

Table 13-71 Project Impact on Income Distribution for Chao Phraya Delta

Item	Unit	Owner Cultivator			Owner-cum-Tenant Cultivator		
		FW/O ①	FW ②	Increment ② - ①	FW/O ①	FW ②	Increment ② - ①
Average Land Holding Size	rai	31.6	29.3	-2.3	31.6 (15.8)	29.3 (14.65)	-2.3 (-1.15)
Average Family Size	no.	3.72	3.72	0	3.72	3.72	0
Income	Baht/year						
- Agriculture	Baht/year	212,237	277,991	65,754	191,455	250,633	59,178
Crop	Baht/year	199,637	242,948	43,311	179,673	218,653	38,980
Livestock	Baht/year	4,415	4,415	0	4,415	4,415	0
Fisheries	Baht/year	8,185	30,628	22,443	7,367	27,565	20,198
- Non-agriculture	Baht/year	43,462	43,462	0	43,462	43,462	0
Trade, Service, etc.	Baht/year						
Total	Baht/year	255,699	321,453	65,754	234,917	294,095	59,178
Expenditure	Baht/year						
- Agriculture	Baht/year	138,441	143,116	4,675	138,441	143,116	4,675
Crop	Baht/year	129,656	130,768	1,112	129,656	130,768	1,112
Livestock	Baht/year	2,295	2,295	0	2,295	2,295	0
Fisheries	Baht/year	6,490	10,053	3,563	6,490	10,053	3,563
- Household	Baht/year	75,294	75,294	0	75,294	75,294	0
Total	Baht/year	213,735	218,410	4,675	213,735	218,410	4,675
Agricultural Income	%	83.0	86.5	3.5	81.5	85.2	3.7
Non-agricultural Income	%	17.0	13.5	-3.5	18.5	14.8	-3.7
Net Farm Income	Baht/year	41,964	103,043	61,079	21,182	75,685	54,503
Per Capita Net Farm Income	Baht/year	11,281	27,700	16,419	5,694	20,345	14,651

Note: 1) FW/O indicates future without project case, while FW shows future with project case.

2) Figures in parenthesis show tenanted area.

Source: Farm household survey.

Table 13-72 Project Impact on Income Distribution for Phisanulok Irrigation Project (Stage 1)

Item	Unit	Owner Cultivator			Owner-cum-Tenant Cultivator		
		FW/O ①	FW ②	Increment ② - ①	FW/O ①	FW ②	Increment ② - ①
Average Land Holding Size	rai	31.9	30.3	-1.6	31.9 (15.95)	30.3 (15.15)	-1.6 (-0.8)
Average Family Size	no.	4.0	4.0	0	4.0	4.0	0
Income	Baht/year						
- Agriculture	Baht/year	193,515	283,023	89,508	174,698	255,255	80,557
Crop	Baht/year	188,060	261,761	73,701	169,254	235,585	66,331
Livestock	Baht/year	5,343	5,343	0	5,343	5,343	0
Fisheries	Baht/year	112	15,919	15,807	101	14,327	14,226
- Non-agriculture	Baht/year	39,741	39,741	0	39,741	39,741	0
Trade, Service, etc.	Baht/year						
Total	Baht/year	233,256	322,764	89,508	214,439	294,996	80,557
Expenditure	Baht/year						
- Agriculture	Baht/year	136,247	150,628	14,381	136,247	150,628	14,381
Crop	Baht/year	132,438	141,683	9,245	132,438	141,683	9,245
Livestock	Baht/year	3,720	3,720	0	3,720	3,720	0
Fisheries	Baht/year	89	5,225	5,136	89	5,225	5,136
- Household	Baht/year	53,463	53,463	0	53,463	53,463	0
Total	Baht/year	189,710	204,091	14,381	189,710	204,091	14,381
Agricultural Income	%	83.0	87.7	4.7	81.5	86.5	5.0
Non-agricultural Income	%	17.0	12.3	-4.7	18.5	13.5	-5.0
Net Farm Income	Baht/year	43,546	118,673	75,127	24,729	90,905	66,176
Per Capita Net Farm Income	Baht/year	10,887	29,668	18,782	6,182	22,726	16,544

Note: 1) FW/O indicates future without project case, while FW shows future with project case.

