Non Thong		10.77	10.77	A. Lom Sak
5B	B. Tuew Tha	B. Tha I Bun		13.68	13.68	A. Lom Sak
6A	Ngiew	Klong Luang Muang	Thai	4.83	4.83	A. Lom Sak
6B.	Dong Khwang	Kaeng Siew		36.47	36.47	A. Lom Sak
7A	Rahun	Petlakorn		16.00	16.00	A. Bung Sam Phan**
7в	Nong Lai	Petlakorn		33.75	33.75	A. Nong Phai**
. 8A	Nong Daeng	Wichian Buri		25.30	25.30	A. Wichian Buri**
88	Wichian Buri	Nam Ron	***	18.00	18.00	A. Wichian Buri
9A	Chon Daen	Wang Pong		19.00	19.00	A. Chon Daen
9в	Wang Pong	Wang Hin		7,50	7.50	A. Chon Daen
9C	Chon Daen	Sap Phutsa		24.42	24.42	A. Chon Daen
IOA	B. Phu Toei	Sap Noi		24.00	24.00	A. Wichian Buri
108	Khok Sango	Sap Noi		25.00	25.00	A. Wichian Buri
11	Na Chaliew	Sap Phutsa		17.28	17.28	A. Nong Phai
12	B. Lom Kao	B. Tha I Bun		11.32	11.32	A. Lom Sak
16	B. Sak Long	B. Wang Mon		12.60	12.60	A. Lom Sak
17	DOH R. 203	B. Wang Rong		10.00*	10.00	A. Lom Sak
18	B. Don Mun Lek	B. Chang Wang		24.75	24.75	A. Muang
24	B. Lat Khae	B. Sap Mai Daeng		36.70	36.70	A. Chon Daen
26	DOH R. 21	B.C. Chaiyaphum		20.00*	20.00	A. Nong Phai
						Under Construction
28	DOH R. 21	B. Mai Phet Khon	•	10.00**	10.00	A. Nong Phai
		Sub-Total		434.37	434.37	Under Construction
a - +		Total	472.56	934.81	1406.37	•

Appendix 3-1 INDICATORS AND DATA FOR ESTIMATION OF AREA POTENTIAL

Criteria	Indicator	Data Source	Method of Estimation
Mary (Income and Agents - The Company of the Compan			
iture Land otential	Area of Unused Cultivable Lands	1) Department of Land Development (DLD), Ministry of Agriculture and Cooperatives (MAC), Land Capability Map, 1:250,000, 1980	1) Measure, on the Land Capability Map, the cultivable area defined as the total area less the areas with soils not generally suited for cultivated crops.
		2) DLD, MAC, Statistics on Land Utilization by Changwat, 1974-76	2) Compute cultivated area by breaking down the Changwat total cultivated area available in Statistics on Land Utilization by Changwat
		3) Changwat Agricultural Offices, Agricultural Data (to be compiled by the team), 1977/78 - 1978/79	into Amphoe data in proportion to the planted area of Amphoe available in Agricultural Data
			3) Deduct the cultivated area from the cultivable area to get the area of unused cultivable lands.
	Area of Land Planned to be Irrigated	1) Statistics/Program Report Unit, Scrutiny and Improvement Branch, Program Coodination and Budget Division, Royal Irrigation Department (RID), Table Showing Water Resource Development in Thailand Completed to the End of 1978, 1979	 Aggregate the areas made irrigable by the RID's ongoing irrigation projects to be completed by 1978 or later.
		2) Office of District Engineer, RID, <u>List Ongoing Projects</u> , 1978	
erformance of jor Productive ectors	Number of Farm Households	1) Division of Agricultural Economics, Office of the Under Secretary of State, MAC, Economically Active Population between 15-64 years of Age in Agriculture and Non-Agriculture, 1975-78	
	Area of Farming Lands	1) DLD, MAC, Statistics on Land Utilization by Changwat, 1974-76	 See item 2) Method of Estimation, Indicator: Area of Unused Cultivable Lands
		2) Changwat Agricultural Offices, Agricultural Data (to be compiled by the Team), 1977/78 - 1978/79	

Appendix 3-1 INDICATORS AND DATA FOR ESTIMATION OF AREA POTENTIAL

Criteria	Indicator		Data Source		Method of Estimation
Performance of Major Productive Sectors	Value of Crop Production	1)	Division of Agricultural Economics, Office of the Under-Secretary of State, MAC, Agricultural Statistics of Thailand, Crop Year 1977/78		Compute quantity of production by breaking down the Changwat total quantity of production available in Agricultural Statistics of Thailand into Amphoe data in propotion to the quantity of production by Amphoe
		2)	Changwat Agricultural Offices, Agricultural Data (to be compiled by the Team), 1977/78 - 1978/79		obtained from Agricultural Data.
		3)	Division of Agricultural Economics, MAC, Farmgate Prices by Changwat, 1979		Multiply the quantity of production by farmgate prices by Changwat obtained from Farmgate Prices by Changwat, to get value of crop production.
	Value of Livestock Production	1)	Livestock Department, MAC, Statistics of Livestock Raising in the Northern Region, 1976	1)	Multiply livestock production in each Amphoe available in Statistics of Livestock Raising in The Northern Region by average farmgate prices in whole
		2)	Division of Agricultural Economics, MAC, Farmgate Prices, 1978		Thailand obtained from Farmgate Prices, to get value of livestock production.
•	Value of Mining Production	1)	Department of Mineral Resources, Mineral Statistics of Thailand, 1974-78	1)	Estimate Changwat total value of mining production by aggregating The Changwat production of respective minerals weighted by national average of production
		2)	Department of Mineral Resources, Thai Miner's Directory		value per unit, using Mineral Statistics of Thailand.
				2)	Breakdown The Changwat total value of production into Amphoe data in propotion to area of mine lots of Amphoe available in Thai Miner's Directory.
Levels of Urban Activities/Services	Urban Population	1)	Division of Local Government Administration, Department of Local Administration (DOLA), Ministry of Interior, Local Government Directory, 1979	1)	Urban Population is defined as a population of the central Tambon in the Amphoe.
	Number of Physicians and District Health Officers	1)	National Statistical Office (NSO), Changwat Databook (Primary source: Department of Medical and Health Services, Ministry of Public Health, 1978)	الله الله الله الله الله الله الله الله	

Appendix 3-1 INDICATORS AND DATA FOR ESTIMATION OF AREA POTENTIAL

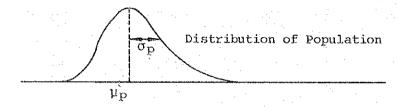
Criteria	Indicator		Data Source	Method of Estimation
		- Andrews		
Level of Urban Activities/ Services	Number of Teachers in Secondary Schools	1)	NSO, Changwat Databook (Primary source: Educational Planning Division, Ministry of Education, 1977)	 Add teachers of Government Schools and them of Private Schools in Secondary level.
	Amount of Electricity Consumption	1)	NSO, Changwat Databook (Primary source: Provincial Electricity Authority, 1977)	
	Number of Postal Matters	1)	NSO, Changwat Databook (Primary source: Communication Authority of Thailand, 1977)	
	Non-agricultural Labor Force	1)	Division of Agricultural Economics, MAC, Economically Active Population between 15-64 years of Age in Agriculture and Non-agriculture, 1978	1) Compute non-agricultural labor force by breaking down the Changwat total labor force available in Data on Economically Active Population into Amphoe data in proportion to non-agricultural population by Amphoe estimated based on population, average persons per
		2)	NSO, Population in Changwat Databook, 1978	household and number of farm household.
	Handling Freight Volume	1)	Land Transport Department, Land Transport Survey, 1975-77 Harbour Department, Inland Waterways Cargo Traffic	 For agricultural freight, estimate at each assembly place based on the flow by crop available in Agricultural Commodity Flow Map
			Survey, 1976 State Railway of Thailand, Major Commodity Flows to and from Bangkok area, 1975	2) For non-agricultural freight, aggregate handling freight volume to and from Bangkok at port, railway station and major assembly places into Amphoe data
		4)	The Study Team, Agricultural Commodity Flow Maps	

Appendix 3-1 INDICATORS AND DATA FOR ESTIMATION OF AREA POTENTIAL

Criteria	Indicator	Data Source	Method of Estimation
opulation actor	Population Size	1) NSO, Changwat Databook (Primary source: DOLA, 1978)	
	Population Increase	1) NSO, <u>Changwat Databook</u> (Primary source: DOLA, 1972, 1978)	1) Compute change in population between 1972 and 1978.
	Population Density	1) NSO, Population in Changwat Databook, 1978	Measure the area of Amphoe on the Topography Map, and compute the density by dividing population data
		2) Army Survey Department, Ministry of Defence, <u>Topography</u> <u>Map</u> , 1:250,000	in 1978 by sq. km of Amphoe.

Appendix 3-2 METHOD OF STATISTICAL TRANSFORMATION FOR ESTIMATING AGGREGATED AREA POTENTIALS

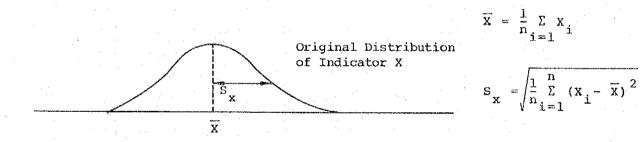
Base Indicator : Population



 $\mu_{\rm p}$: Mean of population distribution

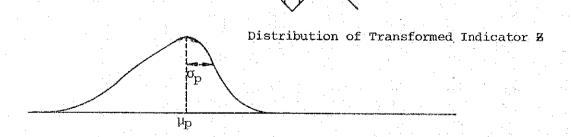
 $\boldsymbol{\sigma}_{\mathrm{p}}$: Standard deviation of population distribution

Statistical Transformation of Indicators; Respective indicators for area potentials are all transformed into population, the base indicator.



 \overline{X} : Mean of data X_{i} (i=1, ..., n)

 $\frac{S}{X}$: Standard deviation of data $\frac{X}{1}$



Characteristics of Transformed Data &

$$\overline{\mathbf{g}} = \frac{1}{n} \sum_{i=1}^{n} \mathbf{g}_{i} = \frac{1}{n} \left\{ \sum_{i=1}^{n} \boldsymbol{\mu}_{p} + \sum_{i=1}^{n} \boldsymbol{\sigma}_{p} \frac{(\mathbf{x}_{i} - \overline{\mathbf{x}})}{\mathbf{S}_{x}} \right\} = \frac{1}{n} (\mathbf{n} \cdot \boldsymbol{\mu}_{p})$$

$$= \boldsymbol{\mu}_{p}$$

$$\mathbf{g}_{z} = \sqrt{\frac{1}{n}} \sum_{i=1}^{n} (\mathbf{g}_{i} - \overline{\mathbf{g}})^{2} = \sqrt{\frac{1}{n}} \sum_{i=1}^{n} \{\boldsymbol{\mu}_{p} + \boldsymbol{\sigma}_{p} \frac{(\mathbf{x}_{i} - \overline{\mathbf{x}})}{\mathbf{S}_{x}} - \boldsymbol{\mu}_{p} \}^{2}$$

$$= \sqrt{\frac{1}{n}} \boldsymbol{\sigma}_{n} \sum_{i=1}^{2} \frac{(\mathbf{x}_{i} - \overline{\mathbf{x}})}{\mathbf{S}_{x}} = \sqrt{\frac{1}{n}} \boldsymbol{\sigma}_{p}^{2} \cdot \mathbf{n} = \boldsymbol{\sigma}_{p}$$

All data are thus expressed in terms of population size. The transformation is similar to normalization but, unlike the case with normalized data. μ does not take minus value. Aggregated area potentials are, therefore, expressed in positive term all the time.

Formula for Transformation

$$z_i = \mu_p + \sigma_p, \frac{(x_i - \overline{x})}{S_x}$$

where,

Z: : Transformed data of X

μ_ : Population mean

σ : Standard deviation of population distribution

X: : Original data series of indicator

 \overline{X} : Mean of data X_{i}

S : Standard deviation of data X

Appendix 3-3 INDICATORS AND BASIC DATA: WHOLE COUNTRY BY CHANGWAT

Criteria	Future Lan	ıd	Performanc Sectors	e of Major	Productive	Level of U	rban /Services	Population	a Factor
Indicators	Area of Unused Cultiva- ble Lands	Area of Lands Planned to be Irrigated	Area of Farming Lands	Value of Crop Produc- tion	Value of Mining Produc- tion	Urban Popula- tion	Value Added from Urban Service Sector	Popula- tion Size 1978	Popula- tion Increase 1972-78
Amphoe	(10 ³ rai)	(10 ³ rai)	(10 ³ rai)	(HB)	()40\$)	(person)	(H))	(person)	(person)
DI NAKHON SAWAN D2 PHICHIT D3 PHITSANULOK D4 UTTARADIT D5 PHRAE D6 LAMPANG D7 NAN D8 PHAYAO D9 CHIANG RAI 10 CHIANG MAI 11 MAE HONG SON 12 LAMPHUN 13 TAK 14 SUKHOTHAI 15 KAMPHAENG PHET 16 UTHAI THANI 17 PHETCHABUN	1539 841 1828 630 292 1683 280 1358 2027 1809 257 1182 2056 1494 2382 342	205 1146 539 8 3 124 33 12 119 499 10 50 198 586 540 41	3312 1913 2063 1112 680 789 763 974 1454 1250 419 549 549 1632 1719 1576 3893	1814 1425 1295 663 791 877 730 1045 1819 2002 179 766 379 1418 1031 624 2313	14 28 4 38 70 1 55 113 96 5 5 4 96	651 425 706 176 183 420 200 222 136 934 45 116 329 266 139 176 293	877 362 691 337 389 822 266 528 2099 94 299 347 339 278 197	956 689 419 435 656 371 447 899 1132 125 342 244 519 245 755	19 100 19 5 70 70 15 100 2 3 2 11 18 5
O2 CHAI NAT O3 NÜNTHABURI O4 PATHNM THANI O5 AYUTTHAYA O6 LOP BURI O7 SAMUT PRAKAN O8 SARABURI O9 SING BURI 10 ANG THONG 11 CHANTHABURI 12 CHACHGENGSAO 13 CHON BURI 14 TRAT 15 NAKHON NAYOK 16 PRACHIN BURI 17 RAYONG 18 KANCHANABURI 19 NAKHON PATHOM 20 PRACHUAP KHIRI KHAN 21 PHETCHABURI 22 RATCHABURI 23 SAMUT SONGKHRAM 24 SAMUT SAKHON 25 SUPHAN BURI	548 0 165 91 352 0 0 0 803 973 587 637 114 1897 524 2926 436 1000 5785 0 0	76 0 0 198 25 0 34 0 170 0 367 41 45 62 486 1149 430 37 187 179 192 0 638	1036 398 988 1480 2684 515 1779 777 731 729 1303 434 910 1129 1550 818 656 785 1223 343 491 2169	994 585 810 1349 1020 610 938 607 608 387 1341 2300 198 541 1154 1168 2619 1323 892 665 1790 186 340 2968	19 35	168 351 56 582 486 540 426 111 183 373 361 84 95 368 208 180 378 338 461 668 244 498 323	296 389 213 716 936 771 722 199 215 745 393 2076 440 215 416 632 1504 971 353 964 972 194 354 780	323 3500 510 579 435 456 254 307 471 693 131 197 589 476 542 351 197 194 253 697	6 97 10 11: 10 10 3 3 3 9 11: 15 3 3 16 10 14 12 11 15 13 3 5
OI KALASIN OZ KHON KAEN OZ KHON KAEN OZ CHALYAPHUM OZ NAKHON PHANOM OS NAKHON RATCHASIMA OS BURI RAM OZ MAHA SARAKHAM OZ ROI ET OZ LOEI II SAKON NAKHON OZ SURIN OZ NONG KHAI OZ UBON RATCHATHANI	2018 3544 3200 2258 5630 4335 1363 2473 1334 2318 862 2512 242 3624 6373 1439	18 23 56 391 128 14 0 252	1590 4870 2204 2219 2355 1205 2408 1927	1114 1852 1285 900 2717 1544 1013 1186 356 1072 1013 928 699 1635 1566 710	17 14 29 52 14 13 14 5 9 13 8 7 40 28	177 452 161 210 984 190 259 227 117 157 220 247 701 689 162	556 1183 290 419 1468 458 448 247 382 395 448 331 1023 1055 235	2104 1057 735 1050 425 1031 747 977 638 1388 1561	15 24 19 16 61 25 10 23 14 22 18 27 40
101 KRABI 102 CHUMPHON 103 TRANG 104 NAKHON SI THAMMARAT 105 NARATHIWAT 106 PATTANI 107 PHANGNGA 108 PHATTHALUNG 109 PHUKET 110 YALA 111 RANONG 112 SONGKHLA 113 SATUN	1270 1413 1642 2912 969 480 841 987 0 624 126 1812 295	18 0 540 767 299 0 48 6 242 0 66	456 486 530 1452 507 514 370 874 333 400 345 789 417	267 285 699 1815 1062 551 214 718 160 430 1573 221 790	42 32 528 4 2 710 2 339 52 231 115	971 178 367 821 401 345 149 150 385 560 600 1174 105 496	159 387 620 1161 439 418 263 377 506 516 206 1784 140	319 407 1213 421 427 169 397 126 257 81 802	58 88 28 99 33 22 18 44 13

Appendix 3-4 INDICATORS AND BASIC DATA: AMPHOE

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Criteria	Future La Potential	nd	Performan	ice of Major	Productive	e Sectors		Level of t	rban Activi	ties/Servi	es				Population	Pactor	
Indicators	Area of Unused Cultiva- ble Lands	Area of Lands Planned to be Ixrigated	Number of Farm House- holds	Area of Farming Lands	Value of Crop Produc- tion	Value of Livestock Produc- tion	Value of Mining Produc- tion	Urban Popula- tion	Physi-	Number of Teachers in Secon- dary Schools	Electri-	Number of Postal Matters	Non-agri- cultural Labor Force	Handling Freight Volume	Popula- tion Size 1978	Popula- tion Increase 1972-78	Popula- tion Density 1978
Amphoe	(10 ³ rai)	(10 ³ rai)	(unit)	(10 ³ rai)	(MB)	(M3)	(3401/8)	(person)	(person)	(person)	(HWb/y.)	(10 ³ unit)	(person)	$\frac{(10^3 \text{ t/y.})}{}$	(person)	(person)	(person/km ²)
0101 M. NAKHON SAWAN 0102 LAT YAÖ 0103 BANPHOT PHISAI 0104 KAÖ LIEÖ 0105 CHUMSAENG 0106 KRÖK PHRA 0107 PHAYUHA KHIRI 0108 TAKHLI 0109 THA TAKÖ 0110 PHRISALI 0111 NÖNG BUA	125 450 0 0 63 53 100 3 127 143 48	3 0 0 0 0 42 20 21	13735 16003 10070 4217 10314 4131 8778 15736 9585 9334 10788 6259	269 400 286 122 251 136 279 410 374 304 372	297 336	65 78 71 25 60 25 76 110 96 79 76		55741 26845 5533 4728 14267 16782 10704 247760 9643 12256 10536	30 0 1 0 1 1 0 0 1	1073 95 69 32 128 33 129 313 67 89 25	42678 1520 643 901 2772 613 3194 12697 1189 379 603 983	1706 85 59 37 140 33 82 489 59 35 67	77081 16316 12651 2772 16009 4725 11794 28759 7006 5550 5337 3507	1005 46 8 0 29 0 278 5 129 21 0	198450 126022 84970 30583 79774 33174 67479 108355 72145 61235 56893 36115	29224 33767 18153 1192 8881 2425 2440 -7304 4705 16659 6299	59 82
0201 M. PHICHIT 0202 SAM NGAM 0203 TAPHAN HIN 0204 BANG MUN NAK 0205 PHO THALE 0206 PHO PRATHAP CHANG 0207 WANG SAI PHUN	0 278 147 71 187 42	39 95 70 90 49	15201 7282 11152 8237 9963 4845 2228	459 193 419 329 354 174 105	188 317 264 355 134	90 80 89 71 117 43 20	i 3 . (0 17075 0 10912 0 15679 9 11144 0 7665 0 4694	7 0 0 0 0 1 1	222	7721 371 2037 2152 301 0 38	311 45 258 240 43 0	19343 5549 20417 12373 4755 3074 4313	141 0 153 25 0 0	141937 36112 125517 82778 67605 36800 31649	15862 67 -2935 2094	84 139 129 78 107
0301 M. PHITSANULOK 0302 PHROM PHIRAM 0303 WAT BOT 0304 CHAT TRAKAN 0305 NAKHON THAI 0306 WANG THONG 0307 BANG KRATHUM 0308 BANG RAKAM 0309 NOEN MAPRANG	235 17 350 251 278 412 0 211 257	0 57 5 8 5 53 106	17256 8961 5792 2500 7525 14538 5387 9932 5854	209 326 149 71 266 256 146 407	252 73 48 157 183 114 229	76 38 42 91 81		0 73175 0 13645 0 11590 0 5526 0 11533 0 20140 0 6130 0 32994	31 0 0 1 0 0 0	23 2 29 19 33 24	36417 704 191 80 327 943 446 816	2032 55 25 19 45 75 48 55 65	75681 13709 4272 913 3388 13319 10702 13871 8345	303 0 0 0 141 0 30	198864 81570 32799 19862 49133 102260 55873 95287	2417 5404 8192 12287 20222 3566 35064	88 38 2 13 2 20 2 55 5 160 4 96
0401 M. UTTARADIT 0402 FAK THA 0403 NAM PAT 0404 THA PLA 0405 LAPLAE 0406 TRON 0407 PHICHAI 0408 BAN KHOK	145 22 190 0 72 210 165	4 0 0 0 2 2	13416 2001 3850 4423 5974 7825 8738 1154	164 53 63 86 67 209 244	21 50 64 64 175 214	36 53 21 42 82 53		6 30272 0 4835 0 7637 1 8460 0 4164 0 14300 0 8397	23 0 1 1 1 0	20 37 47 38	16350 64 138 69 656 583 1119	821 11 35 28 65 52 80	27256 916 2418 4662 6638 3856 6047 496	1 3 <u>1</u>	142402 15038 27791 36958 56518 59089 69508	165: 343: 5 315: 5 6526 3 687: 5 916:	1 21 2 16 7 22 5 126 2 66 9 94
D501 M. PHRAE 0502 SONG 0503 RONG KWANG 0504 DEN CHAI 0505 LONG 0506 SUNG MEN 0507 WANG CHIN	54 225 54 0 185 1	1 4 0 6	3527 7115 9348	121 52 78 90	151 93 72 140 109	51 54 17 55 38	12	0 19515 8 9626 0 8990 0 16636 0 14122 0 8158 6 9840	15 0 1 0 0 0	32 72 65 31	1001 1208 1334 449	629 72 51 110 61 81 20	23527 7522 6672 5312 3917 12447	0 0 126 0	7946	2 1341 5 729 3 161 7 810 5 363	9 39 8 58 1 54 8 41 2 208
0601 M. LAMPANG 0602 WANG NUA 0603 CHAE HOM 0604 NGA0 0605 HANG CHAT 0606 KO KHA 0607 MAE THA 0608 SOP PRAP 0609 THOEN 0610 MAE PHRIK 0611 SOEM NGAM	321 141 244 222 33 162 31 85 317 188 188 242	0 29 0 2 7 5 4 1 3	10046 5009 5629 8325 8690 3823 7056 2377 3322	8 62 5 100 8 67 9 135 6 93 1 115 8 48 5 127	2 129 92 77 5 73 5 59 6 126 8 49 7 56 6 32	61 65 66 66 67 67 68 66 66 66 66 66 66 66 66 66 66 66 66		1 43717 3 18864 18 16803 7 4656 1 9506 0 11547 3 9432 5 9887 0 17657 0 8117 20 7239	0 0 0 1 0 0 1 1	13 35 36 62 32 17 49 32	131 210 496 1528 3177 706 104 1333 102 48	27 95 82 54 88 27 22 116	2639 6037 5289 6848 7185 4478 1577 5914 920	0 0 23 0 178 0 0 0	43056 71132 44865 44006 60945 63312 25722 54522 15012 2885	583 593 6 90 3 368 9 477 2 209 2 138 7 255 7 34	4 40 5 34 2 30 5 67 9 118 8 70 2 63 2 31 1 35 1 37

Appendix 3-4 INDICATORS AND BASIC DATA: AMPHOE

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Criteria	Future Lar Potential	nđ .	Performan	ce of Major	Productive	Sectors		Level of	Urban Activ	ties/Servi	ces				Population	Factor	
Indicators	Ares of Unused Cultiva- ble Lands	Area of Lands Planned to be Irrigated	Number of Farm House- holds	Area of Farming Lands	Value of Crop Produc- tion	Value of Livestock Produc- tion	Value of Mining Produc- tion	Urban Popula- tion	Physi-	Number of Teachers in Secon- dary Schools	Electri-	Number of Postal Matters	Non-agri- cultural labor Force	Handling Freight Volume	Popula- tion Size 1978	Popula- tion Increase 1972-78	Popula- tion Density 1978
Amphoe	(10 ³ rai)	(10 ³ rai)	(unit)	(10 ³ xai)	(HR)	(M)()	(M)()	(person)	(person)	(person)	(MWh/y.)	(10 ³ unit)) (person)	(10^3 t/y.)	(berson)	(person)	(person/km ²)
0701 M. NAN 0702 THUNG CHANG 0703 CHIANG KLANG 0704 PUA 0705 THA WANG PHA 0706 MAE CHARIM 0707 SA 0708 NA NOI 0709 BAN LUANG	38 17 15 54 74 0 213 4 78	3 4 7 9 1 8 0	12795 1902 4441 8554 6005 2058 7375 3610 1298	32 47 71 82 13 142 45	75 71 155 95 15 178 71	15 27 62 45 17 63 30		22017 2356 2 8991 0 11995 0 8460 0 5493 0 10950 0 7679 0 0	17 1 0 0 1 0	220 16 26 43 26 4 72 31 4	5805 94 223 291 376 0 661 120 0	633 102 124 114 34 0 140 66	16206 1373 2307 4356 4194 479 6514 3678 1065	38 1 0 0 0 33 0 0	96709 13495 29648 50795 41221 13350 57265 30723 10464 15593	12004 1553 934 4629 4713 2016 3508 5328 1779	60 15 36 32 57 12 27 28 23
D801 M. PHAYAB D802 CHIANG KHAM D803 PBNG D804 CHIANG MUAN D805 CHUN D806 DBK KHAM TAI D807 MAE CHAI	343 170 250 120 194 170	0 11 0 0 4 4	15197 13038 5282 1936 7236 9865 4758	109 109	161 95 56 121 131	100 58 27 57 93	· (23762 14438 11785 10189 17486 21738 0 12904	5 1 0 1 1 1	186 103 19 8 20 28 20	4330 1134 276 129 302 675 361	289 133 49 0 37 69 28	35364 20411 4349 1115 11700 8977 6910	190 2 0 0 0 0	128095 99521 36756 17669 64490 71131 36501	9292 25700 3867 2073 20794 11739 7666	116 96 20 31 92 91 126
D901 M. CHIANG RAI D902 MAE SAI D903 CHIANG SAEN D904 CHIANG KHONG D905 MAE CHAN D906 THUENG D907 PA DAET D908 PHAN D909 MAE SUAI D910 WIANG PA PAO D911 WIANG CHAI	459 82 58 204 117 259 8 219 82 34	0 78 1 0 0 2 1 0 0	32521 7145 5099 5521 12253 17300 3747 18808 5793 7218	89 280 330 110 197 65	148 90 262 247 276 102 744	39 30 70 93 132 21 134 48	33	38804 0 27892 0 13974 0 11542 0 8764 17019 11026 0 24554 7 7520 9830 0 18939	21 0 0 0 0 0 1 0 1	418 70 19 23 60 53 18 145 11 42	12535 2174 328 594 1566 365 0 1705 2174 593	1024 129 45 130 142 161 19 195 25 77	39001 16313 9711 8819 22120 16898 2971 28759 6074 14382 8925	194 13 0 7 0 0 0 0 23 0	190999 62616 45973 56928 101339 126306 24618 123770 41081 60076	15607 7 338	101 187 81 50 67 79 119 122 26 52
1001 M. CHIANG MAI 1002 MAE AI 1003 FANG 1004 CHIANG DAG 1005 MAE TAENG 1005 PHRAG 1005 SAMBENG 1008 MAE RIM 1009 SAN SAI 1010 DGI SAKET 1011 DGI SAKET 1011 SAN KAMPHAENG 1012 SARAPHI 1013 HANG DGNG 1014 SAN PA TONG 1015 CHOM THONG 1016 MAE CHAEM 1017 HGT 1018 GMKGI 1019 DGI TAG	3 83 109 223 54 77 0 55 48 56 54 16 0 0 1 85 364	5 15 10 31 13 2 160 7 0 1 10 29 6 17 5	2647 6016 12573 6987 6709 5749 3008 5403 7797 7056 7805 8794 6501 11724 10639 4670 3342 3390 4139	65 74 146 54 129 91 16 51 82 60 135 50 71 127 125 22 29 16	650 219 236 156 49 100 183 209 311 149 305 373 25	39 68 48 47 55 34 37 52 55 94 32 35 74 77 56 43	2	0 9376 0 6145 0 9079 0 9170 0 6527 4 9041 0 12034 0 14536 6 8641 0 7673 0 7391	.1	1475 25 142 28 45 35 10 43 39 29 86 72 11 96 53 16 53 8	87739 203 1236 393 1178 172 53 3185 2085 1156 2486 3233 689 1995 593 52 137 23	3557 0 265 60 78 59 10 141 58 66 98 48 121 104 0 43	77413 5112 13550 8529 10581 7748 1921 14675 14051 10254 19326 11080 22301 10642 2290 5002 1837 1916	0 13 0	172603 41037 100703 50340 57388 44421 17524 57744 67132 77563 54152 77563 54209 101764 35354 30419 20480 21356	1966 -54 3407 764 4599 7965 8515 5213 3789	134 189 91 130 583 205 149 57 12 29
LIO1 M. MAE HONG SON LIO2 PAI LIO3 KHUN YUAM LIO4 MAE LA NOI LIO5 MAE SARIANG	194 41 106 61 4	0 3 1	2541 2794 2185 2999 5741	34 20 16 45 140	16 16 39	27 21 28	· \$.	1 5101 9 2120 0 3771 8 6455 4 11311	a	32 16 11 4 50	1166 60 93 43 651	120 21 0 16 79	7861 3611 3076 2428 9765	O	28998 15071 14784 18337 49958	1660 4527 5094	7 : 9 : 13
1201 M. LANPHUN 1202 MAE THA 1203 PA SANG 1204 BAN HÖNG 1205 LI 1206 THUNG HUA CHANG	94 110 107 158 514	2 0 4	13775 5016 9943 5781 7182 2370	133 35 92 41 35 8	112 485 770 49	35 63 63 7 7 8 8	3 2 2	0 12744 6 8578 0 7004 9 14650 1 16872 0 0	0 1 1	284 20 31 45 32 0	2152 667 196	945 41 161 51 66 0	20915 3628 6678 3781 2361 661	0 0 0	44488	2113 7 2254 5 3635 6112	5 751 209 86 2 22

Appendix 3-4 INDICATORS AND BASIC DATA: AMPHOE

Criteria	Future Lar Potential	Future Land Performance of Major Productive Sectors Level of Urban Activities/Se						ties/Servi	cea				Population	Pactor	and the state of t		
Indicators	Area of Unused Cultiva- ble Lands	Area of Lands Planned to be Irrigated	Number of Farm House- holds	Area of Farming Lands	Value of Crop Produc- tion	Value of Livestock Produc- tion	Value of Mining Produc- tion	Urban Popula- tion	Number of Physi- cians and District Health Officers	Number of Teachers in Secon- dary Schools	Amount of Electricity Con- sumption	Number of Postal Matters	Non-agri- cultural Labor Force	Handling Freight Volume	Popula- tion Size 1978	Popula- tion Increase 1972-78	Popula- tion Density 1978
Amphoe	(10 ³ rai)	(10 ³ rai)	(mit)	(10 ³ rai)	()(1)	(£13)	(M)	(person)	(person)	(person)	(HWh/y,)	(10 ³ unit)	(person)	(10 ³ t/y.)	(person)	(person)	(person/km ²)
1301 M. TAK 1302 THA SONG YANG 1303 MAE RAMAT 1304 SAM NGAO 1305 BAN TAK 1306 MAE SOT 1307 UMPHANG 1308 PHOP PHRA	581 0 110 362 513 4 569 177	2 0 2 0 2 1 0	8545 2445 4058 2599 3491 7896 1385 1226	78 33 52 74 59 165 11	230 89 84 92 228 227 26	134 25 22 35 75 71 12	59 0 0 12 13	6166 7250 8365 8392 17531 3867	11 1 0 0 0 1 1 1	298 5 13 18 -26 110 7	9802 55 216 209 14 3597 42	450 0 16 30 41 195 0	21356 824 2124 5463 6702 11744 1357	120 0 0 0 0 70 0	76649 15384 28321 24695 37904 64468 10131 9010	731 6378 3193 1892 10015 1533	38 8 15 12 31 42 2 10
1401 M. SUKHOTHAI 1402 SI SATCHANALAI 1403 THUNG SALIAM 1404 SWANKHALOK 1405 SI SAMRONG 1406 KONG KRAILAT 1408 BAN DAN LAN HOI 1409 SI NAKHON	0 33 50 0 76 154 791	0 1 0 70 4 0 0 0 3	10599 9910 5473 10463 8454 7089 5183 2887 3936	259 389 220 314 290 183 147 75	120 308 169 223 163 136 54 52	80 61 21 36 31 54 40 37	0 3 4 0 0 0 0	6 5392 10215 10437 7157 3902 11403 4329	14 0 1 1 1 0 0	163 61 49 132 97 25 16 8 25	6456 954 382 2237 3684 381 355 164 337	362 90 51 239 135 49 43 19	22398 7558 3445 15036 8968 4214 4116 2679 2767	152 0 14 169 0 29 0	101960 77417 37643 88002 63899 57556 42154 24390 28340	8954 10350 6104 12087 6471 5488 2499 3134 3891	232 38 71 200 174 139 69 16
1501 M. KAMPHAENG PHET 1502 PHRAN KRATAI 1503 KHLONG KHLUNG 1504 KHANU WORALAKSABURI 1505 SAI MGAM 1506 KLONG LAN 1507 LAN KRABU	423 489 268 298 119 191 60	88 18 115 70 90 35	23947 6861 12370 12651 5144 2827 3494	546 187 587 501 206 159 184	623 189 605 425 198 136	83 60 51 68 18 10 30	2 0 0 0 0 0	18764 15860 9639 17216	9 1 0 1 0 0	228 34 95 121 5 0	7805 741 939 1821 0 0	326 46 57 49 0 0	42200 11095 26639 24202 9041 6022 5200	1127 19 300 431 0 0	175540 55384 106379 105053 37610 24048 25959	23013 9920 6345	104 48 54 82 72 15 66
1601 M. UTHAI THANI 1602 SAWANG AROM 1603 THAP THAN 1604 NONG KHAYANG 1605 NONG CHANG 1606 BAN RAI 1607 LAN SAK	75 54 52 10 31 521 107	0 0 35 44 2 0	4194 3057 4582 2386 5735 8849 5092	77 148 154 98 166 395 245	84 140 145 98 161 435		0 0 0 0 25 2	3706 3175 2926 4525 5 6736	10 1 0 1 0 1 0	186 13 38 17 74 15	4485 191 313 125 748 70	219 15 30 14 67 23	13919 1790 3966 2318 6719 3546 1630	196 3 0 0 11 221	45995 20151 31881 15303 43624 59855 27517	2343 4803 64 -3854 939 26954	193 56 92 95 131 15 23
1701 M. PHETCHABUN 1702 LOM KA© 1703 LOM SAK 1704 NONG PHAI 1705 WICHIAN BURI 1706 CHON DAEN 1707 SI THEP 1708 BUNG SAM PHAN 1709 NAM NAO	270 112 35 3 0 120 173 1	12 15 16 0 5 2 0 3	17468 4856 14112 18802 15737 10175 6833 9523 744	446 519 880 283 255	327 147 398 375 516 205 172 286 40	64 95 40 32	C C	11154 14223 19506 18149 1 22242 1 12377 17451	10 0 0 0 0 0 0 1 1	218 88 140 103 136 49 59 76	636 3717 2158 958 1130 453 210	552 65 725 97 107 85 43 60	33694 8493 31934 16364 8836 14346 5153 9345	184 0 21 142 245 5 28 24	147599 53949 144888 103943 86350 95923 50351 59359 11503	25802 19272 17427 36246 3232 11004	122 92 51 49 60 84

Appendix 3-5 POTENTIALS IN TERMS OF POPULATION SIZE: WHOLE COUNTRY BY CHANGWAT

Criteria	Future Lan Potential	d .	Performanc Sectors	e of Major	Productive	Level of U	rban /Services	Population	Pactor
Indicators	Area of Unused Cultiva- ble Lands	Area of Lands Planned to be Itrigated	Area of Farming Lands	Value of Grop Produc- tion	Value of Mining Produc- tion	Urban Popula- tion	Value Added from Urban Sorvice Sector	Popula- tion Size 1978	Popula- tion Increase 1972-78
Amphoe	(10 ³ rai)	(10 ³ rai)	(10 ³ rai)	(HB)	(808)	(person)	(H)	(person)	(person)
LO1 NAKHON SAWAN LO2 PHICHIT LO3 PHITSANULOK LO4 UTTARADIT LO5 PHASE LO6 LAMPANG LO7 NAN LO8 PHAYAO LO9 CHIANG RAI L11 MAE HONG SON L12 LAMPHUN L13 TAK L14 SUKHOTHAI L15 KAMPHARIG PHET L16 UTHAI THANI L17 PHETCHABUN	622 432 701 375 283 662 279 673 758 273 525 763 610 852 296	1098 316 309 487 353 322 480 1039 319 378 332 596 1167 805	1309 774 831 468 302 344 415 598 520 203 252 301 866 700 645 1531	1020 797 722 358 432 481 397 578 1023 1128 80 418 195 792 570 336	423 462 409 395 490 578 387 537 698 467 545 398 409 401	993 660 1074 293 303 652 328 360 234 1410 204 518 425 238 293	827 382 565 360 405 779 298 525 1883 150 327 369 362 309 239 408	956 546 589 419 435 551 447 899 1132 125 342 244 519 525 245	841 486 841 447 342 358 369 486 155 178 529 794 354
202 CHAI NAT 203 NONTHABURI 204 PATHNM THANI 205 AYUTTHAYA 205 LOP BURI 207 SAMUT PRAKAN 208 SARABURI 209 SING BURI 210 ANG THONG 211 CHANTHABURI 212 CHACHOENGSAG 213 CHON BURI 214 TRAT 215 NAKHON NAYOK 216 PRACHIN BURI 217 RAYONG 218 KANCHANABURI 219 NAKHON PATHOM 220 PRACHUAP KHIRI KHAN 221 PHETCHABURI 221 SAMUT SONGKHRAM 222 SAMUT SONGKHRAM 222 SAMUT SONGKHRAM 222 SAMUT SONGKHRAM 222 SUPHAN BURI	352 203 248 228 299 203 203 203 422 468 363 377 234 720 346 1001 322 476 360 411 203 203 342	304 304 596 341 304 355 304 555 371 396 1021 402 1995 937 359 580 587 304	439 195 413 508 1069 239 723 340 319 631 541 209 806 474 635 293 351 210 174 230 672	549 302 443 7534 328 517 326 327 488 1300 91 288 449 1483 738 490 1006 64 173 1684	384 384 442 473 415 1984 453 426 384 484 409 398 417 442 1331 384 840 803 845 437 481	281 550 116 891 749 829 681 197 303 583 530 1155 157 173 576 340 298 690 531 713 1018 393 769	325 405 253 688 878 735 693 241 255 713 408 1863 449 255 428 615 1368 909 374 902 236 375 743	323 350 510 579 433 456 201 254 307 471 593 131 197 589 354 476 542 352	311 428 354 494 478 478 213 428 529 661 217 206 478 552 513 330 598 598
301 KALASIN 302 KHON KAEN 303 CHAIYAPHUM 304 NAKHON PHANOM 305 NAKHON RATCHASIMA 306 BURI RAM 307 MAHA SARAKHAM 308 ROI ET 309 LOEI 310 SI SA KET 311 SAKON NAKHON 3112 SURIN 313 NONG KHAI 314 UDON THANI 315 UBON RATCHATHANI 316 YASOTHON	753 1169 1075 618 1738 1385 574 877 567 835 438 888 269 1191 1940	680 393 357 497 382 646 331 338 387 880 493 325 304 675	821 1038 856 650 1905 885 891 943 503 963 779 1054 615 1463 1478	618 1042 716 495 1539 865 560 659 182 594 860 511 379 917 878	420 431 423 465 556 423 420 423 398 409 420 406 403 495 462 398	270 343 1483 313 415 368 206 265	549 1091 319 431 1337 460 456 483 399 410 456 355 980 272	2104 1067 735 1050 425 1031 747 977 633 1388	577 1012 837 697 2450 1113 549 1106 463 989 654 936 611 1145 1647
401 KRABI 402 CHUMPHON 403 TRANG 404 NAKHON SI THAMMARAT 405 NARATHIWAT 406 PAITANI 407 PHANGNGA 408 PHATTHALUNG 409 PHUKET 410 YALA 411 RANONG 412 SONGKHLA 413 SATUN	549 588 551 997 467 334 432 445 203 373 237 697 283 1583	331 304 1246 1433 744 304	217 228 245 598 236 239 184 377 170 195 174 344 202 311	131 141 379 1021 588 294 100 390 69 225 15 882 104	462 501 473 1851 395 390 2356 390 1323 528 1026 703 384	1464 296 574 1243 624 542 253 254 601 858 917 1763 188 764	206 403 505 1072 448 430 296 395 506 515 247 1610 605	319 407 1213 421 427 169 397 125 257 811 802	385 1180 435 45 200 432 175 299 151 774 23

Appendix 3-6 POTENTIALS IN TERMS OF POPULATION SIZE: AMPHOE

	P		Performance of Major Productive Sectors														
Criteria	Future Las Potential	1d	Performanc	e of Major	Productive	Sectors	· · · · · · · · · · · · · · · · · · ·	Level of U	rban Activit	ies/Servic	2			بغايد بهين ديو سرم داسانه	Population	a Factor	
Indicators	Area of Unused Cultiva- ble Lands	Area of Lands Planned to be	Number of Farm House- holds	Area of Farming Lands	Value of Crop Produc- tion	Value of Livestock Produc- tion		Urban Popula- tion	Physi- cians and District	Teachers in Secon- dary	Electri- city Con-	Number of Postal Matters	Non-agri- cultural Labor Force	Handling Freight Volume	Popula- tion Size 1978	Popula- tion Increase 1972-78	Popula- tion Density 1978
Amphoe		Irrigated							Health Officers	Schools	sumption		·				
0101 M. NAKHON SAWAN 0102 LAT YAO	56204 146236	59924 41105	115777 135415	92311 130525	101397	71850 89019	47923 47923	203447 107912	117379 53673	284235 52466	245686 55336	223293 53098	275311 79080	315087 58333	198450 126022	151585 183314	123593
0103 BANPHOT PHISAI	21576	106345	84043	97284	72643	79922	47923	47435	53673	56570	51280	50368	67244	48237	84970	108868	72458
0104 KAB LIEB	21576	44868	33364	49318	46450	21369	47923	34789	55796	48160	52473	48058	35341	45095	30583	28102	72545
0105 CHUMSAENG	39029	41105	86155	87047	66297	65828	47923	66326 41580	53673 55796	6994 <u>9</u> 48407	51125 51141	58873 47638	78088 41648	53834 46095	79774 - 33174	64716 33973	60327 66975
0105 KROK PHRA 0107 PHAYUHA KHIRI	36259 49279	41105 41105	32619 72856	53998 95236	43528 71057	21369 85816	47923 47923	54547	55796	70176	63078	52783	64477	120620	67479	34045	63387
0108 TÄKHLI	22408	41105	133104	133550	197596	130147	54030	177051	53673	111899	107028	95516	119262	47434	108355	-12355	86484
0109 THA TAKO	56758	93798	79844	123021	92768	112082	47923	51039	53673	56117	53805	50368	49014	80532	72145	44830	59061
0110 PHAISALI	61191	56197 55024	77671	102548	103569	90172	47923	59678 53991	55796 55796	61105 46593	50059 51095	47848 51208	44312 43625	51718 46095	61235 58893	101754 52421	51213 59221
0111 NONG BUA 0112 TAK FA	34874 35705	65824 41105	90260 51045	122436 77103	84112 63736	8620 0 5455 3	68026 47923	46896	53673	54303	52852	49843	37715	46095	35115	-4978	52974
0201 M. PHICHIT	21576	302818	128471	147881	130318	103753	47923	75610	68538	100561	84015	76827	88855	83933	141937	105744	95048
0202 SAM NGAM	98589	69658	59903	70084	62539	91325	47923	55234	53673	48407	50022	48898	44309	46095	36112	79606	59924
0203 TAPHAN HIN	62299	159917	93412	136182	98308	102472	47923	70995	53673	91264	57727	71252	92323	87066	125517	97958	79100
0204 BANG MUN NAK	41245	128677	68172	109860	83722	79794	147930	56001 444 99	53673 53673	62919 51128	58259 49698	69372 48688	65345 41745	52870 46095	82778	22745 8450	75833
0205 PHO THALE 0206 PHO PRATHAP CHANG	73380 33211	154020 102706	93117 38802	117172 64527	108941 47508	138604 43791	47923 47923	34676	55796	44779	48305	44173	36317	46095	67605 36800	32397	57918 67908
0207 WANG SAI PHUN	21576	44241	16142	44346	37042	14450	47923	19157	55796	42284	48482	44173	40318	46D95	31649	41026	74523
0301 M. PHITSANULOK	86954	245862	146265	74763	65267	124894	47923	251087	119503	220053	216730	257521	270790	127342	198854	103835	121319
0302 PHROM PHIRAM	26286	41105	74441	108982	80159	86457	47923	64270	53673	57251	51562	49948	70661	46202	81570	33935	61318
0303 WAT BOT	139311	111990	47001	57215	30529	37385	47923	57476	53673	46139	49189	46798	40185 29338	46095.	32799	48159	43812
0304 CHAT TRAKAN 0305 NAKHON THAI	91 109 98589	47378 51643	184 97 62007	34402 91434	23486 53855	42510 106060	47923 47923	37427 57287	55796 53673	41377 47500	48676 49818	46168 48898	37331	46095 46095	19862 49133	61435 80935	35125 37463
0306 WANG THONG	135710	107850	122730	28509	61064	93119	47923	85744	53673	45232	52667	52048	69401	83853	102260	116720	49881
0307 BANG KRATHUM	21576	174596	43495	56337	41830	57628	47923	39424	53E73	48407	50369	49213	60950	46095	55873	39407	86578
0308 BANG RAKAM	80028	75983	82848	132673	73868	95425	47923	128241	53673	46366	52080	49948	71184	54128	95287	189395	64306
0309 NOEN MAPRANG	92771	41105	47538	56337	32616	30978	47923	19157	53673	41831	48305	50998	53338	46095	64070	82759	52415
0401 M. UTTARADIT 0402 FAK THA	61745	41105 45872	113015	51602	61036	109263	62937	- 119242 35143	102515 53673	157478 44099	123923 48602	13037 4 45328	114409 29348	244231 46095	142402 15036	174948 30288	95262 37896
0403 NRM PRT	27571 74211	41105	14175 30185	29137 32062	15971 24154	34822 56347	47923 47923	44406	53673	44552	48944	47848	34198	46095	27791	38759	36222
0404 THA PLA	21576	41105	35148	38789	28051	15732	51409	47127	55796	45459	48625	47113	41445	46095	36956	37459	38469
0405 LAPLAE	41522	43363	48577	33232	27801	42382	48254	32924	55796	49314	51340	50998	47826	46095	56516	53502	74719
0406 TRON	79751	41105	64605	74763	58948	94400	47923	66436 46919	55796 53673	51582 49541	51002	49633	38842 45917	45256 54423	59089	- 55149 66087	53606
0407 PHICHAI 0408 BAN KHOK	67285 21576	48532 41105	72510 6842	85000 19193	69804 12102	57500 15475	47923 47923	19157	53673	40924	53481 48308	52573 44173	27991	45095	69506 8138	28493	5 3369 3 3916
0501 M. PHRAE	36536	51141	95897	57800	65434	109135	47923	83677	85526	125505	92279	110215	102366	67679	112577	43835	75844
0502 SONG	83906	42359	64492	52535	52073	54297	374408	50982	53673	48180	52935	51733	50681	46095	64042	86325	44308
0503 RONG KWANG	36536	46123	63245	49026	35123	58653	48510	48880	55796	57251	53893	49528	47936	46095	56805		
0504 DEN CHAI 0505 LONG	21576 72826	41105 48532	27389 58457	28845		11247	47923 47927	74159 65847	53673 53673	55663 47953	54475 50382	55723 50578	43544 39039	79783 4E095	32133	30097 61035	49354 45077
0506 SUNG MEN	21853	42359	77792	36449 39959	48956 40410	59294 38025	47923 47923	45129	53673	58158	62513	5267B	66585	46095	52967 79485		103155
0507 WANG CHIN	76427	43614	47010	31477	27562	55066	88333	51690	55796	43872	48523	45273	32280	46095	38125		
0601 M. LAMPANG	110501	84389	9431	73301	138975	118104	49704	163694	115256	234576	201010	188225	175760	168099	178346	75206	75763
0602 WANG NUA	60637	41105	49305	31770.		€6982	54794	81525	53673	43872	48912	47008	34912	46095	43058	50207	44469
0603 CHAE HOM 0604 NGAO	89170 83075	76861 41355	83835 40222	42884 33333	35706	72363	93982	74711 34551	53673 53673	48860	49277	54148	45885	46095	71132		42352
DBO4 NGHO DBO5 HANG CHAT	30718	43514	40222 45590	33232 53120	31447 30306	73132 61472	65499 49959	50586	53673 - 53673 -	52942 49087	50600 55373	52783 49843	43470 48504	52174 46095	44869 44008		A1125 54043
0606 KO KHA	66454	49887	68934	40836	26492	82485	47923	57334	53673	54983	62999	53413	49592	93761	50949		71913
DEO7 MAE THA	30164	47378	72094	47271	45086	121307	55812	50341	55796	48180	51571	47008	40851	46095	63312		55028
DEOB SOP PRAP	45123	45496 40750	29952	27675	23681	53272	59374	51845	53673	44779	48787	46483	31482	46095	25722	2 9 007	52722
0609 THOEN 0610 MAE PHRIK	109392 73657	42359 44868	57946	50780	25574	91710	48534	77534	53673	52035	54471	56353	45488	46095	54527		41429
D611 SDEM NGAM	73657	57415	17432 25614	22703 24165		33797 52247	47923 99835	45993 43091	55796 55796	.48180 45366	48778 46528	46273 44173	29361 37376	46095 46095	15017 28857		42928 43516
0612 MAE MB	88616	41105	21857	18316		14707	89910	19157	53E73	4273B	48324	44173	31582	46035	22731		
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Appendix 3-6 POTENTIALS IN TERMS OF POPULATION SIZE: AMPHOE

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Criteria	Future La Potential	nd	Performance	ce of Major	Productive	Sectors	:	Level of U	rban Activi	ties/Service	2				Population	n Factor	
Indicators	Area of Unused Cultiva-	Area of Lands Planned	Number of Farm House-	Area of Farming Lands	Value of Crop Produc-	Value of Livestock Produc-		Urban Popula- tion	Physi-	Number of Teachers in Secon-	Amount of Electri- city	Number of Postal Marters	Non-agri- cultural Labor	Handling Freight Volume	Popula- tion Size	Popula- tion Increase	Popula- tion Density
	ble Lands	to be	holds		tion	tion	tion		District	dary	Con-		Force		1978	1972-78	1978
		Irrigated							Health	Schools	sumption						
Amphoe			•						Officers								
0701 M. NAN	32103	44743	107638	85292	57529	102088	47923	91949	89773	90811	75153	110635	78724	5E137	96709	79587	51628
0702 THUNG CHANG	26286	46374	13319	22995	30890	7916	47923	29856	55796	44552	48741	54883	30823	46389	13495	29821	36033
0703 CHIANG KLANG	26009	50138	35303	27383 34402	29944 53242	23803 68007	47923 47923		55795 53673	46820 50675	49337 49652	57193 56143	33840 40457	46095 46095	29648	26874	43274
0704 PUA 0705 THA WANG PHA	36536 42076	52396 42359	7091 7 48846	37619	35513	47122	47923		53673	46820	50045	47743	39933	46095	60795 41221	44469 44869	41855 50699
0705 MAE CHARIM	21576	50540	14670	17439	14273	10478	47923	37318	55796	41831	48306	44173	27936	46095	13350	32026	34992
0707 SA	80582	41105	50708	55167 26798	59533 30000	59150 27007	47923 47923		53673 5367 3	57251 47953	51363 48861	58873 51103	47426 38267	54932	57285	39607	40139
0708 NA NOI 0709 BAN LUANG	22685 43184	41105 43614	28108 8089	1831E	16583	11503	47923		55796	41831	48306	44173	29829	46095 46095	30723 10464	47797 30897	40433 38783
0710 NA MUEN	21576	41105	12626	17731	13326	8172	47923		53673	40924	48306	44173	32415	4E095	15593	37116	37179
0801 M. PHAYAD	116595	41105	128436	56337	76572	154741	49450	97719	64291	83101	68332	74517	140592	96841	128095	5E673	71217
0802 CHIANG KHAM	68670	54654	109742	42591	54801	116694	47923		55796	64280	53550	58138	92304	46550	99521	144805	64239
0803 PONG	90832	41105	42585	25628	35792	62882	47923		53E73	45232	49582	49318	40434	46095	35756	40840	37532
OBOS CHUN	54819 75319	41105 41105	13613 59505	20363 45516	25741 43778	23547 62625	47923 47923		55796 55796	42738 45459	48902 49703	44173 48058	29990 64173	46095 46095	17EE9 64490	32297 121444	41509 62922
0806 DOK KHAM TAI	68670	46123	82268	45516	46534	109366	47923	91027	55796	47273	51428	51418	55379	45095	71131	78325	62586
0807 MAE CHAI	42353	46123	38048	32062	41885	46738	47923	51820	55796	45459	49975	47113	48704	46095	36501	58930	74517
0901 M. CHIANG RAI	148730	41105	279305	71838	106770	179988	47923	147450	98267	135709	106279	151687	152337	98046	190999	169734	E6081
0902 MAE SAI	44292	138965	58717	. 48733	51266	38538	47923	111373	53573	56797	03583	57718	79070	49549	5251E	45964	96146
0903 CHIANG SAEN	37644	42108	41001	56922	35066	27519	47923		53673	45232	49823	48898	57750	4E095	45973	74283	58921
0904 CHIANG KHONG 0905 MAE CHAN	78089 53988	41105 41105	54179 102945	39666 95529	83110 76851	79153 108238	48305 47923		53673. 53673	46139 54529	51053 55549	57823 59083	54869 97823	47969 46095	56928 101339	47340 86416	48026 54088
0906 THOENG	93325	43112	146646	110152	86951	158207	48559		53673	52942	49994	61077	80959	46095	125305	115625	58292
0907 PA DAET	23793	41732	29294	45808	38629	15475	47923		55796	45006	48306	46168	35984	46095	24818	38921	72133
0908 PHAN 0909 MAE SUAI	82244 44292	41105 41105	159703 47010	71253 32647	217248 33256	160129 50069	47923 65609		53673 55796	73804 43418	56191 58360	64647 46798	119262 46005	52227 4E095	123770 41081	96744 57368	73206 39660
0910 WIANG PA PAD	30995	41105	59349	37619	56248	50447	137524	51657	53673	50448	51048	52258	72834	46095	60076	74363	48843
0911 WIANG CHAI	59528	41355	75679	53705	58113	61985	47,923	81773	55796	43192	48542	44173	55211	4E095	66713	73830	65225
1001 M. CHIANG MAI	22408	41105	19770	32647	. 63096	16500	47923	367067	550585	375392	454087	417637	276383	143569	172603	105963	457587
1002 MAE AI	44559	47001	48941	35279	59171	39435	47923		53673	46593	49245	44173	42898	46095	41037	57249	51122
1003 FANG 1004 CHIANG DAO	51772 83352	59987 53651	105716 57349	56337 29430	190999 71001	76335 51094	47923 52758		53673 53673	73124 47273	54022 50123	71997 50473	70147 53933	52816 46095	100703 50340	66378 68516	58344 37508
1005 MAE TAENG	36536	79998	54941	51365	75928	49044	58865	33830	53673	51128	53754	52363	60559	46095	57388	24278	45660
1006 PHRAO.	42907	57289	46629	40251	53409	59166	47923		53673	48860	49101	50368	51411	49924	44421	31664	44472
1007 SAMBENG 1008 MAE RIM	21576 36813	41983 44617	22896 43633	18316 28552	23458 37849	32900 35360	102379 47923		53673 55796	43192 50675	48551 -63036	45223 58978	32593 73780	46095 46095	17524 57744	32626 42545	36893 77455
1009 SAN SAI	34874	43614	64362	37619	61092	56219	47923		53673	49767	57949	50263	71765	46095	67132	31788	96530
1010 DOI SAKET	37090	241843	57946	31185	68357		47923		53673	47500	53652	51103	59503	46095	54152	22169	E2492
1011 SAN KAMPHAENG 1012 SARAPHI	36536 26009	50253 41105	54431 72995	53120 28260	95610 71502		47923 47923		55796 53673	60425 57251	59803 63258	54463 _52363	28800 62171	46095 48773	77563 61763	38650 26159	76036 234240
1013 HANG DONG	21575	42547	54006	34402	51572		57084		55796	43418	51492	49213	61286	46095	54209	44326	102662
1014 SAN PA TONG	21576	53400	98365	50780	95107	84022	47923	58944	53673	62693	57533	56878	98407	45 095	101708	60354	82749
1015 CHOM THONG 1016 MAE CHREM	21576 21853	77112 48193	8897 0 37286	50195 20071	114035 17056	87866 61344	47923 88129		53673 53673	52942 44552	51048 48546	55093 44173	60756 33785	51370 46095	73641 35354	52973 47250	50664 34765
1017 HOT	45123	€2998	25788	22118			48686		53673	43645	48939	48688	42543	49630	30419		40567
1018 OMKOI	122413	47754	26203	18316					55796	42985	48412	44173	32322	4E095	20480	14955	33846
1019 DOI TAO	63884	107599	33689	25920	38907	58269	345416	43124	55796	42738	48306	44173	32577	46095	21356	32088	35946
1101 M. MAE HONG SON	75319	51217	19718	23580	21649	32003	49323		521 67	48180	53791	56773	51775	46122	28996	27240	
1102 PAI	32934	41105	21043	19486	21065		95127		53673	44552	48583	45378	38051	46095	15071		33119
1103 KHUN YUAM 1104 MAE LA NOI	50941 38475	45069 42108	15778 22818	18316 26798		15988 25341	48941 68026	The same of the con-	53673 · 55796	43418 41831	48735 48505	44173 45853	36323 34230	46122 46095	14784 18337		
1105 MAE SARIANG	22685	44555	46560	54583					53673	52262	51317	52468	57924	46657	49958		
1201 M. LAMPHUN	47617	45032	116104	FOETE	100747	15517	A.77000	612 91 .	72785	105323	115588	143393	93931	77105	140740	01570	117838
1201 M. CHIPHON 1202 MAE THA	52049	43488	115124 40282	52535 23873	122747 41273		47923 140550		53673	45459	48556	48478	38106	46095	140749 33082		
1203 PA SANG.	51218	41105	82944	40544	145210	69288	47923	42314	55796	47953	58259	61077	47955	46095	72597	33159	103742
1204 BAN HONG 1205 LI	65346 163966	46136 49448	46906 50077	25528					55796 53673	51128 48180	51391 49212	49528 51103	38600 34014	46095 46764	39576		
1205 CT 1206 THUNG HUA CHANG	49556	44743	59037 17371	23873 15976			102558 47923		53673	40924	49212 48306	44173	28524	46095	44486 12457		
			21.21.4		14005	, ,,	-91-24-								12401	. 0000	

