Table 3.2.7 Harvested Area and Production of Vegetable 1996/97 (3)

			1 abic 3.4.7	⊒	nasa	iai voicu Aiva amu i i cuucion oi		10 11011	- Premium	1/0/1	<u>2</u>	₽	nit Area 10³	Unit Arca 103 Rai, Production 103 Ton	hon 10 ³ To	e:
				Cucumber					Chilli				Baby C	Baby Corm/Sweet Corn	Corn	
\$	Area	Pr	Provincial Level	/el	Basin Level	Level	Pro	Provincial Level	la	Basin Level	Level	Pro	Provincial Level	/ei	Basin Level	evel
Basin & Province	(%)	Area	Product	Yield (kg/Rai)	Area	Product	Area	Product	Yield (kg/Rai)	Area	Product	Area	Product	Yield (kg/Rai)	Area	Product
1. Upper Chao Phraya 1.1 Nan Basin (21,460)				. :				:								
(1) Upper Nan (8,110) Nan	94	1.5	3.0	1.980	4.1	7.8	0.7	0.4	200	0.7	0.4	0.1	0.1	1,180	0.1	0.1
Uttaradit	. 82	0.5	0.7	1,410	0.1	0.2		1	1		1	1	,	•	1	1
Sub-total		1		1	1.6	3.0	1			0.7	0.4	. 1	-	1	0.1	0.1
(2) Lower Nan (13,350)			***************************************													
Uttaradit	72	0.5	0.7	1,410	0.4	0.5		' ,	' ;	1 : (1	1	1	•	*	•
Phitsanulok	88 5	7.2	11.0	1,520	6.3	9.7	1.7	1.6	8	1.5	4:	1	1	•		•
Phichit	57	8.0	4.Ľ	078,1	ე ;	9 6	7.0	1.0	0/6	ਰ ਹ	 	' u	, 0	, 177		' '
Phetchabun Nathon Saman	1,4	0.7	ų.,	066.T	?	 	1.0	C.21	055,1	† '	1.77	2.0	0. 4 0. C	2.020	7.0	. O
Sub-total		-	-		7.5	11.6			•	3.0	3.6				0.4	0.6
Total	1	***************************************			9.0	14.7		1	1	3.6	4.0			1	0.5	0.7
1.2 Yom Basin (14,760)																
Nan	9	1.5	3.0	1,980	0.1	0.2	0.7	0.4	200	0.0	0.0	0.1	0.1	1,180	0.0	0.0
Phayao	4	!	1	•	•	ï	0.4	0.5	1,130	0.2	0.2	,	,	•	1	•
Lampang	21	•	•	•	1	1	•	•	1	1	1		1	•	t	•
Phrae	2	0.2	0.3	1,760	0.2	0.3	2.5	1.8	Š	2.5	80	1	1	1	•	•
Sukho thai	200	23	4 80	2,050	53	8.4	' !	١,	' 4	,	' «	1	1	•	•	•
Phitsanulok Tr	12	7.2	11.0	1,520	6 c	E	 	0:0 -	<u></u>	7.0	2.0	1	ı	ı	f	•
Frichit	3 Y	000	* *	1 200	3 5	3.5	4	 	1 130	0.0	2 6	74.	27	1180	(~·	, 6.
Total		-	,		3.9	7.5	'		-	3.2	2.5	1	1		1.1	1.3
1.3 Wang Basin (6,740)																
Lampang	70		1	•	•	ı	' (' t	' (,	,	•	•	•	,	1
Tak	9	1			-	1	6.0	7.0	820	0.1	0.0	•	***************************************	-		F
Iodal		1								7-7	2.5		1	' 	۱ 	•
1.4 Fing Basin (21,190) Chiang Mai	77	2.7	6.0	2,220	2.1	4.6	'	i	ı	•		8.7	7.0	800	6.7	5.4
Lamphun	100	0.3	0.5	1,670	0.3	0.5	4.6	7.2	1,570	4.6	7.2	3.9	2.3	290	1	•
Tak	46	1	.1		ı	Τ.	0.9	0.7	820	9,	0.3	•	•	•		•
Kamphaeng Phet	6 4	0.9	¥.	1,200	9.0	<u>. 13</u>	4.1	1.5	1,130	1.0	1:1	4.0	7.8	1,180	' -	, 0
Total				1	3.0	6.4	-		-	6.0	8.6		-		6.8	5.6
1.5 Sakae Krang (3,240)							٠									
Kamphaeng Phet	∞ ;	6.0	1.8	1,200	0.1	0.1	1. 4.	1.5	1,130	0.1	0.1	4.7	8.7	1,180	0.6	0.7
Nakhon Sawan Ilibai Thani	4 8	1.5	19	1.290	0.5	9.0	0.2	0.1	780	0.1	0.0	2.0	0,4	2,020	5.0	o.'
Total				-	9.0	0.8			•	0.2	0.2	-		*	1.1	1.7
					ļ.											

Table 3.2.7 Harvested Area and Production of Vegetable 1996/97 (4)

							-					ä	ut Area 10 ³	Unit Area 103 Rai, Production 103 Ton	tion 10 To	u
				Cucumber					Chilli				Baby (Baby Corm/Sweet Corn	Corn	
1	Area	Prov	Provincial Level	e]	Basin	Basin Level	Pr	Provincial Level	la	Basin Level	Level	Pro	Provincial Level	vei	Basin Leve!	Leve!
Basin & Province	Kate (%)	Area	Product	Yield (kg/Rai)	Area	Product	Алеа	Product	Yield (kg/Rai)	Area	Product	Area	Product	Yield (kg/Rai)	Area	Product
1.6 Pasak Basin (10,180)	9		9,	099 #	5	ć	7.3	7.7	1 050	0.7	80		,	ŀ		•
Loci	3 6	9 6	0,7	1 000	7.7		, oc	12.5	1.530	i w	0.0	0.5	80	1.770	0.4	0.6
reconaban	7 %	0.0	0.3	620	0.2	0.1	6.7	5.0	750	; '	?	0.7	7.8	3,900	0.4	. H
Saraburi	7	1.9	2.5	1,320	1.5	1.9	0.7	9.0	800	0.5	0.5	0.7	0.8	1,050	0.5	9.0
Ayuttaya	7	9.0	1.0	1,710	0.0	0.1	0.7	1.1	1,630	0.0	0.1		-	1	•	1
Total	_	-	1		3.2	5.2	1	+	•	7.2	10.3		t		1.2	2.6
Grand Total	-	-	•	'	19.7	34.5	3	-	•	20.2	25.5	ŧ	,	1	10.7	11.8
2. Lower Chao Phraya (21,120)			,			,	•				(t	t	•	4	<
Kamphaeng Phet	7	0.0	1.8	1,200	0.1	0.1	3.6	4.6	1,270	0.3	5.0	4.4	× •	1,180	3:	9 6
Nakhon Sawan	57	,		, 0	' v	, ,	٠ ' د د	, 5	787		· c	0.7	1, ⊃	020,2	Ŧ:Ŧ	C.7
Uthai Ihani	96	C. 7) i	067,	3 8	9 6	7.0		9	1.5	2.5	· r	' 4	,	' t	' '
Chainat	00.	4.0	ς:	0001	0. C	C 6	. 0		1 530	٠ _د	. 2	- v	9 6	506		0.0
Phetchabun	٠. (0.5	ب ب د	066,4	7 6		4 F	C.21	750	7.0	† 	2 6	9 6	1,1	5 5) r
Lopburi	3 6	ე (c	7 °C	926	0.0	0.0	0.0	900	200	0.2		† C	† « Vi C	1050	2.5	4 0
Saraburi	3 5	3 6	3 6	1 810] [200	; '	2 1	}	, '	;	0.5	0.5	020	5.0	2
Ang Tong	3 5	80	10.1	1300	0.8	10	0.3	0.4	1.300	0.3	0.4	;	} '	}	,	} '
Suchamburi	8	4.	7,4	1,690	3.9	9.9	3.7	3.3	900	3.3	2.9	9.7	11.2	1,150	8.6	10.0
Ayuttaya	93	9.0	1.0	1,710	9.0	0.0	0.7	1.1	1,630	0.7	1.0	1.9	3.0	1,580	1.8	2.8
Pathum Thani	100	1.5	3.0	2,050	1.5	3.0	•		•	1	1.	0.4	0.4	1,010	0.4	0.4
Nakhon Pathom	6	3.4	5.6	1,670	3.1	5.2	0.0	1.0	1,150	0.8	0.0	4.4	5.4	1,230	4.0	2.0
Nonthaburi	100	. •	,	1	١.					1	T	1	ı	ı	,	1
Bangkok	100	2.2	2.6	1,200	2.2	5.6		1	•	ı	1	1	1	•	•	•
Samut Prakan	100	1	•		'	1	•			•	t	•	3	•	1	•
Samut Sakhon	83	2.4	2.9	1,200	20	4	1.3		1,300		4.	4.0	0.4	950	0.3	0.3
Chachoeng sao	9	1.3	œ :	1,380	0.7	0.1	0.3	0.3	910	0.0	0.0	,	,	1	' ·	١,
Kanchanaburi	10	0.0	8.0	1,450	O.S.	T:0	49.1		770	£.9	2	17.4	5.5	1,440	7.7	7.8
Grand Total	·	'	1		15.7	24.1		-		11.8	8.9				20.7	25.6
3. Kok & Ing (9,390)					÷	1										
3.1 Kok (4,940)		. 27	4	2 220	0	90	13.8	33.4	2.420	4		27	7.0	800	0	7
Chiang Mai	Q (2	i -	2 6	2,090	0.6	12	5.6	8,0	2.080	1.7	3.4	7.5	23.2	3.090	, ec	11.6
Chiang Ast					80	œ.	-	*		3.0	67	,	-	-	46	123
· t									-						2	
3.2 mg (4,430) Chiane Rai	30	1.1	2.3	2,090	0.3	0.7	3.3	6.8	2,080	1.0	2.0	7.5	23.2	3,090	2.3	7.0
Phayao	58	1	•	•	1	1	0.4	0.5	1,130	0.2	0.3	1	1	1		1
Total	-	-			0.3	0.7			1	1.2	2.3	•	1	1	2.3	7.0
Grand Total	-	•	,	1	1.2	2.4	•	r	1,	4.3	9.1	•		ş	6.9	19.3

Table 3.2.7 Harvested Area and Production of Vegetable 1996/97 (5)

Area Basin & Province Rate (%) 1. Upper Chao Phraya 1.1 Nan Basin (21,460) (1) Upper Nan (8,110) Nan Uttaradit Sub-total (2) Lower Nan (13,350) Uttaradit Phitsanulok Phitsanulok Phitsanulok Phitsanulok Sawan 17 Phetchabun Nakhon Sawan 16 Sub-total 1.2 Yom Basin (14,760) Nan	Area	Provincial Level	Dean			-	December 1 leave	- I dila		l otto	Pro	Provincial Level	Į.	Basin Level	evei
& Province (%) (%) Phraya (21,460) n (8,110) n (8,110) ok un un wawan un wawan un-total ub-total Total n (14,760)	Area	-		Basin Level	Level	Pro	VIICIAI L		Basin Level	3			1	-	
Phraya (21,460) n (8,110) n (8,110) dr. (13,350) ok un aswan ub-total nb-total nb-total nb-total nb-total nb-total nb-total n (14,760)		Product	Yield (kg/Rai)	Area	Product	Area	Product	Yield (kg/Rai)	Area	Product	Area	Product	Yield (kg/Rai)	Area	Product
n (8,110) ub-total in (13,350) ok un sawan ub-total Total n (14,760)								. •			:				
ub-total In (13,350) ok un Sawan ub-total Total n (14,760)		0.6 0.9	1,400	9.0	0.8	0.1	0.1	1,180	0.1	0.1	5.0	14.8 0.1	2,960	4.7 0.0	13.9
		ì	1	9.0	0.8	7:1			0.3	0.4	-			4.7	13.9
	_				,	- 2	V	1.200	0.9	1.1	0.1	0.1	1,980	0.0	0.1
(0		45 4.7		4.0	4.1	6.3	12.6	2,000	5.5	11.1	1.2	1.5	1,300	1.1	1.3
(0			1,080	0.1	0.1	•	•	•	•	1	, 5,	14.2	3.020	· 80	2.4
(0		1.3 1.6		0.2	0.3	, f.	2.1	1.950	0.2	0.3	0.3	0.5	1,610	0.0	0.1
(0		***************************************		4.3	4.5		1		9.9	12.5	-		1	0.8	3.9
(0				4.9	5.4	1	1	•	6.9	12.9		'	•	5.6	17.8
								;	6	4	į		090		ć
_		0.6 0.9	1,400	0.0	0.1	0.1	0.1	1,180	0.0	0.0). 4	14:0 7.7	745 1740	. e	3.2
Phayao 42				1	• (4:) · T	1,430	2	ેં	} =	 4	3.650	0.0	0.1
				0.5	0 O	•					'	; '	22,00	}	;
			1,780		7.0		• . •	•	' . '	₁	0.1	0.2	2,350	0.1	0.2
Sukho thai		1.4 I.3		0.5	90	6.3	12.6	2,000	8.0	1.5	1.2	1.5	1,300	0.1	0.2
lok				0.1	0.1	'				ı		1	1	1	1
	· .	÷.	1,480	0:0	0.1	2.7	5.7	2,100	0.4	6.0	-	1	-	-	•
Total				2.2	2.5	,	,	-	1.8	3.1		1	-	2.4	C.4
40)			,	ć	-			,		ı	5	0.4	3.650	0.1	0.3
-		1.1 1.2	1,090	ָה. בֹ	Š.	0.1	0.7	2,300	0.0	0.0	3,9	19.3	4,950	0.2	1.2
Tak 0 Total				0.9	0.0	1	1	-	0.0	0.0	ı		1	0.3	1.5
1.4 Ping Basin (21,190)					. 1							110.2	2000	31.4	840
		•	5 1,610	3.2	5.1		' ¢	1 560	, oc	, 0	7.4	4		7.4	14.8
իրսո 1		0.2 0.2		7.0	7.0	5.0 1.0	0.0	2,300	0.0	0.1	3.9	19.3		1.8	8.9
				, ,	· (*	2.7	\$ 5°	2,100	1.9	4.0	<u>'</u>			1	1
Kamphaeng Phet		0.3	1,400	4.0	3	1	2.1	1,950	0.0	0.1	0.3	0.5	1,610	0.0	0.0
rakhul Sawan Total			-	3.6	5.6	-	1	•	5.8	10.2		1		40.6	108.6
40)			1 480	6	0	2.7	5.7	2.100	0.2	0.5				1	ı
Kamphaeng Phet		רים יים		}	}	1.1	2.1	1,950	0.3	0.5	0.3	0.5		0.1	0.1
/an		1.0 1.2	2 1,240	0.3	0.4	1.3	3.3	2,610	0.4	1.1	0.4	***************************************	1,750	0.1	0.2
Total			ļ .	0.4	0.4	•	•	•	0.0	20				0.2	4,0

Table 3.2.7 Harvested Area and Production of Vegetable 1996/97 (6)

											1	5	of Area 10"	Unit Area 10' Rai, Production 10' fon	of Tor	T
	VIII			Bean				ַ	Chinese Kale				Cabbage	hmese	Cabbage	
•	Vaca	Ę	Provincial Level	vel	Basin	Basin Level	Pra	Provincial Level	75	Basin Level	cvel	Pro	Provincial Level		Basin Level	Level
Basin & Province	% gre	Area	Product	Yield (kg/Rai)	Area	Product	Area	Product	Yield (kg/Rai)	Area	Product	Area	Product	Yield (kg/Rai)	Area	Product
1.6 Pasak Basin (10,180)				į		Č	0	ć	00,	0	Č					
Loei	10	. 2	0.7	1,290	0.1	0.1	7.0	?	1,020	2.5	0:0	' t	, ,	, 000	, ,	, c
Phetchaban	2/		0.1 0.0	067,1	A 6	7:1		' 14	' 6	• °		· ·	74.7	020,0	, c	15.4
Lopburi	ਨ । -	0.1	S.C.	200	က ရ က	4.0	0.0	00 -	7,00	? u	C: 0	Ó.	14.1	74.5	t i	.
Saraburi	11	6.4	13.4	2,700	xo «	10.3); O		1,78U	n 6	0.1	1	1	ı	ı	ı
Ayuttaya	7	9.0	1.4	2,200	0.0	O.I.	50	0.7	2,410	0.0	0.0	-	-	-	- 04	- 577
Total	-	'		•	5.3	12.0	•	•	à	6.0	C.1	'	1	,	0.5	5,77
Grand Total	7	,	1	1	17.1	26.9	'	•		16.2	29.5	'	1	•	\$4.9	150.0
2. Lower Chao Phraya (21,120)					(,	•	ţ		(
Kamphaeng Phet		03	0.4	1,480	0.0	0.0	77	2.7	2,100	70.0	4. 6	' ¢	' t	,	' ¢	' «
Nakhon Sawan	57		' •		' (• •	T.;	2.1	1,950	9 Y	1.2	E 0) t	1,610	0.7	n 6
Uthai Thani	34	· .	1.2	1,240	E 0	4.0	E 8	E 6	2,610	⊃. ¢		4.0	0.7	0C/,I	: :	0.2
Chainat	100	50	4	200	c:	4.0	7.0	0.2 0.2	3	7.0	7.0	' <u>(</u>	' ;	' «	* ,	• •
Phetchabun	m		1.6	1,230	0.0	0.0	0.2	0.3	1,620	0.0	0.0	4 .8	14.1	2,940	0.1	0.4
Lopburi	50		0.8	820	0.5	0.4	9.0	0.5	086	0.3	0.3		•	•	1	•
Saraburi	23	4.9	13.4	2,700	1.1	3.1	0.7	1.3	1,780	0.2	0.3	•	•	•	•	1
Singburi	81	0.4	0.4	1,210	4.0	7.0	0.1	0.1	1,220	0.1	0.1	1	1		•	,
Ang Tong	92	-	1.3	1,200	1.1	1.3	0,4	0.9	2,080	0.4	6.0		1		t	4
Suphanburi	88	6.5	8.2	1,250	5.8	7.3	3.2	4.3	1,320	2.8	3.8	1.2	1.8	1,430	1.1	1.6
Ayuttaya	8	9.0	1.4	2,200	9.0	1.3	0.3	0.7	2,410	0.3	0.7	•	•	1		,
Pathum Thani	81	2.9	3.8	1,290	2.9	3.8	8.5	21.9	2,570	8.5	21.9	•	•	,	•	1
Nakhon Pathom	92	4.4	7.1	1,610	4.0	6.5	4.0	8.9	1,710	3.7	6.3	3.3	5.2	1,580	3.0	4.8
Nonthaburi	100	• •	•	t		•	2.1	4.2	1,930	2.1	4.2	2.0	2.9	1,450	2.0	2.9
Bangkok	100		•	b	•	1	0.8	1.1	1,400	8.0	1.1	•	•	•	ŀ	•
Samut Prakan	100		•	r	•	•	0.2	0.3	1,130	0.2	0.3	1	•	•	ı	•
Samut Sakhon	83	3.2	4.2	1,300	2.7	3.5	8.9	17.8	2,000	7.4	14.8	1	•	•	1	•
Chachoeng sao	9	0.0	1.4	1,440	. 0.1	0.1	3.6	1.7	2,150	0.2	0.5	1	ı	•	•	1
Kanchanaburi	10	3.0	2.4	800	0.3	0.2	1.0	1.1	1,110	0.1	0.1	0.7	0.5	730	0.1	0.1
Grand Total	_		-	•	20.3	28.8	'		'	28.5	58.1	1	,	1	9.9	10.3
3. Kok & Ing (9,390)																
3.1 Kok (4,940)																
Chiang Mai	10			1,610	0.4	0.7	7.8	3.6	1,300	0.3	4.0	40.8	110.2	2,700	4.1	11.0
Chiang Rai	50	2.0	2.5		1.0	1.3	7 .0	0.7	1,50	0.2	0.4	7.5	23.2	3,090	3.8	11.6
Total	-	'			1.4	1.9	'	-		0.5	0.7	•	F	t.	7.8	22.6
3.2 Ing (4,450)			•	- !				. 1	•	•		1	;		1	
Chiang Rai	<u> </u>	2.0	2.5	1,270	9.0	8.0	4.0	0.7	1,770	0.1	0.2	7.5	23.2	3,090	23	7.0
Phayao	28		-		- 100	- 0	1.4	1.7	1,230	0.8	0.1	4.3	7.5	1,740	2.5	4.4
Total	<u>'</u>			<u>'</u>	e:	S.C.		1		ξij.	7.7	•	•		4	11.3
Grand Total					20	2.7				1.4	1.9				12.0	33.9

Table 3.238 Crop Budget of Agricultural Products for Chao Phraya Upper West Delta in Financial Terms (Present Condition) (1).

Item Unit		Parid	_	Field Crops	roos				J	Other Field Crops	d Crops				Vege	Vegetables
	ł	Day Canan		Chaptering	out	Misnohean	hean	Sovbean	can	Sweet Corn	Ę	Water	Water Melon	Average	Vege	Vegetables
		Amount Value		Amount Value	Value	Amout	į,	Amount Value	i i	Amount Value	. ,	Amount Value	Value	Amount Value	Amount Value	Value
Value of Output (1) Yield Kg/rai (2) Unit Price Bahl/kg (3) Production Value Bahl/rai Input Costs Bahl/rai (1) Seeds Bahl/rai (2) Fertilizer Bahl/rai (3) Agro-chemicals Bahl/rai (4) Land Preparation* Bahl/rai (5) Labour Bahl/rai (6) Others Bahl/rai	1 7	753 4.5 23kg 46kg	3,389 3,389 159 228 173 587 87	9,470 0.475 45kg 45kg	4,498 4,498 536 179 95 450 2,942	160 8.0 5.8g 10kg	1,280 1,280 1,280 83 83 84 76 167 636 76	200 11.7 24kg 6kg 6kg	2,340 2,340 2,40 30 84 220 605 35	1,950 4.8 3kg 48kg	9,360 9,360 120 300 240 250 780 190 190	2,430 6.0 0.15kg 231kg 19.1md	14,580 14,580 1,377 1,313 1,307 221 2,100 77	6,890 6,890 455 423 423 427 1,030 1,030 2,645	1,300 4.0 0 0 3 3kg 3 112kg 5 3kg	5,200 5,200 210 699 700 500 2,000 300 4,409
Total Bahurai			157		777		195		1,126		7,480		8,185	4,245	5	791

Table 3.4.8. Crop Budget of Agricultural Products for Chao Phraya Upper West Delta in Financial Terms (Future Without Project Case) (2).1)

		Paddy	1	Field Crops	sdor				_	Other Field Crops	d Crops				Vege	Vegetables
į	1	Den Cancon	, 2	Sugarcane	ane	Munobean	can	Sovbeans	ans	Sweet Corn	Som	Water	Water Melon	Average	Vege	Vegetables
Item		Amount Value		Amount Value	!	Amout	ا يو ا	Amount Value		Amount Value		Amount	Amount Value	Amount Value	Amount Value	Value
Value of Output																
(1) Vield	ke/rai	753		9,470		160		58		1,950		2,430	_		1,300	
. 2				0.935		10.4		13.6		5.3		7.4			2.1	
(2) Unit Price	Danykg		63.6	300	7.007		1 664	! . !	2.720		10.335		17.982	8,17.	2	6,630
(3) Production Value	Haht/rai		3,163		7.907		1,664		2,720		10,335		17,982	8,175	2	6,630
Lutai	Delington															
Input Costs	•		1	:	77.	243	87	24kg	252	3ke	126		1,446	47		221
(1) Seeds	Baht/rai	7.3Kg	1 6	767	90	30 PE	5 5	e de	5	4860	315	231kg	1.379	444	4 112kg	734
(2) Fertilizer	Baht/rai		3 ;	e Section	8 5	S C	8 8	9	8	0	252		1.372	448		735
(3) Agro-chemicals	Bahlyrai		2 5	-	ŞĘ	÷	37.		3		263		232	22	9	525
(4) Land Preparation	Baht/rai		2	26.0	2,000	S Omd	9	5 5md	Š	7.1md	819	19.1md	2,205	1,082	2 18.2md	2,100
(5) Labour	Bantin	7.7mg	, , ,	niio.v.	76	o o o	8 8		37		200		81	01	0	315
(6) Others	Baht/rai		25.5	:	4.389		1,141		1,275		1,975		6,715	2,778	. 8	4,630
lotal	TOURNE THE						1				0.00		11 267	4 307	7	2,000
Net Value	Baht/rai		907		3,518		523		4		2000		11,600	, 260		2224

Take 328 Crop Budget of Agricultural Products for Chao Phraya Upper West Delta in Financial Terms (Future With Project Case) ((3).5)

		Paddy		Field Crops	sdo				3	Other Field Crops	d Crops				Vegetables	bles
Item	, Tinit	Dry Season		Sugarcane	me	Munebean	bean	Sovbeans	ans	Sweet Corn	Com	Water Melon	Melon	Average	Vegetables	bles
	•	Amount Value Amount Valu	ue Am	ount \	اه	Amout Value	Value	Amount Value Amount Value Amount Value	Value 1	Amount	Value	Amount		Amount Value	Amount Value	Value
Value of Output															į	
(1) Yield	kg/rai	850	10	10,580		200		300		2,300		2,780	•		1,490	
(2) Unit Price	Baht/ko	4.2	_	0.835		10.4		13.6		5.3		7.4			5.1	
(2) Droduction Value]	3 570		8 834		2.080		4.080		12,190		20,572	9,731		7,599
Total		, w	3,570		8,834		2,080		4,080		12,190	-	20,572	9,731		7,599
Input Costs									,							
(1) Seeds	Baht/rai 25kg		175		550	6kg	96	10kg	150	5kg	200	0.16kg	1,425	468		280
(1) Sectilizer	Raht/rai			35ko	218	10kg	49	15kg	114	90kg	562	260kg	1,407	533	120kg	748
(2) A gro-chemicals	Raht/rai			٥	82		40	0	80)	250		1,297	417		735
(4) Land Prenaration*		7	490		450		155		170		260		210	199		525
(5) I shour	Baht/rai 9.4md		1.032 27.8md			6.4md	705	6.1md		7.8md	855	20.6md	2,230	1,115 19	19.4md	2,130
(6) Others	Raht/rai		125				47		20		200		78	94		315
Total	Baht/rai	2,	2,242		4,439		1,092		1,233		2,327		6,647	2,826		4,733
Net Value	Baht/rai	1,	1,328		4,395		886		2,847		9,863		13,925	6,905		2,866
Minimum and the management of the second sec	- Company	nodoom av or	noiteri	includi	na fire cost	- Joet										

Note: 1) * indicates dependence on mechanization, including fuel cost.

2) Vegetables include cucumber, long beans, etc. Source: Farm household survey.

Table 3.2.9. Crop Budget of Agricultural Products for Chao Phraya Upper East Delta in Financial Terms (Present Condition) (1(1)

		5		7772	3				ľ	Other Field Crops	4 Crops				Vegetables	ples
-	,	raddy		ricin Ciobs	edo.				İ	Connect Corn	E 0	Water Melon	felon	Average	Vegetables	soldi
Item	Cui:	Dry Season	BSON	Sugarcane	Cane	Mungbean	Dean	SOVDCALL	Ì	SWC	1		٠.	A Takes	4	Value
	, ,	Amount Value	i	Amount Value	!	Amout Value		Amount	t Value A	Amount Value	1.	Amount Value		Amount value	Anionia	and a
Value of Output	Portrai	00%		10.020		130		200		1,950		2,430			1,300	
(1) Head		3 4		\$2F0		8.0		11.7		4.8						
(2) Unit Price (3) Production Value	Baht/rai	;	3,600	2	4,760	}	1,040		2,340		9,360		14,580	6,830		5,200
Total	Baht/rai		3,600		4,760		1,040		2,340		3,360		14,380	nco'o		277
Input Costs									;	i	ç		1000	058		210
(1) Seeds	Haht/rai	20kg	140		260	4kg	\$	24kg	240	3,0	27	U.J.SKg	1,0,1	917	11274	009
(2) Fertilizer	Haht/rai	32kg	160	20kg	125	7kg	34	6kg	8	48kg	8	Z31Kg	500.	417	•	5
(2) A min observious	Rohr/rai		117	,	75		23		*		240)0¢;1	1 6		
(5) Agro-cucumeans	Tarketon.		454	•	540		160		220		220		221	SLS		200
(4) Land Preparation	Danvisa		2	76.42.4	2007	5 Smd	640	5.5md	605	7.1md	780	19.1md	2,100	1,031	18.2md	2,000
(5) Labour	Baht/rai	S.J.M.d	אָל אַל	20.4mg	è e		? ?		*		190		77	82		9
(6) Others	Baht/rai		2		₹		3 ;		3 .		000		A 205	2,609	_	4.409
Total	Baht/rai		1,871		4,277		<u>\$</u>	į	1,214							ŀ
Lota			1300		787		8		1.126		7,480		8,185	4,221		197
Net Value	Hanl/rai		1,723		ì											

Table 34.9 Crop Budget of Agricultural Products for Chao Phraya Upper East Delta in Financial Terms (Future Without Project Case) (2)

		4	Exold	Ciald Crone				0	Other Field Crops	d Crops			!		Vegetables	ខ
ı	. !	raddy	LIGIT	200			,			إ	Water Malon	15	Average		Vecetables	8
Trem.	Unit	Dry Season	Suga	Sugarcane	Mungbean	bean	Soybean	Ì	Sweet Corn	- 1	Water Mic	Ĺ	2	:	A month Value	و ا
	•	Amount Value Amount Value	e Amount	Value	Amout	Value	Amount Value	Value A	Amount Value	- 1	Amount Value	- 1	Amount value	1	Ornii vo	
Value of Output					1		6		1 050		0.00			-	8	
(1) Yield	Kg/rai	900	10,020		130		207		000						1.	
	The Later	4.5	0.835		10.4		13.6		5.3							
(2) Unit Price	Danveg	7.				1357		2.720		10.335	H	285	œ̂	097	_	96.90
(3) Production Value	Baht/rai	3,360	2 :	100,0		25.0		2 720		10.335	1	17,982	š	8,097	•	6,630
Total	Baht/rai		- -	9,30		1,324										
Input Costs									1	. ;						331
Carron Indian	To Later	•		588	4kp	19	24kg	252	3kg	120		0640	•			1
(1) Seeds	Dancital	T SXO7		3 5	Ę	χ,	, old	33	48kg	315	231kg	379	•		112kg	734
(2) Fertilizer	Baht/rai		IDS ZUKE	i i	4) ()	3 8	9	ä		252		372	•	435		735
(3) Agro-chemicals	Baht/rai	7	123	2 ;		2 9		3 5		263		232		224		525
(4) Land Preparation*	Baht/rai	4	477			108		3 (7	3 5		300	-		18.2md	2100
Though (2)	Haht/rai	8.5md 9	977 26.4md	2,953	5.8md	672	5.5md	S	- Tag	9	19.1mu	200	î			214
manuf (c)			2			26		3		28	:	8		Š		3
(6) Others	Bantrai			7.00	٠,	6		1 275		1,975	•	6,715	5,	2,742	•	4,630
Total	Haht/rai	1,900		4,774								100	4	2200	Ì	5
Mas Volum	Raht/rai	1.394	*	3,975		357		1,445		8,360	-	1,267	֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓	3		3
ואבו אשותב	Dallyton															
			and the Property of the Party o	4	,,,,,											

Table 3.29 Crop Budget of Agricultural Products for Chao Phraya Upper East Delta in Financial Terms (Future With Project Case) ((3).)

		Paddy	ly	Field Crops	rops					Other Field Crops	d Crops					Vegetables	bles
Item	Unit	Dry Season	ason	Sugarcane	ane	Mungbean	bean	Soybean	san	Sweet Corn	Corn	Water Melon	delon	Average	<u>s</u> e	Vegetables	bles
		Amount Value Amount Value Amout Value	Value	Amount	Value	Amout	1 1	Amount Value	. 3	Amount	Value	Amount Value Amount Value	il	Amount Value	il	Amount Value	Value
Value of Output												i					
(1) Yield	kg/rai 850	820		10,580		200		300		2,300		2,780				1,490	
(2) Unit Price	Baht/kg	4.2		0.835	•	10.4		13.6		5.3		7.4				5.1	
(3) Production Value Baht/rai	Baht/rai		3.570		8.834		2,080		4,080		12,190		20,572		9,731		7,599
Total	Baht/rai		3,570		8,834		2,080		4,080		12,190		20,572		9,731		7,599
Input Costs																	
(1) Seeds	Baht/rai 25kg	25kg	175		550	6kg	96	10kg	150	5kg	200		1,425		468	4kg	280
(2) Fertilizer	Baht/rai	52kg	260	260 35kg	218	10kg	49	15kg	114	90kg	. 562		1,407		533	120kg	748
(3) Apro-chemicals)	160)	85)	40) .	80		250		1,297		417		735
(4) Land Preparation* Baht/rai	' Baht/rai		490		450		155		170		260		210		199		525
(5) Labour	Baht/rai 9.4md	9.4md	1,030	1,030 27.7md	3,042	6.3md	693	5.9md	644	7.8md	828	20.6md	2,224		1,105 1	19.2md	2,112
(6) Others	Baht/rai		125		80		47		20		200		78		94		315
Total	Baht/rai		2,240		4,425		1,080		1,208		2,330		6,641		2,816		4,715
Net Value	Baht/rai		1,330		4,409		1,000		2,872		9,860		13,931		6,915		2,884
	4		to mode	ion inclu	ding fro	fire acet											

Note: 1) * indicates dependence on mechanization, including fuel cost.

2) Vegetables include cucumber, long beans, etc.