2) Figures in parenthesis show tenanted area.

Source: Farm household survey.

Table 13-73 Project Impact on Income Distribution for Existing DEDP Pumping Scheme

Item	Unit	Owner Cultivator			Owner-cum-Tenant Cultivator		
		FW/O ①	FW ②	Increment ② - ①	FW/O ①	FW ②	Increment ② - ①
Average Land Holding Size	rai	16.1	16.1	0	16.1 (8.05)	16.1 (8.05)	0
Average Family Size	no.	4.06	4.06	0	4.06	4.06	0
Income	Baht/year						
- Agriculture	Baht/year	101,605	152,064	50,459	92,106	137,518	45,412
Crop	Baht/year	94,945	136,997	42,052	85,451	123,297	37,846
Livestock	Baht/year	6,604	6,604	0	6,604	6,604	0
Fisheries	Baht/year	56	8,463	8,407	51	7,617	7,566
- Non-agriculture	Baht/year	39,162	39,162	0	39,162	39,162	0
Trade, Service, etc.	Baht/year						
Total	Baht/year	140,767	191,226	50,459	131,268	176,680	45,412
Expenditure	Baht/year						
- Agriculture	Baht/year	70,595	80,120	9,525	70,595	80,120	9,525
Crop	Baht/year	66,853	73,644	6,791	66,853	73,644	6,791
Livestock	Baht/year	3,698	3,698	0	3,698	3,698	0
Fisheries	Baht/year	44	2,778	2,734	44	2,778	2,734
- Household	Baht/year	52,178	52,178	0	52,178	52,178	0
Total	Baht/year	122,773	132,298	9,525	122,773	132,298	9,525
Agricultural Income	%	72.2	79.5	7.3	70.2	77.8	7.6
Non-agricultural Income	%	27.8	20.5	-7.3	29.8	22.2	-7.6
Net Farm Income	Baht/year	17,994	58,928	40,934	8,495	44,382	35,887
Per Capita Net Farm Income	Baht/year	4,432	14,514	10,082	2,092	10,932	8,839

Note: 1) FW/O indicates future without project case, while FW shows future with project case.

2) Figures in parenthesis show tenanted area.

Source: Farm household survey.

Table 13-74 Project Impact on Income Distribution for Phisanulok Irrigation Project (Stage 2)

Item	Unit	Owner Cultivator			Owner-cum-Tenant Cultivator		
		FW/O ①	FW ②	Increment ② - ①	FW/O ①	FW ②	Increment ② - ①
Average Land Holding Size	rai	31.9	31.9	0	31.9 (15.95)	31.9 (15.95)	0 (0)
Average Family Size	no.	4.0	4.0	0	4.0	4.0	0
Income	Baht/year						
- Agriculture	Baht/year	63,082	291,043	227,961	57,308	262,473	205,165
Crop	Baht/year	57,739	266,356	208,617	51,965	239,720	187,755
Livestock	Baht/year	5,343	5,343	0	5,343	5,343	0
Fisheries	Baht/year	0	19,344	19,344	0	17,410	17,410
- Non-agriculture	Baht/year	51,663	51,663	0	51,663	51,663	0
Trade, Service, etc.	Baht/year						
Total	Baht/year	114,745	342,706	227,961	108,971	314,136	205,165
Expenditure	Baht/year						
- Agriculture	Baht/year	54,888	150,289	95,401	54,888	150,289	95,401
Crop	Baht/year	51,168	140,220	89,052	51,168	140,220	89,052
Livestock	Baht/year	3,720	3,720	0	3,720	3,720	0
Fisheries	Baht/year	0	6,349	6,349	0	6,349	6,349
- Household	Baht/year	53,463	53,463	0	53,463	53,463	0
Total	Baht/year	108,351	203,752	95,401	108,351	203,752	95,401
Agricultural Income	%	55.0	84.9	29.9	52.6	83.6	31.0
Non-agricultural Income	%	45.0	15.1	-29.9	47.4	16.4	-31.0
Net Farm Income	Baht/year	6,394	138,954	132,560	620	110,384	109,764
Per Capita Net Farm Income	Baht/year	1,599	34,739	33,140	155	27,596	27,441

Note: 1) FW/O indicates future without project case, while FW shows future with project case.