Appendix 3-6 POTENTIALS IN TERMS OF POPULATION SIZE: AMPHOE

Criteria	Future Lar Potential	nd	Performance	e of Major	Productive	Sectors		Level of [rban Activii	ties/Servic	e				Population	Pactor	
	Area of	Area of	Number of	Area of	Value of	Value of	Value of	Urban	Number of	Number of	Amount of	Number of	Non-agri-	Handling	Popula-	Popula-	Popula-
	Unused	Lands	Farm	Parming	Crop	Livestock	Minine	Popula-	Physi-	Teachers	Electri-	Postal	cultural	Freight	tion	tion	tion
Indicators	Cultiva-	Planned	House-	Lands	Produc-	Produc-	Produc-	tion	cione und	in Secon-	city	Matters	Labor	Volume	Size	Increase	Density
<u>\</u> .		•		Lains	•			LLON				1.actera		TO Lame			·
	ble Lands	to be	holds		tion	tion	tion		District	dary	Con-		Porce		1978	197278	1978
		Irrigated					4 1 1 1		Health	Schools	sumption						
Amphoe								·	Officers					·			
1301 M. TAK	182526	44116	70839	36449	74174	160129	57338	83415	77032	108498	93639	92471	95356	78149	76649	83720	43902
1302 THA SONG YANG	21576	41105	18021	23288	34927	20728	197297	39543	55796	42058	48560	44173	29051	45095	15384	25907	33381
1303 MAE RAMAT	52049	42986	31987	31770	33535	17013	47923	43127	53673	43872	49305	45853	33249	46095 46095	28321	52797	36247
1304 SAM NGAD	121858	41105	19354	35279.	35845	34438	47,923	46813	53573	45006 46820	49272 48371	47323 48478	44031 48033	46095	24595	37631	34831
1305 BAN TAK	163689	43237	27078	30892	73506 73284	85560 80307	79223 80750	46903 77118	53673 55796	468∠u 65867	64942	54547	64315	64840	37904 64468	31435 70116	41338 45248
1306 MAE SOT	22685 179202	42359 41105	55219 8842	61894 16854	17390	3816	107723	31942	55796	42511	48500	44173	30772	46095	10131	70116 29726	45248 31361
1307 UMPHANG 1308 PHOP PHRA	70609	41105	7465	30892	44641	3303	47923	19157	53 673	40924	48408	44173	31689	46095	9010	29097	34052
1401 M. SUKHOTHAI	21576	41105	88624	89387	43472	91197	47923	85287	83403	77886	78154	82181	98721	86772	101960	65064	111797
1402 SI SATCHANALAI	30718	41995	82658	127408	95830	66597	55252	40290	53673	54756	52718	53623	50797	46095	77417	71759	43840
1403 THUNG SALIAM	35950	41105	44239	77980	57195	15347	56829	52930	55796	52035	50073	49528	37515	49710	37643	51492	55504
1404 SWANKHALOK	21575	128928	87446	. 105473.	72254	35591	47923	53564	55796	70856	58652	69267	74946	91431	88002	79982	100685
1405 SI SAMRONG	21576	45621	70051	98453	55413	28160	47923	42820	55796	62919	65344	58348	55350	46095	63899	53240	91477
1406 KONG KRAILAT	42630	41105	58232	67159	47953	57628	47923	32058	53673	46593	<i>20068</i>	49318	39998	46095	57556	48559	79100
1407 KHIRI MAT	64238	41105	41728	56630	25128	39819	47923	56858	53673	44552	49948	48688	39682	53861	42154	34326	54626
1408 BAN DAN LAN HOI	240701	41105	21848	35572	24460	36103	47923	33470	55796	42738	49064	46168	35041	46095	24390	37350	36219
1409 SI NAKHON	22408	44868	30931	51658	20981	6507	47923	79078	53673	46593	49864	44173	35325	46095	28340	40954	76274
1501 M. KAMPHAENG PHET	138757	150884	204200	173326	183428.	95041	48839	79865	72785	92625	84403	78401	162668	347757	175540	243109	67084
1502 PHRAN KRATAI	157040	<u>e</u> 2e88	56258	68329	62818	65444	47923	81194	55796	48634	51733	49003	62219	51049	55384	105568	47236
1503 KHLONG KHLUNG	95818	185385	103958	185318	178445	54425	47923	71593	53673	62466	52649	50158	112416	125431	105379	82263	49525
1504 KHANU WORALAKSABURI	104129	128928	106391	160165	128509	75694	47923	51025	55796	68362	56728	49318	104546	161511	105053	132010	59340
1505 SAI NGAM	54542	154020	41391	73886	65128	11760	47923	76076	53673	42058	48306	44173	55586	46095	37610	69664	55912
1506 KLONG LAN	74488	85016	21328	60139	47870	1638	47923	19157	53673	40924	48306	44173	45837	46095	24048	52640	35890
1507 LAN KRABU	38198	42986	27104	67451	50E74	28032	47923	19157	53673	40924	48620	44173	43182	4E095	25959	61 406	53837
1601 M. UTHAI THANI	42353	41105	33165	36157	33590	31491	47923	73551	74908	83101	59048	67167	71339	38608	46995	33583	98218
1602 SAWANG AROM	36536	41105	23320	56922	49095	19960	47923	31410	55796	43872	49189	45748	32170	46925	20151	44345	50363
1603 THAP THAN	35982	41105	36524	58677	50347	43663	47923	29654	53673	49541	49753	47323	39197	46095 46095	31881	22731	62649
1604 NONG KHAYANG	24347	85016 85700	17510	42299	37265	26494	47923	28831	55796	44779	48889	45643 51208	33875 48088	49121	16303	4074	63757
1605 NONG CHANG	30164 165905	95308 43514	46508	62187	53052	39591.	47923	34118 41428	53673 55796	57704 44325	51765 48630	46588	37841	105276	43624 59855	25897 150777	76553 . 35750
1606 BAN RAI	51218	41105	73471 40940	126238 95292	131098 55052	24957	112304 52503	19157	53573	40924	48394	44173	31653	46095	27517	81449	38745
1607 LAN SAK	- 1 ·					7147											
1701 M. PHETCHABUN	96372	55160	148100	161627	101258	225098	47923	84421	74908	90357	69844	102130	135199	95287	147599	129829	51510
1702 LDM KAO	52603	59924	38897	75641	50932	56603	47923	58034	53673	60879	51247	50998	53816	46095	53949	E1059	46506
1703 LOM SAK	31272 22408	61178	119042	144079	120966	169354	47923		53673	72570	65497 50000	120294	129516	51611 83987	144888	145291	73255
1704 NONG PHAI	22408 21576	41105 47378	159651	165430	114619	74541	48330	83548	53673	64280	58286	54358	79235	111522	103943	114196	62611
1705 WICHIAN BURI 1706 CHON DAEN	198317	47578 43614	133112	271012	153700	71466	47923	79161	53673	71763	52737	55408 53098	54924 72718	47702	86350	105411	48585
1706 CHON DHEN 1707 SI THEP	69501	41105	84952 56015	98405	67160 58058	111185 39947	48686		53673 55796	52035 54303	53532 50401	23098 48688	43030	53593	95923	195024	47820 51485
1708 BUNG SAM PHAN	21853	44868	79307	88217 121559	28U38	20032	47923 47923	7E853	55796	58158	49277	50473	56568	52522	50351 59359	37816 74825	51465 60018
1709 NAM NAD	55650	41105	3292	22411	21287	-540	47923		53673	40924	48306	44173	32238	45095	11503	74825 30678	35069
A S MAN TALLET PACENT	55555		ما در پاکستان	×.v.+ i i	21201	540	47323	*****	J3G13	40324	40306	H#113	02200	-5555	11303	- Juo76	22003

Appendix 3-7 INDICATORS USED FOR ESTIMATING AREA
POTENTIALS AT AMPHOE AND CHANGWAT LEVEL

Description	Amphoe Level	Changwat Level
Future Land Potential	• Area of Unused Cultivable Lands	Area of Unused Cultivable Lands
	• Area of Land Planned to be Irrigated	be Irrigated
ن نبيج علمة ويدم لربي وسم 1923 كلمة الكلك 2021 كلمة الكلك ويون فيمي نبعة يستفر علمة علم حجو طبيع ما		
Performance of Major Productive Sectors	Number of Farm Households	
	• Area of Farming Lands	• Area of Farming Lands
	• Value of Crop Production	• Value Added in Crop Production
	Value of Livestock Production	
	• Value of Mining Production	 Value Added in Mining Production
Levels of Urban Activities/Services	 Urban Population Number of Physitians and Distinct Health Officers 	 Urban Population Value Added from Urban Service Sectors, viz., transportation
	Number of Teachers in Secondary Schools	and communications; banking, insurance and real estate; public administration and defense; and services.
	 Amount of Electricity Consumption 	
	Number of Postal Matters	
	• Non-agricultural Labour Fource	
	• Handling Freight Volume	
and disk appropriate and any any any any and and all the side had been the tips for him, any step side is	th from som som som som som sign ava pop aten (** mår flyt den fra som frem som som som som som fre som aten som	
Population Factor	Population Size	Population Size
	• Population Increase	• Population Increase
	• Population Density	
· · · · · · · · · · · · · · · · · · ·	and the second s	

Appendix 5-1 ACCESSIBILITY CALCULATION SHEET

		Node Pa	ir					Exix	ting Roa	d		,	Ideal Road
No.	Ai	mphoe A	Amg	phoe B	Description			Link N	O •	Markan Mahanga - warangan manggan anggangangang	Lengt Surface		
	Code No.	Name	Code No.	Name		1	2	3	4	5	Surface Type	Length (Km)	Length (km)
						1070		2003	3005	2005	15 15	F0 6	
					Road No. Surface Type	1072 P.R.	1 P.R.	3001 P.R.	3005 P.R.	3005 L.R.	P.R. L.R.	53.6 4.5	
1.	0102	Lat Yao	0106	Krok Phra	Road Length (km)		16.9	4.2	10.0	4.5	E.R.		
		· .		NAME OF THE CASE AND THE STATE	yeli Mila yaye sina yaya yang laya yang laya yaka Man dala kilar ada amin bili						Total	58.1	36.0
					Road No.	3013	1197	1139	1117	1117	P.R.	33.0	
	01.00				Surface Type	P.R.	P.R.	L.R.	P.R.	E.R.	L.R.	52.0	•
2.	0102	Lat Yao	1307	Umphang	Road Length (km)	3.0	25.0	52.0	5.0	84.4	E.R. Total	84.4	104.5
			man and Data was seen taken from the cond many the time to	O this this som your own two Mas come now were new than the	لله يستم مهم عليه الله علي شن جي شن جي سن بين من الله عليه الله عليه الله عليه الله الله الله الله الله الله ا						TOCAL	103.4	TO4.3
					Road No.		. 1	1074			P.R.	26.4	
3.	0102	Lat Yao	1504	Khanuwora Laksa Buri	Surface Type Road Length (km)		P.R. 17.1	P.R. 9.3			L.R. E.R.	22.5	
٠,	0.102	•	•		Road Length (Kill)	22.0	17.11	2.3			Total	48.9	35.0
	and the tree that the time and the time and	~		D ESTS MAN STAL FOR MAIN SHEET, THE STAR WAY MAN SHEET		1.0		2012			· · · · · · · · · · · · · · · · · · ·		
		•	•		Road No. Surface Type	L.R.	1197 P.R.	3013 P.R.			P.R. L.R.	28.0 29.0	
4.	0102	Lat Yao	1607	Lan Sak	Road Length (km)		25.0	3.0			E.R.	23.0	
							· · · · · · · · · · · · · · · · · · ·				Total	57.0	41.0
					Road No.	1182	1118	1			P.R.	73.3	·
		Banphot			Surface Type	P.R.	P.R.	P.R.			L.R.		
5.	0103	Phisai	0105	Chumsaeng	Road Length (km)	34.1	38.3	0.9			E.R. Total	73.3	35.0
										**** *** *** *** *** ***			1-00 PTD PTD 1001 HER 7001 AND 1001 TALL AND
		Banphot			Road No. Surface Type	1073 E.R.			4		P.R.		
6.	0103	Phisai	0205	Pho Thale	Road Length (km)						L.R. E.R.	47.5	
					2017					•	Total	47.5	34.5
				man all and the same party many party many party many many many many many many many.	Road No.	1073	1	1074			P.R.	38.3	
		Ban Phot		Khanuwora	Surface Type	P.R.	P.R.	P.R.	* * - * * * * * * * * * * * * * *		L.R.		e e e
7.	0103	Phisai	1504	Laksa Buri	Road Length (km)	11.9	17.1	9.3			E.R.		
		·	÷.								Total	38.3	19.0
Ann 1000 /					Road No.	3004	31004	11	2184	1.119	P.R.	67.0	
_	0105				Surface Type	P.R.	I.R.	P.R.	P.R.	P.R.	L.R.	5.0	
8.	0105	Chumsaeng	0109	Tha Tako	Road Length (km)	5.0	50	27.0	3.0	32.0	E.R.	70.0	35.0
				يتن جين مين مين مين مين مين مين مين مين مين م	منطقة المجال		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	: 			Total	72.0	22.0
					Road No.	1118	1118	1067			F.R.	23.3	•
9.	0105	Chumsaeng	0205	Pho Thale	Surface Type Road Length (km)	E.R.	F.R. 7.0	P.R.	b.	7	L.R.	12.0	
- •			JH03	m name i de di Adelida Sul			/ . U	16.3			E.R. Total	$\frac{1.2.0}{35.3}$	22.0
* PRE 1727 1	من والله المن المن المن المن المن المن المن المن	***			Road No.		2 20A	201		errag prakj artik gene errag store erdik 627	ъ в	21 6	
						3319 P.R.	3.220 L.R.	333 P.R.	1 P.R.		P.R. L.R.	21.6 18.0	
0,	0106	Krok Phra	0107	Phayuha Khiri	Road Length (km)		18.0	15.6	2.0		E.R.	- 7 • 7	
					en e					•	Total	39.6	14.0

Note: 1/ Surface Type P.R.: Paved Road L.R.: Laterite Road

E.R.: Earth Road

	1. 10 10 11	te	/7 /0		/1 /2 /3 /6	/ <u>5</u> / <u>6</u>	/7 /8
SEQ LINK NAME	TE TI R S	0F De /6	DIJ GRAVITY	SEQ LINK NAME	TE TI R 5	7 <u>5</u> 7 <u>6</u> UP DP	DIJ GRAVITY
A-1 0102 LAT YAO - 0106 KROK PHRA	0,8 0,51.69 0.3	122000 28000	3E 5E3E	A. 85 0602 WANG NUA - 1010 DOI SAKET	0.9 0.6 1.61 0.4	41000 84000	47 1559
2 0102 LAT YAO - 1307 UMPHANG 3 0102 LAT YAO - 1504 KHANU WORALAKSA	5.7 1.3 4.34 4.4 0.8 0.4 1.78 0.3	122000 46000 122000 130000	105 514 35 12947	87 0603 CHAE HOM - 0604 NGAO 88 0603 CHAE HOM - 1011 BAN KAMPHAENG	1.7 0.6 3.06 1.2 2.1 0.5 3.85 1.5	68000 41000 68000 60000	45 1377 44 2156
4 0102 LAT YAO - 1607 LAN SAK	0.9 0.5 1.81 0.4	122000 35000	41 2540 35 4577	89 0603 CHAE HOM - 1202 MAE THA	1.3 0.7 1.86 0.6	68000 37000	55 832
5 0103 BANPHOT PHISAI - 0105 CHUMSAENG 5 0103 BANPHOT PHISAI - 0205 PHO THALE	0,9 0,42,09 0,5 2,4 0,45,51 1,9	89000 93000 89000 E3000	35 4577 35 6879	90 0604 NGAO - 0804 CHIANG MUAN 91 0606 KO KHA - 0607 MAE THA	1,2 0,5 2,69 0.8 0.3 0,2 1,86	41000 19000 55000 45000	36 601 14 12628
7 0103 BANPHOT PHISAI - 1504 KHANU WORALAK		89000 130000	. 19 32050	92 0606 KB KHA - 0611 SBEM NGAM	0.4 0.2 2.14	55000 38000	14 10663
8 0105 CHUMSAENG — 0109 THA TAKO 9 0105 CHUMSAENG — 0205 PHO THALE	0,9 0,42,14 0.5 0,9 0,33,24 0,8	63000 80000 63000 92000	35 4114 22 11975	93 0607 MAE THA - 0608 SOP PRAP 94 0608 SOP PRAP - 0611 SOEM NGAM	0.7 0.4 1.87 0.3 1.1 0.4 3.04 0.7	45000 27000 27000 38000	32 1187 28 1309
10 0106 KROK PHRA - 0107 PHAYUHA KHIRI	0.6 0.23.60 0.5	26000 £1000	14 8714	95 0608 SOP PRAP - 1206 THUNG HUA CHANG	1.7 0.4 3.99 1.3	27000 13000	35 287
11 0106 KROK PHRA - 1801 M. UTHAI THANI 12 0107 PHAYUHA KHIRI - 0108 TAKHLI	0.4 0.2 1.73	26000. 45000 61000 96000	19 3490 33 5377	96 0609 THŒEN - 1206 THUNG HUA CHANG 97 0609 THŒEN - 1402 SI SATCHANALAI	1.3 0.6 2.35 0.8 2.9 0.7 4.26 2.2	55000 13000 55000 59000	45 353 55 1073
13 0107 PHAYUHA KHIRI - 0109 THA TAKO	0.9 0.5 1.81 0.4	61000 80000	40 3050	98 0609 THOEN - 1403 THUNG SALIAM	1.9 0.6 3.25 1.3	55000 32000	48 764
14 0107 PHAYUHA KHIRI - 0112 TAK FA 15 0109 THA TAKO - 0112 TAK FA	0.8 0.5 1.5E 0.6 0.4 1.67	61000 31000 80000 31000	42 1072 31 2581	99 0609 THOEN - 1408 BAN DAN LAN HOI	1.8 1.0 1.92 0.9	55000 65000	77 612
15 0110 PHAISALI - 0111 NONG BUA	0.7 0.4 1.77	75000 65000	31 5073	100 0610 MAE PHRIK - 1205 LI 101 0610 MAE PHRIK - 1304 BAM NGAD	1.0 0.6 1.73 0.4 1.2 0.3 4.41 0.9	24000 67000 24000 40000	46 760 22 1983
17 0110 PHAISALI - 1705 WICHIAN BURI	1.0 0.6 1.57 0.4	75000 96000 65000 89000	51 2768 29 6879	102 0511 SOEM NGAM - 1202 MAE THA	1.4 0.5 2.58 0.9	38000 37000	43 760
18 0111 NONG BUA - 0204 BANG MUN NAK 19 0111 NONG BUA - 1706 CHON DAEN	1,1 0,43,00 0,7 0,8 0,61,44	£5000 121000	47 3560	103 0703 CHIANG KLANG - 0802 CHIANG KHAM 104 0705 THA WANG PHA - 0709 BAN LUANG	1.4 0.8 1.72 0.6 1.1 0.5 2.04 0.6	20000 85000 32000 11000	56 395 44 186
20 0202 SAM NGAM - 0206 PHO PRATHAP CHA	0.4 0.3 1.38	74000 45000	26 5121	105 0705 THA WANG PHA - 0803 PONG	1.8 0.7 2.58 1.1	32000 41000	57 404
21 0202 SAM NGAM - 0307 BANG KRATHUM 22 0202 SAM NGAM - 1507 LAN KRABU	0.5 0.2 3.24 0.4 1.1 0.4 2.42 0.5	74000 73000 74000 31000	13 31964 35 1873	106 0706 MAE CHARIM - 0707 SA	0.8 0.4 1.93 0.4	9000 51000	32 448
23: 0203 TAPHAN HIN - 0205 PHO THALE	0.5 0.3 1.64	123000 92000	22 23380	107 0708 NA NOI - 0710 NA MUEN 108 0801 M. PHAYAO - 0907 PA DAET	0.5 0.3 2.00 0.6 0.5 1.25	19000 7000 . 108000 24000 .	20 332 36 2000
24 0203 TAPHAN HIN - 0206 PHO PRATHAP CHA 25 0203 TAPHAN HIN - 0207 WANG SAI PHUN	0.9 0.2 4.73 0.7	123000 45000 123000 25000	15 24600 26 4549	109 0802 CHIANG KHAM - 0803 PONG	1.0 0.5 1.82 0.4	86000 41000	42 1999
26 0204 BANG MUN NAK - 1706 CHON DAEN	0.9 0.7 1.28	89000 121000	54 3693	110 0802 CHIANG KHAM - 0906 THOENG 111 0803 PONG - 0806 DOK KHAM TAI	0.4 0.3 1.45 0.8 0.4 2.27 0.4	86000 105000 41000 64000	20 22575 28 3347
27 0205 PHO THALE - 0206 PHO PRATHAP CHA	0.9 0.3 3.03 0.6	92000 45000	24 7497	112 0804 CHIANG MUAN - D806 DOK KHAM TAI	0.9 0.6 1.71 0.4	19000 64000	44 628
28,0203 PHO THALE - 1504 KHANU WORALAKSA 29,0206 PHO PRATHAP CHANG - 1503 KHLONG KHL	1.2 0.5 2.21 0.7 2.6 0.8 3.30 1.8	92000 130000 45000 137000	43 6468 64 1505	113 0805 CHUN - 0806 DOK KHAM TAI	0.4 0.3 1.43	62000 64000	24 7185
30 0206 PHO PRATHAP CHANG - 1505 SAI NGAM	0.9 0.6 1.43	45000 69000	48 1348	114 0805 CHUN - 0906 THOENG 118 0808 CHUN - 0907 PR DAET	0.7 0.5 1.42 0.7 0.3 2.49 0.4	62000 105000 62000 24000	40 4069 22 3074
31 0207 WANG SAI PHUN - 0309 NOEN MAPRANG 32 0207 WANG SAI PHUN - 1706 CHON DAEN	0,5 0,3 1,65 0,9 0,5 2,01 0,5	25000 51000 25000 121000	20 3187 36 2334	116 0807 MAE CHAI - 0907 PA DAET	1.0 0.3 3.24 0.7	38000 24000	24 1583
33 0302 PHROM PHIRAM - 0303 WAT BOT	1.3 0.2 6.99 1.1	5500 0 7 0000	15 17111	117 0901 M. CHIANG RAI - 1003 FANG 118 0902 MAE SAI - 0903 CHIANG SAEN	2.1 0.8 2.70 1.3 0.8 0.4 2.20 0.4	173000 83000 74000 38000	63 3618 28 3597
34 0302 PHROM PHIRAM - 1405 SI SAMRONG 35 0303 WAT BOT - 0304 CHAT TRAKAN	0.8 0.5 1.79 0.4 1.8 0.6 3.23 1.2	55000 49000 70000 35000	37 1969 44 1265	119 0903 CHIANG SAEN - 0904 CHIANG KHONG	0.9 0.4 2.11 0.5	38000 53000	34 1742
36 0303 WAT BOT - 0306 WANG THONG	0.4 0.3 1.64	70000 113000	22 17112	120 0304 CHIANG KHONG - 0905 MAE CHAN 121 0904 CHIANG KHONG - 0911 WIANG CHAI	1,3 0.7 1.84 0.6 1.5 0.8 2.01 0.8	53000 75000 53000 56000	56 1269 63 748
37 0303 WAT BOT - 0407 PHICHAI 38 0304 CHAT TRAKAN - 0306 WANG THONG	1.5 0.5 3.13 1.1 1.4 0.7 2.17 0.8	70000 61000 35000 113000	42 2479 53 1408	122 0905 MAE CHAN - 1002 MAE AI	1,7 0,8 2,24 0.9	75000 38000	61 766
39 D3D4 CHAT TRAKAN - 0403 NAM PAT	1.7 0.7 2.68 1.1	35000 31000	52 401	123 0906 THOENG — 0907 PA DAET 124 0906 THOENG — 0908 PHAN	0.5 0.3 2.03 0.8 0.6 1.27	105000 24000 105000 116000	20 6300 48 5286
40 0304 CHAT TRAKAN - 0406 TRON 41 0305 NAKHON THAI - 0306 WANG THONG	1.3 0.7 1.85 0.6 1.0 0.7 1.45 0.3	35000 59000 66000 113000	57 E47 54 2558	125 0908 PHAN - 0909 MAE SUAI	0.6 0.3 2.14 0.3	116000 34000	23 7456
42 0305 NAKHON THAI - 1702 LOM KAO	1,3 0,6 2.07 0.7	66000 49000	50 1294	126 0906 PHAN - 0910 WIANG PA PAO 127 0909 MAE SUAI - 1003 FANG	1.2 0.5 2.58 0.7 1.2 0.6 2.13 0.6	116000 51000 34000 93800	35 45E5
43 0305 NAKHON THAI — 1703 LOM SAK 44 0306 WANG THONG — 0307 BANG KRATHUM	i.i 0.7 1.54 0.4 0.8 0.4 2.03 0.4	66000 116000 113000 73000	55 2531 30 9166	128 0909 MAE SUAI - 1006 PHRAD	3.1 0.6 5.09 2.5	34000 37000	44 1458 49 524
45 0306 WANG THONG - 0309 NOEN MAPRANG	0.7 0.5 1.58	113000 73000	36 4447	129 0910 WIANG PA PAG - 1006 PHRAG	2.7 0.4 E.68 2.3	51000 37000	32 1843
4E 0307 BANG KRATHUM - 0308 BANG RAKAM	0.6 0.4 1.76	73000 106000	29 9201 26 6899	130 0910 WIANG PA PAO - 1010 DOI SAKET 131 1004 CHIANG DAO - 1006 PHRAO	1,0 0,8 1,31 0,8 0,3 2,48 0,5	51000 84000 53000 37000	64 1062 25 3138
47 0308 BANG RAKAM - 1406 KONG KRAILAT 48 0308 BANG RAKAM - 1407 KHIRI MAT	0.7 0.3 2.07 0.3 1.1 0.5 2.46 0.7	106000 44000 106000 36000	26 6899 37 2787	132 1004-CHIANG DAU - 1102 PAI	1.8 0.7 2.60 1.1	53000 17000	54 309 、
49 0309 NOEN MAPRANG - 1701 M. PHETCHABUN	1.8 0.7 2.38 1.0	51000 138000	59 2022	133 1005 MAE TAENG - 1005 PHRAO 134 1005 MAE TAENG - 1102 PAI	1,1 0.5 2,36 0.7 1,4 0.7 1,90 0.7	47000 37000 47000 17000	39 1143 59 230
50 0309 NOEN MAPRANG - 1703 LOM SAK 51 0309 NOEN MAPRANG - 1706 CHON DAEN	2.1 0.9 2.43 1.2 1.1 0.6 1.88 0.5	51000 116000 51000 121000	69 1243 48 2678	135 1006 PHRAD - 1009 SAN SAI	1.1 0.8 1.41 0.3	37000 46000	60 473
52 0401 M. UTTARADIT - 0504 DEN CHAI	0.6 0.5 1.26	129000 21000	40 1693	136 1007 SAMBENG - 1102 PAI 137 1008 MAE RIM - 1009 SAN SAI	2,1 0.8 2,63 1.3	17000 17000	63 73
53 0401 M. UTTARADIT — 1409 SI NAKHON 54 0402 FAK THA — 0408 BAN KHOK	0.6 0.4 1.56	129000 25000	32 3149	138 1009 SAN SAI - 1010 DOI SAKET	0.3 0.2 1.65 0.2 0.1 1.77	39000 46000 46000 84000	13 10615 11 31934
55 0402 FAK THA - 0708 NA NOI	0.9 0.3 3.13 0.6 2.1 0.5 4.29 1.6	13000 4000 13000 19000	22 107 40 154	139 1010 DOI SAKET - 1011 SAN KAMPHAENG	0.3 0.2 1.37	84000 E0000	16 19688
56 0403 NAM PAT - 0404 THA PLA	0.8 0.4 1.87 0.4	31000 19000	34 510	140 1011 SAN KAMPHAENG — 1012 SARAPHI 141 1012 SARAPHI — 1013 HANG DONG	0.3 0.1 2.20 0.4 0.2 2.35	60000 E0000 60000 39000	10 38000 15 10400
57 0403 NAM PAT - 0406 TRON 58 0403 NAM PAT - 0710 NA MUEN	1.5 0.9 1.74 0.6 3.2 0.6 5.30 2.6	31000 59000 31000 7000	68 396 48 94	142 1014 SAN PA TONG - 1016 MAE CHREM	1.2 0.7 1.74 0.5	66000 26000	57 528
59 0404 THR PLA - 0504 DEN CHAI	0.9 0.51.81 0.4	19000 21000	40 249	143 1015 CHOM THONG - 1016 MAE CHAEM 144 1015 CHOM THONG - 1204 BAN HONG	1.1 0.4 2.76 0.7 0.4 0.2 1.57	63000 26000 63000 62000	33 1504 19 10820
50 0404 THA PLA - 0710 NA MUEN 61 0406 TRON - 0407 PHICHAI	2.8 0.5 5.38 2.3 0.5 0.3 1.89	19000 7000 59000 £1000	42 75 22 7436	145 1016 MAE CHAEM - 1017 HOT	0.9 0.6 1.63 0.3	26 000 29000	44 399
62 0405 TRON - 1409 SI NAKHON	0.7 0.3 2.06 0.4	59000 25000	27 2023	146 1016 MAE CHAEM - 1102 PAI 147 1016 MAE CHAEM - 1103 KHUN YUAM	3.7 1.2 3.07 2.5 4.1 0.7 5.60 3.3	25000 17000 25000 17000	96 48 58 131
63 0407 PHICHAI — 1404 SWANKHALÖK 64 0407 PHICHAI — 1405 SI SAMRONG	0.5 0.4 1.44 0.7 0.3 2.28 0.4	61000 26000 61000 49000	28 5691 26 4422	148 1016 MAE CHAEM - 1104 MAE LA NOI	3,1 0.6 5.25 2.5	26000 21000	48 237
65 0407 PHICHAI - 1409 SI NAKHON	0.3 0.21.70	61000 25000	14 7781	149 1015 MAE CHAEM - 1105 MAE SARIANG 150 1017 HOT - 1018 OMKOI	2.9 0.7 3.92 2.2 1.4 0.7 2.13 0.7	26000 50000 29000 43000	59 373 52 461
66 0408 BAN KHOK - 0708 NA NOI 67 0501 M. PHRAE - 0708 NA NOI	2.0 0.6 3.07 1.3 1.6 0.8 1.98 0.8	4000 19000 80000 19000	51 29 65 360	151 1017 HOT - 1204 BAN HONG	0.6 0.3 1.68	29000 62000	26 2660
68 0501 M. PHRAE - 0710 NA MUEN	2.1 0.7 3.12 1.4	80000 7000	54 192	152 1018 OMKOI - 1105 MAE SARIANG 153 1018 OMKOI - 1205 LI	1.7 0.8 2.27 1.0	43000 50000	60 597
69 0502 SONG - 0503 RONG KWANG 70 0502 SONG - 0505 LONG	0.4 0.3 1.47 1.1 0.7 1.56 0.4	88000 41000	20 9020	154 1018 OMKOI - 1302 THA BONG YANG	2.2 0.8 2.85 1.5 6.4 0.8 8.11 5.6	43000 67000 43000 25000	63 726 63 271
71 0502 90NG - 0604 NGAO	0.6 0.5 1.38	88000 48000 88000 41000	57 1300 37 2636	155 1018 BMKBI — 1383 MAE RAMAT	8,5 1,2 7,28 7,3	43000 26000	93 129
72 0502 SONG - 0612 MAE MO	1.4 0.5 2.76 0.9	88000 28000	41 1466	156 1018 0MK01 - 1304 SAM NGAO 157 1019 DDI TAO - 1205 LI	6.0 1.1 5.32 4.9 0.6 0.3 1.86	43000 40000 73000 67000	90 212 24 8491
73 0503 RONG KWANG - 0708 NA NOI 74 0503 RONG KWANG - 0709 BAN LUANG	1.2 0.6 2.22 0.7 1.2 0.8 1.56 0.4	41000 19000 41000 11000	45 385 61 121	158 1105 MAE SARIANG - 1302 THA SONG YANG	5.2 1.3 3.88 3.9	50800 25000	107 109
75 0504 DEN CHAI - 0505 LONG	0.8 0.32.46 0.5	21000 48000	25 1613	159 1203 PA SANG - 1205 THUNG HUA CHANG 160 1205 LI - 1206 THUNG HUA CHANG	1.3 0.8 1.73 0.6	62000 13000 67000 13000	60 224
76 0504 DEN CHAI - 0507 WANG CHIN 77 0504 DEN CHAI - 1402 SI SATCHANALAI	0.8 0.6 1.32	21000 41000	50 344	161 1205 LI - 1206 THONG HOH CHANG	0.4 0.3 1.45 1.6 0.8 2.13 0.8	67000 13000 67000 40000	24 1512 EO 744
76 0505 LONG - 0601 M. LAMPANG	1.0 0.7 1.38 0.8 0.6 1.39	21000 59000 48000 150000	58 368 44 3719	162 1301 M. TAK - 1506 KLONG SAN	1.5 0.9 1.63 O.E	108000 41000	75 787
79 0505 LONG - 0607 MAE THA	0.8 0.5 1.58	48000 45000	39 1496	163 1302 THA SONG YANG - 1303 MAE RAMAT 164 1303 MAE RAMAT - 1304 SAM NGAO	2.1 0.5 3.94 1.5 5.8 0.8 7.57 5.0	25000 26000 26000 40000	. 42 368 61 279
80 0505 LONG - 0612 MAE MO 81 0507 WANG CHIN - 0607 MAE THA	1.4 0.4 3.25 1.0 0.8 0.4 2.10 0.4	48080 22000 41000 45000	34 1163 30 2050	165 1303 MAE RAMAT - 1305 BAN TAK	1.7 0.8 2.18 0.9	26000 65000	61 454
82 0507 WANG CHIN - OEO8 SOP PRAP	1.5 0.4 3.43 1.1	41000 27000	35 / 904	166 1384 SAM NGAO - 1305 BAN TAK	0.6 0.3 1.96	40000 65000	25 4160
83 0507 WANG CHIN - 0609 THOEN 84 0507 WANG CHIN - 1402 SI SATCHANALAI	1.0 0.8 1.81 0.5 1.3 0.5 2.34 0.7	41000 55000 41000 59000	45 1114 43 1308	167 1305 BAN TAK - 1408 BAN DAN LAN HO! 168 1307 UMPHANG - 1308 PHOP PHRA	0,9 0.7 1,35 3,9 0.7 8,00 3,3	65000 66000 46000 19000	56 1368 52 323
95 0502 WANG NUA - 0801 M. PHAYAD	1.4 D.4 3.E3 1.0	41000 33000 41000 103000	32 4453	169 1307 UMPHANG - 1506 KLONG SAN	4,4 0,7 5,96 3,7	46000 41000	59 542
				170 1307 UMPHANG - 1607 LAN SAK	5.3 1.2 4.38 4.1	46000 35000	96 175

				/1	12 /	3 /	4 /5	/6	12.	/a ·
	SEQ		LINK NAME	TΕ			୍ଞ୍ ଅ	UP.		GRAVITY
6	3. 171	1308	PHOP PHRA - 1506 KLONG SAN	8.3	0.9 9.4	8 7.0	19000	41000	70	159
			SI SATCHANALAI - 1409 SI NAKHON	0,6	0.4 1.5	2	59000	25000	30	1639
	173	1403	THUNG SALIAM - 1405 SI SAMRONG	0.8	0.5 1.7	4 O.S	32000	49000	37	1145
	174	1403	THUNG SALIAM - 1408 BAN DAN LAN HOI	1.4	0.4 3.3	4 1.0	32000	66000	33	1938
	175	1405	KONG KRAILAT - 1407 KHIRI MAT	0.5	0.3 1.6	5	44000	36000	25	2534
	176	1407	KHIRI MAT - 1408 BAN DAN LAN HOL	0.5	0.41.5	D .	35000	66000	28	3031
	177	1407	KHIRI MAT ~ 1507 LAN KRABU	0.7	0.4 1.7	5	36000	31000	30	1240
	178	1408	BAN DAN LAN HOI - 1502 PHRAN KRATAI	0.9	0.5 1.9	4 0.5		85000	39	3785
	179	1502	PHRAN KRATAI - 1505 SAI NGAM	0.8	0.5 1.6	7 0.0		69000	40	3666
	180	1503	KHLONG KHLUNG - 1504 KHANU WORALAKS	D. 5	0.3 1.8	8	137000	130000	23	33667
			KHLONG KHLUNG - 1505 SAI NGAM	1.0	0.42.4	5 O.F	; 137000	€9000	33	8680
			KHLONG KHLUNG - 1506 KLONG SAN	1,2	0.5 2.4	2 0.7	137000	41000	40	3511
			SAI NGAM - 1507 LAN KRABU	1.2	0.25.3	7) 69000	31000	15	9507
			SAWANG AROM - 1607 LAN SAK	0.8	0,41,9			35000	35	706
	185		THAP THAN - 1604 NONG KHAYANG	0.2	0.21.5		29000	25000	13	4290
			THAP THAN - 1607 LAN SAK	0.7	0.41.5		29000	35000	35	805
			LON KAO - 1709 NAM NAO	1.7	0.5 3.4		445000	.12000	40	377
			LOM SAK - 1709 NAM NAO	1.5	0.5 3.0		00000	12000	40 33	870
	783	17.04	_NONG_PHAI - 1706 CHON DAEN	0.8	0.42.0	5 0.4	1 00000	121000	- 55	9889

- /1 TE: Travel tiem on existing roads (hour)
- /2 TI: Travel time on ideal road (hour)
- /3 R = TE / TI
- /4 S = TE TI
- /5 OP: Total potential of origin Amphoe
- /6 OP: Total potential of destination Amphoe
- /7 Distance in a straight line between origin and destination (km)
- Gravity = $OP \times DP/DIJ^2/1000$

Those underlined are proposed road links.

Criteria: $R \ge 1.5$, $S \ge 0.3$

Gravity Average Value: 4,000

Appendix 5-3 ACCESSIBILITY AND INTER-NODAL GRAVITY: INTER-CHANGWAT LINKAGE

SEQ 9.1 010 2 010 3 020 4 020 5 030 6 040 7 040 8 050 9 050 10 060 11 070 12 070 13 080 14 090	M. M	LINK NAME NAKHON SAWAN - 0201 M. PHICHIT NAKHON SAWAN - 1701 M. PHETCHABU PHICHIT - 0301 M. PHITSANULOK PHICHIT - 1701 M. PHETCHABUN PHITSANULOK - 1701 M. PHETCHABUN UTTARADIT - 1401 M. SUKHOTHAI UTTARADIT - 1701 M. PHETCHABUN PHRAE - 0601 M. LAMPANG PHRAE - 1301 M. TAK LAMPANG - 1401 M. SUKHOTHAI NAN - 0801 M. PHAYAO NAN - 0901 M. CHIANG RAI PHAYAO - 1001 M. CHIANG MAI CHIANG RAI - 1101 M. MAE HONG SO	71 TE 1.5 2.4 1.0 1.6 2.1 1.3 3.4 1.2 3.5 2.0 3.3 3.0	TT 1. 1. 3. 3. 1. 7 1. 44 0. 5 1. 7 1. 44 1. 3 1. 5 1. 5 1. 3 1. 5 1. 3 1. 3 1. 3	0 0.7 3 0.4 7 0.5 8 0.8 93 1.2 8 0.3 8 0.8 6 0.7 8 0.8 2 1.2 6 1.7 6 2.7	/ 0P 180000 180000 164000 215000 215000 129000 80000 80000 75000 75000 108000 173000	5 /6 DP 164000 138000 215000 138000 138000 138000 138000 150000 150000 108000 173000 173000 230000 30000		78 GRAVITY 4174 1383 18296 3018 2641 1511 572 2428 276 506 759 502 2257
15 100 16 100		CHIANG MAI - 1101 M. MAE HONG SO CHIANG MAI - 1301 M. TAK	3.1	1.52.0 $2.71.2$	1 1.5	230000 230000	30000	122	466
17 110 18 120	M.	MAE HONG SON - 1301 M. TAK LAMPHUN - 1301 M. TAK	E. 4 3. 0	3.7 1.7 2.4 1.2	2 2.7	30000	108000	215 298	539 37
10 120		WITH COME A COME THE PRICE	5.0	2.4 1.2	9 0.7	103000	108000	189	331

Those underlined are proposed road links.

Criteria: R > 1.5, S 2 0.3

Gravity Average Value: 2,000

		/1	40 40		4-	10	/7	/8
SEQ	LINK NAME	/ <u>1</u> TE	า เ / <u>2</u> / <u>3</u>	<u> </u>	<u>/5</u> ۳۶	. <u>76</u>		RAVITY
C.1 0101 M.	NAKHON SAWAN - 0105 CHUMBRENG	0.5	0.4 1.34	a '	180000	63000	29	13961
2 0101 M.	NAKHON SAWAN - 0109 THA TAKO	0.6	0.5 1.31		180000	80000	37	10519
3 0101 M.	NAKHON SAWAN - 0110 PHAISALI	1.2	0.7 1.70	0.5	180000	75000	58	4013
4 0101 M.	NAKHON SAWAN - OIII NONG BUA	0.9	0.6 1.43		180000	65000	49	4873
5 0101 M.	NAKHON SAWAN - 0112 TAK FA	1.1	0.7 1.55	0.4	180000	31000	57	1717
6 0201 M.	PHICHIT - 0205 PHO THALE	0.8	0.5 1.58		164000	92000	40	9430
7 0201 M.	NAKHON SAWAN - 0105 CHUMSAENG NAKHON SAWAN - 0109 THA TAKO NAKHON SAWAN - 0110 PHAISALI NAKHON SAWAN - 0111 NONG BUA NAKHON SAWAN - 0112 TAK FA PHICHIT - 0205 PHO THALE PHICHIT - 0205 PHO TRATHAP CHA	O.3	0.21,42		164000	45000	17	25536
0 0701 10	LUICUIC - CSOL MHNO 281 SHOW	0.4	0.3 1.29		184000	25000	27	5838
<u>9 0301 M.</u>	PHITSANULUK - 0302 PHROM PHIRAM	1.0	0.33.325	0.7	215000	55000	24	20530
10 0301 M.	PHITSANULOK - 0303 WAT BOT	0.3	0,21,41		215000	70000	19	41690
11 0301 M.	PHITSANULOK - 0304 CHAT TRAKAN	1.7	0.82,21	0.9	215000	35000	62	1958
12 0301 M.	PHITSANULCK - 0305 NAKHON THAI	1.3	0.9 1.45	0.4	215000	66000	69	2980
13 0301 M.	PHITSANULOK - DEDE NOEM MAPRANG	1.0	0.E 1.E1	0.4	215000	51000	49	4567
14 0401 M.	UTTARADIT - 0402 FAK THA	1.8	1.1 1.41	0,5	129000	13000	90	207
15 0401 M.	UTTARADIT - 0403 NAM PAT	1.1	0.8 1.32		129000	31000	65	947
16 0401 M.	UTTARADIT - 0404 THA PLA	0.8	0.5 1.28		129000	19000	37	1790
17 0401 M.	UTTARADIT - DADE TRON	0.5	0.22.10		129000	59000	18	23491
18 0401 M.	UTTARADIT - 0408 BAN KHOK	2.4	1.4 1.75	1.0	129000	4000	112	41
19 0501 M.	PHRAE - 0502 SONG	0.E	0.5).30		80000	88000	38	4875
20 0501 M.	PHRAE - 0507 WANG CHIN	1.1	0.8 1.40	0.3	80000	41000	84	801
21 0601 M.	LAMPANG - D607 MAE THA	0.3	0.3 1.33		150000	45000	20	16875
22 0601 M.	LAMPANG - OEIL SWEM NGAM	0.8	0.5 1.56		150000	38000	42	3231
23 0701 M.	NAN - 0702 THUNG CHANG	1.1	0.91.28		75000	11000	68	178
24 0701 M.	NAN - 0703 CHIANG KLAND	1.0	0.71.32		75000	20000	58	446
25 0701 M.	NAN - 0706 MAE CHARIM	0.5	0.3 1.74		75000	9000	22	1395
26 0701 M.	NAN - 0710 NA MUEN	1.2	0.9 1.41	0.4	75000	7000	70	107
27 0801 M.	PHAYAO - USO2 CHIANG KHAM	1.0	0.7 1.34		108000	86000	58	2761
28 0801 M.	PHAYAO - 0803 PONG	1.0	0.5 1.90	0,5	108000	41000	41	2634
29 0801 M.	PHAYAO - USO4 CHIANG MUAN	1.2	0.7 1.80	0.5	108000	19000	53	731
30 0801 M.	PHAYA0 - 0805 CHUN	o, e	0.4 1.49		108000	62000	32	6539
31 D9D1 M.	CHIANG RAI - 0904 CHIANG KHONG	1.7	0.9 1.93	០.ន	173000	53000	71	1819
32 0901 M.	CHIANG RAI - 0908 THOENG	0.9	0.8 1.47		173000	105000	47	8223
33 1001 M.	CHIANG MAI - 1006 PHRAD	1.2	0.81,40	0.3	230000	37000	67	1896
35 1001 M	CHICAG MAI - 1018 MAE CHAEM	1.5	0.9 1.63	0.6	230000	26000	75	1063
30 1001 M	CUTHUR WHI - 1018 DWKGI	2.4	1.61.51	0.8	230000	43000	129	594
77 1001 M	TOWEREN TOUC THE PART TO THE P	1.3	O.7 1.7E	0.5	30000	17000	58	152
37 1201 M.	TOW 1700 THE CRUE HER CHANG	1.4	0.8 1.73	0.6	103000	13000	63	357
30 1301 M	TOY - 1707 MOE BONG YANG	3.5	1.3 2.63	2.2	108000	25000	106	240
40 1301 M	TAK ** 1303 MHE RAMAT	1.4	0.9 1.24	0.6	108000	26000	€9	590
40 1301 M	TOK - 1304 SHM NGRO	0.9	O.E 1.50		108000	40000	45	2042
41 1301 M	TOK 1700 CURR CURR	:, €	0.8 3.18	0.9	108000	46000	. 60	1380
44 1001 M	PHITSANULCK - 0305 NARHON THAT PHITSANULCK - 0309 NUEN MAPRANG UTTARADIT - 0402 FAK THA UTTARADIT - 0404 THA PLA UTTARADIT - 0404 THA PLA UTTARADIT - 0406 TRÜN UTTARADIT - 0408 BAN KHOK PHRAE - 0502 SÜNG PHRAE - 0507 WANG CHIN LAMPANG - 0611 SÜEM NGAM NAN - 0702 THUNG CHANG NAN - 0702 THUNG CHANG NAN - 0705 MAE CHARIM NAN - 0710 NA MUEN PHAYAÜ - 0803 PÜNG PHAYAÜ - 0803 PÜNG PHAYAÜ - 0805 CHUN CHIANG RAI - 0904 CHIANG KHÖNG CHIANG RAI - 0906 THÖENG CHIANG MAI - 1016 MAE CHAEM CHIANG MAI - 1016 MAE CHAEM CHIANG MAI - 1018 MMKÜI MAE HÜNG SÖN - 1102 PAI LAMPHUN - 1205 THUNG HUA CHANG TAK - 1303 MAE RAMAT TAK - 1304 SAM NGAÜ TAK - 1308 PHÖP PHRA SUKHÜTHAI - 1403 THUNG SALIAM KAMPHAENG PHET - 1504 KHANU WÜRA KAMPHAENG PHET - 1504 KHANU WÜRA KAMPHAENG PHET - 1507 LAN KRABU	5.5	1.3 4.38	4.3	108000	1 3000	101	201
10 1401 PL	KOMPHOENE BUCK LERG (HONE)	1.0	U.6 1.82	0.5	75000	32000	45	1185
44 1001 M	KAMPHAENG PHET - 1504 KHANU WORA KAMPHAENG PHET - 1507 LAN KRABU	1.0	0.7 1.36		207000	130000	59	7731
45 1501 M	UTHAI THANI - 1602 SAWANG AROM				207000	31000	36	4951
47 1501 M	TOTAL TORKE - IBUZ BAWANG AROM	0.5	0.3 1.68		45000	24000	25	1598
48 1701 M	UTHAI THANI - 1603 THAP THAN PHETCHABUN - 1709 NAM NAO	0.4	0.2 1.78		45000	29000	17	4516
1101 H	THE FEMALON - ITUS MAN MAD	2.0	0.9 2.29	1.1	138000	12000	69	348

Those underlined are proposed road links.

Criteria: R ≥ 1.5, S ≥ 0.3

Gravity Average Value: 5,000

Appendix 5-5 COMMODITY FLOW VOLUME OF MAIN AGRICULTURAL PRODUCTS

								(1,000 t	on)									(1,000 ton)
Node Pai (Amphoe Code		Cor	modity !	Flow of	Main Agr	icultural	Products			Node Pa (Amphoe Code		Co	mmodity	Flow of	Main Agr	icultural I	Products	онду у Английн хэв (Манглу (М
Destination	Origin	Rice	Maize	Beans	Sugar Cane	Cassava	Tobacco Leaves	Total		Destination	Origin	Rice	Maize	Beans	Sugar Cane	Cassava	Tobacco Leaves	Total
0101	0102	30	6	21	15	6		78		0112	0108		10					10
	0103	12	5	2	23			42			0109		2					5
	0104	. 7	-	1	128			136			0110		1.5	3				18
	0106	14	1.		16			31			0111		15	G				15
	0107		5	10				15			0203		2					20
	0108		Ĭ.		28			28			1607		5					
	0109	12	2					14										Ş
	0110	5	10	2				17		0201	0202	61	2		7			C A
	0110	5	5	2.		* *		10			0206	34	2		T			64
	0112	, ,	J		3			3			0207	15	£					36
	0205	65		5	3			70			0307	5	2					15
		65		J	10			10			0309	7	2.					7
	1503		16	6	10 30			51			1505	15	2					7
	1504		15	6		15		28			1000	13	2					17
	1602				1.3 1	13				0202	0201		1:0					
	1603							1		0203	0201	. 20	10					10
+	1605		÷		36			36 26			0204	38	1	_				39
	1606			•	26	٠.		26		•	0205		5	2				7
	1607				24	25		49		1	0206	==	32	1				33
						,					0207	25	10					35
0102	1602				•	5 .		5 .	:		0301		10					10
	, and a second							- 4	•		0306		69	1				70
0105	0111	4	10					14			0308	19	12					31
***************************************			·····						•		0309	6	5	1				1.2
0107	0101		5			· ·		5			1706	5	8	1				14
	0102	69						69							·····			
	0103	24			•		•	24	•	0204	0205	•	3	1				4
	0104	15	100					15										
	0109	20						20		0301	0302	58	9	4		1		72
	0110	9					•	9			0303	7	10	2		2		21
	0111	14						14			0304	1						1
	1504		12	2			100	14			0306	24		1	•	27		52
	1602					5		5	*	•	0307	30						30
	1607		•			10		10			0308	30	. 15	5				50
							-,				0407		7	19				26
0108	0109	60		2				62									-	
	0110	28		5		5		38		0304	0306	1	•				·	· 1
	0111	50		7			• •	57				***************************************	Watering of the control of the contr					1.
	0112	2						2		0305	0306	3						2
	0204	50			4.5			50				J	·					3
	1504					3	•	3		0306	0303		6					· · · · · · · · · · · · · · · · · · ·
											0304							6
0109	0110	5						5					14	n		0.7		14
OEOD	0111	10						10			0305		58	Т		27		86
* .	0112	60			:			60		0308	0306			***************************************	······································	30		30
																		
0110	0112	28						28							•	•	•	

COMMODITY FLOW VOLUME OF MAIN AGRICULTURAL PRODUCTS (Continued) Appendix 5-5

and photos variation and the second second second	**************************************						The state of the s												.000 ton)
Node Pai (Amphoe Code		Co	mmodity	Flow of	Main Agr	icultural	Products			<u></u>	Node Pa (Amphoe Cod		Cor	mmodity	Flow of t	Main Agr	icultural	Products	
Destination	Origin	Rice	Maize	Beans	Sugar Cane	Cassava	Tobacco Leaves	Total		r 	estination	Origin	Rice	Maize	Beans	Sugar Cane	Cassava	Tobacco Leaves	Total
0401	0301 0304				5 5			5			0602	0603	2						2
	0304 0305 0306				4 4			4 4			0606	0605 0607		·		40 28			40 28
	0308				2			2				0608				58			58
	0404	1	5	3	26		•	35			•	0609				3			3
	0405	2	5		3			10				0611				1			1
•	0406	16	5	5	150			176				1202				2			2
	0408 0402	1	. 2			**		1 2		: -	0608	0609	5	· · · · · · · · · · · · · · · · · · ·			<u> </u>		5
	0403 0407		, 3	1	4 29		·	8 29			0701	0702	6	2		·		·····	9
	0408		1				•	. 1				0703	- 5	2	•			2	9
	1301				13	-		13				0704	6					2	8
•	1401				2			2				0705	10	2				3	15
	1402				44			44		•		0706		1					1
	1403				27			27				0707	2						2
	1404				27	4		27				0709	1	1				1	3
•	1405				28			28		· <u> </u>								<u> </u>	
	1406				3			. 3		•	0704	0705			*			2	2
	1408				. 4			6		-	0707	0003							
	1409 1502		•		50			50			0707	0501 0708	10	2				_	10
	1502				56			56		_		0708	2	2				1	5
0501	0401						1	1		_	0708	0710	4						4
0301	0502	24	6				2	32			0801	0802	1.4	2				**************************************	1.6
	0503	10	1	1		*	1	13			0001	0803	7						16
•	0504	3					1	4				0805	35		•			ī	36
	0505		5					5				0806	23	4				1.	27
	0506						2	2				0807	21	1					22
	0701						3	3	•			0906	56	24					80
	0707						2	2	•	•		0907	36	1					37
	0803		. 3					- 3				0908	36				•		36
	0804		1				egyperronautementejperrolegien der Steinen der eine geliche ein Steine der eine Steine der ein	<u> </u>				0909		. 1					1
0502	0804	3	·		· · · · · · · · · · · · · · · · · · ·			3			0901	0902 0903	11	2				1	14
0504	0505	21	18					39			•	0903	14 56	<u>т</u>				1	16
. 0001	0506	7		2				9				0905	57	6				1	61
	0507	6						6				0906	. 31	. 0				Ţ	64
							-	 				0908						2	2
0601	0602	5	1		T		1	8				0909	7						7
0001	0602		JL .		1		2	3		4		0911	40	•			•	1	41
	0603	4	1				1	6		<u>.</u>		TX							
4.	0605	10						10											
	0606		•				. 1	1											+
•	0607	9	1				•	10											
	0611	- 2						2	•										
	0612	2	1					3											

Appendix 5-5 COMMODITY FLOW VOLUME OF MAIN AGRICULTURAL PRODUCTS (Continued)

Node Pai		Co	mmodity]	Flow of I	Main Agr	icultural	Products	viculations of American Statements and American Statements of Statements	Node Pa		Col	nmodity	Flow of	Main Acre	icultural		,000 ton)
(Amphoe Code	: No.)	P-110-1-10-10-10-10-10-10-10-10-10-10-10-			 				(Amphoe Code	e No.)			LTOM OT	main Agr		Products	
Destination	Origin	Rice	Maize	Beans	Sugar Cane	Cassava	Tobacco Leaves	Total	Destination	Origin	Rice	Maize	Beans	Sugar Cane	Cassava	Tobacco Leaves	Total
1001	0501 0601						5 4	5 4	1105	1101 1104	÷	1				1	1
	0701 0707		•				6 5	6 5	1301	0609	6	2		and the second s	To the second se	J. .	2
	0801 0910	22		-			4	4 22		0610 1304	10	2 4					2 14
	1002 1003 1004	24 14 5	4	Ι.			2	29 17		1305 1306	13 31	8 30					21 61
	1004 1005 1006	3 . 13	1	4		4 4 4	3 5	, 7 22	1302	1306	3			· .			3
	1007 1008	2		1.				2 9	1303	1306	2						2
÷	1009 1010	14 18		4			1	19 19	1306	1302 1303		2 4					2
	1011 1012	66 · 9		1			1	67		1308	4	12					16
	1013 1014 1015	13 10 17		1		·		13 10 18	1307	1607	1	·				<u> </u>	1.
	1013 1017 1101 1102	40	1	1.			2	41 2 3	1401	0302 0407 1403 1404	10 18	1		•			10 18 1
	1104 1105	40	2				1 1	1 43		1405 1406	2 44	. 5 2	10 1				5 14 45
	1202 1203 1204				. •		1 1 1	1		1407 1408	2 7		2		·		4 10
	1206		<u></u>				1	1	1404	0507 1402	3 35	4 5	25				7 65
1012	1006 1017 1019				8 1 1			8 1 1		1403 1405 1409	17 2 9	2	5				19 8 11
1015	1016	3						3	1501	1301		3		11		, , , , , , , , , , , , , , , , , , ,	14
1016	1017			1				1		1407 1502	2 25	1 1	2 4	15			5 45
1017	1018 1019	2		. 2				2 2		1503 1504 1505	20	. 7		110 70 120	44		110 114
	1105	40						40		1506 1507	12 41	, 3 7	1	26 25			147 41 74
1101	1105	1		······································			<u> </u>	1	1.503	1407	2	······································					2
1103	1105	7					· · · · · · · · · · · · · · · · · · ·	7		150 <u>1</u> 1502	13	5		130			135 13

Appendix 5-5 COMMODITY FLOW VOLUME OF MAIN AGRICULTURAL PRODUCTS (Continued)

Node Pai: (Amphoe Code		Com	modity :	Flow of 1	Main Agri	cultural P	roducts	
Destination	Origin	Rice	Maize	Beans	Sugar Cane	Cassava	Tobacco Leaves	Total
1504	0100	-		All county to the second second		4		4
1304	0102					7	4.32	4 7
	0107					•		the state of the s
	1501			2	•	34		34 26
	1503		13	3		10		25
	1506		15	2		8		
1601	0106	7	1					8
	1602	41	4	•		n de la companya de La companya de la co		45
	1603	46	2					48
	1604	32			-			32
	1605	44	6		\$	100		50
	1606	16	55					71
	1607	21	31					52
1701	1702		50	1				51
	1703	. 32	40	3			4	79
	1709	11	1					12
1704	1705				1			1
•	1706	12	13	•	1	•		26
	1708	,			2			2
1705	1708		90					90