Table 3.4.10 Crop Budget of Agricultural Products for Chao Phraya Lower West Delta in Financial Terms (Present Condition) ((1):)

		Paddy	è	Field Crops	rops				ľ	Other Field Crops	d Crops				İ	Vegetables	ples
]	Tinit	Dry Season	nose	Sugarcane	Cane	Munebean	bean	Sovbean	ran.	Sweet Corn	Corn	Water Melon	Melon	Average		Vegetables	pies
IIGII	5	Amount Value		Amount Value	Value	Amout	2	Amount	Value	Amount Value Amount Value		Amount Value	Value	Amount Value		Amount Value	Value
Value of Output (1) Yield (2) Unit Price (3) Production Value	kg/rai Baht/kg Baht/rai	753	3,389	9,470	4,498	160	1,280	200	2,340 2,340	1,950	9,360	2,430 6.0	14,580 14,580		6,890 6,890	1,300	5,200
1 Dougles (1) Seeds (2) Sentilizer (3) Agro-chemicals (4) Land Preparation* (5) Labour (6) Others Total	Baht/rai Baht/rai Baht/rai Baht/rai Baht/rai Baht/rai	23kg 46kg 9.1md	159 228 173 587 887 87 87 87	45kg 26.8md	536 179 95 450 2,942 72 4,274	5kg 10kg 5.8md	83 47 76 167 636 76 1,085	24kg 6kg 5.5md	240 30 84 220 220 605 605 1,214	3kg 48kg 7.1md	120 300 240 250 780 190 1,880	0.15kg 231kg 19.1md	1,377 1,313 1,307 221 2,100 77 6,395		423 423 427 215 1,030 95 2,645 4,245	3кg 112kg 18.2md	210 699 700 2,000 2,000 4,409
Net Value	Baht/ra		1,157		224		2		1,120		7,405		3,15				1

Table 6.2.10 Crop Budget of Agricultural Products for Chao Phraya Lower West Delta in Financial Terms (Future Without Project Case) (2):

		Paddy	2	Field Crops	Crops					Other Field Crops	d Crops				Veget	Vegetables
		6		Currente		Munchean	head	Sovbeans	Sans	Sweet Com	Com	Water Melon	Melon	Average	Vegetables	ables
E9II	5	Amount Value	Value	5	Value	Amout	يوا	Amount Value Amount Value	Value ,	Amount		Amount Value	Value	Amount Value	Amount Value	Value
Value of Output (1) Yield	kg/rai	753		9,470		160		200		1,950		2,430			1,300	
(2) Unit Price (3) Production Value Total	Baht/kg Baht/rai Baht/rai	7	3,163 3,163	0.838	7,936	cor	1,680	i	2,740		10,530 10,530		17,982 17,982	8,233	- 1	6,760
Input Costs		1			5	1	\$	244	25.2	340	126	0.15kg	1,446	47		221
(1) Seeds	Baht/rai	23kg	174	ASka	28	3Kg 10ko	è 9	Ske 6ke	32	48kg	315	231kg	1,379	444	4 112kg	734
(2) Fertilizer	Daht/rai		170	S	9	0	2	D	88		252		1,372	44	జ	735
(3) Agro-enemicals	Daht/rai		200		473		176		231		263		232	22		525
Homesedal J puer (4)	Dobe/roi	0.170	0.74	26 Rmd	2 980	5.8md	999	5.5md	635	7.1md	819	19.1md	2,205	1,08	2 18.2md	2,100
inoger (c)	Dahalma		100		36		8		37		200		8	10		315
(b) Ulners	Baht/rai		2.256	:	4.389		1,141		1,275		1,975		6,715	2,778	88	4,630
Mes Volue	Paht/rai		206		3.547		539		1,465		8,555		11,267	5,455	S	2,130
ואכו אשותה				1												

Table 3.2/10. Crop Budget of Agricultural Products for Chao Phraya Lower West Delta in Financial Terms (Future With Project Case) ((3))

		Paddv	2	Field Crops	rops				0	Other Field Crops	d Crops				Vegetables	bles
Item	Tinit	Dry Cescon		Sugarcane	'ane'	Mimohean	near,	Sovbeans	ans	Sweet Corn	Corm	Water Melon	Melon	Average	Vegetables	bles
TICHIII.		Amount Value Amount Value	Value	Amount	1 1	Amout	Value 1	Amout Value Amount Value Amount Value	Value ∤	mount		Amount Value		Amount Value	Amount Value	Value
Value of Output												i i			,	
(1) Yield	kg/rai			10,580		200	•	300		2,300		2,780			1,470	
(2) Unit Price	Baht/kg	4.2		0.838		10.5	1	13.7	•		0,0	† .	00 530	0.901		0727
(3) Production Value	Baht/rai Raht/rai		3,570		8,866		2,100 2,100		4,110 4,110		12,420 12,420		20,572 20,572	9,801		7,748
Iront Coets																
(1) Seeds	Raht/rai 25ko	25kg	175		550	6kg	96	10kg	150	5kg	200	0.16kg		468		280
(1) Sectilizar	Raht/rai	52kg	260	260 35kg	218	10kg	49	15kg	114	90kg	562	260kg		533	120kg	748
(2) Agro-chemicals	Raht/rai		160	0	85		40)	80)	250		1,297	417		735
(A) I and Prenaration*	٠.		490		450		155		170		260			199		525
(5) Lahour		9.4md	1.032	1.032 27.8md	3.056	6.4md	705	6.1md	699	7.8md	855	855 20.6md	2,230	1,115	19.4md	2,130
(6) Others	Raht/rai		125		80				20		200		78	94		315
Total	Baht/rai		2,242		4,439		1,092		1,233		2,327		6,647	2,826		4,733
Net Value	Baht/rai		1,328		4,427		1,008		2,877		10,093		13,925	6,975		3,015
1200 land a reference and some and some land and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon	1	100000	Louiss to	buloui ac	ing fire	- Joet										

Table 3.2.11 Crop Budget of Agricultural Products for Chao Phraya Lower East Delta in Financial Terms (Present Condition) :(1):

		Paddy	dy.	Field Crops	Crops			-)	Other Field Crops	d Crops					Vegetables	ples
Item	Unit	Dry Season	ason	Sugarcane	cane	Mungbean	bean	Soybean	ean	Sweet Com	Sm	Water Melon	velon	Average	25	Vegetables	bles
		Amount Value	Value	Amount Value	: 1	Amout	Value	Amount Value		Amount Value	Value	Amount Value	Value	Amount Value	Value	Amount Value	Value
Value of Output																1	
(1) Yield	kg/rai	800		10,020		130		50		1,950		2,430				1,300	
(2) Unit Price	Baht/kg			0.475		8.0		11.7		8.4		6.0				4.0	
(3) Production Value	Babt/rai		3,600		4,760		1,040		2,340		9,360		14,580		6,830		5,200
Total	Baht/ra		3,600		4,760		1,040		2,340		9,360		14,580		6,830		5,200
Input Costs																	
(1) Seeds	Baht/rai	-	140		260	4kg	\$	24kg	240	3kg	120	0.15kg	1,377		420	3kg	210
(2) Fertilizer	Baht/ra	32kg	160	20kg	125	7kg	8	6,6	39	48kg	300	231kg	1,313		419		669
(3) Aero-chemicals	Baht/rai		117		75		22	1	84	,	240		1,307		414		30
(4) I and Prenaration*	Baht/rai		454		240	-	160		220		250		221		213		200
(5) Labour	Baht/rai	8.5md	930	26.4md	2,907	5.8md	640	5.5md	605	7.1md	780	19.1md	2,100		1,031	18.2md	2,000
(6) Others	Baht/rai		2		2		25		35		198		11		82		300
Total	Baht/rai		1,871		4,277		948		1,214		1,880		6,395		2,609		4,409
Net Value	Baht/rai		1,729		483		35		1,126		7,480		8,185		4,221		791

Table 3.2.11 Crop Budget of Agricultural Products for Chao Phraya Lower East Delta in Financial Terms (Future Without Project Case) (2) 1)

		Paddy	Į.	Field Crops	Crops				_	Other Field Crops	ld Crops				Vegetables	aples
Item	Chiit	Dry Season	ason	Sugarcane	Cane	Mungbean	bean	Soybean	ean	Sweet	Sweet Corn	Water Melon	Melon	Average	Vegetables	ables
		Amount Value		Amount Value	Value		Value	Amout Value Amount Value	Valuc	Amount Value	Value	Amount Value	Value	Amount Value	Amount Value	Value
Value of Output															;	
(1) Yield	kg/rai			10,020		130		200		1,950		2,430	:		1,300	
(2) Unit Price	Baht/kg	4.2		0.838		10.5		13.7		5.4		7.4				
(3) Production Value	Baht/rai		3.360		8,397		1,365		2,740		10,530		17,982	8,154		6,760
Total	Baht/rai		3,360		8,397		1,365		2,740		10,530		17,982	8,154		6,760
Input Costs																
(1) Seeds	Baht/rai	20kg	147		288	4kg	67	24kg	252	3kg	126	0.15kg	1,446	473		221
(2) Fertilizer	Baht/rai	32kg	168	20kg	131	7kg	36	6kg	32	48kg	315	231kg	1,379	441	112kg	734
(3) Apro-chemicals	Baht/rai		123	•	2		56)	88		252		1,372	435		735
(4) I and Prenaration*	Baht/rai		477		293		168		231		263		232	224		525
(S) Labour	Bahl/rai	8.5md	217	26.4md	2,953	5.8md	672	5.5md	635	7.1md	819	19.1md	2,205	1,083	18.2md	2,100
(6) Others	Baht/rai		74	74	74		56		37		200		81	98		315
Total	Baht/rai		1,966	: .	4,392		995	٠	1,275		1,975		6,715	2,742		4,630
Net Value	Baht/rai		1,394		4,005		370		1,465		8,555		11,267	5,412		2,130

Table 32.211 Crop Budget of Agricultural Products for Chao Phraya Lower East Delta in Financial Terms (Future With Project Case) ((3))

		Paddy	ldy	Field Crops	Crops				0	Other Field Crops	d Crops				\ 	Vegetables	8
Item	Unit	Dry Season	eason	Sugarcane	cane	Mungbean	bean	Soybean	an	Sweet Corn	Corm	Water Melon	[elon	Average	^	Vegetables	8
		Amount	Value	Amount Value Amount Value	Value	Amout	Value	Amout Value Amount Value Amount Value Amount Value	Value 1	4rmount	Value ,	Amount V		Amount Value		Amount Value	lue
Value of Output																4	
(1) Yield	kg/rai	820		10,580		200		300		2,300		2,780			1,490	S ;	
(2) Unit Price	Baht/kg	4.2		0.838		10.5		13.7		5.4		7.4				5.2	
(3) Production Value Baht/rai	Baht/rai		3.570		8.866		2,100		4,110		12,420	. 4	20,572	3,6	9,801	7	7,748
Total	Baht/rai	· · · · · · · · · · · · · · · · · · ·	3,570		8,866		2,100		4,110		12,420	**	20,572	3,6	301	7	,748
Innut Costs																	
(1) Seeds	Baht/rai 25kg	25kg	175		550	6kg	96	10kg	150	5kg		0.16kg	1,425	7			280
(2) Fertilizer	Baht/rai 52kg	52kg	260	260 35kg	218	10kg	49	15kg	114	90kg	562	260kg	1,407	47	33 120kg		748
(3) Apro-chemicals	Baht/rai	6 1	160		85)	40		80) ·	250		1,297		417		735
(4) I and Prenaration* Baht/rai	* Baht/rai		490		450		155		170		260		210		66]		525
(5) Labour	Baht/rai	Baht/rai 9.4md	1.030	1.030 27.7md	3,042	6.3md	693	5.9md	644	7.8md	828	20.6md	2,224	<u>-</u>	1,105 19.2md		,112
(6) Others	Baht/rai		125		8		47		20		200		78		94		315
Total	Baht/rai		2,240		4,425		1,080		1,208		2,330		6,641	2,8	2,816	4	,715
Net Value	Baht/rai		1,330		4,441		1,020		2,902		10,090	5-4	13,931	6,9	6,985	3	3,033
A TOTAL OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PAR	1	- 2	وسيسوطوه	to all all and the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the	ding fine	1000											

Table 32.12. Crop Budget of Agricultural Products for Whole Chao Phraya Detta in Financial Terms (Present Conditions) (1(1))

		Padde	2	Field Crops	Crops					Other Field Crops	d Crops				Vegetables	ples
	:	1		3		Minahean	- uear	Sovbean	us a	Sweet Corn	Sora	Water Melon	Melon	Average	Vegetables	ples
Item	5	Amount Valu	Value	Amount Value Amount Value	Value	Amout	2	Amount Value		Amount Value	i , i	Amount	Value	Amount Value	Amount Value	Value
Value of Output (1) Yield (2) Unit Price (3) Production Value Total	kg/rai Baht/kg Baht/rai Baht/rai	4.5	3,497	9,745	4,629 4,629	145 8.0	1,160	200	2,340 2,340	1,950	9,360 9,360	2,430	14,580 14,580	0,860 0,860	1,300	5,200
Input Costs (1) Seeds (2) Fertilizer (3) Agro-chemicals (4) Land Preparation* (5) Labour (6) Others Total	Baht/rai Baht/rai Baht/rai Baht/rai Baht/rai Baht/rai	22kg 39kg 8.8md	150 145 145 521 964 79 79 79 7444	33kg 26.6md	548 152 85 495 2,925 71 4,276	5kg 9kg 5.8md	74 41 51 164 638 51 51 1.019	24kg 6kg 5.5md	240 116 92 220 220 155 380 45	3kg 48kg 7.1md	120 300 240 250 780 1,880	0.15kg 231kg 19.1md	1,377 1,313 1,307 221 2,100 77 6,395 8,185	453 421 421 214 1,031 88 2,628 4,232	3 3kg 11 112kg 14 4 4 18.2md 8	210 699 700 500 2,000 300 4,409

Table 3.2.12 Crop Budget of Agricultural Products for Whole Chao Phraya Delta in Financial Terms (Future Without Project Case) (2)

		Paddy	.≥	Field Crops	Sdor					Other Field Crops	d Crops					Vegetables	ples
	111	Constant	1000	Sumancante	4465	Munohean	hean	Sovbean	an	Sweet Corn	Corn	Water Melon	lon	Average	İ	Vegetables	ples
пеш		Amount Value		Amount Value	Value	Amout Value	7 1	Amount Value	Value ,	Amount Value		Amount Value	-	Amount Value	٦,	Amount Value	alne
Value of Output (1) Yield	kg/rai	777		9,745		145		200	:	1,950		2,430				1,300	-
(2) Unit Price (3) Production Value	Baht/kg Baht/rai Baht/rai		3,263	0.837	8,157	10.4	1,508	ren .	2,740	.	10,530		17,982 17,982	တ် တိ	8,190 - 8,190		6,630
100																	
Input Costs	1		171		476	Sko	7.7	24kg	252	3kg	126		1,446			3kg	221
(1) Seeds	Baht/rai	39kg	199	33kg	9	8. 8. 8.	43	6, 8,	32	48kg	315	231kg	1,379		442 1	12kg	734
(2) Asm-chemicals	Haht/rai		147		8	•	53	,	88		252		1,372		441		735
(a) ragio Circumonion*	Poht/rai		514		520		172		231		263		232	-			676
(*) Latte Freparation	Haht/rai	S. Amd	1001	26.6md	2.971	5.8md	670	5.5md		7.1md	819	19.1md	2,205	-		8.2md	2,100
moner (c)	Dobt/res		8		75		S		37		200		83		8		313
(o) Omers	Baht/rai		2.114		4,392		1,068		1,275		1,975	1	6,715	2,	32		4,630
100	0.1		1 140		3.765		84		1.465		8,555	-	11,267	κ'n	5,432		2,000
Net Value	Banira		1,147		3,1												

Table 3.2.12 Crop Budget of Agricultural Products for Whole Chao Phraya Delta in Financial Terms (Future With Project Case) ((3):

		Paddy		Field Crops	rops					Other Field Crops	d Crops				Vegetables	sples
Ifem	Unit	Dry Season	nose	Suparcane	ane	Mungbean	bean	Scybean	an	Sweet Corn	Com	Water Melon	Melon	Average	Vegetables	ables
	,	Amount Value Amount Value	Value ,	Amount		Amout	Value 1	Amout Value Amount Value		Amount Value	Value	Amount Value	Value	Amount Value	Amount Value	Value
Value of Output										: .						
(1) Yield	kø/rai 850	850		10.580		200		300		2,300		2,780			1,490	
(2) Unit Price	Raht/ko	4.2		0.837		10.4		13.7		5.4		7.4			5.1	
(2) Production Value			3.570)))	8.855		2.080		4,110		12,420		20,572	9,79	5	7,599
Total			3,570		8,855		2,080		4,110		12,420		20,572	9,796	5	7,599
Input Costs																
(1) Seeds	Baht/rai 25ko	25ko	175		550	6kg	96	10kg	150	5kg	200	0.16kg	1,425	46		280
(1) Fortilizer	Doht/rai	5.7kg		3500	218	10kg	40	15kg	116	90kg	562	260kg	1,407	533	3 120kg	748
(2) Feitilizei	Dalit/Jai			SAC.	30	Q -	, ć	D	S	0	250	0	1 207	41		735
(3) Agro-chemicals	Dant/rai		OOT		6		2		4 (1,00
(4) Land Preparation* Baht/rai	. Baht/rai		490		450		155		170		260		210	67		27.5
(5) Labour	Baht/rai 9.4md	9.4md	1.032	1,032 27.8md	3,049	6.4md	669	6.0md	155	7.8md	857	20.6md	2,227	1,110	0 19.3md	2,121
(6) Others	Baht/rai		125		80		47		380		200		78	94	~ t	315
Total	Baht/rai		2,242		4,432		1,086		45		2,329		6,644	2,821	_	4,724
Net Value	Baht/rai		1,328		4,423		994		4,065		10,091		13,928	6,975	5	2,875

Note: 1) * indicates dependence on mechanization, including fuel cost.

2) Vegetables include cucumber, long beans, etc.

Table 6.243 Crop Budget of Agricultural Products for Phisanulok Irrigation Project nd DEDP Pumping Scheme in Financial Terms (Present Condition) (1(t))

		Paddy	2	Field Crops	Saor					Other Field Crops	d Crops					Vegetables	ples
				3		Munches	200	Souhean	420	Sweet Com	 8	Water Melon	Melon	Average	<u>ş</u>	Vegetables	ples
Item	5	Amount Value		Amount Value		Amout	اوا	۱Ę۱		Amount Value	4 . 4	Amount Value	Value	Amount Value	Value	Amount Value	Value
Value of Output (1) Yield (2) Unit Price	kg/rai Baht/kg	765	2 443	9,608	4 564	153	1.224	200	2.340	1,950	9,360	2,430	14,580		6,876	1,300	5,200
(3) Production value Fotal	Baht/rai		3,443		4,564		1,224		2,340		9,360		14,580		6,876		5,200
Input Costs	1		7.5		S	Ş	, a	24kg	240	380	120		1,377		454		210
(1) Seeds	Bahl/rai	24Kg	17		7 7	20 to	4	e P	8	48kg	300	231kg	1,313		422	112kg	669
(2) remuzer	Dany an		177	77.V	3 8	9			*	•	240		1,307		424		Š
(3) Agro-chemicals	Danyra:		Ĉ.		3.5		16.5		220	-	250		221		214		200
(4) Land Preparation	Dansy Tar		2 5	J. Tand	2 033	Sand	637	5 Smd	605	7.1md	780	19.1md	2,100		1,031	18.2md	2,000
(5) Labour	Dant/Fau	DIII ()	9 01		56	-	×		35		190		77		46		300
(6) Others	Dam/rai	_	3 5		4 275		1.073		1.214		1,880		6,395		2,642		4,409
lotai	DAIRCIES		1								8		2010		1 22.4		.02
Net Value	Baht/rai	٠.	1,301		88		151		1,126		9,4		6,165		7,		

Table 3.2316 Crop Budget of Agricultural Products for Phisanulok Irrigation Project nd DEDP Pumping Scheme in Financial Terms (Future Without Project Case) (27):

Item Unit	Padriv	2	Field Crons	rons				_	Other Fie.	Other Field Crops				vegelaties	DICS
	Day Seeper		Successes	96	Mino	Minohean	Sovbean	can	Sweet Corn	Ş	Water Melon	Melon	Average	Vegetables	ples
	Amount	Value	Amount Value Amount Value	Value	Amont	. 1	Amount Value	Value	IΖI		Amount Value		Amount Value	Amount Value	Value
5	765		809'6		153		200		1,950		2,430			1,300	
(2) Unit Price Baht/kg (3) Production Value Baht/rai Total Baht/rai		3,213	0.828	7,955		1,576	13.0	2,720 2,720	, J	10,335	·	17,739	8,093	- 1	6,500
Costs	1	5		93		. &	2460	250	3,40	126	0.15kg	1,446	-		221
(1) Seeds Baht/rai	ai 42kg	214	39kg	174	9 8 8 8	3 4	8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8	32	48kg	315	231kg	1,379		112kg	45°F
micals		159		95		£21		88 <u>F</u>		252		1,572			8 8
(4) Land Preparation* Baht/rai (5) Labour Baht/rai	ai 8.9md	1,012	26.7md	2,980	5.8md	699	5.5md	635	7.1md	819	19.1md	2,205	1,082 1	18.2md	2,100
	·a ·	02 <u>5</u>		4 390 24 390		1.105		37	37 1,275	1,975		81 6,715		:	4,630
Zalue		1,029		3,565		12		1,445		8,360		11,024	5,325		1,870

Table 3.2.13 Crop Budget of Agricultural Products for Phisanulok Irrigation Project nd DEDP Pumping Scheme in Financial Terms (Future With Project Case) (33)

		Paddy	Jt.	Field Crops	rops					Other Field Crops	d Crops				Vegetables	ables
Item	Unit	Dry Season	ason	Sugarcane	ane	Mungbean	bean	Soybean	ean	Sweet Corn	Corn	Water Melon	i	Average	i	ables
		Amount	Value	Amount Value Amount Value	Value	Amout	၂၅	Amount Value		Amount Value		Amount Value		Amount Value	Amount Value	Value
Value of Output						:					٠					
(1) Yield	kg/rai	850		10,580		200		300		2,300		2,780			1,490	
(2) Hait Drice	Raht/ko	4.2		0.828		10.3		13.6		5.3		7.3			5.0	
(2) Deschretion Value Baht/rei	Doht/ro		3 570		0928		2.060				12,190	(1	20,294	9,656		7,450
(3) Flounchon Vance Total	Baht/rai	.	3,570		8,760		2,060		4,080		12,190	(1	20,294	9,656	,	7,450
J	WARREN THE TAXABLE PARTY OF THE TAXABLE PARTY OF THE TAXABLE PARTY OF THE TAXABLE PARTY OF THE TAXABLE PARTY OF THE TAXABLE PARTY OF THE TAXABLE PARTY OF THE TAXABLE PARTY OF THE TAXABLE PARTY OF THE TAXABLE PARTY OF THE TAXABLE PARTY OF THE TAXABLE PARTY OF THE TAXABLE PARTY OF THE TAXABLE PARTY OF THE TAXABLE PARTY OF THE TAXABLE PARTY OF THE TAXABLE PARTY OF THE TAXABLE PARTY OF THE TAXABLE PARTY OF THE TAXABLE PARTY OF THE TAXABLE PARTY OF THE TAXABLE PARTY OF THE TAXABLE PARTY OF THE TAXABLE PARTY OF THE TAXABLE PARTY OF THE TAXABLE PARTY OF THE TAXABLE PARTY OF THE TAXABLE PARTY OF THE TAXABLE PARTY OF THE TAXABLE PARTY OF THE TAXABLE PARTY OF THE TAXABLE PARTY OF THE TAXABLE PARTY OF THE TAXABLE PARTY OF THE TAXABLE PARTY OF THE TAXABLE PARTY OF TAXABLE PARTY OF TAXABLE PARTY OF TAXABLE PARTY OF TAXABLE PARTY OF TAXABLE PARTY OF TAXABLE PARTY OF TAXABLE PARTY OF TAXABLE PARTY OF TAXABLE PARTY OF TAXABLE PARTY OF TAXABLE PARTY OF TAXABLE PARTY OF TAXABLE PARTY OF TAXABLE PARTY OF TAXABLE PARTY OF TAXABLE PARTY OF TAXABLE PARTY OF TAXABLE PARTY OF TAXABLE PARTY OF TAXABLE PARTY OF TAXABLE PARTY OF TAXABLE PARTY OF TAXABLE PARTY OF TAXABLE PARTY OF TAXABLE PARTY OF TAXABLE PARTY OF TAXABLE PARTY OF TAXABLE PARTY OF TAXABLE PARTY OF TAXABLE PARTY OF TAXABLE PARTY OF TAXABLE PARTY OF TAXABLE PARTY OF TAXABLE PARTY OF TAXABLE PARTY OF TAXABLE PARTY OF TAXABLE PARTY OF TAXABLE PARTY OF TAXABLE PARTY OF TAXABLE PARTY OF TAXABLE PARTY OF TAXABLE PARTY OF TAXABLE PARTY OF TAXABLE PARTY OF TAXABLE PARTY OF TAXABLE PARTY OF TAXABLE PARTY OF TAXABLE PARTY OF TAXABLE PARTY OF TAXABLE PARTY OF TAXABLE PARTY OF TAXABLE PARTY OF TAXABLE PARTY OF TAXABLE PARTY OF TAXABLE PARTY OF TAXABLE PARTY OF TAXABLE PARTY OF TAXABLE PARTY OF TAXABLE PARTY OF TAXABLE PARTY OF TAXABLE PARTY OF TAXABLE PARTY OF TAXABLE PARTY OF TAXABLE PARTY OF TAXABLE PARTY OF TAXABLE PARTY OF TAXABLE PARTY OF TAXABLE PARTY OF TAXABLE PARTY OF TAXABLE PARTY OF TAXABLE PARTY OF TAXABLE PARTY OF TAXABLE PARTY OF TAXABLE PARTY OF TAXABLE PARTY OF TAXABLE													-		
Input Costs	Raht/rai	; 25kg	175		550	бко	96	10kg	150	5kg	200	0.16kg	1,425	468		280
(1) Secus	Dobt/rai	50kg	260	3510	218	10kg	40	15kg	114	90kg	562 2	260kg	1,407	533	120kg	748
(z) reminzer			3 5		30	9	\ \	0	Q	D)	1 297	417		735
(3) Agro-chemicals	bant/rai		nor i		g . g		0 4		7 6		260		210	190	_	525
(4) Land Preparation, Baht/rai	1* Baht/ra	_	4 5¢		40C		777		1/0		2 3		017	7		1 (
(5) Labour	Baht/ra	Baht/rai 9.4md	1,032	1,032 27.8md	3,053	6.4md	702	6.0md		7.8md	826 7	20.6md	7,778	7,117	19.3ma	2,173
(6) Others	Raht/rai		125		80		47		20		200		78	94		315
Total	Baht/rai		2,242		4,436		1,089		1,227		2,328		6,645	2,823		4,728
Net Value	Baht/rai		1,328		4,324		971		2,853		9,862	,	13,649	6,833		2,722

1) * indicates dependence on mechanization, including fuel cost. Note:

2) Vegetables include cucumber, long beans, etc. Source: Farm household survey.

Table 3.2:14 Crop Budget of Agricultural Products for Associate Irrigation Projects in Financial Terms (Present Condition) (1)3)

The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s		······································		Field (Crops			Veget	ables
Item	Unit	Mung	bean	Soyb	ean	Aver	age	Veget	ables
	-	Amout	Value	Amount	Value	Amount	Value	Amount	Value
Value of Output									
(1) Yield	kg/rai	170		200				1,300	
(2) Unit Price	Baht/kg	7.9		8.6				4.0	
(3) Production Value	Baht/rai		1,343		1,720		1,532		5,200
Total	Baht/rai		1,343		1,720		1,532		5,200
Input Costs									
(1) Seeds	Baht/rai	5kg	82	24kg	240		161	3kg	210
(2) Fertilizer	Baht/rai	8kg	38	6kg	30		34	112kg	699
(3) Agro-chemicals	Baht/rai		57		84		71		700
(4) Land Preparation*	Baht/rai		155		220	1	188		500
(5) Labour	Baht/rai	5.8md	642	5.5md	605		624	18.2md	2,000
(6) Others	Baht/rai		61		35		48		300
Total	Baht/rai	,	1,035	·	1,214		1,126		4,409
Net Value	Baht/rai		308		506)	406	<u>,</u>	791

Note: 1) * indicates dependence on mechanization, including fuel cost.

2) Vegetables include cucumber, long beans, etc.

Source: Farm household survey.

Table 3.2:14 Crop Budget of Agricultural Products for Associate Irrigation Projects in Financial Terms (Future Without Project Case) (2)31

				Field (Crops		- 1	Veget	ables
Item	Unit	Mung	bean	Soyt	ean	Aver		Veget	
,	-	Amout	Value	Amount	Value	Amount	Value	Amount	Value
Value of Output				1.05					
(1) Yield	kg/rai	170		200				1,300	
(2) Unit Price	Baht/kg	10.2		13.5	:			4.9	
(3) Production Value	Baht/rai		1,734		2,700		2,217		6,370
Total	Baht/rai		1,734		2,700		2,217	· · · · · · · · · · · · · · · · · · ·	6,370
Input Costs									
(1) Seeds	Baht/rai	5kg	86	24kg	252		169		221
(2) Fertilizer	Baht/rai	8kg	40	6kg	32		36	112kg	734
(3) Agro-chemicals	Baht/rai		60		88		74		735
(4) Land Preparation*	Baht/rai		163		231		197		525
(5) Labour	Baht/rai	5.8md	673	5.5md	635		654	18.2md	2,100
(6) Others	Baht/гаі		64		37		51		315
Total	Baht/rai		1,086		1,275	· ·	1,181		4,630
Net Value	Baht/rai		648		1,425	5	1,036		1,740

Note: 1) * indicates dependence on mechanization, including fuel cost.

2) Vegetables include cucumber, long beans, etc.

Table 3.2:14 Crop Budget of Agricultural Products for Associate Irrigation Projects in Financial Terms (Future With Project Case) (3)3

	Complete Complete Complete	Pac	ldy			Field (Crops			Veget	ables
Item	Unit	Dry S	eason	Mung	bean	Soyb	ean	Aver	age	Veget	ables
		Amount		Amout	Value	Amount	Value	Amount	Value	Amount	Value
Value of Output											
(1) Yield	kg/rai	850		200		300				1,490	
(2) Unit Price	Baht/kg	4.1		10.2		13.5				4.9	
(3) Production Value	Baht/rai		3,485		2,040		4,050		3,045		7,301
Total	Baht/rai		3,485	÷	2,040		4,050		3,045		7,301
Input Costs											
(1) Seeds	Baht/rai	25kg	175	6kg	96	10kg	150		123	4kg	280
(2) Fertilizer	Baht/rai	52kg	260	10kg	49	15kg	114		82	120kg	748
(3) Agro-chemicals	Baht/rai	i	160	-	40		- 80		60		735
(4) Land Preparation*	Baht/rai	Į	490		155		170		163		525
(5) Labour		9.4md	1,032	6.4md	701	6.2md	678		690	19.3md	2,125
(6) Others	Baht/rai	i	125		47		50		49		315
Total	Baht/rai	i :	2,242		1,088		1,242		1,167		4,728
Net Value	Baht/rai	i	1,243		952		2,808		1,878		2,573

Note: 1) * indicates dependence on mechanization, including fuel cost.

2) Vegetables include cucumber, long beans, etc.

Table 3.2138. Crop Budget of Fruit Trees for Whole Benefit Area in Financial Terms ((1));

		Present Condition	ondition	Future Without Project	out Project	Future With Project	Project
Ĭfem	Unit	*Mango*	*00	Mango*	*0;	Mango**	**
	1	Amount	Value	Amount	Value	Amount	Value
Value of Output				,		700	
(1) Yield	kg/rai	1,084		1084		488	
(2) Unit Price	Baht/kg	10.0		10.0		19.4	t t
(3) Production Value	Baht/rai		10,840		10,840		17,150
Total	Baht/rai		10,840		10,840		UCL,\1
Input Costs							
(1) Initial Investment Cos Baht/rai	s Baht/rai						
(a) Pump	Baht/rai		1,200		1,260		1,440
(h) Sprinkler	Baht/rai	. •	320		336	٠	384
(c) Sprayer	Baht/rai		260		273		312
(d) Others	Baht/rai		191		200		173
(2) Opreation Cost	Baht/rai						1
(a) Fertilizer	Baht/rai	247kg	1,400	247kg	1,470	139kg	830
(h) Aoro-chemicals	Baht/rai		900		945		426
(c) Labour	Baht/rai	7.5md	823	7.5md	864	9.1md	1,050
(d) Others	Baht/rai		312		328		969
Total	Baht/rai		5,406		2,676		5,311
Net Value	Baht/rai		5,434		5,164		11,839

Note: * indicates local varieties.

** indicates an export-type variety.

Table 3,24ff. Crop Budget of Mango* for Whole Benefit Area in Financial Terms (Present Condition) ((2):

Item	Chit	1	2	3	4	3	٥	2	∞	6	10-25
Value of Cutput					6			,	000	1 250	5
1) Yield	kg/rai	0	0	35	3	3	200	3	30,	1,400	3 4
2) Unit Price	Baht/kg	0	0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
2) Droduction Value	Hahifrai	_	•	1.500	3,000	2000	7,500	7,500	10,000	12,500	14,000
Otal	Baht/rai	0	۰۵	1,500	3,000	2,000	7,500	7,500	10,000	12,500	14,000
Input Costs											
1) Initial Investment Cost											1
(a) Pumn	Haht/rai	30.000	0	0	0	0	0	0	0	0	0
(a) I ump	Baht/rai	800	0	0	0	0	0	0	0	0	0
(b) Sprinkler	Boht/rai	905,9	· c	C	С	0	0	0	0	0	0
(c) opiayei	De Le fans	0000	1014	· c	ے ،	_	0	C	0	0	0
(d) Others	Danyra	C+0.7	t // .	>	>	>	,	,	,		
2) Opreation Cost							4	,	,		000
(a) Fertilizer	Baht/rai	ڼ	0	ş	8	1,200	9,600	3,5	1,900	7,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00	50,
(b) Agro-chemicals	Baht/rai	0	0	S 0 0 0	90	98	9	90.	8	8	98
(c) Tables	Poht/rai	· c	ç	550	550	200	8	875	875	980	960
	Dobt/mi	-		105	245	280	330	348	348	356	356
(d) Officia Cotal	Baht/rai	47,349	1,914	2,145	2,695	3,190	3,630	3,823	3,823	3,916	3,916
Not Value	Baht/rai	Baht/raj -47,349	-1,914	-645	305	1,810	3,870	3,677	6,177	8,584	10,084

Note: * indicates local varieties. Source: Farm household survey.