2) Figures in parenthesis show tenanted area.

Source: Farm household survey.

Table 13-75 Project Impact on Income Distribution for New DEDP Pumping Scheme

Item	Unit	Owner Cultivator			Owner-cum-Tenant Cultivator		
		FW/O ①	FW ②	Increment ② - ①	FW/O ①	FW ②	Increment ② - ①
Average Land Holding Size	rai	16.1	16.1	0	16.1 (8.05)	16.1 (8.05)	0
Average Family Size	no.	4.06	4.06	0	4.06	4.06	0
Income	Baht/year						
- Agriculture	Baht/year	35,745	150,799	115,054	32,831	136,380	103,549
Crop	Baht/year	29,141	134,523	105,382	26,227	121,071	94,844
Livestock	Baht/year	6,604	6,604	0	6,604	6,604	0
Fisheries	Baht/year	0	9,672	9,672	0	8,705	8,705
- Non-agriculture	Baht/year	50,911	50,911	0	50,911	50,911	0
Trade, Service, etc.	Baht/year						
Total	Baht/year	86,656	201,710	115,054	83,742	187,291	103,549
Expenditure	Baht/year						
- Agriculture	Baht/year	29,522	77,716	48,194	29,522	77,716	48,194
Crop	Baht/year	25,824	70,843	45,019	25,824	70,843	45,019
Livestock	Baht/year	3,698	3,698	0	3,698	3,698	0
Fisheries	Baht/year	0	3,175	3,175	0	3,175	3,175
- Household	Baht/year	52,178	52,178	0	52,178	52,178	0
Total	Baht/year	81,700	129,894	48,194	81,700	129,894	48,194
Agricultural Income	%	41.2	74.8	33.6	39.2	72.8	33.6
Non-agricultural Income	%	58.8	25.2	-33.6	60.8	27.2	-33.6
Net Farm Income	Baht/year	4,956	71,816	66,860	2,042	57,397	55,355
Per Capita Net Farm Income	Baht/year	1,221	17,689	16,468	503	14,137	13,634

Note: 1) FW/O indicates future without project case, while FW shows future with project case.

2) Figures in parenthesis show tenanted area.

Source: Farm household survey.

Table 13-76 Project Impact on Income Distribution for Associate Irrigation Projects

Item	Unit	Owner Cultivator			Owner-cum-Tenant Cultivator		
		FW/O ①	FW ②	Increment ② - ①	FW/O ①	FW ②	Increment ② - ①
Average Land Holding Size	rai	15.5	15.5	0	15.5 (7.75)	15.5 (7.75)	0 (0)
Average Family Size	no.	3.52	3.52	0	3.52	3.52	0
Income	Baht/year						
- Agriculture	Baht/year	36,283	186,987	150,704	33,226	168,860	135,634
Crop	Baht/year	30,566	150,037	119,471	27,509	135,033	107,524
Livestock	Baht/year	5,717	5,717	0	5,717	5,717	0
Fisheries	Baht/year	0	31,233	31,233	0	28,110	28,110
- Non-agriculture	Baht/year	43,446	43,446	0	43,446	43,446	0
Trade, Service, etc.	Baht/year						
Total	Baht/year	79,729	230,433	150,704	76,672	212,306	135,634
Expenditure	Baht/year						
- Agriculture	Baht/year	29,486	82,916	53,430	29,486	82,916	53,430
Crop	Baht/year	26,381	69,559	43,178	26,381	69,559	43,178
Livestock	Baht/year	3,105	3,105	0	3,105	3,105	0
Fisheries	Baht/year	0	10,252	10,252	0	10,252	10,252
- Household	Baht/year	39,613	39,613	0	39,613	39,613	0
Total	Baht/year	69,099	122,529	53,430	69,099	122,529	53,430
Agricultural Income	%	45.5	81.1	35.6	43.3	79.5	36.2
Non-agricultural Income	%	54.5	18.9	-35.6	56.7	20.5	-36.2
Net Farm Income	Baht/year	10,630	107,904	97,274	7,573	89,777	82,204
Per Capita Net Farm Income	Baht/year	3,020	30,655	27,635	2,151	25,505	23,353

Note: 1) FW/O indicates future without project case, while FW shows future with project case.