Rice : paddy (unhusked rice)
Tobacco: tobacco leaves (wet)

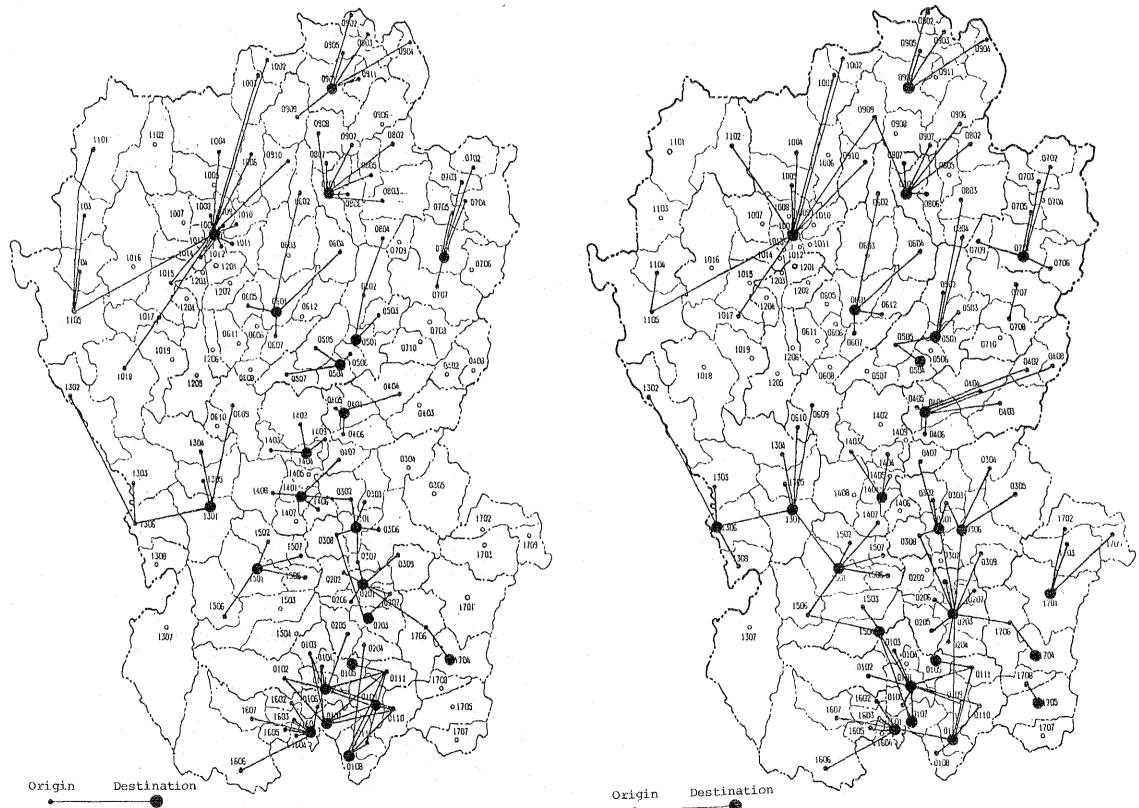
Beans : mungbeans, soybeans and other beans

Appendix 5-6 COMMODITY FLOW OF MAIN AGRICULTURAL PRODUCT

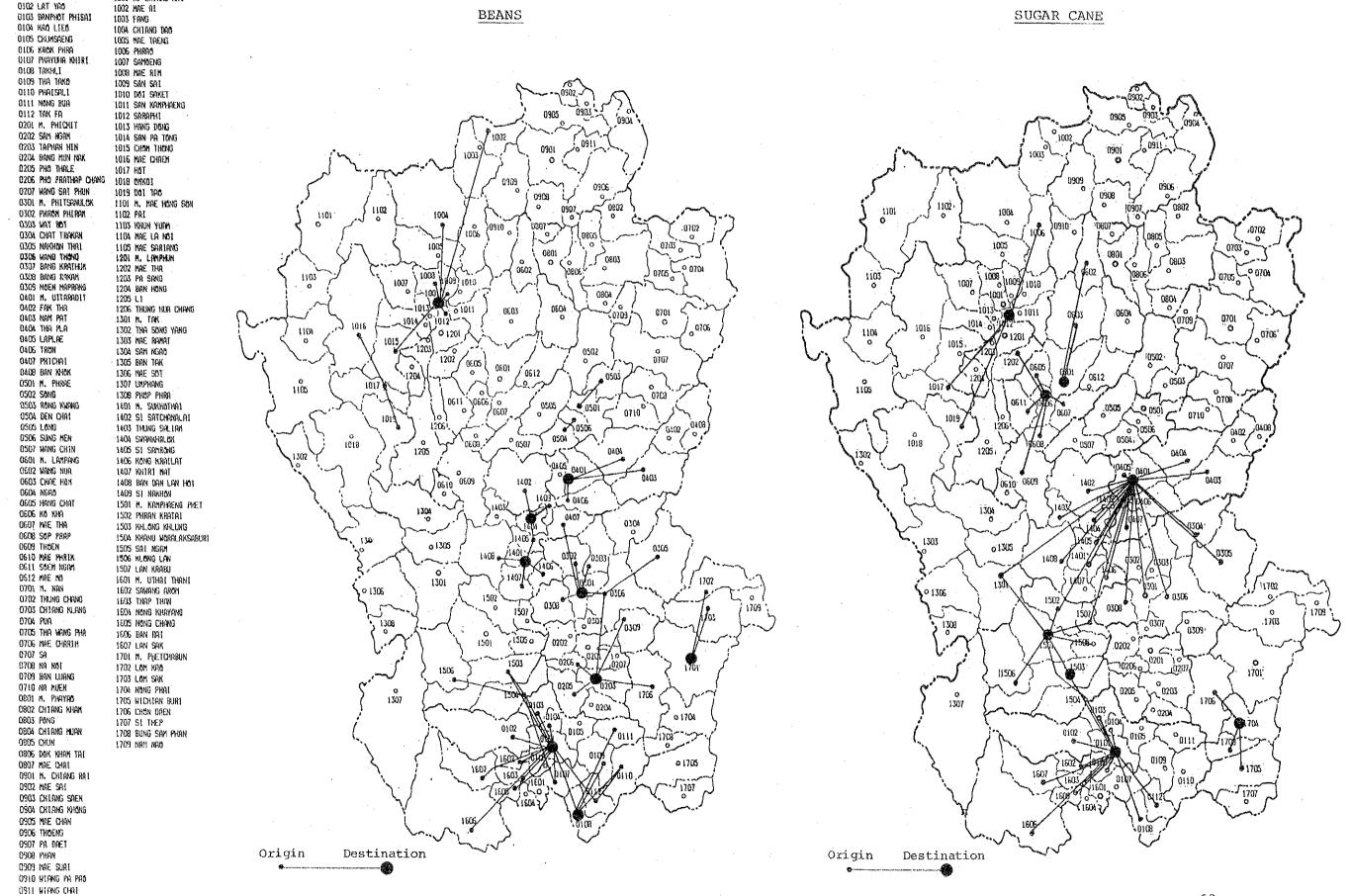
0101 M. NAKHON SAWAN DIO2 LAT YAO 0103 BANPHOT PHISAI DIDA KAO LIEO 0105 CHURSAENG OLDS KROK PHRA DIO7 PHAYUHA KHIRI DTOS TUKHIT 0.109 THA TAKA OLIO MALSALI DLIL NONG BUR DITE TOK FO 1012 SARAPHI 0201 N. PHICHEY 1013 HANG DONG 0202 SAN NGAN 1014 SAN PR TONG 0203 TAPHAN HIN 1015 CHON THONG 0204 BANG MUN NAK 1016 MAE CHAEK DOOS PHO THALE 1017 HOT 0206 PHO PRATHAP CHANG 1018 CHKO1 0207 HANG SAT PHUN 1019 DOI TAO 0301 N. PHITSANULEK 1101 M. MRE HONG SON 0302 PHRON PHIRM 1102 PRI 0303 WAT BOT 1103 KHUN YUAN 0304 CHAT TRAKAN 1104 MAE LA NOI 0305 MAKHBA THA1 1105 MAE SARIANG DOM: UNK THANG 1201 H. LAMPHUN 0307 BANG KRATHUN 1202 KAE THA 0308 BANG RAKAM 1203 PR SANG 0309 NOEN MAPRONG 1204 BAN HONG DADI H. UTTARADIT 1205 13 1206 THUNG HUA CHANG 0402 FAK THA DAGS NAM PAT 1301 M. TAK 0404 TKA PLA 1302 THA SONG YANG 0405 LAPLAE 1303 HAE RAHAT OADS TRON 1304 SAM NGAD 0407 PHICHAI 1305 BAN TAK 0408 BAN KHOK 1306 NAE SOT DSOL N. PHRAE 1307 INPHONE 05072 SONG 1308 PHOP PHAR 0503 RING KNANG 1401 M. SIMHATRAT 0504 DEN CHAL 1402 ST SRTCHONALDI 0505 L6NG 1403 THENG SHI IRM 0506 SUNG MEN 1404 SVANKHALNK 0507 HANG CHIN 1405 ST SAMRONG 0501 M. LAMPANG 1406 KONG KRAILAT OED2 WANG NUA 1607 KHIRT KHI 0603 CHAE HOX 1408 BAN DAN LAN HOT OGDA NGAÐ 1409 ST NOKHON 0605 HANG CHAT 0606 K8 KHA 1501 N. KAMPHAENO PHET 1502 PHRAN KRATAL 0607 MRE THA 1503 KHLONG HALUNG 0608 SOP PRAP 1504 KHANU WORALAKSABURI 0609 THOEN 1505 SAT NOOM 0610 MAE PHRIK 1506 KLONG LAN D611 SOEN NORM 1507 LAN KRADU 0612 MAE NO 1601 M. UTHAL THANI 0701 B. NON 1602 SAWANG AROM 0702 THUNG CHANG 1603 THAY THAY 0703 CHIANG KLANG 1604 NONG KHAYANG OZOA PUA 1505 NANG CHANG DZDS TRO MONG PHO 1506 BAN RA1 0706 MAE CHARIM 1807 LAN SAK 0707 50 1701 N. PHETCHABUN 9708 NA NOT 1702 LON KÀO 0709 BAN LUANG 1703 LON SAK 0710 NA MUEN 1704 NONG PHAT 0801 N. PHAYAG 1705 WICHIAN BURI 0802 CHIANG WHAN 1706 CHUN DAEN 0803 P6NG 1707 ST THEP 0804 CHIANG NUAN 170X BUNG SAM PHAN 0805 CHUA 1709 NAM NAU 0806 DOK KHAN TA! 0807 MAE CHAI 0901 M. CHIANG RAI 0902 HAE 5A1 0903 CHIANG SAEN 0904 CHIANG KHONG 0905 MAE CHAN 0306 THOENG 0907 PA DAET

ngda Phan

0909 MAE SUAL 0910 WIENG PA PAO 0911 WIENG CHAI 1001 N. CHIRNS MAI
1002 MAE AI
1003 FANG
1004 CHIRNS DAO
1005 MAE TARNS
1005 MAE TARNS
1006 PHRAD
1007 SAMOENS
1009 SAN SQI
1009 SAN SQI
1010 DOI SOKET
1011 SON KAMPROENS



Appendix 5-6 COMMODITY FLOW OF MAIN AGRICULTURAL PRODUCT



DIDI M. NAKHINI SAWAN

1001 M. CHIANG HAI

.0702

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0106

1702

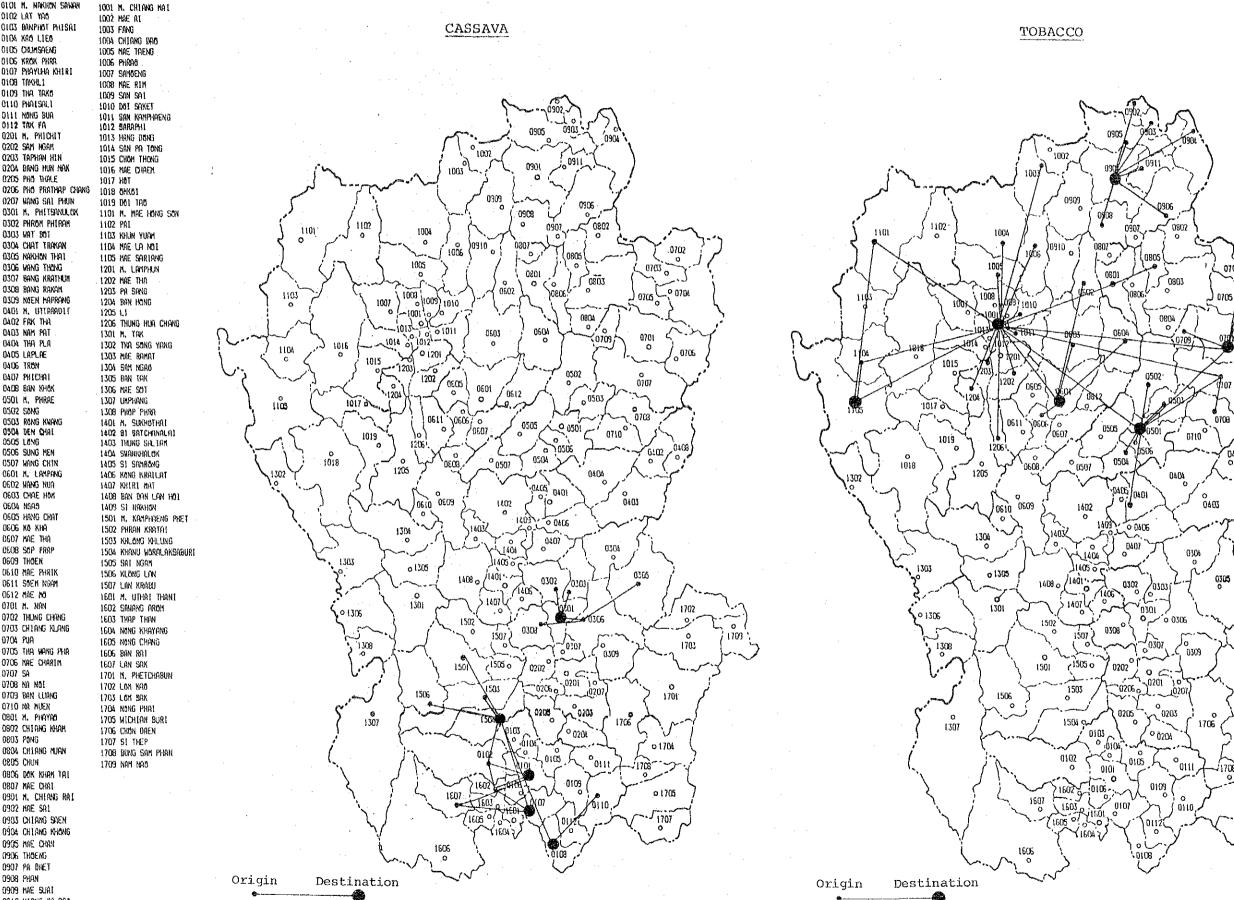
o 1704

o 1706

64

0402





	LINK NAME M. NAKHON SAWAN - 0112 TAK FA M. NAKHON SAWAN - 0205 PHO THALE M. NAKHON SAWAN - 1504 KHANU WORALA	/1	/2 /3	3 /	/ /5
SEQ	LINK NAME	, TE	TI R	ន	λ. ""
D. 1 0101	M. NAKHON SAWAN - 0112 TAK FA	4.1	0.7 1.55	0.4	. 3
2 0101	M. NAKHON SAWAN - 0205 PHO THALE	1.5	0.6 2,62	0, 9	70
3 0101	M. NAKHON SAWAN - 1504 KHANU WORALA	.0.9	0.6 1.42		51
4: 0101	M. NAKHON SAWAN - 1602 SAWANG AROM	· D. 7	0.41.51		28
5 0101	M. NAKHON SOWAN - 1507 LAN SAK	1.2	0.91.44	0,4	49
6 0108	TAKHLI - DID9 THO TOKO	0.9	0.51.72	0.4	E2
7 0108	TOKHI I - NIIN PHOISOII	0.8	0.6 1.40		38
9 0109	THO TOKE - 0112 YOK FO	0.6	0.41.67		6.0
9 0203	TOPHON HIN - DONE PHA PROTHOP CHO	0.9.	0.24.73	0.7	33
10 0303	TOPHON UTN: - 0207 HONG SOT PHIN	กัจ	n. 3.2.71	0.6	35
10 0203	TODLON WIN - OTOS NACH HOBBONG		6 1.41		
12 0701	M PHITSONIII AK - OZOZ PHRAM PHIROM	1.0	0.3 3.25	0.7	72
13 0301	M. PHITSANULAK - OSOS WAT BAT	71.3	0.2 1.41	merica mer	21
16 0301	M. PHITSONULMY - DOOD THOT TRAKEN	1.7	0.8 2.21	0. 9	1
15 0301	M. PHITSONILME - DADI M. LITTORADIT	1.8	1.1 1.61	0. 7	5
10 0001	CHOT TROKON - OTOE WOND THRNIG	1.4	0.72.17	0.8	1
15 0304	CHAT TROKON - DADI M. UTTOROLIT	1. 8	0. 9.1.84	0. 7	5
10 0305	NOKHAN THOT - OTOF HONG THANG	1.0	0. 7 1. 45	0.3	96
10 0000	MOVUMN THAT DAGS MENT TYPENDANT	2.2	1 7 1 79	1 0	
23 0300 23 0300	DONG DOVOM DADY M DITTORONY	. 7	1.0 1.70	0.5	. *
20 0308	DHAHIT TOTAL OF BUT THE	4 6	4 4 4 64	D. C	~
21 0401	M. UTTAKHDIT - UAUZ FAK TAH	1.6	1.1 1.41	u.a	2
22 0401	M. UTTARADIT - 0403 NAM PAT	1.1	0.81.32		8
23 0401	M. UTTARADIT - 0404 THA PLA	0,6	0.51,28		35
24 0401	M. UTTARADIT - 0406 TRON	0.5	0.22.10		176
25 0401	M. UTTARADIT - 0408 BAN KHOK	2, 4	1.4 1.75	1.0	1
28 0401	M. UTTARADIT - 1401 M. SUKHOTHAI	1.3	1.0 1.29		2
27 0401	M. UTTARADIT - 1403 THUNG SALIAM	1.4	0.91.66	0.6	27
28 0401	M. UTTARADIT - 1404 SWANKHALOK	0.8	0.61.40		27
29 0401	M. UTTARADIT - 1405 SI SAMRONG	1.0	0.7 1.44	0.3	28
30 0401	M. UTTARADIT - 1408 BAN DAN LAN HOL	1.5	1.1 1.42	0. 4	ε
31 0504	DEN CHAT - 0505 LONG	D. B.	0.3 2.46	0.5.	39
32 0504	M. NAKHON SAWAN - 1504 KHANU WORALA M. NAKHON SAWAN - 1602 SAWANG AROM M. NAKHON SAWAN - 1607 LAN SAK TAKHLI - 0110 THA TAKO TAKHLI - 0110 PHAISALI THA TAKO - 0112 TAK FA TAPHAN HIN - 0205 PHO PRATHAP CHA TAPHAN HIN - 0207 WANG SAI PHUN TAPHAN HIN - 0309 NOEN MAPRANG M. PHITSANULOK - 0302 WAT BOT M. PHITSANULOK - 0304 CHAT TRAKAN M. PHITSANULOK - 0304 CHAT TRAKAN M. PHITSANULOK - 0401 M. UTTARADIT CHAT TRAKAN - 0401 M. UTTARADIT NAKHON THAI - 0306 WANG THONG NAKHON THAI - 0401 M. UTTARADIT M. UTTARADIT - 0401 M. UTTARADIT M. UTTARADIT - 0402 FAK THA M. UTTARADIT - 0402 FAK THA M. UTTARADIT - 0402 FAK THA M. UTTARADIT - 0405 TRON M. UTTARADIT - 0405 TRON M. UTTARADIT - 1401 M. SUKHOTHAI M. UTTARADIT - 1401 M. SUKHOTHAI M. UTTARADIT - 1403 THUNG SALIAM M. UTTARADIT - 1405 SI SAMRONG M. UTTARADIT - 1406 SI SAMRONG	0.8	n. 6 1 32		Ē
33 0601	M. LAMPANG - DED7 MOE THO	0.3	0.6 1.32 0.3 1.33		-10
36 0601	M. LAMPANG - DELO MAE MA	1.0	0.4 2.52	0.5	2
₹5 0606	KO KHA - DEOZ MAE THO	n t	0.2 1.86	u. u	29
30 0606	KO KHO - DELL SASM NOOM	0.0	0.2 1.86 0.2 2.14 0.7 1.32 0.3 1.74 0.7 1.34		
77 0701	M NON - 0703 CHIONG KLONG	t 0	0,7 1,12		Ġ
37 0701	M NON - DIOS CHICANO REMINO	0.5	0.7 1.32		
39 0801	M. PHOYON - OPO2 CUTONIS KUOM	1.0	0.0 1.79		16.
70,0801	M PUOVOM DEOT DANIC	1.0	0.5 1.90	n s	~ ~
41 0001	M BUUANA T UBOS CRIBI	U E	0.4 1.49	u, u	′
10001	M. GUNYOM - DONE TURENE	((0,41,43		
42 0001	M GUOVOS — DOOT DO DOOT	7 * 1	0.81.38	0.3	
10001	M CUTONG DOT ODDY DUTONG CURNS	(7	0.5 1.25		01
45 0000	H. CUTHING KHI - USUA CHIRING KHONG	1.7	0,91,93		E1
42 0310	M. UTTARADIT - 1408 BAN DAN LAN HOT DEN CHAI - 0505 LONG DEN CHAI - 0505 LONG DEN CHAI - 0507 WANG CHIN M. LAMPANG - 0507 WAE THA M. LAMPANG - 0507 MAE THA KO KHA - 0611 SOEM NGAM M. NAN - 0703 CHIANG KLANG M. NAN - 0703 CHIANG KLANG M. NAN - 0705 MAE CHARIM M. PHAYAO - 0802 CHIANG KHAM M. PHAYAO - 0803 PONG M. PHAYAO - 0805 THOENG M. PHAYAO - 0906 THOENG M. PHAYAO - 0907 PA DAET M. CHIANG RAI - 0904 CHIANG KHONG WIANG PA PAO - 1001 M. CHIANG MAI M. CHIANG MAI - 1102 PAI M. CHIANG MAI - 1104 MAE LA NOI M. CHIANG MAI - 1105 MAE SARIANG CHOM THONG - 1016 MAE CHAEM MAE CHAEM - 1017 HOT M. TAK - 1304 SAM NGAO THA SONG YANG - 1306 MAE SOT IMPHANG - 1507 NACOR	1, 3	1.0 1.26		
46 1001	M. CHIANG MAI - 1006 PHRAC	1.2	0.81.40		
47 1001	M. CHIANG MAI - 1102 PAI	1.8	1.1 1.59	O. 7	3
48 1001	M. CHIANG MAI - 1104 MAE LA NOI	2.7	1.5 1.77	1.2	1
49 1001	M. CHIANG MAI - 1105 MAE SARIANG	2, 3	1.6 1.38	0,6	43
50 1015	CHOM THONG - 1018 MAE CHAEM	1.1	0, 4 2, 76	0.7	3
51 1016	MAE CHAEM - 1017 HOT	0.9	0.6 1.63	0.3	1
52 1301	M. TAK - 1304 SAM NGAO	0.9	0.6 1.50		14
53 1302	THA SONG YANG - 1306 MAE SOT	2.5	0.9 2.93	1.6	3
711 x - V	AUTHOR FOOT CHR DAM	5. 3	1.2 4.38	4. 1	
55 1501	M. KAMPHAENG PHET - 1504 KHRNU WARA	1.0	0.7 1.36		114
56 (50)	M. KAMPHAENG PHET - 1507 LAN KRABU	0.7			74
57 1503	KHLONG KHLUNG - 1504 KHANU WORALAKS		0.5 1.57		
58 1601	M. UTHAI THANI - 1602 SAWANG AROM	0.5	0.31,88		195
59 1601	M. UTHAI THANI - 1603 THAP THAN	0.5	0.3 1.68		45
50 1701	M. PHETCHABUN - 1709 NAM NAO	0.4	0.21.78		48
E1 (70)	NAME BROT - 1300 COST SOC.	2.0	0.9 2.29	1.1	12
ar find	NONG PHAT - 1706 CHON DAEN	0. 8	0.4 2.05	0.4	27

- /1 TE: Traveling time on existing roads (hour)
- TI: Traveling time on ideal roads (hour) /2
- $\frac{\sqrt{3}}{}$ R= TE/TI
- S = TE ~ TI (hour)
- /4 S=TE TI (hour)
 /5 A.: Agricultural freight volume (1,000 ton/year)

Those underlined are proposed road links.

Criteria: R 2 1.5, S 2 0.3

Agricultural Freight Volume 2 Average Volume: 19,000 ton/year.

Appendix 5-8 AMPHOE TO ARTERY HIGHWAY LINKAGE

(1)	Requirement	of	Linking	by	Paved	Road

Link	Ampl	noe		Conditi	on of Existir	ng Road		Two was to Dian		
No.	Code	Name I	Potential	Route No.	Destination	Length(km)	Width(m)	Surface	Improvement Plan	Remarks
								marin yeer		
E.l	0406	Tron	59,000	1214	Route 11	12.50	n.a.	laterite	Paving # 1214 (L = 12.5 km)	For shortest connection with # 11, which provides easy access to the other areas,
	•		÷.							# 1214 should be paved on the section between Tron and # 11.
E.2	0408	Ban Khok	4,000	1047	Fak Tha	35.0	n.a.	laterite	Paving # 1047 (L = 35.0 km)	Only a laterite section in a direction to Fak Tha of # 1047 should be paved urgently.
E.3	0710	Na Muen	7,000	9061	Na Noi	19.0	4.0	earth	<pre>Improving and Paving # 9061 (L = 20.0 km)</pre>	# 9061 is only one road to communicate with other areas.
E.4	1206	Tha Hua Chang	g 13,000	1219	Route 106	17.0	n.a.	laterite	Paving # 1219 (L = 16.5 km)	Route 1219 can connect with # 106 at a shorter distance than # 1184.
E.5	1307	Umphang	46,000	1117	Route l (via Ban Khlong Lan)	89.44	n.a.	paved (55.0 km) track (34.44 km)	New construction of the track section of # 1117 (L = 34.4 km)	There is no qualified road connecting with other areas.
	<u>.</u>						·		Sub-total 118.4 Km (5 links)	

(2) Requirement of Better Connection

Link No.	Amphoe				Linked Road				
	Code	Name	Potential	Route No.	Destination	Surface		Problems	Improvement Plan
.6	0103	Banpot Pisai	•	1182 (right bank)	Nakhon Sawan	paved	1)	#1073 provides no permanent bridge crossing the Ping River but only ferry services,	Grading-up the existing rural road connecting
			1073 (left bank)	# 1 & 1142	paved		making the connection between areas on the left bank and # 1 difficult.	left bank side of B. Pisai and K. Woralaksaburi ($L=22.0~\mathrm{km}$) (B. Pisai-A. Kao Lieo 15 KM)	
				Rural Road (left bank)	K. Woralaksaburi	earth	2)	The existing rural road directly connecting the left bank areas with K. Woralaksaburi is in poor condition. Since a permanent bridge over Ping River exists at K. Woralaksaburi, improvement of the said rural road makes accessibility easy for connection with the upper part of the Region via Route 1.	
.7	0407	Phichai	61,000	1140 ARD & 1180	Phitsanulok & Uttaradit Route 101	paved paved	1)	Viewing that agricultural products collected at Phichai are mainly shipped out in direction to Sawankalok (#101) through ARD road and # 1180, the ARD road should be paved and re-routed partially so that shortest approach to # 1180 and Si Samrong be available.	<pre>1) Paving and partial re-alignment of ARD road (L = 13.2 km)</pre>
.8				None	Route 11	•	2)	By constructing a new road to Na Yang (# 9053), effective utilization of # 11 can be expected.	2) Improvement of ARD road from Phichai to Na Yang (L = 18.4 km)
				·					Sub-total (62.9 KM) 53.6 km (3 links)

Appendix 5-9 LATERAL - TYPE LINKAGE

LATERAL-TYPE-LINKAGE TO BE ANALYSED

r 21			Present Condi	tion of Proposed Ro	oute			
Link No.	Location	Route No.	Origin	Destination	Length	Surface	Reason of Selection	Improvement Plan
F.1	09 Chiang Rai 10 Chiang Mai	1150	Phrao	Wang Pa Pao (Route 1019)	53.4	Laterite	Section between Phrao and Route 107 in Route 1150 is planned to be paved. So if remained section is paved, lateral road would be completed.	Paving Route 1150 (L = 53.4 km)
F.2	12 Lamphun	1184	B. Puang	A. Li (Route 106)	18.5	Laterite	Since Route 1235 and ARD are going to be paved, improving and paved a part of Route 1184 enables short connection between Route 106 and Route 1.	Improving and paving a part of # 1184 (L = 18.5 km)
F.3	05 Phrae 06 Lampang	1124	Route l (Don Chai)	Wang Chin (Route 1023 and 1125)	52.0	Laterite	Improving and paving Route 1125 con- necting Wang Chin with Route 101 have already proposed in the study of E.17 Lateral road between Route 1 and Route 101 would be completed	Improving and paving Route 1123 (L = 52.0 km)
								Sub-total (3 links) 123.9 Km

Appendix 5-10

DOH UNPAVED ROAD

Link ¹ /	Chan	gwat		P	resent Condition of Road			Potential Along Road				
Link-	Code	Za. aalkaadulka minin dan dan dan dan dan dan dan dan dan da	Route			Length	Surface		ation	Cultivabl	e & Cultivated Area	
	No.	Name	No.	Origin	Destination	(KM) (1)	Туре	Person (2 (2) (1	(Pers/Km)	Area (3)	$\frac{(3)}{(1)} (\text{Km}^2/\text{Km})$	
G1	17	Phetchabun	2245	R. 2224	B. Khok Sakae Lat	4.7	Laterite	1,500	310	20.1	6.0	
<u>G2</u>	17	Phetchabun	2244	R. 21	R. 2219 (Si Thep Noi)	14.5	Laterite	4,800	330	75.0	5.2	
(G3)	01	Nakhon Sawan	3330	A. Tak Fa	A. Phai Sali	27.5	Laterite	13,200	480	181.2	6.6	
G4	01	Nakhon Sawan	3332	B. Nong Phiklun	R. 1145	7.9	Laterite	1,900	240	18.8	2.4	
G5	01	Nakhon Sawan	3331	R. 1	B. Nong Phiklun	9.9	Laterite	1,500	150	50.0	5.1	
(G6)	. 01	Nakhon Sawan	1145	R.1 (Nikhom Tak Fa	a)A. Tha Tako	28.7	Laterite	14,900	520	162.5	5.7	
G7)	01	Nakhon Sawan	1119	A. Nong Bua	R. 9124	29.6	Laterite	24,100	810	250.0	8.4	
			:			(10.0)	(Paved)					
G8	01	Nakhon Sawan	1198	A. Lat Yao	Wang Pa Yai	25.0	Track	6,400	260	150.0	6.0	
G9	16	Uthai Thani	1090	A. Um Phang	A. Nong Chang	147.0	Track	32,600	220	675.0	4.6	
GJ.0	13	Tak	1117	B. Khlong Lan	A. Um Phang	65.0	Laterite	8,200	120	0	0	
				•		(24.4)	(Paved)					
G11	13	Tak	1167	R. 1090	Burmese Border	22.0	Laterite	1,000	50	118.8	5.4	
G12	13	Tak	1090	B. So-0	A. Um Phang	70.0	Laterite	2,700	40	43.8	0.6	
						(50.0)	(Paved)					
G1.3	15	Kamphaeng Phet	1139	B. Khlong Lan	Kao Khan Na	65.0	Track	8,600	130	412.5	6.3	
G14	15	Kamphaeng Phet	1109	R. 1(B.Wang Chao) B. Loto	35.5	Laterite	7,500	210	75.0	2.1	
						(9.5)	(Paved)					
G15	15	Kamphaeng Phet	1116	R.1(B.Nakhom Chur	m)R. 1110 (B. Denkha)	50.0	Laterite	11,900	240	218.8	4.4	
G16	13	Tak	1110	R.1(B. Prakhang)	B. Wang Chao	6.0	Laterite	300	50	31.3	5.2	
						(20.0)	(Paved)					
G17	13	Tak	1108	B. Na Bot	B. Khai Phrachao Tak	11.0	Laterite	700	60	50.0	4.5	
$\overline{}$						(7.7)	(Paved)					
(G18)	02	Phichit	9045	R. 1068 (B.Tha Kho	i)A. Pho Prathap Chan	7.0	Laterite	5,200	740	40.6	5.8	
(G19)	02	Phichit	9034	A. Bang Ra Kam	B. Prak Reat	8.0	Laterite	12.900	1.610	62.5	7.8	
$(\widetilde{G20})$	02	Phichit										
	17	Phetchabun	1191	R.11 (B.Nong Khana	t)B Wang Hin	23.1	Laterite	23,800	1,030	303.0	13.1	

Note:1/Link No. with circle are of selected routes for further analysis.

Appendix 5-10

DOH UNPAVED ROAD (Continued)

Link ¹ /	Cha	ıngwat		Pre	esent Condition of Road			Potential Along Road				
No.	Code		Route			Length	Surface		lation	Cultivabl	e & Cultivated Area	
	No.	Name	No.	Origin	Destination	(KM) (1)	Type	Person (2)	2) 1) (Pers/Km)	(3)	$\frac{(3)}{(1)} (Km^2/Km)$	
		Berryalban alda sanan denama pengung Berryal dalam			and the state of t					·		
(G21)	17	Phetchabun	1205	B. Wang Pong	B. Wang Kradat	7.4	Laterite	12,400	1,670	62.5	8.4	
G22	17	Phetchabun	2286	B. Huai Yai	B. Nam Ron	21.0	Laterite	8,000	380	31.3	1.5	
G23	17	Phetchabun	9036	B. Pa Daeng	B. Sa Do Phong	25.0	Track	6,100	240	31.3	1.3	
G24	17	Phetchabun	2258	B. Na Ngua	B. Nong Mae Na	23.0	Laterite	4,800	210	181.3	7.9	
					$\frac{1}{2} \left(\frac{\partial u}{\partial x} + \frac{\partial u}{\partial x} \right) = \frac{1}{2} \left(\frac{\partial u}{\partial x} + \frac{\partial u}{\partial x} \right) = \frac{1}{2} \left(\frac{\partial u}{\partial x} + \frac{\partial u}{\partial x} \right)$	(13.0)	Paved		e .			
G25	17	Phetchabun	2196	B. Khao Kho	B. Sa Do Phong	15.2	Laterite	2,600	170	106.3	7.0	
G26	17	Phetchabun	2278	R. 21	B. Huai Lan	11.6	Laterite	3,800	330	50.0	4.3	
G27	17	Phetchabun	2001	R. 21	B. Tham Phra	.4.0	Laterite	1,200	300	6.3	1.6	
G28 .	17	Phetchabun	2181	R. 12	R. 2010 (A.Lom Şak)	5.9	Laterite	3,000	510	9.4	1.6	
(G29)	03	Phitsanulok	1220	R. 1121 (A. Wat Bot)	B. Na Kham	15.0	Laterite	14,800	990	256.3	17.1	
G30	04	Uttaradit	9053	B. Na Yang	B. Saen Khan	27.2	Laterite	6,300	230	75.0	2.8	
			9244				· Antonio Ballino					
G31	04	Uttaradit	1204	B. Pa Khanum	A. Phichai	49.2	Laterite	31,700	640	106.3	2.2	
G32	04	Uttaradit	9054	A. Si Nakhon	B. Dara	10.3	Laterite	2,800	270	68.8	6.7	
G33	04	Uttaradit	1166	R.1104 (B. Wang Prong)	B. Dara	18.4	Laterite	9,800	530	43.8	2.4	
G34	04	Uttaradit	1143	R.1214 (B.Bo Thong)	B. Na Pa Khai	9.1	Laterite	6,700	740	34.4	3.8	
G35	04	Uttaradit	9243	B. Wang Khon	B. Huai Chalong	33.8	Track	6,300	190	62.5	1.8	
G36	04	Uttaradit	1238	B. Huai Maeng	B. Phia	15.0	Laterite	1,900	130	18.8	1.3	
G37	04	Uttaradit	1212	B. Huai Dua	B. Phia	23.5	Laterite	1,300	50	43.8	1.9	
G38	04	Uttaradit	1239	B. Nam Pat	B. Huai Mun	46.0	Laterite	3,600	80	18.8	0.4	
G39	04	Uttaradit	1176	R. 1047 (B.Tha Pho)	A. Nam Pat	13.6	Laterite	1,500	110	56.3	4.1	
G40	04	Uttaradit	1047	A. Fak Tha	B. Na Sak	77.1	Laterite	11,100	150	56.3	0.7	
	*.					(36.0)	(Paved)			*		
G41	04	Uttaradit	1020	C. Phrae	км 70+00	62.0	Laterite	5,900	100	0.	0	
			. :			(8.0)	(Paved)					
G42	05	Phrae	1024	B. Suan Khuan	B. Pu Tock Luang	28.0	Laterite	4,100	150	25.0	0.9	
	4.1					(2.3)	(Paved)	- * ;			•••	
G43	05	Phrae	1134	R. 101	B. Rong Khem	6.0	Laterite	3,240	540	31.3	5.2	
√.	-					(16.4)		~, ~	3.0	<i></i>		
G44	05	Phrae	1217	R. 1216	R. 1134 (B. Wiang)	54.0	Laterite	4,600	90	18.8	0.3	
-		<u></u>	1218	(B. Wang Pung)	,	34.0	TM C GT T CG	4,000	90	10.0	. W. S	
	*			,								

Appendix 5-10

DOH UNPAVED ROAD (Continued)

Link ¹ /	Ch	angwat		Prese	nt Condition of Road			Potential Along Road				
No.	Code	Name	Route No.	Origin	Destination	Length (KM) (1)	Surface Type	Popula Person (2) (2) (1)			e & Cultivated Are (3) (1) (Km ² /Km)	
											- compared by the state of the	
G45	05	Phrae	1216	R. 101 (A.Rong Kwang)	A. Na Noi	27.0	Laterite	12,000	300	50.0	1.9	
G46	05	Phrae	9061	A. Na Noi	Sirikit Reservoir	43.0	Laterite	14,400	330	87.5	2.0	
G47	05	Phrae	1083	B. Nong Ha	R. 1123 (B. Pang Hai)	68.2	Laterite	5,300	80	12.5	0.2	
G48	05	Phrae	9107	B. Pang Hai	B. Muang Ched Ton	13.0	Laterite	500	40	9.4	0.7	
G49	05	Phrae	1123	B. Huai Noika	B. Bobia	31.8	Laterite	1,200	40	9.4	0.3	
G50)	14	Sukhothai	1113	R. 12 (B. Muang Kao)	B. Chaliang	30.0	Laterite	24,800	510	481.3	9.9	
						(18.5)	(Paved)					
G51	13	Tak	1111	R. 12	B. Pong Daeng	17.4	Laterite	5,700	330	387.5	22.3	
G52	13	Tak	1215	R. 1085 (B. Huai Mong)	B. Tha Wang Pha	6.7	Laterite	1,500	220	43.8	6.5	
G53	13	Tak	1175	Chedi Yuttha Hatthi	R. 1085	86.0	Laterite	9,300	110	106.3	1.2	
G54	. 13	Tak	9032	R. 1107	B. Tha Pui	23.5	Laterite	10,800	300	143.8	6.1	
355	13	Tak	1223	R. 1 (B. Dong Lon)	To Phumi Phon Dam	18.0	Laterite	1,700	90	87.5	4.9	
5 56)	14	Sukhothai	1048	A. Thung Saliam	R. 1 (A. Thoen)	52.7	Laterite	21,700	400	362.5	6.9	
	06	Lampang				(2.0)	(Paved)					
G57	14	Sukhothai	1177	R. 101	R. 101 (B. Pa Lailung)	35.6	Laterite	4,800	130	118.8	3.3	
G58	05	Phrae	1125	R. 1177 (B. Na Plakang)	A. Wang Chin	32.5	Laterite	7,900	240	93.8	2.9	
G59	06	Lampang	1124	A. Wang Chin	A. Thoen	52.5	Laterite	16,600	320	187.5	3.6	
G60	12	Lamphun	9030	R. 1102 (A. Mae Phrik)	B. Ko Thung	45.0	Laterite	10,000	220	212.5	4.7	
G61	12	Lamphun	1227	R. 106(B. Muang Sam Pi)	R. 106(B. Huai Ya Sai)	20.5	Laterite	3,900	190	43.8	2.1	
G62	12	Lamphun	1087	R. 106	B. Ko Thung	36.3	Laterite	5,000	140	218.8	6.0	
G63	10	Chiang Mai	1099	KM 71+00	A. Tha Song Yang	107.0	Laterite	14,800	140	193.8	1.8	
G64	10	Chiang Mai	1099	R. 108 (B. Bo Luang)	KM 71+00	71.0	Laterite	10,800	150	475.0	6.7	
G65	1.1	Mae Hong Son	1085	A. Tha Song Yang	A. Mae Sariang	135.0	Laterite	20,600	150	337.5	2.5	
	13	Tak	***					,		337.2		
G66	11	Mae Hong Son	1194	A. Mae Sariang	B. Mae Sam Laep	52.0	Track	6,300	120	31.3	0.6	
367	10	Chiang Mai	1012	A. Hot	B. Wang Lung	11.0	Laterite	3,400	310	31.3	2.8	
						(3.9)	(Paved)	3,400	310	JT + J	4.0	
G68	12	Lamphun	1219	R. 106 (B. Mae Thoei)	R. 1184 (A. Thung	17.0	Aug 17 State of the Control	2 100	120	60.0	4.0	
				are the first same same as	Hua Chang)	27.0	Laterite	2,100	120	68.8	4.0	
G69	12	Lamphun	1184	R. 106 (A. Li)		90.0		:				
303	1.4	ташънин	1104	V. TOO (W. III)	R. 106 (B. Mae Ao)	89.0	Laterite	16,200	180	293.8	3.3	

Appendix 5-10

DOH UNPAVED ROAD (Continued)

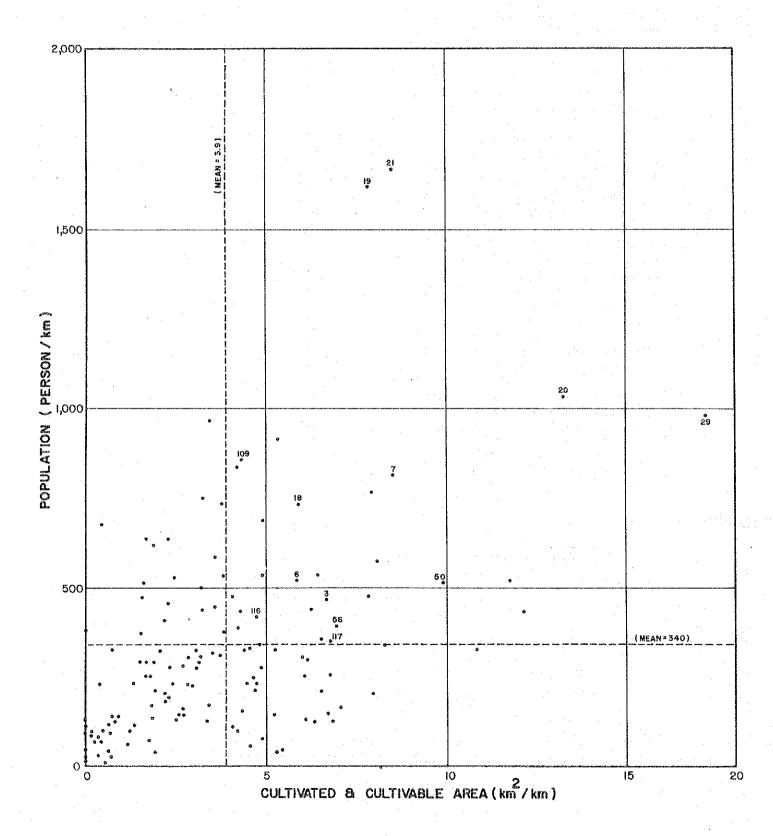
Link / Changwat		ngwat	*****************	Pr	Potential Along Road						
No.	Code		Route			Length	Surface		ulation (2)	W1100000000000000000000000000000000000	& Cultivated Are
	No.	Name	No.	Origin	Destination	(KM) (1)	Type	Person (2)	(2) (1) (Pers/Km)	Area (3)	$\frac{(3)}{(1)}$ (Km^2/Km)
3 70	06	Lampang	1100	R. 1023	B. Mae Tha	32.1	Laterite	8,200	260	50.0	1.6
	05	Phrae									
371	10	Chiang Mai	9050	B. Mai	B. Huai Kaeo	39.5	Laterite	8,000	200	87.5	2.2
572	10	Chiang Mai	1013	R. 108	B. Mae Win	28.3	Laterite	17,500	620	50.0	1.8
3 73	10	Chiang Mai	1192	R. 1009	A. Mae Chaen	20.7	Earth	2,000	100	12.5	0.6
574 .	10	Chiang Mai	1088	R. 108 (B. Op Luang)	B. Mae Sa	99.0	Laterite	23,100	240	43.8	0.4
G75	11	Mae Hong Son	1095	A. Pai	C. Mae Hong Son	103.4	Laterite	14,300	140	81.3	0.8
37 6	11	Mae Hong Son	1226	R. 1095	B. Mae La Na	6.0	Laterite	400	70	6.3	1.1
G77	05	Phrae	1154	Huai Mae Sai	A. Ngao	44.1	Laterite	7,100	160	112.5	2.6
	. 06	Lampang									•
3 78	07	Nan	1162	R. 1026 (A. Sa)	B. Nam Muap	13.0	Laterite	5,100	390	0	0
						(13.0)	(Paved)	•			
579	08	Phayao	9056	A. Dok Kham Tai	Chiang Muan	40.0	Laterite	27,200	680	15.6	0.4
		: 				(20.0)	(Paved)				
G80	80	Phayao	1170	R. 1080	R. 1081 (B. Don Mun)	14.0	Laterite	6,400	460	31.3	2.2
81	07	Nan	1082	A. Tha Wang Pha	B. Na Nun	3.5	Laterite	1,100	330	37.5	10.7
382	07	Nan	1080	B. Pong Sanuk	B. Sieo	11.0	Laterite	4,000	360	18.8	1.7
3 83	07	Nan	1138	R. 1081	Namtan Bordet	30.0	Laterite	1,500	50	0	. 0
58 4	07	Nan	1081	B. Nam Yao	B. Huai Kon	103.0	Laterite	9,400	100	18.8	0.2
385	07	Nan	1.097	A. Chiang Klang	B. Bon So Phit	23.0	Laterite	3,000	130	56.3	2.4
386	07	Nan	1131	A. Thung Chang	B. Chiang Hon Border	18.0	Laterite	1,500	80	31.3	1.7
87	07	Nan	1153	R. 1080 (B. Pon)	R. 1080 (B. Sop Pun)	14.5	Laterite	400	30	. 0	0
888	07	Nan	1137	B. Pon	B. Chiang Lom Border	20.0	Laterite	500	25	9.4	0.5
89	07	Nan	1080	B. Pon	B. Chiang Ngaen Border	40.0	Laterite	900	20	o	0
90	80	Phayao	1228	R. 1188 (B. Na Om)	B. Pha Tung	6.0	Laterite	2,500	420	12.5	2.1
91	08	Phayao	1188	R. 1091 (B. Pong)	B. Nam Puk	24.5	Laterite	6,300	260	112.5	4.6
92	08	Phayao	1092	R. 1091 (A. Fong)	R. 1148 (B. Chiang Kham)	33.4	Laterite	11,100	330	100.0	3.0
-	08	Phayao	1179	R. 1148	R. 1092 (B. Non Ngoen)	30.7	Laterite	10,200	330	131.3	4.3
594	08	Phayao	1160	R. 1148 (B. Hae)	B. Nam Lao	5.4	Laterite	700	130	0	0
95	08	Phayao	9058	A. Chun	B. Nam Oon	16.0	Laterite	9,400	590	56.3	3.5

Appendix 5-10

DOH UNPAVED ROAD (Continued)

r = 1/	Time1/ Changwat			Preser	nt Condition of Road			Potential Along Road				
Link-	Code		Route			Length	Surface	Populat	ion	Cultivable &	Cultivated Area	
	No.	Name	No.	Origin	Destination	(KM) (1)	Туре	Person (2) (2) (1)	(Pers/Km)	Area (3) (3) (1)	(Km ² /Km)	
G96	08	Phayao	1126	B. Pa Daet	R. 1021 (B. Huai Ngiu)	33.4	Laterite	9,400	280	100.0	3.0	
G97	08	Phayao	1210	A. Chiang Khom	B. Thung Kluai	14.5	Laterite	14,000	970	50.0	3.4	
G98	80	Phayao	1093	R. 1021 (B. Sop Bong)	B. Thung Kluai	8.3	Laterite	2,600	310	25.0	3.0	
G99	80	Phayao	9101	B. Thung Kluai	B. Muang Chum	9.9	Track	1,600	160	25.0	2.5	
G100	80	Phayao	1222	R. 1021 (B. Ngow)	R. 1155	6.2	Laterite	2,700	440	21.9	3.5	
G101	80	Phayao	9055	R. l (B. Tha Rua)	Nam Tok Cham Pa Thong	16.0	Laterite	5,100	320	56.3	3.5	
G102	09	Chiang Rai	1128	R. 1020	R. 1126 (B. Pa Ngae)	4.5	Laterite	700	160	18.8	4.2	
						(4.7)	(Paved)			•		
G103	09	Chiang Rai	1181	R. 1190	R. 1126 (B. Mai Nai)	14.4	Laterite	4,200	290	31.3	2.2	
G1.04	09	Chiang Rai	1190	R. 1020 (B. Chambon)	R. 1126 (B. Muang Nga)	23.2	Laterite	6,300	270	112.5	4.8	
G105	09	Chiang Rai	1150	A. Phrao	R. 1019 (A. Wiang Papao)	53.4	Laterite	24,900	300	81.3	1.5	
G106	09	Chiang Rai	109	A. Mae Saruai	R. 107	72.8	Laterite	16,300	220	137.5	1.9	
G107	80	Chiang Rai	1208	R. 1 (B. Rong Kun)	Nam Tok Khun Korn	20.0	Laterite	12,700	640	31.3	1.6	
G108	- 08	Chiang Rai	1232	R. 110	R. 1173 (Wiang Chai)	12.6	Laterite	6,000	480	18.8	1.5	
(G109)	80	Chiang Rai	1207	R. 110	B. Huai Khom	13.3	Laterite	11,400	860	56.3	4.2	
G110	80	Chiang Rai	1151	R. 110 (B. Du)	Nam Tok Pong Prabat	4.0	Laterite	3,000	750	12.5	3.1	
						(4.0)	(Paved)					
G111	10	Chiang Mai	9242	Tha Ton	B. Huai Hin Fon	45.0	Track	15,300	340	31.3	0.7	
	09	Chiang Rai					•					
G112	09	Chiang Rai	9247	R. 1130 (A. Mae Chan)	B. Huai Hin Fon	17.0	Laterite	4,900	290	43.8	2.6	
G113	09	Chiang Rai	1234	R. 1130	B. Ho Mae Salong	30.0	Laterite	3,300	110	3.1	0.1	
G114	09	Chiang Rai	1130	R. 110 (B. Pa Sang)	B. Huai Hin Fon	30.0	Track	9,300	310	93.8	3.1	
G115	09	Chiang Rai	1155	R. 1020 (B. Pang That)	R. 1020 (B. Lung)	37.0	Laterite	4,200	110	18.8	0.5	
						(61.0)	(Paved)	•		200	•••	
(G116)	09	Chiang Rai	1098	B. Kiu Phrao	B. Kaen	54.6	Laterite	22,700	420	256.3	4.7	
(G117)	09	Chiang Rai	1174	R. 1020 (B. Thung Ngiu)		47.6	Laterite	17,200	360	318.8	6.7	
G118	09	Chiang Rai	1129	A. Chiang Khong	A. Chiang Saen	53.1	Laterite	26,700	500	162.5	3.1	

Appendix 5-11 POTENTIALS ALONG DOH UNPAVED ROAD



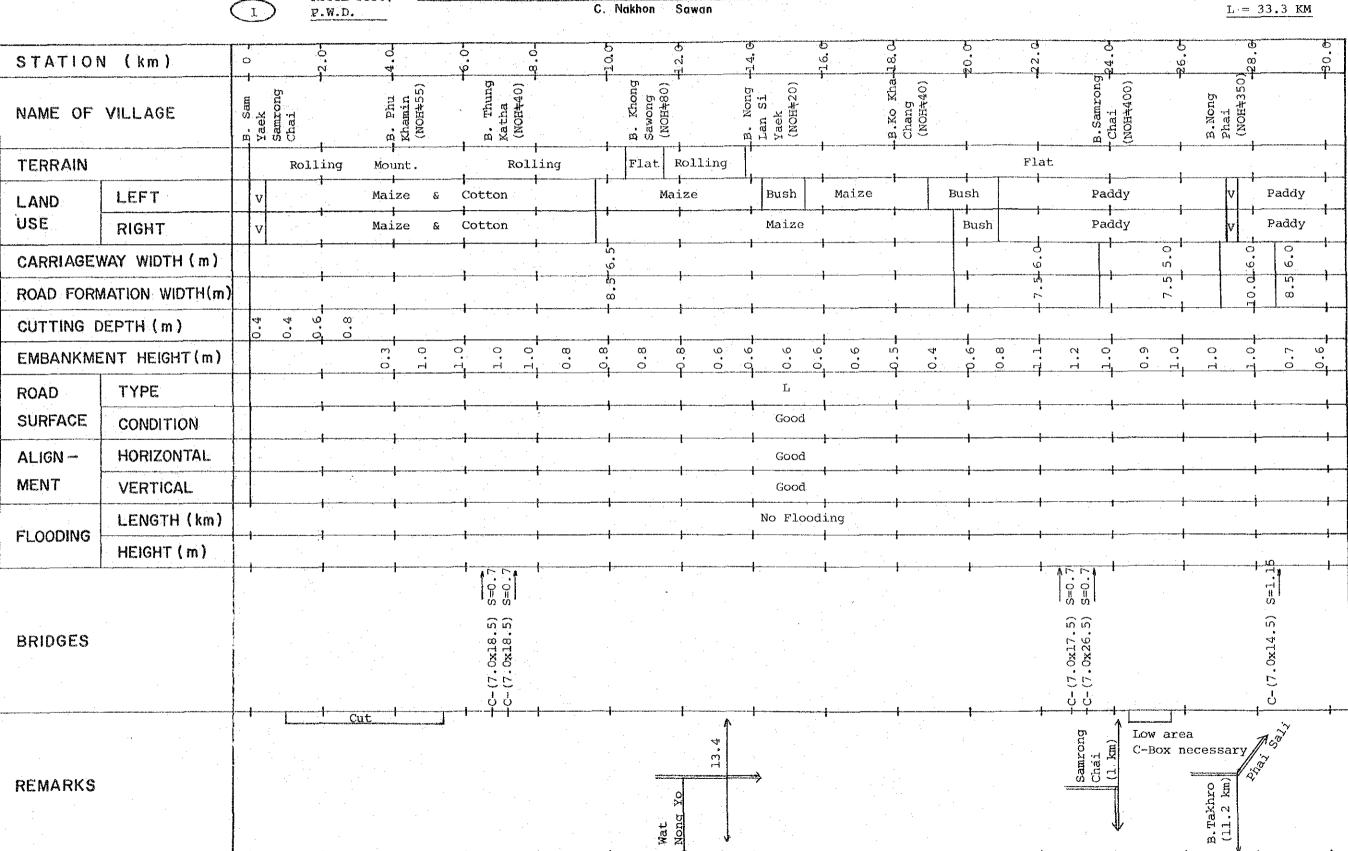
			· · · · · · · · · · · · · · · · · · ·				
Xunanê	Har G O. 1	/i - 03		Com Wash Common Start 17 Dects 11		75	Plant Cally (T. Pauta 2004)
Append	lix 6~2~1	1		. Sam Yaek Samrong Chai (J. Route 1)			Phai Sali (J. Route 3004)
	11	(3)		. Hua Thanon Nua (J. Route 3004)			Tak Fa (J. Route 1)
		(4, 5)		3. Sam Yaek (J. Route 1)			Hua Thanon Nua (J. Route 3004)
	.,	(6, 7)		. Nong Bua	_		Phanom Rok
	n .	(8)		. Kao Lieo	•••		Klong Yang
				. Sam Yaek Keiy Chai	***		Keiy Chai Nua
	11	(9, 10)		. Khanuworalaksa Buri (J. Route 1074)			Map Yang (J. Route 1142)
	н '	(11, 12)		. Chon Daen (J. Route 113)	-	Α.	Nong Phai (J. Route 21)
	11	(13)		3. Thung Sai	-	В.	Kho Plono
	tr.	(14, 15)	9. E	. Thung Ma Ha Chai (J. Route 115)		В.	Tha Makhua (J. Route 1084) - Ping River
	11	(16)	10,11. E	3. Tha Khoi (J. Route 1068)		Α.	Pho Prathap Chang - A. Taphan Hin (J. Route 1118)
	11	(17)		. Wang Chik (Route 1068)	-	В,	Pa Daeng (J. Route 1142)
	ıi	(18)	13. A	. Wang Sai Phum (J. Route 11)		В.	Nong Phayom (J. Route 113)
	T II	(19)	14. F	. Nong Khanak (J. Route 11)		В.	Wang Pong
•	#	(20)		. Wang Tham (Route 1221)			Tha Makham (J. Route 1114)
	T)	(21)	16. E	. Wang Phikun (J. Route 115)			Lan Krabu (J. Route 1065)
	f1	(22)		. Bang Rakam (J. Route 1065)			Nong Bua (J. Route 1142)
	В	(23)	18. A	. Khiri Mat (J. Route 101)			Nong Tum (J. Route 9117)
	17	(24)	19. A	. Phrom Phiram			Nong Makhong (J. Route 11)
	11	(25)	20. A	. Wat Bot			Na Kham
	n.	(26)	21. B	. Na Isang (J. Route 11)			Phichai
	11	(27)		. Phichai			Si Nakhon
	n .	(28, 29)	23. B	. Muang Kao (J. Route 12)			Muang Kao (J. Route 1201)
	11	(30, 31)		. Thung Saliam (Route 1048)	_		Don Chai (J. Route 1)
	tt ,	(32, 33)		. Wang Chin			Don Chai (J. Route 1)
	31	(34)		. Li (J. Route 106)	_		Puang (Route 1235)
	11	(35)		. Mae Thoei (J. Route 106)	***		Thung Hua Chang (J. Route 1184)
	31	(36)		. Na Noi (Route 1026)			Na Muen
	99	(37)	and the second s	. Rong Sua Ten (J. Route 110)	-	-	Huai Khom
	U	(38, 39)		. Thung Ngiu (J. Route 1020)	***		Chomphu (J. Route 1020)
	11	(40, 41)	and the second second	Kiu Phrao (J. Route 1016)	-		
		, /		Tive (or money toto)		17) +	Kaen Tai (J. Route 1174)