Table 3.2.18 Crop Budget of Mango* for Whole Benefit Area in Financial Terms (Future Without Project Case) ((3):

Item	Unit	-	2	3	4	2	٥	7	∞	6	10-25
Value of Output							. :	1	9	,	,
(I) Yield	kg/rai	O	0	150	8	Š	ξ Σ	750	1,000	1,20	1,40€
(2) Unit Price	Baht/kg	0	0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
(3) Production Value	Baht/rai	0	0	1,500	3,000	5,000	7,500	7,500	10,000	12,500	14,00
Total	Bahı/rai	0	0	1,500	3,000	2,000	7,500	7,500	10,000	12,500	2,00
Input Costs									٠		
(1) Initial Investment Cost											
(a) Pump	Bahi/rai	31,500	Û	0	0	0	O.	0	0	0	0
(b) Sprinkler	Baht/rai	8,400	0	O	0	0	0	0	0	•	0
(c) Spraver	Baht/rai	6.825	0	0	0	0	0	0	0	0	Φ
(d) Others	Baht/rai	2,991	2,010	0	0	0	0	0	C	0	0
(2) Opreation Cost											
(a) Fertilizer	Bahl/rai	0	0	945	945	1,260	1,680	1,680	1,680	1,680	1,680
(h) Agro-chemicals	Baht/rai	0	0	525	1,050	1,050	1,050	1,050	1,050	1,050	1,050
(c) I shour	Raht/rai	. =	0	578	578	735	735	616	919	1008	1008
(d) Others	Baht/rai	· 'c	0	205	257	305	347	365	365	374	374
Total	Baht/rai	49,716	2,010	2,253	2,830	3,350	3,812	4,014	4,014	4,112	4,112
Net Value	Baht/rai	Baht/rai -49,716	-2,010	-753	170	1,650	3,688	3,486	5,986	8,388	9,888

Note: * indicates local varieties. Source: Farm household survey.

Table 3.215 Crop Budget of Mango* for Whole Benefit Area in Financial Terms (Future Without Project) (14.)

Item	Unit		2	9	4	5	9	7	8	6	10-25
LÔ.	1.0/40			. 0	200	375	550	750	1,000	1,125	1,125
(I) Yield	Kg/141		o C	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4
(2) Unit Price	Dalit/ng Raht/rai		0	1,940	3,880	7,275	10,670	14,550	19,400	21,825	21,825
(5) Frontenon vaine Total		0	0 .	1,940	3,880	7,275	10,670	14,550	19,400	21,825	21,825
Input Costs											
(1) Initial Investment Cost					÷				•	(c
(a) Piimn	Baht/rai	36,000	0	0	0	0	0	0	0)	>
(a) I ump (b) Corintler	Raht/rai	009.6	0	0	0	0	0	0	0	0	0
(b) Springer	Raht/rai	7.800	0	0	0	0	0	0	0	0	0
(d) Others	Baht/rai	2,849	1,485	0	0	0	0	0	0	0	0
(2) Opreation Cost			•		;				1		1
(a) Fertilizer	Raht/rai	0	0	550	009	800	008	006	950	950	926
(a) I Chimicale	Raht/rai	· · c	C	250	300	300	300	200	200	200	200
(b) regio-chemicais	Baht/rai	· ·		520	570	685	775	875	1,150	1,210	1,275
(c) Labour	Roht/rai	· C	· c	352	477	508	627	<i>L</i> 99	810	816	822
(d) Others Total	Baht/rai	56.249	1,485	1,672	1,947	2,293	2,502	2,942	3,410	3,476	3,547
Net Value	Baht/rai	-56.249	-1,485	268	1,933	4,982	8,168	11,608	15,990	18,349	18,278
אסר י שונים											

Note: * indicates an export-type variety. Source: Farm household survey.

3.94

Table 3.2.16 Fish Culture Budget for Whole Benefit Area in Financial Terms

Item	Unit	Present	Future Without Project	Future With Project
Value of Output				<u> </u>
(1) Yield	t/rai	0.37	0.37	1.33
(2) Unit Price	Baht/t	12,504	15,150	15,150
(3) Production Value	Baht/rai	4,626	5,606	20,150
Total	Baht/rai	4,626	5,606	20,150
Input Costs				
(1) Initial Investment Cost				
(a) Pond Digging*	Baht/rai	13,800	13,800	13,800
(b) Pump Cost**	Baht/rai	5,460	5,460	5,460
(2) Operation Cost				
(a) Flingerlings	Baht/rai	311	342	705
(b) Labour	Baht/rai	1,310	1,441	550
(c) Feed	Baht/rai	36	39	2,444
(d) Limestone	Baht/rai	122	134	2,577
(e) Fuel	Baht/rai	117	129	338
(f) Others	Baht/rai	2,145	2,360	0
Total	Baht/rai	4,041	4,445	6,614
Net Value	Baht/rai	585	1,161	13,536

Note: 1) * indicates negligible value due to semi-permanent utilization of the digged pond.

^{2) **} indicates negligible value due to multifarious utilization of a pump.

Table 3.2.17 Number of Livestock in Chao Phrays and Kok-Ing Basin (1)

	Area				Provincial L	evel (2)							Busin Level (3)=(2)x(1)				
Basin and Province	Rate	Bu	Buffalo	Cante	li		П	Chicken		Buffelo	- 1	Cattle		Swine	90	Chicken	2001
	②	1986	1,995	1986	1 995	1986	1,995	1980	CAST	1980	1995	1990	Ĉ.	1360		1300	
1. Upper Chao Phraya Basin 1.1 Non Bodo /21 4601												•					
(1) Upper Nan (8,110)								, 158	1 213	¥	9	4			3	1.089	1,14
Nas	94		42.5	9	7 7	90 5	7.00	9014	35.9.6	61	2	3.	77	121	151	185	744
Uttaradit	28	43			97.0	*	0.00	200	D.Co.	-	94	*			8	1273	1.8.1
Subtotal	,	-		-	-	1	-			à		8					
(2) Lower Nan (13,350)				ξ	***	7	25.0	099	2.656	31	15	38			9	475	1,912
Uttaradit	72			2	2 8	2	2	1 284	1,690	9	25	25			65)	1,130	1,4,1
Phitsanulok	88		279.6	3	103.0	70	2 0	714	960	35	1	1	or S	-	33	107	507
Phichi	. 57			91	6.0	2 2	***	1017	790	3 2	1	1			152	27.4	i in
Phetchabun	17	3		3	7.06.7	*	91,	OID'T	77.00	77.	1	1			٥	202	7
Nakhon Sawan	1.5		37.8	156	186.8	36	63.1	ccet	3,107	9 :	٥	3 5			, ,	900	302.7
Palatel	-		•		,	•	-	1	•	138	3	ă		· C	2	18764	4
Total				t	-	•	1	1		25	ğ	208			239	3,852	Ç.
2 Your Basin (14.760)								-		•	•				;	-{	
	•	9			61.1	\$	68.1	1,158	1,213	9	P	F .			•	ô	
Phases	42			\$3	91.6	S	51.6	1,094	1,314	8	16	36			27	639	200
Ismann	21				150.6	87	75.8	1,077	1,413	23	13	23			16	2278	
Phras	100				68.5	7.8	6.69	1,227	1,143	ន	7	\$			69	1,227	1.1
Cothorbal	9	32	12.9		122.5	97	9795	839	979	32	13	13	123	9	57	839	6
Distantish	12				109.0	82	74.0	1,284	1,690	7	. 3	**			ő	\$	
Phichit	43			31	62.9	55	58.7	714	889	Ŕ	~	*			ล	307	382
Kamahaana Phei	15				86.1	19	60.9	826	753	5	6	2			8	139	
Total		•			1	1	1		1	22	62	187		214	211	3,422	3,74(
1.3 Wang Basin (6,740)						ţ	ř			¥	ş	8			Ç	ASI	1.116
Lempang	27	108	02.6	777	2 221	06	27.0	019	177	6	-	9	٥	2	2	37	
Tak	9	ř			555	£*	2				•	70			6	783	91.
Total	•			1	1					3							
A Ping Basin (21,190)	-	,		:	5	1881	746.4	Ġ	4 534	201	3	3	124			2726	4,261
Chang Mit	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				077	7.7	56.0	1.281		23	13	48				1,231	1,1
Lumpana	34		21.6	100	135.5	81	34.5	019	127	71	10	94	72	13	16	281	334
Vient Phone	, L				16.1	139	609	826		71	12	11				650	S
Nother Comm		8		156	186.8	38	63.1	1,955		2	R	9				78	
Total				•		٠	•	.1	•	170	8	198				5,016	3
.5 Sakas Krang Basin (3,240)			9.		797	19	609	929	27	79	-	-			w	7	
Kamphaeng Phet					1 2 2	2	159	1.955	3.107	13	٥	37			15	469	
Nather Seven	\$ [2	3	28.5	01	179	2	14.7	121	1,106	18	13	9	g		15	07	·
COM LAIN						•			-	33	23	45		30	35	584	1,171
1 A Passet Resin /10.18(1)					-												
Loel	92			33	102.1	78	32.4	467	232	6	\$	3	10		8	47	ន
Phetchaban	12				196	\$2	71.2	1,610		45	31	8			S	1,159	7.7
Digital Digital	8		13.8		130.3	82	85.9	969		8	7	\$º			43	432	1.6
Seculator	T	42	797	63	66.3	3	91.0	299		32	2	6			8	\$30	2,268
Availhava		32	7 16.7	33	40,3	35	40.2	S)		7	-	2			3	0	2
																	ĺ

Table 3.2.17 Number of Livestock in Chao Phraya and Kok-ing Basin (2)

1966 1,095 1966 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655 1,655		726					(7)							The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	4	***************************************		
Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Cont	Barle and Breadage	Date	But	falo	Carr	ı			Chicke	g	Baff	op	Cart	تو	Swin	نه	Chick	£
2 Control Propriety Bests (21.129) 2 Control Propriety Bests (21.129) 2 Control Propriety Bests (21.129) 2 Control Propriety Bests (21.129) 2 Control Propriety Bests (21.129) 2 Control Propriety Bests (21.129) 2 Control Propriety Bests (21.129) 2 Control Propriety Bests (21.129) 2 Control Propriety Bests (21.129) 2 Control Propriety Bests (21.129) 2 Control Propriety Bests (21.129) 2 Control Propriety Bests (21.129) 2 Control Propriety Bests (21.129) 2 Control Propriety Bests (21.129) 2 Control Propriety Bests (21.129) 2 Control Propriety Bests (21.129) 2 Control Propriety Bests (21.129) 2 Control Propriety Bests (21.129) 2 Control Propriety Bests (21.129) 2 Control Propriety Bests (21.129) 2 Control Propriety Bests (21.129) 2 Control Propriety Bests (21.129) 2 Control Propriety Bests (21.129) 2 Control Propriety Bests (21.129) 2 Control Propriety Bests (21.129) 2 Control Propriety Bests (21.129) 2 Control Propriety Bests (21.129) 2 Control Propriety Bests (21.129) 2 Control Propriety Bests (21.129) 2 Control Propriety Bests (21.129) 2 Control Propriety Bests (21.129) 2 Control Propriety Bests (21.129) 2 Control Propriety Bests (21.129) 2 Control Propriety Bests (21.129) 2 Control Propriety Bests (21.129) 2 Control Propriety Bests (21.129) 2 Control Propriety Bests (21.129) 2 Control Propriety Bests (21.129) 2 Control Propriety Bests (21.129)	Dame and Trovince	(£)	E	1 1	1 1	1 1	l	"	l I	LΙ	1986	1995	1986	1995	1986	1995	1986	1995
National State 1	2 Lower Chao Phenya Bashn (21,120)		۶		7	186.1	19	609	626	753	**	-	-	~	~~~~~		8	
Objetation 54 13 64 445 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146 146	National Profit	, 63	2 2		156	186.8	93	63.1	1,955	3,107	31	ผ	68	305	22	38	1,114	1,
Options 10 62 10 64 64 64 64 64 64 64 64 64 64 64 64 64 64 64 64 64 64 64 64 64 64 64 64 64 64 64 64 64 64 64 64 64 64 64 64 64 64 64 64 64 64 64 64 64 64 64 64 64 64 64 64 64 64 64 64 64 64 64 64 64 64 64 64 64 64 64 64 64 64 64 64 64 64 64 64 64 64 64 64 64 64 64 64 64 64 64 64 64 64 64 64 64 64 64 64 64 <t< td=""><td>Take There</td><td>7</td><td>3</td><td></td><td>61</td><td>29</td><td>\$</td><td>\$</td><td>121</td><td>1,106</td><td>18</td><td>13</td><td>9</td><td>21</td><td>16</td><td>151</td><td>41</td><td></td></t<>	Take There	7	3		61	29	\$	\$	121	1,106	18	13	9	21	16	151	41	
Procession Section S	Chains	100		_	8	84.9	386	40.9	464	544	77	10	os:	85	38	41	494	
Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second S	Dhetchelum	2			125	196.2	82	71.2	3,610	1,964	2	1	+	9	2	2	48	
Section 50 66 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 56 <t< td=""><td>(contact</td><td>95</td><td>9</td><td></td><td>157</td><td>1803</td><td>82</td><td>623</td><td>869</td><td>3,260</td><td>30</td><td>7</td><td>7.9</td><td>06</td><td>41</td><td>43</td><td>435</td><td>T</td></t<>	(contact	95	9		157	1803	82	623	869	3,260	30	7	7.9	06	41	43	435	T
Saginaria 100 17 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.	Sarahad	T T		ŀ	63	66.3	75	91.0	662	2,945	01	*	14	15	12	21	152	
Agalithment 10 4.5 3.9 4.01 2.9 3.9 4.01 3.9 4.01 3.9 4.01 3.9 4.01 3.00 4.02 3.0 4.00 3.0 1.7 4.00 3.0 1.7 4.00 3.0 1.7 4.00 3.0 1.7 4.00 3.0 1.7 3.0 4.00 3.0 1.0 3.0 4.00 3.0 1.0 3.0 4.00 3.0 1.0 3.0 4.00 3.0 1.0 3.0 4.00 3.0 4.00 3.0 1.0 3.0 4.00 3.0 4.00 3.0 4.00 3.0 4.00 3.0 4.00 3.0 4.00 3.0 4.00 3.0 4.00 3.0 3.0 4.00 3.0 3.0 4.00 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0	Control	901			17	24.0	9	34.6	270	582	7	3	17	7	40	3.5	270	
Agricultural state of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the c	4-6-7	9			33	10.1		33.1	431	1,721	12	5	33	07	52	33	431	1
Application of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control o	Supplied State	Ao			120	160,7		157.0	1,235	3,099	39	17	107	143	132	140	1,099	2
Printent Parison Fig. 2	Amilhere	68			33	40.3		40.2	577	4,083	30	91	31	37	24	37	537	3
Nighton Protein 52 1.2 2.6 4.9 3.9 7 2 3 9 2.06 4.0 Neithbon Protein 100 1 0.6 3 2.4 4.0 7.9 1 2 3.0 2.0 4.0 Neithbon Protein 100 2 6.6 3 2.2 2.1 3 3 3 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 <th< td=""><td>Deckum Thank</td><td>OU.</td><td></td><td></td><td>8</td><td>7,8</td><td>3</td><td>15,4</td><td>86</td><td>1,133</td><td>•</td><td>3</td><td>\$</td><td>*</td><td>3</td><td>15</td><td>300</td><td>1</td></th<>	Deckum Thank	OU.			8	7,8	3	15,4	86	1,133	•	3	\$	*	3	15	300	1
Northerief 100	Nethon Pethom	8	•	1.8	22	41.9	777	456.6	686	3,304	7	2	35	36	206	420	016	3
Busidiol. Trial 100 2 0.8 6.0 1.0 4.0 6.0 1.0 4.0 6.0 1.0 4.0 6.0 1.0 4.0 6.0 1.0 4.0 6.0 1.0 4.0 6.0 1.0 4.0 6.0 1.0 4.0 6.0 1.0 4.0 6.0 1.0 4.0 6.0 1.0 4.0 6.0 1.0 4.0 6.0 1.0 4.0 6.0 1.0 4.0 6.0 1.0 4.0 6.0 1.0 4.0 6.0 1.0 4.0 6.0 1.0 4.0 6.0 1.0 4.0 6.0 1.0 4.0 6.0 1.0 4.0 6.0 1.0 4.0 6.0 1.0 4.0 6.0 1.0 4.0 1.0 4.0 1.0 4.0 1.0 4.0 1.0 4.0 4.0 1.0 4.0 4.0 4.0 1.0 4.0 4.0 4.0 4.0 4.0 4.0 <	Monthshark	001	1	0.6	6	3.2	2	2.4	210	£T.	1	1	3]	E	2	2	210	
Samuil Printis 100 1 1 4 8.5 6.7 4.0 1 1 1 4 8.5 6.7 4.0 1 1 1 4 9 6.57 Samii Subbas 6.3 2.2 17.1 2.7 3.2 4.00 13.156 1 1 1 2 3 2.7 3.1 2.0 3.1 2.0 3.1 2.0 3.1 2.0 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1	Benefick	1001	2	0.8	č	6.0	10	7.1	403	629	2	1]E	9	10	7	+03	
Signeti Subbon 20 4.9 331 200 - 1 1 2 4 275 Challed Substitution 4.0 13.1 2.0 4.0 13.20 4.0 13.20 1.6 13.20 1 1 1 2 4 27.5 Challed Light 1.0 4.0 1.6 1.7 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 <td>Samul Prakan</td> <td>1001</td> <td></td> <td></td> <td>T</td> <td>1.1</td> <td>4</td> <td>8.5</td> <td>457</td> <td>407</td> <td>-</td> <td>,</td> <td>***</td> <td>I</td> <td>*</td> <td>6</td> <td>657</td> <td></td>	Samul Prakan	1001			T	1.1	4	8.5	457	407	-	,	***	I	*	6	657	
Charlonoggio 6 22 17.1 27 52.4 138 2059 4,706 13.156 1 2 2 3 6 12 2.2 Charlonoggio Charlonoggio 40 16.3 17.3 24.5 13.6 13.6 26.3 13.6 13.6 26.3 13.6 25.3 13.6 25.3 13.6 25.3 13.7 26.3 10.2 13.2 25.3 13.2 25.3 13.2 25.3 25.3 25.3 25.3 25.3 25.4 25.3 25.3 25.4 25.3 25.3 25.4 25.3 25.4 25.3 25.4 25.4 25.3 25.4 25.4 25.4 25.4 25.4 25.4 25.4 25.4 25.4 25.4 25.4 25.4 25.4 25.4 25.4 25.4 25.4 25.4 25.4 25.4 25.4 25.4 25.4 25.4 25.4 25.4 25.4 25.4 25.4 25.4 25.	Commi School	E			F	1.0	2	6+	331	207	•	•	1	-	2	4	275	
Kazchanburt 10 40 163 245 164 726 42 216 25 4 116 Chandschall Chandschall Chandschall Chandschall 20 107 493 660 600 681 7240 2 3.1 Kok and Robins Basha (340) 30 132 66.4 3.540 3.543 5.534 13 7 11 16.1 2.640 3.540 3.543 3.54 3.54 3.54 3.54 3.54 3.54 3.54 3.54 3.54 3.54 3.54 3.54 3.54 3.54 3.54 3.54 3.54 3.54 3.54 3.54 3.54 3.54 3.54 3.54 3.54 3.54 3.54 3.54 3.54 3.54 3.54 3.54 3.54 3.54 3.54 3.54 3.54 3.54 3.54 3.54 3.54 3.54 3.54 3.54 3.54 3.54 3.54 3.54 3.54 3.54 3.	Oxchoenena	9			27	52.4	138	205.9	4,705	13,156	1	1	2	ě	8	12	282	
Chapticial 3. Cok as big Basio (3.300) 3. Cok as big Basio (3.300) 4.58 of Basio (3.300) 4.58 of Basio (3.300) 4.58 of Basio (3.300) 4.58 of Basio (3.300) 4.58 of Basio (3.300) 4.58 of Basio (3.300) 4.58 of Basio (3.300) 4.58 of Basio (3.300) 4.58 of Basio (3.300) 4.58 of Basio (3.300) 4.58 of Basio (3.300) 4.58 of Basio (3.300) 4.58 of Basio (3.300) 4.58 of Basio (3.300) 4.58 of Basio (3.300) 4.58 of Basio (3.300) 4.58 of Basio (3.300) 4.58 of Basio (3.300) 4.58 of Basio (3.300) 4.58 of Basio (3.300) 4.59 of Basio (3.300) 4.50 of Basio (3.300) 4.50 of Basio (3.300) 4.50 of Basio (3.300) 4.50 of Basio (3.300) 4.50 of Basio (3.300) 4.50 of Basio (3.300) 4.50 of Basio (3.300) 4.50 of Basio (3.300) 4.50 of Basio (3.300) 4.50 of Basio (3.300) 4.50 of Basio (3.300) 4.50 of Basio (3.300) 4.50 of Basio (3.300) 4.50 of Basio (3.300) 4.50 of Basio (3.300) 4.50 of Basio (3.300) 4.50 of Basio (3.300) 4.50 of Basio (3.300) 4.50 of Basio (3.300) 4.50 of Basio (3.300) 4.50 of Basio (3.300) 4.50 of Basio (3.300) 4.50 of Basio (3.300) 4.50 of Basio (3.300) 4.50 of Basio (3.300) 4.50 of Basio (3.300) 4.50 of Basio (3.300) 4.50 of Basio (3.300)	Kanchanaburi	10			178	246.3	£*	35.0	1,164	749	+	2.	18	ম	*	7	116	
3.1 Kok Busin (3-90) 3.1 Kok Busin (3-90) 3.1 Kok Busin (3-90) 3.1 Kok Busin (3-90) 3.1 Kok Busin (3-90) 3.1 Kok Busin (3-90) 3.1 Kok Busin (3-90) 3.1 Kok Busin (3-90) 3.1 Kok Busin (3-90) 3.1 Kok Busin (3-90) 3.1 Kok Busin (3-90) 3.1 Kok Busin (3-90) 3.1 Kok Busin (3-90) 3.1 Kok Busin (3-90) 3.1 Kok Busin (3-90) 3.1 Kok Busin (3-90) 3.2 Kusin Busin (3-90) 3.2 Kusin Busin (3-90) 3.2 Kusin Busin (3-90) 3.2 Kusin Busin (3-90) 3.2 Kusin Busin (3-90) 3.2 Kusin Busin (3-90) 3.2 Kusin Busin (3-90) 3.2 Kusin Busin (3-90) 3.2 Kusin Busin (3-90) 3.2 Kusin Busin (3-90) 3.2 Kusin Busin (3-90) 3.2 Kusin Busin (3-90) 3.2 Kusin Busin (3-90) 3.2 Kusin Busin (3-90) 3.2 Kusin Busin (3-90) 3.2 Kusin Busin (3-90) 3.2 Kusin Busin (3-90) 3.2 Kusin Busin (3-90) 3.2 Kusin Busin (3-90) 3.2 Kusin Busin (3-90) 3.2 Kusin Busin (3-90) 3.2 Kusin Busin (3-90) 3.2 Kusin Busin (3-90) 3.2 Kusin Busin (3-90) 3.2 Kusin Busin (3-90) 3.2 Kusin Busin (3-90) 3.2 Kusin Busin (3-90) 3.2 Kusin Busin (3-90) 3.2 Kusin Busin (3-90) 3.2 Kusin Busin (3-90) 3.2 Kusin Busin (3-90) 3.2 Kusin Busin (3-90) 3.2 Kusin Busin (3-90) 3.2 Kusin Busin (3-90) 3.2 Kusin Busin (3-90) 3.2 Kusin Busin (3-90) 3.2 Kusin Busin (3-90) 3.2 Kusin Busin (3-90) 3.2 Kusin Busin (3-90) 3.2 Kusin Busin (3-90) 3.2 Kusin Busin (3-90) 3.2 Kusin Busin (3-90) 3.2 Kusin Busin (3-90) 3.2 Kusin Busin (3-90) 3.2 Kusin Busin (3-90) 3.2 Kusin Busin (3-90) 3.2 Kusin Busin (3-90) 3.2 Kusin Busin (3-90) 3.2 Kusin Busin (3-90) 3.2 Kusin Busin (3-90) 3.2 Kusin Busin (3-90) 3.2 Kusin Busin (3-90) 3.2 Kusin Busin (3-90) 3.2 Kusin Busin (3-90) 3.2 Kusin Busin (3-90) 3.2 Kusin Busin (3-90) 3.2 Kusin Busin (3-90) 3.2 Kusin Busin (3-90) 3.2 Kusin Busin (3-90) 3.2 Kusin Busin (3-90) 3.2 Kusin Busin (3-90) 3.2 Kusin Busin (3-90) 3.2 Kusin Busin (3-90) 3.2 Kusin Busin (3-90) 3.2 Kusin Busin (3-90) 3.2 Kusin Busin (3-90) 3.2 Kusin Busin (3-90) 3.2 Kusin Busin (3-90) 3.2 Kusin Busin (3-90) 3.2 Kusin Busin (3-90) 3.2 Kusin Busin (3-90) 3.2 Kusin Busin (3-90) 3.2 Kusin Busin (3-90) 3.2 Kusin Busin (3-90) 3.2 Kusi	Grandfotal					,	-		•	ľ	213	107	493	099	003	881	7,840	R
3.1 Kox Bankel (Askal) 10 132 65.7 112 161.1 164 246.4 5.54 13 7 11 16 15 25 354 Chlass Mid (Askal) 50 137 64.9 69 102.4 132.0 2,199 3,848 68 32 35 51 72 66 1,100 Total 3.2 lag Bank (A.50) 30 137 64.9 69 102.4 1,218 2,189 46 67 86 91 1,454 Total 4.2 lag Bank (A.50) 30 137 64.9 69 102.4 1,314 37 49 53 34 40 660 Phyloso 30 137 64.9 56 15.4 1,314 37 49 23 34 40 660 Phyloso 30 37 37 36 1,534 37 37 30 32 Total 30 43 37 36 136 136 </td <td>3. Kok and lag Barin (9,390)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>_</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>•</td> <td></td> <td></td>	3. Kok and lag Barin (9,390)							_								•		
Chiang Rai 50 137 64.9 69 1024 36.8 51 52 55 51 72 66 1,00 Total Total Total 1.31 64.9 64.9 66.0 1,004 1,214 30 46 67 78 66 1,004 Total 30 137 64.9 64.9 64.9 102.4 1,44 132.0 2,129 3.88 41 19 21 43 40 660 Physics 30 137 64.9 64.9 15.6 1,514 37 41 19 21 43 40 660 Physics 30 31.0 32.0 31.6 1,514 37 41 41 42 43 40 660 Total 31 32.0 32.0 32.0 32.0 32 34 37 77 70 1,234 Total 32 32 34 35		-			112	161.1	164	246.4	3,540	5,534	13	7	11	36	16	33	×	
Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Total Tota	L	50			69	102.4	144	132.0	2,199	3,888	69	32	35	51	72	99	1,100	1
30 137 64.9 69 102.4 144 132.0 2,159 3,184 41 19 21 49 21 49 53 34 40 650 36 63 37.0 63 51.6 1,094 1,314 37 21 49 53 34 30 635 5 63 63 63 71 70 84 77 70 1,284 6 1 1 1 1 159 80 116 151 166 160 2,748	I.						-		,	,	82	39	94	1.9	88	16	1,454	2
30 137 64.9 65 102.4 144 132.0 2,159 3,188 41 19 21 31 43 40 660 31 43 51.6 1,084 1,314 37 41 40 53 34 40 650 32 43 66 1,084 1,314 37 70 1,294 34 43 43 43 43 43 43 43 45 43 43 43 43 43 43 43 45 43 43 43 43 43 43 43 45 43 43 43 43 43 43 43 45 43 43 43 43 43 43 43 45 43 43 43 43 43 43 43 45 43 43 43 43 43 43 <	3.2 lng Basin (4,450)											1	1		!			
58 63 51.6 1504 1,314 37 21 49 53 34 30 653 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Chlang Rai	30			8	102.4	244	1320	2,199	3,688	7	19	21	2	9	Q.	999	
THIS SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION SECTION S	Phaveo	25			88	91.6	55	51.6	1,094	1,314	37	21	40	23	ž	ğ	635	
159 80 116 151 166 150 2,748	Total		•	•		7			•	•	22	Ŧ	8	\$	4	S	1,294	
	Orenational			_		7		•	-	-	S	2	116	151	166	160	2,748	

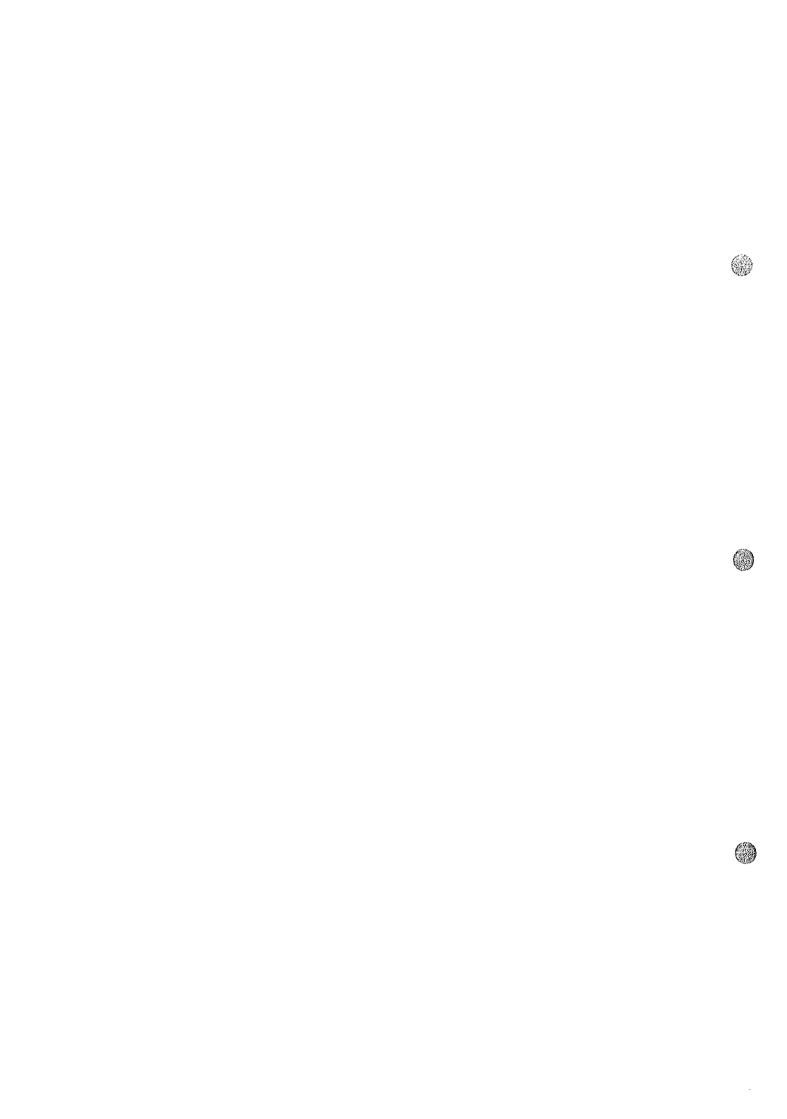
Table 3.2.18 Freshwater Fish Condition in 1995 (1)

			Provincial Area Leve	a Teve				Basin Area Level		
	7	Mo of Household	No of Ponds	Area	Product	No. of Household	No. of Ponds	Area	Product	Yield
Basin and Frovince		(10)	(10,)	(10° Rai)	(Tons)	(10,)	(10²)	(10 ² Rui)	(Tons)	(Kg/Rai)
1. Upper Chao Phraya Basin 1.1 Nan Basin (21,460)										
(1) Upper Nan (8,110)	70	-` e	Y		1,384.4	3.1	3,3	1.4	1,301	923
Nan		0.6		7.0	7,547.9	1.1	1.2	2.0	2,113	1,078
Utaredit	3					4.2	4,5	3.4	3,415	1,013
(2) Lower Nan (13,350)					7 547.0		3.2		5,434	1,078
Uturadit	72	3.9			3 878 9		5.5		3,413	946
Phitsanulok	50		61	0.9	\$ 193.3	2.9	4.1	3.9	2,960	753
Phichit	27	3.1			4.188.2		2.0		712	407
Phetchabun	17	9.1			5.478.0		1.2		822	761
Nakhon Sawan	13	3.6				11.4	16.0	15.4	13,342	998
Subtotal				-		15.6	20.5		16,757	892
Total	,									
COLUMN TERMINATION TO I THE	9	3.3			1,384.4	0.2	2.0	10	CO 473	32
Phase	42	5.3			1,565.1		77			844
I amount	17	1.9		1.1	928.2		4.0			25.3
Direct	100	1.7	2.2		200.0		2.2			210
Cubbalbal	200	2.5			3,373.3		3.4	3.7		2770
The second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of th	12	4.1		4.1	3,878.9		0,8			200
1	43	5.1			5,193.3		3.1			372
1	1.5	1.7		1.6	1,192.5		0,3	0.2	67.	100
Anapateng rues	,				•	10.0	13.1			10//
13			10	-	928.2		1.7		733	844
Lampaing	70				1.037.3		0.1	0,1		943
Tak	9	CT				1.6	1.8			851
Total										
1.4 Fills Beats (41,170)	77	4.7			3,858,0		4.3			CCT'T
Chang Mai	100						1.7			7/
Test	46	1.5	1.9	1.1	1.037.3		6.0			\$ 1.00 m
Kamohang Phat	70						1.0			192
Nakhon Sawan	4	3.7			0,4/6,0	7.3	8.8	10.5	4,933	468
Total			,							
1.5 Sakae Krang Basin (3,240)				1.6			0.2	0.1		745
Kamphaeng Phet	7		8.0			6.0	1.9		1,315	761
Nakhon Sawan	\$ 18	00					6.0			277
Othai Thani	3						0.6		1,529	699
1 C B L. De. L. (10 180)										ŗ
Total	10		4.4			0.4	2.0	0.5		1/1
Dheeshahan	72	9.1								
Loches	8									
Coreland	11			5.7	1,684.2				1,654	
	7	6.4						ľ		
Tier			,	•		10.3		76.0	0,430	401
1000										

Table 3.2.18 Freshwater Eish Condition in 1995 (2)

	Area		Provincial Are	d Area Level	,		-	Basin Area Level		
Basin and Province	Rate	No. of Household		Arcs	Product	No. of Household	No. of Ponds	Area	Product	Yield
	9	(10³)	(10,)	(10 ³ Rai)	(Tons)	(10°)	(10)	(10 ³ Rai)	(Tons)	(Kg/Rai)
2. Lower Chao Phraya Basin (21,120)			1		•		6			•
Kamphaeng Phet	7	1.7	2.3	1.0	1,192.5	1.0	0.7	7.0	63	(4)
Nakhon Sawan	57	3.7	8.0	7.2	5,478.0	2.1	9'4	4.1	3,122	761
Uthei Theni	34	2.2	2.6	1.3	360.3	0.7	6.0	0.4	123	77.2
Chainat	100	2.6	3.1	2.2	1,574.0	2.6	3.1	2.2	1,574	715
Phetchahun	3	1,6	11.5	10.3	4,188.2	6'0	0.3	0.3	126	407
Looburi	S	1.9	2.8	4.1	3,316.8	1.0	1.4	2.1	1,658	508
Saraburi	23	2.6	2.6	5.7	1,684.2	9'0	9.0	1.3	387	295
Sineburi	180	1.4	2.6	1.6	409.6	1.4	2.6	1.6	410	250
Ang Thong	100	3.4	6.7	4.3	1,341.9		6.7	4.3	1,342	312
Sunhanburi	89	6.7		53.1	53,553.7	0'9	-	45.5	47,663	1,048
Avutthava	68	6.4	8.7	23.9	5,313.3	-	8,1	22.2	4,941	222
Pathum Thani	100	2.4	3.3	7.6	3,875.8	2.4	3.3	9.7	3,876	400
Nathon Pathom	92	2.5	6.2	23.7	20,670.6	2.3	5.7	21.8	19,017	872
Nonthaburi	100	9.0	0.0	1.1	8,274.8		0.9	1.1	8.275	7,523
Bandkok	100	0.2	5'0	3.4	22,891.0	0.2	0.5	3.4	22,891	6,733
Samul Prakan	100	5.7	•	153.0	31,388.8		•	153.0	31,389	202
Samut Sakhon	83	2.1	2.6	41.0	12,738.7	1.7	2.2	34.0	10,573	311
Chachoenasao	9	1.8	2.9	34.6	8,444.6	0.1	0.2	2.1	507	24
Kanchanaburi	10	3.7	2.6	4.1	730.1	4.0	0.3	9.0	73	178
Oran/total			-	£	•	37.5	41.4	309.7	158.029.7	510
3. Kok and Ing Basin (9,390)										
(C) 3.1 Kok Basin (4,940)			1	•						
Chiang Mai	10	4.7	5.6	3.4	0.858,E		0.0	6.0	386	1,135
Chiang Rai	SC	0.6	13.4	10.1	2,253.5		6.7	5.1	1.127	22
Total		•	-		•	5.0	7.3	5.4	1,513	281
3.2 lng Basin (4,450)									,	į
Chiang Rai	30	0.4	-	7.07	4,233.3		0,4	3.01	9/9	77
Phayao	58	5.3	4.9	4.4	1,565.1		3.7	2.6	806	356
Total		1	-	-	•	5.8	7.7	5.6	1,584	284
G. A. Albahal		•	1	i	•	10.7	15.0	11.0	79V T	**

Remark: * " Data are derived from statistical report of 1996 (Ayuthaya, Kanchanaburi)



CHAPTER 4.