2) Figures in parenthesis show tenanted area.

3) Reservoir fish culture is excluded.

Source: Farm household survey.

Table 13-77 Raw Water Cost

Item	Cost (1,000 Baht)	Interest Rate (%)	Repayment Period (years)	Annual Repayment (1,000 Baht)
1. Water Availability: 2.81 billion tons				
- Construction Cost	44,186,000	5.0	25	3135105.3
- O&M Cost	128,000	5.0	1	134400.0
				3269505.3
				Baht/m ³ = 1.163525018
- Construction Cost	44,186,000	5.0	50	2420364.8
- O&M	128,000	5.0	1	134400.0
				2554764.8
				Baht/m ³ = 0.909168968
2. Water Availability: 2 billion tons				
- Construction Cost	44,186,000	5.0	25	3135105.3
- O&M Cost	128,000	5.0	1	134400.0
				3269505.3
				Baht/m ³ = 1.63475265
- Construction Cost	44,186,000	5.0	50	2420364.8
- O&M Cost	128,000	5.0	1	134400.0
				2554764.8
				Baht/m ³ = 1.2773824

Note: Calculation is based on the following formula:

Annual repayment = $iA(1+i)^n / (1+i)^n - 1$ where i, A and n are the interest rate, loan amount and loan period, respectively.

Table 13-78 Cost Recovery

Benefit Area	Average Land Holding Size (rai)	Net Incremental Farm Income		Water Demand (m ³)	Water Cost (Baht) ②	Proportion	
		Owner (Baht/year) ①	Owner-cum-Tenant (Baht/year) ①			Owner (%) ③=②/①	Owner-cum-Tenant (%) ③=②/①
1. Chao Phraya Delta	31.6	61,100	54,500	41,310	26,900	44.0	49.4
2. Phitsanulok Irrigation Project (Stage 1)	31.9	75,100	66,200	54,250	35,300	47.0	53.3
3. Existing DEDP Pumping Scheme	16.1	40,900	35,900	28,820	18,700	45.7	52.1
4. Phitsanulok Irrigation Project (Stage 2)	31.9	132,600	109,800	56,830	36,900	27.8	33.6
5. New DEDP Pumping Scheme	16.1	66,900	55,400	28,680	18,600	27.8	33.6
6. Associate Irrigation Projects	15.5	97,300	82,200	24,305	15,800	16.2	19.2