ABBREVIATIONS

BRIDGES	
$C - (W \times L) S = W'$:	Concrete Bridge
$T - (M \times L)$:	Timber Bridge
	W : Carriageway Width (m)
	L : Bridge Length (m)
	S = W' : Sidewalk Width (m)
_I.	Laterite Surfaced Road
E	Earth Road
S.T.	Surface Treatment
A.C.	Asphaltic Concrete
V	Village
NOH :	Number of Houses
R.A. :	Right Angle

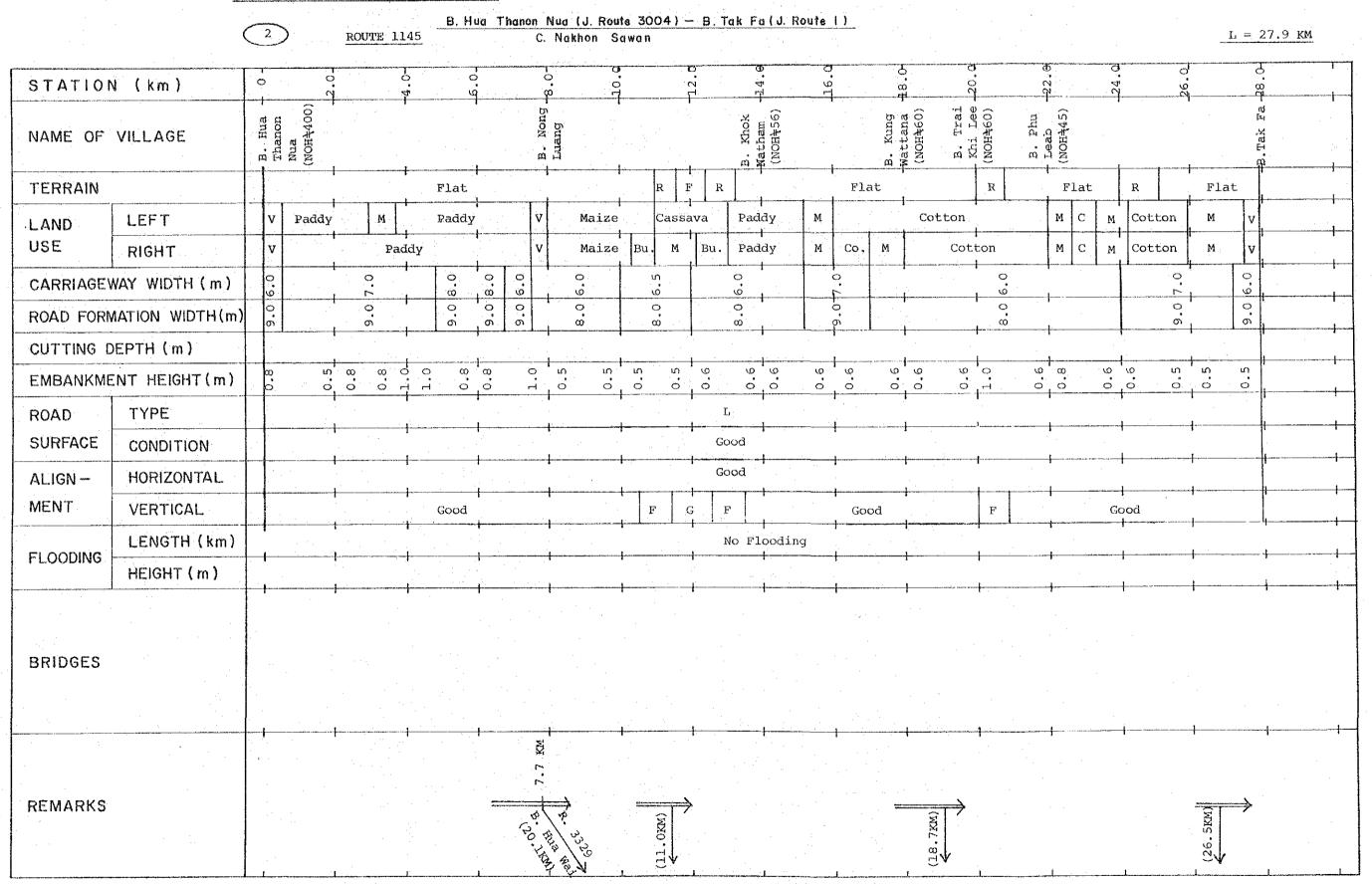
Appendix 6-2-1 ROAD INVENTORY

ROUTE 3330, B. Sam Yaek Samrong Chai (J. Route 1) - A. Phai Sali (J. Route 3004)



ROAD INVENTORY Appendix 6-2-1 B. Sam Yaek Samrong Chai - A. Phai Sali (Continued) ROUTE 3330, C. Nakhon Sawan P.W.D. STATION (km) NAME OF VILLAGE Flat TERRAIN Paddy LEFT LAND USE Paddy RIGHT 0.9 CARRIAGEWAY WIDTH (m) ROAD FORMATION WIDTH(m) CUTTING DEPTH (m) EMBANKMENT HEIGHT (m) TYPE ROAD SURFACE CONDITION Good HORIZONTAL ALIGN -Good MENT **VERTICAL** Good LENGTH (km) FLOODING HEIGHT (m) BRIDGES REMARKS

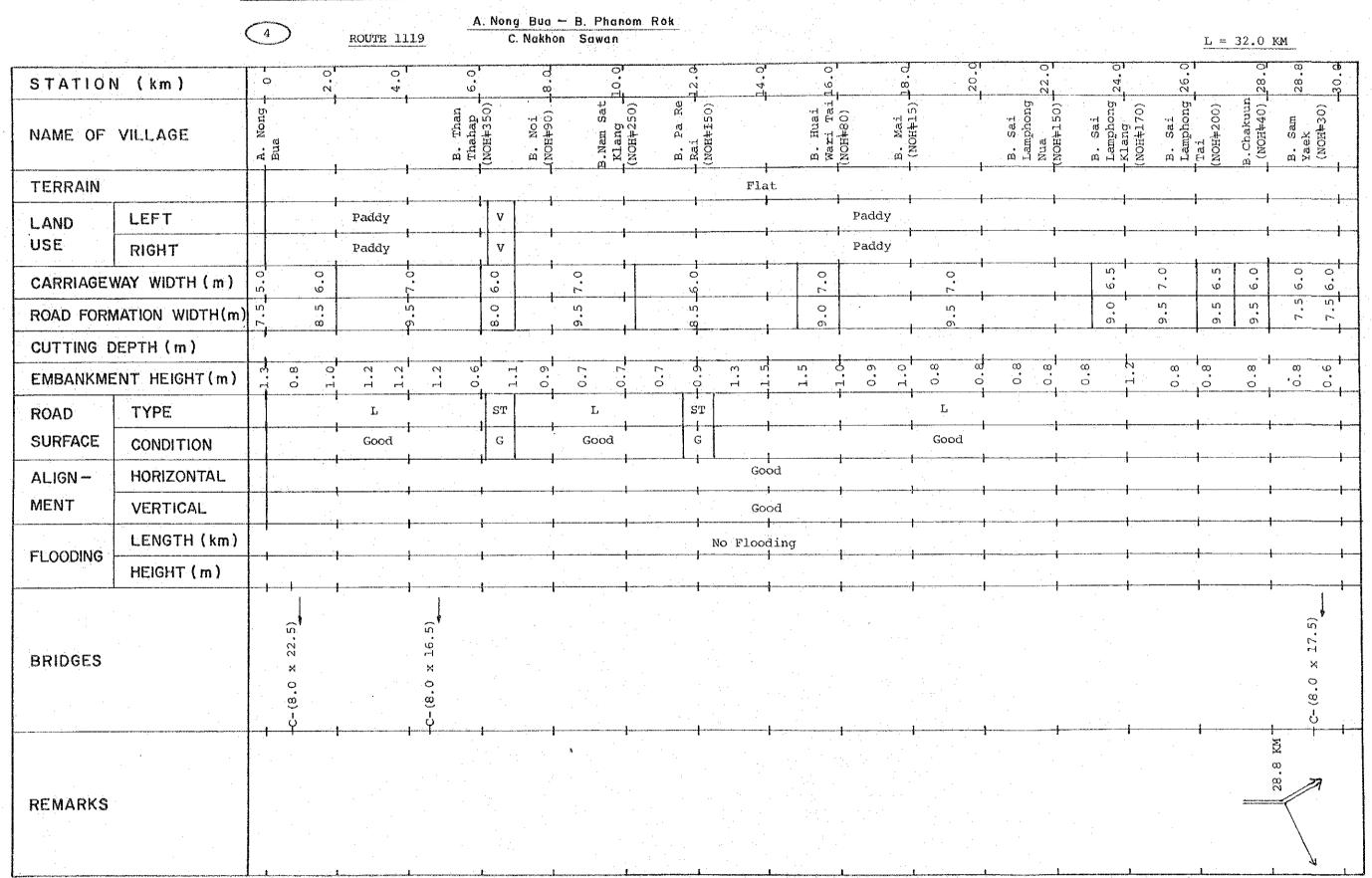
Appendix 6-2-1 ROAD INVENTORY

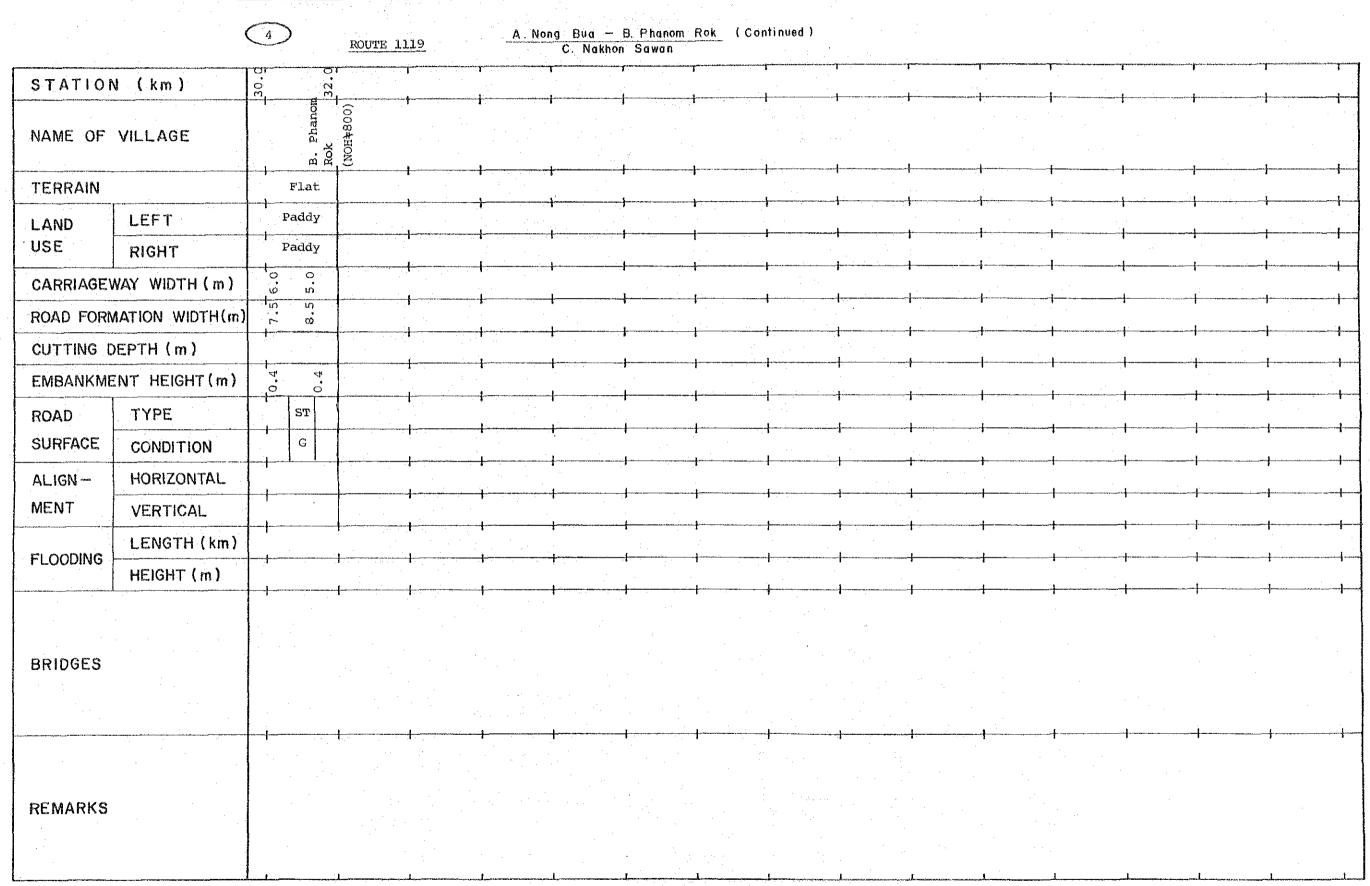


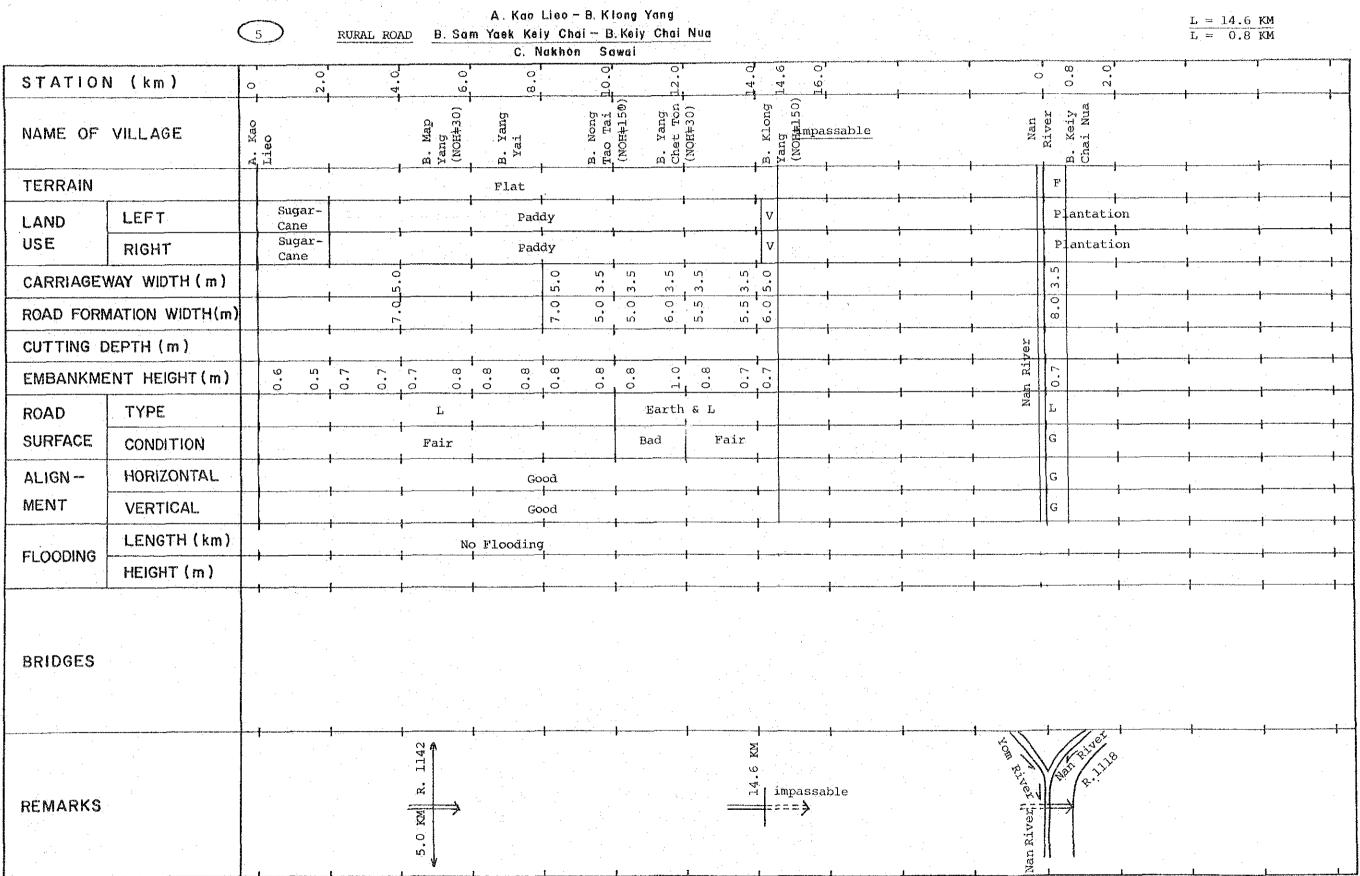
ROAD INVENTORY B. Sam Yack (J. Route I) - B. Hua Thanon Nua (J. Route 3004) ROUTE 3329, C. Nakhon Sawan (3)L = 46.5 KM**ROUTE 1145** STATION (km) Sua (NOH*100) B. Nong Pang Puay (NOH*40) B. Phai Rang Mai. (NOH+440) NAME OF VILLAGE Flat TERRAIN Mai. Pad. Maize Pad. Paddy Sugar Maize Paddy Maize Paddy Mai. LEFT LAND cane Sugar Mai. Pad. Maize Paddy Maize USE Paddy Mai Maize Paddy Pad. Cot. Pad RIGHT 0.9 0.9 0.9 0.9 R) 5.0 9 ιΩ 0 CARRIAGEWAY WIDTH (m) 'n ဖွဲ့ ភេ Ŋ 0 7.0 7.0 0. 0.8 7.0 7.0 0.8 7.0 0 0 0 ROAD FORMATION WIDTH(m) CUTTING DEPTH (m) 0.0 9 0.8 0.8 0.5 8 EMBANKMENT HEIGHT (m) TYPE ROAD Good Fair Good SURFACE CONDITION Good ALIGN -HORIZONTAL MENT Good VERTICAL 0.8 0.7 LENGTH (km) 3.0 2.5 + FLOODING 0.40.4 0.4 HEIGHT (m) 0.4 (7.0x10.5)BRIDGES Chai Nat B. Don Piom (4.0 KM) R.C.P. 7 4 R.C.P Necessary Necessary REMARKS Ta Khli (2.0 KM)

Appendix 6-2-1

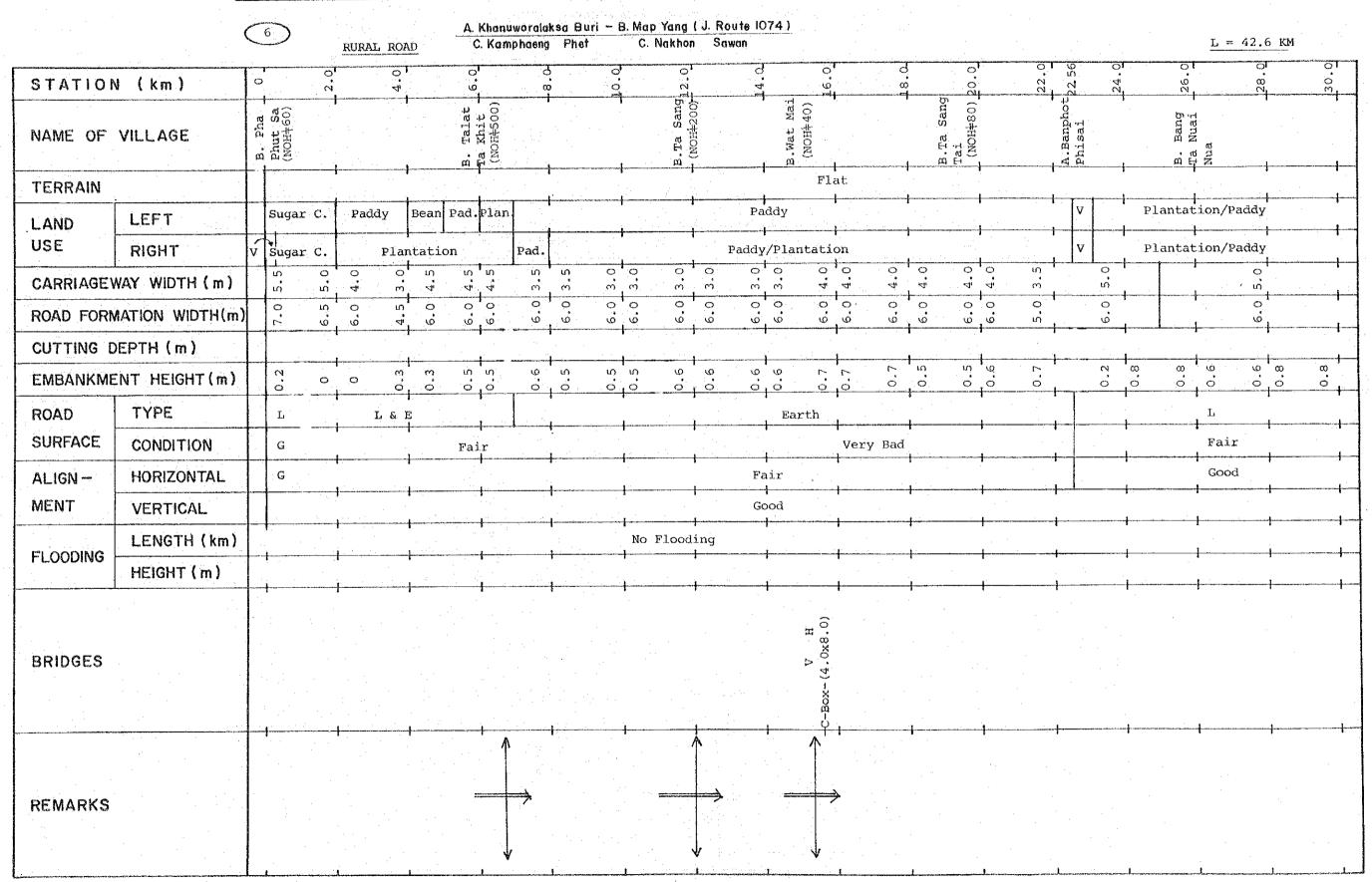
ROAD INVENTORY Appendix 6-2-1 B. Sam Yack - B. Hua Thanon Nua (Continued) ROUTE 3329. ROUTE 1145 C. Nakhon Sawan STATION (km) B. Nong Luang (NOH\to) NAME OF VILLAGE TERRAIN LEFT Paddy Cas. Pad. Cas. Bush Paddy Mai Paddy LAND USE Paddy Cas. Paddy Paddy Bush RIGHT 8.0 0.9 ru ru CARRIAGEWAY WIDTH (m) 0.6 P. 0 0.0 7.0 ROAD FORMATION WIDTH(m) CUTTING DEPTH (m) 0.8 EMBANKMENT HEIGHT (m) TYPE **ROAD** SURFACE Good CONDITION Good HORIZONTAL ALIGN -MENT **VERTICAL** Good LENGTH (km) FLOODING HEIGHT (m) BRIDGES Š 30.9 REMARKS .0*9)

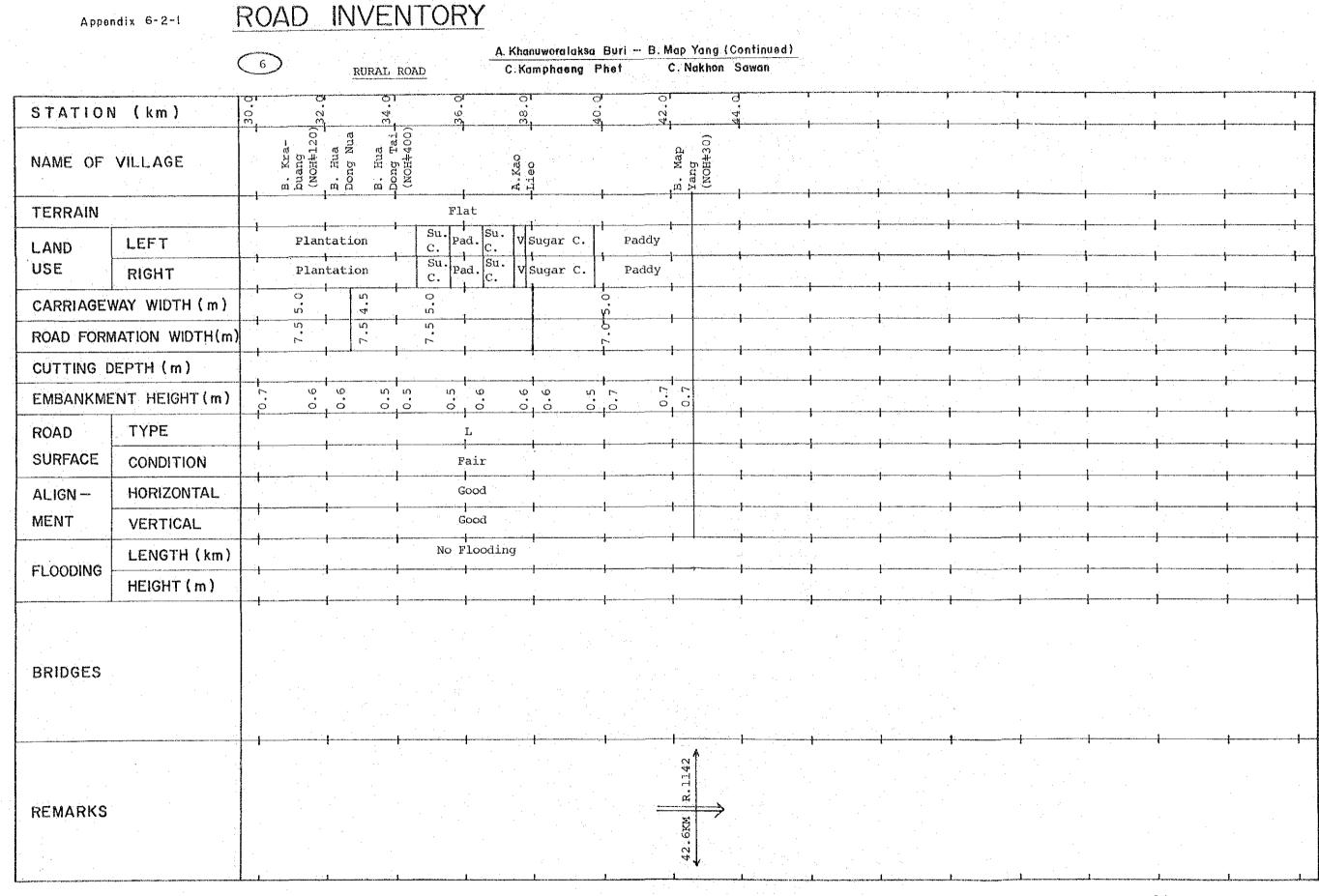




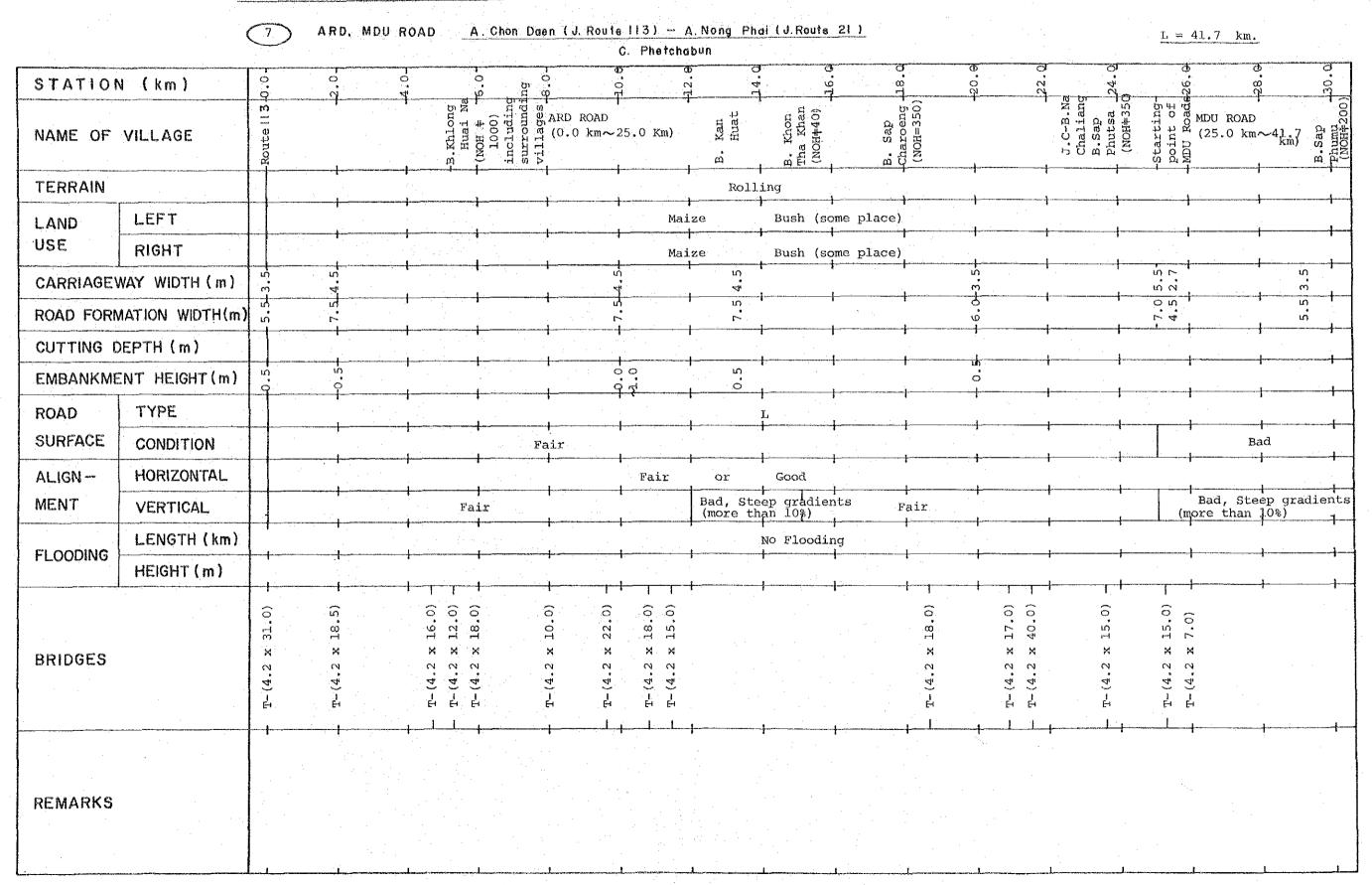


Appendix 6-2-1 ROAD INVENTORY

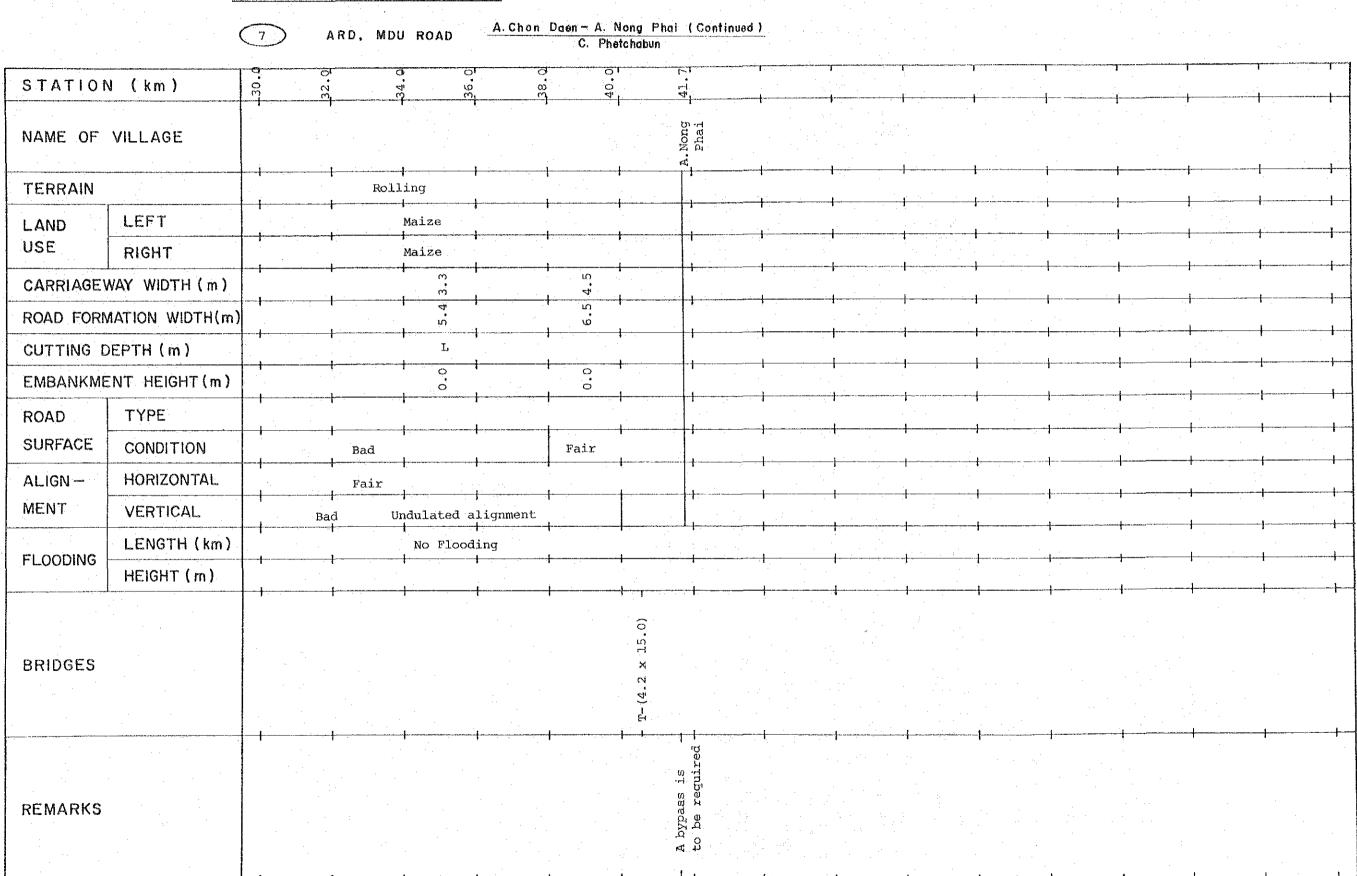




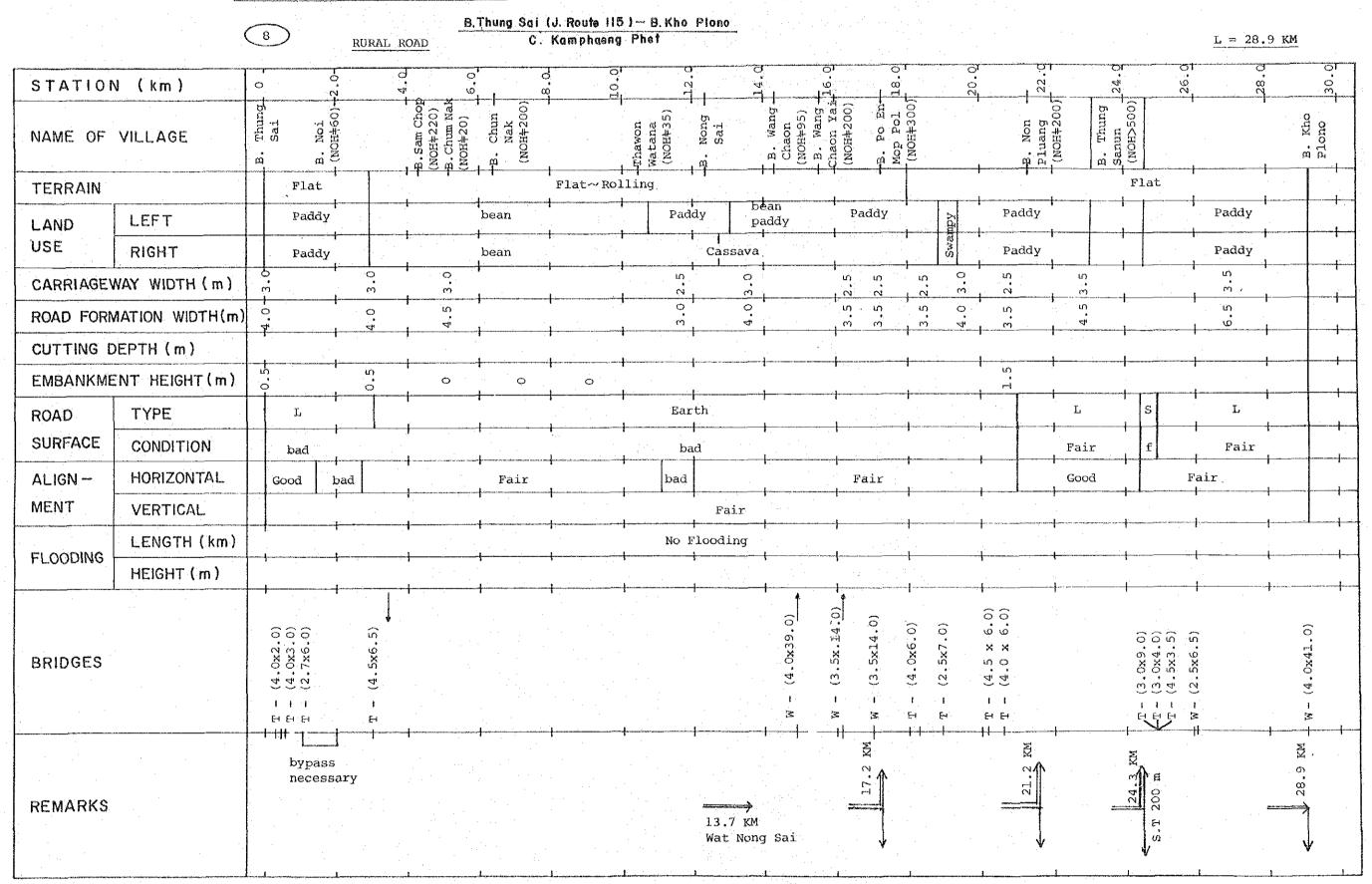
Appendix 6-2-1 ROAD INVENTORY



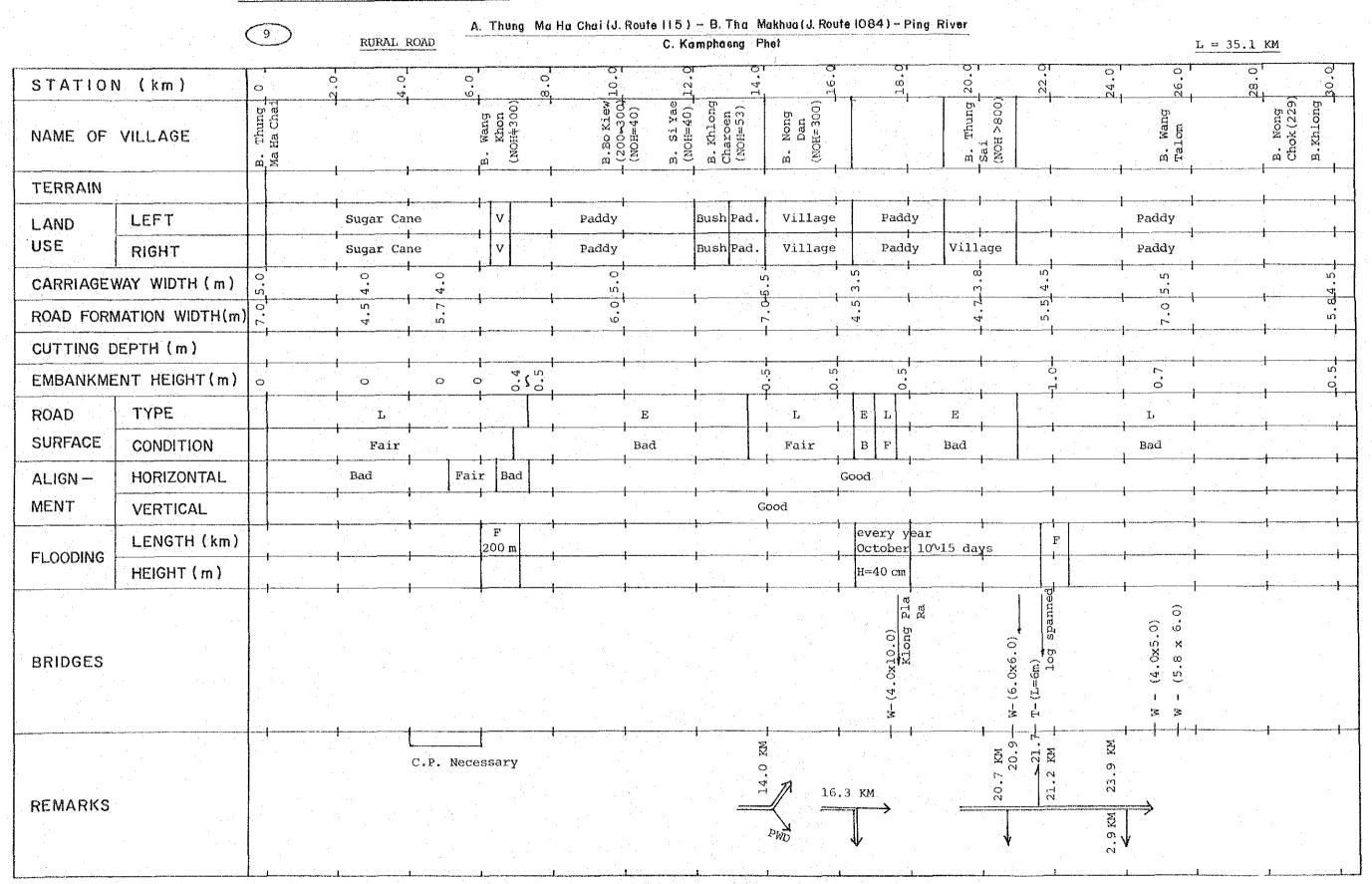
Appendix 6-2-1 ROAD INVENTORY

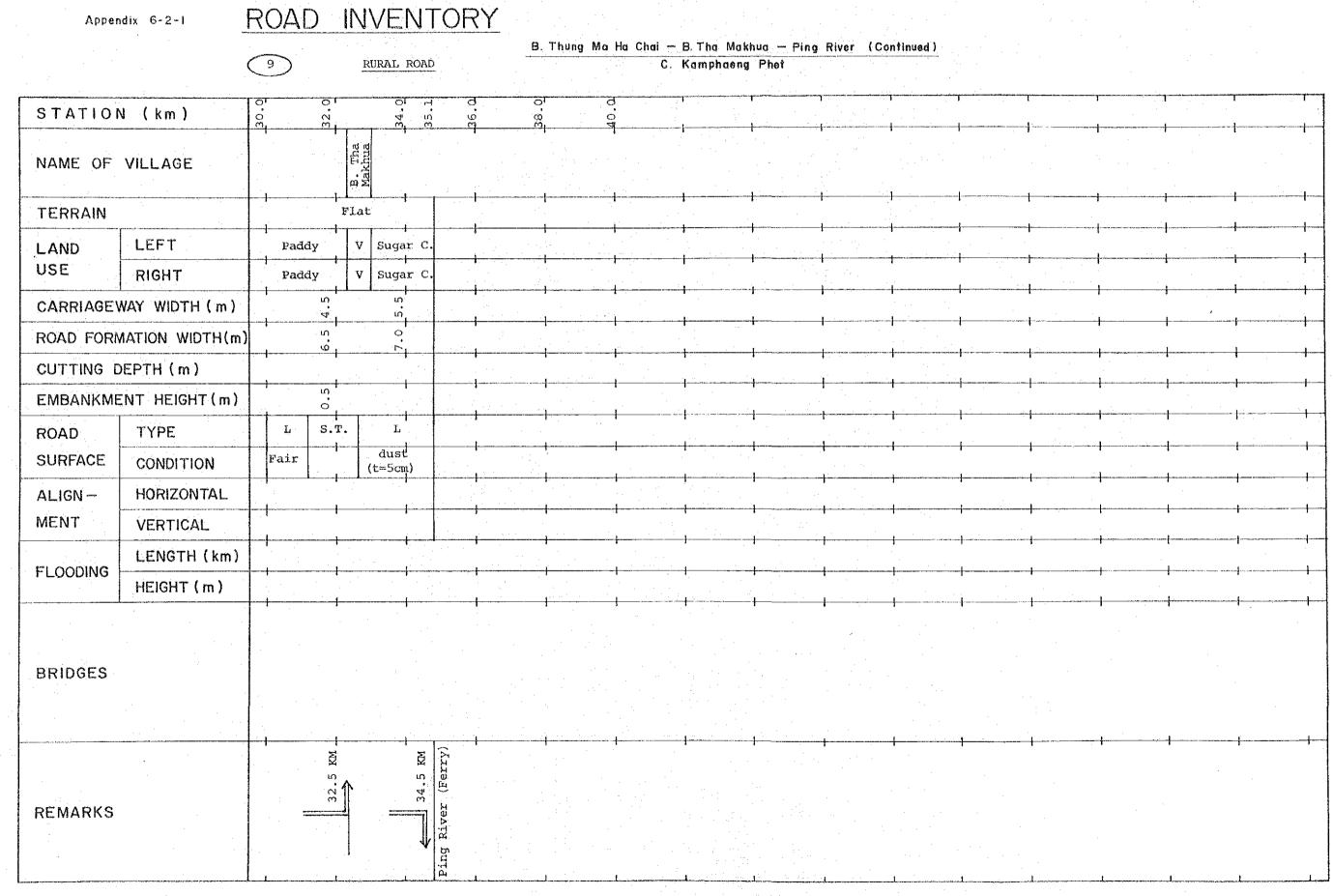


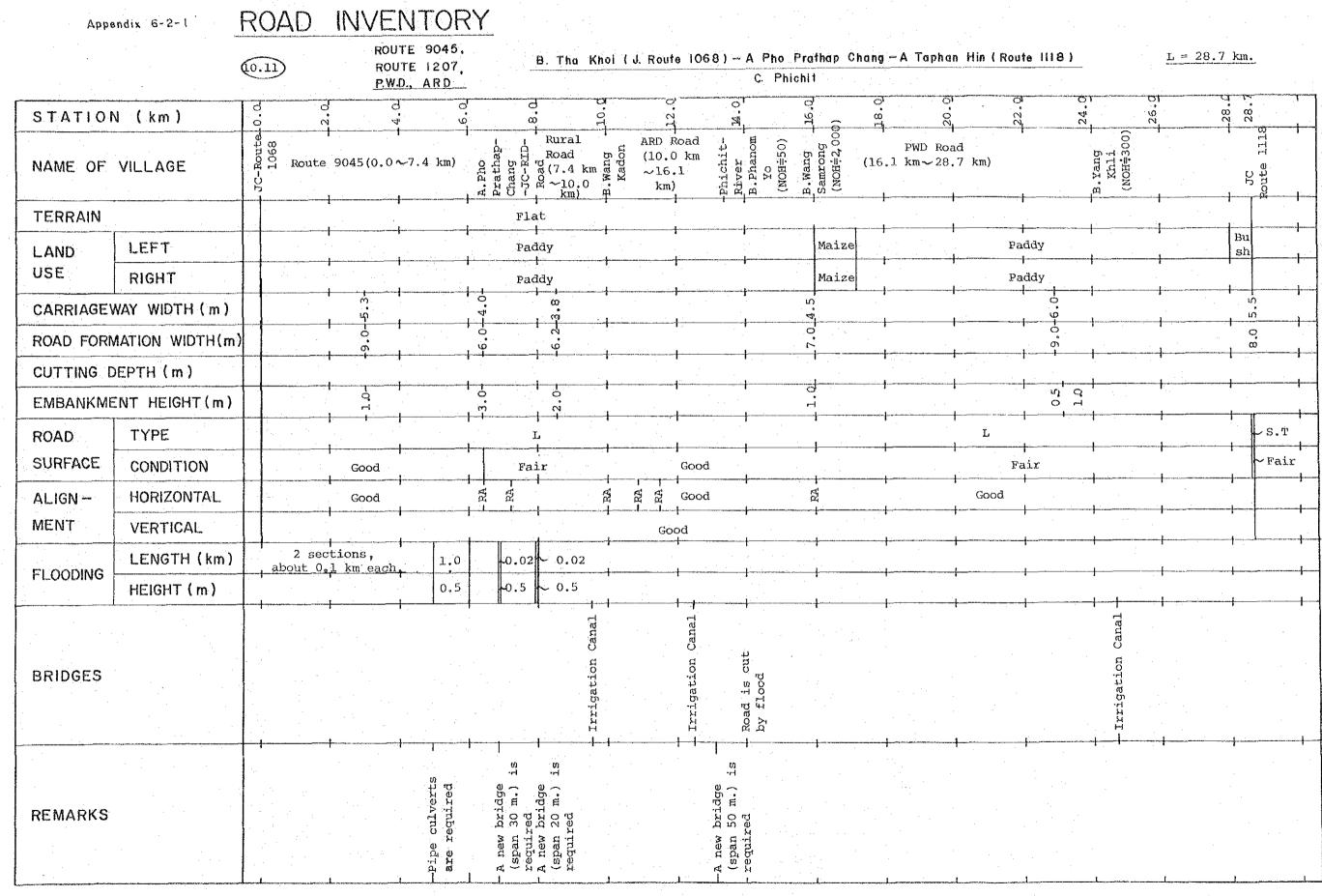
Appendix 6-2-1 ROAD INVENTORY

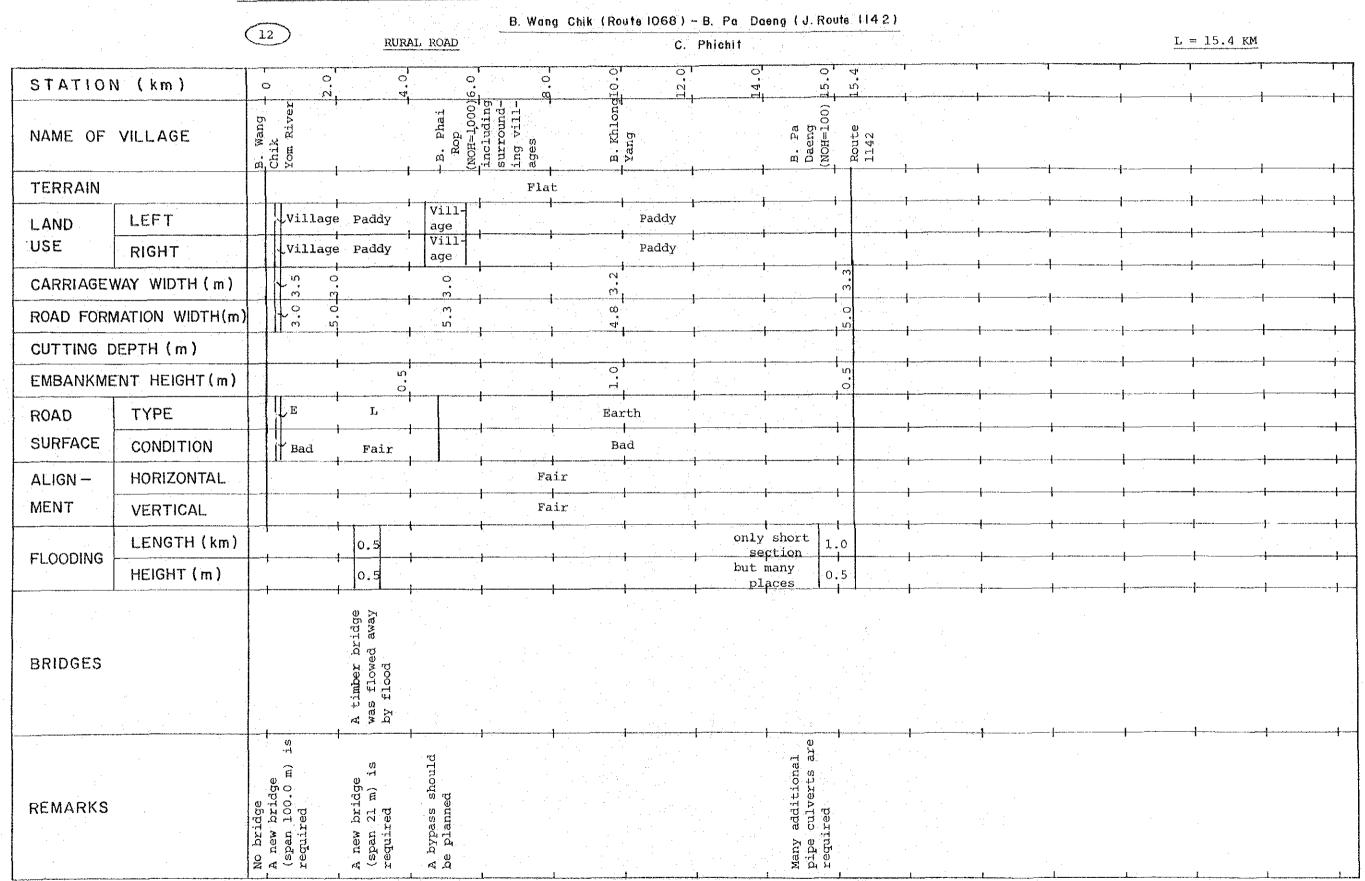


Appendix 6-2-1 ROAD INVENTORY









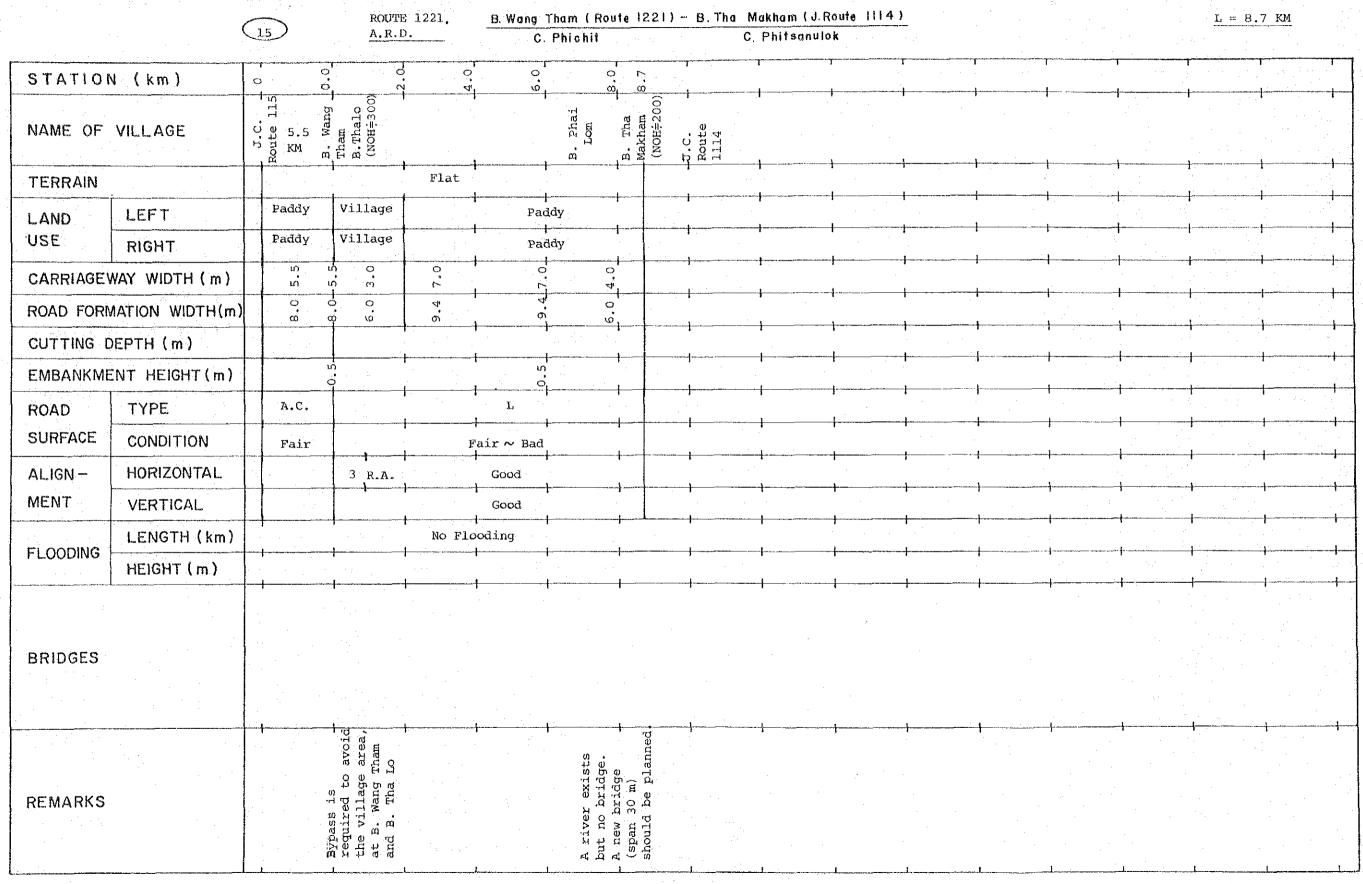
ROAD INVENTORY Appendix 6-2-1 PW.D. RURAL ROAD. A. Wang Sai Phum (J. Route 11) - B. Nong Phayom (J. Route 113) including a small C. Phichit L = 26.0 KMtrack road STATION (km) B. Pa
Daeng
Starting 2
Point of
Rural Road
(NOH=500) B. Nong Plong (NOH≒200) o Small track
edy for the control of B. Nong Nok Yang (NOH÷120). PWD Road Rural Road (0.0KM~7.1KM) (20.0KM 26.0KM) NAME OF VILLAGE F1at TERRAIN Paddy √Village LEFT Paddy Paddy LAND age USE Vi11-√ Village Paddy RIGHT Paddy Paddy 2.0 2.5 CARRIAGEWAY WIDTH (m) OLO ROAD FORMATION WIDTH(m) CUTTING DEPTH (m) ហភ EMBANKMENT HEIGHT (m) 00 Ö TYPE L **ROAD** SURFACE Good Bad CONDITION Fair Good Bad HORIZONTAL Good ALIGN -Good MENT Fair Good **VERTICAL** LENGTH (km) No Flooding FLOODING HEIGHT (m) .5x2.0) 5x2.0) 5x2.0) 5x2.0) (3.5x2.0)6 BRIDGES 3 (3 9 Replacing with 15 m span bridge is required Replacing with 15 m span bridge is required. REMARKS