WATER RESOURCES DEVELOPMENT AND MANAGEMENT IN THE UPPER CHAO PHRAYA BASIN

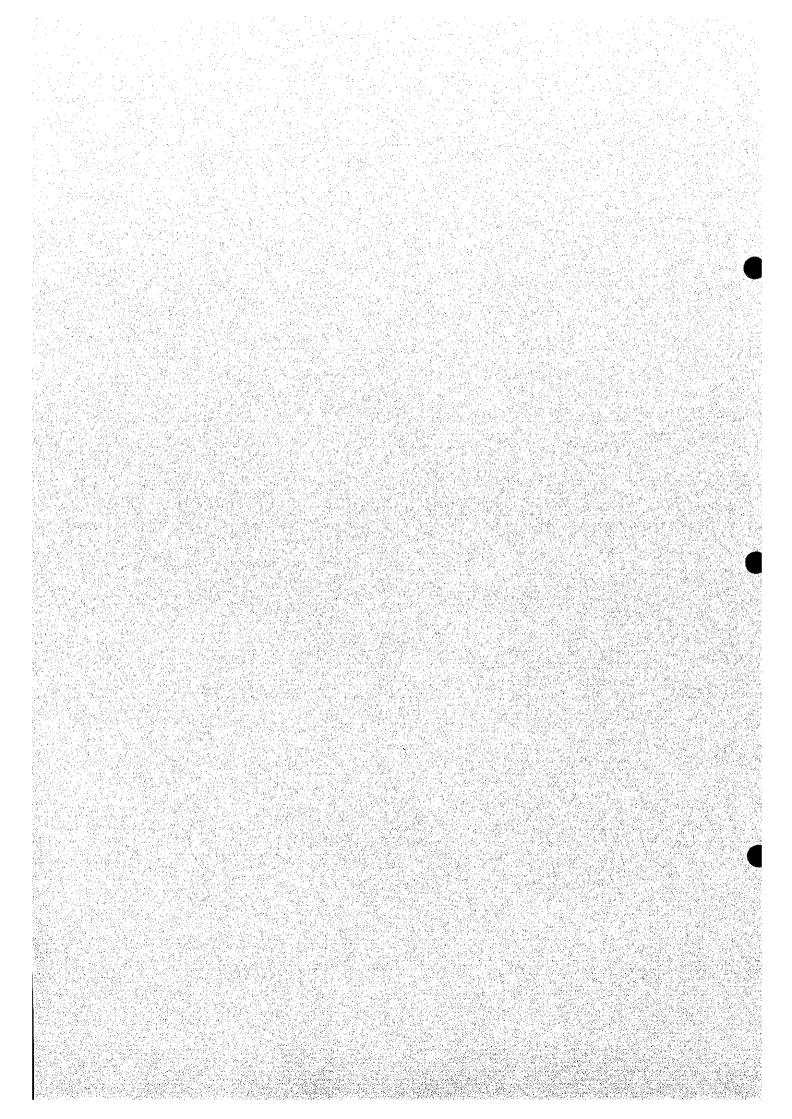


Table 4.1.1 Potential Surface Water Resources in River Basins of Thailand

1. Chao Phraya Basin 34,330 1,240 9,160 11,550 336 9,619 1,8 Mae Nam Yom 23,620 1,120 2,960 3,610 153 98 1,0 Mae Nam Wang 10,790 1,050 1,100 1,140 106 198 47 Mae Nam Ping 33,900 1,060 7,970 7,260 214 14,107 2,0	-
(Km²) ① Rainfall (mm) (MCM) Yield(mm) ②/① (MCM) (10° 1. Chao Phraya Basin 34,330 1,240 9,160 11,550 336 9,619 1,8 Mae Nam Yom 23,620 1,120 2,960 3,610 153 98 1,0 Mae Nam Wang 10,790 1,050 1,100 1,140 106 198 47 Mae Nam Ping 33,900 1,060 7,970 7,260 214 14,107 2,0	
1. Chao Phraya Basin 34,330 1,240 9,160 11,550 336 9,619 1,8 Mae Nam Yom 23,620 1,120 2,960 3,610 153 98 1,0 Mae Nam Wang 10,790 1,050 1,100 1,140 106 198 47 Mae Nam Ping 33,900 1,060 7,970 7,260 214 14,107 2,0	cz
Mae Nam Nan 34,330 1,240 9,160 11,550 336 9,619 1,8 Mae Nam Yom 23,620 1,120 2,960 3,610 153 98 1,0 Mae Nam Wang 10,790 1,050 1,100 1,140 106 198 47 Mae Nam Ping 33,900 1,060 7,970 7,260 214 14,107 2,0	rai)
Mae Nam Yom 23,620 1,120 2,960 3,610 153 98 1,0 Mae Nam Wang 10,790 1,050 1,100 1,140 106 198 47 Mae Nam Ping 33,900 1,060 7,970 7,260 214 14,107 2,0	
Mae Nam Wang 10,790 1,050 1,100 1,140 106 198 47 Mae Nam Ping 33,900 1,060 7,970 7,260 214 14,107 2,0	43
Mae Nam Ping 33,900 1,060 7,970 7,260 214 14,107 2,0	74
	/6
Mae Nam Sakae Krang 5 190 1 240 1 300 1 300 251 162 51	43
	6
Mae Nam Pasak 16,290 1,160 2,980 2,980 183 116 75	
Mae Nam Tha Chin 13,680 1,200 2,500 2,500 183 15 2,3	85
Chao Phraya Delta 21,130 1,200 2,000 2,000 99 33 7,9	89
Subtotal 157,930 29,970 32,340 205 24,348 17,	l 43
2. Northeast Basin	
Mae Nam Chi 49,480 1,200 11,190 - 226 4,271 2,0	86
Mae Nam Man 69,700 1,200 21,090 - 303 4,271 1,8	77
Subtotal 119,180 - 32,280 32,280 271 8,542 3,9	63
3. Mekong & Salaween Basin	
Mae Nam Khong 57,420 1,500 19,360 - 337 1,528 1,4	52
Mae Nam Kok 7,900 11,460 5,280 - 668 30 54	5
Mae Nam Salaween 17,900 1,330 8,570 - 479 24 17	7
Subtotal 8,320 - 33,210 33,210 399 1,582 2,1	74
4. West Coast Basin	
Mae Nam Mae Khlong 30,840 1,150 10,820 - 351 26,781 3,1	96
Mae Nam Phetcheburi 5,600 1,100 1,500 - 268 750 40	7
West Coast 4,750 1,080 1,410 - 209 525 37	7
Subtotal 43,190 - 13,730 13,730 318 28,056 3,9	80
5. East Coast Basin	
Mae Nam Prachinburi 10,480 1,700 5,270 - 503 39 62	1
Mae Nam Bang Pakong 7,980 1,360 3,710 - 465 74 1,3	53
Tonele Sap 4,150 1,190 6,270 - 1,511 96 11	
Eastern Coast 13,830 1,980 11,110 - 803 565 42	7
Subtotal 36,440 - 26,360 26,360 723 774 2,5	20
5. Southern Basin	
South-East Coast 26,350 2,250 23,270 - 883 5 1,7	74
Mae Nam Tapi 12,230 1,550 17,380 - 1,421 5,643 27	1
Songkhla Lake	4
Mae Nam Pattani 3,860 1,800 2,740 - 710 1,144 27	
South West Coast 21,170 2,580 25,540 - 1,206 40 46	2
Subtotal 72,110 - 73,830 73,830 1,024 6,858 3,62	54
Total 512,070 - 209,380 211,750 414 70,160 33,4	34

^{*} Based on Water Resources Development Study for 25 River Basins by NESDB and its Review.

Table 4.1.2. Area, Population, Land Use, Water Resources, Irrigation and GBP in the Study Area

Item	·	Upper		استبره مناسبي جريب				Lower Chao	
·	Nam	Ping	Wang	Yom	sakae Kran	Pasak	Total	Phraya	Ing
1. Total Area (Km²)	34,330	33,900	10,790	23,620	5,190	16,290	124,120	33,810	15,000
2. Population (10 ³)									
1994	2,344	2,376	661	1,995	435	1,665	9,476	12,328	1,454
1996	2,370	2,430	670	2,000	440	1,680	9,590	12,540	1,500
2006	2,710	3,070	740	2,160	490	1,870	11,040	13,200	2,170
2016	3,080	3,870	820	2,330	540	2,080	12,720	13,890	3,120
3. Land Use in									
1993 (10 ³ rai)									
Forest land	6,404	12,699	4,451	5,216	748	1,436	30,954	2,063	3,804
Farm land	6,843	4,135	955	4,801	1,628	5,448	23,810	12,283	2,434
Other land	8,200	4,381	1,398	4,766	882	3,301	22,928	6,776	3,154
Total	21,447	21,215	6,804	14,783	3,258	10,185	77,692	21,122	9,392
4. Water Resources (MCM)					· .				
Average for 1974~84	11,550	7,260	1,140	3,610	1,300	2,980	27,840	4,500	8,250
Average for 1985~96	7,850	6,380	890	3,260	1,100	2,530	22,010	4,000	7,590
5. Irrigation	·						÷. ÷.		:
Wet Season Area(103 rai)	2,100	1,880	-530	970	580	560	6,620	7,500	1,040
Intensity (%)	31	45	56	20	36	19	28	63	.43
Dry Season Area(10 ³ rai)	710	420	80	190	80	60	1,540	3,200	0
Intensity (%)	10	10	8	4	5	1	6	26	0
6. GBP (10° Baht)									
1994	43.0	70.2	18.5	36.6	9.6	59.6	237.5	1.505	25.3
1996	47.0	80.2	26.6	39.9	10.9	65.1	263.7	1.720	28.2
2006	73.0	156.4	35.3	62.0	20.6	101.0	448.2	3.352	48.4
2016	113.3	304.8	60.4	96.3	38.8	156.7	770.5	6.532	83.0
7. Per Capita GBP (10 ³ Baht)									
1994	18.4	29.6	27.9	18.3	22.1	35.8	25.1	122.1	17.4
1996	19.8	33.0	30.7	20.0	24.8	38.7	27.5	137.1	18.8
2006	26.9	50.9	47.6	28.7	42.0	54.0	40.6	253.9	22.3
2016	36.8	78.8	73.7	41.3	71.8	75.4	60.6	470.3	26.6

Table 4.1.3 Outline of Bhumibol and Sirikit Dams

Dimension	Unit	Bhumibol Dam	Sirikit Dam
Reservoir			
Chatchment Area	km ²	26,100	13,130
Average Annual Rainfall	mm	1,100	1,200
Average Annual Inflow	MCM	5,250	5,120
Maximum Annual Inflow	мсм	8,707	8,574
Minimum Annual Inflow	мсм	2,276	3,119
High Water Level	m	260	166
Full Water Level	m	260	162
Low Water Level	m	213	123
Storage Capacity at HWL	мсм	13,462	10,503
Storage Capacity at FWL	мсм	13,462	9,510
Storage Capacity at LWL	мсм	3,800	2,850
Active Capacity	мсм	9,660	6,660
Reservoir Surface Area	km²	318	260
Structure			
Dam Type		Arch	Earth Fill
Dam Crest Elevation	m, MSL	261	169
Dam Height	m	154	113.6
Dam Length	m	486	800
Spillway Capacity	m ³ /sec	6,000	3,250
Average Outflow for Power	m³/sec	616	500
Effective Power Head	m	100	85
Power Plant Capacity	MW	700×6+115=535	125×4=500
Produced Annual Energy	GWh	1,560	1,200

Table 4.1.4 Summary of Existing and Future Irrigation Area

(Unit; 103 rai)

<u> </u>		Ewistina	<u>-</u>		Entre	T	(Unit; 10 ³ rai)					
Basin	337.4	Existing	Т-4-1	337.4	Future	T-4-1	Increase Tot					
1 77 - 27	Wet	Dry	Total	Wet	Dry	Total	Wet	Dry	Total			
1. Upper Nan	60.0	172	96.3	256.1	02.2	240.4	1071	76.1	262.2			
L/M	69.0	17.2	86.2	256.1	93.3	349.4	187.1	76.1	263.2			
SSIP	170.1	23.3	193.4	229.3 131.6	29.2	258.5	59.2	5.9	65.1			
Pump	66.0	7.1	73.1		26.2	157.8	65.6	19.1	84.7			
Total	305.1	47.6	352.7	617.0	148.7	765.7	311.9	101.1	413.0			
2. Lower Nan	40004	505.5	4 800 0	0.455.4	1.040.6	0.501.5	4 400 0	500.0	4 504 0			
L/M	1,257.1	525.7	1,782.8	2,455.1	1,049.6	3,504.7	1,198.0	523.9	1,721.9			
SSIP	148.3	14.9	163.2	386.0	38.7	424.7	237.7	23.8	261.5			
Pump	391.6	122.4	514.0	685.6	342.8	1,028.4	294.0	220.4	514.4			
Total	1,797.0	663.0	2,460.0	3,526.7	1,431.1	4,957.8	1,729.7	768.1	2,497.8			
3. Upper Ping												
L/M	755.2	222.5	977.7	887.7	310.9	1,198.6	132.5	88.4	220.9			
SSIP	348.9	34.9	383.8	980.4	98.1	1,078.5	631.5	63.2	694.7			
Pump	46.0	4.6	50.6	58.8	11.7	70.5	12.8	7.1	19.9			
Total	1,150.1	262.0	1,412.1	1,926.9	420.7	2,347.6	776.8	158.7	935.5			
4. Lower Ping		.										
L/M	544.5	140.4	684.9	941.2	282.5	1,223.7	396.7	142.1	538.8			
SSIP	79.3	8.1	87.4	167.8	16.9	184.7	88.5	8.8	97.3			
Pump	104.5	10.4	114.9	154.3	77.2	231.5	4 9.8	66.8	116.6			
Total	728.3	158.9	887.2	1,263.3	376.6	1,639.9	535.0	217.7	752.7			
5. Yom								2.3				
L/M	692.5	160.8	853.3	1,028.4	353.7	1,382.1	335.9	192.9	528.8			
SSIP	200.6	20.2	220.8	728.6	73.0	801.6	528.0	52.8	580.8			
Pump	76.3	7.7	84.0	110.8	51.9	162.7	34.5	44.2	78.7			
Total	969.4	188.7	1,158.1	1,867.8	478.6	2,346.4	898.4	289.9	1,188.3			
6. Wang												
L/M	304.2	60.8	365.0	474.9	94.9	569.8	170.7	34.1	204.8			
SSIP	175.3	17.7	193.0	327.3	32.9	360.2	152.0	15.2	167.2			
Pump	54.3	5.5	59.8	77.7	15.6	93.3	23.4	10.1	33.5			
Total	533.8	84.0	617.8	879.9	143.4	1,023.3	346.1	59.4	405.5			
7. Sakae Krang					. *							
L/M	277.2	54.0	331.2	408.3	102.0	510.3	131.1	48.0	179.1			
SSIP	293.8	29.4	323.2	413.8	41.4	455.2	120.0	12.0	132.0			
Pump	7.0	1.4	8.4	13.5	2.8	16.3	6.5	1.4	7.9			
Total	578.0	84.8	662.8	835.6	146.2	981.8	257.6	61.4	319.0			
8. Total (1~7)												
L/M	3,962.0	1,193.9	5,155.9	6,514.0	2,299.4	8,813.4	2,552.0	1,105.5	3,657.5			
SSIP	1,354.0	136.0	1,490.0	3,170.9	317.7	3,488.6	1,816.9	181.7	1,998.6			
Pump	745.7	159.1	904.8	1,232.3	528.2	1,760.5	486.6	369.1	855.7			
Total	6,061.7	1,489.0	7,550.7	10,917.2	3,145.3	14,062.5	4,855.5	1,656.3	6,511.8			
9. Pasak			V									
L/M	359.9	40.8	400.7	723.8	114.2	838.0	363.9	73.4	437.3			
SSIP	156.1	15.7	171.8	396.1	39.7	435.8	240.0	24.0	264.0			
Pump	40.4	4.0	44.4	64.4	12.8	77.2	24.0	8.8	32.8			
Total	556.4	60.5	616.9	1,184.3	166.7	1,351.0	627.9	106.2	734.1			
10. Grand total						, , , , , ,						
L/M	4,259.6	1,222.2	5,481.8	7,199.5	2,407.5	9,607.0	2,939.9	1,185.3	4,125.2			
SSIP	1,572.4	164.2	1,736.6	3,629.3	369.9	3,999.2	2,056.9	205.7	2,262.6			
Pump	786.1	163.1	949.2	1,272.7	534.6	1,807.3	486.6	371.5	858.1			
	. , , , , , , , ,											

The existing and future irrigation area is classified into the large/medium and small scale projects as well as pumping projects in each basin and summarized as shown in the following Table.

The existing total irrigation area in the upper Chao Phraya including the Pasak basin is 6.6 million rai in wet season and 1.5 million rai in dry season which will largely increase in future to 12.1 million rai and 3.3 million rai respectively.

The dry season irrigation intensity is estimated by the following assumption:

- 30 to 50% in the large scale due to sufficient available dry season water in the large reservoir and river
- 20 to 30% in the medium scale due to moderate available dry season water in the reservoir and river
- 10% in the small scale due to limited river and reservoir water
- 30 to 50% for pumping project due to sufficient available water in mainstream by the large reservoirs in the Sirikit, Bhumibol and other large dams

Improved Irrigation Intensity in Future

(Unit Area 103 rai, Intensity %)

Item	Nam			Ping			·		Sakae			Grand
	Upper	Lower	Sub- total	Upper	Lower	Sub- total	Yom	Wang	Krang	Total	Pasak	Total
(1) Farm Area	1,120	5,720	6,840	2,000	2,100	4,100	4,800	950	1,630	18,360	5,450	23,810
(2) Existing Irrigation											i	
Area in Wet	305	1,797	2,102	1,150	728	1,878	969	534	578	6,062	556	6,618
Area in Dry	48	663	711	262	159	421	189	84	85	1,489	61,	1,550
Intensity in Wet	27	31	31	58	35	46	20	56	35	33	10	- 28
Intensity in Dry	4	12	10	13	8	10	4	9	5	8	1	7
(3) Future Irrigation												
Area in Wet	617.	3,527	4,144	1,927	1,263	3,190	1,868	880	836	10,918	1,184	12,102
Area in Dry	149	1,431	1,580	421	377	798	479	143	146	3,145	167	3,312
Intensity in Wet	55	62	61	96	60	78	39	93	51	59	22	51
Intensity in Dry	13	25	23	21	18	19	10	15	9	17	3	14

Table 4.1.5 Existing and Future Irrigation Projects in Nan Basin (1)

Irrigation Project . Upper Nan Basin .1 Upper Nan Sub-basin (1) Upper Nan Dam	Area (sq.km)		e Runoff (Capacity		$(10^3 rai)$	1		$(10^3 rai)$	
.1 Upper Nan Sub-basin	(sq.km)		· -								70 - *
.1 Upper Nan Sub-basin		Wet	Dry	Total	(MCM)	Wet	Dry	Total	Wet	Dry	Total
==						1		ĺ	į		
(1) Upper Nan Dam		£100	1000	6000	100.0	أمما	امما		30.0	150	45.0
` '	1,200.0	510.0	170.0	680.0	100.0	0.0	0.0	0.0		15.0	
(2) Nam Kon Weir	140.0	66.2	14.7	80.9	0.0	3.0	0.9	3.9	3,0	0.9	3.9
(3) Nam Pua Weir	150.0	70.4	15.7	86.1	0.0	11.2	3.4	14.6	11.2	3.4	14.6
(4) Nam Khwang Dam	89.0	64.0	16.0	80.0	7.1	0.0	0.0	0.0	5.5	2.2	7.7
(5) Chao Weir	-	-	-	•	0.0	5.0	1.5	6,5	5.0	1.5	6.5 5.2
(6) Huai Nam Bue Weir	. •	-		•	0.0	4.0	1.2 2.9	5.2	4.0	1.2 4.3	46.8
(7) SSIP	-		-	-	0.0	28.5	1.8	31.4	42.5	3.0	
(8) Pump Irrigation		10510		1 205 0		9.2	**********	11.0 72.6	15.2		18.2 147.9
Sub-total	2,220.0	1,051.0	234.0	1,285.0	107.1	60.9	11.7	/2.0	116.4	31.5	17/.7
.2 Nam Yao 1 Sub-basin	270.0	145.0	25.0	170.0	30.0	0.0	0.0	0.0	30.0	15.0	45.0
(1) Nam Yao Dam (KIN)	370.0			370.0	0.0	0.0	0.0	0.0	6.0	3.0	9.0
(2) Tha Wang Pha Weir (KIN)	770.0	320.0	50.0	3/0.0	0.0	3.9	0.0	4.3	3.9	0.4	4.3
(3) SSIP	-		- 1				0.4			1.5	9.2
(4) Pump Irrigation	7046	222.0	67.0	200 n	0.0 30.0	1.0	0.2	1.2 5.5	7.7 47.6	19.9	67.5
Sub-total 3 Nan Part 2 Sub-basin	784.5	323.0	57.0	380.0	30.0	4.9	0,0	3.3	77.0	17.7	
(1) Huai Head Dam	40.0	4,6	1.3	5.9	* 4.1	7.7	1.5	9.2	7.7	2.3	10.0
` '	75.0	4.0	1.3	2.9	0.0	0.0	0.0	0.0	4.5	1.8	6.3
(2) Nam Rim (3) Thong Noi Weir	75.0 5,385.0	-		2,984.0	9.6	0.0	0.0	0.0	22.8	9.1	31.9
(3) Thong Noi Weir (4) Nong Nok Weir	8,834.0	-	ļ	5,203.0	6.9	0.0	0.0	0.0	23.9	9.1	33.5
(5) Nam Kaen Dam	0,034.0	Ĩ	•	0,000	0.0	4.0	1.2	5.2	4.0	1.2	5.2
(6) Nam Pa Klang Dam			_		0.0	3.5	1.1	4.6	3.5	1.1	4.6
(7) Water Economic Project (SSIP)			_	_	0.0	62.3	12.5	74.8	62.3	12.5	74.8
(8) SSIP				_	0.0	34.3	3.4	37.7	34.3	3.4	37.7
(9) Pump Irrigation		_			0.0	35.5	1.0	36.5	41.5	8.3	49.8
Sub-total	1,570.0	519.0	52.0	571.0	20.6	147.3	20.7	168.0	204.5	49.2	253.7
.4 Nam Yao 2 Sub-basin	1 20.000					277.0					
(1) Nam YaoDam (W.S)	385.0		_		15.3	0.0	0.0	0.0	0.0	0.0	0.0
(2) Nam Muab Dam		_	_	_	* 0.6	3.6	1.1	4.7	3.6	1.1	4.7
(3) SSIP		_		٠.	0.0	10.8	1.1	11.9	24.3	2.4	26.7
(4) Pump Irrigation	-	_	_	-	0.0	0.0	0.0	0.0	2.7	0.5	3.2
Sub-total	619.0	496.0	44.0	540.0	15.9	14.4	2.2	16.6	30.6	4.1	34.7
l.5 Nam Samun, Nam Sa Sub-basin	ļ		······································					***************************************			
(1) Nam Samun Weir	180.0	25.8	7.4	33.2	* 13.5	10.0	2.0	12.0	10.0	2.0	12.0
(2) Nam Samua Dam	180.0	-	-	155.0	13.5	0.0	0.0	0.0	12.0	3.6	15.6
(3) Mae Khaning Dam	229.0	26.4	7.6	34.0	62.0	0.0	0.0	0.0	13.5	4.1	17.6
(4) Mae Hi Reservoir	37.1	4.3	1.2	5.5	15.0	0.0	0.0	0.0	2.1	0.6	2.7
(5) Nam Sa Weir	474.0	54.7	15.7	70.4	0.0	11.0	2.2	13.2	11.0	2.2	13.2
(6) Nam Sa Dam	689.0	55.9	14.8	70.7	417.8	0.0	0.0	0.0	29.8	8.9	38.7
(7) SSIP	-	-	-	.	0.0	2.5	0.3	2.8	4.6	0.5	5.1
(8) Pump Irrigation	-	<u> </u> -			0.0	1.3	0.3	1.6	4.5	0.9	5.4
Sub-total	1,350.0	156.0	45.0	201.0	521.8	24.8	4.7	29.5	87.5	22.8	110.3
1.6 Nam Wa Sub-basin]	[100
(1) Upper Nam Wa Dam (LHP)	951.0	478.0	95.0	573.0	430.8	0.0	0.0	0.0	0.0	0.0	0.0
(2) Nam Wa Dam (LHP)	2,058.0	1,352.5	207.0	1,559.5	52.0	0.0	0.0	0.0	0.0	0.0	0.0
(3) SSIP	-	- ا	-	-	0.0	19.4	1.9	21.3	27.4	2.7	30.1
(4) Pump Irrigation	ļ	<u></u>		<u> </u>	0.0	15.5	3.1	18.6	24.5	4.9	29.4
Sub-total	2,180.0	1,400.0	222.0	1,622.0	482.8	34.9	5.0	39.9	51.9	7.6	59.5
1.7 Nam Haeng Sub-basin	1			<u>.</u> .			:				
(1) Nam Haeng Dam	277.0	28.0	6.4	34.4		6.0	1.2	7.2	6.0	1.2	7.2
(2) SSIP	-	-	-	1 .	0.0	8.0	0.8	8.8	15.0	1.5	16.5
(3) Pump Irrigation					0.0	1.5	0.3	1.8	16.5	3.3	19.8
Sub-total	1,050.0	102.0	15.0	117.0	10.2	15.5	2.3	17.8	37.5	6.0	43.5
1.8 Nan Part 3 Sub-basin									ا ا		
(1) Huai Lod Reservoir	28.1	3.3	0.9	4.2	12.0	0.0	0.0	0.0	1.6	0.6	2.2
(2) Nam Muab Reservoir	56.0	14.0	0,3	17.0	6.0	0.0	0.0	0.0	5.4	1.6	7.0
(3) SSIP	!	-	1 . •	1 -	0.0	0.4	0.0	0.4	15.0	1.5	16.5
(4) Pump Irrigation	 				0.0	2.0	0.4	2.4	19.0	3.8	22.8
Sub-total Upper Nan Total (1.1~1.8)	3,370.0 13,143.5	970.0 5,017.0	128.0 797.0	1,098.0 5,814.0	1,206.4	305.1	47.6	2.8 352.7	41.0 617.0	7.6 148.7	48.6 765.7

Table 4.1.5 Existing and Future Irrigation Projects in Nan Basin (2)

Irrigation Project	Drainage Area	Averag	e Runoff (MCM)	Reservoir Capacity	Existing	g Irrigatio (10 ³ rai)	n Area	Future	Irrigation (10 ³ rai)	Агеа
III. Banda I rojeci	(sq.km)	Wet	Dry	Total	(MCM)	Wet	Dry	Total	Wet	Dry	Total
2. Lower Nan Basin											
2.1 Nam Pat Sub-basin	•						1			-	
(1) Nam Pat Weir	680.0	97.5	32.4	129.9	0.0	0.0	0.0	0.0	2.7	1.4	4.1
(2) SSIP	-	-	-	-	0.0	19.2	1.9	21.1	31.8	3.2	35.0
(3) Pump Irrigation		_			0.0	13.0	4.3	17.3	31.5	15.7	47.2
Sub-total	1,960.0	195.0	25.0	220,0	0.0	32.2	6.2	38.4	66.0	20.3	86.3
2.2 Nan 4 Sub-basin		ļ								i	
(1) Mae Choei Dam	17.9	5.5	1.3	6.8	. 4.3	0.0	0.0	0.0	3.3	1.3	4.6
(2) Naresuan Dam (Phitsanulok)	-	-	-	-	0.0	94.7	56.8	151.5	94.7	56.8	151.5
(3) Phlai Chum Phon (-do -)	-	-	-	-	0.0	218.0	130.8	348.8	218.0	130.8	348.8
(4) Tha Bua (-do-)	-	-[-	-	0.0	168.4	101.0	269.4	168.4	101.0	269.4
(5) Dong Setti (-do -)	-	•		-	0.0	186.0	111.6	297.6	186.0	111.6	297.6
(6) Nam Rit	-	-	-	-	0.0	39.0	11.7	50.7	39.0	11.7	50.7
(7) Bung Maai	-	-	•		0.0	20.0	6.0	26.0	20.0	6.0	26.0
(8) MSIP Package (8)			-	-	0.0	134.0	26.8	160.8	134.0	26.8	160.8 92.1
(9) SSIP	-	-		-	0.0	16.7	1.7	18.4	83.7	8.4 125.9	. 92.1 377.7
(10) Pump Irrigation	2 220 0			1 030 0	0.0	228.8	68.6 515.0	297.4 1,620.6	251.8 1,198.9	580.3	3/1./ 1,779.2
Sub-total	3,230.0	990.0	230.0	1,220.0	4.3	1,105.6	212.0	1,020.0	1.130.3	200.3	1,//7.2
2.3 Nam Phak Sub-basin (1) Huai Lhek Dam	16.4	1.6	0.2	1.8	3.4	0.0	0.0	0.0	2.5	0.8	3.3
	10.4	1.0	. 0.2	1.0	0.0	0.0	0.0	0.0	1.5	0.3	1.7
(2) SSIP	٠	-	_	_	0.0	2.5	0.8	3.3	11.0	5.5	16.5
(3) Pump Irrigation Sub-total	1,000.0	323.0	64.0	387.0	3.4	2.5	0.8	3,3	15.0	6.5	21.5
2.4 Khlong Tron Sub-basin	1,000.0	323.0		307.0					15.0		
(1) Khlong Tron Dam	265.0	32.1	5.9	38.0	52.0	0.0	0.0	0.0	0.0	0.0	0.0
(2) SSIP	203.0	32.1		50.0	0.0	4.5	0.5	5.0	6.1	0.6	6.7
(3) Pump Irrigation		_		_	0.0	9.1	3.0	12.1	11.0	5.5	16.5
Sub-total	1,270.0	133.0	24.0	157.0	52.0	13.6	3.5	17.1	17.1	6.1	23.2
2.5 Khwae Noi Sub-basin											
(1) Khwae Noi Dam	4,254.0	1,319.0	297.0	1,616.0	769.0	0.0	0.0	0.0	343.0	171.5	514.5
(2) Huai Nam Khlung Dam	148.2	_	_	37.0	12.4	0.0	0.0	0.0	24.5	7.4	31.9
(3) Khiong Chomphu Dam	364.3		_'	119.0	43.0	0.0	0.0	0.0	37.0	11.1	48.1
(4) Huai Aom Sin Weir	146.8	51.6	7.0	58.6	0.0	0.0	0.0	0.0	10.0	5.0	15.0
(5) MSIP Package (8)		-	-	-	0.0	88.4	17.7	106.1	88.4	17.7	106.1
(6) SSIP	-	-	-	-	0.0	28.5	2.9	31.4	61.1	6.1	67.2
(7) Pump Irrigation	-	_	-	-	0.0	41.7	13.8	55.5	51.2	25.6	76.8
Sub-total	4,680.0	1,172.0	159.0	1,331.0	824.4	158.6	34.4	193.0	615.2	244.4	859.6
2.6 Wang Thong Sub-basin											
(1) Nam Khek Dam	854.0	-	-	489.0	0.0	0.0	0.0	0.0	67.7	33.9	101.6
(2) Nam Chuang	186.5	54.6	13.6	68.2	345.6	0.0	0.0	0.0	5.3	1.1	6.4
(3) Khlong Wang Sai]		-	* 56.8	10.0	3.0	13.0	10.0	3.0	13.0
(4) Wang Cha Nang Weir		<u> </u>		-	0.0	6.0	1.8	7.8	6.0	1.8	7.8
(5) SSIP	-	-		-	0.0	20.2 14.1	2.0 4.7	22.2 18.8	20.2 29.4	2.0 14.7	22.2 44.1
(6) Pump Irrigation	2 2000	725.0	67.0	792.0	402.4	50.3	11.5	61.8	138.6	56.5	195.1
Sub-total	2,300.0	/23.0	07.0	192.0	402.4	20.3		01.0	130.0	30,3	
2.7 Lower Nan Sub-basin]	0.0	292.6	58.5	351.1	494.6	98.9	593.5
(1) MSIP Package (41) (2) SSIP	_]] -	l ·	0.0	59.2	5.9	65.1	181.6	18.2	199.8
(3) Pump Irrigation	_				0.0	82.4	27.2	109.6	99.7	49.9	793.3
Sub-total	6,920.0	673.0	519.0	1,192.0	0.0	434.2	91.6	525.8	775.9	167.0	942.9
Lower Nan Total (2.1~2.7)	21,360.0	4,211.0		5,299.0	1,286.5	1,797.0		2,460.0	2,826.7		3,907.8
3. Along Nan Main River	٠.٥٥٥٠٥	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	-,		 	.,		T	1		
3.1 Naresuan Weir, Left Bank	25,300.0	2,235.0	2,412.0	4,647.0	0.0	0.0	0.0	0.0	500.0	250.0	750.0
3.2 DEDP Pump Project				_	0.0	0.0	0.0	0.0	200.0	100.0	300.0
		1 2 2 2 2							}		1,050.0
Nan Main River Total (3.1, 3.2)	25,300.0	2,235.0	2,412.0	4,647.0	0.0	0.0	0.0	0.0	700.0	350.0	1,0000.0

Remark, (1) * ... Existing reservoir capacity

⁽²⁾ Total reservoir capacity of the upper Nan is 28.4 MCM in the existing and 1,206.4 MCM in future.