Table 13-79 Project Financing Plan

Item	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015-2026	
(1) Project Financing	LC 100%	FC 100%	Total 100%												
(2) Financing Conditions															
- Loan Source	Local Bank	OECD													
- Currency	Baht	J. Yen													
- Loan Term (years)	13	25													
- Grace Period (years)	0	7													
- Repayment Period (years)	13	18													
- Interest (%)	11	2.2													
- Commitment Fee (%)	0	0.1													
- Loan Amount (10 ⁶ Baht)	29,952.0	45,789.7	75,741.7												
(3) Loan Disbursement															
- Foreign Loan	49.0	293.0	933.0	2,681.0	3,866.0	4,858.0	4,825.0	4,742.0	5,451.0	6,720.0	6,056.0	3,890.0	1,380.0	0	
Capital Expenditure															
Commitment Fee	45.7	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total Disbursement	94.7	293.0	933.0	2,681.0	3,866.0	4,858.0	4,825.0	4,742.0	5,451.0	6,720.0	6,056.0	3,890.0	1,380.0	0	
Loan Balance	45,695.0	45,402.0	44,469.0	41,788.0	37,922.0	33,064.0	28,239.0	23,497.0	18,046.0	11,326.0	5,270.0	1,380.0	0	0	
- Local Loan	71.0	586.0	980.0	2,094.0	2,420.0	2,916.0	2,864.0	2,531.0	2,909.0	4,016.0	3,846.0	3,067.0	1,652.0	0	
Capital Expenditure															
Commitment Fee	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total Disbursement	71.0	586.0	980.0	2,094.0	2,420.0	2,916.0	2,864.0	2,531.0	2,909.0	4,016.0	3,846.0	3,067.0	1,652.0	0	
Loan Balance	29,881.0	29,295.0	28,315.0	26,221.0	23,801.0	20,885.0	18,021.0	15,490.0	12,581.0	8,565.0	4,719.0	1,652.0	0	0	
- Total Loans	120.0	879.0	1,913.0	4,775.0	6,286.0	7,774.0	7,689.0	7,273.0	8,360.0	10,736.0	9,902.0	6,957.0	3,032.0	0	
Capital Expenditure															
Commitment Fee	36.6	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total Disbursement	156.6	879.0	1,913.0	4,775.0	6,286.0	7,774.0	7,689.0	7,273.0	8,360.0	10,736.0	9,902.0	6,957.0	3,032.0	0	
Loan Balance	75,576.0	74,697.0	72,784.0	68,009.0	61,723.0	53,949.0	46,260.0	38,987.0	30,627.0	19,891.0	9,989.0	3,032.0	0	0	
(4) Annual Repayment															
- Foreign Loan	0	0	0	0	0	0	0	3,619.68	3,619.68	3,619.68	3,619.68	3,619.68	3,619.68	3,619.68	
- Local Loan	4,437.42	4,437.42	4,437.42	4,437.42	4,437.42	4,437.42	4,437.42	4,437.42	4,437.42	4,437.42	4,437.42	4,437.42	4,437.42	0	
- Total Loans	4,437.42	4,437.42	4,437.42	4,437.42	4,437.42	4,437.42	4,437.42	8,057.10	8,057.10	8,057.10	8,057.10	8,057.10	8,057.10	3,619.68	

Note: O & M costs for the Kok-Ina-Nan Diversion Project, the Phitsanulok Irrigation Project (Stage 2), the New DEDP Pumping Scheme, and the Associate Irrigation Projects are excluded from the total loan amount.

Note: O & M costs for the Kok-Ing-Nan Diversion Project, the Phitsanulok Irrigation Project (Stage 2), the New DEDP Pumping Scheme, and the Associate Irrigation Projects are excluded from the total loan amount.

Table 13-80 Retail Margin of Chemical Fertilizer Sales

Benefit Area	Unit	Wet Season Paddy	Dry Season Paddy	Sugarcane	Field Crops	Vegetables	Fruit Trees	Total	Margin (7%)
1. Chao Phraya Delta									
Incremental Cropped Area	1,000 rai	-377.3	179.4	115.2	114.1	128.7	208.1	368.2	
Fertilizer Input	kg/rai	32	52	35	94	120	139		
	Baht/rai	169	260	218	533	748	830		
	ton	-12,074	9,329	4,032	10,725	15,444	28,926	56,383	
	1,000 Baht	-63,764	46,644	25,114	60,815	96,268	172,723	337,800	23,646
2. Phitsanulok Irrigation Project (Stage 1) and Existing DEDP Pumping Scheme									
Incremental Cropped Area	1,000 rai	-94.9	-130.2	0	64.2	28.5	78.4	-54.0	
Fertilizer Input	kg/rai	32	42	35	94	120	142		
	Baht/rai	169	214	218	533	748	846		
	ton	-3,037	-5,468	0	6,035	3,420	11,133	12,082	
	1,000 Baht	-16,038	-27,863	0	34,219	21,318	66,326	77,962	5,457
3. Phitsanulok Irrigation Project (Stage 2) and New DEDP Pumping Scheme									
Incremental Cropped Area	1,000 rai	-59.5	224.0	0	56.0	21.0	49.0	290.5	
Fertilizer Input	kg/rai	24	52	35	94	120	142		
	Baht/rai	125	260	218	533	748	846		
	ton	-1,428	11,648	0	5,264	2,520	6,958	24,962	
	1,000 Baht	-7,438	58,240	0	29,848	15,708	41,454	137,813	9,647
4. Associate Irrigation Projects									
Incremental Cropped Area	1,000 rai	-31.5	31.5	0	25.0	12.0	25.0	62.0	
Fertilizer Input	kg/rai	27	52	35	12.5	120	142		
	Baht/rai	139	260	218	82	748	846		
	ton	-851	1,638	0	313	1,440	3,550	6,090	
	1,000 Baht	-4,379	8,190	0	2,050	8,976	21,150	35,988	2,519
Total									
	1,000 rai	-563.2	304.7	115.2	259.3	190.2	360.5	666.7	
	ton	-17,389	17,146	4,032	22,337	22,824	50,567	99,517	
	1,000 Baht	-91,618	85,211	25,114	126,932	142,270	301,653	589,562	41,269