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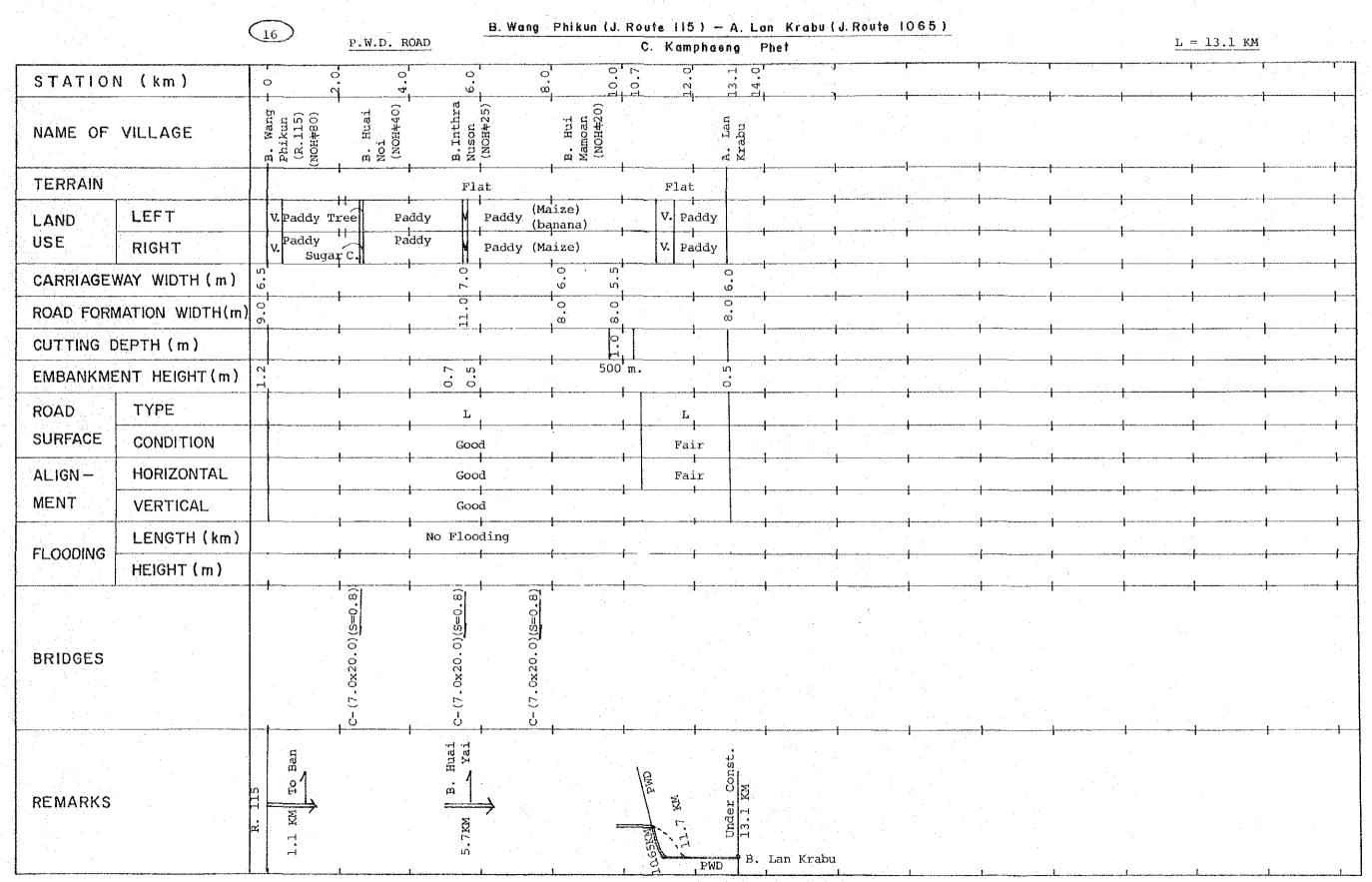
ROAD INVENTORY Appendix 6-2-1 B. Nong Khanak (J. Route II) - B. Wang Pong ROUTE 1191, RURAL ROAD $\overline{(14)}$ C. Phetchabun L = 25.2 KMROUTE 1205 C. Phichit ARD Road 500 51=HON STATION (km) Rural Road Route 1205 Route 1191 B.Wang Chanang NOH÷300 B.Khili Thep NAME OF VILLAGE Flat Rolling Flat **TERRAIN** ing Vi11-Bush , Village Village paddy Paddy Bush Paddy LEFT Paddy Lage Pad. LAND Vill USE Vill- Paddy Vill-RIGHT Paddy Village Village paddy Pad Bush Paddy Bush Bush age -age age ഗ പ 'n LΩ CARRIAGEWAY WIDTH (m) in o Ŋ ROAD FORMATION WIDTH(m) ιÓ CUTTING DEPTH (m) 0.5 0 EMBANKMENT HEIGHT (m) o o S.T. TYPE L S.T. ROAD SURFACE Fair Bad Fair Bad Bad CONDITION HORIZONTAL ALIGN-Fair MENT **VERTICAL** Bad Fair LENGTH (km) No Flooding FLOODING HEIGHT (m) 0. 5x7.0) BRIDGES REMARKS

Appendix 6-2-1 RC

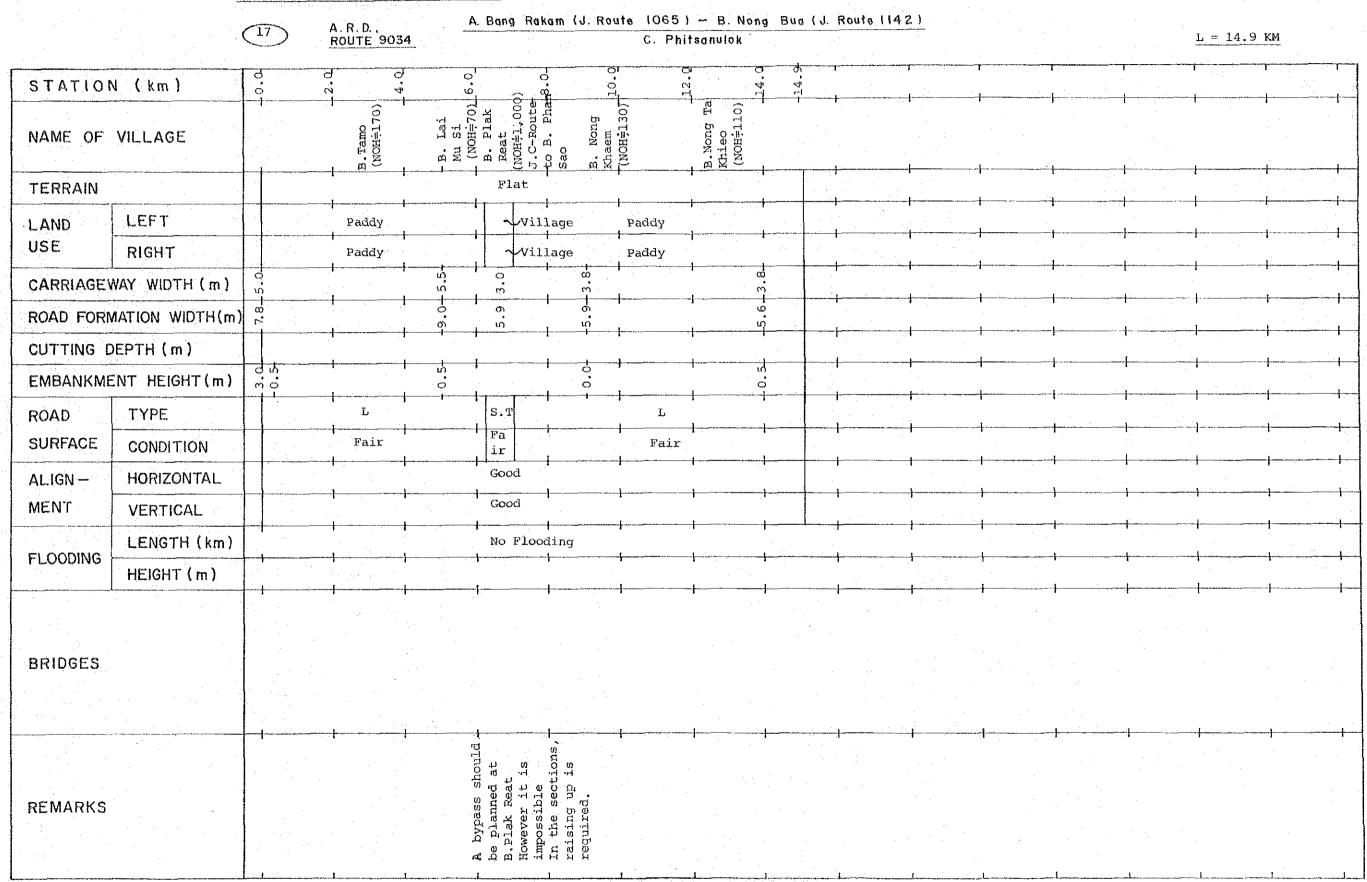
ROAD INVENTORY

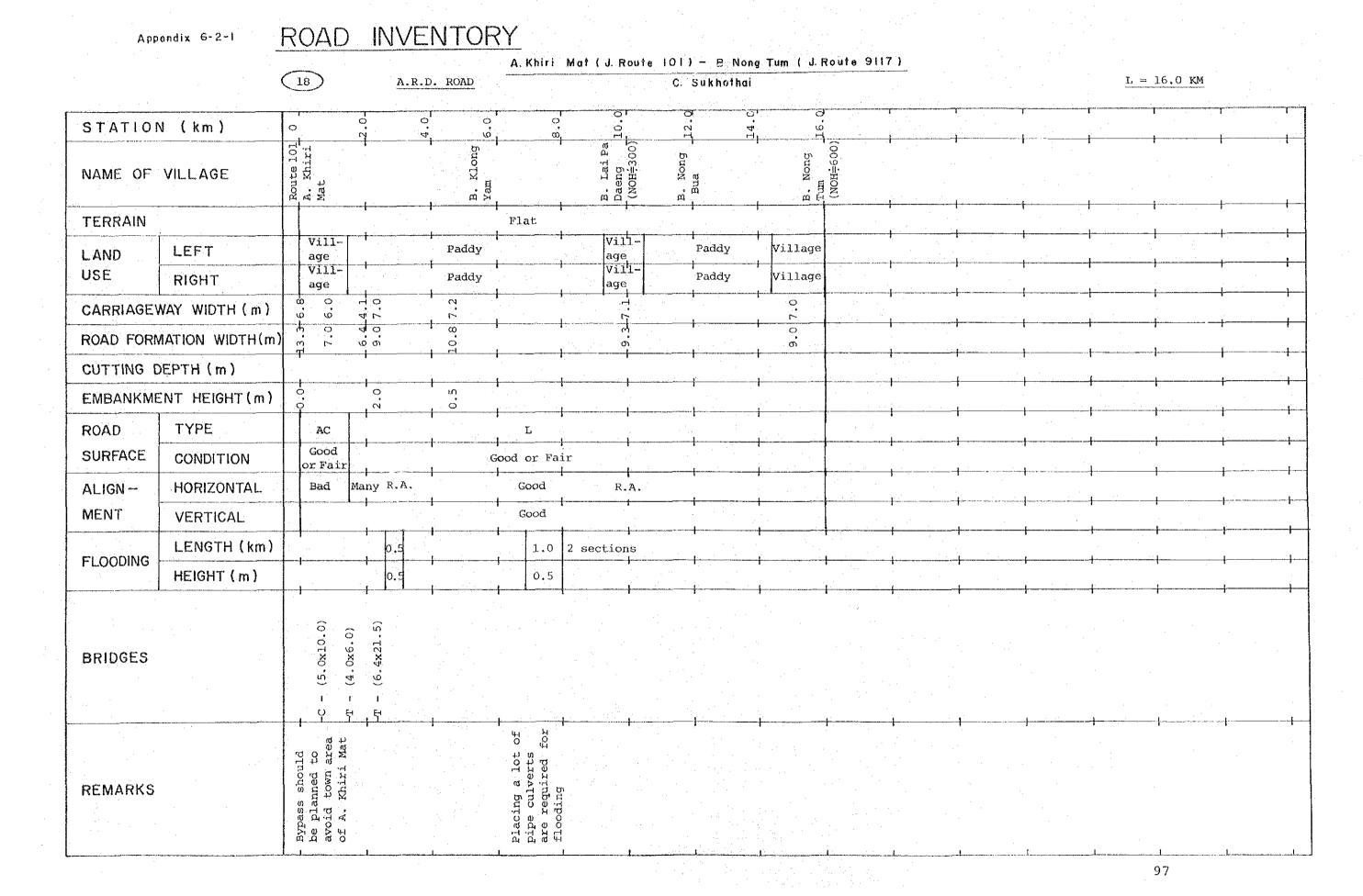


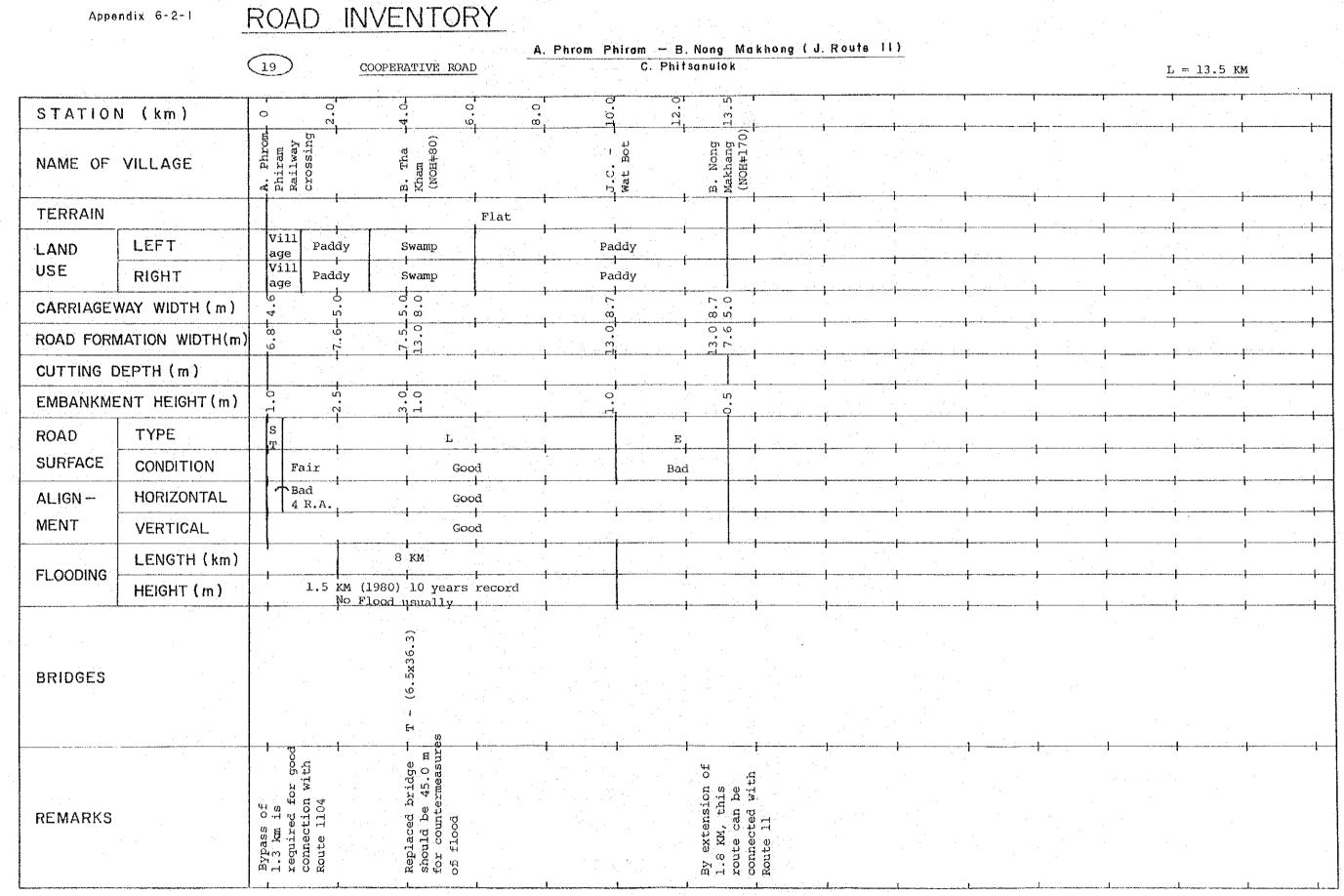
Appendix 6-2-1 ROAD INVENTORY



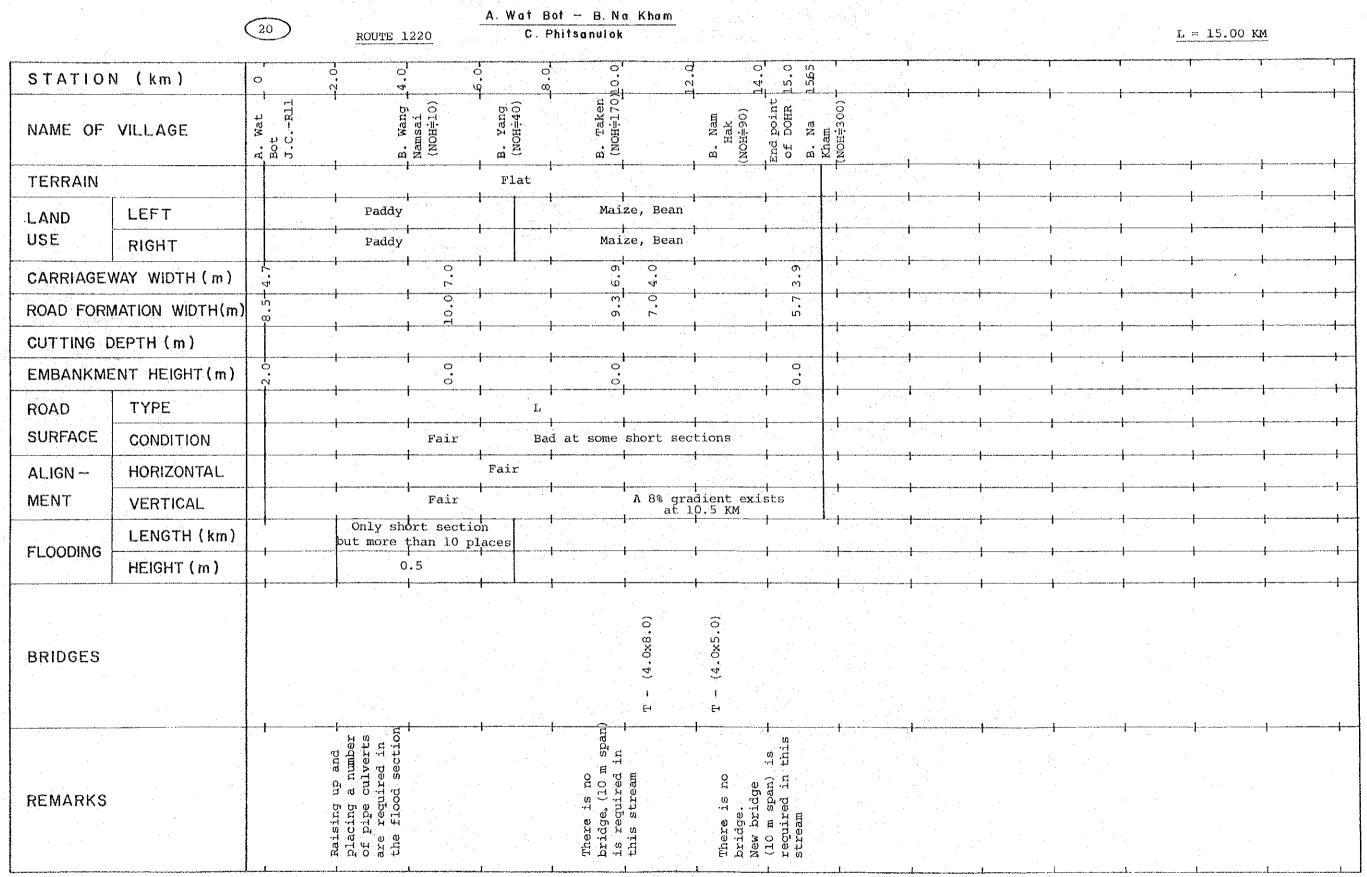
Appendix 6-2-1 ROAD INVENTORY

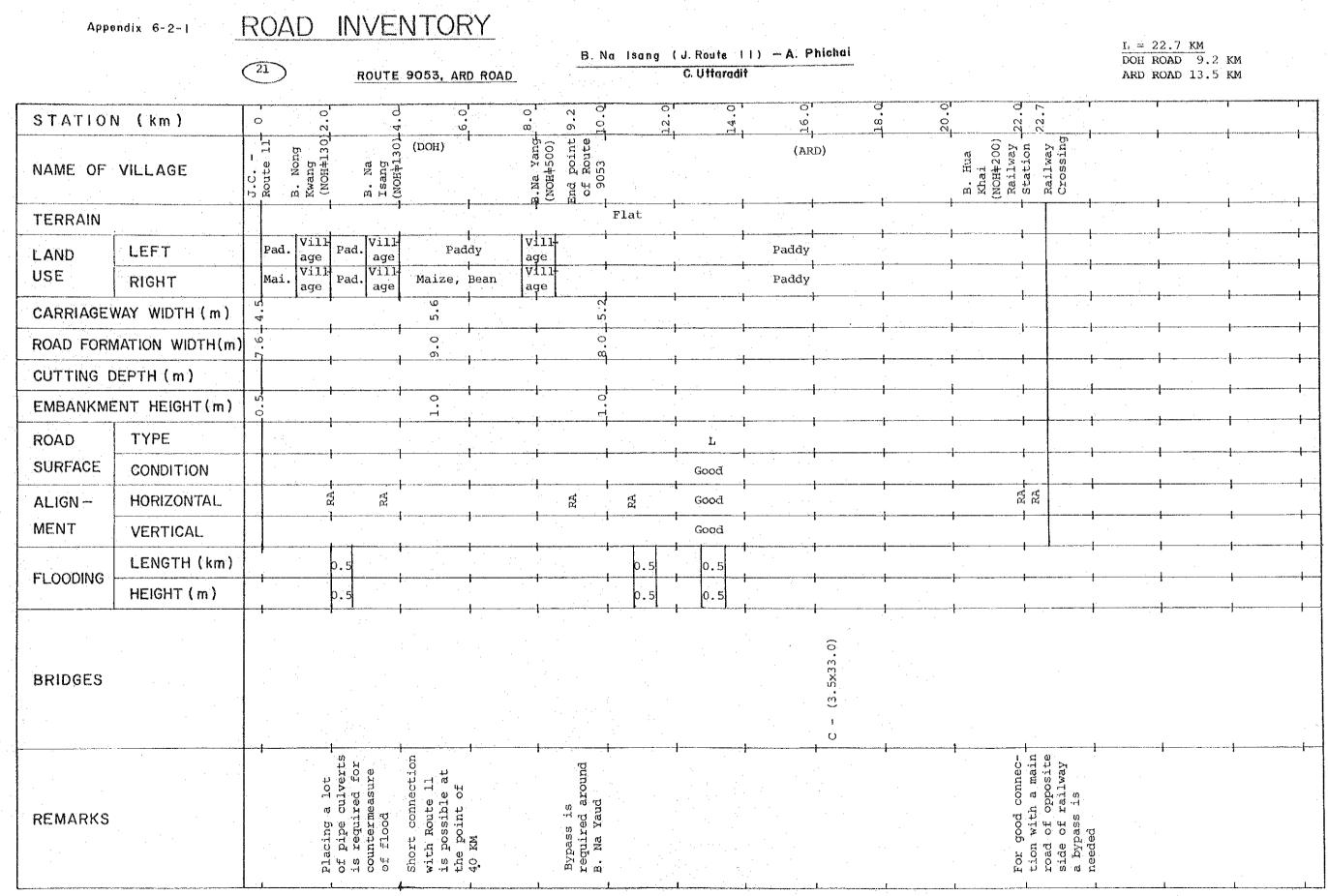






Appendix 6-2-1 ROAD INVENTORY





A. Phichai - A. Si Nakhon (22) A.R.D. ROAD C. Uttaradit C. Sukhothai L = 15.9 KM0 STATION (km) A.Phichaí J.C.-Changwat Road Raina-Croobe-essing A. Sina-Korn (ARD) J.C. -R.1104 NAME OF VILLAGE TERRAIN Flat Su. Village Paddy Paddy LEFT LAND C. USE Paddy Village Paddy RIGHT Beans CARRIAGEWAY WIDTH (m) Ŋ 0 0 ROAD FORMATION WIDTH(m) CUTTING DEPTH (m) 0 0 EMBANKMENT HEIGHT (m) TYPE ROAD S.T. S.T. SURFACE Fair CONDITION Good Good HORIZONTAL ALIGN -MENT Good **VERTICAL** LENGTH (km) No Flooding FLOODING HEIGHT (m) (8.0x204.0) (7.0x38.0) BRIDGES O Bypass from a point of 13.0 kM should be planned to avoid the town area of A. Si nakhon REMARKS

ROAD

Appendix 6-2-1

INVENTORY

INVENTORY ROAD Appendix 6-2-1 ROUTE 1113 * (23)B. Muang Kao (J. Route 12) - B. Doh Kao - Route 1048 - B. Muang Kao (J. Route 1201) including rural roads, C. Sukhothai cooperative roads, etc. L = 51.3 KMSTATION (km) 0 B. Mai Khon Sung (NOH÷170) Small track 5 (13.3KM ~16.8KM) 6 8 8 Co-operative Roads(A) DOH Road Small track NAME OF VILLAGE $(25.0 \text{ KM} \sim 35.0 \text{ KM})$ $(16.8 \sim 25.0)$ $(0.0 \text{ KM} \sim 13.3 \text{ KM})$ TERRAIN Flat LEFT Paddy LAND USE RIGHT Paddy 4.0 CARRIAGEWAY WIDTH (m) m ROAD FORMATION WIDTH(m) CUTTING DEPTH (m) 0 EMBANKMENT HEIGHT (m) A.C. TYPE ROAD L or E Fair **SURFACE** Fair Bad Bad CONDITION HORIZONTAL ALIGN -Good LR MENT **VERTICAL** Good Overflow occured Many short sections LENGTH (km) more than 10 places since embankment height is 0 FLOODING HEIGHT (m) 0.5 m. Height is 0 .0x8.0) (4.0x3.0) BRIDGES 5 EH EH of bridge 15.0 m REMARKS Required is 23.0 m

* Where there is no DOH road, inventory surveys were carried out on other agency roads.

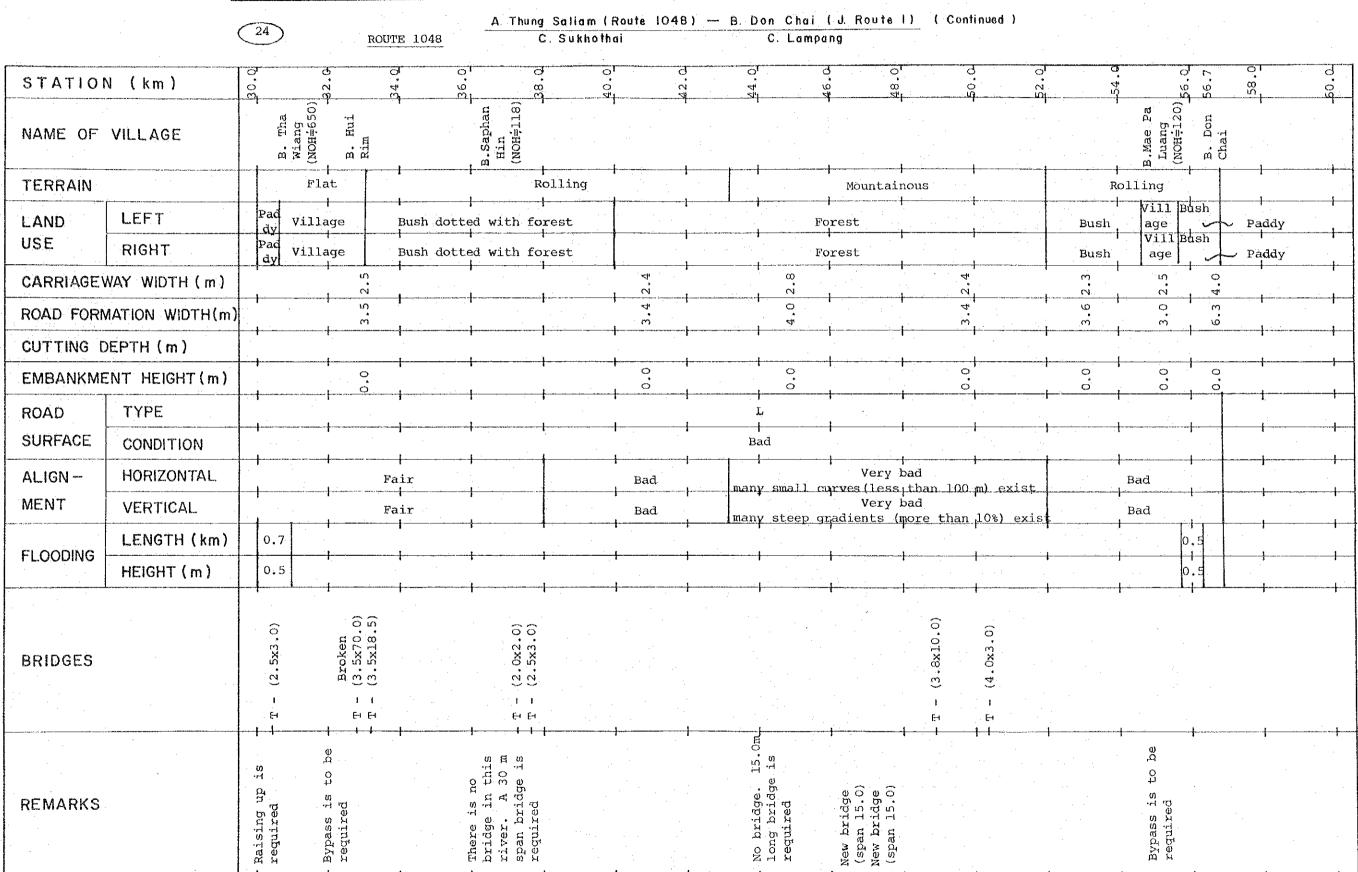
Appendix 6-2-1 ROAD INVENTORY

B. Muang Kao (J. Route 12) - B. Doh Kao - Route 1048 - B. Muang Kao (J. Route 1201) (Continued) $\overline{\left(23\right)}$ C. Sukhothai ROUTE 1113 L = 51.3 KM35.0 9 STATION (km) Co-operative Road (B) Small Rural Road Excluding the length of $(35.0 \text{ KM} \sim 43.6 \text{ KM})$ track Route 1048 $(46.0 \text{ KM} \sim 51.3 \text{ KM})$ Route 1048 (2.5 KM) NAME OF VILLAGE (44.0 KM ~ 46.4 KM) **TERRAIN** Flat LEFT Paddy Maize, Sesame, Cotton LAND USE RIGHT Paddy Maize, Sesame, Cotton 2.1 4.8 CARRIAGEWAY WIDTH (m) Ŋ. ROAD FORMATION WIDTH(m) CUTTING DEPTH (m) 0 \circ EMBANKMENT HEIGHT (m) o Ö E or L TYPE ROAD Bad Bad SURFACE Bad Bad CONDITION HORIZONTAL ALIGN -Good MENT VERTICAL Good short section, LENGTH (km) 1.0 but many places FLOODING HEIGHT (m) 0.5 Excluding the length of 5x2.0) Route 1048 (2.5 KM)BRIDGES (2 REMARKS

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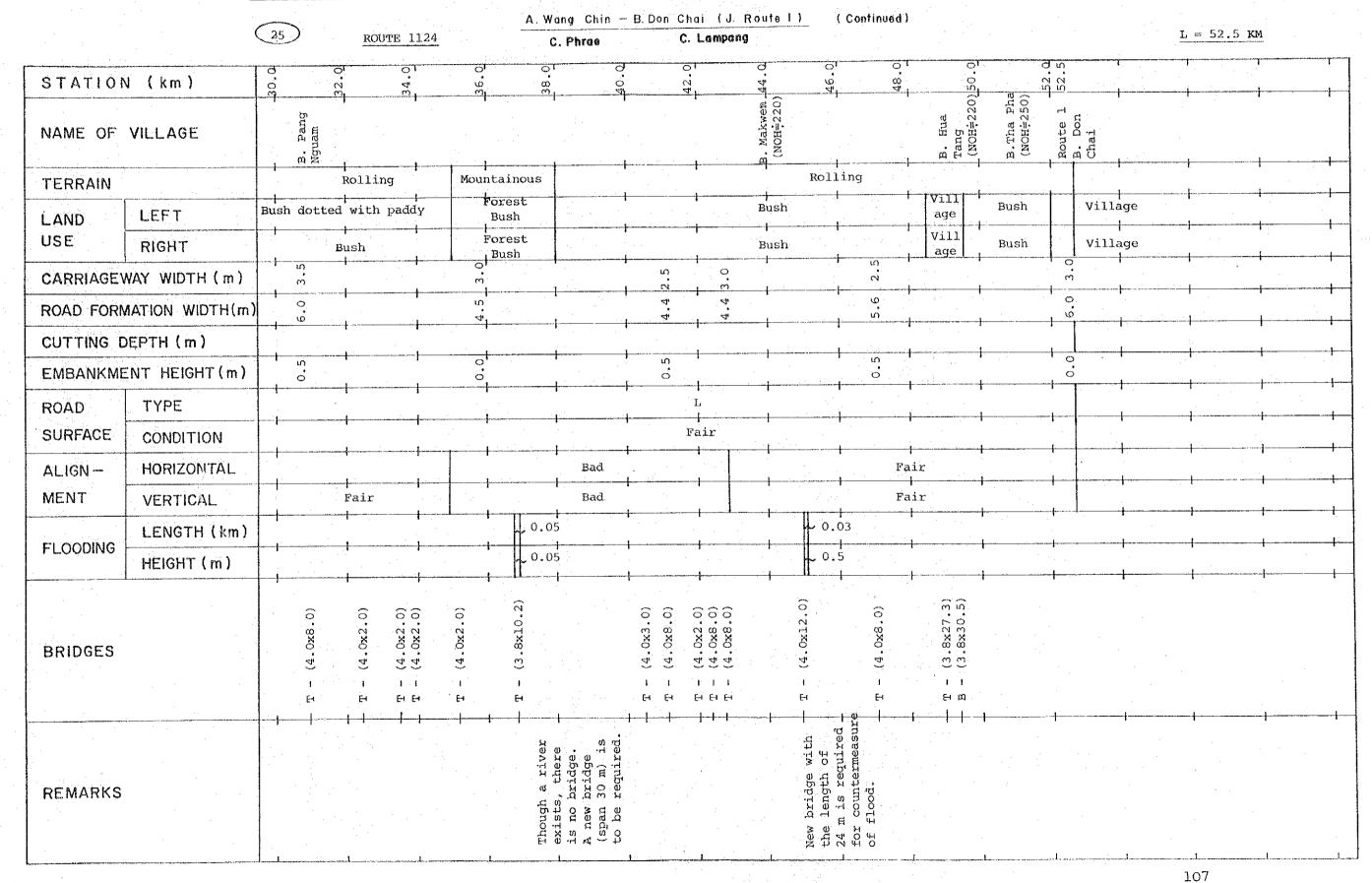
INVENTORY ROAD Appendix 6-2-1 L = 56.7 KMStarting point is a end point A. Thung Sallam (Route 1048) - B. Don Chai (J. Route 1) \bigcirc 24 \bigcirc ROUTE 1048 of pavement at B. Klang Dong C. Sukhothai C. Lampang B. Sall. Wan (NOH≹230) STATION (km) 0 B. Mae Pue (NOE+300) NAME OF VILLAGE TERRAIN Rolling Flat LEFT Bush Forest Paddy LAND USE RIGHT Bush. Forest Paddy ß Q. CARRIAGEWAY WIDTH (m) 0 3.8 ROAD FORMATION WIDTH(m) ŗ, CUTTING DEPTH (m) 0 0.0 EMBANKMENT HEIGHT (m) 0 TYPE ROAD SURFACE CONDITION Fair Bad HORIZONTAL ALIGN -Fair A steep gradient of MENT **VERTICAL** Fair Bad Undulated alignment more than 8% exists LENGTH (km) No Flooding **FLOODING** HEIGHT (m) (2.5x4.0) (2.5x11.2) (2.5x5.0) (4.5x24.5) (4.0x12.0) (4.0x4.0)(4.0x2.0)(2.0x2.0)BRIDGES 1 1 HHE -There is no bridge in this river. A 38 m span bridge is needed REMARKS

Appendix 6-2-1 ROAD INVENTORY



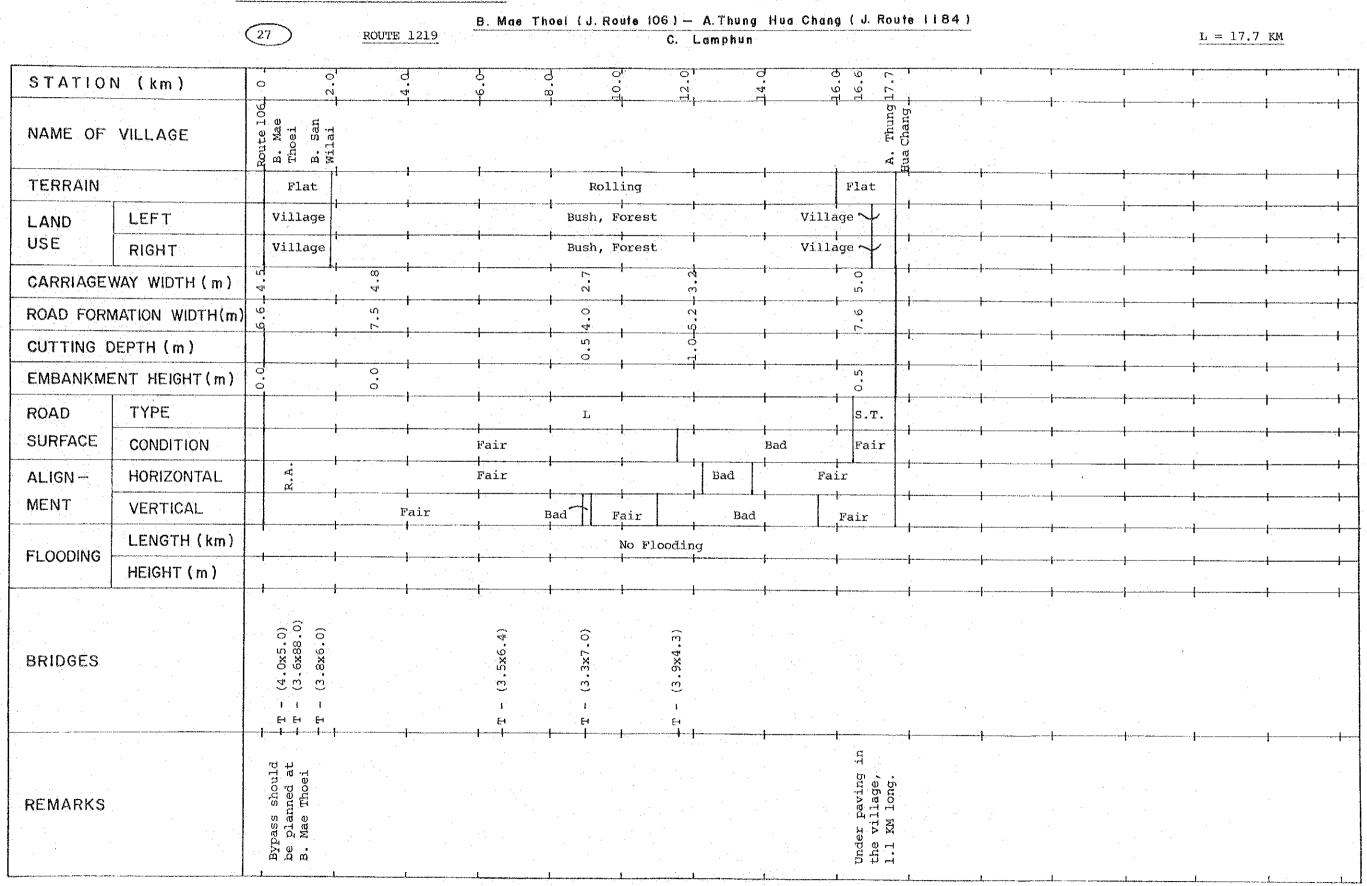
INVENTORY ROAD Appendix 6-2-1 ROUTE 1124 A. Wang Chin - B. Don Chai (J. Route 1) 25. including Rural road at A. Wang Chin C. Lampang L = 52.5 KMा 0.0 STATION (km) ral road) Zero point of R.1124 B. Mae Kratom (NOH=330) B. Pong Tut NOH=60) A. Wang Chin(Ru-Mae La NAME OF VILLAGE Rolling Flat Rolling TERRAIN Village Village Bu-Vill Vill Bush Vill Bush Vill LEFT Village Bush dotted with maize Bush Bush dotted with paddy LAND age Paddy age Bush Vill Paddy age age Village Village Bu-Vill Vil1 USE Bush Vill Village RIGHT Bush Bush dotted with paddy Bush dotted with paddy Paddy age sh age Bush Paddy age age 2.6 ۳. س CARRIAGEWAY WIDTH (m) 5 m ROAD FORMATION WIDTH(m) ហ CUTTING DEPTH (m) 0.0 0.6 Ŋ ω EMBANKMENT HEIGHT (m) ं S.T. LST. L **TYPE** ROAD SURFACE CONDITION Fair Fair FairFair Bad HORIZONTAL ALIGN -Fair 2 RA MENT **VERTICAL** Fair Fair Bad Fair Bad Fair Bridge site LENGTH (km) in suffered a great disaster FLOODING HEIGHT (m) (4.0x27.0) (4.0x2.5) (4.0x12.0) (4.0x3.0) (4.0x16.0) (4.0x2.0) 0x12.0(4.5x46.0) (4.0x4.0) (4.0x3.0) (4.0x3.0)BRIDGES . (4. 寸 寸 4 (0, (0) ·1 I 1 1 1 1 1 щн E4 E4 E4 FIE REMARKS

Appendix 6-2-1 ROAD INVENTORY

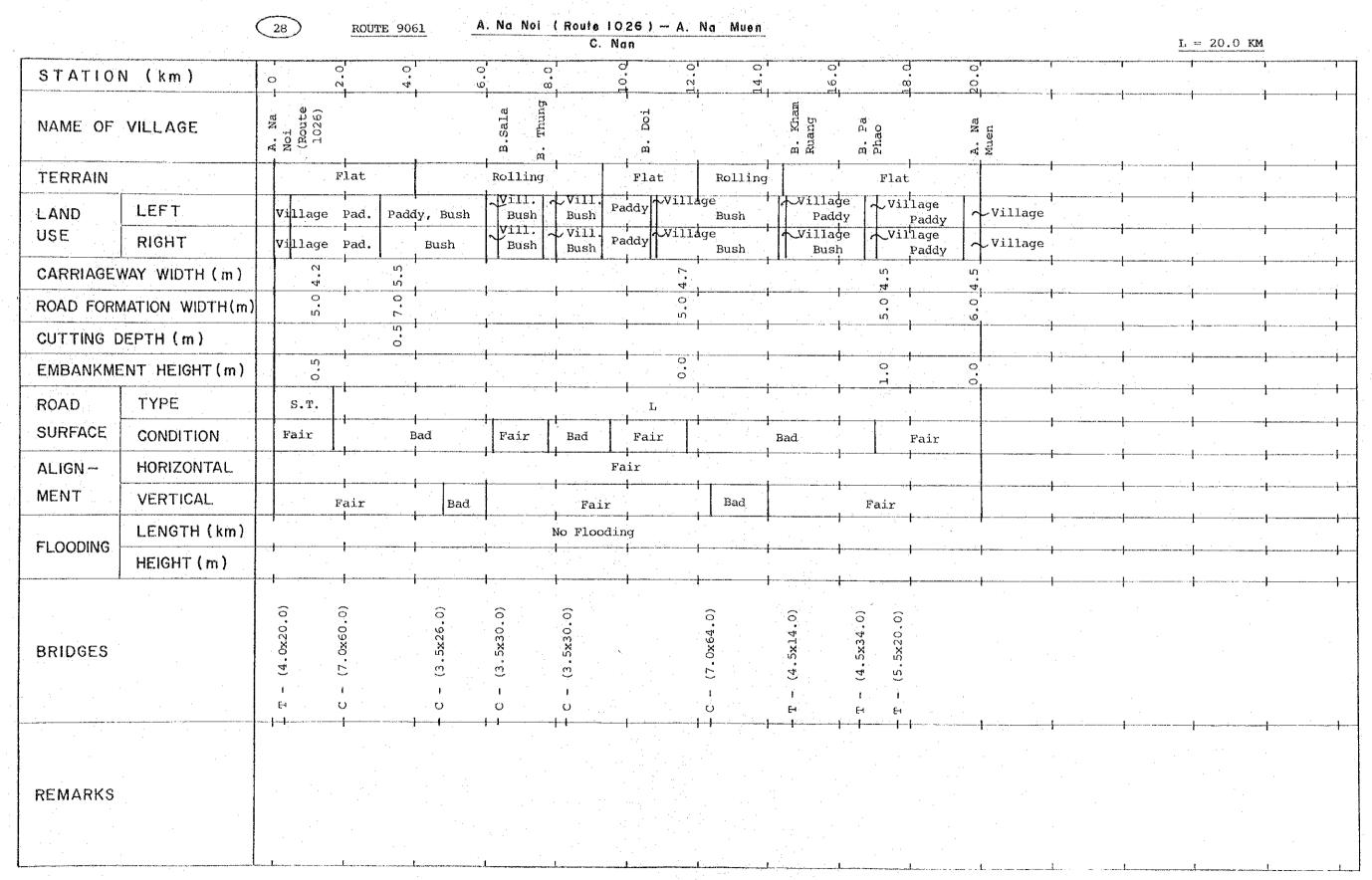


ROAD INVENTORY Appendix 6-2-1 A. Li (J. Route 106) - B. Puang (Route 1235) 26 **ROUTE 1184** L = 18.5 KMC. Lamphun 18.5 o STATION (km) 0 B. Hom To₂ -(NOH+100) -Route A. Li NAME OF VILLAGE TERRAIN Flat Rolling Flat Paddy Village, Village LEFT LAND Village Bush, Forest Bush USE Paddy RIGHT Village Bush, Forest Bush Village ထ CARRIAGEWAY WIDTH (m) ROAD FORMATION WIDTH(m) CUTTING DEPTH (m) EMBANKMENT HEIGHT (m) ROAD TYPE S.T. SURFACE Fair Bad CONDITION HORIZONTAL ALIGN -Fair Bad Fair **MENT VERTICAL** Fair Bad Fair LENGTH (km) 1.0 **FLOODING** 0.5 HEIGHT (m) (3.5x6.0) Conc. (3.5x5.0) (3.0x3.5) (3.5x17.0) 0x16.0)BRIDGES REMARKS

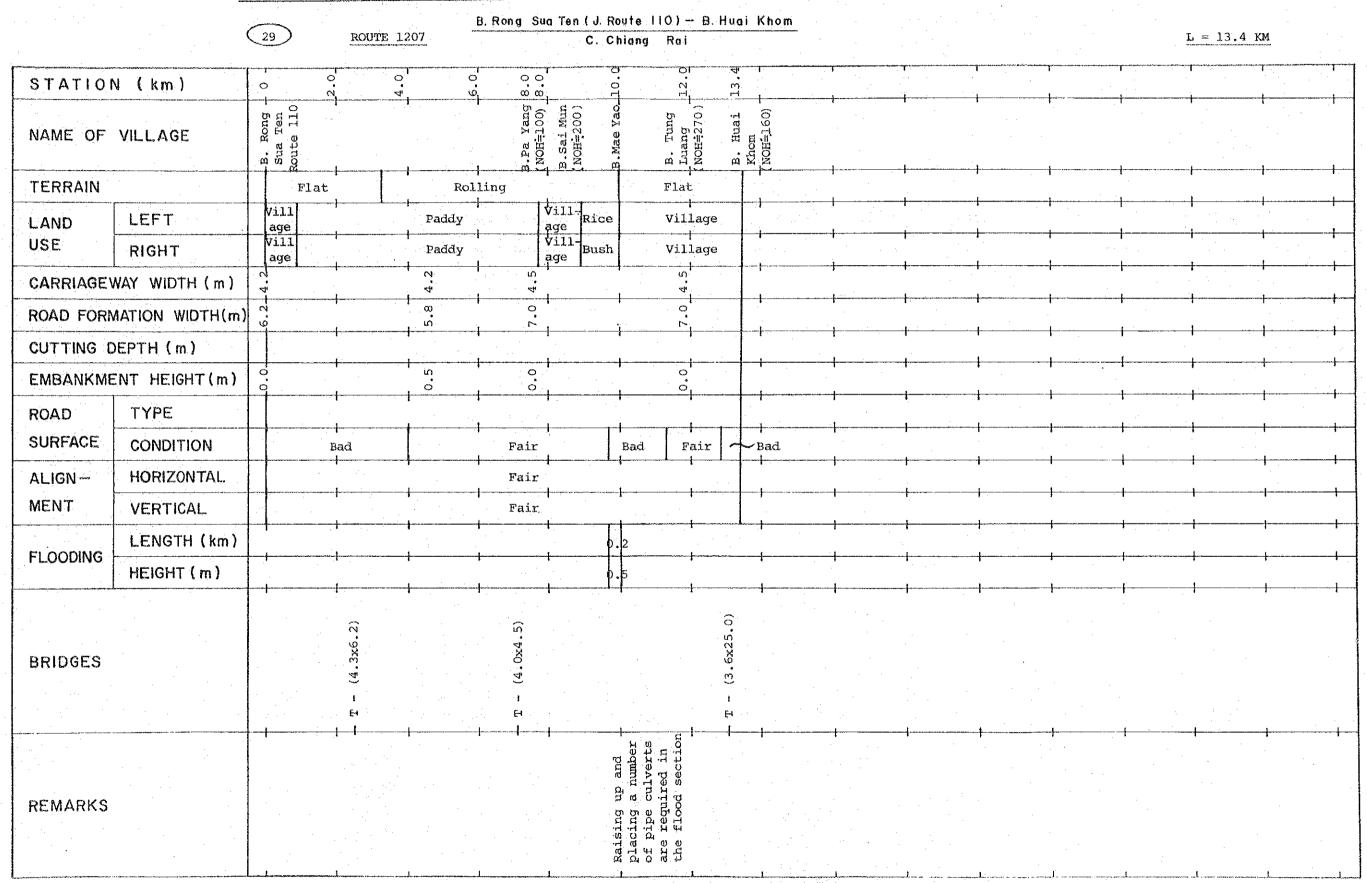
Appendix 6-2-1 ROAD INVENTORY



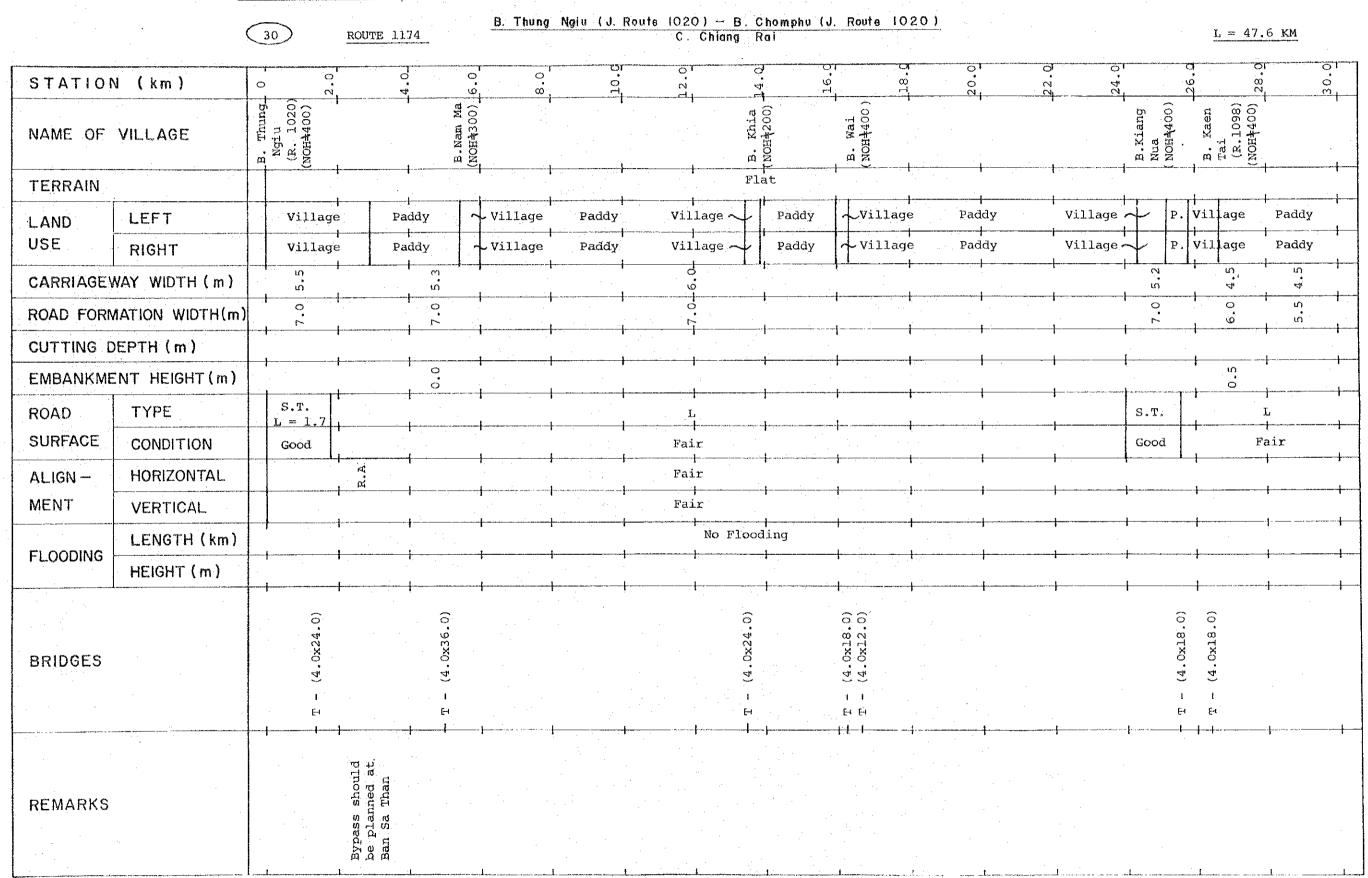
Appendix 6-2-1 ROAD INVENTORY



Appendix 6-2-1 ROAD INVENTORY

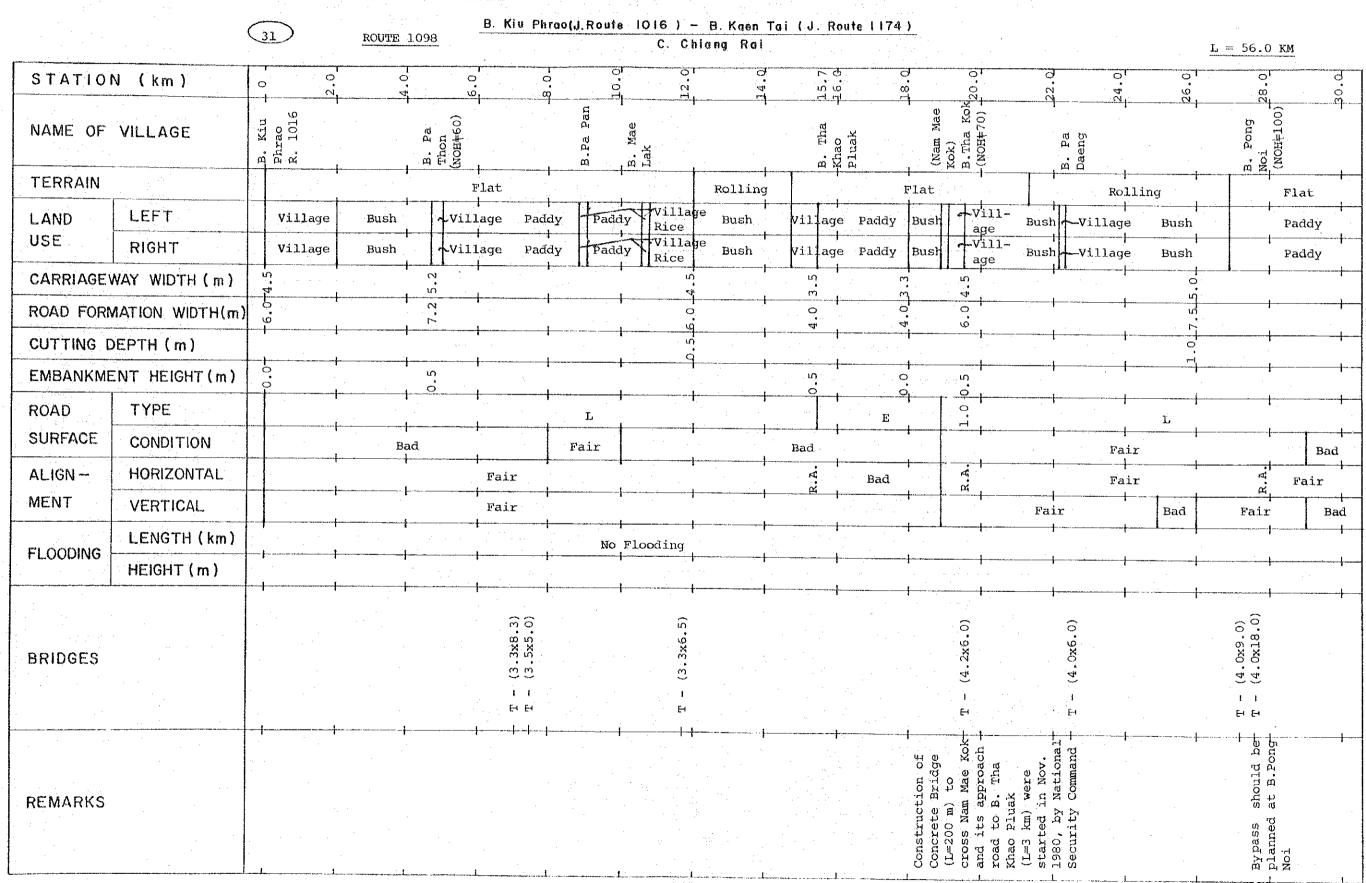


Appendix 6-2-1 ROAD INVENTORY



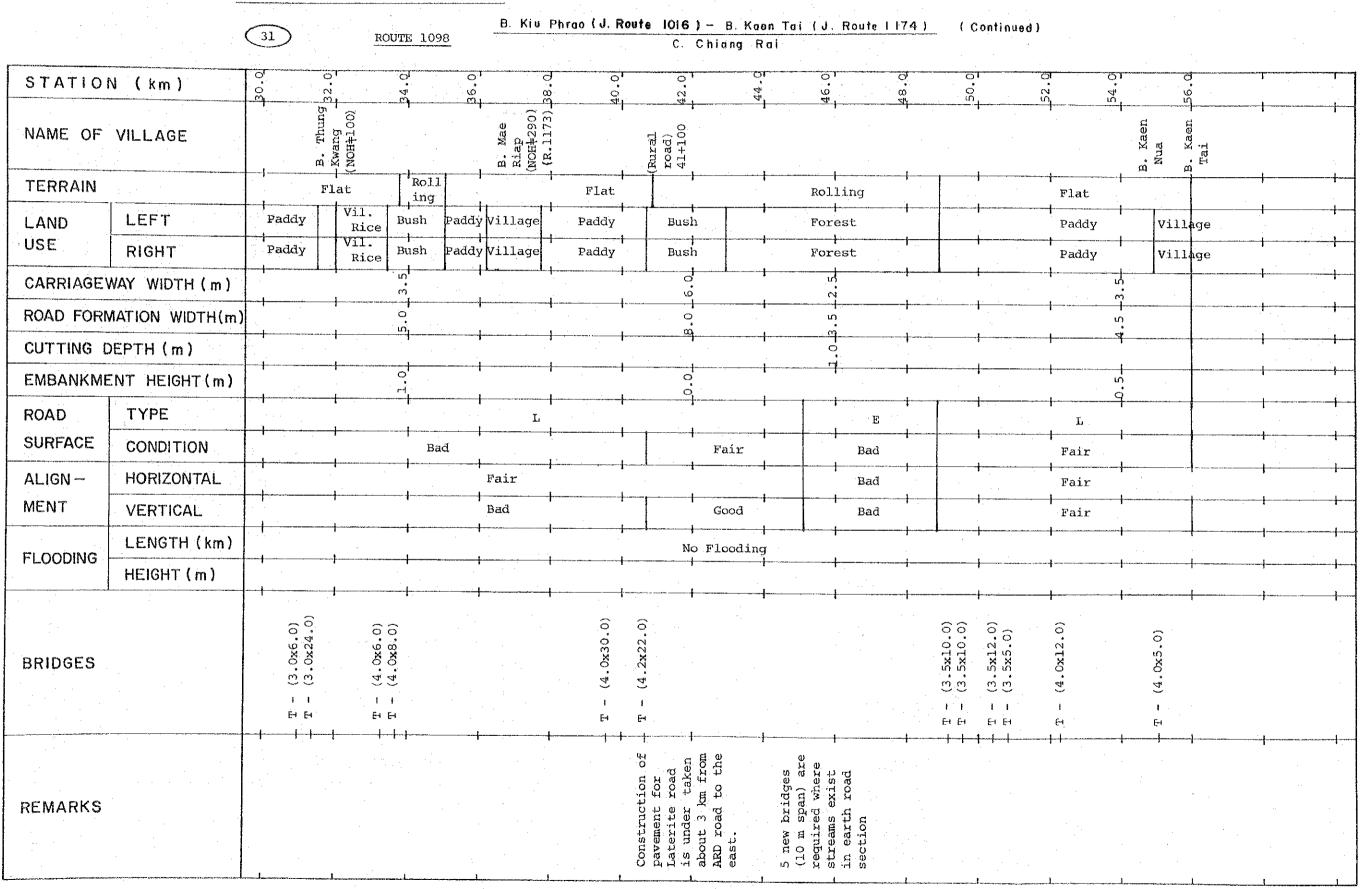
ROAD INVENTORY Appendix 6-2-1 B. Thung Ngiu (J. Route 1020) - B. Chomphu (J. Route 1020) (Continued) **(**30 € ROUTE 1174 C. Chiang Rai STATION (km) B. So (NOE+500) Chom Phu NAME OF VILLAGE **TERRAIN** Flat Vill LEFT Pad-Paddy Village **Vil**lage Paddy LAND age Villdy Pad-USE Paddy Village Paddy RIGHT Village age CARRIAGEWAY WIDTH (m) ROAD FORMATION WIDTH(m) CUTTING DEPTH (m) EMBANKMENT HEIGHT (m) L TYPE ROAD SURFACE Fair Bad Fair Bad CONDITION 2R.A Fair HORIZONTAL ALIGN -Fair MENT VERTICAL Q LENGTH (km) ທ FLOODING ហ HEIGHT (m) o 2x10.6) (4.5x18.0) (4.5x13.0) .5x7.0) BRIDGES HH H REMARKS