⁽³⁾ Total reservoir capacity of the lower Nan is 56.8 MCM in the existing and 1,286.5 MCM in future.

Table 4.1.6 Existing and Future Irrigation Projects in Ping Basin (1)

	Reservoir Capacity	Evictina I	rrigation Area	(103 +20	Fintura In-	igation Area (10 ³ rai)
Project	(MCM)	Wet	Dry	Total	Wet	Dry	Total
1. Upper Ping Basin	(.T.C.171)	77-01		2 Cint			
1.1 Upper Ping				ļ			
(1) Mae Fack Weir	0.0	70.0	24.5	94.5	70.0	24.5	94.5
(2) Ban Pang Kwang Dam	4.4	0.0	0.0	0.0	4.0	1.4	5.4
(3) Mae Roem Dam	5.2	0.0	0.0	0.0	4.0	1.4	5.4
(4) MSIP	0.0 * 1.7	25.8 25.9	5.2 2.6	31.0 28.5	25.8 60.4	9.0 6.0	34.8 66.4
(5) SSIP (6) Pump	0.0	3.5	2.0 0.4	3.9	3.5	0.0	4.2
Sub-total	11.3	125.2	32.7	157.9	167.7	43.0	210.7
1.2 Mae Tang Basin							
(1) Mae Tang Weir 1	0.0	100.0	35.0	135.0	100.0	35.0	135.0
(2) Mae Tang Weir 2	0.0	48.0	16.8	64.8	48.0	16.8	64.8
(3) MSIP	0.0	16.0	3.2	19.2	16.0	5.6	21.6
(4) SSIP	* 4.8 0.0	10.0 1.0	1.0 0.1	11.0 1.1	32.5 1.0	3.3 0.2	35.8 1.2
(5) Pump Sub-total	4.8	175.0	56.1	231.1	197.5	60.9	258.4
1.3 Mae Ngad Basin		1,5.0	30.1				
(1) Mae Ngad Dam	* 265.0	30.0	10.5	40.5	30.0	10.5	40.5
(2) Mae Sa-Laum	12.0	0.0	0.0	0.0	5.0	1.8	6.8
(3) Mae Oon	14.0	0.0	0.0	0.0	6.0	2.1	8.1
(4) Mae Wan Dam	10.0	0.0	0.0 2.5	0.0 15.0	10.0 12.5	3.5 4.4	13.5 16.9
(5) MSIP (6) SSIP	0.0 * 1.8	12.5 30.2	3.0	33.2	69.2	6.9	76.1
(0) SSIP (7) Pump	0.0	0.0	0.0	0.0	09.2	0.9	0.8
Sub-total	302.8	72.7	16.0	88.7	133.4	29.3	162.7
1.4 Mae Rim Basin		1,					
(1) Mae Rim 2 Dam	66.0	0.0	0.0	0.0	8.0	2.8	10.8
(2) MSIP	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(3) SSIP	* 0.6 0.0	12.2	1.2 0.0	13.4	24.2 0.0	2.4 0.0	26.6 0.0
(4) Pump Sub-total	66.6	12.2	1.2	13.4	32.2	5.2	37.4
1.5 Ping Basin Part 2	1	†···					
(1) Mae Ping Kao Weir	0.0	44.9	15.7	60.6	44.9	15.7	60.6
(2) MSIP	* 1.2	46.3	9.3	55.6	46.3	16.2	62.5
(3) SSIP	* 5.9	16.8	1.7	18.5	67.8	6.8	74.6
(4) Pump	0.0 7.1	3.0 111.0	0.3 27.0	3.3 138.0	3.0 162.0	0.6 39.3	3.6 201.3
Sub-total 1.6 Mac Kuang Basin	1.1	111.0	27.0	130.0	162.0	39.3	201.5
(1) Mae Kuang Dam	* 263.0	175.0	61.3	236.3	175.0	61.3	236.3
(2) Mae Sa-Paud Dam	7.0	0.0	0.0	0.0	3.5	1.2	4.7
(3) MSIP	* 19.3	54.3	10.9	65.2	54.3	19.0	73.3
(4) SSIP	* 22.9	114.4	11.4	125.8	298.9	29.9	328.8
(5) Pump	0.0	5.7 349.4	0.6 84.2	6.3 433.6	6.9 5 38 .6	1.4 112.8	8.3 651.4
Sub-total 1.7 Mae Tang Basin	312.2	349.4	84.2	433.0	0.60	112.0	031.4
(1) Mae Cham Weir	0.0	0.0	0.0	0.0	16.0	5.6	21.6
(2) MSIP	0.0	5.0	1.0	6.0	5.0	1.8	6.8
(3) SSIP	* 3.3	32.2	3.2	35.4	83.2	8.3	91.5
(4) Pump	0.0	4.5	0.5	5.0	4.5	0.9	5.4
Sub-total	3.3	41.7	4.7	46.4	108.7	16.6	125.3
1.8 Mac Khan Basin	74.8	0.0	0.0	0.0	25.0	8.8	33.8
(1) Mae Khan Dam (2) MSIP	0.0	62.1	12.4	74.5	62.1	21.7	83.8
(3) SSIP	* 5.6		5.0		134.0	13.4	147.4
(4) Pump	0.0	5.5	0.5	6.0	5.5	1.1	6.6
Sub-total	80.4		17.9	135.5	226.6	45.0	271.6
1.9 Mae Klang Basin							
(1) Mae Hoi Dam	9.5		0.0	0.0	6.5	2.3	8.8
(2) MSIP	0.0		4.4 0.8		22.0 22.6	7.7 2.3	29.7 24.9
(3) SSIP (4) Pump	0.0		0.8		6.1	1.2	7.3
Sub-total	9.5	35.7	5.8		57.2	13.5	70.7
1.10 Ping Basin Part 3	<u> </u>						
(1) Mae Soi Dam	3.2		0.0		1.1	0.4	1.5
(2) Mae Tan Dam	4.0	0.0	0.0		2.4	0.8	3.2
(3) Mae Hod Dam	4.4		0.0		8.0	2.8	10.8
(4) Mae Had Weir	0.0		0.0		5.0	1.8	6.8
(5) Huai Ja-ka Dam (6) MSIP	4.0 0.0		0.0 2.6		2.5 7.3	0.9 2.6	3.4 9.9
(7) SSIP	* 1.3				97.3	9.7	107.0
(8) Pump	0.0				16.2	3.2	19.4
Sub-total	16.9				139.8	22.2	162.0

Table 4.1.6 Existing and Future Irrigation Projects in Ping Basin (2)

		Reservoir Capacity	Existing	Irrigation Area	2 (10 ³ rai)	Future Ir	rigation Area	(10 ³ rai)
LII Mare True Basin	Project							Total
(1) Huai Tang (2) Mae Lob Weir (3) Mae Coh Weir (4) Mae Chan Hao Dam (5.5 0.0 0.0 0.0 0.0 0.0 8.5 3.0 (3) Mae Chan Hao Dam (6.5 0.0 0.0 0.0 0.0 0.0 0.4 0.1 (5.5 (5.5 (5.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1.11 Mae Tun Basin	(2.2.2.2.2)						
(2) Mac Lob Weir		34.0	0.0	0.0	0.0	15.0	5.3	20.3
(g) Mac Chan Hao Dam (6.5) 0.0 0.0 0.0 0.4 0.1 (6) NSIP (7) Pump (7) 0.0 0.0 0.0 0.0 1.6 0.5 (7) MSIP (8) 839.0 36.0 7.2 43.2 36.0 12.6 (8) SSIP (7) Pump (7) 0.0 0.0 2.3 0.2 2.5 9.4 1.9 1.1 (1) MSIP (8) 84-folal (8) 85.0 64.0 10.0 74.0 135.6 29.9 1.1 (1) MSIP (9) 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.				0.0	0.0	8.5	3.0	11.5
(4) Huai Mae La Dam (5) MSP (8) SSIP (7) Sub-total (1) MSP (8) SUB-total (1) MSP (8) SUB-total (1) MSP (8) SUB-total (1) MSP (8) SUB-total (1) MSP (8) SUB-total (1) MSP (8) SUB-total (1) MSP (8) SUB-total (1) MSP (8) SUB-total (1) MSP (8) SUB-total (1) MSP (8) SUB-total (1) MSP (8) SUB-total (1) MSP (8) SUB-total (1) MSP (8) SUB-total (1) MSP (8) SUB-total (1) MSP (8) SUB-total (1) MSP (8) SUB-total (1) MSP (8) SUB-total (1) MSP (8) SUB-total (1) MSP (8) SUB-total (1) MSP (8) SUB-total (1) MSP (8) SUB-total (1) MSP (8) SUB-total (1) MSP (8) SUB-total (1) MSP (8) SUB-total (1) MSP (1) SUB-total (1) MSP (1) SUB-total (1) SUB-total (1) SUB-total (1) SUB-total (1) SUB-total (1) SUB-total (1) SUB-total (1) SUB-total (1) SUB-total (1) SUB-total (1) SUB-total (1) SUB-total (1) SUB-total (1) SUB-total (1) SUB-total (1) SUB-total (1) SUB-total (1) SUB-total (1) SUB-total (1) SUB-total (1) SUB-total (1) SUB-total (1) SUB-total (1) SUB-total (1) SUB-total (1) SUB-total (1) SUB-total (1) SUB-total (1) SUB-total (1) SUB-total (1) SUB-total (1) SUB-total (1) SUB-total (1) SUB-total (1) SUB-total (1) SUB-total (1) SUB-total (1) SUB-total (1) SUB-total (1) SUB-total (1) SUB-total (1) SUB-total (1) SUB-total (1) SUB-total (1) SUB-total (1) SUB-total (1) SUB-total (1) SUB-total (1) SUB-total (1) SUB-total (1) SUB-total (1) SUB-total (1) SUB-total (1) SUB-total (1) SUB-total (1) SUB-total (1) SUB-total (1) SUB-total (1) SUB-total (1) SUB-total (1) SUB-total (1) SUB-total (1) SUB-total (1) SUB-total (1) SUB-total (1) SUB-total (1) SUB-total (1) SUB-total (1) SUB-total (1) SUB-total (1) SUB-total (1) SUB-total (1) SUB-total (1) SUB-total (1) SUB-total (1) SUB-total (1) SUB-total (1) SUB-total (1) SUB-total (1) SUB-total (1) SUB-total (1) SUB-total (1) SUB-total (1) SUB-total (1) SUB-total (1) SUB-total (1) SUB-total (1) SUB-total (1) SUB-total (1) SUB-total (1) SUB-total (1) SUB-total (1) SUB-total (1) SUB-total (1) SUB-total (1) SUB-total (1) SUB-total (1) SUB-total (2) SUB-total (3) SUB-total (4) SUB-total (4) SUB-total (4) SUB-t				0.0	0.0	0.4	0.1	0.5
(S) MSIP		1.9	0.0	0.0	0.0	1.6	0.5	2.1
(i) SSIP		* 39.0	36.0	7.2	43.2	36.0	12.6	48.6
(i) Pump				2.6	28.3	64.7	6.5	71.2
Sub-total 86.0 64.0 10.0 74.0 135.6 29.9 1		0.0	2.3	0.2				11.3
(1) MSIP		86.0	64.0	10.0	74.0	135.6	29.9	165.5
(2) SSIP	1.12 Mae Tun Basin							
Sub-total	(1) MSIP	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sub-total 0.0 12.6 1.3 13.9 27.6 3.0	(2) SSIP	0.0		1.1			2.6	28.2
Total 900.9	(3) Pump							2.4
2. Lower Basin 2.1 Ping Basin Part 4 (1) Riusi Mac Tho 30.7 0.0 0.0 0.0 0.0 14.0 4.2 (2) Huai Chalom Dam 15.2 0.0 0.0 0.0 0.0 8.7 2.6 (4) Ban Ha Bot Dam 13.5 0.0 0.0 0.0 0.0 3.5 1.1 (5) Huai Mai Nyam Dam 8.1 0.0 0.0 0.0 0.0 3.5 1.1 (6) MSIP 0.0 37.0 7.4 44.4 37.0 11.1 (7) SSIP * 1.6 22.6 2.3 24.9 34.6 3.5 (8) Pump 0.0 11.8 1.2 13.0 14.6 7.3 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	Sub-total							30.6
2.1 Ping Basin Part 4 (1) Huai Mac Tho 30.7 0.0 0.0 0.0 0.0 14.0 4.2 2.8 4.2 2.5 (2) Huai Chalom Dam 15.2 0.0 0.0 0.0 0.0 8.4 2.5 (3) Huai Tak Dam 16.0 0.0 0.0 0.0 0.0 8.7 2.6 (4) Ban Ha Bot Dam 13.5 0.0 0.0 0.0 0.0 16.0 4.8 (5) Huai Mai Ngam Dam 8.1 0.0 0.0 0.0 0.0 3.5 1.1 (6) MSIP 0.0 37.0 7.4 4.4 37.0 11.1 (7) SSIP * 1.6 22.6 2.3 24.9 34.6 3.5 (8) Pump 0.0 11.8 1.2 13.0 14.6 7.3 3.5 (8) Pump 0.0 11.8 1.2 13.0 14.6 7.3 3.5 (8) Pump 0.0 11.8 1.2 13.0 13.6 37.1 3.2 2.4 Khong Mac Ra-Ka Basin (1) MSIP 0.0 22.0 4.4 26.4 22.0 6.6 (2) SSIP * 1.7 17.6 1.8 19.4 32.6 3.3 (3) Pump 0.0 3.2 0.3 3.5 3.2 1.6 (5) Pump 0.0 3.2 0.3 3.5 3.2 1.6 (5) Pump 0.0 3.2 0.3 3.5 3.2 1.6 (5) Pump 0.0 3.2 0.3 3.5 3.2 1.6 (5) Pump 0.0 3.2 0.3 3.5 3.2 1.6 (5) Pump 0.0 3.0 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 0.0 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 0.0 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 0.0 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 0.0 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 0.0 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 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.		900.9	1,150.1	262.0	1,412.1	1,926.9	420.7	2,347.6
(1) Huai Mac Tho (2) Huai Chalom Dam (30.7) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0) (30.0)	2. Lower Basin	· –		1		·		
(2) Huai Chalom Dam								40.0
(3) Huai Tak Dam (4) Ban Ha Bot Dam (5) Huai Mai Ngam Dam (8.1 0.0 0.0 0.0 0.0 0.0 3.5 1.1 (6) MSIP (7) SSIP (1) Khiong Marg Chao Dam (2) Khiong Saun Mak Dam (1) Khiong Saun Mak Dam (1) Khiong Saun Mak Dam (1) MSIP (2) Khiong Marg Chao Dam (3) Khiong Saun Mak Dam (1) MSIP (2) Khiong Marg Chao Dam (3) Khiong Saun Mak Dam (3) Khiong Saun Mak Dam (4) Khiong Marg Marg Chao Dam (5) Khiong Saun Mak Dam (6) MSIP (7) SSIP (8) Marg Chao Dam (10) MSIP (10) MSIP (11) MSIP (12) Khiong Marg Chao Dam (13) Khiong Saun Mak Dam (14) Khiong Marg Chao Dam (15) Khiong Saun Mak Dam (16) MSIP (17) Khiong Marg Chao Dam (18) Khiong Saun Mak Dam (19) MSIP (10) MSIP (10) MSIP (10) MSIP (11) MSIP (12) Khiong Marg Chao Dam (13) Khiong Marg Chao Dam (14) Khiong Marg Chao Dam (15) Khiong Saun Mak Dam (16) MSIP (17) Marg Dam (18) Marg Chao Dam (19) Marg Chao Dam (19) Marg Chao Dam (10) Marg Chao Dam (10) Marg Chao Dam (10) Marg Chao Dam (10) Marg Chao Dam (11) Marg Chao Dam (12) Khiong Marg Chao Dam (13) Khiong Marg Chao Dam (14) Khiong Marg Chao Dam (15) Khiong Marg Chao Dam (16) Khiong Marg Chao Dam (17) Marg Marg Chao Dam (18) Marg Chao Dam (19) Marg Chao Dam (10) Marg Chao Dam (10) Marg Chao Dam (10) Marg Chao Dam (10) Marg Chao Dam (10) Marg Chao Dam (10) Marg Chao Dam (10) Marg Chao Dam (10) Marg Chao Dam (10) Marg Chao Dam (10) Marg Chao Dam (10) Marg Chao Dam (10) Marg Marg Chao Dam (10) Marg Marg Chao Dam (10) Marg Marg Chao Dam (10) Marg Marg Chao Dam (10) Marg Marg Chao Dam (10) Marg Marg Chao Dam (10) Marg Marg Chao Dam (10) Marg Marg Chao Dam (10) Marg Marg Chao Dam (10) Marg Marg Chao Dam (10) Marg Marg Chao Dam (10) Marg Marg Chao Dam (10) Marg Marg Chao Dam (10) Marg Marg Chao Dam (10) Marg Marg Chao Dam (10) Marg Marg Chao Dam (10) Marg Marg Chao Dam (10) Marg Marg Marg Marg Marg Marg Marg Marg								18.2
(4) Ban Ha Bot Dam 13.5 0.0 0.0 0.0 16.0 4.8 (5) Huai Mai Ngam Dam 8.1 0.0 0.0 0.0 3.5 1.1 (6) MSIP 0.0 37.0 7.4 44.4 37.0 11.1 (7) SSIP * 1.6 22.6 2.3 24.9 34.6 3.5 (8) Pump 0.0 11.8 1.2 13.0 14.6 7.3 Sub-total 85.1 71.4 10.9 82.3 136.8 37.1 1 22 Khlong Mac Ra-Ka Basin (1) MSIP 0.0 22.0 4.4 26.4 22.0 6.6 (2) SSIP * 1.7 17.6 1.8 19.4 32.6 3.3 (3) Pump 0.0 3.2 0.3 3.5 3.2 1.6 23 Khdong Saum Mak Basin 1.1 42.8 6.5 49.3 57.8 11.5 (1) Khlong Wang Chao Dam 295.1 0.0 0.0 0.0 26.3 7.9 (2) Khlong Wang Chao Dam 1.1 0.0 0.0 0.0 3.0 0.9								10.9
S Huai Mai Ngam Dam	, , ,							11.3
(6) MSIP								20.8 4.6
Total		t .						4.0 48.1
Section Sub-total Section Sub-total Section Section Sub-total Section Section Section Sub-total Section Section Sub-total Section Section Sub-total Section Se		1)						38.1
Sub-total S.1				1	·			21.9
12 13 14 15 15 15 15 15 15 15								173.9
(1) MSIP		0.3.1	/1.4	10.3	02.0	130.0	37,1	170.7
(2) SSIP		ا ۱	22.0	4.4	26.4	22.0	6.6	28.6
32 Pump 0.0 3.2 0.3 3.5 3.2 1.6								35.9
Sub-total 1.7 42.8 6.5 49.3 57.8 11.5								4.8
23 Khlong Saun Mak Basin 295.1 0.0 0.0 0.0 26.3 7.9 (2) Khlong Wang Chao Dam 1.1 0.0 0.0 0.0 0.0 3.0 0.9 (3) Khlong Khayang Dam 4.6 0.0 0.0 0.0 0.0 2.6 0.8 (4) Khlong Maung Dam 3.0 0.0 0.0 0.0 0.0 1.7 0.5 (5) Khlong Saun Mak Dam 0.0 0.0 0.0 0.0 0.0 37.0 11.1 (6) MSIP 0.0 15.0 3.0 18.0 15.0 4.5 (7) SSIP 0.0 5.5 0.6 6.1 14.5 1.5 (8) Pump 0.0 2.3 0.2 2.5 2.3 1.2 (8) Pump 0.0 2.3 0.2 2.5 2.3 1.2 (8) Pump 0.0 115.0 34.5 149.5 270.0 81.0 22 Khlong Wang Yang Weir 0.0 115.0 34.5 149.5 270.0 81.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.	······································					57.8		69.3
(1) Khiong Wang Chao Dam (2) Khlong Phrai Dam (3) Khlong Khayang Dam (4.6 0.0 0.0 0.0 0.0 2.6 0.8 (4) Khlong Maung Dam (3.0 0.0 0.0 0.0 0.0 1.7 0.5 (5) Khlong Saun Mak Dam (6) MSIP (7) SSIP (8) Pump (10) 0.0 2.3 0.2 2.5 2.3 1.2 (8) Pump (10) Wang Bua Weir (1) Wang Bua Weir (1) Wang Bua Weir (1) Wang Bua Weir (1) Wang Bua Weir (1) Khlong Khayan (1) Wang Bua Weir (1) Khlong Khayan (1) Wang Bua Weir (1) Khlong Khayan (1) Wang Bua Weir (1) Wang Bua Weir (1) Wang Bua Weir (1) Wang Bua Weir (1) Wang Bua Weir (1) Wang Bua Weir (1) Wang Bua Weir (1) Wang Bua Weir (1) Wang Bua Weir (1) Wang Bua Weir (1) Wang Bua Weir (1) Wang Bua Weir (2) Khlong Khoyan (3) Khlong Khoyan (4) Khlong Kra Thin (5) Khlong Kra Thin (6) Wang Yang Weir (7) Khlong Wang Chom Dam (8) Wang Chom Dam (10) Khlong Wang Chom Dam (10) Khlong Lan Dam (10) Khlong Lan Dam (10) Khlong Lan Dam (10) Khlong Pia Soi Dam (10) Khlong Wang Sai Weir (10) Wang Pia Soi Dam (10) Khlong Wang Sai Weir (10) Wang				***************************************		***************************************	***************************************	***************************************
(2) Khlong Phrai Dam (3) Khlong Khayang Dam (4.6) 0.0 0.0 0.0 0.0 2.6 0.8 (4) Khlong Maung Dam (5) Khlong Saun Mak Dam (0.0) 0.0 0.0 0.0 0.0 1.7 0.5 (5) Khlong Saun Mak Dam (0.0) 0.0 0.0 0.0 0.0 37.0 11.1 (6) MSIP (7) SSIP (0.0) 15.0 3.0 18.0 15.0 4.5 (8) Pump (0.0) 2.3 0.2 2.5 2.3 1.2 (8) Pump (1) Wang Bua Weir (1) Wang Bua Weir (1) Wang Bua Weir (2) Khlong Wang Yang Weir (3) Khlong Khlung Mam 15.0 0.0 75.0 22.5 97.5 100.0 30.0 (3) Khlong Kra Thin (0.0) 75.0 22.5 97.5 100.0 30.0 (5) Khlong Nam Lai Dam (15) Khlong Mang Lai Dam (16) Khlong Wang Chom Dam (17) Wang Bua Wang Chom Dam (18) 0.0 0.0 0.0 0.0 0.0 11.0 33.3 (7) Khlong Wang Chom Dam (19) Upper Khlong Lan Dam (10) Khlong Lan Dam (10) Khlong Lan Dam (10) Khlong Mang Khao Dam (10) Khlong Mang Khao Dam (10) Khlong Mang Khao Dam (10) Khlong Mang Khao Dam (10) Khlong Mang Khao Dam (10) Khlong Mang Sai Weir (10) Khlong Wang Sai Weir (10) Khlong Wang Sai Weir (10) Khlong Wang Sai Weir (10) Wang Sai Weir (10) Wang Wang Sai Weir (10) Wang Wang Sai Weir (10) Wang Wang Sai Weir (10) Wang Wang Sai Weir (10) Wang Wang Sai Weir (10) Wang Wang Sai Weir (10) Wang Wang Sai Weir (10) Wang Wang Sai Weir (10) Wang Wang Sai Weir (10) Wang Wang Sai Weir (10) Wang Wang Sai Weir (10) Wang Wang Sai Weir (10) Wang Wang Sai Weir (10) Wang Wang Sai Weir (10) Wang Wang Sai Weir (10) Wang Wang Sai Weir (10) Wang Wang Sai Weir (10) Wang Wang Sai Weir (10) Wang Sai Weir (10) Wang Sai Weir (10) Wang Sai Weir (10) Wang Sai Weir (10) Wang Sai Weir (10) Wang Sai Weir (10) Wang Sai Weir (10) Wang Sai Weir (10) Wang Sai Weir (10) Wang Sai Weir (10) Wang Sai Weir (10) Wang Sai Weir (10) Wang Sai Weir (10) Wang Sai Weir (10) Wang Sai Weir (10) Wang Sai Weir (10) Wang Sai Weir (10) Wang Sai Weir (10) Wang Sai Weir (10) Wang Sai Weir (10) Wang Sai Weir (10) Wang Sai Weir (10) Wang Sai Weir (10) Wang Sai Weir (10) Wang Sai Weir (10) Wang Sai Weir (10) Wang Sai Weir (10) Wang Sai Weir (10) Wang Sai Weir (10) Wang Sai Weir (10) Wang Sai Weir (10) Wang Sai Weir (10) Wang Sai Weir (10) Wang Sai Weir (1		295.1	0.0	0.0	0.0	26.3	7.9	34.2
(4) Khlong Maung Dam 3.0 0.0 0.0 0.0 1.7 0.5 (5) Khlong Saun Mak Dam 0.0 0.0 0.0 0.0 37.0 11.1 (6) MSIP 0.0 15.0 3.0 18.0 15.0 4.5 (7) SSIP 0.0 5.5 0.6 6.1 14.5 1.5 (8) Pump 0.0 2.3 0.2 2.5 2.3 1.2 Sub-total 303.8 22.8 3.8 26.6 102.4 28.4 24 Lower Ping Basin (1) Wang Bua Weir 0.0 115.0 34.5 149.5 270.0 81.0 3 (2) Khlong Wang Yang Weir 0.0 75.0 22.5 97.5 100.0 30.0 3 (3) Khlong Nong Khwan 0.0 75.0 22.5 97.5 100.0 30.0 1 (4) Khlong Kra Thin 0.0 75.0 22.5 97.5 100.0 30.0 1 (5) Khlong Nam Lai Dam 15.0 0.0 0.0 0.0 9.8 2.9 (6) Khlong Khlung Dam 18.0		1.1	0.0	0.0	0.0			3.9
(5) Khlong Saun Mak Dam (00 0.0 0.0 0.0 0.0 37.0 11.1 (6) MSIP (7) SSIP (8) Pump (1) Wang Bua Weir (1) Wang Bua Weir (1) Wang Ryang Weir (2) Khlong Nong Khwan (3) Khlong Nong Khwan (4) Khlong Kra Thin (5) Khlong Nam Lai Dam (5) Khlong Wang Chom Dam (7) Khlong Wang Chom Dam (8) Phet Cha Kho Dam (9) Upper Khlong Lan Dam (10) Khlong Lan Dam (11) Khlong Nam Khao Dam (12) Khlong Nam Khao Dam (13) Khlong Nam Khao Dam (14) Khlong Nam Khao Dam (15) Khlong Nam Khao Dam (16) Khlong Nam Khao Dam (17) Khlong Nam Khao Dam (18) O.0 O.0 O.0 O.0 O.0 O.0 (18) O.0 O.0 O.0 O.0 O.0 (19) Upper Khlong Lan Dam (10) Khlong Nam Khao Dam (11) Khlong Nam Khao Dam (12) Khlong Nam Khao Dam (13) Khlong Nam Khao Dam (14) Cha Khong Nam Khao Dam (15) Khlong Nam Khao Dam (16) Khlong Nam Khao Dam (17) Cha Khao Dam (18) O.0 O.0 O.0 O.0 O.0 (19) Upper Khlong Lan Dam (19) Upper Khlong Lan Dam (10) Khlong Nam Khao Dam (10) Khlong Nam Khao Dam (10) Khlong Nam Khao Dam (11) Khlong Nam Khao Dam (12) Khlong Nam Khao Dam (13) Khlong Nam Khao Dam (14) Khlong Wang Sai Weir (15) SSIP (16) Pump (17) SSIP (18) O.0 O.0 O.0 O.0 O.0 O.0 (19) O.0 O.0 O.0 O.0 (10) O.0 O.0 O.0 (11) Khlong Wang Sai Weir (11) C.0 O.0 O.0 O.0 (12) O.0 O.0 O.0 (13) Khlong Wang Sai Weir (14) MSIP (15) SSIP (15) SSIP (16) Pump (17) SAID (18) O.0 O.0 O.0 (18) O.0 O.0 (19) O.0 O.0 (19) O.0 O.0 (10) O.0 O.0 (11) O.0 O.0 (12) O.0 O.0 (13) SAID (14) MSIP (15) SSIP (16) Pump (17) O.0 O.0 (18) O.0 O.0 (19) O.0 O.0 (19) O.0 O.0 (15) SAID (16) O.0 O.0 (17) O.0 O.0 (18) O.0 O.0 (19) O.0 O.0 (19) O.0 O.0 (15) O.0 O.0 (15) O.0 O.0 (16) O.0 O.0 (17) O.0 O.0 (18) O.0 O.0 (19) O.0 O.0 (19) O.0 O.0 (19) O.0 O.0 (19) O.0 O.0 (10) O.0 O.0 (11) O.0 O.0 (11) O.0 O.0 (12) O.0 O.0 (13) O.0 O.0 O.0 (14) O.0 O.0 (15) O.0 O.0 O.0 (15) O.0 O.0 O.0 (16) O.0 O.0 O.0 (17) O.0 O.0 O.0 O.0 (18) O.0 O.0 O.0 O.0 (19) O.0 O.0 O.0 O.0 (19) O.0 O.0 O.0 (19) O.0 O.0 O.0 O.0 O.0 (19) O.0 O.0 O.0 O.0 O.0 O.0 O.0 O.0 O.0 O.0	(3) Khlong Khayang Dam		0.0	0.0	i i	1		3.4
(6) MSIP	(4) Khlong Maung Dam							2.2
(7) SSIP (8) Pump 0.0 0.0 2.3 0.2 2.5 2.3 1.2 Sub-total 303.8 22.8 3.8 26.6 102.4 28.4 2.4 Lower Ping Basin (1) Wang Bua Weir 0.0 115.0 34.5 34.5 34.5 34.5 270.0 81.0 30.0 22.5 97.5 100.0 30.0 22.5 (4) Khlong Nong Khwan 0.0 50.0 15.0 65.0 75.0 22.5 (4) Khlong Kra Thin 0.0 75.0 22.5 97.5 100.0 30.0 15.0 (5) Khlong Nam Lai Dam 15.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 11.0 3.3 (7) Khlong Wang Chom Dam 3.9 0.0 0.0 0.0 0.0 0.0 1.8 0.5 (8) Phet Cha Kho Dam 2.9 0.0 0.0 0.0 0.0 0.0 0.0 1.4 0.4 (9) Upper Khlong Lan Dam 2.8 0.0 0.0 0.0 0.0 0.0 0.0 1.2 0.4 (11) Khlong Nam Khao Dam 3.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0								48.1
Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-total Sub-		t i						19.5
Sub-total 303.8 22.8 3.8 26.6 102.4 28.4								16.0
2.4 Lower Ping Basin (1) Wang Bua Weir 0.0 115.0 34.5 149.5 270.0 81.0 (2) Khlong Wang Yang Weir 0.0 75.0 22.5 97.5 100.0 30.0 (3) Khlong Nong Khwan 0.0 50.0 15.0 65.0 75.0 22.5 (4) Khlong Kra Thin 0.0 75.0 22.5 97.5 100.0 30.0 (5) Khlong Nam Lai Dam 15.0 0.0 0.0 0.0 9.8 2.9 (6) Khlong Khlung Dam 18.0 0.0 0.0 0.0 11.0 3.3 (7) Khlong Wang Chorn Dam 3.9 0.0 0.0 0.0 11.0 3.3 (8) Phet Cha Kho Dam 2.9 0.0 0.0 0.0 1.4 0.4 (9) Upper Khlong Lan Dam 6.8 0.0 0.0 0.0 1.2 1.9 (10) Khlong Nam Khao Dam 3.7 0.0 0.0 0.0 1.2 0.4 (11) Khlorig Nam Khao Dam 3.7 0.0 0.0 0.0 3.5 1.1 (13) Khlong Wang Sai Weir 0.0 0.0								3.5
(1) Wang Bua Weir (2) Khlong Wang Yang Weir (3) Khlong Nong Khwan (4) Khlong Kra Thin (5) Khlong Nam Lai Dam (6) Khlong Wang Chorn Dam (7) Khlong Wang Chorn Dam (8) Phet Cha Kho Dam (9) Upper Khlong Lan Dam (10) Khlong Lan Dam (10) Khlong Nam Khao Dam (10) Khlong Nam Khao Dam (11) Khlong Pla Soi Dam (12) Khlong Wang Sai Weir (13) Khlong Wang Sai Weir (14) MSIP (15) SSIP (16) Pump (17) Khlong Wang Sai Weir (16) Pump (17) Khlong Wang Sai Weir (18) Wang Sai Weir (19) Upper Khlong Lan Dam (10) Khlong Wang Sai Weir (10) Khlong Wang Sai Weir (10) Khlong Wang Sai Weir (10) Khlong Wang Sai Weir (10) Khlong Wang Sai Weir (10) Khlong Wang Sai Weir (10) Khlong Wang Sai Weir (10) Khlong Wang Sai Weir (10) Wang Sai Weir (10) Wang Sai Weir (10) Wang Sai Weir (11) Khlong Wang Sai Weir (12) Wang Sai Weir (13) Khlong Wang Sai Weir (14) MSIP (15) SSIP (16) Pump (17) Wang Sai Weir (18) Wang Sai Weir (19) Wang Sai Weir (19) Wang Sai Weir (19) Wang Sai Weir (19) Wang Sai Weir (19) Wang Sai Weir (19) Wang Sai Weir (19) Wang Sai Weir (19) Wang Sai Weir (19) Wang Sai Weir (19) Wang Sai Weir (19) Wang Sai Weir (19) Wang Sai Weir (19) Wang Sai Weir (19) Wang Sai Weir (19) Wang Sai Weir (19) Wang Sai Weir (19) Wang Sai Weir (19) Wang Sai Weir (19) Wang Sai Weir (19) Wang Sai Weir (19) Wang Sai Weir (19) Wang Sai Weir (19) Wang Sai Weir (19) Wang Sai Weir (19) Wang Sai Weir (19) Wang Sai Weir (19) Wang Sai Weir (19) Wang Sai Weir (19) Wang Sai Weir (19) Wang Sai Weir (19) Wang Sai Weir (19) Wang Sai Weir (19) Wang Sai Weir (19) Wang Sai Weir (19) Wang Sai Weir (19) Wang Sai Weir (19) Wang Sai Weir (19) Wang Sai Weir (19) Wang Sai Weir (19) Wang Sai Weir (19) Wang Sai Weir (19) Wang Sai Weir (19) Wang Sai Weir (19) Wang Sai Weir (19) Wang Sai Weir (19) Wang Sai Weir (19) Wang Sai Weir (19) Wang Sai Weir (19) Wang Sai Weir (19) Wang Sai Weir (19) Wang Sai Weir (19) Wang Sai Weir (19) Wang Sai Weir (19) Wang Sai Weir (19) Wang Sai Weir (19) Wang Sai Weir (19) Wang Sai Weir (19) Wang Sai Weir (19) Wang Sai Weir (19) Wang Sai Weir (19) Wang Sa		303.8	22.8	3.8	20.0	102.4	28.4	130.8
(2) Khlong Wang Yang Weir 0.0 75.0 22.5 97.5 100.0 30.0 (3) Khlong Nong Khwan 0.0 50.0 15.0 65.0 75.0 22.5 (4) Khlong Kra Thin 0.0 75.0 22.5 97.5 100.0 30.0 (5) Khlong Nam Lai Dam 15.0 0.0 0.0 0.0 9.8 2.9 (6) Khlong Khlung Dam 18.0 0.0 0.0 0.0 11.0 3.3 (7) Khlong Wang Chom Dam 3.9 0.0 0.0 0.0 11.0 3.3 (8) Phet Cha Kho Dam 2.9 0.0 0.0 0.0 1.4 0.4 (9) Upper Khlong Lan Dam 6.8 0.0 0.0 0.0 1.2 1.9 (10) Khlong Lan Dam 2.8 0.0 0.0 0.0 0.0 1.2 0.4 (11) Khlong Nam Khao Dam 3.7 0.0 0.0 0.0 1.6 0.5 (12) Khlong Pla Soi Dam 6.0 0.0 0.0 0.0 3.5 1.1 (13) Khlong Wang Sai Weir 0.0 155.5 31.1		ا م	1150	245	140.5	270.0	91.0	351.0
(3) Khlong Nong Khwan 0.0 50.0 15.0 65.0 75.0 22.5 (4) Khlong Kra Thin 0.0 75.0 22.5 97.5 100.0 30.0 (5) Khlong Nam Lai Dam 15.0 0.0 0.0 0.0 0.0 9.8 2.9 (6) Khlong Khlung Dam 18.0 0.0 0.0 0.0 0.0 11.0 3.3 (7) Khlong Wang Chom Dam 3.9 0.0 0.0 0.0 0.0 11.0 3.3 (8) Phet Cha Kho Dam 2.9 0.0 0.0 0.0 0.0 1.4 0.4 (9) Upper Khlong Lan Dam 6.8 0.0 0.0 0.0 0.0 1.2 1.9 (10) Khlong Lan Dam 2.8 0.0 0.0 0.0 0.0 1.2 0.4 (11) Khlong Nam Khao Dam 3.7 0.0 0.0 0.0 1.6 0.5 (12) Khlong Pla Soi Dam 6.0 0.0 0.0 0.0 3.5 1.1 (13) Khlong Wang Sai Weir 0.0 155.5 31.1 186.6 155.5 46.7 <								130.0
(4) Khlong Kra Thin 0.0 75.0 22.5 97.5 100.0 30.0 (5) Khlong Nam Lai Dam 15.0 0.0 0.0 0.0 9.8 2.9 (6) Khlong Khlung Dam 18.0 0.0 0.0 0.0 11.0 3.3 (7) Khlong Wang Chom Dam 3.9 0.0 0.0 0.0 0.0 11.0 3.3 (8) Phet Cha Kho Dam 2.9 0.0 0.0 0.0 0.0 1.4 0.4 (9) Upper Khlong Lan Dam 6.8 0.0 0.0 0.0 0.0 6.2 1.9 (10) Khlong Lan Dam 2.8 0.0 0.0 0.0 0.0 1.2 0.4 (11) Khlong Nam Khao Dam 3.7 0.0 0.0 0.0 1.6 0.5 (12) Khlong Pla Soi Dam 6.0 0.0 0.0 0.0 3.5 1.1 (13) Khlong Wang Sai Weir 0.0 0.0 0.0 0.0 9.0 2.7 (14) MSIP * 0.4 33.6 3.4 37.0 86.1 8.6 (15) Pump 0.0 87.2								97.5
(5) Khlong Nam Lai Dam 15.0 0.0 0.0 0.0 9.8 2.9 (6) Khlong Khlung Dam 18.0 0.0 0.0 0.0 0.0 11.0 3.3 (7) Khlong Wang Chom Dam 3.9 0.0 0.0 0.0 0.0 1.8 0.5 (8) Phet Cha Kho Dam 2.9 0.0 0.0 0.0 0.0 1.4 0.4 (9) Upper Khlong Lan Dam 6.8 0.0 0.0 0.0 0.0 6.2 1.9 (10) Khlong Lan Dam 2.8 0.0 0.0 0.0 0.0 1.2 0.4 (11) Khlong Nam Khao Dam 3.7 0.0 0.0 0.0 0.0 1.6 0.5 (12) Khlong Pla Soi Dam 6.0 0.0 0.0 0.0 3.5 1.1 (13) Khlong Wang Sai Weir 0.0 0.0 0.0 0.0 9.0 2.7 (14) MSIP 0.0 155.5 31.1 186.6 155.5 46.7 (15) SSIP * 0.4 33.6 3.4 37.0 86.1 8.6 (16) Pump 0								130.0
(6) Khlong Khlung Dam 18.0 0.0 0.0 0.0 11.0 3.3 (7) Khlong Wang Chom Dam 3.9 0.0 0.0 0.0 1.8 0.5 (8) Phet Cha Kho Dam 2.9 0.0 0.0 0.0 1.4 0.4 (9) Upper Khlong Lan Dam 6.8 0.0 0.0 0.0 0.0 6.2 1.9 (10) Khlong Lan Dam 2.8 0.0 0.0 0.0 0.0 1.2 0.4 (11) Khlong Nam Khao Dam 3.7 0.0 0.0 0.0 0.0 1.6 0.5 (12) Khlong Pla Soi Dam 6.0 0.0 0.0 0.0 3.5 1.1 (13) Khlong Wang Sai Weir 0.0 0.0 0.0 0.0 9.0 2.7 (14) MSIP 0.0 155.5 31.1 186.6 155.5 46.7 2.0 (15) SSIP * 0.4 33.6 3.4 37.0 86.1 8.6 (16) Pump 0.0 87.2 8.7 95.9 134.2 67.1 2.0								130.0
(7) Khlong Wang Chom Dam 3.9 0.0 0.0 0.0 1.8 0.5 (8) Phet Cha Kho Dam 2.9 0.0 0.0 0.0 1.4 0.4 (9) Upper Khlong Lan Dam 6.8 0.0 0.0 0.0 6.2 1.9 (10) Khlong Lan Dam 2.8 0.0 0.0 0.0 1.2 0.4 (11) Khlorig Nam Khao Dam 3.7 0.0 0.0 0.0 1.6 0.5 (12) Khlong Pla Soi Dam 6.0 0.0 0.0 0.0 3.5 1.1 (13) Khlong Wang Sai Weir 0.0 0.0 0.0 0.0 9.0 2.7 (14) MSIP 0.0 155.5 31.1 186.6 155.5 46.7 2 (15) SSIP * 0.4 33.6 3.4 37.0 86.1 8.6 (16) Pump 0.0 87.2 8.7 95.9 134.2 67.1 2					I I			14.3
(8) Phet Cha Kho Dam 2.9 0.0 0.0 0.0 1.4 0.4 (9) Upper Khlong Lan Dam 6.8 0.0 0.0 0.0 6.2 1.9 (10) Khlong Lan Dam 2.8 0.0 0.0 0.0 1.2 0.4 (11) Khlong Nam Khao Dam 3.7 0.0 0.0 0.0 1.6 0.5 (12) Khlong Pla Soi Dam 6.0 0.0 0.0 0.0 3.5 1.1 (13) Khlong Wang Sai Weir 0.0 0.0 0.0 0.0 9.0 2.7 (14) MSIP 0.0 155.5 31.1 186.6 155.5 46.7 2.6 (15) SSIP * 0.4 33.6 3.4 37.0 86.1 8.6 (16) Pump 0.0 87.2 8.7 95.9 134.2 67.1 2.0								2.3
(9) Upper Khlong Lan Dam 6.8 0.0 0.0 0.0 6.2 1.9 (10) Khlong Lan Dam 2.8 0.0 0.0 0.0 1.2 0.4 (11) Khlong Nam Khao Dam 3.7 0.0 0.0 0.0 1.6 0.5 (12) Khlong Pla Soi Dam 6.0 0.0 0.0 0.0 3.5 1.1 (13) Khlong Wang Sai Weir 0.0 0.0 0.0 0.0 9.0 2.7 (14) MSIP 0.0 155.5 31.1 186.6 155.5 46.7 2 (15) SSIP * 0.4 33.6 3.4 37.0 86.1 8.6 (16) Pump 0.0 87.2 8.7 95.9 134.2 67.1 2								1.8
(10) Khlong Lan Dam 2.8 0.0 0.0 0.0 1.2 0.4 (11) Khlong Nam Khao Dam 3.7 0.0 0.0 0.0 1.6 0.5 (12) Khlong Pla Soi Dam 6.0 0.0 0.0 0.0 3.5 1.1 (13) Khlong Wang Sai Weir 0.0 0.0 0.0 0.0 9.0 2.7 (14) MSIP 0.0 155.5 31.1 186.6 155.5 46.7 2.7 (15) SSIP * 0.4 33.6 3.4 37.0 86.1 8.6 (16) Pump 0.0 87.2 8.7 95.9 134.2 67.1 2.2								8.1
(11) Khlong Nam Khao Dam 3.7 0.0 0.0 0.0 1.6 0.5 (12) Khlong Pla Soi Dam 6.0 0.0 0.0 0.0 3.5 1.1 (13) Khlong Wang Sai Weir 0.0 0.0 0.0 0.0 9.0 2.7 (14) MSIP 0.0 155.5 31.1 186.6 155.5 46.7 3.6 (15) SSIP * 0.4 33.6 3.4 37.0 86.1 8.6 (16) Pump 0.0 87.2 8.7 95.9 134.2 67.1 3.2								1.6
(12) Khlong Pla Soi Dam 6.0 0.0 0.0 0.0 3.5 1.1 (13) Khlong Wang Sai Weir 0.0 0.0 0.0 0.0 9.0 2.7 (14) MSIP 0.0 155.5 31.1 186.6 155.5 46.7 3.6 (15) SSIP * 0.4 33.6 3.4 37.0 86.1 8.6 (16) Pump 0.0 87.2 8.7 95.9 134.2 67.1 2.2								2.1
(13) Khlong Wang Sai Weir 0.0 0.0 0.0 0.0 9.0 2.7 (14) MSIP 0.0 155.5 31.1 186.6 155.5 46.7 33.6 (15) SSIP * 0.4 33.6 3.4 37.0 86.1 8.6 (16) Pump 0.0 87.2 8.7 95.9 134.2 67.1 33.6	(12) Khiong Pla Soi Dam						•	4.6
(14) MSIP 0.0 155.5 31.1 186.6 155.5 46.7 33.6 (15) SSIP * 0.4 33.6 3.4 37.0 86.1 8.6 (16) Pump 0.0 87.2 8.7 95.9 134.2 67.1 33.4	(13) Khlong Wang Sai Weir							11.7
(15) SSIP	(14) MSIP							202.2
(16) Pump 0.0 87.2 8.7 95.9 134.2 67.1 2								94.7
			87.2		95.9		67.1	201.3
Sub-Total 59.5 591.3 137.7 729.0 966.3 299.6 1,7						966.3	299.6	1,265.9
Total 450.1 728.3 158.9 887.2 1,263.3 376.6 1,						1,263.3	376.6	1,639.9
							797.3	3,987.5