Table 13-81 Retail Margin of Agro-chemicals Sales

Benefit Area	Unit	Wet Season Paddy	Dry Season Paddy	Sugarcane	Field Crops	Vegetables	Fruit Trees	Total	Margin (12%)
1. Chao Phraya Delta									
Incremental Cropped Area	1,000 rai	-377.3	179.4	115.2	114.1	128.7	208.1	368.2	
Agro-chemical Input	Baht/rai	81	160	85	417	735	830		
	1,000 Baht	-30,561	28,704	9,792	47,580	94,595	172,723	322,832	38,740
2. Phitsanulok Irrigation Project (Stage 1) and Existing DEDP Pumping Scheme									
Incremental Cropped Area	1,000 rai	-94.9	-130.2	0	64.2	28.5	78.4	-54.0	
Agro-chemical Input	Baht/rai	81	159	85	417	735	830		
	1,000 Baht	-7,687	-20,702	0	26,771	20,948	65,072	84,402	10,128
3. Phitsanulok Irrigation Project (Stage 2) and New DEDP Pumping Scheme									
Incremental Cropped Area	1,000 rai	-59.5	224.0	0	56.0	21.0	49.0	290.5	
Agro-chemical Input	Baht/rai	60	160	85	417	735	830		
	1,000 Baht	-3,570	35,840	0	23,352	15,435	40,670	111,727	13,407
4. Associate Irrigation Projects									
Incremental Cropped Area	1,000 rai	-31.50	31.5	0	25.0	12.0	25.0	62.0	
Agro-chemical Input	Baht/rai	67	160	85	60	735	830		
	1,000 Baht	-2,111	5,040	0	1,500	8,820	20,750	34,000	4,080
Total									
	1,000 rai	-563.2	304.7	115.2	259.3	190.2	360.5	666.7	
	1,000 Baht	-43,929	48,882	9,792	99,203	139,797	299,215	552,961	66,355