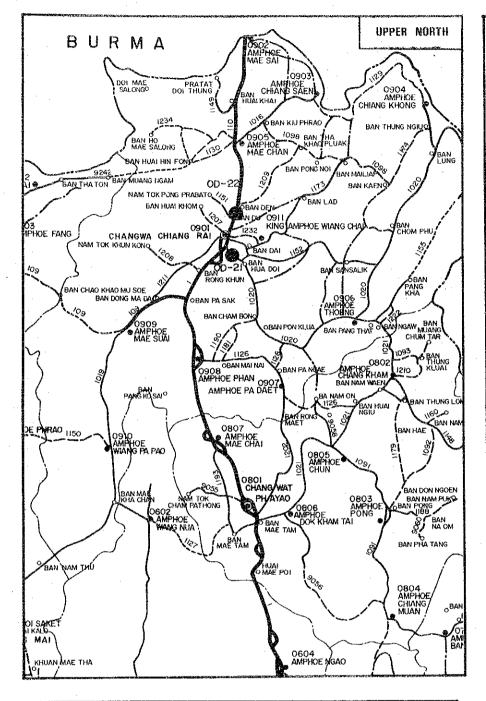
Appendix 6-2-1 ROAD INVENTORY

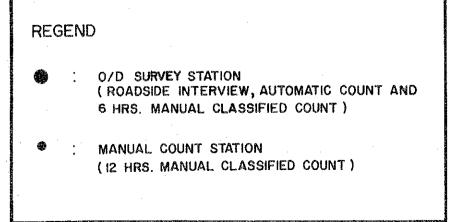


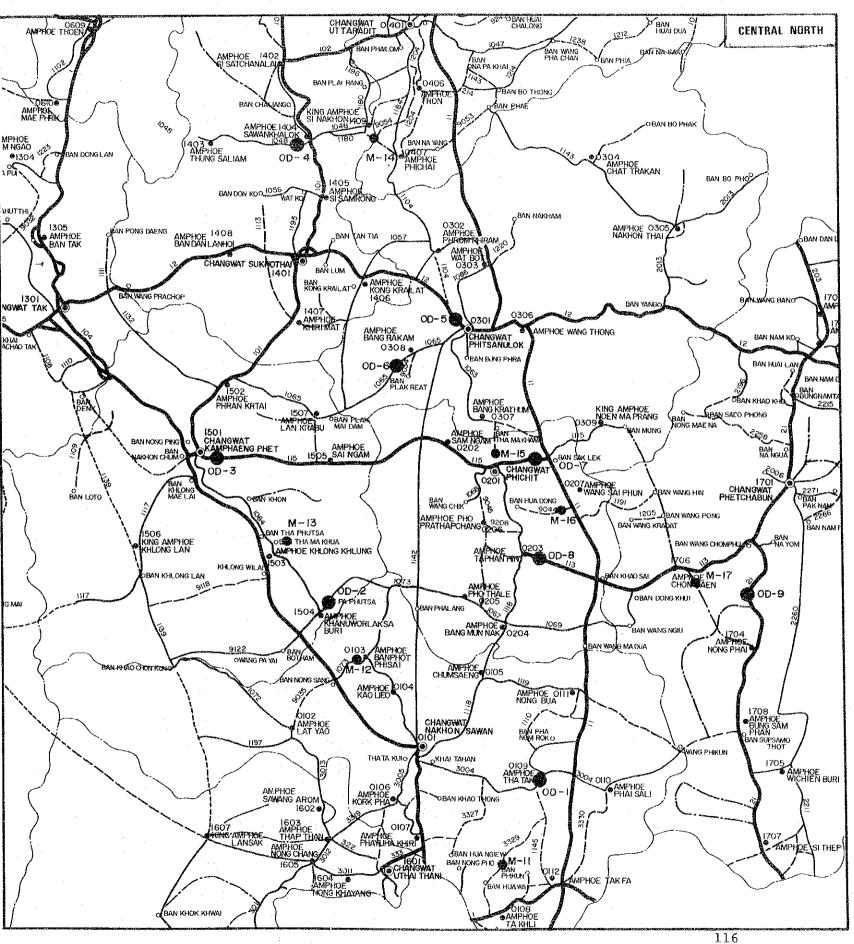
Appendix 6-2-1

ROAD INVENTORY









ROAD DEVELOPMENT STUDY IN THE WORTH REGION

อ/อ รบลิงริช อ	DUESTIONNAIRE				
ากบนค์สางาวณะ ากบนค์โดบสาว วกบาวทุก บละส่วนบุคคล Buses Trucks	Project Road No.	de delta q i legen d' pap (pap (p line) de C y y y por de line en e	мерения в настранения и нестранения не общения от мерения не общения в нестранения в нестранения в нестранения		
Passenger cars	Station No. Direction		PASSENGER CARS ONLY a	พรับรถยบค์ส่วนบุคคลอย่างเคียว	
รับกับกุ กทางเรีย	DateTime	8)	What is your trip purpos จุดประสงค์ในการเดินทางของท่า	e ? บท็ออะไร?	
Taxi Light	Mark		□ Work □ H	ome 🔲 Business/0 ຂັບນຳນ ລຸງກິຈ/ສາຫຸກ	
Unann 4 ab 4-wheel	บีทอ Model		🗌 Shopeing . 🌐 S ซื้อลิบคา ส	ocial/Recrestional งคบ/พักษ์อบ	
ากบนด์สานบุคคล Private Car บนาดกลาง Ledium บาวทก 6 ล้อ	γu		BUS ONLY ลำหรับวถโดยลา		
6-wheel	Engine Size CC. ขนาดเครื่องจักร H.P.แรงมา	9)	Passenger capacity of bu จำนวนผู้โดยสาร	spassengers คน	
ขนาดใหญ่ บากก าo ล้อ Heavy 10-wheel	Type of ruel Gas Diesel Oil ชนิดของเชื่อเหล็ง แก๊ซ บ้ามันทีเซล	· ·	TRUCKS ONLY สำหรับรถบรร	ทุกอย่าง เดียา	
Asavy To-Silling		10)	Weight of empty truck บ้านบักรถเปล่า	Tons ทีบ	
วกเทวสเสอา Trailer		11)	Load capacity of truck _ บาทนักรถบรรทุกอยางเคียว	Tons ดับ	Legal นาทบัดรดบรรทุกภามกฎหมาย
l) Where was your origin of this trip ? ทางเริ่มออกเต็บทางบาจากไทบ?		12)	Jeight of Cargo บาทษักลิบคา	Tons	
	Changuat รับหวัด	13)	Volume of cargo บริมาณของลิบคำที่บรรทุกมา	Cບ. ໝ. ຈູກນາຄກ໌ເນຕຣ	
2) What is your final descination ? (กอก จุดหมายปลายทางลุกทายของทางอยู่ที่ไหน? (บอก	nes of เอะก or village) เชื่อเมืองหรือหมูบาน)		☐ Empty ☐ ½ truck		ruck []full
Tambon Ambnoe คำบุล กำเภอ	Changwat รับหวัด	14)	Nature of cargo (Specify) ชนิทซองลินคาที่บรรทุกมา (บอกซื้อ	ของสินค้า)	
3) Which route did you take before the pr เล้นทางไทบที่ทานใช้ก่อนสายทางนี้?	esent one ?	•	Rice vin	Sugar Cane จ๊อย	🗌 Seed Cotton เบล็คฝ้าย
4) Which route will you take after this ? ท่านจะใช้เล็บทางไทนต่อจากทางสายนี้?			∏ Maize / ขาวโหก	Cassava บันสาปะหลัง	Livestock บ่กุลัตว์
5) Have you made any stop since you left ท่านแวะที่ไหบบาบางหรือเปล่าก่อบที่จะมาถึงที่นี้	? No Yes	1	D Beans ນັກ	🗌 Tobacco Leaves - ใบยาลุบ	☐ Forest Products ผลิตผลปาไม
If "Yes" where ? ถ้าแวะ แวะที่ไทบ?			other Agricultural Products ผูบีดผลทวงเกษกรถี่ย ๆ	🗍 Other Industrial Products ผลิตผลิทวงอุตลาหกรรมอื่น ๆ	ດ ☐ Gasoline and Oil ກົວ⊍ ແລະ ນ້ຳນັບ
6) Will you make any necessary stop befor ท่านจะแวะที่ไทบอีกบ้างหรือไม่?	e getting there ? No Yes	(] Fishery Products ผลิตผลทางการบระบง	Mining Products ผลิตผลเหมืองแร	[] Household Necessaries เครื่องใช้จำเบ็บใบบ้าน
If "Yes" where ?] Groceries ของข่า	[] Others อื่น ๆ	
7) Number of occupants in the yehicle (in บอกจำนวนคนโดยสารรวมทั้งกินซับ					

ROAD DEVELOPMENT STUDY IN THE NORTH REGION MANUAL CLASSIFIED COUNTS

	Date Time													Stat: Direc		Vo				
	T 1	· 2	3	4	5	6	7	-8	9	10	11	12	13	14	15	16	17	18	19	20
	21	22	23	24	25	26	27	28	29	30	31	32	. 33	34	35	36	37	38	39	40
Motor-Cycle	41	42	43	44	45	46	47	48	49	50	-51	52	53.		55	56	57		. 59	60
รถิจักรยานขนต์	61	62	63	64	65	66.	67	68	69	70		72	73	74	75	76	7.7	78	79	80
	81	82	83	84	85	86	87	88	89	90	-	92	93	94	95	96	97	98	99	100
	1	2	. 3	4	5	6	7	8	ō	10	11	12	13	14	15	16	1.7	18	19	20
Passenger	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
Cars & Taxi	41	42	43	44	45	46	47	48	49	50	51	52	53	54	· 55	56	57	58	59	60
-ถับนต์, แหกชื่	61	. 62	63	64	65	66	67	68	69	70	71	72	73	. 74	75	76	77	78	79	80
	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	9,7	98	99	100
	1	2	3	. 4	5	6	7	8	9	10	11	12	13	14	15	16	1.7	18	19	20
Light Bus	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	- 36	37	38	39	40
วกโคยสาวเล็ก	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
Medium Bus	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
วถโดยสาว - ขนาดภลาง	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
Heavy Bus วถโดยสาวขนาด ไทย	1	2	3	4	5 :	. 6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Pick Up	1	2	. 3	4	5	6	7.	8	9	10	11	12	13	14	15	16	17	18	19	20
Truck	21	22	23	24	25	26	2,7	28	29	30	31.	32	33	34	35	36	37	38	39	40
งบอกอกรรม์บ	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
4-Wheel	1	2	3	4	5	6	7 .	 8	9	1.0	11	12	. 13	14	15	16	17	18	. 19	20
Truck วถบรรทุก ๔ ล็อ	21	22	23	24						3,0	31	32		34		36	37	38	39	4,0
6-Wheel	i	2	3	4	5	6	7	8	9	10	11	12	13] 4	15.	16	17	18	19	20
Truck	21	2.2	2,3	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
פה ל חמכנתחנ	41	42	43	44	4.5	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
10-Wheel	1	2	3	4	5	6	7	8	9	10	1,1	12	13	14	15	16	17	18	19	20
Truck and	21	22	23	24	25.	26	27	28	29	. 30	31	32	-33	34	35	36	37	38	39	40
Over	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
วแกวงม์น 🍲 ข้อ	61	62	63	64	65	66	67.	68	69	70	71	72	73	74	75	76	77	78	79	80
และศ์โหญ่กว่า	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100

Appendix 6-3-3 TRAFFIC COMPOSITION AT O/D SURVEY POINT

Survey	Road $\frac{1}{}$	Passe	enger Tra	ffic	Frei	ght Traff	ic
Point	Class	P/C	L/B	н/в	L/T	M/T	H/T
OD-1	3	55.4	33.8	10.8	53.0	31.0	16.0
OD-2	4	17.0	83.0		$(43.4)^{\frac{2}{-}}$	$(14.0)^{\frac{2}{-}}$	$(42.6)^{\frac{2}{3}}$
OD-3	2	58.0	34.9	7.1	54.9	17.9	27.2
OD-4	4	23.9	66.7	9.4	53.6	23.6	22.8
OD-5	1	54.0	34.8	11.2	35.8	40.3	23.9
OD-6	4	24.4	65.4	10.3	51.2	43.8	5.0
OD-7	2	60.7	29.8	9.6	53.1	25.6	21.3
3-do	2	74.0	21.8	4.3	54.5	26.0	19.5
OD-9	1	62.6	13.1	24.3	48.7	23.1	28.2
OD-11	3	40.1	52.2	7.6	45.4	42.4	12.2
OD-12	2	61.5	33.3	5.2	54.1	29.8	16.1

Note: 1/ Road Class 1. National Highway (primary)

2. National Highway (secondary)

3. Provincial Highway (paved)

4. Provincial Highway (unpaved)

2/ The figure of freight traffic composition at OD-2 includes heavy trucks loaded construction materials to improve Route 1073.

Appendix 6-3-3 Appendix 6-3-4

Appendix 6-3-4 COUNTED TRAFFIC AT SURVEY STATION

O/D STAT	ION							11.	(Vehicle/8 hrs)				
Station		Passen	ger Tra	ffic		Freic	tht Tr	affic	Sub				
Code	P/C	L/B	н/в	(Total)	L/T	M/T	H/T	(Total)	Total	M/C	Total		
OD-1	128	78	25	(231)	89	52	27	(1.68)	399	21.6	615		
OD-2	8	39		(47)	62	20	61	(143)	190	272	462		
OD-3	228	137	28	(393)	273	89	135	(497)	890	603	1,493		
OD-4	38	106	15	(159)	59	26	25	(110)	269	131	400		
OD-5	363	234	75	(672)	251	283	168	(702)	1,374	732	2,106		
OD-6	19	51	8	(78)	62	53	- 6	(121)	199	205	404		
OD-7	165	81	26	(272)	110	53	44	(207)	479	153	632		
OD8	554	163	32	(749)	229	109	82	(420)	1,169	535	1,704		
OD-9	214	45	83	(342)	183	87	106	(376)	718	126	844		
OD-21	116	151	22	(289)	246	230	66	(542)	831	408	1,239		
OD-22	454	246	38	(738)	178	98	53	(329)	1,067	394	1,461		

Note: Survey period 6:00 ~ 14:00 (8 hrs)

	STATION

(Vehicle/12 hrs)

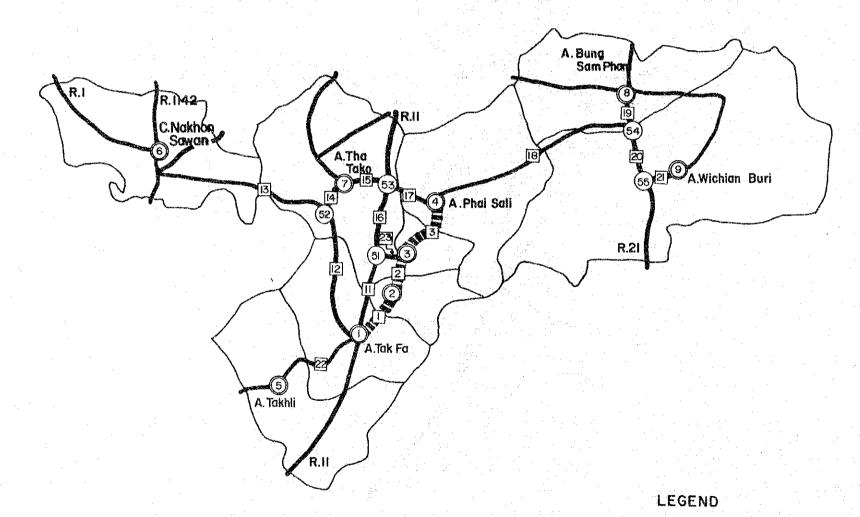
Station		assen	er Tra	ffic		Freid	ght Tra	affic	Sub		•
Code	P/C	L/B	н/в	(Total)	L/T	M/T	H/T	(Total)	Total	M/C	Total
M-11		58	-	(58)	67	38	17	(122)	180	153	333
M-12	60	120	9	(189)	316	85	103	(504)	698	778	1,471
M-13	+104	8	6	(14)	172	9	40	(221)	235	387	622
M-14	4	6	- - -	(10)	137	26	12	(175)	185	200	385
M-15	10	21	4	(35)	81	16	14	(111)	146	392	538
M-16	6	5		(11)	74	16	6	(96)	107	142	249
M-17	3	51	- i	(54)	51	7. 7		(58)	112	101	213

Note: Survey period $6:00 \sim 18:00$ (12 hrs)

ROUTE 3330 B. Sam Yaek Samrong Chai (J. Route 1) - A. Phai Sali (J. Route 3004) C. Nakhon Sawan

T	R	Д	F	F	١	C	ZONES
 _			-	-	-		

Traffic	Rela	ated Administrative Devision	ns
Zone Code	Changwat Name	Amphoe Name	Tambon Code
0	Nakhon Sawan	Tak Fa	all
2	-do-	Phai Sali	05
3	-do-	-do-	02
(4)	do	do	01,03,04,06
(5)	do	Täkhli	all
(6)	-do-	M.Nakhon Sawan	all
7	-do	Tha Tako	all
(8)	Phatchabun	Bung Sam Pham	all
(9)	do	Wichian Buri	all
(0)			THE REPORT OF THE PROPERTY OF



				ROAD	LINE	CH/	ARACT	TERIS	TICS	
		Link	Node	Pair	Project	Distance	Physical	Speed	Admini strative	Domesta
l		Code	Origin	Distinction	Case	(Km)	Grade	(Km/h)	Grage	Remarks
ſ		ורו	. 1	2	W	7.0	7	40	4	R.3330
				-	W	7.0	4	70	3	
	Propose:	d [2]	2	3	W	6.0	7	40	4	R.3330
į	Road	اعا		J	·W	6.0	4	70	3	
l		3	3	4	W	20.3	7	40	4	R.3330,PWD
-					₩	20.3	4	70.	3	
		4			W					
1					W				<u> </u>	
-										
1	/	Ш	1	51	W.W	13.5	1	80	1	RJI
1		[2]	1	52	W.W	27.9	7	40	4	R.II45
		[3]	6	52	W.W	41.6	4	70	3	R.3004
	• . •	[4]	7	52	.₩.₩	6.0	4	. 70	3	R.3004
		[5]	7	53	W.W	11.3	4	70	3	R.3004
		[6]	51	53	W.W	17.5	1	80	1 1	R.II
			4	53	₩.₩	9.5	4	70	3	R.3004
-		[8]	4.	54	W.W	47.0	8	30	4	R.3004,R.2184
- 1	Other Roads	19	8	54	W.W	4.0	1	80	1.1.	R,2I
	10005	50	54	55	W.W	15.0	1	80	1	R,2I
-		21	9.	55	W.W	7.2	1	80	3	R.2012
		22	1	5	Ŵ,W	28.2	1	80	<u> </u>	R.I
		23	3	51	W.W	4.0	4	70	3	R.H (package)
1		24			W.W]			ļ	
		25			W.W		_	<u> </u> -	1	
	`	26		 	W.W		ļ	ļ		
1		27			W.W		ļ	<u> </u>	ļ	<u> </u>
		28		ļ	W.W	<u> </u>	ļ	ļ	ļ	
		30	 	<u> </u>	W.W				ļ	
	47	31	 		W.W	<u> </u>	ļi		ļ	
		32	<u> </u>	<u> </u>	W.W	ļ: <u>:</u> :;	<u> </u>	 	<u> -</u>	
-	100	33	 	ļ : -	W.W	<u> </u>	 	 	 	
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į		1 22	<u> </u>	1	W.W	<u> </u>	L	L <u></u> -	1	<u> </u>

0 Traffic Zone

Dummy Node

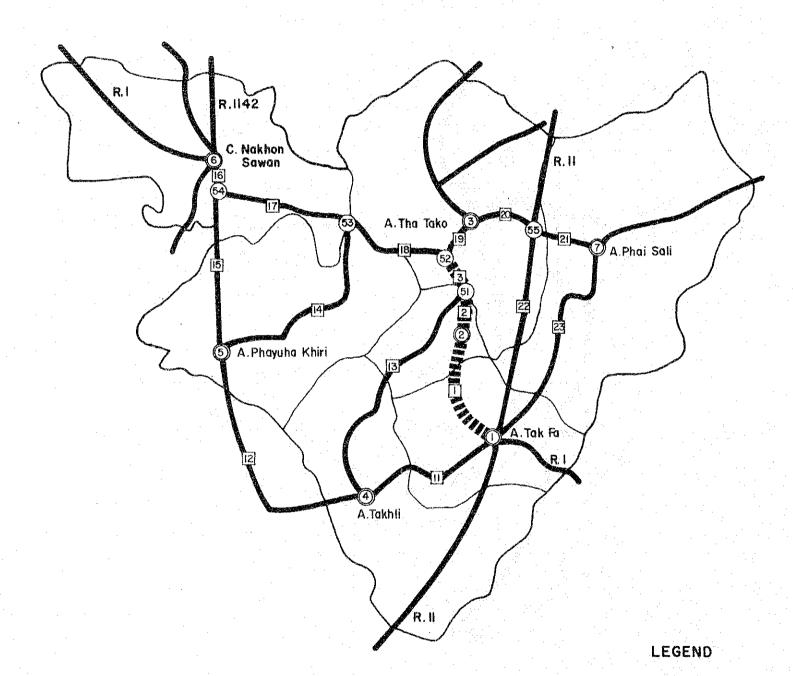
R Road Link Code

Proposed Road Link Other Road

(2)

ROUTE 1145 B. Hua Thanon Nua (J. Route 3004) — B. Tak Fa (J. Route 1)

C. Nakhon Sawan



TRAFFIC ZONES

Traffic	Rela	led Administrative Devisi	ons
Zone Code	Changwat Name	Amphos Name	Tambon Code
	Nakhon Sawan	Tak Fa	except 06
	do	- do -	06
<u> </u>	do	Tha Tako	all'.
4	do	Takhli	all
(5)	- do -	Phayuha Khiri	all
6	- do -	M. Nakhon Sawan	all
O	do	Phai Salī	all
8			
9			

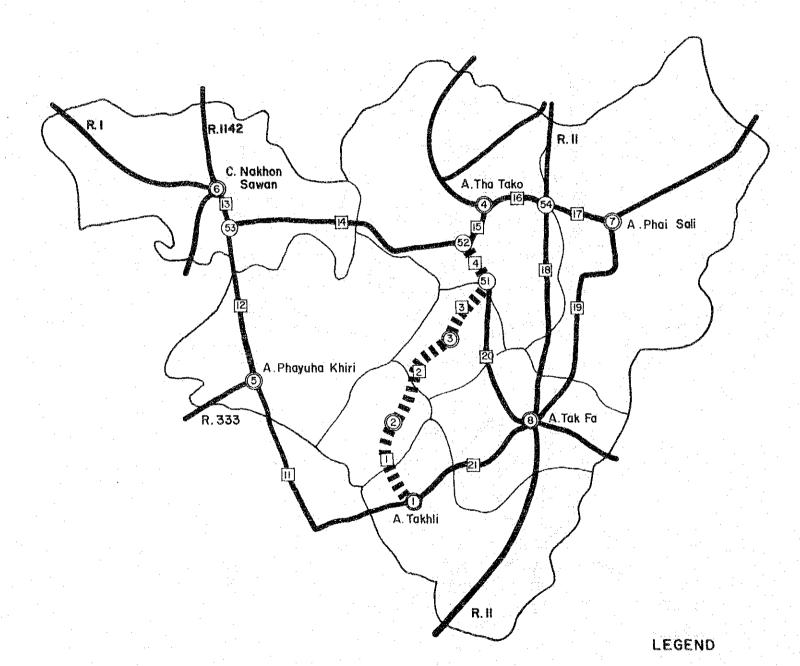
1							ERIS		
	Link	Node				Physical	1 '	Admini strotive	Remarks
	Code	Origin	Distination	Case	(Km)	Grade	(Km/h)	Grade	
		J	2	W	12.2	7	40	4	R. 1145
.	ш		۷	₩	12.2	4	70	3	ana ing pagalang
.	2	2	51	W	8.0	7	40	4	R. 1145
ropos		r.	31	W	. 8.0	4	.70	3	
Road	3	51	52	W	7.7	7	40	4	R. 1145
	121	J.	32	. W	7.7	4	70	3	
				₩					
	4			₩					
					. 1 1 12				
	ii)	1	4	W.W.	28.2	1	80	ı	R.I
	12	4	5	₩.W	39.0	· 1	80	ı	R. I., R. 32
	13	4	51	W.W	38.8	7	40	4	R. 3329
	14	5	53	W.W	32.0	7	40	4	R. 3327
	15	5	54	W.W	21.3	1	80	ı	R. I
	16	6	54	W.W	2.5	1	80	. 1	R. I
Other	17	53	54	W.W	20.0	4	70	3	R. 3004
Roads	18	52:	53	W.W	21.6	. 4	70	. 3	R. 3004
7 5 7	19	3	52	W.W	6:0	4	70	3	R. 3004
	20	3	55	W.W	11.3	4	70	3	R. 3004
	21	: 7	55	W.W	9.5	4	70	3	R. 3004
]	23		55	W.W	31.0		80	i	R. II
	23	1. 1	7	W.W	33.3	7	40	4	R. 3330
	24			W.W	1				
	25			W.W					
	26		1.0	W.W					
٠.	27			W:W				1	
	28			W.W		1			
	29			W.W				1	
	30 31			W.W					
	31			W.W	1	T	ĺ	1	
	32			W.W	1		 		
	33	1		W.W	1	1			
	34			W.w	1			1	
100	35			W.W	1	1		1	

Dummy Node

R Road Link Code

Proposed Road Link
Other Road

ROUTE 3329 B. Sam Yaek (J. Route I) - B. Hua Thanon Nua (J. Route 3004) (3) ROUTE 1145 C. Nakhon Sawan



0	 Traffic	Zone
(j)	Dummy	Node

Road Link Code

Proposed Road Link Other Road

TRAFFIC ZONES

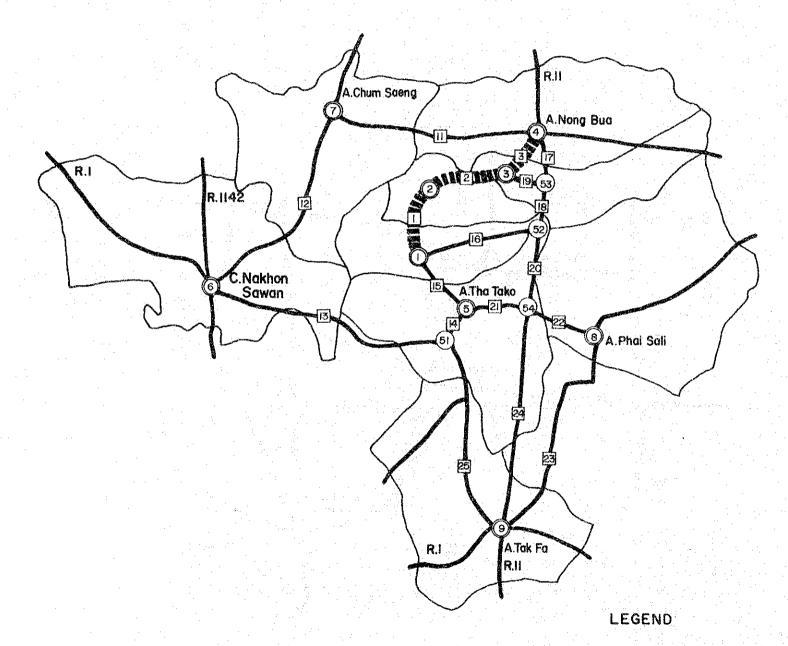
Traffic	Rela	ted Administrative Devisi	ons .
Zone Code	Changwat Name	Amphoe Name	Tambon Code
(1)	Nakhon Sawan	Takhli	except 05,06
(2)	do	-do-	05,06
(3)	do	Tak Fa	06
(4)	- do-	Tha Tako	all
(5)	- do -	Phayuha Khili	all
6	- do	M. Nakhon Sawan	all
(7)	- do-	Phal Sali	all
(8)	- do-	Tak Fa	except 06
(9)			

			ROAD	LINK	CHA	ARACT	ERIS"	rics	
	Link	Node	Pair	Project	Distance	Physical	Speed	Admini strative	Remarks
	Code	Origin	Distinution	Case	(Km)	Grade	(Km/h)	Grade	1/4110145
				W	10.3	7	40	4	R. 3329
			2	W	10.3	4	70	3	
Proposed				W	19.7	7	40	4	R. 3329
Road	2	. 2	3	₩	19.7	4	70 .	3	
				W.	8.8	. 7	40	4	R. 3329
	3	3	51	W	8,8	4	70	3	
				W	7.7	7	40	4	R. II45
	4	51	52	W	7.0	4	70	3	
		*							
	П		5	W.W	39.0	ı	80	1	R.I, R.32
	12	5	53	W.W	21.3	l	80	1	R.I
	13	6	53	W,W	2.5	1	80	<u> </u>	RI
	14	52	53	W.W	41.6	4	70	3	R. 3004
	15	. 4	52	W.W		4	70	3	R. 3004
	16	4	54	W.W		4	70	3	R. 3004
Other		7	54	W.W		4	70	3	R. 3004
Roads	18	8	54	W.W		1.	80	1	R. II
	19	7	8	W.W		7	40	4	R. 3330
	20	8	51	W.W	20.2	7	40	4	R. II45
	[2]	1	. 8	₩.W		1	80	<u> </u>	R. I
	22		1.	W.W					
	[23]			W.W				<u> </u>	
	24			W.W					
	25			W.W					
	26			W.W				<u> </u>	
	27			W.W		_		_	
	28								<u> </u>
	29			W.W	_ 1				<u> </u>
				W W				<u> </u>	
	[3]	1		W.V		1:		<u> </u>	
	32 33			W.V	<u> </u>				
				W V			1		
	34			W.V					
1	35			W.V	V				

ROUTE 1119

4

A. Nong Bua - B. Phanom Rok C. Nakhon Sawan



Traffic Zone

Dummy Node

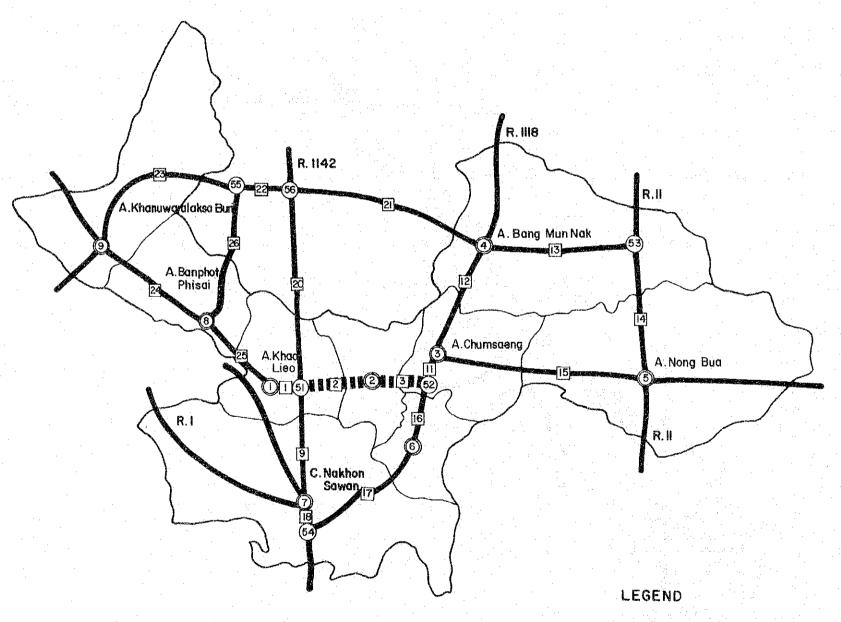
R Road Link Code

Proposed Road Link
Other Road

Traffic	Relo	ted Administrative Devisions				
Zone Code	Changwai Name	Amphoe Name	Tambon Code			
0	Nakhon Sawan	Tha Tako	02,09			
2	do	Tha Tako	04,08			
3	—do—	Nong Bua	.03			
(4)	do	Nong Bua	exceptO3			
⑤	do	Tha Tako	01,03,05,06,07,10			
6	—do—	M.Nakhon Sawan	all			
\bigcirc	do	Chum Scieng	oll			
(8)	-do	Phai Sali	01,03,06			
(9)	do	Tak Fa	all			
0						

	Link	Node	Poir	Project	Distance	Physical	Speed	Admini	Demostra
	Code	Origin	Distinction	Case	(Km)	Grade	(Km/h)	1	Remarks
			2	W	17.0	7	40	4	RIII9
1: "	ш	ľ		W	17.0	4	70	3	
Proposed	2	2	3	W	8.0	7	40	4	RIII9
Road	الا			W	8,0	4	70	3	
145	[3]	3	4	W	7.0	7	40	4	RIII9
	131	,		₩	7.0	4	70	3	
	4			W					
	ן יבו			W				1.	
		4	7	W.W	32.0	4	70	3	R.III9(OECF)
	[2]	6	7	Ŵ.W	38.3	4	70	3	RIII8
	[3]	6	51	₩W	441	4	70	3	R.3004,RI
	[4]	5	51	W.W	6.0	4	70	3	R.3004
	15	1	5	₩.W	7.6	4	70	3	R.III9
	16		52	Ŵ W	15.8	4	70	3	R.9124(ADB)
		4	53	WW	6.8	I	80	i I	R.II
Other	18	52	53.	W.W	7.8	ı	80	- 1	RII
Roods	[9]	3	53	w w	3.5	4	70	3	R.II (Package Pro
	20	52	54	W.W	13.0	1	80	1	R.II
	2	5	54	W W	11.3	4	70	3	R.3004
	23	8	54	W.W	9.5	4	70	3	R.3004
	23	8	9	W W	33.3	7.	40	4	R 3330
	24	9	54	₩w	31,0	1	80	ŀ	R.II
4.4	25	9	51	W.W	27.9	: 7	40	4	R.II45
	26			W.W					
	27			Ŵ W					:
	28			W.W					
	29			W.W					
	30			W.W					
	31			W W					
	32			www.					
	33			W.W				T	
	34			W W	A			1	ere i i iii kaa ii k
	35		1	W W				1	

5 RURAL ROAD A. Kao Lieo (Route 1142) — B. Koei Chai Nua (J. Route 1118) C. Nakhon Sawan



0

1

R

Traffic Zone

Dummy Node

Other Road

Road Link Code
Proposed Road Link

Traffic	Rei	Related Administrative Devisions							
Zone Code	Changwat Name	Amphoe Name	Tambon Cods						
0	Nakhon Sawan	Kao Lieo	all						
2	- do -	Chumsaeng	05,06,09						
(3)	- do -	Chumsaeng	except 02,05,06,08,09						
(4)	Phichit	Bang Mun Nak	all						
(5)	Nakhon Sawan	Nong Bua	all						
6	→ do	Chumsaeng	02,08						
0	do	M. Naktion Sawan	all						
(8)	- do -	Banphot Phisai	02,07,08						
(9)	Kamphaeng Phet	Khanuwaralaksa Buri	01,02,03,04,05						
(C)									
(1)									

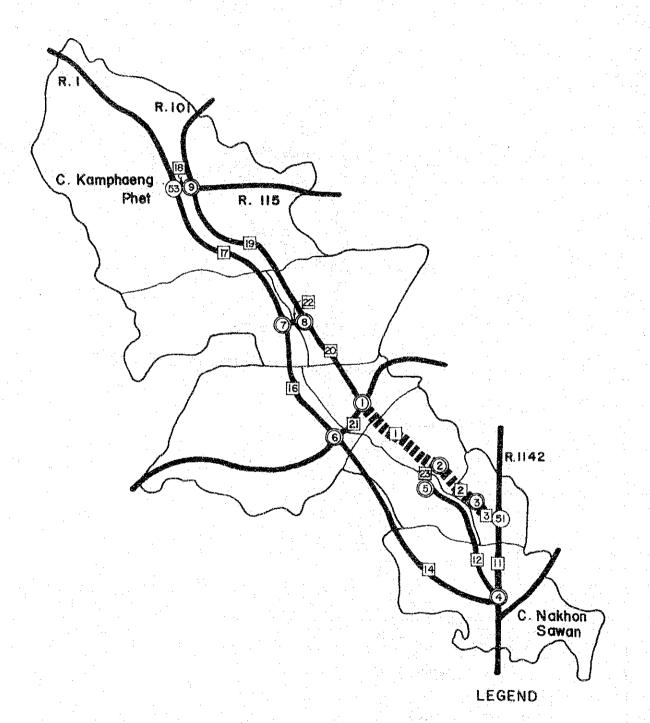
•	50 m		ROAD	LINK	C CH	ARACT	ERIS"	TICS	
	Link	Node	Pair	Project	Distance	Physical	Speed	Admini strative	
	Code	Origin	Distination	Case	(Km)	Grade	(Km/h)	Grade	Remarks
,	[2]		51	W	5.O	7	40	4	Rural
		1	51	W	5,0	4	70	3	
	[2]	^	51	₩.	10,5	H	5	4	Rural
	اجا	2	51	₩	10.5	4	70	3	
Proposed Road	[2]		E0	W	7.0	- 11	5	4	Rural
	3	2	52	W	7.0	4	70	- 3	
	ran			W	11.		1.5		
	4	s f		W					
	- A								
	11	3	52	W.W	5.0	4	.70	3	R.1118 (DOH)
	12	3	4	W.W	19.0	7	40	4	R.III8
	[3]	4	53	W.W	28.0	4	.70	3	R 1069(ADB)
	14	5	53	W.W	20.0	1	80		R.II
	15	3	5	W.W	32.0	4	70	3	R. III9 (OECF)
	16	6	52	W.W	13.0	4	70	3	R.III8 (DOH)
Other	[7]	6	54	W.W	19.3	4	70	. 3	R.III8(DOH)
Roads		7	54	W.W	1.0	1	80	1	R.1 .
	[9]	7	51	W.W	17.0	4	70	3	R.1142(UC)
	20	51	56	W.W	28.0	4	70	3	R.1142(UC)
	2	4	56	Ŵ.W	31.0	4	70	3	R.1067, R.1073
,	22	55	56	W.W	8.5	7	40	4	Rural
	23	9	55	W.W	24.3	4	70	3	Rural(OECF)
	24	- 8	9	W.W	22.6	10	10	4	Rural
	25	1	8	W.W	15.0	7	40	4	Rural
	26	8	55	W.W	23.5	7	40	4	R.1073
	27			W.W		<u> </u>			and Printed Assessment of the second
	28			W.W	- :			1	
	29		<u> </u>	W.W]			<u> </u>	
	30			W.W		ļ <u>.</u>		<u> </u>	·
	31			W.W				<u> </u>	
	32		<u> </u>	W.W	<u> </u>		ļ <u></u>	<u> </u>	
	33	<u> </u>		.W.W		<u></u>		<u> </u>	
	34			W.W		1		1,	<u> </u>
	[35]			W.W					
									the second secon

RURAL ROAD

6

A. Khanuworalaksd Buri (J. Route 1074) - B. Map Yang (J. Route 1142)

C. Kamphaeng Phet C. Nakhon Sawan

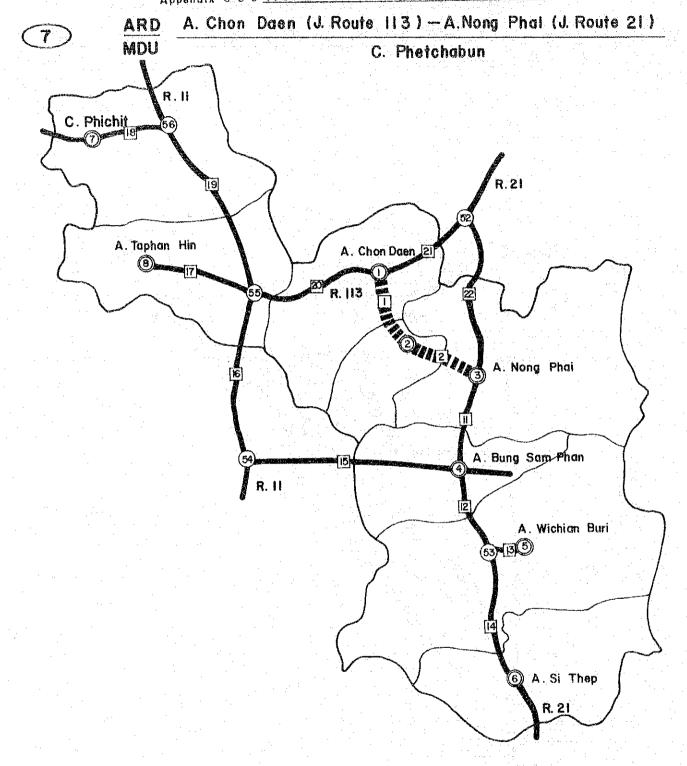


	Traffic	Zone
	Dummy	Node
R	Road L	ink Code

Proposed Road Link Other Road

Traffic	Rei	uted Administrative Devisi	ons
Zons Cods	Changwat Name	Amphoe Name	Tambon Code
	Kamphaeng Phet	Khanuworalaksa Buri	03,04,05
(2)	Nakhon Sawan	Banphot Phisai	02,07,08
3	- do-	Kao Lieo	01,02,03,05
(4)	- do-	M. Nakhon Sawan	all
(5)	- do	Banphot Phisai (01,0	3,04,05,06),Kao Lieo (04)
6	Kamphaeng Phet	Khanuworalaksa Buri	06,07,08,09,10
7	-do-	Khlong Khlung	01,08,09
(8)	~do-	- do -	02,03,04,05,06,07
9	-do-	M. Kamphaeng Phet	ali
(O)			

			ROAD	LINE	(CH	ARACT	ERIS		
	Link	Node	Pair	Project	Distance	Physical	Speed	Admini strative	
	Code	Origin	Distination	Case	(Km)	Grade	(Km/h)	Grade	Remarks
	<u></u>			W	22.6	10	10	4	Rural
			2	W	22.6	4	70	3	
	[2]	2	3	W	15.0	7	40	4	Rural
	اجا		٥	W	15.0	4	70	3	
Proposed	[3]	3	51	W	5.0	7	40	4	Rural
Road	<u> </u>	3	J1	W	5.0	4	70	3	
	4			W	ļ ·				
				W					
			·						
	Ш	4	51	W W	17.0	4	70	3	R. 1142(UC)
	[2]	4	5	W.W	34.1	4	70	4	R. 1182 (OECF)
	[3]								
	14	4	6	₩.W	47.9	1	80		R.I
	[5]		 	L		ļ		ļ	
	[6]	6	7	W.W	27.5	1	80	. 1.	R. I
Other	17	7	53	W.W	39.6	1	80	1 .	R.I
Roads	18	9	53	W W	5.0	4	70	3	Brg.
	19	8	9	W.W	40.0	4	70	3	R.1084 (ADB)
	20	<u> </u>	8	W.W	30.0	4	70	3	R. 1084 (ADB)
	21	l	6	W.W	9.3	4	70	3	R.1074
	2017	7	8	₩ w	0.5	<u> </u>			Ferry
	23	2	5	W.W	0.5	<u> </u>		-	Ferry
	24	ļ	 	W W		ļ	ļ	ļ	
	25		ļ	W W			<u> </u>		
			 		 			ļ	·
	20			W.W	ļ	ļ		 	
	28		<u> </u>	W W	-		ļ		
	50		<u> </u>	W W			 	ļ	
. [3 3	·	-	W W	<u> </u>	 	<u> </u>	·}	
	32		 	W W	 	 	ļ	 	<u> </u>
	33	<u> </u>	 	W W	ļ	 	ļ		
:	34	 		W W	1	·	 	ļi	
	35	} '	 	W.W	<u> </u>	ļ	 		<u>~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~</u>
····		L	<u> </u>	T 44 . 44	<u></u>	<u> </u>	L	J	



LEGEND

- Traffic Zone
- 1 Dummy Node
- P Road Link Code

Proposed Road Link Other Road

Traffic	Rel	ated Administrative Devisions						
Zone Code	Changwat Name	Amphoe Name	Tambon Code					
(1)	Phetchabun	Chon Daen	01,02(80%),05(70%)					
0	- do -	Chon Daen	02(20%), 05(30%)					
(3)	- do	Nong Phai	all					
(4)	do	Bung Sam Phan	all					
(5)	- do-	Wichian Buri	all					
6	- do-	Si Thep	all					
0	Phichit	M. Phichit	all					
(3)	- do-	Taphan Hin	all					
9								
(i)								

			ROAD	LINE	CH/	ARACT	TERIS		
	Link	Node	Pair	Project	Distance	Physical	Speed	Admini strative	Remarks
	Code	Origin	Distination	Case	(Km)	Grade	(Km/h)	Grade	Mailinu
				W	25.0	8	30	4	ARD
		1	2	w	25.0	5	55	3	
roposed				W	16 7	10	10	4	MDU
Road .	2	2	3	W	16.7	5	55	3	
				W					
	3			W	11:1				
	[4]			W					
	4	•		W			1. 1. 1		
	11.11								
		3	4	₩w	14.7	1	80	1	R 2I
	12	4	53	W.W	13.9	1	80	1	R. 21
	13	5	53	W.W	7.2	4	70	- 3	R. 2012
	14	6	53	W W	23.2	i	80	1.1.1.1	R. 21
	[5]	4	54	W.W	45, 3	: 1	60	3	R. 2184
	16	54	55	Ŵ.W	32.0	1	80		R. II
Other	17	8	55	W.W	21.5	4	70	2	R. 113
Roads		7	56	W.W	16.5		80	2	RIII
	19	55	56	W.W	4	1	80	1	R.II
	50		55	W.W		5	55	2	R. 113
r d	21	ı	52	W.W		6	40	2	R. 113
	22	3	52	₩ w			80	1	R. 21
	23			W.W		ļ <u>.</u>	ļ	<u>.</u>	
	24		ļ	W.W	 	<u> </u>	<u> </u>		
	25	1		W.W			-	-	
	26		1	W.W			ļ	-	
· ·	27		12.14	W.W	·	1		-	·
	28		-	W.W		 	 	+	
	29 30	1	2 1 1	W.W	4	 			
· .	31	+	-	W.W		 		1-	
	32		+	W.W		-	+		
	33	4		W.W		-		+	
	34			W.W		1			
	35	+	+	W.V		+ -	·		
	133	1		1 44 . 4/		<u> </u>	. 	<u></u>	

8

RURAL ROAD

B. Thung Ma Ha Chai (J. Route 115) - B. Nong Takhian

C. Kamphaeng Phet

R.1142 C.Kamphaeng Phet 51 8 24 A.Sai Ngam/ C.Nakhon Sawan LEGEND

Traffic Zone

Dummy Node

Road Link Code

Proposed Road Link
Other Road

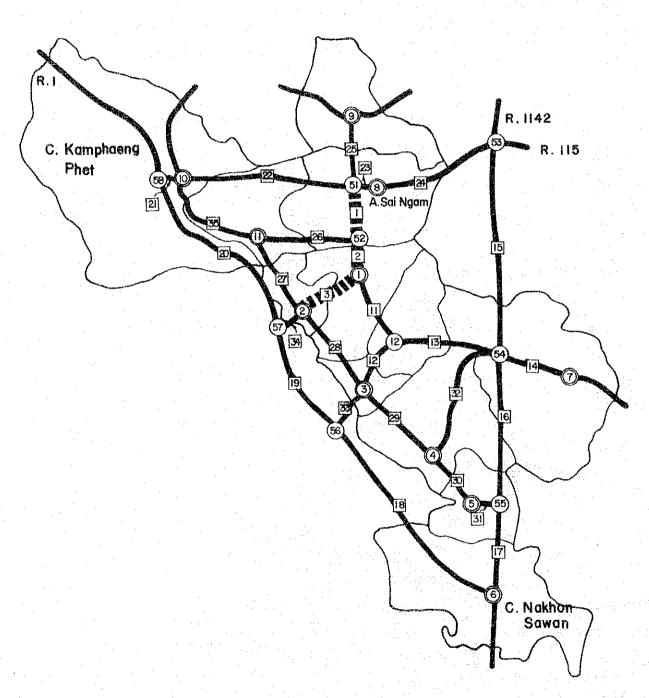
Traffic	Re	lated Administrative Devisi	ons
Zone Code	Changwat Name	Amphoe Name	Tambon Code
	Kamphaeng Phet	Khlong Khlung	03,07
2	- do -	Khanu Woralaksaburi	01,02
3	do	do	03,04
(4)	Nakhon Sawan	Banphat Phisal	02,07,08,09,10
(5)	- do-	Kao Lieo	all
6	do	M.Nakhon Sawan	all
7	Phichit	Pho Thale	all
(8)	Kamphaeng Phet	Sai Ngam	ail
(9)	— do—	Lan Krabu	di
(i)	do	M.Kamphaeng Phet	except 11,12,13
	- do-	, -do-	11,12,13
(2)	- do-	Khlong Khlung	02,04,06
(3)			
<u>(4)</u>			

Link Node Pair Project Distance Physical Grade Code Crigin Distanction Case Ckm Grade Ckm/h Grade Remarks	-			ROAD	LIN	CHA	ARACT	ERIS	TICS	
Code Origin Distinction Case (Km) Grade (Km/h) Grade Rural Rural		Link	Node	Pair	Project	Distance	Physical	Speed	Admini	
		Code	Origin	Distinction	Case	(Km)	Grade	(Km/h)		Remarks
Proposed		ш	SI:	52	W	I5.O	7	40	4	Rural
Seed		L	- 51	UZ	W	15.0	4	70	3	
		(S)		E.	W	6.2	7	40	4	Rural
	Roud		,	32	W	6.2	4	70	3	
		[R]		2	W	28.3	. 10	10	4	Rural
	1	191		. ~	W	28.3	4	70	3	
		(A)			W					
					W					
13			· i	12	W.W	11.3	7	40	4	Rural
		12	2	3		9.3	4	70	3	OECF
15 53 54 W.W 425 4 70 3 R 142(U.C.) 16			2	54	₩.W	23.5	4	70	3	OECF
Other Roads		[4]	7	54	W.W	10.0	7	40	4	R.1073
Other Roads IF 6		15	53	54	L	42.5	.4	70	3	R1142(U.C.)
Roads			54	55		28.0	4	70	3	
19 56 57 \overline{W}.W 275 1 80 1 R.1 20 57 58 \overline{W}.W 39.6 1 80 1 R.1 21 10 58 \overline{W}.W 34.0 4 70 2 R.15 22 10 51 \overline{W}.W 34.0 4 70 2 R.15 23 8 51 \overline{W}.W 5.0 4 70 2 R.15 24 8 53 \overline{W}.W 25.0 4 70 2 R.15 25 9 51 \overline{W}.W 13.1 7 40 4 PWD 26 11 52 \overline{W}.W 22.0 7 40 4 Rural 27 11 12 \overline{W}.W 15.0 4 70 3 R.1084(ADB) 28 3 12 \overline{W}.W 30.0 4 70 3 R.1084(ADB) 29 3 4 \overline{W}.W 22.6 10 10 4 Rural 30 4 5 \overline{W}.W 15.0 7 40 4 Rural 30 3 56 \overline{W}.W 32.0 7 40 4 Rural 32 4 54 \overline{W}.W 32.0 7 40 4 Rural 33 3 56 \overline{W}.W 9.3 4 70 3 Brg. 34 12 57 \overline{W}.W 0.5 - 1 3 Ferry	5.000	[7]	6	55	W.W	17.0	4	70	3	R.II42(U.C.)
20 57 58 W.W 396 1 80 1 R.1 21 10 58 W.W 5.0 4 70 3 Brg 22 10 51 W.W 340 4 70 2 R.115 23 8 51 W.W 5.0 4 70 2 R.115 24 8 53 W.W 25.0 4 70 2 R.115 25 9 51 W.W 13.1 7 40 4 PWD 26 11 52 W.W 22.0 7 40 4 Rural 27 11 12 W.W 15.0 4 70 3 R.1084(ADB) 28 3 12 W.W 30.0 4 70 3 R.1084(ADB) 29 3 4 W.W 22.6 10 10 4 Rural 30 4 5 W.W 5.0 7 40 4 Rural 30 3 56 W.W 32.0 7 40 4 Rural 32 4 54 W.W 32.0 7 40 4 Rural 33 3 56 W.W 9.3 4 70 3 Brg 34 12 57 W.W 0.5 -	Roads	[8]	.6	56		47.9	ı	.80	1	R.I
21 10 58 W.W 5.0 4 70 3 Brg 22 10 51 W.W 340 4 70 2 R.II5 23 8 51 W.W 50 4 70 2 R.II5 24 8 53 W.W 25.0 4 70 2 R.II5 25 9 51 W.W 13.1 7 40 4 PWD 26 11 52 W.W 22.0 7 40 4 Rural 27 11 12 W.W 15.0 4 70 3 R.IO84(AD8) 28 3 12 W.W 30.0 4 70 3 R.IO84(AD8) 29 3 4 W.W 22.6 10 10 4 Rural 30 4 5 W.W 15.0 7 40 4 Rural 30 3 56 W.W 5.0 7 40 4 Rural 32 4 54 W.W 32.0 7 40 4 Rural 33 3 56 W.W 9.3 4 70 3 Brg. 34 12 57 W.W 0.5 - 1 3 Ferry		1	56	57	W.W	27.5	- 1.	80	1	R.I
22 10 51 \overline{W}.W 340 4 70 2 R. 5 23 8 51 \overline{W}.W 50 4 70 2 R. 5 24 8 53 \overline{W}.W 250 4 70 2 R. 5 25 9 51 \overline{W}.W 13.1 7 40 4 PWD 26 11 52 \overline{W}.W 22.0 7 40 4 Rural 27 11 12 \overline{W}.W 15.0 4 70 3 R. 084(ADB) 28 3 12 \overline{W}.W 30.0 4 70 3 R. 084(ADB) 29 3 4 \overline{W}.W 22.6 10 10 4 Rural 30 4 5 \overline{W}.W 15.0 7 40 4 Rural 31 5 55 \overline{W}.W 5.0 7 40 4 Rural 32 4 54 \overline{W}.W 32.0 7 40 4 Rural 33 3 56 \overline{W}.W 9.3 4 70 3 Brg. 34 12 57 \overline{W}.W 0.5 - 1 3 Ferry		50	57	58	W.W	39.6	1	80	ı	R.I
23 8 51 \(\vec{W} \) \(\vec{W} \) 50 4 70 2 R.115 24 8 53 \(\vec{W} \) \(\vec{W} \) 25.0 4 70 2 R.115 25 9 51 \(\vec{W} \) \(\vec{W} \) 13.1 7 40 4 PWD 26 11 52 \(\vec{W} \) \(\vec{W} \) 22.0 7 40 4 Rural 27 11 12 \(\vec{W} \) \(\vec{W} \) 15.0 4 70 3 R.1084(ADB) 28 3 12 \(\vec{W} \) \(\vec{W} \) 30.0 4 70 3 R.1084(ADB) 29 3 4 \(\vec{W} \) \(\vec{W} \) 22.6 10 10 4 Rural 30 4 5 \(\vec{W} \) \(\vec{W} \) 15.0 7 40 4 Rural 31 5 55 \(\vec{W} \) \(\vec{W} \) 5.0 7 40 4 Rural 32 4 54 \(\vec{W} \) \(\vec{W} \) 32.0 7 40 4 Rlo73 33 3 56 \(\vec{W} \) \(\vec{W} \) 9.3 4 70 3 Brg 34 12 57 \(\vec{W} \) \(\vec{W} \) 0.5 - 1 3 Ferry		<u> </u>	10	58	W.W	5.0	4	70	3	Brg
24 8 53 W.W 25.0 4 70 2 R.H5 25 9 51 W.W 13.1 7 40 4 PWD 26 11 52 W.W 22.0 7 40 4 Rural 27 11 12 W.W 15.0 4 70 3 R.IO84(ADB) 28 3 12 W.W 30.0 4 70 3 R.IO84(ADB) 29 3 4 W.W 22.6 10 10 4 Rural 30 4 5 W.W 15.0 7 40 4 Rural 31 5 55 W.W 5.0 7 40 4 Rural 32 4 54 W.W 32.0 7 40 4 Rural 33 3 56 W.W 9.3 4 70 3 Brg 34 12 57 W.W 0.5 -				51		34.0	4	70	2	RJI5
28 9 51 W.W 13.1 7 40 4 PWD			8	51	W.W	5.0	4	70	2	R.115
26		المستوفي ا		53		25.0	4	70	2	R.115
27				 		13.1	7.	40	4	PWD
28 3 12				52		22.0	7	40	4	Rural
29 3 4 \overline{\pi}.W 22.6 10 10 4 Rural				12		15.0	4	70	3	R.1084(ADB)
30 4 5 \overline{W}\to W 15.0 7 40 4 Rural 51 5 55 \overline{W}\to W 5.0 7 40 4 Rural 32 4 54 \overline{W}\to W 32.0 7 40 4 Rio73 33 3 56 \overline{W}\to W 9.3 4 70 3 Brg. 34 12 57 \overline{W}\to W 0.5 - 1 3 Ferry			3	12	W.W	30.0	4	70	3	R.1084(ADB)
S						22.6	10	.10	4	Rural
32 4 54 \overline{\text{W}} \times 32.0 7 40 4 R.1073 33 3 56 \overline{\text{W}} \times 9.3 4 70 3 Brg. 34 12 57 \overline{\text{W}} \times 0.5 - 1 3 Ferry								40	4	Rural
33 3 56 \overline{\pi} \cdot \pi \bar{\pi} \cdot \pi						····	7	40	4	Rural
34 12 57 W. w 0.5 - 1 3 Ferry		r ====		54		32.0	. 7	40	4	R.I073
				+ • •			4	70		Brg.
		34						i		Ferry
		<u>[35]</u>	. 10		W.W	25,0	4	70	4	R.1084(ADB)