⁽²⁾ Reservoir capacity of the upper Ping is 640 MCM in the existing and 900.9 MCM in future.

⁽³⁾ Reservoir capacity of the lower Ping is 3.7 MCM in the existing and 450.1 MCM in future.

Table 4.1.7 Existing and Future Irrigation Projects in Yom Basin (1)

Project		ervoir pacity	Existi	ng Irrigation (10 ³ rai)	Area	Futur	e Irrigation A (10 ³ rai)	^urea
	(M	(CM)	Wet	Dry	Total	Wet	Dry	Total
1. Upper Yom Basin								
(1) Kaeng Sua Ten Dam	1	1,175.0	0.0	0.0	0.0	0.0	0.0	0.0
(2) Huai Han Dam		2.6	0.0	0.0	0.0	1.5	0.5	2.0
(3) MSIP		0.0	3.0	0.6	3.6	3.0	0.9	3.9
(4) SSIP	*	5.6	13.0	1.3	14.3	30.6	3.1	33.7
(5) Pump	***********	0.0	2.8	0.3	3.1	7.3	1.5	8.8
Sub-total Sub-total		1,183.2	18.8	2.2	21.0	42.4	6.0	48.4
2. Kaum Basin	•							-
(1) MSIP		0.0	3.5	0.7	4.2	3.5	1.1	4.6
(2) SSIP	*	2.1	5.9	. 0.6	6.5	23.5	2.4	25.9
(3) Pump		0.0	0.0	0.0	0.0	1.5	0.3	1.8
Sub-total		2.1	9.4	1.3	10.7	28.5	3.8	32.3
3. Pi Basin								
(1) Lam Nam Pi Dam		30.0	0.0	0.0	0.0	25.0	7.5	32.5
(2) MSIP		0.0	0.0	0.0	0.0	0.0	0.0	0.0
(3) SSIP	*	2.3	11.6	1.2	12.8	38.0	3.8	41.8
(4) Pump		0.0	0.0	0.0	0.0	1.5	0.3	1.8
Sub-total		32.3	11.6	1.2	12.8	64.5	11.6	76.1
4. Ngao Basin								
(1) Wang Daeng Dam		12.0	0.0	0.0	0.0	10.0	3.0	13.0
(2) MSIP		0.0	5.0	1.0	6.0	5.0	1.5	6.5
(3) SSIP	*	3.7	3.5	0.4	3.9	12.3	1.2	13.5
(4) Pump		0.0	0.5	0.1	0.6	2.0	0.4	2.4
Sub-total		15.7	9.0	1.5	10.5	29.3	6.1	35.4
5. Middle Yom Basin			<i>t</i>	·		*		
(1) Mae Yom Weir		0.0	224.0	67.2	291.2	224.0	112.0	336.0
(2) Mae Song Dam		67.0	0.0	0.0	0.0	32.0	9.6	41.6
(3) Mae Thang Dam		30.6	0.0	0.0	0.0	20.0	6.0	26.0
(4) Mae Sai Dam		24.3	0.0	0.0	0.0	18.0	5.4	23.4
(5) Huai Mae Kham Dam		9.6	0.0	0.0	0.0	6.2	1.9	8.1
(6) MSIP	*	35.8	101.5	20.3	121.8	101.5	30.4	131.9
(7) SSIP	*	7.7	44.5	4.4	48.9	167.7	16.8	184.5
(8) Pump	 	0.0	6.4	0.6	7.0	10,9	5,5	16.4
Sub-total	 	175.0	376.4	92.5	468.9	580.3	187.6	767.9
6. Mae Khan Mi Basin	١.	٠.						
(1) MSIP	*	2.6	9.5	1.9	11.4	9.5	2.9	12.4
(2) SSIP	*	0.2	3.9	0.4	4.3	12.7	1.3	14.0
(3) Pump	ļ	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sub-total Sub-total		2.8	13.4	2.3	15.7	22.2	4.2	26.4

Table 4.1.7 Existing and Future Irrigation Projects in Yom Basin (2)

Project	Reservoir Capacity	Existi	ing Irrigation (10 ³ rai)	Area	Futu	re Irrigation . (10 ³ rai)	Area
	(MCM)	Wet	Dry	Total	Wet	Dry	Total
7. Mae Ta Basin							
(1) Mae Lang Dam	16.8	0.0	0.0	0.0	8.5	2.6	11.1
(2) MSIP	0.0	3.2	0.6	3.8	3.2	1.0	4.2
(3) SSIP	* 1.6	5.3	0.5	5.8	14.1	1.4	15.5
(4) Pump	0.0	1.0	0.1	1.1	2.5	1.3	3.8
Sub-total	18.4	9.5	1.2	10.7	28.3	6.3	34.6
8. Huai Mae Sin Basin							
(1) MSIP	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(2) SSIP	0.0	0.0	0.0	0.0	8.8	0.9	9.7
(3) Pump	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sub-total	0.0	0.0	0.0	0.0	8.8	0.9	9.7
9. Mae Mok Basin							
(1) Huai Tha Phae Dam	58.0	0.0	0.0	0.0	20.0	6.0	26.0
(2) Mae Mok Dam	96.0	0.0	0.0	0.0	44.0	13.2	57.2
(3) Huai Mae So-Lam Dam	11.3	0.0	0.0	0.0	5.5	1.7	7.2
(4) Pong Daeng Dam	4.2	0.0	0.0	0.0	2.0	0.6	2.6
(5) Huai Bung Bon Dam	5.0	0.0	0.0	0.0	3.0	0.9	3.9
(6) MSIP	0.0	34.6	6.9	41.5	34.6	10.4	45.0
(7) SSIP	0.7	21.7	2.2	23.9	65.7	6.6	72.3
(8) Pump	0.0	0.0	0.0	0.0	7.5	3.8	11.3
Sub-total	175.2	56.3	9.1	65.4	182.3	43.2	225.5
10. Huai Mae Ram Phan Basin							
(1) Huai Mae Kong Khai Dam	7.8	0.0	0.0	. 0.0	4.5	1.4	5.9
(2) Huai Mae Ram Phan Dam	8.0	0.0	0.0	0.0	5.3	1.6	6.9
(3) MSIP	0.0	0.0	0.0	0.0	0.0	0.0	0.0
(4) SSIP	* 0.4	10.5	1.1	11.6	28.1	2.8	30.9
(5) Pump	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sub-total	16.2	10.5	1.1	11.6	37.9	5.8	43.7
11. Lower Yom Basin							
(1) Huai Saung Dam	8.0	0.0	0.0	0.0	10.0	3.0	13.0
(2) Ban Tha Chang Regulator	5.0	0.0	0.0	0.0	30.0	9.0	39.0
(3) Khiong Kra Chong Reg	4.5	0.0	0.0	0.0	40.0	12.0	52.0
(4) Ban Had Saphan Chan	4.0	0.0	0.0	0.0	45.0	13.5	58.5
(5) Huai Pak Khu Dam	4.0	0.0	0.0	0.0	2.0	0.6	2.6
(6) Huai Mae Sam Dam	4.5	0.0	0.0	0.0	1.2	0.4	1.6
(7) Huai Rai Dam	3.0	0.0	0.0	0.0	2.0	0.6	2.6
(8) MSIP	* 18.7	308.2	61.6	369.8	308.2	92.5	400.7
(9) SSIP	* 51.8	80.7	8.1	88.8	327.1	32.7	359.8
(10) Pump	0.0	65.6	6.6	72.2	77.6	38.8	116.4
Sub-total	103.5	454.5	76.3	530.8	843.1	203.1	1,046.2
Total	1,724.4	969.4	188.7	1,158.1	1,867.6	478.6	2,346.2

⁽²⁾ Reservoir capacity of the Yom is 72.5 MCM in the existing and 1,724.4 MCM in future.

Table 4.1.8 Existing and Future Irrigation Projects in Wang Basin

Project		ervoir acity	Existin	ng Irrigation (10 ³ rai)	Area	Future	re Irrigation Area (10 ³ rai)		
	(M	CM)	Wet	Dry	Total	Wet	Dry	Total	
1. Upper Wang Basin									
(1) Kiu Kho Ma Dam		141.0	0.0	0.0	0.0	61.7	12.3	74.0	
(2) Huai Mae Fa Dam		23.5	0.0	0.0	0.0	15.0	3.0	18.0	
(3) MSIP	*	1.7	14.0	2.8	16.8	14.0	2.8	16.8	
(4) SSIP	*	2.6	53.3	5.3	58.6	55.3	5.5	60.8	
(5) Pump		0.0	1.5	0.2	1.7	5.4	1.1	6.5	
Sub-total	********	168.8	68.8	8.3	77.1	151.4	24.7	176.1	
2. Mae Suai Basin	 -								
(1) Mae Suai Dam	İ	47.0	0.0	0.0	0.0	24.0	4.8	28.8	
(2) MSIP		0.0	7.0	1.4	8.4	7.0	1.4	8.4	
(3) SSIP	*	0.2	2.6	0.3	2.9	8.6	0.9	9.5	
(4) Pump		0.0	0.0	0.0	0.0	1.3	0.3	1.6	
Sub-total		47.2	9.6	1.7	11.3	40.9	7.4	48.3	
3. Mae Tui Basin		<u>-</u>						•	
(1) Mae Nung Dam		9.5	0.0	0.0	0.0	5.0	1.0	6.0	
(2) Mae Khum Dam		4.0	0.0	0.0	0.0	3.0	0.6	3.6	
(3) Mae Suk Dam		4.0	0.0	0.0	0.0	3.0	0.6	3.6	
(4) MSIP	*	3.3	12.0	2.4	14.4	12.0	2.4	14.4	
(5) SSIP	*	3.7	10.5	1.1	11.6	22.5	2.3	24.8	
(6) Pump	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Sub-total	1*****	24.5	22.5	3.5	26.0	45.5	6.9	52.4	
4. Middle Wan Basin									
(1) Mae Wang Kiu Lom Dam	*	112.0	130.0	26.0	156.0	130.0	26.0	156.0	
(2) MSIP	*	10.1	72.5	14.5	87.0	72.5	14.5	87.0	
(3) SSIP	*	3.0	29.5	3.0	32.5	71.5	7.2	78.7	
(4) Pump		0.0	18.0	1.8	19.8	25.8	5.2	31.0	
Sub-total	1	125.1	250.0	45.3	295.3	299.8	52.9	352,7	
5. Mae Chang Basin									
(1) Mae Chang Dam (W)	1	108.5	0.0	0.0	0.0	0.0	0.0	0.0	
(2) Mae Chang Dam (Irri.)	1	24.4	0.0	. 0.0	0.0	16.0	3.2	19.2	
(3) MSIP	*	10.5	25.5	5.1	30.6	25.5	5.1	30.6	
(4) SSIP	*	10.5	24.0	2.4	26.4	54.0	5.4	59.4	
(5) Pump	1	0.0	8.8	0.9	9.7	10.1	2.0	12.1	
Sub-total	1	153.9	58.3	8.4	66.7	105.6	15.7	121.3	
6. Mae Tam Basin									
(1) Mae Riang Phatthana	1	6.8	0.0	0.0	0.0	3.0	0.6	3.0	
(2) Upper Mae Tam Dam		6.0	0.0	0.0	0.0	5.0	1.0	6.0	
(3) Huai Mae Phung Dam	1	3.0	0.0	0.0	0.0	3.0	0.6	3.0	
(4) MSIP	*	0.7	5.0	1.0	6.0	5.0	1.0	6.0	
(5) SSIP	*	4.3	18.5	1.9	20.4	36.5	3.7	40.2	
(6) Pump	1	0.0	2.2	0.2	2.4	3.5	0.7	4.	
Sub-total	-	20.8	25.7	3.1	28.8	56.0	7.6	63.	
7. Mae Cham Basin									
(1) Mae Prik Dam		40.0	0.0	0.0	0.0	20.0	4.0	24.	
(2) Mae Salid Dam		20.0	0.0	0.0	1	12.0	2.4	14.	
(3) MSIP	*	25.5	38.2	7.6		38.2	7.6	45.	
(4) SSIP	*	8.0	36.9	3.7		78.9	7.9	86.	
(5) Pump		0.0	23.8	2.4	1	31.6	6.3	37.	
Sub-total	1	93.5	98.9	13.7		180.7	28.2	208.	
Total	\top	633.8	533.8			879.9	143.4	1,023.	

⁽²⁾ Reservoir capacity of the Wang is 196.1 MCM in the existing and 633.8 MCM in future.

Table 4.1.9 Existing and Future Irrigation Projects in Sakae Krang Basin

	Reservoir	Exist	ing Irrigation	Area	Futu	re Irrigation	Area
Project	Capacity (MCM)	441.4	(10 ³ rai)	T-4-1	XX1.4	(10 ³ rai)	Tr.4-1
d War 1992 . Wa *	(Incin)	Wet	Dry	Total	Wet	Dry	Total
1. Mae Wong Basin		2.0	0.4	2.1	10	0.6	2.6
(1) Thung Nong Kae Lai Weir	0.0	3.0	0.1	3.1	3.0	0.6	3.6
(2) Ban Sadao Sai Weir	0.0	6.0	0.2	6.2	6.0	1.2	7.2
(3) Mae Wong Dam	250.0	0.0	0.0	0.0	61.0	18.3	79.3
(4) SSIP	0.0	236.5	23.7	260.2	244.5	24.5	269.0
(5) Pump	0.0	0.0	0.0	0.0	1.3	0.3	1.6
Sub-total	250.0	245.5	24.0	269.5	315.8	44.9	360.7
2. Khlong Pho Basin							
(1) Khlong Pho Dam	67.5	0.0	0.0	0.0	70.0	14.0	84.0
(2) Thung Mon Weir	0.0	5.0	1.0	6.0	5.0	1.0	6.0
(3) Huai Yai Hem Weir	0.0	6.0	1.2	7.2	6.0	1.2	7.2
(4) Khlong Pho Regulator	0.0	4.0	0.8	4.8	4.0	0.8	4.8
(5) Ban Hua Khao Daeng Weir	0.0	4.0	0.8	4.8	4.0	0.8	4.8
(6) Map Kae Weir	0.0	6.0	1.2	7.2	6.0	1.2	7.2
(7) Khlong Pho Weir	0.0	4.0	0.8	4.8	4.0	0.8	4.8
(8) Ban Khlong Khoi Dam	0.0	4.3	0.9	5.2	4.3	0.9	5.2
(9) Nong Wan Koob Weir	.0.0	10.0	2.0	12.0	10.0	2.0	12.0
(10) Nong Ya Plong Weir	0.0	3.0	0.6	3.6	3.0	0.6	3.6
(11) Nong Yai Da Weir	0.0	8.0	1.6	9.6	8.0	1.6	9.6
(12) SSIP	0.5	33.4	3.3	36.7	85.4	8.5	93.9
(13) Pump	0.0	0,0	0.0	0.0	1.3	0.3	1.6
Sub-total	68.0	87. 7	14.2	101.9	211.0	33.7	244.7
3. Tab Salao Basin							
(1) Tab Salao Dam	* 160.0	143.5	28.7	172.2	143.5	43.1	186.6
(2) Huai Nam Wing Regulator	0.0	3.0	0.6	3.6	3.0	0.6	3.6
(3) SSIP	* 1.8	8.2	0.8	9.0	28.2	2.8	31.0
(4) Pump	0.0	0.0	0.0	0.0	1.3	0.3	1.6
Sub-total	161.8	154.7	30.1	184.8	176.0	46.8	222.8
4. Lower Sakae Krang Basin							
(1) Khao Lao Ruang Dam	* -0.7	5.0	1.0	6.0	5.0	1.0	6.0
(2) Khao Laung Dam	0.0	20.0	4.0	24.0	20.0	4.0	24.0
(3) Nong Luang Weir	0.0	4,0	0.8	4.8	4.0	0.8	4.8
(4) Don Kloi Weir	0.0	5.0	1.0	6.0	5.0	1.0	6.0
(5) Pong Khoi Weir	0.0	6.0	1.2	7.2	6.0	1.2	7.2
(6) Wang Khwai Weir	0.0	4.0	0.8	4.8	4.0	0.8	4.8
(7) Wang Rom Klao	0.0	12.5	2.5	15.0	12.5	2.5	15.0
(8) Nong Phang Kha Weir	0.0	5.0	1.0	6.0	5.0	1.0	6.0
(9) Huai Phra Chan Weir	0.0	3,0	0.6	3.6	3.0	0.6	3.6
(10) Hong Ban Weir	0.0	3.0	0.6	3.6	3.0	0.6	3.6
(11) SSIP	0.0	15.7	1.6	17.3	55.7	5.6	61.3
(12) Pump	0.0	7.0	1.4	8.4	9.6	1.9	11.5
Sub-total	0.7	90.2	16.5	106.7	132.8	21.0	153.8
Total	480.5	578.1	84.8	662.9	835.6	146.4	982.0

⁽²⁾ Reservoir capacity of the Sakae Krang is 162.5 MCM in the existing and 480.5 MCM in future.

Table 4.1.10 Existing and Future Irrigation Projects in Pasak Basin (1)

Project		ervoir pacity	Existi	ng Irrigation (10 ³ rai)	Area	Futui	re Irrigation A (10 ³ rai)	rea
Project		ICM)	Wet	Dry	Total	Wet	Dry	Total
	(17)	CIVI)	Wel	- Diy	10141	WCI	Diy	Total
I. Upper Pasak Basin	*	22.2	21.0	3.2	35.0	31.8	3.2	35.0
(1) Kuai Khon Kaen	T	32.2	31.8	i i	0.0	2.7	0.5	3.2
(2) Huai Sadaung Yai		15.0	0.0	0.0		ž.	i	35.2
(3) Left Side of Pasak River		0.0	32.0	3.2	35.2	32.0	3.2	
(4) Huai Si Chan		0.0	6.0	0.6	6.6	6.0	0.6	6.6
(5) SSIP	*	0.1	6.5	0.7	7.2	14.5	1.5	16.0
(6) Pump		0.0	0.0	0.0	0.0	0.0	0,0	0.0
Sub-total	<u> </u>	47.3	76.3	7.7	84.0	87.0	9.0	96.0
2. Huai Nam Phung Basin	1						0.4	3.9
(1) Khlong Koy System		0.0	3.5	0.4	3.9	3.5		
(2) Kud Man Regulator		0.0	10.0	1.0	11.0	10.0	1.0	11.0
(3) Na Saeng Regulator		0.0	10.0	1.0	11.0	10.0	1.0	11.0
(4) Klong Weir		0.0	8.0	0.8	8.8	8.0	0.8	8.8
(5) SSIP	*	0.4	8.2	0.8	9.0	16.2	1.6	17.8
(6) Pump	<u> </u>	0.0	0.0	0.0	0.0	1.5	0.3	1.8
Sub-total	 	0.4	39.7	4.0	43.7	49.2	5.1	54.3
3. Pasak Basin Part II	ŀ				4.0			
(1) Saen Nga Weir		0.0	3.0	0.9	3.9	3.0	0.9	3.9
(2) Ban Rai Weir	_	0.0	10.0	3.0	13.0	10.0	3.0	13.0
(3) SSIP	*	0.3	5.4	0.5	5.9	13.4	1.3	14.7
(4) Pump		0.0	0.0	0.0	0.0	1.5	0.3	1.8
Sub-total	╀	0.3	18.4	4.4	22.8	27.9	5.5	33.4
4. Pasak Basin Part III	*			00	20	2.0	0.9	3.9
(1) Huai Sai Dam	*	0.3	3.0	0.9	3.9	3.0	0.9	3.9
(2) Wang Chan Regulator	1.	0.0	3.0	0.9	3.9	3.0		
(3) Tha Kok Tan Culvert	*	0.5	4.0	1.2	5.2	4.0	1.2	5.2 7.8
(4) Tha Kok Tan Weir	1	0.0	6.0	1.8	7.8	6.0	1.8	7.c 3.9
(5) Khlong Tabock Regulator	1	0.0	3.0	0.9	3.9	3.0	0.9	
(6) Tha Phon Weir	1_	0.0	3.0	0.9	3.9	3.0	0.9	3.9
(7) Huai Pa Daeng Dam	*	18.7	13.6	4.1	17.7	13.6	4.1	17.7
(8) Hong Wan Regulator	1	0.0	5.0	1.5	6.5	5.0	1.5	6.5
(9) Huai Leng Dam		18.0	0.0	0.0	0.0	4.5	1.4	5.9
(10) Huai Nam Chang Dam		3.8	0.0	0.0	0.0	8.0	1.6	9.0
(11) Huai Na Dam		5.7	0.0	0.0	0.0	3.3	0.7	4.0
(12) Sub Manao Dam		0.9	0.0	0.0	0.0	5.0	1.0	6.0
(13) Nong Phai Tack		0.0	0.0	0.0	0.0	3.5	0.7	4
(14) Huai Hin Khao	_	0.0	0.0	0.0	,0.0	8.7	1.7	10.4
(15) SSIP	*	0.8	9.2	0.9	10.1	25.2	2.5	27.
(16) Pump		0.0	0.0	0.0	0.0	4.5	0.9	5.
Sub-total	┼┈	48.7	49.8	13.1	62.9	103.3	22.7	126.
5. Kong Basin		. 50 6		0.0	0.0	50.0	10.0	60.
(1) Khlong Lam Kong Dam		50.6	0.0	0.0	0.0	4.0	0.4	4.
(2) SSIP		0.0	0.0	0.0	0.0	4.0 1.5		1.
(3) Pump Sub-total		50.6	0.0	0.0	0.0	55.5	10.7	66.
6. Mae Khan Mi Basin	+-	50.0	0.0	1 0.0	 0.0		10.7	<u> </u>
(1) Khlong Si Thep Weir	1	0.0	3.0	0.9	3.9	3.0	0.9	3.
(2) Khlong Kraud Regulator	·	0.0	4.0	1.2	ī	4.0	1	5.
(3) Huai Yai Dam		13.3	0.0	0.0	B .	6.0		7.
(4) Nong Kan Jem		0.0	0.0	0.0		2.3		2.
(5) Bung Kra Chang		0.0	0.0	0.0		2.0	1 .	2.
(6) SSIP	*	1.6	10.7	1.1		26.7		29.
(0) SSIP (7) Pump	1	0.0	0.0	0.0		1.5		1
F 1111 M 1	- 1	0.0	0.0	1 0.0	1	1	1	1

Table 4.1.10 Existing and Future Irrigation Projects in Pasak Basin (2)

Project	Reservoir Capacity	Exist	ing Irrigation (10 ³ rai)	Агеа	Futu	re Irrigation <i>i</i> (10 ³ rai)	Area
	(MCM)	Wet	Dry	Total	Wet	Dry	Total
7. Mae Ta Basin							
(1) Kho Luak Weir	0.0	5.0	1.5	6.5	5.0	1.5	6.5
(2) Bang Doe Weir	0.0	5.0	1.5	6.5	5.0	1.5	6.5
(3) Huai Bong Dam	2.2	0.0	0.0	0.0	2.0	0.4	2.4
(4) Huai Yang Dam	2.4	0.0	0.0	0.0	3.5	0.7	4.2
(5) SSIP	* 0.2	5.0	0.5	5.5	13.0	1.3	14.3
(6) Pump	0.0	5.2	0.5	5.7	9.7	1.9	11.6
Sub-total	4.8	20.2	4.0	24.2	38.2	7.3	45.5
8. Huai Koh Kaew Basin	7.0	20.2					
(1) Huai Cha-Aim Dam	3.5	0.0	0.0	0.0	4.5	0.9	5.4
(2) SSIP	* 0.1	7.0	0.7	7.7	11.0	1.1	12.1
(3) Pump	0.0	6.2	0.6	6.8	6.2	1.2	7.4
Sub-total	3.6	13.2	1.3	14.5	21.7	3.2	24.9
9. Son Thi Basin	J	13.2	1.0	17.5	WX.1		21.7
(1) Lam Son-Thi Regulator	0.0	25.0	2.5	27.5	25.0	2.5	27.5
(2) Ban Khao Nom Nang Weir	0.0	3.7	0.4	4.1	3.7	0.4	4.1
(3) Kud Ta Phet Dam	32.0	0.0	0.0	0.0	0.0	0.0	0.0
(4) Lam Phaya Klang Regulator	0.0	0.0	0.0	0.0	7.0	1.4	8.4
(5) SSIP	* 3.4		1.3	13.8	36.5	3.7	40.2
(6) Pump	0.0	0.0	0.0	0.0	1.5	0.3	1.8
······································	35.4	41.2	4.2	45.4	73.7	8.3	82.0
Sub-total 10. Pasak Basin Part IV	33,4	41.2	7.2	43.4	1.0.1	0.5	02.0
(1) Lam Phak Kard Weir	0.0	4.0	0.4	4.4	4.0	0.4	4.4
	0.3	3.0	0.4	3.3	3.0	0.4	3.3
(2) Wang Ta Inn Dam	Ι.		0.9	9.9	9.0	0.9	9.9
(3) Huai Som Dam	* 12.5 * 785.0		0.9	0.0	0.0	0.0	0.0
(4) Pasak Dam	1	l .	1		55.0	11.0	66.0
(5) Phatthana Nikhom	0.0	1 .	0.0 0.0	0.0 0.0	80.0	16.0	96.0
(6) Kaeng Khoi-Ban Moh	0.0	1	1			0.3	1.7
(7) Huai Hin Dam	2.3	1	0.0	0.0 0.0	1.4 3.7	0.7	4.4
(8) Lam Phaya Mai Regulator	0.0	1	1		15.0	3.0	18.0
(9) Khlong Saun Madua Regulator	0.0		0.0	0.0	30.0		36.0
(10) Lopburi Water Provision	0.0		0.0	0.0		6.0	7.9
(11) Ban Tha Din Dam	0.0		0.0	0.0	6.6	1.3 2.1	12.3
(12) Ban Tha Kraud	0.0	0.0	0.0	0.0	10.2	,	
(13) Ban Tha Ta-Go	0.0 * 178		0.0	0.0	2.7	0.6	3.3
(14) SSIP	1	1	6.6	72.6	162.0	16.2	178.2
(15) Pump	0.0		0.8	8.9	12.6	2.5	15.1
Sub-total	817.9	90.1	9.0	99.1	395.2	61.3	456.5
11. Huai Mauk Lek Basin							
(1) Ban Wang Yang Weir	0.0	1. *	0.3	3.3	3.0	0.3	3.3
(2) Huai Muak Lek Dam	54.0		0.0	0.0	30.0	6.0	36.0
(3) SSIP	* 2.5		0.5	5.0	24.5	2.5	27.0
(4) Pump	0.0	******************	0.0	0.0	1.5	0.3	1.8
Sub-total	56.5	7.5	0.8	8.3	59.0	9.1	68.1
12. Lower Pasak Basin					۔ دود		
(1) Khlong Preow-Sao Hai	0.0	j .	4.1	139.4	135.3	4.1	139.4
(2) Khlong Song Khon	0.0	1 .	0.5	5.5	5.0	0.5	5.5
(3) Ban Dong Dam	10.0	1	0.0	0.0	10.0	2.0	12.0
(4) Ban Lahan	0.0		0.0	0.0	6.3	1.3	7.6
(5) SSIP	* 2.8		2.1	23.2	49.1	4.9	54.0
(6) Pump	0.0	20.9	2.1	23.0	22.4	4.5	26.9
Sub-total	12.8		8.8	191.1	228.1	17.3	245.4
Total	1,093.2	556.4	60.5	616.9	1,184.3	166.7	1,351.0

⁽²⁾ Reservoir capacity of the Pasak is 879.2 MCM in the existing and 1,093.2 MCM in future.

Table 4.1.11 Irrigation Area and Water Demand of Existing and Future Project in Upper Chao Phraya

(Unit: Area 10³rai Water MCM)

Processed Type	<u></u>											<u></u>	Jnit: Area	10³rai Wa	ter MCM)
Rever Masin A	Trans.			Ex	isting Imig	ation Proj	ect	F	uture Irriga	tion Proje	ct		Incr	ease	····
Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Contest Cont	nem	cu.n	√rai	Aı	ea	Water	Damand	Ai	rea	Water	Damand	Aı	rea	Water	Dansand
	Rever Basin &	Wet	Dry	Wet	Dry	Wet	Dry	Wet	Dry	Wet	Dry	Wet	Dry	Wet	Dry
(j) Al Ni Shation LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS LAMS	Project Type	①	2	3	④	⑤ =①×③	6=20×40	Ŷ	8	®=①×⑦	@ =②×®	ტ -③	® -∢	9- \$	109-66
LAMS	1. Upper Nan Basin														
Pump 1,000 1,600 4.57 3.0 4.57 4.8 6.71 1.3.3 6.71 21.2 21.4 10.3 21.4 10.5 21.6 12.5	(1) At N1 Station	İ								j		}			
Pump 1,000 1,000 4.57 3.0 4.57 4.8 6.71 3.13 3.7 2.15 2.14 1.02 2.14 1.02 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1	L/M/S	1,200	1,800	181.8	32.2	218.2	58.0	332.0	91.4	398.4	164.5	150.2	59.2	180.2	106.6
Total C	Pump	1,000	1,600	45.7	3.0	45.7	4.8	67.1	13.3	67.1	21.3	21.4	10.3	21.4	
(2) Al Sirkii Sing (Bool of Upper Nain) (LAMS 1,200 1,500 259,1 40,5 286,9 72,9 485,4 122,5 582,5 200,5 246,3 82,0 295,6 147,6 700,0 1,000 1,000 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0 7.1 66,0	Total			227.5	35,2	263.9	62.8	399.1	104.7				***************************************		*************
LMS L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200 L. 1, 200	(2) At Sirikit Site														
Pump 1,000 1,600 66.0 7.1 66.0 1.14 131.6 26.2 131.6 41.0 65.6 19.1 65.5 20.5	(End of Upper Nan)														
Total Lipper NaB	L/M/S	1,200	1,800	239.1	40.5	286.9	72.9	485.4	122.5	582.5	220.5	246.3	82.0	295.6	147.6
Clower Nan Basin Clower Nan Basin Clower Nan Basin Clower Nan Basin Clower Nan Basin Clower Nan Basin Clower Nan Basin Clower Nan Basin Clower Nan Basin Clower Nan Basin Clower Nan Basin Clower Nan Basin Clower Nan Basin Clower Nan Basin Clower Nan Basin Clower Nan Basin Clower Nan Basin Clower Nan Basin Clower Nan Basin Clower Nan Basin Clower Nan Basin Clower Nan Basin Clower Nan Basin Clower Nan Basin Clower Nan Basin Clower Nan Basin Clower Nan Basin Clower Nan Basin Clower Nan Basin Clower Nan Basin Clower Nan Basin Clower Nan Basin Clower Nan Basin Clower Nan Basin Clower Nan Basin Clower Nan Basin Clower Nan Basin Clower Nan Basin Clower Nan Basin Clower Nan Basin Clower Nan Basin Clower Nan Basin Clower Nan Basin Clower Nan Basin Clower Nan Basin Clower Nan Basin Clower Nan Basin Clower Nan Basin Clower Nan Basin Clower Nan Basin Clower Nan Basin Clower Nan Basin Clower Nan Basin Clower Nan Basin Clower Nan Basin Clower Nan Basin Clower Nan Basin Clower Nan Basin Clower Nan Basin Clower Nan Basin Clower Nan Basin Clower Nan Basin Clower Nan Basin Clower Nan Basin Clower Nan Basin Clower Nan Basin Clower Nan Basin Clower Nan Basin Clower Nan Basin Clower Nan Basin Clower Nan Basin Clower Nan Basin Clower Nan Basin Clower Nan Basin Clower Nan Basin Clower Nan Basin Clower Nan Basin Clower Nan Basin Clower Nan Basin Clower Nan Basin Clower Nan Basin Clower Nan Basin Clower Nan Basin Clower Nan Basin Clower Nan Basin Clower Nan Basin Clower Nan Basin Clower Nan Basin Clower Nan Basin Clower Nan Basin Clower Nan Basin Clower Nan Basin Clower Nan Basin Clower Nan Basin Clower Nan Basin Clower Nan Basin Clower Nan Basin Clower Nan Basin Clower Nan Basin Clower Nan Basin Clower Nan Basin Clower Nan Basin Clower Nan Basin Clower Nan Basin Clower Nan Basin Clower Nan Basin Clower Nan Basin Clower Nan	Pump	1,000	1,600	66.0	7.1	66.0	11.4	131.6	26.2	131.6	41.9	65.6	19.1	65.6	30.6
(I) Al Nareman Barrage Phismanick (I) L/MS L/MS L/MS L/MS L/MS L/MS L/MS L/MS	I otal, Upper Nan			305.1	47.6	352.9	84.3	617.0	148.7	714.1	262.4	311.9	101.1	361.2	178.2
Phitamalok (1), L/McS 1,200 1,800 667.1 400.2 800.5 720.4 667.1 400.2 800.5 720.4 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 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 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 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 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 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 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 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 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 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 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 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	2. Lower Nan Basin														
Phits-analok (2), I.AMS 1,200 1,800 0.0 0.0 0.0 0.0 0.0 500.0 250.0 600.0 450.0 500.0 250.0 600.0 450.0 1.AMS 1.AMS 1.200 1,800 233.4 48.6 280.1 875 324.6 60.4 89.5 108.7 812.1 118 109.4 212.5 DEDP New Pump 1,000 1,600 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	(1) At Naresuan Barrage														
Phits-analok (2), I.AMS 1,200 1,800 0.0 0.0 0.0 0.0 0.0 500.0 250.0 600.0 450.0 500.0 250.0 600.0 450.0 1.AMS 1.AMS 1.200 1,800 233.4 48.6 280.1 875 324.6 60.4 89.5 108.7 812.1 118 109.4 212.5 DEDP New Pump 1,000 1,600 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	Phitsamulok (1), L/M/S	1,200	1,800	667.1	400.2	800.5	720.4	667.1	400.2	800.5	720.4	0.0	0.0	0.0	0.0
LMS 1,200 1,800 233.4 48.6 280.1 87.5 324.6 60.4 389.5 108.7 91.2 11.8 109.4 21.2 Existing Pump 1,000 1,600 0.4 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 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 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 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 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 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 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 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 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 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 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 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										ľ			•		
Existing Pump 1,000 1,600 253.4 76.7 253.4 122.7 305.3 152.6 305.3 244.2 51.9 75.9 51.9 121.5 DEDP New Pump 1,000 1,600 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	`′		-	· ·		1									
DEDP New Pump 1,000				ŀ		1				1		i			
Total	* '	-				l				1					
(2) Total Lower Nan Phitsanalok (1), L/M/S 1,200 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800 1,800			-	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	******	************	***************************************		*****************		**************	**************		***************************************	
Philismulok (1), I/M/S										_,_,_,		- 1012	-27.17		-,2.,
Philsamalok (2), I/M/S	. ` ′	1,200	1.800	667.1	400.2	800.5	720.4	667.1	400.2	800.5	720.4	0.0	0.0	0.0	0.0
Limis 1,200 1,800 738.3 140.4 886.0 252.7 1,674.0 438.1 2,008.8 786.6 935.7 297.7 1,122.8 535.9 Eisiting Pump 1,000 1,600 301.6 122.4 391.6 195.8 485.6 242.8 485.6 388.5 94.0 120.4 94.0 192.6 DEDP New Pump 1,000 1,600 0.00 0.00 0.00 0.00 0.00 0.00 0.00				[1				1		!			
Existing Pump 1,000 1,600 991.6 122.4 391.6 195.8 485.6 242.8 485.6 388.5 94.0 120.4 94.0 192.6 DEDP New Pump 1,000 1,600 0.0 0.0 0.0 0.0 0.0 200.0 100.0 200.0 160.0 200.0 100.0 200.0 160.0 100.1 100.1 100.1 100.1 100.1 100.0 1,000 1.600 0.0 0.0 0.0 0.0 0.0 0.0 100.0 200.0 160.0 200.0 160.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 1.600 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 10	, , ,	-	•	l .						1				1	
DEDP New Fump 1,000 1,600 0.0 0.0 0.0 0.0 0.0 0.0 200.0 160.0 200.0 160.0 200.0 160.0 200.0 160.0 200.0 160.0 200.0 160.0 200.0 160.0 200.0 160.0 200.0 160.0 200.0 160.0 200.0 160.0 200.0 160.0 200.0 160.0 200.0 160.0 200.0 160.0 200.0 160.0 200.0 160.0 200.0 160.0 200.0 160.0 200.0 160.0 200.0 160.0 200.0 160.0 200.0 160.0 200.0 160.0 200.0 160.0 200.0 160.0 200.0 160.0 200.0 160.0 200.0 160.0 200.0 160.0 200.0 160.0 200.0 160.0 200.0 160.0 200.0 160.0 200.0 160.0 200.0 160.0 200.0 160.0 200.0 160.0 200.0 160.0 200.0 160.0 200.0 160.0 200.0 160.0 200.0 160.0 200.0 160.0 200.0 160.0 200.0 160.0 200.0 160.0 200.0 160.0 200.0 160.0 200.0 160.0 200.0 160.0 200.0 160.0 200.0 160.0 200.0 160.0 200.0 160.0 200.0 160.0 200.0 160.0 200.0 160.0 200.0 160.0 200.0 160.0 200.0 160.0 200.0 160.0 200.0 160.0 200.0 160.0 200.0 160.0 200.0 160.0 200.0 160.0 200.0 160.0 200.0 160.0 200.0 160.0 200.0 160.0 200.0 160.0 200.0 160.0 200.0 160.0 200.0 160.0 200.0 160.0 200.0 160.0 200.0 160.0 200.0 160.0 200.0 160.0 200.0 160.0 200.0 160.0 200.0 160.0 200.0 160.0 200.0 160.0 200.0 160.0 200.0 160.0 200.0 160.0 200.0 160.0 200.0 160.0 200.0 160.0 200.0 160.0 200.0 160.0 200.0 160.0 200.0 150.0 200.0 150.0 200.0 200.0 200.0 200.0 200.0 200.0 200.0 200.0 200.0 200.0 200.0 200.0 200.0 200.0 200.0 200.0 200.0 200.0 200.0 200.0 200.0 200.0 200.0 200.0 200.0 200.0 200.0 200.0 200.0 200.0 200.0 200.0 200.0 200.0 200.0 200.0 200.0 200.0 200.0 200.0 200.0 200.0 200.0 200.0 200.0 200.0 200.0 200.0 200.0 200.0 200.0 200.0 200.0 200.0 200.0			_	İ		1				1				· ·	
Total										1					
Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Colo			***************************************	interested the last		***********	nem ver ver ver ver			and the second	***********	2501100100000000	ekkonomien en en en en en en en en en en en en e	CONTRACTOR (SECTION	TIPHER PROPERTY
(I) Upper Ping at Blaumbol dam L/M/S 1,200 1,800 1,600 46.0 46.0 46.0 47.4 58.8 11.7 58.8 18.7 12.8 7.1 12.8 11.4 Total (2) Total Lower Ping L/M/S 1,200 1,800 623.8 148.5 748.6 267.3 1,109.0 299.4 1,330.8 538.9 485.2 150.9 582.2 271.6 Pump 1,000 1,600 104.5 10.4 104.5 16.6 154.3 77.2 154.3 123.5 49.8 66.8 49.8 106.9 Total Total (3) Total L/M/S 1,200 1,800 893.1 181.0 1,717.7 325.8 1,757.0 426.7 2,108.4 768.1 865.9 245.7 1,036.7 442.3 Pump 1,000 1,600 76.3 7.7 76.3 12.3 110.8 51.9 110.8 83.0 34.5 44.2 34.5 70.7 Total L/M/S 1,200 1,800 893.1 181.0 1,071.7 325.8 1,757.0 426.7 2,108.4 768.1 865.9 245.7 1,036.7 442.3 S. Wang Basin L/M/S 1,200 1,800 479.5 78.5 575.4 141.3 802.2 127.8 962.6 230.0 322.7 49.3 387.2 887.7 Fump 1,000 1,600 7.0 83.4 685.2 150.1 899.9 133.4 1,040.3 255.0 346.1 59.4 10.1 223.4 16.2 Total S. Sakac Krang Basin L/M/S 1,200 1,800 873.0 83.4 869.2 150.1 829.9 133.4 1,040.3 255.0 346.1 59.4 10.6 10.4 10.4 10.4 10.4 10.4 10.4 10.4 10.4					**********			*************	*************		···	30 3 00,700000	***************************************		<u> </u>
L/M/S	· •	dam		1								·			
Pump 1,000 1,600 46.0 46.0 46.0 7.4 58.8 11.7 58.8 18.7 12.8 7.1 12.8 11.4 Total	i ',' ''	1	1.800	1.104.1	257.4	1.324.9	463.3	1.868.1	409.0	2 241.7	736.2	764.0	151.6	016.8	272 0
Total (2) Total Lower Ping L/M/S	· i			· ·				-		1		i			
(2) Total Lower Ping L/M/S Pump 1,000 1,600 104.5 10.4 104.5 10.4 104.5 10.6 104.5 104.1 104.5 105.0 104.1 104.5 105.0 104.1 104.5 105.0 104.1 104.5 105.0 104.1 104.5 105.0 104.1 104.5 105.0 104.1 104.5 105.0 104.1 104.5 105.0 104.1 104.5 105.0 104.1 104.5 105.0 104.1 104.5 105.0 104.1 104.5 105.0 104.1 104.5 105.0 104.1 104.5 105.0 104.1 104.5 105.0 104.1 104.5 105.0 104.1 104.5 105.0 104.1 104.5 105.0 104.1 104.5 105.0 104.1 104.5 105.0 104.1 105.0 106.0 104.5 105.0 104.5 105.0 106.0 104.5 106.0 104.5 106.0 104.5 106.0 104.5 106.0 104.5 106.0 104.5 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 106.0 1		.,	.,		******************************	to the transfer	ununun unter	**********		and the second		80000000000000000000000000000000000000		************	
L/M/S												***********			
Pump 1,000 1,600 104.5 10.4 104.5 16.6 154.3 77.2 154.3 123.5 49.8 66.8 49.8 106.9 Total 728.3 158.9 853.1 283.9 1,263.3 376.6 1,485.1 662.4 535.0 217.7 632.0 378.5 4.7 m Basin L/M/S Pump 1,000 1,600 76.3 7.7 76.3 12.3 110.8 51.9 110.8 83.0 34.5 44.2 34.5 70.7 Total 96.9 1.000 1,600 76.3 7.7 76.3 12.3 110.8 51.9 110.8 83.0 34.5 44.2 34.5 70.7 Total 96.9 1.000 1,600 76.3 7.8 555.4 141.3 802.2 127.8 962.6 230.0 322.7 49.3 387.2 88.7 Pump 1,000 1,600 54.3 5.5 54.3 8.8 77.7 15.6 77.7 25.0 23.4 10.1 23.4 16.2 Total 5. Sakae Krang Basin L/M/S Pump 1,000 1,600 54.3 65.5 54.3 8.8 77.7 15.6 77.7 25.0 23.4 10.1 23.4 16.2 Total 5. Sakae Krang Basin L/M/S Pump 1,000 1,600 7.0 1.4 7.0 2.2 13.5 2.8 13.5 4.5 6.5 1.4 6.5 2.2 Total 378.0 84.8 692.2 152.4 835.6 146.2 1,000.0 262.6 257.6 61.4 307.8 110.8 Pump 1,000 1,600 7.0 1.4 7.0 2.2 13.5 2.8 13.5 4.5 6.5 1.4 6.5 2.2 Total 378.0 84.8 692.2 152.4 835.6 122.3 326.2 1,232.3 845.1 466.6 369.1 486.6 590.6 Grand Total 6.00 7.6 1.4 7.0 2.2 13.5 2.8 13.5 4.5 6.5 1.4 6.5 2.2 Total 578.0 378.0 84.8 692.2 152.4 835.6 122.3 326.2 1,232.3 845.1 466.6 369.1 486.6 590.6 Grand Total 6.00 7.0 1.4 7.0 2.2 13.5 2.8 13.5 1.5 4.5 6.5 1.4 6.5 590.6 Grand Total 6.00 7.0 1.4 7.0 2.2 13.5 2.8 13.5 1.2 2.8 13.5 1.4 66.6 369.1 486.6 590.6 Grand Total 6.00 7.0 1.4 7.0 7.2 2.4 152.3 326.2 1,232.3 845.1 466.6 369.1 486.6 590.6 Grand Total 6.00 1.600 7.0 1.4 7.0 7.2 2.4 152.3 326.2 1,232.3 845.1 466.6 369.1 486.6 590.6 Grand Total 6.00 1.600 7.0 1.4 7.0 7.2 2.4 152.4 835.6 1.2 2.3 326.2 1,232.3 845.1 466.6 369.1 486.6 590.6 Grand Total 6.00 1.600 7.0 1.4 7.0 7.2 2.4 152.4 835.6 1.2 2.3 326.2 1,232.3 845.1 466.6 369.1 486.6 590.6 Grand Total 7.00 1.600 7.0 1.4 7.0 7.2 2.4 152.4 835.6 1.2 2.3 326.2 1,232.3 845.1 466.6 369.1 486.6 590.6 Grand Total 7.00 1.600 7.0 1.4 7.0 7.2 2.4 152.4 835.6 1.2 2.3 326.2 1,232.3 845.1 466.6 369.1 486.6 590.6 Grand Total 7.00 1.600 7.0 1.4 7.0 7.2 2.4 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4	\ ' /	1.200	1.800	623.8	148 5	748 6	267.3	1 100 0	200 4	1 330 8	538 0	185.5	150.0	502.2	271.6
Total 1,200 1,800 893.1 181.0 1,071.7 325.8 1,757.0 426.7 2,108.4 768.1 863.9 245.7 1,036.7 442.3 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.9 442.								. ,		1 -					
4. Yom Basin L/M/S Pump 1,000 1,600 76.3 7.7 76.3 12.3 110.8 51.9 110.8 83.0 34.5 44.2 34.5 70.7 70.1 70.1 5. Wang Basin L/M/S Pump 1,000 1,600 76.3 7.7 76.3 12.3 110.8 51.9 110.8 83.0 34.5 44.2 34.5 70.7 70.7 32.6 83.1 1,148.0 338.1 1,367.8 478.0 2,219.2 851.1 898.4 289.9 1,071.2 513.0 5. Wang Basin L/M/S Pump 1,000 1,600 54.3 55.5 54.3 8.8 77.7 15.6 77.7 25.0 23.4 10.1 23.4 10.1 23.4 10.2 23.4 10.2 23.4 10.1 23.4 10.2 34.1 10.4 353.8 34.0 629.7 150.1 879.9 143.4 1,040.3 255.0 346.1 59.4 410.0 104.9 6. Sakze Krang Basin L/M/S Pump 1,000 1,600 7.0 1.4 7.0 2.2 13.5 2.8 13.5 4.5 6.5 1.4 6.5 2.2 10.0 1,000 262.6 257.6 61.4 207.8 110.2 110.8 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,000 1,		1,000	*,000	TOTAL STREET, THE STREET, THE STREET, THE STREET, THE STREET, THE STREET, THE STREET, THE STREET, THE STREET,		tanamanana							**********	Water Commencer	CONTRACTOR OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE
L/M/S Pump 1,000 1,600 76.3 7.7 76.3 12.3 110.8 51.9 110.8 83.0 34.5 44.2 34.5 70.7 Total 969.4 188.7 1,148.0 338.1 1,367.8 478.6 2,219.2 851.1 398.4 289.9 1,071.2 513.0 S. Wang Basin L/M/S 1,200 1,800 479.5 78.5 575.4 141.3 802.2 127.8 962.6 230.0 322.7 49.3 387.2 88.7 Pump 1,000 1,600 54.3 5.5 54.3 8.8 77.7 15.6 77.7 25.0 23.4 10.1 23.4 16.2 Total 5. Sakae Krang Basin L/M/S 1,200 1,800 571.0 83.4 685.2 150.1 822.1 143.4 986.5 258.1 251.1 60.0 301.3 108.0 Pump 1,000 1,600 7.0 1.4 7.0 2.2 13.5 2.8 13.5 4.5 6.5 1.4 6.5 2.2 Total 578.0 84.8 692.2 152.4 835.6 146.2 1,000.0 262.4 257.6 81.4 307.8 110.2 L/M/S Pump 1,000 1,600 7.0 1.4 7.0 2.2 13.5 2.8 13.5 4.5 6.5 1.4 6.5 2.2 Total 578.0 84.8 692.2 152.4 835.6 146.2 1,000.0 262.4 257.6 81.4 307.8 110.2 L/M/S Pump 1,000 1,600 7.0 1.4 7.0 2.2 13.5 2.8 13.5 4.5 6.5 1.4 6.5 2.2 Total 578.0 84.8 692.2 152.4 835.6 146.2 1,000.0 262.4 257.6 81.4 307.8 110.2 L/M/S Pump 1,000 1,600 7.0 1.4 7.0 2.2 13.5 2.8 13.5 4.5 6.5 1.4 6.5 2.2 Total 578.0 84.8 692.2 152.4 835.6 146.2 1,000.0 262.4 257.6 81.4 307.8 110.2 L/M/S Pump 1,000 1,600 516.0 56.5 619.2 101.7 1,119.9 153.9 1,343.9 277.0 603.9 97.4 724.7 175.3 Pump 1,000 1,600 40.4 4.0 40.4 6.4 64.4 12.8 64.4 20.5 24.0 8.8 24.0 14.1		*************		*************	*****			**********					2002 44.1 010		************
Pump 1,000 1,600 76.3 7.7 76.3 12.3 110.8 51.9 110.8 83.0 34.5 44.2 34.5 70.7 Total 969.4 188.7 1,148.0 338.1 1,867.8 478.6 2,219.2 851.1 898.4 289.9 1,071.2 513.0 5. Wang Basin L/M/S 1,200 1,800 479.5 78.5 575.4 141.3 802.2 127.8 962.6 230.0 322.7 49.3 387.2 88.7 Pump 1,000 1,600 54.3 5.5 54.3 8.8 77.7 15.6 77.7 25.0 23.4 10.1 23.4 16.2 Total 5. Sakae Krang Basin L/M/S 1,200 1,800 571.0 83.4 685.2 150.1 822.1 143.4 986.5 258.1 251.1 60.0 301.3 108.0 Pump 1,000 1,600 7.0 1.4 7.0 2.2 13.5 2.8 13.5 4.5 6.5 1.4 6.5 2.2 Total 578.0 84.8 692.2 152.4 835.6 146.2 1,000 262.6 257.6 61.4 307.8 110.2 L/M/S 5316.0 1,329.9 6,379.2 2,393.8 9,684.9 2,617.3 11,621.9 4,710.8 4,368.9 1,287.2 3,242.7 2,317.0 Pump 745.7 159.1 745.7 254.8 1,232.3 328.2 1,232.3 845.1 486.6 369.1 486.6 590.6 Grund Total 6,061.7 1,489.0 7,124.9 2,648.4 10,917.2 3,145.3 12,854.2 5,355.9 4,855.3 1,656.3 5,729.3 2,907.5 Passak Basin L/M/S 1,200 1,800 516.0 56.5 619.2 101.7 1,119.9 153.9 1,343.9 277.0 603.9 97.4 724.7 175.3 Pump 1,000 1,600 40.4 4.0 40.4 6.4 64.4 12.8 64.4 20.5 24.0 8.8 24.0 14.1		1 200	1.800	803.1	191.0	1 071 7	225 8	1 757 0	426.7	2 109 4	740 1	967.0	2457	1.026.7	
Total 969.4 188.7 1,148.0 338.1 1,867.8 476.6 2,219.2 851.1 898.4 289.9 1,071.2 513.0 5. Wang Basin L/M/S 1,200 1,800 479.5 78.5 575.4 141.3 802.2 127.8 962.6 230.0 322.7 49.3 387.2 88.7 Pump 1,000 1,600 54.3 5.5 54.3 8.8 77.7 15.6 77.7 25.0 23.4 10.1 23.4 16.2 Total 533.8 84.0 629.7 150.1 879.9 143.4 1,040.3 255.0 346.1 59.4 410.6 104.9 6. Sakae Krang Basin L/M/S 1,200 1,800 571.0 83.4 685.2 150.1 822.1 143.4 986.5 258.1 251.1 60.0 301.3 108.0 Pump 1,000 1,600 7.0 1.4 7.0 2.2 13.5 2.8 13.5 4.5 6.5 1.4 6.5 2.2 Total 578.0 84.8 692.2 152.4 835.5 146.2 1,000.0 262.6 257.6 61.4 307.8 110.2 L/M/S 5,316.0 1,329.9 6,379.2 2,393.8 9,684.9 2,617.1 11,621.9 4,710.8 4,366.9 1,287.2 3,242.7 2,317.0 Pump 7,45.7 159.1 745.7 254.8 10.917.2 3,145.3 12,854.2 3,385.9 4,855.5 1,656.9 5,729.3 2,907.3 7. Pasak Basin L/M/S 1,200 1,800 516.0 56.5 619.2 101.7 1,119.9 153.9 1,343.9 277.0 603.9 97.4 724.7 175.3 Pump 1,000 1,600 40.4 4.0 40.4 6.4 64.4 12.8 64.4 20.5 24.0 8.8 24.0 14.1				i .		1		-						· ·	
5. Wang Basin L/M/S 1,200 1,800 479.5 78.5 575.4 141.3 802.2 127.8 962.6 230.0 322.7 49.3 387.2 88.7 Pump 1,000 1,600 54.3 5.5 54.3 8.8 77.7 15.6 77.7 25.0 23.4 10.1 23.4 16.2 Total 5. Sakae Krang Basin L/M/S 1,200 1,800 571.0 83.4 685.2 150.1 822.1 143.4 986.5 258.1 251.1 60.0 301.3 108.0 Pump 1,000 1,600 7.0 1.4 7.0 2.2 13.5 2.8 13.5 4.5 6.5 1.4 6.5 2.2 Total 5. 70		1,000	1,000	(2002)		***********		2027/2020/2020	Station communities			200000000000000000000000000000000000000		**************************************	Contract to the second
L/M/S				202.4	400.4	1,140.0	22041	1,0000	470.0	×4219.2	901+1	0×0×4	209.9	1,071.2	อเวม
Pump 1,000 1,600 54.3 5.5 54.3 8.8 77.7 15.6 77.7 25.0 23.4 10.1 23.4 16.2 Total 533.8 84.0 629.7 150.1 879.9 143.4 1,040.3 255.0 346.1 59.4 410.6 104.9 6. Sakae Krang Basin 1/M/S 1,200 1,800 571.0 83.4 685.2 150.1 822.1 143.4 986.5 258.1 251.1 60.0 301.3 108.0 Pump 1,000 1,600 7.0 1.4 7.0 2.2 13.5 2.8 13.5 4.5 6.5 1.4 6.5 2.2 Total 578.0 84.8 692.2 152.4 835.6 146.2 1,000.0 262.6 257.6 81.4 307.8 110.2 1/M/S 5,316.0 1,329.9 6,379.2 2,393.8 9,684.9 2,617.1 11,621.9 4,710.8 4,368.9 1,287.2 5,242.7 2,317.0 Pump 745.7 159.1 745.7 254.8 1,232.3 328.2 1,232.3 845.1 486.6 369.1 486.6 590.8 Grand Total 7048 745.7 159.1 745.7 254.8 1,232.3 328.2 1,232.3 845.1 486.6 369.1 486.6 590.8 Grand Total 1,200 1,800 516.0 56.5 619.2 101.7 1,119.9 153.9 1,343.9 277.0 603.9 97.4 724.7 175.3 Pump 1,000 1,600 40.4 4.0 40.4 6.4 64.4 12.8 64.4 20.5 24.0 8.8 24.0 14.1	*	1 200	. 1 900	470.6	70 6	E7E 4	141.0	803.3	107.6	060.6			40.0		
Total 533.8 84.0 629.7 150.1 879.9 143.4 1,040.3 255.0 346.1 59.4 410.6 104.9 6. Sakae Krang Basin 1/M/S 1,200 1,800 571.0 83.4 685.2 150.1 822.1 143.4 986.5 258.1 251.1 60.0 301.3 108.0 Pump 1,000 1,600 7.0 1.4 7.0 2.2 13.5 2.8 13.5 4.5 6.5 1.4 6.5 2.2 Total 578.0 84.8 692.2 152.4 835.6 146.2 1,000.0 262.6 257.6 61.4 307.8 110.2 1/M/S 5,316.0 1,329.9 6,379.2 2,393.8 9,684.9 2,617.1 11,621.9 4,710.8 4,368.9 1,287.2 5,242.7 2,317.0 Pump 745.7 139.1 745.7 254.8 1,232.3 528.2 1,232.3 845.1 486.6 369.1 486.6 590.6 Grand Total 6,061.7 1,489.0 7,124.9 2,648.4 10,917.2 3,145.3 12,854.2 5,555.9 4,855.5 1,656.3 5,729.3 2,907.5 7. Pasak Basin 1/M/S 1,000 1,600 40.4 4.0 40.4 6.4 64.4 12.8 64.4 20.5 24.0 8.8 24.0 14.1	*			1						1					
6. Sakae Krang Basin 1./M/S 1,200 1,800 571.0 83.4 685.2 150.1 822.1 143.4 986.5 258.1 251.1 60.0 301.3 108.0 Pump 1,000 1,600 7.0 1.4 7.0 2.2 13.5 2.8 13.5 4.5 6.5 1.4 6.5 2.2 Total Total 578.0 84.8 692.2 152.4 835.6 146.2 1,000.0 262.6 257.6 61.4 307.8 110.2 L/M/S 5,316.0 1.329.9 6,379.2 2,393.8 9,684.9 2,617.1 11,621.9 4,710.8 4,368.9 1,287.2 5,242.7 2,317.0 Pump 745.7 139.1 745.7 254.8 1,232.3 328.2 1,232.3 845.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.1 486.6 369.		1,000	1,000	ndtrascastavens,		\$6000000000000000000000000000000000000	***********	**************	7000000000000000000000000000000000000	terment men	tana kana kana ka		Woodsan		
1/M/S 1,200 1,800 571.0 83.4 685.2 150.1 822.1 143.4 986.5 258.1 251.1 60.0 301.3 108.0				333.6	84.0	6297	130.1	379.9	143.4	1,040.3	బయి	346.1	59.4	410.6	104.9
Pump 1,000 1,600 7.0 1.4 7.0 2.2 13.5 2.8 13.5 4.5 6.5 1.4 6.5 2.2 Total 578.0 84.8 692.2 152.4 835.6 146.2 1,000.0 262.6 257.6 61.4 307.8 110.2 L/M/S 5316.0 1.529.9 6.379.2 2,393.8 9,684.9 2,617.1 11,621.9 4,710.8 4368.9 1,287.2 5,242.7 2,317.0 Pump 745.7 159.1 745.7 254.6 1,232.3 328.2 1,232.3 845.1 486.6 369.1 486.6 590.6 Grand Total 6,061.7 1,489.0 7,124.9 2,648.4 10,917.2 3,145.3 12,854.2 5,385.9 4,855.5 1,656.3 5,729.3 2,907.3 7. Pasak Basin L/M/S 1,200 1,800 516.0 56.5 619.2 101.7 1,119.9 153.9 1,343.9 277.0 603.9 97.4 724.7 175.3 Pump 1,000 1,600 40.4 4.0 40.4 6.4 64.4 12.8 64.4 20.5 24.0 8.8 24.0 14.1	ı	1 000	1 800	677.0	54.	-0							40.0		
Total 578.0 84.8 692.2 152.4 835.6 146.2 1,000.0 262.6 257.6 61.4 307.8 110.2 L/M/S 5316.0 1.529.9 6,379.2 2,393.8 9,684.9 2,617.1 11,621.9 4,710.8 4,368.9 1,287.2 5,242.7 2,317.0 Pump 745.7 159.1 745.7 254.8 1,232.3 328.2 1,232.3 845.1 486.6 369.1 486.6 590.6 Grand Total 6,061.7 1,489.0 7,124.9 2,648.4 10,917.2 3,145.3 12,854.2 5,355.9 4,855.5 1,656.3 5,729.3 2,907.5 7. Pasak Basin L/M/S 1,200 1,800 516.0 56.5 619.2 101.7 1,119.9 153.9 1,343.9 277.0 603.9 97.4 724.7 175.3 Pump 1,000 1,600 40.4 4.0 40.4 6.4 64.4 12.8 64.4 20.5 24.0 8.8 24.0 14.1		l												Ì	
L/M/S 5,316.0 1.329.9 6,379.2 2.393.8 9,684.9 2,617.1 11,621.9 4,710.8 4,368.9 1,287.2 5,242.7 2,317.0 Pump		1,000	1,000	200000000000000000000000000000000000000	datas an antesa	***********	20 53000000000000	***************************************						variety (through)	***********
Pump . 745.7 159.1 745.7 254.6 1,232.3 528.2 1,232.3 845.1 486.6 369.1 486.6 590.6 Grand Total 6,061.7 1,489.0 7,124.9 2,648.4 10,917.2 3,145.3 12,854.2 5,355.9 4,855.5 1,656.3 5,729.3 2,907.8 7. Pasak Basin L/M/S 1,200 1,800 516.0 56.5 619.2 101.7 1,119.9 153.9 1,343.9 277.0 603.9 97.4 724.7 175.3 Pump 1,000 1,600 40.4 40.4 6.4 64.4 12.8 64.4 20.5 24.0 8.8 24.0 14.1						00000000000000000000000000000000000000						G0000000000000000000000000000000000000		*************	110.2
Grand Total : 6,061.7 1.489.0 7.124.9 2.648.4 10.917.2 3,145.3 12.854.2 5,555.9 4.855.5 1.656.3 5,729.3 2,907.5 7. Pasak Basin L/M/S 1,200 1,800 516.0 56.5 619.2 101.7 1,119.9 153.9 1,343.9 277.0 603.9 97.4 724.7 175.3 Pump 1,000 1,600 40.4 4.0 40.4 6.4 64.4 12.8 64.4 20.5 24.0 8.8 24.0 14.1										************					2317.0
7. Pasak Basin L/M/S 1,200 1,800 516.0 56.5 619.2 101.7 1,119.9 153.9 1,343.9 277.0 603.9 97.4 724.7 175.3 Pump 1,000 1,600 40.4 4.0 40.4 6.4 64.4 12.8 64.4 20.5 24.0 8.8 24.0 14.1	######################################		•		*******************************					0.0000000000000000000000000000000000000		******************			590.6
L/M/S 1,200 1,800 516.0 56.5 619.2 101.7 1,119.9 153.9 1,343.9 277.0 603.9 97.4 724.7 175.3 Pump 1,000 1,600 40.4 4.0 40.4 6.4 64.4 12.8 64.4 20.5 24.0 8.8 24.0 14.1				6,061,7	1,489.0	7.124.9	2,648,4	10,917.2	3,145 3	12,854.2	5,555,9	4,855.5	656.3	5,729.3	2,907.5
Pump 1,000 1,600 40.4 4.0 40.4 6.4 64.4 12.8 64.4 20.5 24.0 8.8 24.0 14.1						ļ]			i		
200 200 270 1711		i											97.4	724.7	175.3
Total - 556.4 60.5 659.6 108.1 1,184.3 166.7 1,408.3 297.5 627.9 106.2 748.7 189.4		*************	*		*****************				12.8	****************	20.5	24.0	8.8	24.0	14.1
	Total			556.4	60.5	659.6	108.1	1,184.3	166.7	1,408.3	297.5	627.9	106.2	748.7	189.4