9

RURAL ROAD B. Thung Ma Ha Chai (J. Route 115) — B. Tha Makhua (J. Route 1084)

C. Kamphaeng Phet



LEGEND

-	100	1.5	计对差数 医内膜
()	+ 1	Traffic	Zone
160	100		

Dummy Node

R Road Link Cade
Proposed Road Link

Other Road

Traffic	Relat	ted Administrative Devisions				
Zone Code	Changwat Name	Amphoe Name	Tambon Code			
	Kamphaeng Phet	Khlong Khlung	03,07			
2	do	- do	02,04,06			
(3)	-do	Khanuworalaksa Buri	03,04			
4	Nakhon Sawan	Banphot Phisai	02, 07, 08, 09,10			
(5)	- do	Kao Lieo	all			
6	- do -	M Nakhon Sawan	all			
7	Phichit	Pho Thale	all			
(8)	Kamphaeng Phet	Sai Ngam	all			
9	-do-	Lan Krabu	all			
(0)	-do-	M. Kamphaeng Phet	except II, 12,13			
0	-do-	do	11,12,13			
(2)	-do-	Khanuworalaksa Buri	01, 02			
(3)						
(14)						

						. –			
	·. 	<u> </u>		····			ERIS		
	Link	Node	Pair	Project	Distance	Physical	Speed	Admini strative	Remarks
	Code	Origin	Distination	Case	(Km)	Grade	(Km/h)	Grade	
	rn			W	15.0	7	40	4	Rural
77		51	52	W	15.0	4	70	. 3	
Proposed	Lin.			W	6.2	7	40	; 4	Rural
Road	. 2	.	52	W	6.2	4	70	3	
	ran .	: 1		W	11.3	7	40	4	Rural
	3	. 1	2	W	11.3	4	70	3	
	(A)			·W					
	4			W	11			l	
		ı	12	W.W	28.3	.10	10	4	
	12	3	12	W.W	9.3	4	70	3	OECF
	13	12	54	W W	23.5	4	70	3	ÖECF
	14	7	54	₩.₩	10.0	7	40	4	R. 1073
	15	53	54.	W.W	42.5	4	70	3	R.1142
	16	54	55	W.W	28.0	4	70	3	R.1142
Other	[7]	6	55	W.W	17.0	4	70	3	R. 1142
Roads	[8]	6	56	W.W	47.9	J	80	1	R.I
	19	56	57	W.W	27.5	1	80	1	RI
	20	57	58	W.W	39.6	1 : 1	80		RI
	2	10	58	W.W	5.0	4	70	3	Brg
	22	10	51	W.W	34.0	4	70	2	R. 115
	23	8	51	W.W	5.0	4	70	2	R 115
	24	8	53	₩.W	25.0	4	70	2	R.115
	25	9	51	W.W	13.1	7	40	.4	PWD
1 .	26	111	52	W.W	22.0	7	40	4	
	27	2	Н	₩.w	15.0	4	70	- 3	R 1084 (ADB)
*.	28	2	3	W.W	30.0	4 .	70	3	R. 1084(ADB)
1.	29	3	4	W.W	22.6	10	10	4	
	30	4	5	₩.W	15.0	7	40	4	
	31	5	55	W.W	5.0	7	40	4	<u> </u>
	32	4	54	W.W	32.0	7	40	4	R. 1073
	33	3	56	Ŵ.W	9.3	4	70	3	
-	34	2	57	W.W	0, 5		1		Ferry
	35	10	11	W.W	2,5.0	4	70	3	R. IO84 (ADB)

ROUTE 9045 PWD , ARD B. Tha Khoi (J. Route 1068) - A. Taphan Hin (J. Route 1118)

C. Phichit

R. 1142 A. Sam Ngam 53 17 50 C. Dhiabit	
E. Priletin	
Chik [2] (3) (56) 26) (3) (4) (55) (56) (25) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	
[IG] R.1118 [A.Pho Thaie B. 67 21	
A. Bang Mun Nak	R.II
LEGEND	

Traffic Zone

Dummy Node

Road Link Code

Proposed Road Link
Other Road

Traffic	Rela	ted Administrative Devisi	ons		
Zone Code	Changwat Name	Amphoe Name	Tambon Code		
0	Phichit	Taphan Hin	except 11, 12		
(2)	do	Pho Pratchapchan (C	01,02); Taphan Hin (11,12)		
(3)	-do-	Pho Pratchapchan	03,04		
(4)	-do-	- do	05,06		
(5)	-do-	Sam Ngam	all		
6	-do-	M. Phichit	all		
7	~do ~	Bang Mun Nak	all		
(8)	-do-	Pho Thate	all		
(9)					
(0)					

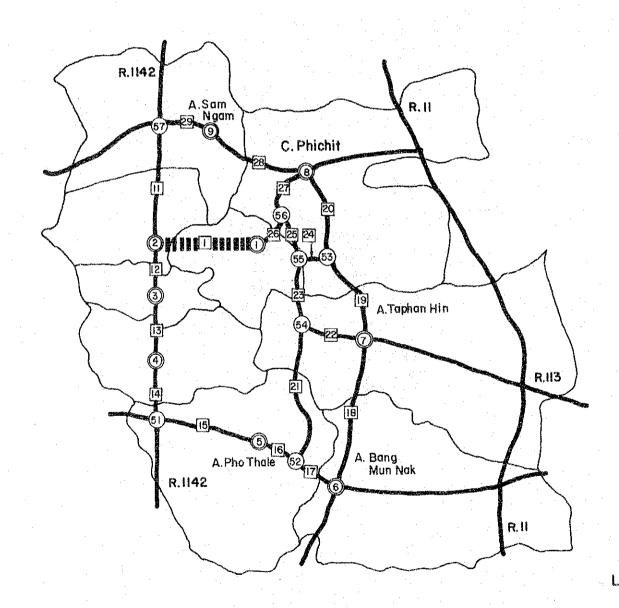
			ROAD					Hos Maniell	
	Link	Node	Pair	Project	Distance	Physical		Admini strative	Remarks
	Code	Origin	Distinution	Case	(Km)	Grade	(Km/h)	Grade	
	C-3			w	12.6	7	40	4	PWD
		1	55	W	12.6	4	70	3	
róposed Próposed			1	W	9.8	7	40	4	ARD
Road	2	2	55	W	9.8	4	70	. 3	
			1	₩	1.3	7	40	4	PWD
	3	2	56	W	1.3	4	70	3	
			1	W	5.0	7.	40	4	PWD
	4	51	56	W	5.0	4	70	3	
	III	6	51	W.W	10.7	4	70	3	R.1068
	12	3	51	W.W	5.0	4	70	3	R. 1068
	13	3	52	W.W	15.4	10	10	4	Rural
	14	52	53.	W.W	20.0	4	70	3	R. 1142
1 5	15	4	52	W.W	10.0	4	70	3	R. 1142
	16	4	54	W.W	4	4	70	3	R. 1142
Other		5	53	W.W	6.0	4	70	2	R. 115
Roads		5	6	W.W	16.6	4	70	2	R 115
.,	19	6	58	W.W	11.0	4	70	3	R. 1118
	20	1	7	W.W	19.7	4	70	3	R. 1118
	21	7	57	W.W	6.3	4	70	3	R. 1067
1.00	22	8	54	W.W	1 17.0	4	70	3	R. 1073
	23	55	57	W.W	17.0	7	40	4	PWD
	24	8	57	W.W	7.0	4	70	3	R. 1067
	25		58	W.W	1 16.1	4	. 70	. 3	R. 1118
	26	56	58	₩.V	y 14.0	, -	20	4	ARD
	27			W.V					
	28			W.V	7				
1	29			W.)	V				
	30		_	W.V	٧	1			
	3			W.V	N				
	32			W.	N				
	33			W.	N				
	34	-		W		1			
	35			$\overline{\mathbf{w}}$		1			

RURAL ROAD

(12)

B. Wang Chik (Route 1068) - B. Pa Doeng (J. Route 1142)

C. Phichit



TRAFFIC ZONES

Traffic	Related Administrative Devisions							
Zone Code	Changwat Name	Amphoe Name	Tambon Code					
0	Phichit	Pho Prothap Chang	01,02,03,04					
(2)	do	Sam Ngam	06					
(3)	do	Pho Prothap Chang	05,06					
(4)	do	Pho Thale	09,10					
(5)	do	-do	except 09, 10					
6	-do-	Bang Mun Nak	ail					
(7)	qo	Taphan Hin	all					
(8)	do	M. Phichit	all					
(9)	do	Sam Ngam	01, 02, 03, 04, 05					
(0)								
(1)								

			ROAD	LINK	CHA	ARACT	FERIS	TICS	
	Link	Node	Pair	Project	Distance	Physical	Speed	Admini strative	Remarks
	Code	Origin	Distination	Case	(Km)	Grade	(Km/h)	Grade	
				W	15.4	10	10	4	Rural
			5	W	15.4	4	70	3	Rurai
	127			W					
Propose	2			W					
Road	رقا ا			W					
	[3]		1	W					
	[7]			W					
	4		1	W					
		2 .	57	W.W	20.0	4	. 70	3	R.1142
Ì.	[12]	2	3:	W.W	0.01	4	70	3	R.1142
	[3]	3	4	W.W	15.4	4	70	3	R.1142
	[4]	4	51	W.W	15.4	4	70	3	R.1142
	[5]	5.	51	W.W	17.0	4	7.0	3	R.1073
	16	5	52	W.W	7. 0	4	70	3	R 1067
Other	1	6	52	W.W	6.3	4	70	3	R1067
Roads	[8]	6	7	W W	19.7	4	70	3	R.II18
	[19]	7.	53	W.W	16.1	4	70	3	R.1118
	20	8	20	W W	11.0	4	70	3	R 1118
	2	52	54	W.W		7	40	4	PWD
	22	7	54	W W		7	40	4	PWD
	23	54	55	W.W	11,1	7	40	4	ARD
	24	53	55	₩w	14.0	7,10	20	4	ARD,R. 9053
	25	55	56	W.W	5.0	7	40	4	PWD
	56	1	5.6	W.W		4	70	3	R.1068
	27 28	8	56	W W		4	70	3	R,1068
1 1	28	8	9	W.W		4	70	2	R.115
	29	9	57	W.W	_ 	4	70	2	R.115
1	30	1		W.W	—december of the			1	
1 4	31	<u> </u>		W.W					
	32			W.W		1			
	33	<u> </u>	<u> </u>	W.W				1	<u> </u>
	34	1		W W		1		1	
l	35	<u> </u>	<u></u>	₩ w	1	1	. J., .		

LEGEND

R

0 Traffic Zone

(Dummy Node

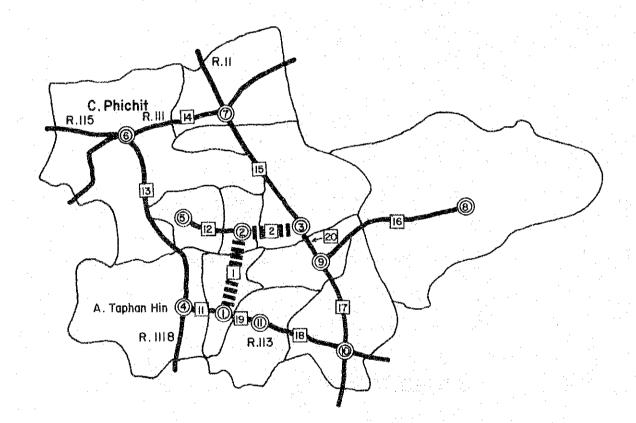
Road Link Code

Proposed Road Link

RURAL ROAD PWD

A. Wang Sai Phum (J. Route II) — B. Nong Phayom (J. Route II3)

C. Phichit



TRAFFIC ZONES

Traffic	Rel	ated Administrative Devi	sions
Zone Code	Changwat Name	Amphoe Name	Tambon Code
	Phichit	Taphan Hin	06
0	-do-	M.Phichit	14
(3)	-do-	Wang Sai Phun	ali
(4)	-do-	Taphan Hin	except 02,06,07,08,13,14
(5)	-do -	M. Phichit	[3
6	do	-do-	except 13,14,16,17
(7)	-do-	-do-	16,17
(8)	Phetchabun	Chon Daen	03,04
(9)	Phchit	Tophan Hin	14
	-do-	-do-	02,13
	-do-	-do-	07,08
(2)			
(3)			

			2.2	٠	•				i
1			ROAD	LINK	CH	ARACT	TERIS		
	Link	Node	Pair	Project	Distance	Physical	Speed	Admini strative	Remarks
ĺ	Code	Origin	Distination	Case	(Km)	Grade	(Km/h)		(Auna) va
	rin		_	W	18.9	_	7	4	Rural
		1	2	W	15.5	4	70	3	3.320-3.50
ropošec	[2]	2	3	W	7.1	7	40	4	PWD
lood	اكا		,	₩	8.5	4	70	3	
	3			W			<u> </u>		
	التا	:		W			ļ		
•	4			W			<u> </u>		
	<u> </u>		<u> </u>	W		L			
	: '		·	T ==			1	T . T	
	11		4	W.W	4.0	4	70	2	R.113
		2	5	W.W	8.0	7	40	4	PWD R.III8
	[3 [4	4	6	W.W	27.1 16.5	4	70 80	3	R.1118
	15	6 3	7	W.W	22.9	7 1	80	1	R.II
Other	16	8	9	W.W	25.2	7	40	4	R.1191
Roads		9	10	W.W	15.0		80	 	R.II
	18	10	11	W.W	12.5	4	70	2	R . 113
	19	<u> </u>	1 11	W.W	5,0	4	70	2	R.II3
	20	3	9	W.W	4.0	1 - 1	80		R.II
	21	17		W.W					
· .	22			W.W					
	23	1 1		W.W					
	24			W.W					
	25			W.W			<u> </u>	<u> </u>	
	26			W.W	L	<u></u>	ļ		
	27			₩.W	ļ <u>.</u>	<u> </u>	ļ		· · · · · · · · · · · · · · · · · · ·
	28			W.W.	<u> </u>	ļ.,	ļ		
	29		<u> </u>	W.W		_			·
	30	-		W.W			-		
	31	 	-	₩.w	 	 	+		 -
	32 33			₩.W			+		
	34			W.W		+		· -	
}	35	 	+	W.W	_1	ļ.	·	+	
L	1 53	L		1 **. **	_L	_1	.1	_ L	1 2,

LEGEND

Traffic Zone

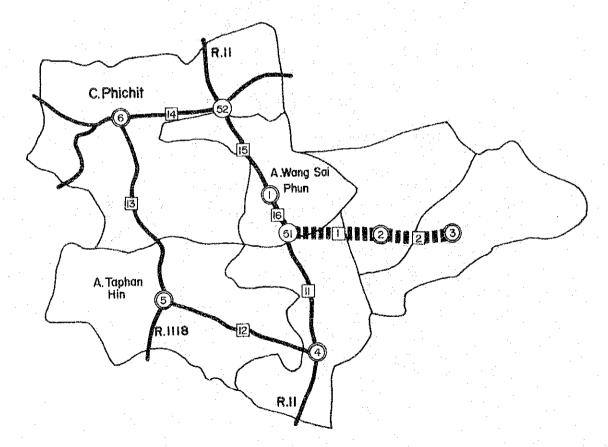
(j) Dummy Node

R Road Link Code

Proposed Road Link

ROUTE 1191
RURAL ROAD
ROUTE 1205

B. Nong Khanak (J. Route II) - B. Wang Pong
C. Phichit C. Phetchabun



TRAFFIC ZONES

Traffic	Relat	ed Administrative Devis	ions
Zone Code	Changwat Name	Amphoe Name	Tambon Code
	Phichit	Wang Sai Phun	all
(2)	Phetchabun	Chon Daen	04
(3)	do	-00-	03
4	Phichit	Taphan Hin	09,13,14
(5)	-do	-do-	except09,13,14
6	do	M. Phichit	all
7			
(B)			

ROAD LINK CHARACTERISTICS

				LINK			TERIS		
	Link	Node	Pair	Project	Distance	Physical		Admini strative	Remarks
	Code	Origin	Distination	Case	(Km)	Grade	(Km/h)	Grade	
				W	16.8	7	40	4	R.II91,Rural
		2	51	W	16.8	4	70	3	
Propose	d (5)		-	W	8.4	7	40	4	R.I205
Road	d [2]	2	3	W	. 7.6	4	70	3	
	3			W			ļ <u>.</u>	<u> </u>	
	[2]		<u></u>	W					
	[4]			₩	ļ			ļ	
				W	<u> </u>		<u></u>		
						4		T	5.11
		4	51	W.W	15.0	1	80	1	R.II
	12	-4	5	W.W	21.5	4	70	2	R.115 R.1118
	[3]	5	6	₩.₩	27.1	4	70	3	RJII
	14	6	52	W.W		ļ <u>.</u>	80	2	R.II
	[5]	1	52	W.W		 	80		R.II
Other			51	W.W			80	 '	K.H
Road				₩.w	1	 			
	[8]	<u> </u>		₩.₩		 		+	
	[9]	 		₩.w					
	20			W.W		 	- 		<u> </u>
	밀			W.W				+	
	22	<u> </u>		W.W		+		 	
. 19	23			W.W		-	 	 	
	24 25			W.v		+		 -	· · · · · · · · · · · · · · · · · · ·
	56			W.V					
- "	27	 	-	W.v			1	-	
	28			W v		+	_		
	100	 -		W.V				_	
	29 30	+	 	W.V	- in a contract of the contrac	1	1		
	5			W V			 		
	52			W V			1		
	33	<u> </u>		w.		<u> </u>	1		
	34		· · · · · · · · · · · · · · · · · · ·	W	. 4				I
	35	L. .	1	\overline{w}	w	1	1	1	
L									

LEGEND

Traffic Zone

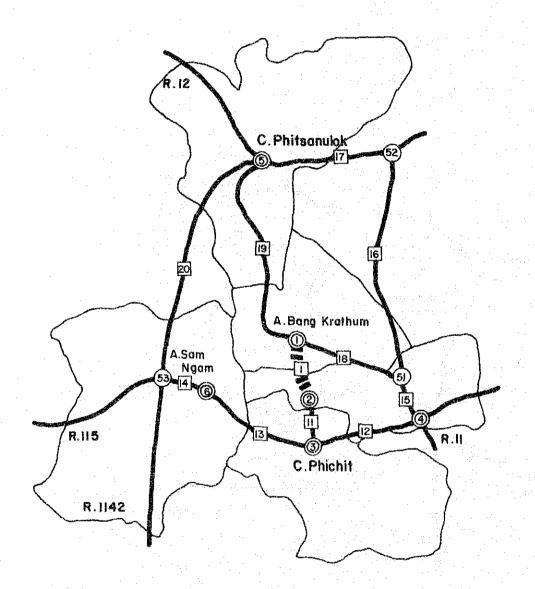
j) Dummy Node

R Road Link Code

Proposed Road Link

ROUTE 1221 B. Wang Tham (Route 1221) - B. Tha Makham (J. Route 1114)

C. Phichlt C. Phitsanulok



Traffic	Related Administrative Devisions								
Zone Code	Changwat Name	Amphoe Name	Tambon Code						
0	Phitsanulok	Bang Kmthum	oll						
2	Phichit	M. Phichit	02,03,04						
3	-do-	-do-	01,05-14						
4	- do -	-do-	15,16,17.						
(5)	Phitsanulok	M.Phitsanulok	oli						
(6)	Phichit	Sam Ngam	ali						
0									
(8)									

ROAD LINK CHARACTERISTICS

Principal and in columnia,	بمنسنم	-	MUAU	LIIA.	VE	ANAC	LK12		
	Link	Node	Pair	Project	Distance	Physical	Speed	Admini strative	
	Code	Origin	Distinution	Case	(Km)	Grade	(Km/h)	Grade	Remarks
Proposed	m	J	2	W	8.7		25	4	R.1221
Road	L			W	8.5	4	20	3	
	[2]			W					
				. W.					
	[3]	. #*		W	* *.				
	151			₩				-	
	[4]			W					
				W	:		. :		
	· · · · · · · · · · · · · · · · · · ·		Phrasis I am Indiana						
	11	2	3	₩.w	5.5	4	70	3	R.1114
	12	3	4	W.W	16.5	I	80	2	R.III
	[3]	3	6	₩.₩	16.6	4	70	2	R.II5
	[4]	6	53	₩.w	6.5	4	70	2	R.II5
	15 16	4.	51	W.W	7.5		80	i	R.II
Other	16	51	52	W.W	30.7	1	80	1	R.II
Roods	17	5	52	W.W	22.0		80		R. 12
	[8]	1	51	₩.W	14.0	4	- 70	3	R.1114
	9	1	5	W.W	40.7	4	70	3	R.1063
	20	5	53	W.W	29.4	_ 4	70	3	R.II42
	2			₩.₩					<u> </u>
	W.Z	· · · · · ·		W.W					
				W.W					
	24	<u> </u>		W.W					
	25	· · · · · · · · · · · · · · · · · · ·		W.W					
1 5	66	· · · · · · · · · · · · · · · · · · ·		.W.W					
	27	·		W.W	<u> </u>				
. ::::	28			W.W					
100	23			W.W					
	30			W.W					
	31			W W	٠				:
	32			W.W					
	33	4		W.W					
	34			W.W					
	35			₩w					

LEGEND

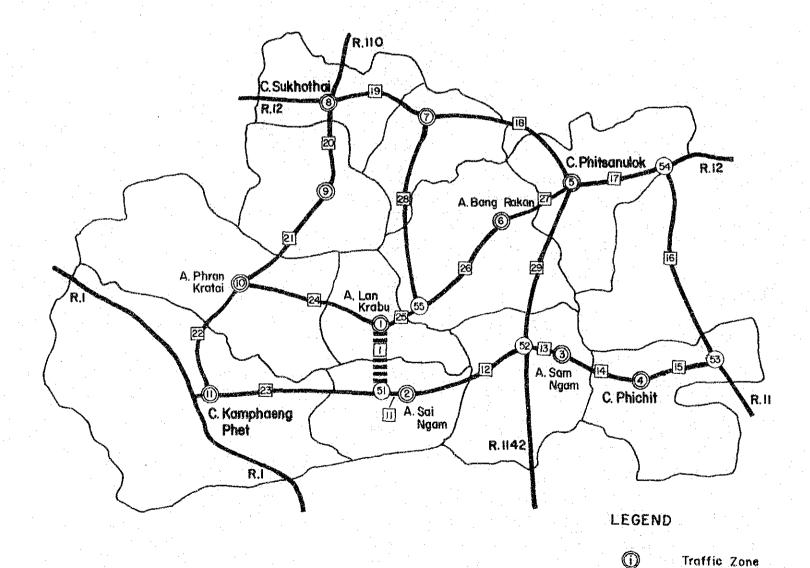
Traffic Zone

Dummy Node

Road Link Code

Proposed Road Link

16 PWD B. Wang Phikun (J. Route 115) - A. Lan Krabu (J. Route 1065)
C. Kamphaeng Phet



Dummy Node Road Link Code

Other Road

Proposed Road Link

TRAFFIC ZONES

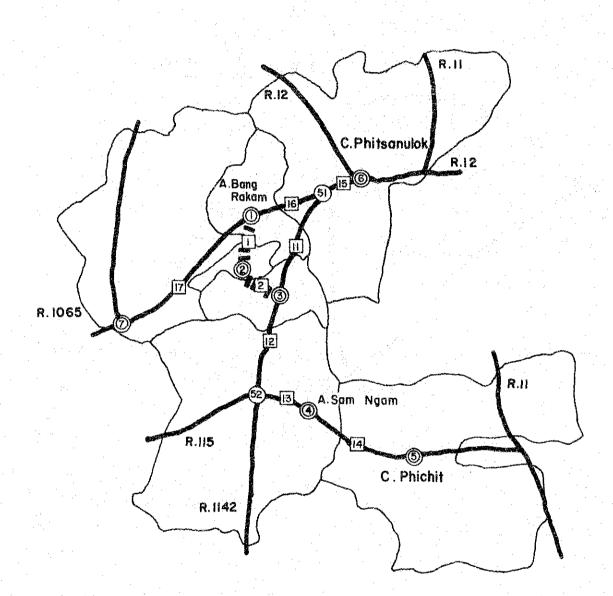
Traffic	Re	lated Administrative Devis	sions .
Zone Code	Changwaf Name	Amphoe Name	Tambon Code
	Kamphaeng Phet	Lan Krabu	all
2	-do	Sai Ngarn	all
3	Phichit	Sam Ngam	all
(4)	-do-	M. Phichit	all
(5)	Phitsanulok	M. Phitsanulok	all
6	do	Bang Rakam	all
7	Sukhothai	Kong Krailat	all
(3)	-do	M. Sukhothoi	all
9	-do-	Khiri Mat	all
0	Kamphaeng Phet	Phran Kratai	all
0	-do-	M. Kamphaeng Phet	all
(2)			
(3)			

ROAD LINK CHARACTERISTICS

		·	RUAU	LINE	V: 17	HAL			
	Link	Node				Physical	Speed	Admini strative	Oomelia
	Code	Origin	Distination	Case	(Km)	Grade	(Km/h)		Remarks
		1	51	W	13.1	7	40	4	PWD
	النا	1	31	W	13.1	4	70	3	
roposed	2			Ŵ			-		
Road :				₩					
	3			W					
	[2]	4		W					
· J	4			W					
	ובו			₩					
							Carrier was con.		
100		2	51	w.w	5.0	4	70	2	R.115
	[2]	2	52	W.W	25.0	4	70	2	R.115
	[3]	3	52	W.W	6.5	4	70	2	R.115
	14	3	4	W W	16.6	4	70	2	R.115
	15	4	53	W.W	16.5	1	80	2	R.111
	[6]	53	54	W.W	38.2	ı	80	1	R.II
Other	[7]	5	54	W.W	22.0	1	80	l	R. 12
Roads	<u> </u>	5	7	₩W	35,7	ı	80	ì	R, 12
	[9]	7	8	W.W	21.1	1	80		R.12
	50	. 8	9	W.W	20.1	4	70	2	R. 101
	[2]	9	10	W.W	32.5	4	70	2	R. 101
	22	10	11	W.W	27.6	4	70	2	R, 101
	四	11	51	W.W	34.0	4	70	2	R. 115
I	24	1	10	W.W	26.0	4	70	3	R. 1065 (ADB.)
]	25	1	55	W.W	7.0	4	70	3	R. 1065(ADB)
	26	6	55	W.W	30.6	4	70	3	R. 1065 (ADB)
	27	5	6	W.W	18.1	4	70	3	R.1065
- [28	7	55	W.W.	37.5	4	70	3	R.9117 (ADB)
	29	5	52	₩.w	29.4	4	70	3	R.1142
	30 31	·	 	W.W					
				Ŵ.W					
-	32			₩.W					
	33			₩.₩				}	
· [34			Ŵ,W					
	35		J [w w]	

(17)

ROUTE 9034 A. Bang Rakam (J. Route 1065) - B. Nong Bua (J. Route 1142) C. Phitsanulok ARD



LEGEND

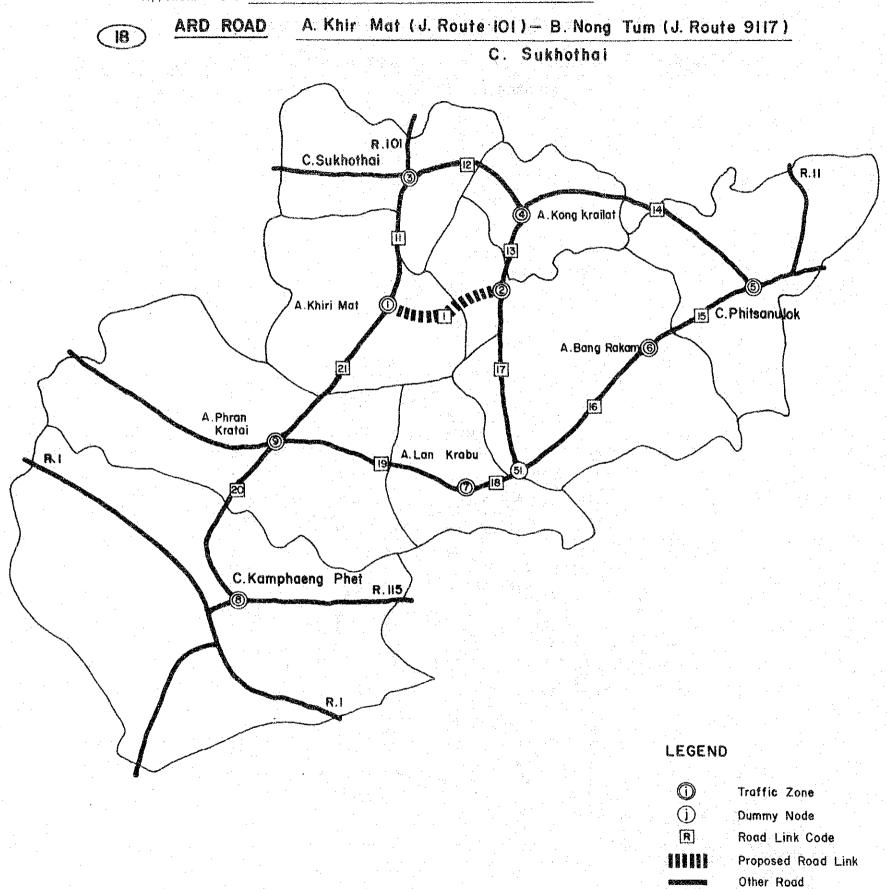
0	Traffic	Zone
	Dummy	Node

Road Link Code Proposed Road Link

Other Road

Troffic	Related Administrative Devisions								
Zone Code	Changwat Name	Amphoe Name	Tambon Code						
0	Phitsanutok	Bang Rakam	Ol						
(2)	-do-	~do~	02						
3	- do -	do	03,04						
(4)	Phichit	Sam Ngam	all						
(5)	- do -	M. Phichit	all						
6	Phitsanulok	M.Phitsanulok	ali						
	-do-	Bang Rakam	05,06,07						
(B)									
(9)									

Company of the			ROAD	LINE	CHA	ARACT	TERIS"		
	Link	Node			Distance	Physical	Spead	Admini strative	Remarks
	Code	Origin	Distinution	Case	(Km)	Grade	(Km/h)	Grade	. Remarks
		1	2	W	6.5	7	40	4	R.9034
				₩	6.5	4	70	3	
Proposed Rood	2	2	3	W	8.4	7	40	.4	ARD
1000				W	8.4	4	70	3	
	3			W					
				₩					· · · · · · · · · · · · · · · · · · ·
	4			W		-			<u> </u>
-		<u></u>	L	W		<u> </u>	<u> </u>		
			·			ı———			
	110	3	51	W.W	17.2	4	70	3	R.1142
	[2]	3	52	W.W	14.6	4	.70	3	R.1142
	13 14	4	52	₩.w	7.9	4	70	2	R.115
Other	15	4 6	5 51	W.W	16.6 4.3	4	70 70	2	R.II5
Roads	16	1	51	W.W	18.1	4	70	3	R.1065 R.1065
	17	1	7	W.W	30.9	4	70	3	R. 1065
*	18			W.W	30.5	 -	<u>'</u> -		N.1005
	19			W.W		 -	<u> </u>	 	
	20		 	W.W		-			
	21	271	1	W.W				1	
	22			W.W				1	
	23			W.W					
	24		1	W.W				1	
	24 25			W.W					
	26			W,W					
	27			W.W.					
	28			W.W					
	29			W.W	<u> </u>				
	30			W.W	<u> </u>		· · ·		
	[31]			W.W					
	32 33			W.W		<u> </u>			
	1			W.W			-		
	34 35			W.w	<u> </u>	ļ	ļ	 	
L	35			₩.w	<u> </u>	<u> </u>			



Traffic	Related Administrative Devisions								
Zona Coda	Changwat Name	Amphoe Name	Tambon Code						
0	Sukhothai	Khiri Mat	oll						
(2)	do	Kong Krailat	09,10						
(3)	-do	M. Sukhothai	all						
(4)	-do-	Kong Krailat	except 09,10						
(5)	Phitsanulok	M. Phitsanulok	all .						
6	-do-	Bang Rakam	all						
0	Kamphaeng Phet	Lan Krabu	all						
(B)	-do-	M.Kamphaeng Phet	all						
9	- do -	Phran Kratai	oll						
0									
(1)			1						

							FERIS'		the same of the sa
	Link	Node	Pair	Project	Distance	Physical	Speed	Admini strative	Remarks
	Code	Origin	Distination	Case	(Km)	Grade	(Km/h)	Grade	1.0
roposed	П			W	16.0	7	40	4	ARD
oad			2	W	16.0	4	70	3	
	2			W					
		:		W.					
	3			W					
	[হা			W	·				
				W					
				W					
		1	3	W.W	20.1	4	70	2	R.IOI
	12	3	4	W.W	21.1	1	80	1	R.12
	[3]	2	4	W,W	13.0	4	70	3	R , 9117
Other	[4]	4	5	W.W	35.7	1. 1.	80		R.12
₹oadş	[5]	5	6	W.W	18.1	4	70	3	R .1065
	[6]	6	51	W.W	30.6	4	70	3	R.1065
	[7]	2	51	W.W	24.5	4	70	3	R.9117
	[8]	7	51	W.W	7.0	4	70	3	R .1065
200	[19]	7	9	W.W	26.0	4	70	3	R.1065
	20	8	9	W.W	27.6	4	70	2	R.101
. •	21		9	W.W	32,5	4	70	2	R. 101
٠.	[22]			W.W	<u> </u>	<u> </u>			·
	23			W.W		1 11			
	24			₩.W		<u> </u>			
÷.:	25			W.W		<u> </u>			
.**	26			W.W					
	27			W.W					
. 129	28			w.w		1			
	29			W.W					~- <u></u>
1.1	30	1		W.W					
1	31			W.W					
· ·	32			W.W					
	33	T		W.W		T			
	34		T	W.W	/	T	T	T 1	
	33	1	1	W.W			1	1	

Remarks

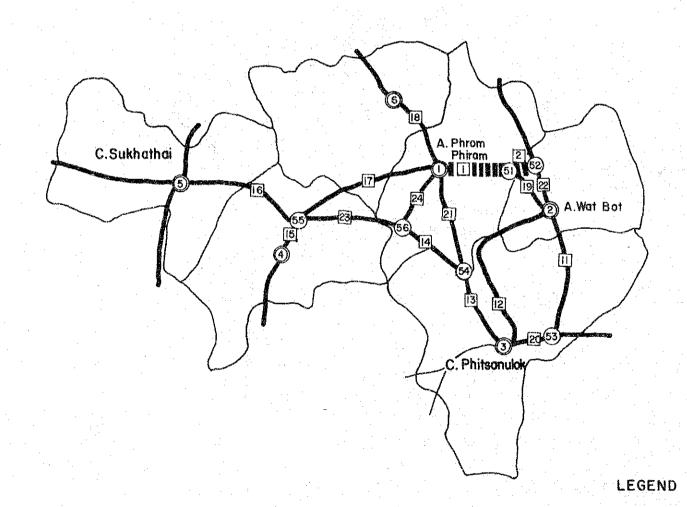
Cooperative Road

Cooperative Road

Appendix 6-3-5 ROAD NETWORK AND TRAFFIC ZONES

(19)

COOPERATIVE ROAD A. Phrom Phiram - B. Nong Makhang (J. Route 11) C. Phitsanulok



3.0 9.9 1. 70 W . 3 9.2 5.4 15 Proposed 2 52 5.4 4 7.0 3 3 W 4

Node Pair

Origin Distination Case

Link

Code

L					W					
-[
ſ			2	53	W.W	21.2	1	80	ı	R. II
1		12	2	3	W.W	26.8	4	70	3	R. 1086
Ì	1.	13	3	54	W.W	II. O	1	8.0	١	R. 12
		[4]	54	56	W.W	12.4	I	80	ı	R. 12
1		[15]	4	.55	W.W	3.0	4	70	3	R. 1055
1		16	5	55	W.W	21.1	T	80	1	R. 12
		17	1	55	W.W	27.3	4	70	3	R. (057
d	Other	[18]		6	W.W	14.0	4	70	.3	R. 1104
1	₹oads	[9]	2 .	51	W.W	14.0	7	40	4	Cooperative Road
		20	3	53	W.W	9.5	. 1	80	1	R. 12
-		21	1	54	W.W	17.0	. 7	40	4	RID
٠. :		22	2	52	.W.W	13.0	1	80	Ī	R. 11
		23	55	56	W.W	12.4	1 .	80.	1	R. 12
		24	1	56	W.W	10.5	4	7.0.	3	RID
1		25			W.W					
	id et	26			W.W					1
.		27			W.W	1				
ļ		26 27 28			W.W					
	de d	29			W.W		1.	-		
ĺ		30			W.W					
		31			W.W					
		32			W.W		1	T	1	
-		33			W.W			T		
1	4.4	34	1		W.W		T		T	
	1	35	T	T	W.W	Ť	1	1	Ť <i>i</i>	1
		1		ومعجز وتقصيب أنساسك			4			

TRAFFIC ZONES

المتسائدة والمتسائد	113	TRAITIO LUILO									
Traffic	Related Administrative Devisions										
Zone Cod	le Changwat Name	Amphoe Name	Tambon Code								
	Phitsanulok	Phrom Phiram	01,02,04,05,09,10,11,12								
2	-do-	Wat Bot	01,02,03,04								
(3)	do	M.Phitsanulok	all								
4	Sukhothdi	Kong Krailat	all								
(5)	-do-	M. Sukhothai	oll								
6	Phitsanulok	Phrom Phiram	03,06,07,08								
7											
(8)											

ROAD LINK CHARACTERISTICS

Grade

(Km/h) Grade

roject Distance Physical

(Km)

Traffic Zone

(i)**Dummy Node** R

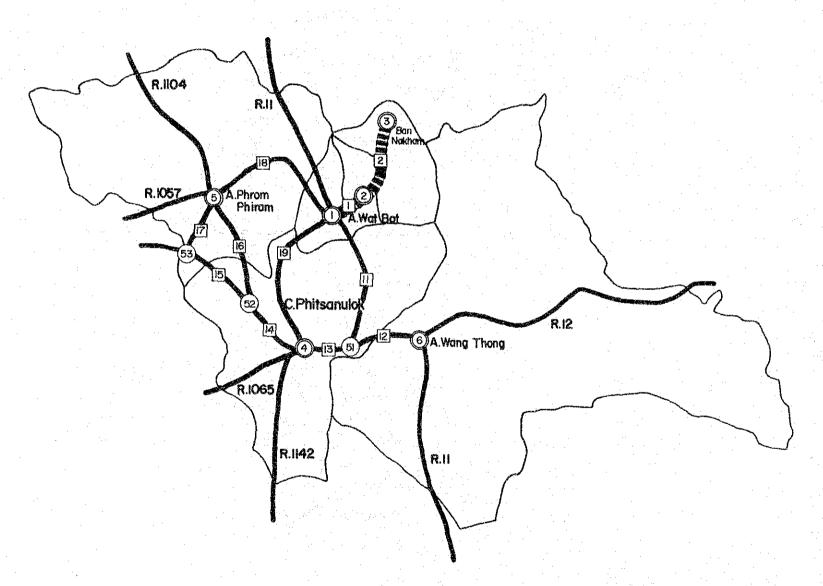
Road Link Code

Proposed Road Link

(50)

ROUTE 1220

A. Wat Bot - B. Na Kham
C. Phitsanulok



TRAFFIC ZONES

Traffic	Related Administrative Devisions						
Zone Code	Changwol Name	Amphoe Name	Tambon Code				
0	Phitsanulok	Wat Bot	01,03				
2	do	-do	02 04 all				
3	-do-	-do-					
(4)	-do-	Phlisanulok					
(5)	do	Phrom Phirom	αll				
6 −do−		Wang Thong	01,02,03,05,07,09,10				
7							
(8)							

			ROAD	LINE	CH/	ARAC1	ERIS	TICS	
	Link	Node	Pair	Project	Distance	Physical	Speed	Admini strative	Para de la constante de la con
	Code	Origin	Distination	Case	(Km)	Grade	(Km/h)		Remarks
		1	. 5	W	4.5	7 .	40	4	R. 1220
	17.1		٤.	W	4.5	4	70	3	
Propose	2	2	3	W	10,5	9	50	4	R 1220
Road	اخا	٤.	3	₩	10.5	4	70	3	
	3			₩					
				W	L				-
	4			W					<u> </u>
				W				L	
	, , , , , , , , , , , , , , , , , , ,		1		··		,		
			51	W.W	21.2		: 80		RII
	12	6	51	W W	12.5		80		R.12
	[3]	4	51	W.W	9.5		80	1	R.12
	14	4	52	W.W	II.O		80	1	R.12
	15	52	53	₩.W	12.4	1	80		R I2
	16	5	52	₩.w	17.0	7	40	4	RID
Other	17	5	53	W.W	10.5	4	70	3	RID
Roads	18		5	W.W	23.9	7	40	4	Rurai
	19	- I.	4	₩.w	26.8	4	70	3	R.I086
	20			W.W	 	-		 	
	22			W.W	-	 	 		
	23		 	W.W		ļ		-	
	24			W.W	 		-		
	25		 	W.W	 	 	ļ	 	
	26			W.W	 	 -	 	 	
	27			W.W	 			 	
	28		 	w.w	 			 	
	29		ļ	W.W				 	
	30		<u> </u>	W.W	1.0		 	 	
	31			W.W	†			 	
	32			W.W	†	<u> </u>		-	
	33			W.W	†	 	ti	†	
	34			W.W	†	t	-	†	
	35		†	w.w	1 · · · · · ·		f	1	
	A. berned	<u> </u>	<u> </u>	1	ــــــــــــــــــــــــــــــــــــــ				L

Traffic Zone

(j) Dummy Node

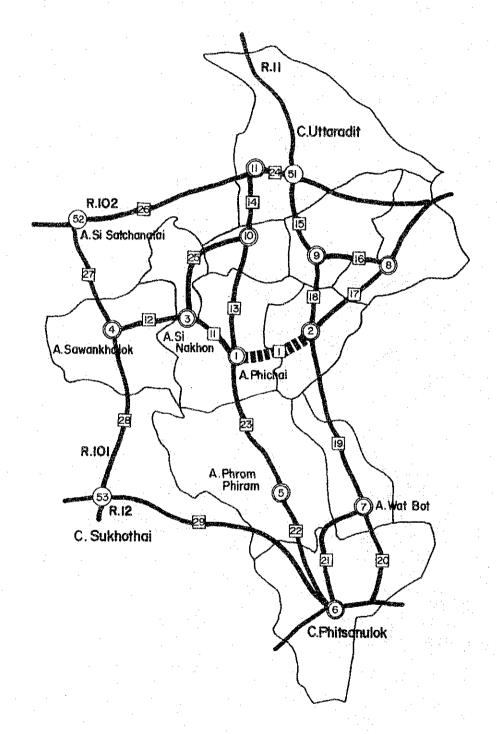
LEGEND

Road Link Code

Proposed Road Link

ROUTE 9053 ARD

B. Na Isang (J.Route II) - A. Phichai C. Uttaradit



Traffic	Re	lated Administrative Devis	ions		
Zone Code	Changwat Name	Amphoe Name	Tambon Code		
	Uttaradit	Phichai	exceptIO,II		
②	do	-do-	10,11		
(3)	Sukhothai	Si Nakhon	ali		
4	-do	Sawankhalok	all		
(5)	Phitsanulok	Phrom Phirom	except II, 12		
6	do	M.Phitsanulok	all		
0	-do	Phrom Phiram(II, I2; Wat Bot(01,02,03)			
(8)	Uttaradit	Tron	06,08		
(9)	do	do	04,05,07		
(-do-	-do-	01,02,03		
(1)	do	M.Uttaradit	all		
(2)					
(13)					

			ROAD	LINH	C CHA	ARACT	FERIS"	TICS_	
1 1	Link	Node	Pair	Project	Distance	Physical	Speed	Admini strative	Remarks
	Code	Origin	Distinction	Case	(Km)	Grade	(Km/h)	Grade	nemurks
Proposed	L3			W	22.7	7	40	4	ARD,R.9053
Road	. 🖂	I ·	2	W	18.4	4	70	3	
:	(5)		ļ.	W					:
	[2]	,		₩:					
	[3]			₩	- 1				
	[3]	×.		W			. 2-30, 200,000,000,000		
	(4)			W					
	4	1		W				İ	
									
		,	3	W.W	15,9	7	40	4	ARD
	12	3	4	W.W	15.3	4	70	3	R.1180
	13	i	10	W.W	32.0	4	70	-3	RJIO4,ARD
	[4]	10	11	₩.w	[11.0	4	70	3	R.1040
	15	9	51	W.W	25.0	1.	80		R,II
	16	8	9	W.W	12.5	7	40	4	R.1214
	[7]	. 2	8	W W	19,0	8	30	4	R.9053, R.1246
Other	[8]	2	9	W.W	15.0	2	65	1	R.II
Roods	19	2	7	W.W	. 40.0	- 1	80	1	R.H
	20	6	7	W.W	27.2	l	80	- 1	R.12, R.11
	[2]	6	7	W.W	26.8	4	70	3	R.1086
	23	5	6	W.W	17.0	7	40	4	RID
	23	1	5	W.W	25.0	4	70	3	-R.1104
	24	ъ П	51	W.W	12.0	4	. 70	3	R.1045
	25	- 3	10	W.W	24.0	4	70	3	R.1180,R119
	56		52	W.W	33.2		80	2	R.102
* * .	27	4	52	W.W	29.2	į	80	2	R.IOI
Sept. 1.	28	4	53	www.	35.6	4	70	2	R.IOI
	29	6	53	W.W	56.8	ı	80	1	R.12
	30			Ŵ.W					
	[3]			W w		L			
	[32]			W.W		T		T	I
	33 34			W.W			1		
ĺ	34			W.W		1	1		Ţ

LEGEND

Traffic Zone

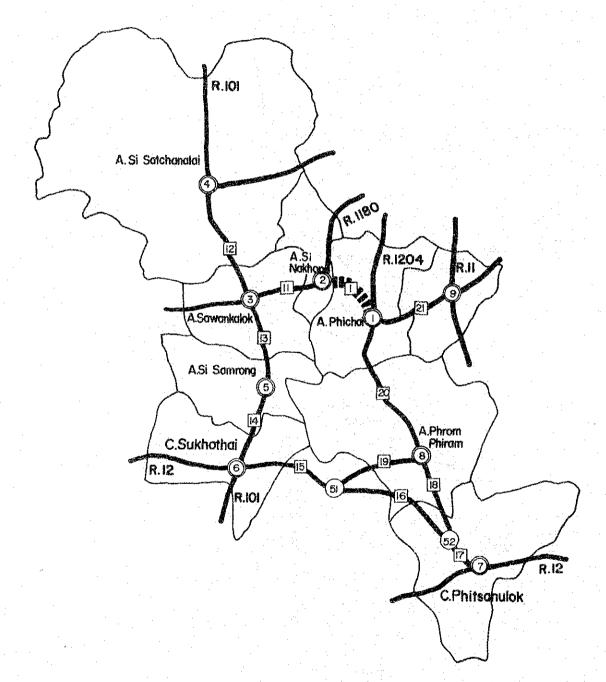
(j)Dummy Node R

Road Link Code Proposed Road Link

Other Road

ARD ROAD

A. Phichai — A. Si Nakhon C. Uttaradit C. Sukhothai



LEGEND

Traffic Zone (j)

Dummy Node

R Road Link Code

Proposed Road Link Other Road

Traffic		oted Administrative Devisi	ons
Zone Code		Amphoe Name	Tambon Code
0	Uttaradit	Phichai	except IO, II
2	Sukhothei	Si Nakhon	oil .
(3)	-do-	Sawankhalok	all
(4)	do	Si Satchanalai	all
(5)	do	Si Samrong	all
6	-do	M. Sukhothai	ali
0	Phitsanulok	M. Phitsanulok	all
(8)	do	Phrom Phiram	ali
9	Uttoradit	Phichal	Ю, II
(0)			
(1)			

			ROAD						
	Link	Node			1	Physical	!	Admini strative	Remarks
	Code	Origin	Distination	Case	(Km)	Grade	(Km/h)	Grade	TIOMO: NO
Proposed	· [m]		2	W	15.9	7	40	4	ARD
Road			. "	W	14.2	4	70	3	
	2			W				-	
	[E.]			W					
	3			W					1.0
	[2]			W					
[4			W		4	1.1		
	[2]	·.		W	-		· .		
					:			<u> </u>	
.]		2	3	W.W	15.3	4	70	3	R.II80
	12	- 3	4	W,W	29.2	4	70	2	R.IOI
	13	3	5	W.W	17.8	4 .	70	2	R.IOI
.	14	5	6	W.W	17.8:	4	70	2	R.101
٠.	15	6	51	W.W	21.1	l.	80		R.I2
Other	16	51	52	W.W	24.7	1	80	Ī	R.12
Roods	17	7.	52	W.W	II,O	. 1	80	5.1	R.12
	18	_ 8	52	W.W	17.0	4	70	4	RID
	19	. 8	51	W;W	27.3	4	70	3	R.I057
į	20	1	8	W.W	25,0	4	.70	3	R.1104
.	21	<u> </u>	9.	W.W	22.7	7	40	4	R.9053,AR
}	22			Ŵ.W					
	23	wij.j		Ŵ.W					
•	24			W.W					
	25	<u> </u>		Ŵ.W					
	26			Ŵ.W	V.				
	27	<u> </u>		,Ŵ,W,					
	28		 	W.W					
	29	41		W.W					
	30			W.W					
	31	: 		W.W					
	32			₩.w					
}	33		<u> </u>	Ŵ.W				.,	
.	34	1		W.W					
	35			w w		1	.		