Remarks, L/M/S; Large, Medium and Small scale Projects.

Table 4.1.12 Staged Development in the Upper Nan Basin

	Tyr	e of Irrigation I	roject (Area in ra	ni)	River Runc	ff (MCM)
Year	Large/Medium	Small Scale	DEDP Pump	Others	N1 Station	Sirikit Inflow
1936	0	0	0	0		
1937	0	0	0	0		
1938	0	. 0	0	0		
1939	0	0	0	0		
1940	0	0	0	o		
1941	0	0	0	0	J	
	0	0	0	0	· · · · · · · · · · · · · · · · · · ·	
1942		0	0	0		
1943	0			0		
1944	0	0	0			~~~
1945	0	0	0	0		
1946	0	0	0			
1947	0	0	0	0		
1948	0	0	0	0		
1949	0	0	0	0		
1950	0	0	0	0		
1951	0	0	0	0	3,558.9	
1952	0	0	0	0	4,574.3	
1953	0	0	0	0	2,757.6	
1954	0	0	0	0	1,909.5	
1955	0	0	0	0	3,506.6	
1956	. 0	0	0	0	3,161.2	
1957	. 0	0	0	0	2,465.1	
1958	0	0	0	0	1,386.3	
1959	0	0	0	0	3,025.8	
1960		0	0	0	2,877.8	
1961	0	0	0	ol	2,898.1	-
1962	0	0		0	2,165.2	
1963	0	0	!	0	3,631.3	
	0	0		0	2,493.2	
1964		0		0	1,760.9	
1965	<u>-</u>		ţ		2,626.0	·
1966		0	 	. 0		
1967	· · · · · · · · · · · · · · · · · · ·	1,650		0	2,023.3	
1968		1,650		0		
1969		1,650		0	1,958.5	
1970		1,650		0	· 4,747.7	9,53
1971	83,300	1,650		0	2,876.0	6,43
1972		1,650		0	1,888.4	
1973					2,494.7	
1974	83,300	1,650	0	0	1,341.7	
1975	94,500	1,650	0	0	2,951.5	
1976	94,500	1,650	0	0	1,978.9	
197			0	0	1,437.0	
1978				0	2,141.6	
1979				0	1,850.0	3,68
1980				1	4,043.6	6,30
198					3,933.9	
198		1		· · · · · · · · · · · · · · · · · · ·	3,004.7	
198						
198		·				
198						
198						
198				<u>-</u>		
198						
198						
199						
199					***************************************	
199						
199						
	4 131,30	0 105,77				
199						ር፤ ለኅኅ
199 199		0 105,77 0 106,17				

Table 4.1.13 Staged Development in the Lower Nan Basin

	Table 4.1.13		Developme			
L			roject (Area in r	ai)	River Runof	
		mall Scale	DEDP Pump	Others	N24 Station	N7 Station
1936	0	0	0	0		
1937	0	0	0	0		
1938	0	0		0		
1939	0	0	0	0		
1940	0	0	0	0		
1941	0	0	0	0		
1942	0	0	0			
1943 1944	0	0	0	0		
1944	0	0	0	0		
1945	0	0	0	0		
1947	- 0	0	0	0		
1947	<u>ö</u>	0	0	0		
1949	<u>0</u>	0	Ö	∤		
1950	0		0	1		
1951	4,500	3,000	0			15,274.0
1952	4,500	3,500	0			12,919.0
1953	57,500	4,000	Ů O	}		11,983.0
1954	62,500	4,000	0	-		8,102.0
1955	62,500	5,000	0			9,692.0
1956	62,500	5,000	0	0		11,789.0
1957	62,500	5,000	0			8,026.0
1958	62,500	5,000	0	0		6,153.0
1959	62,500	5,000		0		9,684.0
1960	62,500	5,000	C	0		8,791.0
1961	92,500	5,000	C	0		13,288.0
1962	102,500	5,000	(8,638.0
1963	102,500	5,000		· · · · · · · · · · · · · · · · · · ·		11,773.0
1964		5,000				10,025.0
1965	102,500	5,000			627.3	6,450.0
1966		5,000		·	780.8	8,605.0
1967	112,500	7,250			386.4	6,873.0
1968		7,350		- 	643.4	6,129.0
1969		7,350			661.9	7,631.0
1970		7,350			858.8	13,901.0
1971		7,350			529.5	7,645.0
1972		7,350		0	393.9	5,113.0
1973		7,350		0		5,389.0
1974		7,350	·	2 0	447.5	8,280.
1975		7,350		0	931.7	14,288.0
1976		7,350		0	1,060.8	13,221. 9,756.
1977		9,870		0 0	643.7 1,131.8	12,500.
1978		12,620				8,464.
1979 1980		25,147 32,747			1	11,664.
		38,10				13,037.
1981 1982		46,15				9,472.
1983	- }	51,60				8,864.
1984		57,15		— 		10,030.
1985		77,15				10,475.
1986		86,28				8,654.
1987		96,28				6,275.
198		102,98				4,561.
1989		109,03				5,471.
199		114,63				
199		122,76			·	
199		125,36				<u>-</u>
199		137,27				5,350
199		138,67				
199		140,47				
199		146,61				
199		146,61				

Table 4.1.14 Staged Development in the Ping Basin

1936 1937 1938 1939 1940 1941 1942 1943 1944 1945 1946 1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959 1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980	Tyr arge/Medium 70,000 70,000 70,000 70,000 70,000 114,900 114,900 114,900 114,900 114,900 114,900 114,900 114,900 114,900 114,900 116,900 139,400 214,150 219,650 219,650 219,650 219,650 226,650 226,650 226,650 226,650	Small Scale	0	Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Others Ot	P12 Station 6,617 9,001 11,206 12,295 14,590 7,660 15,451 7,945 6,901 9,167 9,465 10,380 10,922 11,398 10,165 11,932 6,562 8,760 4,787 7,247 3,809 3,187 6,632 5,509 8,582 7,105	9,945 12,753 6,620 7,314 9,979 4,744 3,792 8,397 6,878 10,480 7,507	Bhumbol 6,120
1936 1937 1938 1939 1940 1941 1942 1943 1944 1945 1946 1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959 1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980	70,000 70,000 70,000 70,000 70,000 70,000 114,900 114,900 114,900 114,900 114,900 114,900 114,900 114,900 114,900 114,900 114,900 114,900 114,900 114,900 114,900 114,900 116,900 1214,150 214,150 219,650 219,650 219,650 219,650 226,650 226,650 226,650	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 0 0 0	6,617 9,001 11,206 12,295 14,590 7,660 15,451 7,945 6,901 9,167 9,465 10,380 10,922 11,398 10,165 11,932 6,562 8,760 4,787 7,247 3,809 3,187 6,632 5,509 8,582 7,105	9,945 12,753 6,620 7,314 9,979 4,744 3,792 8,397 6,878 10,480	
1937 1938 1939 1940 1941 1942 1943 1944 1945 1946 1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959 1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980	70,000 70,000 70,000 70,000 114,900 114,900 114,900 114,900 114,900 114,900 114,900 114,900 114,900 114,900 114,900 114,900 114,900 116,900 139,400 139,400 214,150 219,650 219,650 219,650 219,650 219,650 226,650 226,650 226,650	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 0 0 0	9,001 11,206 12,295 14,590 7,660 15,451 7,945 6,901 9,167 9,465 10,380 10,922 11,398 10,165 11,932 6,562 8,760 4,787 5,476 7,247 3,809 3,187 6,632 5,509 8,582 7,105	12,753 6,620 7,314 9,979 4,744 3,792 8,397 6,878 10,480	
1938 1939 1940 1941 1942 1943 1944 1945 1946 1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959 1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980	70,000 70,000 70,000 114,900 114,900 114,900 114,900 114,900 114,900 114,900 114,900 114,900 114,900 114,900 114,900 114,900 114,900 116,900 139,400 214,150 219,650 219,650 219,650 219,650 219,650 226,650 226,650 226,650	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 0 0 0	11,206 12,295 14,590 7,660 15,451 7,945 6,901 9,167 9,465 10,380 10,922 11,398 10,165 11,932 6,562 8,760 4,787 5,476 7,247 3,809 3,187 6,632 5,509 8,582 7,105	12,753 6,620 7,314 9,979 4,744 3,792 8,397 6,878 10,480	
1939 1940 1941 1942 1943 1944 1945 1946 1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959 1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971 1972 1973 1974 1975 1976 1977 1978	70,000 70,000 114,900 114,900 114,900 114,900 114,900 114,900 114,900 114,900 114,900 116,900 116,900 139,400 214,150 219,650 219,650 219,650 219,650 219,650 226,650 226,650 226,650	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 0 0 0	12,295 14,590 7,660 15,451 7,945 6,901 9,167 9,465 10,380 10,922 11,398 10,165 11,932 6,562 8,760 4,787 5,476 7,247 3,809 3,187 6,632 5,509 8,582 7,105	12,753 6,620 7,314 9,979 4,744 3,792 8,397 6,878 10,480	
1940 1941 1942 1943 1944 1945 1946 1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959 1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980	70,000 114,900 114,900 114,900 114,900 114,900 114,900 114,900 114,900 114,900 116,900 116,900 139,400 214,150 219,650 219,650 219,650 219,650 226,650 226,650 226,650	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 0 0 0	14,590 7,660 15,451 7,945 6,901 9,167 9,465 10,380 10,922 11,398 10,165 11,932 6,562 8,760 4,787 5,476 7,247 3,809 3,187 6,632 5,509 8,582 7,105	12,753 6,620 7,314 9,979 4,744 3,792 8,397 6,878 10,480	
1941 1942 1943 1944 1945 1946 1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959 1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980	114,900 114,900 114,900 114,900 114,900 114,900 114,900 114,900 116,900 116,900 139,400 214,150 219,650 219,650 219,650 219,650 219,650 226,650 226,650 226,650	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 0 0 0	7,660 15,451 7,945 6,901 9,167 9,465 10,380 10,922 11,398 10,165 11,932 6,562 8,760 4,787 5,476 7,247 3,809 3,187 6,632 5,509 8,582 7,105	12,753 6,620 7,314 9,979 4,744 3,792 8,397 6,878 10,480	
1942 1943 1944 1945 1946 1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959 1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980	114,900 114,900 114,900 114,900 114,900 114,900 114,900 116,900 116,900 139,400 214,150 219,650 219,650 219,650 219,650 219,650 226,650 226,650 226,650	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 0 0 0	15,451 7,945 6,901 9,167 9,465 10,380 10,922 11,398 10,165 11,932 6,562 8,760 4,787 5,476 7,247 3,809 3,187 6,632 5,509 8,582 7,105	12,753 6,620 7,314 9,979 4,744 3,792 8,397 6,878 10,480	
1943 1944 1945 1946 1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959 1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971 1972 1973 1974 1975 1978 1979 1980	114,900 114,900 114,900 114,900 114,900 114,900 114,900 116,900 139,400 214,150 219,650 219,650 219,650 219,650 219,650 226,650 226,650 226,650	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 0 0 0	7,945 6,901 9,167 9,465 10,380 10,922 11,398 10,165 11,932 6,562 8,760 4,787 5,476 7,247 3,809 3,187 6,632 5,509 8,582 7,105	12,753 6,620 7,314 9,979 4,744 3,792 8,397 6,878 10,480	
1944 1945 1946 1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959 1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980	114,900 114,900 114,900 114,900 114,900 116,900 116,900 139,400 214,150 214,150 219,650 219,650 219,650 219,650 226,650 226,650 226,650	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 0 0 0	6,901 9,167 9,465 10,380 10,922 11,398 10,165 11,932 6,562 8,760 4,787 5,476 7,247 3,809 3,187 6,632 5,509 8,582 7,105	12,753 6,620 7,314 9,979 4,744 3,792 8,397 6,878 10,480	
1945 1946 1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959 1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980	114,900 114,900 114,900 114,900 116,900 116,900 139,400 139,400 214,150 219,650 219,650 219,650 219,650 226,650 226,650 226,650 226,650	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 0 0 0	9,167 9,465 10,380 10,922 11,398 10,165 11,932 6,562 8,760 4,787 5,476 7,247 3,809 3,187 6,632 5,509 8,582 7,105	12,753 6,620 7,314 9,979 4,744 3,792 8,397 6,878 10,480	
1946 1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959 1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980	114,900 114,900 114,900 116,900 116,900 139,400 139,400 214,150 214,150 219,650 219,650 219,650 219,650 226,650 226,650 226,650 226,650	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 0 0 0	9,465 10,380 10,922 11,398 10,165 11,932 6,562 8,760 4,787 5,476 7,247 3,809 3,187 6,632 5,509 8,582 7,105	12,753 6,620 7,314 9,979 4,744 3,792 8,397 6,878 10,480	
1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959 1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971 1972 1973 1974 1975 1976 1977	114,900 114,900 114,900 116,900 116,900 139,400 214,150 214,150 219,650 219,650 219,650 219,650 226,650 226,650 226,650 226,650	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 0 0 0	10,380 10,922 11,398 10,165 11,932 6,562 8,760 4,787 5,476 7,247 3,809 3,187 6,632 5,509 8,582 7,105	12,753 6,620 7,314 9,979 4,744 3,792 8,397 6,878 10,480	
1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959 1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980	114,900 114,900 116,900 116,900 139,400 214,150 214,150 219,650 219,650 219,650 219,650 226,650 226,650 226,650 226,650	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 0 0 0	10,922 11,398 10,165 11,932 6,562 8,760 4,787 5,476 7,247 3,809 3,187 6,632 5,509 8,582 7,105	12,753 6,620 7,314 9,979 4,744 3,792 8,397 6,878 10,480	
1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959 1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980	114,900 116,900 116,900 139,400 139,400 214,150 219,650 219,650 219,650 219,650 226,650 226,650 226,650 226,650	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 0 0 0	11,398 10,165 11,932 6,562 8,760 4,787 5,476 7,247 3,809 3,187 6,632 5,509 8,582 7,105	12,753 6,620 7,314 9,979 4,744 3,792 8,397 6,878 10,480	
1950 1951 1952 1953 1954 1955 1956 1957 1958 1959 1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980	116,900 116,900 139,400 139,400 214,150 214,150 219,650 219,650 219,650 219,650 226,650 226,650 226,650	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 0 0 0	10,165 11,932 6,562 8,760 4,787 5,476 7,247 3,809 3,187 6,632 5,509 8,582 7,105	12,753 6,620 7,314 9,979 4,744 3,792 8,397 6,878 10,480	
1951 1952 1953 1954 1955 1956 1957 1958 1959 1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980	116,900 139,400 139,400 214,150 214,150 219,650 219,650 219,650 219,650 226,650 226,650 226,650 226,650	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	11,932 6,562 8,760 4,787 5,476 7,247 3,809 3,187 6,632 5,509 8,582 7,105	12,753 6,620 7,314 9,979 4,744 3,792 8,397 6,878 10,480	
1952 1953 1954 1955 1956 1957 1958 1959 1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980	139,400 139,400 214,150 214,150 219,650 219,650 219,650 219,650 219,650 226,650 226,650 226,650 226,650	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	6,562 8,760 4,787 5,476 7,247 3,809 3,187 6,632 5,509 8,582 7,105	12,753 6,620 7,314 9,979 4,744 3,792 8,397 6,878 10,480	
1953 1954 1955 1956 1957 1958 1959 1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980	139,400 214,150 214,150 219,650 219,650 219,650 219,650 219,650 226,650 226,650 226,650 226,650	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	8,760 4,787 5,476 7,247 3,809 3,187 6,632 5,509 8,582 7,105	12,753 6,620 7,314 9,979 4,744 3,792 8,397 6,878 10,480	
1954 1955 1956 1957 1958 1959 1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980	214,150 214,150 219,650 219,650 219,650 219,650 219,650 226,650 226,650 226,650 226,650	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	4,787 5,476 7,247 3,809 3,187 6,632 5,509 8,582 7,105	6,620 7,314 9,979 4,744 3,792 8,397 6,878 10,480	
1955 1956 1957 1958 1959 1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971 1972 1973 1974 1975 1976 1977	214,150 219,650 219,650 219,650 219,650 219,650 226,650 226,650 226,650 226,650	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	5,476 7,247 3,809 3,187 6,632 5,509 8,582 7,105	7,314 9,979 4,744 3,792 8,397 6,878 10,480	
1956 1957 1958 1959 1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980	219,650 219,650 219,650 219,650 219,650 226,650 226,650 226,650 226,650	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	7,247 3,809 3,187 6,632 5,509 8,582 7,105	9,979 4,744 3,792 8,397 6,878 10,480	
1957 1958 1958 1959 1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971 1972 1973 1974 1975 1976 1977 1978	219,650 219,650 219,650 219,650 219,650 226,650 226,650 226,650 226,650	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	3,809 3,187 6,632 5,509 8,582 7,105	4,744 3,792 8,397 6,878 10,480	
1958 1959 1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980	219,650 219,650 219,650 219,650 226,650 226,650 226,650 226,650	0 0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0	3,187 6,632 5,509 8,582 7,105	3,792 8,397 6,878 10,480	
1959 1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979	219,650 219,650 219,650 226,650 226,650 226,650 226,650	0 0 0 0 0 0	0 0 0 0 0	0 0 0 0	6,632 5,509 8,582 7,105	8,397 6,878 10,480	
1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980	219,650 219,650 226,650 226,650 226,650 226,650	0 0 0 0 0	0 0 0 0	0 0 0	5,509 8,582 7,105	6,878 10,480	
1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979	219,650 226,650 226,650 226,650 226,650	0 0 0 0 0	0 0 0	0 0 0	8,582 7,105	10,480	C 10
1962 1963 1964 1965 1966 1967 1968 1969 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979	226,650 226,650 226,650 226,650	0 0 0	0 0	0	7,105		C 10
1963 1964 1965 1966 1967 1968 1969 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979	226,650 226,650 226,650	0 0 0	0	0			6 12
1964 1965 1966 1967 1968 1969 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979	226,650 226,650	0	0		7,338		7,30
1965 1966 1967 1968 1969 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979	226,650	0					7,36
1966 1967 1968 1969 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979			0	0			
1967 1968 1969 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979	7 (4. 4. 11)	0	· · · · · · · · · · · · · · · · · · ·	. 0			
1968 1969 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979	226,650	0	· · · · · · · · · · · · · · · · · · ·	0	·		
1969 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979	226,650	0		0			
1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980	226,650	0		0	·		
1971 1972 1973 1974 1975 1976 1977 1978 1979 1980	250,150	. 0		0			
1972 1973 1974 1975 1976 1977 1978 1979 1980	304,250			1,200			
1973 1974 1975 1976 1977 1978 1979 1980	462,650			1,200	<u> </u>		
1974 1975 1976 1977 1978 1979 1980					7 010		
1975 1976 1977 1978 1979 1980	463,650		·	1,200			
1976 1977 1978 1979 1980	465,950		·			· [
1977 1978 1979 1980	475,350			1,850 6,086			
1978 1979 1980	475,350			6,913			
1979 1980	562,350			7,503			
1980	609,800 631,800			14,371			
	662,500			17,371			
10011	806,950						
1981 1982	867,650			27,154			
1982	876,150						
1984	902,650		- 				
1985	1,056,381						
	1,065,881						
1986		,					
1987	1,112,781 1,125,681				~!		
1988 19 8 9	1,123,081				- 		
1990	1,135,981						
1991	1,135,981 1,139,981				·		
1992	1,135,981 1,139,981 1,270,231			54,76			
1993	1,135,981 1,139,981 1,270,231 1,270,231		<u> </u>	34,/0	5,94		8,0
1994	1,135,981 1,139,981 1,270,231		1				6,80
1995	1,135,981 1,139,981 1,270,231 1,270,231		+	t .	6,96		6,80
1996 1997	1,135,981 1,139,981 1,270,231 1,270,231	362,91	0 150,290	54,76		71	1 0,00

Table 4.1.15 Staged Development in the Wang Basin

(oject (Area in ra		Runoff
Year	Large/Medium	Small Scale	DEDP Pump	Others	W3A Station
1936	0	0	0	0	
1937	ō	0	0	0	
1938	ŏ	0	0	0	
1939	0	0	0	0	
1940	0	0	0	0	
1941	ol-	0	0	0	
1942	0	0	0	0	
1943	0	0	0	0	
1944	0	0	0	0	
1945	0	ol	0	0	
1946	}	0	0	0	
1947		0	0	0	
1948		0	0	0	
1949		0	0	0	
1950	<u> </u>	. 0	0	0	
1951	97,000	0	0	0	
1952		0	0	0	
1953	97,000	0	0	0	
1954	97,000	0	0	0	
1955		0	0	0	1,283
1956		0	0	0	1,502
1957		0	0	0	936
1958		0	0	0	490
1959		0	0	0	1,471
1960		0	0	0	1,485
1961		0	0	0	2,716
1962		0	0	0	1,361
1963		0	0	0	1,556
1964		0	0	0	1,682
1965		0	0	0	611
1966		0	0	0	. 979
1967		0	0	0	1,432
1968		0	0	0	714
1969		0	. 0	0	1,513
1970		0	0	0	2,509
197		0	0	. 0	2,408
1972		0	0	0	930
197		0	0	0	2,899
1974		0	0	0	2,009
197		0	0	0	2,007
1970		0	0	0	1,176
197		1,500	0	0	1,273
197				0	1,929
197		25,900		0	680
198		45,700			942
198		64,500		0	1,578
198					515
198		93,600			762 604
198					
198		139,550			
198		178,550			<u> </u>
198					
198					
198					
199					
199					
199					·1
199		233,430	30,333	7,000	2,244
199		<u> </u>			1,318
199		280,450	54,360	7,000	
199		200,430	34,300	7,000	1,508
173	<u> </u>	<u> </u>	<u> </u>	<u> </u>	1

Table 4.1.16 Staged Development in the Yom Basin

		e of Irrigation I			Runoff
Year	Large/Medium	Small Scale	DEDP Pump	Others	Y6 Station
1936	0	0	0	0	
1937	0	0	0	0	
1938	0	0	0	0	
1939	0	0	0	0	
1940	0	0	0	0	
1941	0	0	0	0	
1942	0	0	0	. 0	
1943	0	0	0	0	
1944	0	0	0	0	
1945	0	0	0	ō	
1946	0	. 0	ő	<u>0</u>	
1947	0	0	Ö	0	
1948	0	0	ŏ	<u>0</u>	
1949	0		0		
	I	0		0	
1950	0	0	0	0	
1951	0	0	0	0	
1952	0	0	0	0	
1953	0	0	0	0	
1954	0	0	0	0	1,81
1955	0	0	0	0	2,30
1956	0	. 0	0	0	3,29
1957	0	0	0	0	2,71
1958	0	0	0	0	91
1959	12,000	. 0	0	. 0	2,70
1960	12,000	0	0	0	2,59
1961	12,000	0	0	0	5,31
1962	12,000	. 0	0	0	1,55
1963	12,000	0	0	- 0	2,97
1964	12,000	0	0	0	2,08
1965	12,000	0	0	0	1,14
1966		0	0	0	1,70
1967	12,000	0	Ō	0	2,00
1968	12,000	0	0	Ö	1,26
1969	12,000	0	ő	<u>ö</u> l	1,58
1970		0	0	<u></u>	4,89
1971	27,000	0	<u>ö</u>	<u>o</u>	3,88
1972		<u>v</u>	0	0	1,76
1973					4,93
			<u>V</u>	U	
1974	····	. 0	0	0	3,07
1975		0	0	0	4,20
1976		0 500	0	0	2,83
1977	1	2,500	0	350	2,21
1978		2,500		350	4,12
1979		11,400		750	1,13
1980		27,910		4,750	2,89
1981	· • · · · · · · · · · · · · · · · · · ·	42,730		5,750	4,09
1982		57,130		5,750	1,42
1983		86,530		7,512	2,49
1984		114,370	19,340	7,512	2,26
1985		145,970	19,340	7,599	2,22
1986		163,070		7,599	1,94
1987		180,770		7,599	2,25
1988	1	209,190		8,599	2,54
1989		232,290		8,599	2,20
1990		240,490		10,774	1,68
1991		248,590		12,474	1,70
1992		250,090		13,674	1,47
1993		251,090		13,674	95
		231,030	33,743	13,074	
1994					4,91
1995		251,090	76,270	13,674	4,57 2,57
1990					