ROUTE 1113 B. Muang Kao (J.Route 12) - J. Route 1048 - B. Muang Kao (J.Route 1201)

C. Sukhothai R. 101 A.Si Satchanalai R.1180 A. Sawankhlok R.1048 R.1056 C. Sukhothai R.12 C. Phitsanulok LEGEND Traffic Zone () Dummy Node Road Link Code Proposed Road Link Other Road

TRAFFIC ZONES

Traffic	Re	lated Administrative Dev	lsions
Zone Code	Changwat Name	Amphos Nams	Tambon Code
	Sukhothai	M. Sukhothai	03 ·
2	-do-	Si Samrong	06,09
3	-do-	Sawankhalk (07,13);	Thung Soliam (OI)
(4)	- do-	Si Satchanalai	10,11
(3)	-do-	do	07,08
©	-do-	Thung Saliam	02,03,04
\mathbb{Q}	-do-	Si Satchanalai	01,02,03,04,05,06,09
(B)	-do-	Si Nakhon	all
9	- do-	Sawankhalok	except 07,13
	~do-	Si Samrong	except 06,09
	-do-	M. Sukhothai	except 03
Q	-do-	Kong Krailat	all
(3)	-do-	Khiri Mat	all
<u>(4)</u>	-do-	Ban Dan Lan Hoi	all
(5)	Phitsanulok	M. Phitsanulok	all
<u></u>			

ROAD LINK CHARACTERISTICS

	1.		ROAD	LINK	CH/	ARACI	ERIS		
	Link	Node	Pair	Project	Distance	Physical	Speed	Admini strativa	Remarks
	Code	Origin	Distination	Case	(Km)	Grade.	(Km/h)	Grade	Tromat No
	(-)	_		W	16.8	_	.15	4	R. 1113
		1	2	W	16.8	4	70	3	
. 1	(3)	_		W	20.7		7	4	Cooperative Road
	2	2	3	₩	20.7	4	70	3	
 Proposed	1757		1	W	8,6		2	4	Cooperative Road
Rood	3	3	4	W	8.6	4 .	70	3	
	m		_	W	7.7	_	12	4	Rural Road
	4	4	5	W	7.7	4	70	3	

		I	14	W.W	9.9	4	70	ı	R. 12
	12	1	. II	W.W	9.9	4	70	1 1	R 12
	[3]	3	6 .	W.W	16,0	4	70	3	R 1048
	14	5	7	W.W	14.2	4	70	2	R. 101
Other	[5]	5	9	W.W	10.9	4	. 70	3	R. 1201
Roads	[6]	3	9	W.W	15,O	4	70	3	R. 1048
	17	8	9	₩.W	15.3	4	70	3	R. 1180
. :	[8]	9	10	₩.W	17.8	4	70	2	R. 101
	19	2	10	W.W	22.0	4	70	4	R. 1056
	20	10	11	₩.₩	17,8	4	70	2	R. IOI
	2]	11 .	12	W.W	21.1	1	80	ı	R. 12
	22	11:	13	W.W	20.1	4	70	2	R. 101
	[23]	12	15	W.W	35.7	<u> </u>	80	1	R. 12
	24			₩.W					
	25			W.W				1	
	25 26 27 28			W.W				<u> </u>	
	27			W.W		<u></u>		<u></u>	
	28			W.W				<u> </u>	
	29]	Ŵ.W		1			
1	30			W.W					
	[31]			Ŵ.W				L	1
									-

C. Sukhothai

C. Lampang

}			
	Λ		
	\int		
(2) (3) (3) (2) (2))		
			um ing pangangan di Kabupatèn Ang Kabupatèn Banggan di Kabupatèn Banggan di Kabupatèn Banggan Banggan Banggan Banggan Banggan Banggan Banggan B Kabupatèn Banggan Bang
R.I			
			RIOI
	A. Thung Saliam		
		[2]	A.Sawankharok
			LEGEND

Traffic Zone

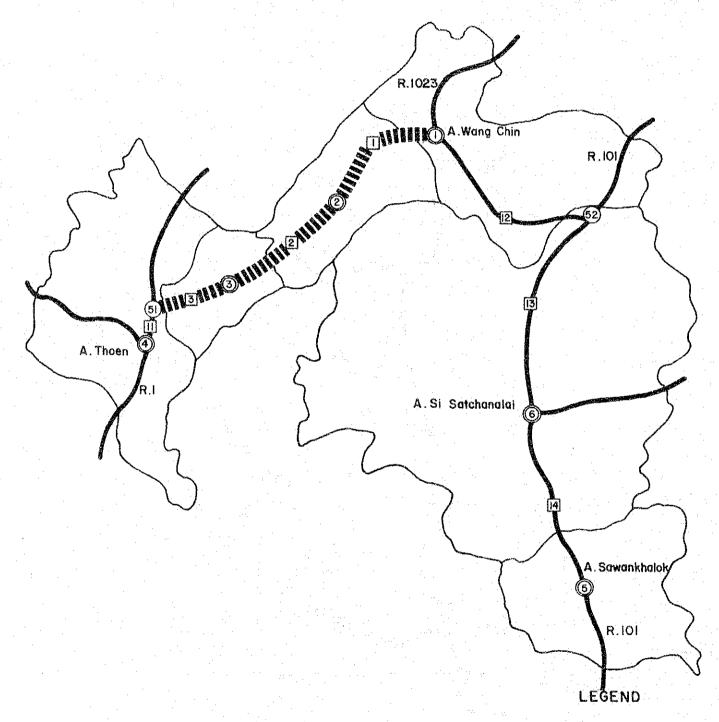
Dummy Node
R Road Link Code

Proposed Road Link
Other Road

Traffic	Related Administrative Devisions										
Zone Code	Changwat Name	Amphoe Name	Tambon Code								
0	Sukhothal	Thung Saliam	03,04								
②	Lampang	Thaen	05								
3	- do-	- do	04								
(4)	- do -	do	01,02,03,06,07,08,								
(5)	Sukhothai	Thung Saliam	01,02								
6	do	Sawankhaiak	all								
0											
(8)											

			ROAD	LINK	CH/	ARACT	ERIS		
	Link Code	Node Origin	Pair Distination		Distance (Km)	Physical Grade	Speed (Km/h)	Admini strative Grade	Remarks
	Code	Origin	DIBINGTION	<u> </u>				1	5 15.46
		1	2	₩	37.0		. 15	4	R. 1048
				W	37.0		55	3	- 1545
Proposed Road	[2]	2	3	W	13.0		10	4	R. 1048
			ļ	W	13.0		50	3	
	[3]	3	51	W	11.7		7	4	R. 1048
	<u> </u>		 	W	11.7		45	3	
	4			W		·			· · · · · · · · · · · · · · · · · · ·
ļJ		<u> </u>	<u> </u>	W					
							2.5		
Other		4	51	W.W	1.7.	!	80	1	R. 1
Roods	[2]	1	5	₩.W	16.6	4	70	3	R. 1048
	[3]	5	6	W W	20.7	4	70	3	R. 1048
	[4]	3		W.W	1	1			
	[5]			₩ w	<u> </u>				
	[6]			₩w		L	·		CANANTA AND AND AND AND AND AND AND AND AND AN
	17			W.W			<i>2</i> 1		
]	18			W.W					
	[9]	1		W W					
	20			W.W					
	[2]			W.W				T	
	22			W.W					
	23			W.W					
	24			W.W			T		
	25			W.W			1		
	26			W W					
	27			W.W			1		
	28			W.W	1		1		
	29			W W	1		1		
	29 30	1		W.W	. 1	1.	1.	 	1
	31	1		W.W		T	1	T	
	32		1	w.w		1	1	1	
	33		-	W W		1	1	1	
	34	†	+	W.W		1.	 	+	
1				77 . 77	5	E .	ł.	1	1

A. Wang Chin - B. Don Chal (J. Route I) ROUTE 1124 (25) C. Phroe C. Lampang



		Traff	ic.	70	n
		7 17 1		P" A	

1 **Dummy Node**

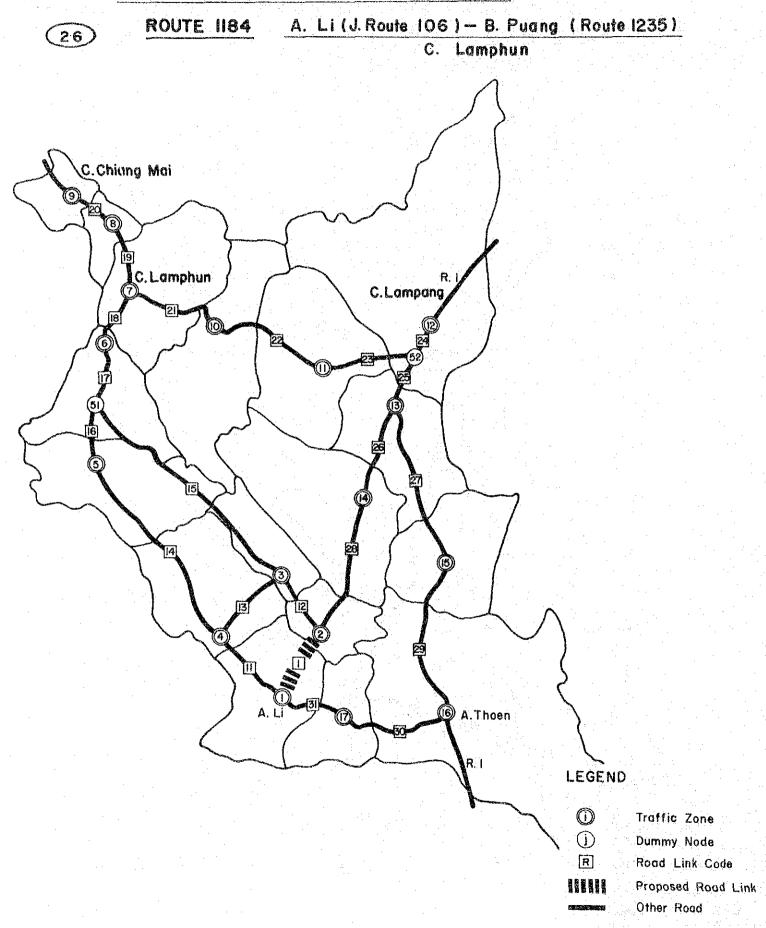
R Road Link Code Proposed Road Link

Other Road

Traffic		Related	Administrative	Devisions	
Zone Code	Changwat Name		Amphoe Name		Tambon Code
0	Phrae		Wang Chin		01,03,04
②	-do-		-do-		02,05
3	Lampang		Thoen		03
(4)	-do-		-do-		01,02,06,07,08
(5)	Sukhothai		Sawankhalok		ali
<u>(6)</u>	-do-		Sì Satchanalai		all
0					
(3)					

			ROAD	LINE	CH	ARACT	ERIS	TICS	
	Link,	Node	Pair	Project	Distance	Physical	Speed	Admini strative	
	Code	Origin	Distination	Case	(Km)	Grade	(Km/h)	Grade	Remarks
			2	W	20.5	8	30	4	R.1124
	النا		۲,	W	20.0	5	55	3	
	2	2	3	₩	20.0	Ţ	. 25	4	R.H24
Proposed Road				W	20.0		47	3	
Koos .	3	3	51	W	12.0	- 8	30	4	R.1124
				₩.	12.0	5	55	3	
	4			₩					
		L		W	L				
				[25]]					
	11 12	4	-51	₩.W	3.0	1	80	- 1	R.I
Other Roads	13	6	52 52	₩.W ₩.W	38.5 39.5	5 I	55	3	R.1125
rouus	14	5	6	W.W	29.2	4	70	2	R.101 R.101
	15			w.w	2.3.2		10		R.101
				W.W	.2.		·		
	16 17	4 7 7 2.7		W.W					
	18			W.W	1,1				
	19			W.W					
	20			W.W					The state of the s
	21		·	W.W					
	22			W.W					
	23			W.W					
	24			W.W.					
	25	· · · · · · · · · · · · · · · · · · ·		W.W					
	26 27 28			W.W		ļ.,			
	7/ 20			W.W					
	29			W.W.		100		-	
	30	1	 	₩.W					
	33 33		·	W.W		ļ	 		and the second s
				W.W.		 	 	-	
	32 33		 	W.W				-	
	34		 	₩.w	.:				
	35		1	w.w.			L17		
h		L	<u> </u>	1	L	L	L	<u> </u>	L

Appendix 6-3-5 ROAD NETWORK AND TRAFFIC ZONES



TRAFFIC ZONES

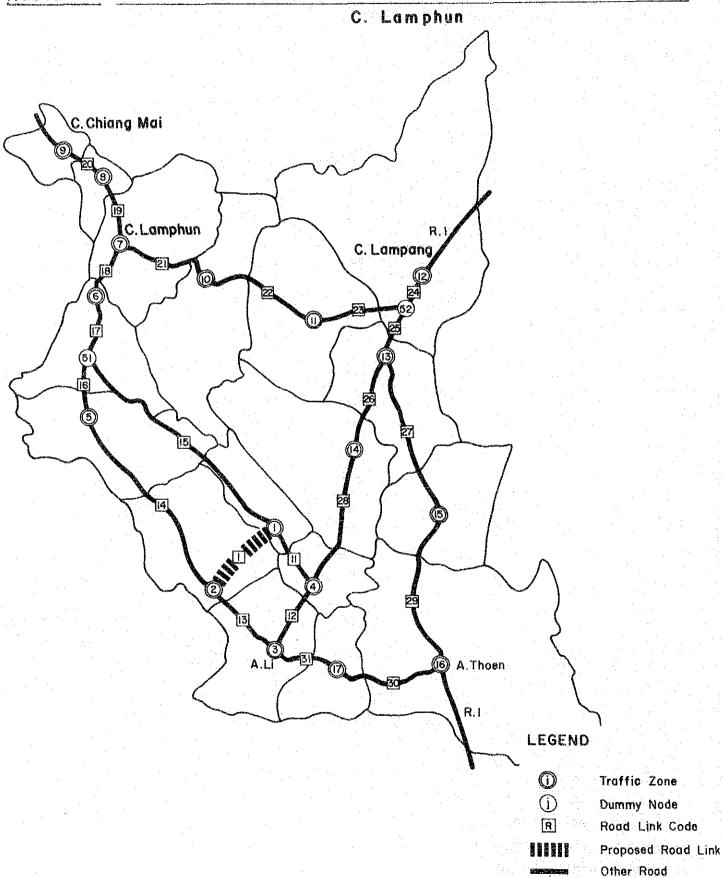
Traffic	Reid	oted Administrative Devisi	ons
Zone Code	Changwat Name	Amphoe Name	Tambon Code
	Lamphun	Li e e	01
2	-do-	Thung Hua Chang	02
3	do	-do-	01,03
4	do	Li e i je e e e.	02
(5)	-do	Ban Hong	all
6	-do-	Pa Sang	all
7	do	M. Lamphun	all
(8)	Chiang Mai	Saraphi	all
9	—do	M.Chiang Mai	all
0	Lamphun	Mae Tha	all
(1)	Lampang	Hang Chat	all
(D)	-do-	M.Lampang	ali
(3)	—do—	Ko Kha	ali
(4)	-do-	Saen Ngam	all
(15)	-do	Sop Prap	all
(6)	-do	Thoen	all
	Lamphun	Li	03,04

ROAD LINK CHARACTERISTICS

(T	Link	Node	Pair		Distance			Admini	
				-					Remarks
	Code	Origin	Distination		(Km)	Grade	(Km/h)	Grade	
Proposac	' m l		2	W	18.5	8	30	4	R.1184
Road		<u> </u>		W	18.5	5	55	3	
	[2]			W					
			ļ	W			* . :		
	3			W			· · · · · · · · · · · · · · · · · · ·		<u> </u>
	ريا			W		L			
	[4]	<u></u>		₩	·				
	التا			W					and the second of
			·						
	Ш	<u> </u>	4	W.W	19.0	1	80	2	R.106
	[2]	[2	3	W.W	14.2	8	30	4	R.1184
	13	3	4	W W	17.7	. 8	30	4	R.1219
	4	4	5	₩ w	49.6	1	80	2	R 106
	15	3	51	W.W	54.8	9	20	4	R.1184
	16	5	51	W.W	(5.0	4	- 70	2	R.106
Other	17	6	51	W W	15.0	4	70	2	R.106
Roads	8	6	7	₩w	10.0	4	70	2	R 106
	19	7	8	W.W	25.6	Į.	80	1	R.II
	20	8	9	W.W	14.2	- 1	- 80	1	R.II
	21	7	. 10	W.W	24.1	2	65	- 1	R.II
	22	10	11	W.W	28.9	2	65	11	R.II
	23	- 11 .	52	W.W	15.7	1	- 80	1	RII
	24	i2	52	W.W	6.4	ı	80	. 1	R.I
	25	13	52	W W	10.9	l	80		R.I
	26	13	14	W.W	28.0	7	40	4	Rural
	27	13	15	W.W	37.1	ı	80	1	R.I
	28	2	14	W W	33.0	8	30	4	Rural
	29 30	15	16	W.W	33.3.	ŀ	80	- 1	R I
		16	17	W.W	32.0	5	55	2	R.106
	31		17	W W	17.1	5	55	2	R.106

(27)

ROUTE 1219 B. Mae Thoei (J. Route 106) - A. Thung Hua Chang (J. Route 1184)



TRAFFIC ZONES

. }	Traffic	Re	lated Administrative Devi	sions
	Zone Code	Changwat Name	Amphoe Name	Tambon Code
		Lamphun	`Thung Hua Chang	01,03
	②	do	Li	02
	3	— do →	Li	01
	(4)	-do-	Thung Hua Chang	05
÷	(5)	do	Ban Hong	all
	6	do	Pa Sang	all
i.	7	do	M. Lumphun	all
	(B)	Chiang Mai	Saraphi	all
	9	-do	M. Ching Mai	ali
	(0)	Lamphun	Mae Tha	all
	(1)	Lampang	Hang Chai	all
	(2)	do	M. Lampang	all
j.	(3)	-do-	Ko Kha	ali
	(4)	do	Saen Ngam	all
	(5)	do	Sop Prap	ali
٠,	(6)	do	Thoen	all
		Lamphun	Li	03,04

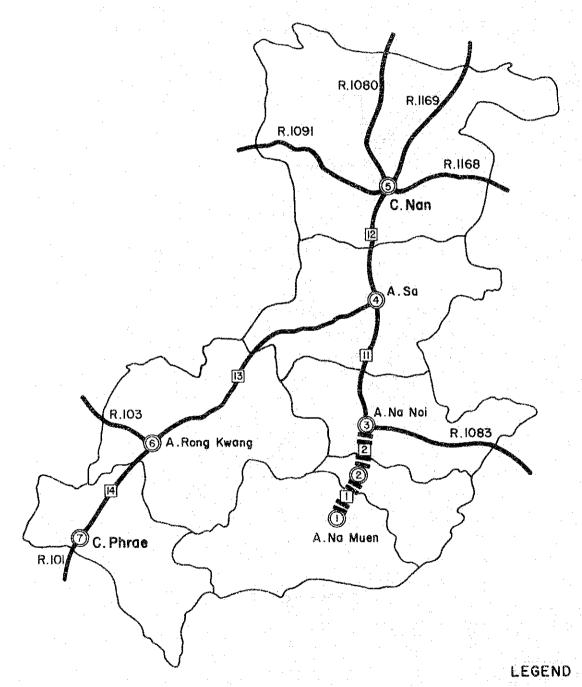
ROAD LINK CHARACTERISTICS

Link	• • •		* .	ROAD	LINK	CHA	ARACT	ERIST		
Code Origin Distinction Case (Km) Grade (Km/h) Grade Rend R.1219		Link	Node	Pair	Project	Distance	Physical	Speed	Admini	D
		Code	Origin	Distination	Case	(Km)	Grade	(Km/h)		. Memarks
The state of the	Proposed	ו [W	17.7	8	30	4	R 1219
11	Rood	ш	1	٤.		17.6	5	55	3	
3		គោ			W					
13		<u> E</u> j.			W					
		[2]			W					
		् ।			W					
Ti	+ c	[7]			W					
					W					
13				4	W.W	14.2	. 8	30	4	R.1184
			3	4	1	-18.5	.8	30	4	R.1184
15		[3]	2	3		19.0		80	2	R.106
Other Roads 16		}	2	. 5.	-	49.6	<u> 1</u>	80	5	R.106
Roads IB 6 7 W.W 10.0 4 70 2 R.106 I9 7 8 W.W 25.6 1 80 1 R.11 20 8 9 W.W 14.2 1 80 1 R.11 21 7 10 W.W 24.1 2 65 1 R.11 22 10 I1 W.W 28.9 2 65 1 R.11 23 11 52 W.W 15.7 1 80 1 R.11 24 12 52 W.W 6.4 1 80 1 R.1 25 13 52 W.W 10.9 1 80 1 R.1 26 13 14 W.W 37.1 1 80 1 R.1 28 4 14 W.W 33.0 8 30 4 Rural			<u> </u>	51	<u> </u>	54.8	9	-20	4	R.II84
Roads IB 6 7 W.W 10.0 4 70 2 R.106 I9 7 8 W.W 25.6 1 80 1 R.11 20 8 9 W.W 14.2 1 80 1 R.11 21 7 10 W.W 24.1 2 65 1 R.11 22 10 I1 W.W 28.9 2 65 1 R.11 23 11 52 W.W 15.7 1 80 1 R.11 24 12 52 W.W 6.4 1 80 1 R.1 25 13 52 W.W 10.9 1 80 1 R.1 26 13 14 W.W 37.1 1 80 1 R.1 28 4 14 W.W 33.0 8 30 4 Rural		16				15.0	4	70.	2	
19 7 8 \$\vec{W}\$.\$\W\$ 25.6 80 R.II	Other	[7]	6	51		15.0	4	70	2	R.106
20 8 9 W.W 14.2 1 80 1 R.II	Roads	-	4	7:		10.0	4	70	2	R.106
21			7		W.W	25.6		80	<u> </u>	RJI
22 10			- 8	9	W.W	14.2	1 1	80		RJI
23			7	10	4	24.1	2	65	1	R.II
24			10	H i		4	. 2	6.5		R.II -
25			11		. L	15.7	1:1	80		R.II.
26			12	52				80	1	R.I
27			13	52			. 1	80	- 1	R.I
28 4 14 W.W 33.0 8 30 4 Rural		26			<u> </u>		7	- 40	4	Rural
29 15 16 W W 33.3 1 80 1 R.1		27					1	80		RJ
30 16 17 W.W 32.0 5 55 2 R.106		28	4	14		33.0	8	30	4	Rural
		29	15	16		33.3	ļ ,	80		R.I
		30	16	17	— ——		5	55	2	R.106
		[3]	3	17	W.W	17.1	5	55	2	R.106

(28)

ROUTE 9061

A. Na Noi (Route 1026) - A. Na Muen C. Nan



(

Traffic Zone

(j)

Dummy Node Road Link Code

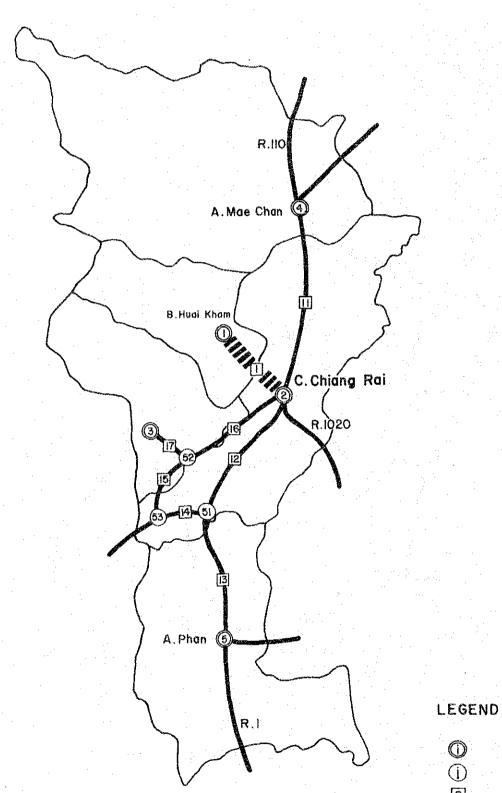
Proposed Road Link

Other Road

Traffic	Rela	ted Administrative Dévisi	ons .
Zona Code	Changwat Name	Amphoe Name	Tambon Code
0	Nan	Na Muen	ail
2	-do-	Na Noi	04
3	do	do	01,02,03
(4)	do	Sa	except 07,09
(5)	do	M. Nan	all
6	Phrae	Rong Kwang	all(Na Noi 05 included)
7	do	M. Phrae	all
(8)		AVENUA CALL	
(9)			

; ·			ROAD	LINK	CH	ARACT	TERIS"	TICS	
*	Link	Node	Pair	Project	Distance	Physical	Speed	Admini strative	Ph
	Code	Origin	Distinction		(Km)	Grade	(Km/h)	Grade	Remarks
Proposed		5. 1 5	2	W	9.0	8	30	4	R.9061
Road				₩	9.0	5	55	3	
	2	2	3	W	11.0	. 8	30	4 :	R. 9061
		<u> </u>		W	11.0	5	55	3	· · · · · · · · · · · · · · · · · · ·
	[3]	100		W	·		<u> </u>		
- 1		<u> </u>		W					<u> </u>
41.50	4			W	· · ·				
	L			₩	·			<u></u>	
		3			750	-			
015	12	4	<u>4</u> 5	₩.w ₩.w	35.0	5	55	3	R.1026
Other Roods	13	4	6	W.W	23.8 68.2	4 5	70 55	2	R.101
rccos	14	6	7	W.W	25.3	4	70	2	R.101
	15			W.W	20.0	- +	10	۷	R.101
-	16	-		W.W				·	<u> </u>
	17	<u> </u>	·	W.W	<u></u>				·
	18			W.W					
	19			W.W			T =0.00		
	20			W.W					
	21			W.W					
	22			Ŵ.W			**************************************		
	23			W:W					
- 21	24			₩.W					
	25			₩.w					
	26 27			W.W					
				W.W					
	28			W.W					
.	29 30			₩.w					
				W.W					
	31			₩.W					
. }	32 33			₩:W					
}	34			W.W					
			- 1	₩.W					
1	35			W w					

B. Rong Sua Ten (J. Route 110) - B. Huai Khom C. Chiang Rai ROUTE 1207 (29)



TRAFFIC ZONES

Traffic	Rel	ated Administrative Devision	18
Zone Code	Changwat Name	Amphoe Name	Tambon Code
	Chiang Rai	M. Chiang Rai	06
2	-do	-do-	except 06,11,12,13
3	-do-	~do~	11,12
4	-do-	Mae Chan	01,03,04,05,08
(5)	do	Phan	except 09,10,11
6			
7	4.		

ROAD LINK CHARACTERISTICS

Link Node Pair Project Distance Physical Speed Administrative	Remarks R.1207 R.110 R.110
Proposed [] 2 W 13.4 7 40 4 W 13.4 4 70 3 W W W W W W W W W	R.1207
2 W 13.4 4 70 3 W	R.HO
[2] W W W W W W W W W W W W W W W W W W W	
3 W W W W W W W W W	
4 W W W	
4	
W W	
l v l v l v l v l v l v l v l v l v l v	
1	
	R.IIO
12 2 51 WW 18.9 1 80 2	
[3] 5 51 W.W 20.0 1 80 2	R.110
Other [4] 51 53 W.W 3.8 I 80 2	R.109
Roads (5) 52 53 W W 15.0 4 70 3	R.1211
[6] 2 52 W.W 17.3 4 70 3	R 1211
7 3 52 W.W 7.0 8 30 4	Rural
IB WW	
[9] W W	
20 W.W	
W.W.	
22	
<u>23</u>	
24 W.W	
	· · · · · · · · · · · · · · · · · · ·
26 W.W	···,
28 W.W	
23 W.W.	
30 W.W	
33 W.W	
	· · · · · · · · · · · · · · · · · · ·
₩ W W	
W.W	

0 Traffic Zone

(1) Dummy Node

R Road Link Code

Proposed Road Link

Other Road

ROUTE 1174 (30)

B. Thung Ngiu (J. Route 1020) - B. Chomphu (J. Route 1020)

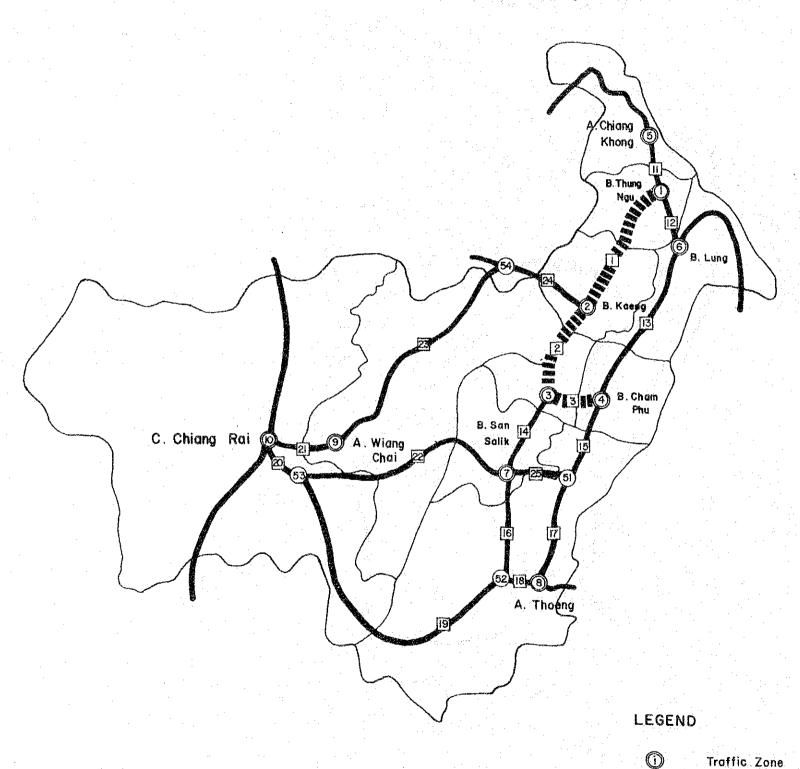
C. Chiang Rai

Traffic Zone Dummy Node

Road Link Code Proposed Road Link

Other Road

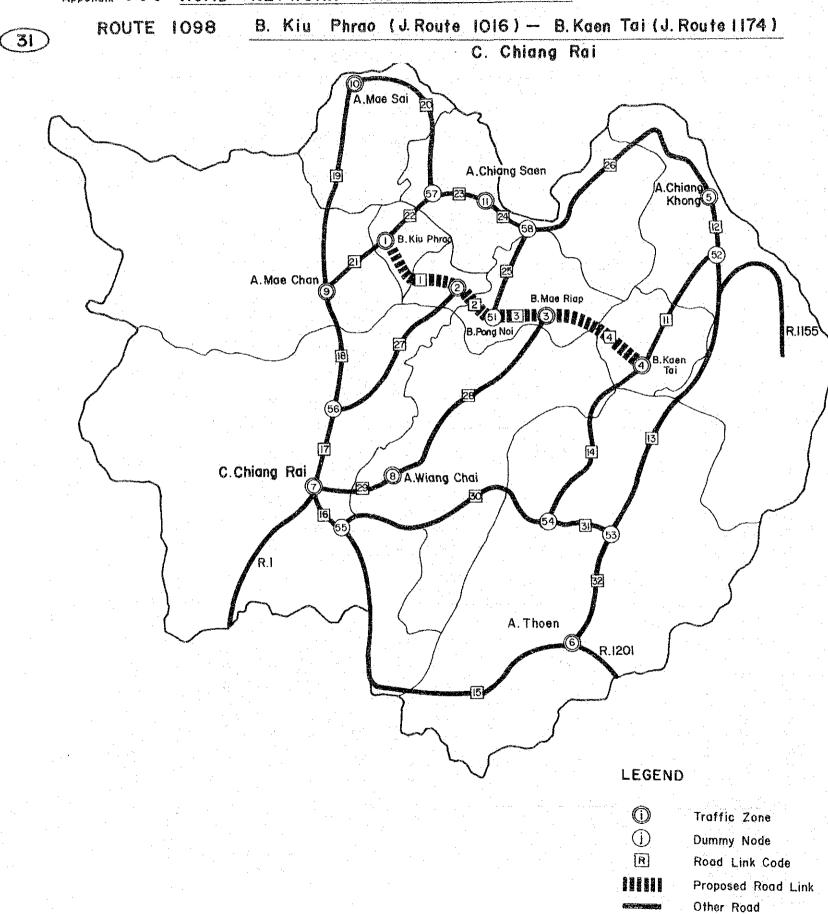
A



Traffic	Relo	ated Administrative De	visions
Zone Code	Changwat Name	Amphoe Name	Tambon Code
1	Chiang Rai	Chiang Khong	02
2	do	~ do ~	05
(3)	do	Thoeng	13
(4)	- do -	- do-	08
(5)	- do-	Chiang Khong	OI
6	do	- do-	03,04,06
7	do	Thoeng	09
(8)	do	- do-	01,02,03,04,05,06,07
(9)	- do-	Wiang Chai	ali
(0)	_ do-	M. Chiang Rai	all
(ii)			
(2)			

			ROAD	LINK	CHA	ARACT	FERIS	TICS	
	Link	Node	Pair	Project	Distance	Physical	Speed	Admini strative	BII
	Code	Origin	Distination	Cose	(Km)	Grade	(Km/h)	Grade	Remarks
				w	26.0	. 7	40	4	R. 1174
		1 	2	W	25.6	4	70	3	
	2	2	-	W	12.0	7	40	4	R. 1174
Proposed	15	2	3	W	11.5	- 4	70	3	
Rood	3	3	4	₩	9.6	7	40	4	R. 1174
	ואו			W	9,6	4	7.0	3	
	4			W					
				W					
					· · · · · · · · · · · · · · · · · · ·				
	li)	11	5	W.W	6.7	1	80	3	R.1020
	12		6	W.W	8.1	I	80	3	R.1020
	13	4	6	W.W	27.3	. 1 .	80	3	R.1020
	[4]	. 3	7	W.W	17.0	7	40	4	ARD
	15	4	51	W.W	15.4	1	80	3	R.1020
	16	: 7	52	W.W	28.0	7	40	4	ARD
Other	17	8	51	₩.W	16.2	· I	80	3	R.1020
Roads	18	8	52	W.W.	11.3	1	80	3	R.1020
	19	52	53	W.W	46.4	1	80	3	R.1020
	20	10	53	W.W	10.3	4	70	3	R 1020
	[2]	9	10	W.W	8.3	4	70	3	R.1173,R.1233
	22	7	53	W.W	40.1	4	. 70	3	R.1152
	23	9	54	W.W	42.6	4	70	3	R.1173
	24	2	54	W.W	19.0	8	30	4	R.1098
	25	7	51	W.W	12.0	4	70	3	Rural
	26		1	W.W		<u> </u>	ļ	ļ·	
	27		ļ	W.W		ļ		ļ	
	28			W.W			ļ	ļ	
	29	:		W.W	ļ	<u> </u>	· ·	<u> </u>	
	30	ļ		₩.W		ļ	ļ	ļ	
	31	 		W.W.		ļ	ļ	<u> </u>	
	32	 	<u> </u>	W.W	1		ļ		
	33	ļ	1	W.W	ļ		ļ	ļ	
	34		1	W.W	ļ .	ļ		1	ļ
	35	<u> </u>	1	W.W	<u></u>	1	L	J	L
								7.7	10

NETWORK AND TRAFFIC ZONES Appendix 6-3-5 ROAD



Traffic	Re	lated Administrative Devis	ions
Zone Code	Changwat Name	Amphoe Name	Tambon Code
0	Chiang Rai	Mae Chan	02
(2)	-do-	-do-	06
(3)	do	-do	07
(4)	do	Chiang Khong	05
(5)	do	do	except 05
6	-do	Thaeng	all.
0	~do~	M. Chleng Rai	ail
(3)	-do	Wiang Chai	all
(9)	do	Mae Chan	01,03,04,05,08
(0)	-do-	Mae Sai	all
()	do	Chiang Saen	all
(12)		, e sue	

	Link	Node	ROAD	Droise	Distance	Dhyeissi	Sneed	Admini strative	
	Code		T					L	Remarks
<u> </u>	Code	Origin	Distination		(Km)	Grade	(Km/h)	Grade	5 1000
	[1]	1	2	W	15.7	7	40	4	R. 1098
				₩	15.7	4	70	3 -	D 1000
	2	2	51	₩	12.1	8	30	4	R. 1098
Proposec Road	1			W	11.6	5	55	3	n 100 e
1000	3	3	51		9.2	8	30	4	R. 1098
			 	W	9.2	5	55	3	D 1000
	4	3	4	W	19.0	8	30	4	R. 1098
				W	19.0	5	55	3	
			T - 2	T 55	1000	T	T 40	T .	T
	[1]	4	52	W.W	26.0	7	4.0	4	R. 117 4
	[2]	5	52	W.W	6.7	1	80	3	R. 1020
	13	52	53	W.W	50.8	1	80	3	R.1020
	ليسا	4	54	₩.w	29.0	7	40	4	R. 1174, ARD
	15	- 6	55	W.W	57.7		80	3	R.1020
	16	7	55	W W	10.3	4	70	3	R 1020
Other		7	56	W.W	11.1		80	2	R. 110
Roads	 	9	56	W.W	17.3	1	80	2	R. 110
	[19]	. 9	10	W.W	31.5	1	80	2	RIIO
	20	10	57	W.W	32.0	7	40	4	ARD
	웹	<u> </u>	9	W.W	10.9	1	80	3	R.1016
	22		57	W.W	9.4		80	3	R.1016
:	23	11	57	W.W	11.4		80	3	R.1016
	24	11	58	W:W	10.1	7	40	4	R 1129
	25	51	58	W.W	18.1	8	30	4	рон
	26	5	58	W.W	43.0	8	30	3	R 1129
	27	5	56	W W	31.0	7	40	4	R.1209
	28	3	8	W.W	42.6	4	70	3.	R 1173
	29	7	8	W.W	8.3	4	70	. 3	R.1173, R.1233
	30	54	55	W.W	40.1	4	.70	3	R. 1152
	31	53	54	W.W	12.0	4	70	3	ARD
	32	6	53	W.W	16.3	1	80	3	R.1020
	[33]		1	W W	1		1		
	34		1.	W W]			
	[35]	1	'	W.W					

Appendix 6-3-6 PASSENGER FLOW VOLUME BY O/D ZONE PAIR

(Trip/Day)

Same and the same of the same			(Trip/Day)
Study Route No.	Without Project	With Project	
	1 2 3 4 5 6 7 8 9 1 0 290 502 386 826 283 427 89 93 2 0 0 196 139 207 107 155 34 36 3 0 0 0 339 325 212 369 63 66 4 0 0 0 0 355 422 968 140 143 5 0 0 0 0 0 347 401 121 130 6 0 0 0 0 0 730 155 167 7 0 0 0 0 0 0 0 136 141 8 0 0 0 0 0 0 0 0 0 0 0	1 2 3 4 5 6 7 8 9 1 0 290 502 429 826 283 427 91 96 2 0 0 196 216 245 113 175 37 39 3 0 0 0 496 351 212 369 68 71 4 0 0 0 0 378 422 968 140 143 5 0 0 0 0 0 347 401 124 132 6 0 0 0 0 0 0 730 155 167 7 0 0 0 0 0 0 0 136 141 8 0 0 0 0 0 0 0 0 0 0 0	
2	1 2 3 4 5 6 7 1 0 284 381 736 232 274 394 2 0 0 259 222 99 183 152 3 0 0 0 401 309 695 1109 4 0 0 0 0 760 745 407 5 0 0 0 0 0 1743 225 6 0 0 0 0 0 0 467 7 0 0 0 0 0 0	1 2 3 4 5 6 7 1 0 353 432 736 232 306 394 2 0 0 417 283 113 224 198 3 0 0 0 432 309 695 1109 4 0 0 0 0 760 745 407 5 0 0 0 0 0 1743 225 6 0 0 0 0 0 0 467 7 0 0 0 0 0 0	
3	1 2 3 4 5 6 7 8 1 0 741 181 376 714 699 382 691 2 0 0 128 152 201 230 129 170 3 0 0 0 252 91 181 149 112 4 0 0 0 0 309 695 1109 381 5 0 0 0 0 0 1743 225 232 6 0 0 0 0 0 0 467 274 7 0 0 0 0 0 0 0 394 8 0 0 0 0 0 0 0	1 2 3 4 5 6 7 8 1 0 765 333 460 714 699 382 691 2 0 0 236 261 240 260 166 212 3 0 0 0 407 126 222 196 130 4 0 0 0 0 309 695 1109 381 5 0 0 0 0 0 1743 225 232 6 0 0 0 0 0 0 467 274 7 0 0 0 0 0 0 0 394 8 0 0 0 0 0 0 0	
4	1 2 3 4 5 6 7 8 9 1 0 167 158 315 601 274 175 279 162 2 0 0 250 400 269 178 197 172 118 3 0 0 451 252 161 222 211 127 4 0 0 0 514 408 649 429 266 5 0 0 0 0 658 321 809 407 6 0 0 0 0 0 996 356 274 7 0 0 0 0 0 0 0 261 198 8 0 0 0 0 0 0 0 0 338 9 0 0 0 0 0 0 0 0 0	1 2 3 4 5 6 7 8 9 1 0 298 165 315 601 274 175 279 162 2 0 0 250 551 424 211 236 201 132 3 0 0 0 451 255 167 237 211 127 4 0 0 0 0 514 408 649 429 266 5 0 0 0 0 0 658 321 809 407 6 0 0 0 0 0 996 356 274 7 0 0 0 0 0 0 0 261 198 8 0 0 0 0 0 0 0 0 338 9 0 0 0 0 0 0 0	ikke ka ke se seranti anga at ti sukulumba at ika pilitika gipalakan untung yang Palalalan Mayagi

Note: Year 1986

Appendix 6-3-6 PASSENGER FLOW VOLUME BY O/D ZONE PAIR

(Trip/Day)

Constructive transmission			(Trip/Day)
Study Route No.	Without Project	With Project	
5	1 2 3 4 5 6 7 8 9 1 0 51 180 231 131 186 945 424 159 2 0 0 91 91 76 61 137 44 45 3 0 0 0 600 521 632 738 128 136 4 0 0 0 0 452 272 508 183 280 5 0 0 0 0 0 233 431 104 132 6 0 0 0 0 0 0 1059 118 97 7 0 0 0 0 0 0 0 459 334 8 0 0 0 0 0 0 0 194 9 0 0 0 0 0 0 0 0	1 2 3 4 5 6 7 8 9 1 0 534 463 264 225 255 1136 424 169 2 0 0 630 302 259 397 773 212 131 3 0 0 0 600 521 632 738 229 159 4 0 0 0 0 452 272 508 183 280 5 0 0 0 0 233 431 155 132 6 0 0 0 0 0 1059 143 106 7 0 0 0 0 0 0 501 334 8 0 0 0 0 0 0 0 0 9 0 0 0 0 0 0 0 0	
6	1 2 3 4 5 6 7 8 9 1 0 92 113 450 96 893 362 517 303 2 0 0 389 459 355 149 96 107 131 3 0 0 0 967 172 190 112 121 143 4 0 0 0 0 449 823 412 417 462 5 0 0 0 0 155 101 113 140 6 0 0 0 0 0 761 566 493 7 0 0 0 0 0 0 527 679 8 0 0 0 0 0 0 0 855 9 0 0 0 0 0 0 0	1 2 3 4 5 6 7 8 9 1 0 485 249 450 195 893 362 517 303 2 0 0 506 668 355 490 218 296 236 3 0 0 0 1042 215 288 150 201 179 4 0 0 0 0 449 823 412 417 462 5 0 0 0 0 0 244 143 189 186 6 0 0 0 0 0 0 761 566 493 7 0 0 0 0 0 0 0 527 679 8 0 0 0 0 0 0 0 0 855 9 0 0 0 0 0 0 0	
7	1 2 3 4 5 6 7 8 1 0 163 239 163 160 114 304 408 2 0 0 95 66 67 48 87 96 3 0 0 0 1460 882 481 219 241 4 0 0 0 0 1206 543 190 215 5 0 0 0 0 765 193 209 6 0 0 0 0 0 139 148 7 0 0 0 0 0 0 0 0 0 0	1 2 3 4 5 6 7 8 1 0 315 447 277 245 156 304 408 2 0 0 607 284 205 128 109 127 3 0 0 0 1460 882 481 226 250 4 0 0 0 0 1206 543 190 215 5 0 0 0 0 0 765 193 209 6 0 0 0 0 0 139 148 7 0 0 0 0 0 0 0 471 8 0 0 0 0 0 0	
8	1 2 3 4 5 6 7 8 9 10 11 12 1 0 136 167 83 78 233 133 326 174 347 349 577 2 0 0 436 129 142 295 309 106 63 192 160 203 3 0 0 0 96 100 364 196 96 63 221 205 298 4 0 0 0 0 513 555 229 108 69 143 92 97 5 0 0 0 0 0 945 259 105 65 140 87 94 6 0 0 0 0 0 525 227 143 416 264 296 7 0 0 0 0 0 0 187 110 212 150 166 8 0 0 0 0 0 0 0 0 413 613 205 198 9 0 0 0 0 0 0 0 0 0 326 125 120 10 0 0 0 0 0 0 0 0 0 0 978 547 11 0 0 0 0 0 0 0 0 0 0 0 0 0 772 12 0 0 0 0 0 0 0 0 0 0 0 0	1 2 3 4 5 6 7 8 9 10 1 0 355 197 117 117 253 218 544 242 402 2 0 0 436 129 142 295 309 190 111 203 3 0 0 0 96 100 364 196 130 81 221 4 0 0 0 0 513 555 229 108 70 143 5 0 0 0 0 0 945 259 105 66 140 6 0 0 0 0 0 525 227 145 416 7 0 0 0 0 0 0 0 187 111 213 8 0 0 0 0 0 0 0 187 111 213 8 0 0 0 0 0 0 0 0 0 413 613 9 0 0 0 0 0 0 0 0 0 0 326 10 0 0 0 0 0 0 0 0 0 0 0 11 0 0 0 0 0 0	11 12 349 577 160 203 205 298 92 97 87 94 264 296 150 166 226 268 135 151 978 547 0 772 0 0

Appendix 6-3-6 PASSENGER FLOW VOLUME BY O/D ZONE PAIR

(Trip/Day)

Study	Without Project	With Project
Route No.		
9	1 2 3 4 5 6 7 8 9 10 11 12 1 0 577 167 83 78 233 133 326 173 347 349 136 2 0 0 298 97 94 296 166 198 120 547 772 203 3 0 0 0 96 100 364 196 96 63 221 205 436 4 0 0 0 0 555 229 108 69 143 92 129 5 0 0 0 0 945 259 105 65 140 87 142 6 0 0 0 0 0 525 227 142 416 264 295 7 0 0 0 0 0 0 0 167 108 108 108 108 108 108 108 108 108<	1 2 3 4 5 6 7 8 9 10 11 12 1 0 736 208 89 85 259 147 544 240 415 481 160 2 0 0 298 97 94 296 166 342 178 547 772 203 3 0 0 0 96 100 364 196 134 83 221 205 436 4 0 0 0 0 513 555 229 108 69 143 92 129 5 0 0 0 0 0 945 259 105 65 140 87 142 6 0 0 0 0 0 0 525 227 146 416 264 295 7 0 0 0 0 0 0 0 187 109 212 150 309 8 0 0 0 0 0 0 0 0 187 109 212 150 309 8 0 0 0 0 0 0 0 0 0 0 323 147 75 10 0 0 0 0 0 0 0 0 0 0 0 0 978 192 11 0 0 0 0 0 0 0 0 0 0 0 0 0 0
10/11	1 2 3 4 5 6 7 8 1 0 438 290 158 626 1463 1644 829 2 0 0 379 84 356 917 274 239 3 0 0 0 67 312 846 167 131 4 0 0 0 0 297 273 184 212 5 0 0 0 0 0 1868 364 262 6 0 0 0 0 0 0 703 474 7 0 0 0 0 0 0 0 0 1445 8 0 0 0 0 0 0 0	1 2 3 4 5 6 7 8 1 0 807 376 158 626 1463 1644 829 2 0 0 379 90 411 1162 354 281 3 0 0 0 67 312 846 199 161 4 0 0 0 0 297 273 184 212 5 0 0 0 0 0 1868 364 262 6 0 0 0 0 0 0 703 474 7 0 0 0 0 0 0 0 0 1445 8 0 0 0 0 0 0 0
1.2	1 2 3 4 5 6 7 8 9 1 0 111 92 74 163 205 314 1160 390 2 0 0 321 216 159 158 145 348 392 3 0 0 0 319 193 184 162 273 271 4 0 0 0 0 297 254 206 208 185 5 0 0 0 0 0 1309 783 334 196 6 0 0 0 0 0 0 1713 421 222 7 0 0 0 0 0 0 0 630 318 8 0 0 0 0 0 0 0 0 0 1702 9 0 0 0 0 0 0 0 0	1 2 3 4 5 6 7 8 9 1 0 411 270 162 163 205 314 1160 390 2 0 0 321 216 159 158 190 491 392 3 0 0 0 319 193 184 162 357 271 4 0 0 0 0 297 254 206 254 185 5 0 0 0 0 0 1309 783 334 196 6 0 0 0 0 0 0 1713 421 222 7 0 0 0 0 0 0 0 630 318 8 0 0 0 0 0 0 0 0 1702 9 0 0 0 0 0 0 0 0
13	1 2 3 4 5 6 7 8 9 10 11 1 0 87 238 687 98 431 189 110 154 537 284 2 0 0 326 143 250 182 180 92 188 204 73 3 0 0 0 379 311 496 596 232 356 692 210 4 0 0 0 0 163 897 374 186 242 769 509 5 0 0 0 0 0 204 183 110 156 199 80 6 0 0 0 0 0 1127 209 257 371 271 7 0 0 0 0 0 0 171 287 335 129 8 0 0 0 0 0 0 0 398 139	1 2 3 4 5 6 7 8 9 10 11 1 0 253 350 687 214 431 196 115 174 537 284 2 0 0 326 403 250 200 208 99 188 239 158 3 0 0 530 371 496 596 232 366 692 211 4 0 0 0 334 897 374 194 268 769 509 5 0 0 0 0 220 201 116 182 221 134 6 0 0 0 0 1127 209 257 371 271 7 0 0 0 0 0 171 287 335 129 8 0 0 0 0 0 0 0 398 139 10 0 0 0 0

Appendix 6-3-6 PASSENGER FLOW VOLUME BY O/D ZONE PAIR

A		(Trip/Day)
Study Route No.	Without Project	With Project
14	1 2 3 4 5 6 1 0 245 179 661 461 613 2 0 0 408 193 201 226 3 0 0 0 152 175 199 4 0 0 0 0 895 438 5 0 0 0 0 0 1351 6 0 0 0 0 0	1 2 3 4 5 6 1 0 415 320 661 461 613 2 0 0 408 283 255 284 3 0 0 0 241 240 269 4 0 0 0 0 895 438 5 0 0 0 0 0 1351 6 0 0 0 0 0
15	1 2 3 4 5 6 1 0 453 742 839 759 416 2 0 0 796 520 309 561 3 0 0 0 1227 706 1481 4 0 0 0 0 535 596 5 0 0 0 0 972 6 0 0 0 0	1 2 3 4 5 6 1 0 650 1330 839 759 657 2 0 0 796 520 369 561 3 0 0 0 1227 706 1481 4 0 0 0 0 535 596 5 0 0 0 0 0 972 6 0 0 0 0 0
16	1 2 3 4 5 6 7 8 9 10 11 1 0 386 227 241 384 448 283 256 183 531 386 2 0 0 529 463 454 285 194 200 139 279 637 3 0 0 0 1868 951 466 279 284 149 227 447 4 0 0 0 0 877 484 305 325 176 259 493 5 0 0 0 0 0 2448 1023 817 371 375 515 6 0 0 0 0 0 0 472 442 219 374 404 7 0 0 0 0 0 0 1385 408 254 283 8 0 0 0 0 0 0 0 0 1101 462 467 9 0 0 0 0 0 0 0 0 0 515 422 10 0 0 0 0 0 0 0 0 0 0 0 182 11 0 0 0 0 0 0 0 0 0 0	1 2 3 4 5 6 7 8 9 10 11 1 0 620 277 280 384 448 283 256 183 531 445 2 0 0 529 463 454 340 227 227 159 348 637 3 0 0 0 1868 951 466 279 284 149 259 447 4 0 0 0 0 817 371 375 515 6 0 0 0 0 2448 1023 817 371 375 515 6 0 0 0 0 472 442 219 374 438 7 0 0 0 0 0 1385 408 254 305 8 0 0 0 0 0 0 1101 462 467 9 0 0 0 0 0
17	1 2 3 4 5 6 7 1 0 436 345 335 338 1231 448 2 0 0 300 252 234 441 179 3 0 0 0 534 406 885 158 4 0 0 0 0 1868 776 210 5 0 0 0 0 759 237 6 0 0 0 0 0 513 7 0 0 0 0 0 0	1 2 3 4 5 6 7 1 0 436 534 446 415 1231 448 2 0 0 300 308 268 523 204 3 0 0 0 534 406 885 200 4 0 0 0 0 1868 776 248 5 0 0 0 0 759 272 6 0 0 0 0 0 513 7 0 0 0 0 0 0
18	1 2 3 4 5 6 7 8 9 1 0 294 1101 369 371 233 183 422 515 2 0 0 393 509 355 212 209 168 161 3 0 0 0 1252 817 442 256 467 462 4 0 0 0 0 925 427 256 256 229 5 0 0 0 0 0 2448 384 437 375 6 0 0 0 0 0 0 448 404 374 7 0 0 0 0 0 0 0 386 531 8 0 0 0 0 0 0 0 0 1182 9 0 0 0 0 0 0 0 0	1 2 3 4 5 6 7 8 9 1 0 491 1101 504 436 276 230 422 515 2 0 0 393 509 355 212 209 190 194 3 0 0 0 1252 817 442 256 467 462 4 0 0 0 0 925 427 256 284 266 5 0 0 0 0 0 2448 384 437 375 6 0 0 0 0 0 0 448 404 374 7 0 0 0 0 0 0 0 386 531 8 0 0 0 0 0 0 0 0 1182 9 0 0 0 0 0 0 0 0

Appendix 6-3-6 PASSENGER FLOW VOLUME BY O/D ZONE PAIR

				(Trip/Day)
Study Route No.	Without Project		With Project	
19	1 2 3 4 5 6 1 0 283 1020 764 592 773 2 0 0 932 218 226 153 3 0 0 0 923 815 485 4 0 0 0 0 1175 332 5 0 0 0 0 0 304 6 0 0 0 0 0		1 2 3 4 5 6 1 0 549 1020 764 592 773 2 0 0 932 270 267 245 3 0 0 0 923 815 485 4 0 0 0 0 1175 332 5 0 0 0 0 0 304 6 0 0 0 0 0	
20	1 2 3 4 5 6 1 0 280 87 751 310 456 2 0 0 70 372 168 231 3 0 0 0 145 79 94 4 0 0 0 0 1202 2031 5 0 0 0 0 0 478 6 0 0 0 0 0		1 2 3 4 5 6 1 0 280 240 751 310 456 2 0 0 158 416 182 256 3 0 0 0 260 125 164 4 0 0 0 0 1202 2031 5 0 0 0 0 478 6 0 0 0 0 0	
21	1 2 3 4 5 6 7 8 9 10 1 1 0 221 497 520 834 560 181 89 224 413 64 2 0 0 90 122 141 248 198 92 380 98 26 3 0 0 0 1014 269 261 93 55 130 412 58 4 0 0 0 0 344 425 147 78 176 406 66 5 0 0 0 0 0 1187 283 71 163 239 42 6 0 0 0 0 0 0 1083 120 280 239 45 7 0 0 0 0 0 0 0 74 192 97 23 8 0 0 0 0 0 0 0 0 0 248 74 19 9 0 0 0 0 0 0 0 0 0 0 248 74 19 9 0 0 0 0 0 0 0 0 0 0 0 0 121 11 0 0 0 0 0 0 0 0 0 0	4 1 7 8 5 2 8 3 7	1 2 3 4 5 6 7 8 9 10 1 0 512 497 520 834 560 261 126 378 413 2 0 0 136 169 219 248 198 92 380 120 3 0 0 0 1014 269 261 120 59 145 412 4 0 0 0 0 344 425 168 83 192 406 5 0 0 0 0 0 1187 283 92 228 239 6 0 0 0 0 0 0 1083 120 280 239 7 0 0 0 0 0 0 0 74 192 110 8 0 0 0 0 0 0 0 0 0 248 74 9 0 0 0 0 0 0 0 0 0 0 0 0 11 0 0 0 0 0 0	11 544 261 587 588 425 452 238 193 587 1211
22	1 2 3 4 5 6 7 8 9 1 0 497 520 270 301 323 598 884 220 2 0 0 1014 334 427 337 272 285 90 3 0 0 894 1418 841 425 364 121 4 0 0 0 0 449 399 281 225 80 5 0 0 0 0 0 1511 463 331 83 6 0 0 0 0 0 0 817 599 95 7 0 0 0 0 0 0 0 1418 153 8 0 0 0 0 0 0 0 0 149 9 0 0 0 0 0 0 0		1 2 3 4 5 6 7 8 9 1 0 824 788 339 397 354 598 884 220 2 0 0 1014 334 427 337 334 394 115 3 0 0 0 894 1418 841 449 465 148 4 0 0 0 0 0 449 399 293 265 92 5 0 0 0 0 0 1511 463 331 97 6 0 0 0 0 0 0 817 599 100 7 0 0 0 0 0 0 0 1418 153 8 0 0 0 0 0 0 0 0 149 9 0 0 0 0 0 0 0 0	

Appendix 6-3-6 PASSENGER FLOW VOLUME BY O/D ZONE PAIR

(Trip/Day)

ودر وما وما كالمعدد معين المراجع المعدد المع						COMPANIES AREA	MANTHUR WARE A			:							ribina situan bermusia		Decores agent John and	Plant him to be produced and the second		202						(TTT	/ Day)
Study Route No.				W	ithou	ıt Pro	ject														With	Pro	ject			en agriculture de la calculate	a de l'imperior de l'action de service de la confession de l'action de l'action de l'action de l'action de l'ac		
23	1 2 3 4 5 5 7 8 9 0 11 12 13 14 15	100000000000000000000000000000000000000	2 91 0 0 0 0 0 0 0	3 124 82 0 0 0 0 0	4 60 42 87 0 0 0 0 0 0	5 115 75 264 122 0 0 0 0	6 107 73 526 77 174 0 0 0	7 148 100 270 149 570 208 0 0 0	8 139 92 293 97 294 205 301 0 0	9 307 192 855 203 732 510 813 964 0	10 425 234 347 121 344 250 365 387 1223 0 0	11 884 195 273 120 256 225 315 305 724 1241 0 0	162 82 148 143 197 182 383 476 1254 0	13 357 102 138 70 126 123 168 154 323 396 997 408 0	14 544 86 117 60 107 104 142 131 275 338 858 349 290 0	15 336 141 187 109 168 177 238 210 404 420 740 1023 371 316		illi Laura Philiphic construction (1920)		gagaga garan ku ya Tan Lu ya	O's a di System au anche a pientino			HS.				ang ag ang ang ang ang ang ang ang ang a	отнечения повымочення сесто (20
		TO PARTIE OF THE											1 2 3 4 5 5 7 8 9 10 11 12 13 14 15	100000000000000000000000000000000000000	27 000000000000000000000000000000000000	3 210 316 0 0 0 0 0	4141 182 398 0 0 0 0 0 0	12 148 400 34411	14 05 11	5 158 188 525 305 231 0 0 0 0	7 154 155 363 439 570 255 0 0 0	8 139 133 293 218 294 205 301 0 0	9 307 315 855 674 732 510 813 964 0 0	10 425 234 347 261 344 250 365 387 1223 0 0	11 884 440 293 213 256 237 315 305 724 1241 0 0	12 435 207 170 129 148 150 197 182 383 476 1254	13 357 173 145 110 126 128 168 154 323 396 997 408 0	14 544 271 180 126 112 146 148 131 275 338 858 349 290 0	15 336 202 194 152 168 183 238 210 404 420 740 1023 371 316 0
2.4	1 2 3 4 5 6	1 0 0 0 0	2 23 0 0 0 0	3 12 23 0 0 0	4 22 26 40 0 0	5 421 19 10 20 0	6 383 36 20 39 686		Villador John fra su papa paga japan	Kala Anganhawa — 17 ya						2 3 4 5	1 0 0 0 0 0	2 94 0 0 0	3 53 132 0 0	114 170 280 0	64 39 88 0	383 97 63 150 686	5 5 0	and the second seco	enterror militario de egabe.	emassen 6.4 de front de la ega que	5 Mil tallinadih yang epina		
25	1 2 3 4 5 6	1 0 0 0 0	2 138 0 0 0 0	34 53 0 0	4 72 92 165 0 0	5 124 67 28 67 0	6 157 76 30 70 894 0									2 3 4 5	1 0 2 0 0 0	2 75 0 1 0 0	3 68 105 0 0	4 140 176 296 0 0	124 78 37	157 93 41 100 894	7 5		The Control of the Co	anna Sarah	a managan da managan d	ukang paki Kamananga pang	and the second s

Appendix 6-3-6 PASSENGER FLOW VOLUME BY O/D ZONE PAIR

(Trip/Day)

#001#h000mmus.com/changes								44.4	 				1000											* *	. "	(111)	b) nay)) :
Study Route No.						Witho	ut Pr	oject							Carlot Market of the Service Constitution of the Service C	M300.47.40	TO THE PROPERTY OF THE PARTY OF		Ŷ	lith P	rojec	: t	edy capped the Committee of the Committe	ant also ant have concerning	i.	<u> The Company of the Park of t</u>		_d teer _{lig}
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Appendix 6-3-6 PASSENGER FLOW VOLUME BY O/D ZONE PAIR

						(Trip/Day)
Study Route No.		Without Project			With Project	
27	1 2 3 1 0 116 87 2 0 0 400 3 0 0 0 4 0 0 0 5 0 0 0 6 0 0 0 7 0 0 0 9 0 0 0 10 0 0 0 11 0 0 0 11 0 0 0 11 0 0 0 11 0 0 0 11 0 0 0 11 0 0 0 11 0 0 0 11 0 0 0 11 0 0 0 11 0 0 0	4 5 6 7 8 9 68 78 73 92 52 76 45 202 148 178 93 132 69 154 129 158 86 124 0 35 36 46 26 39 0 0 580 584 243 320 0 0 0 1875 647 730 0 0 0 0 1334 1324 0 0 0 0 0 0 1896 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	39 36 71 48 68 59 99 68 64 61 122 84 20 25 51 35 175 130 201 118 441 253 363 211 868 416 572 330 298 196 292 171 372 268 412 242 0 416 465 261 0 0 1497 746 0 0 0 1927 0 0 0 0 0 0 0	14 15 16 17 51 35 62 49 50 62 122 135 63 81 172 273 44 23 41 35 59 63 112 87 95 104 115 81 142 157 171 102 80 87 99 57 119 127 146 84 93 108 110 43 156 198 175 57 337 444 371 117 276 412 287 83 0 109 109 42 0 0 447 85 0 0 0 0 0		
			1 2 3 1 0 227 134 2 0 0 400 3 0 0 0 4 0 0 0 5 0 0 0 6 0 0 0 7 0 0 0 8 0 0 0 9 0 0 0 11 0 0 0 0	4 5 6 7 8 68 103 89 110 60 48 202 148 178 93 69 154 129 158 86 0 38 37 47 27 0 0 580 584 243 0 0 0 1875 647 0	88 45 40 71 48 132 68 59 99 68 124 64 61 122 84 240 20 25 51 35 320 175 130 201 118 730 441 253 363 211 1324 868 416 572 330 1896 298 196 292 171 0 0 372 268 412 242 0 0 416 465 261 0 0 1497 746 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	51 41 75 66 52 62 122 135 63 81 172 273 44 23 41 35 59 63 112 87 95 104 115 81 142 157 171 102 80 87 99 57 119 127 146 84 93 108 110 43 156 198 175 57 337 444 371 117 276 412 287 83 0 109 109 42 0 0 447 86 0 0 219

(Trip/Day	7	as	D	/	p	i	r	T	(
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28	1 2 3 4 5 8 7	1 0 0 0 0	2 191 0 0 0 0	3 132 165 0 0 0	99 86 233 0 0	5 106 86 202 991 0 0	6 53 40 80 195 207 0	7 60 44 86 193 216 1089						1 2 3 4 5 6 7	1 0 0 0 0	2 233 0 0 0 0	3 256 251 0 0 0	4 132 105 233 0 0	5 132 100 202 991 0 0	6 61 43 80 195 207 0	7 68 47 86 193 216 1089						
29	1 2 3 4 5	1 0 0 0	2 628 0 0 0	3 75 463 0 0	4 177 1268 157 0	5 179 1102 217 375 0								1 2 3 4 5	1 0 0 0	2 864 0 0 0	3 92 463 0 0	4 228 1268 157 0	5 221 1102 217 375 0							established the second	
30	1 2 3 4 5 6 7 8 9 10	100000000000000000000000000000000000000	2 83 0 0 0 0 0	3 87 152 0 0 0 0	4 157 90 231 0 0 0	5 302 66 70 118 0 0	5 385 82 121 242 351 0 0	7 91 73 145 192 75 123 0 0	8 173 109 185 347 142 232 412 0	9 83 80 87 103 72 103 171 283 0	10 145 118 158 188 126 183 329 530 2061			1 2 3 4 5 6 7 8 9 10	1 0 0 0 0 0 0 0 0 0 0 0	2 155 0 0 0 0 0	3 115 186 0 0 0 0	4 157 169 231 0 0 0	5 302 113 90 118 0 0	6 385 138 150 242 351 0 0	7 91 145 192 75 123 0 0	8 173 150 224 347 142 232 412 0	9 85 80 87 103 73 103 171 283	10 146 123 158 188 126 183 329 530 2061			
31	1 2 3 4 5 6 7 8 9 10 11		2 144 0 0 0 0 0 0 0	3 81 76 0 0 0 0	4 31 24 95 0 0 0	5 67 37 100 126 0 0 0	6 148 65 125 120 355 0 0 0	239 698	8 270 92 274 80 136 373 2061 0	9 683 176 140 54 113 282 1344 603 0	10 306 98 101 44 94 212 606 317 717 0	11 583 125 115 46 119 185 528 276 623 299		1 2 3 4 5 6 7 8 9 10 11	1 0 0 0 0 0 0	2 236 0 0 0 0 0 0 0	3 156 152 0 0 0 0	48 185 0 0 0 0	5 79 54 130 126 0 0 0	6 148 73 140 120 355 0 0 0	153 239 698	373 2061 0 0		54 101 212 506	276		