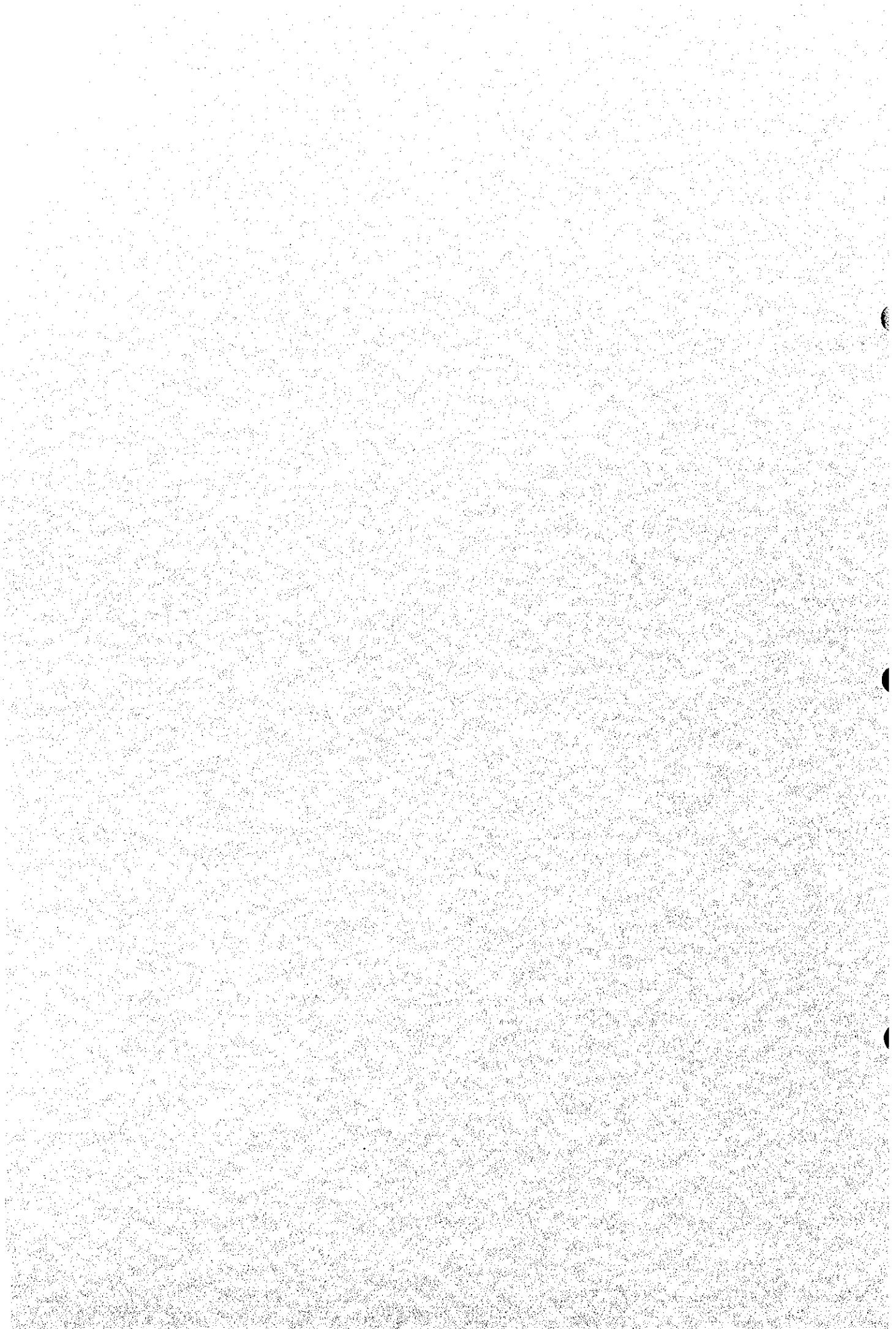
Table 13-82 Generation of Employment Opportunities for Construction Works

Item	Skilled Labour		Unskilled Labour		Total	
	(1,000 Baht)	(man-day)	(1,000 Baht)	(man-day)	(1,000 Baht)	(man-day)
1. Kok-Ing-Nan Project						
(1) Kok Intake, Kok Canal and Kok-Ing No.1 Tunnel	8,940	25,542	20,860	90,695	29,800	116,237
(2) Tak Canal	6,360	18,171	14,840	64,521	21,200	82,692
(3) Kok-Ing No.2 Tunnel	5,820	16,628	13,580	59,043	19,400	75,671
(4) Ing Canal and Ing Weir/Intak	7,680	21,942	17,920	77,913	25,600	99,855
(5) Ing-Yot Canal and Ing-Yot No.1 Tunnel	7,815	22,328	18,235	79,282	26,050	101,610
(6) Ing-Yot Culvert and Ing-Yot No.2 Tunnel (Div. 1)	10,515	30,042	24,535	106,673	35,050	136,715
(7) Ing-Yot No.2 Tunnel (Div. 2&3)	12,480	35,657	29,120	126,608	41,600	162,265
(8) Ing-Yot No.2 Tunnel (Div. 4&5)	14,535	41,528	33,915	147,456	48,450	188,984
(9) Ing-Yot No.2 Tunnel (Div. 6&7)	13,845	39,557	32,305	140,456	46,150	180,013
(10) Ing-Yot No.2 Tunnel (Div. 8&9)	11,040	31,542	25,760	112,000	36,800	143,542
(11) Yao Dam and Yot & Yao River Training	9,450	27,000	22,050	95,869	31,500	122,869
Sub-total	108,480	309,937	253,120	1,100,516	361,600	1,410,453
2. Associate Irrigation Projects	19,695	56,271	45,955	199,804	65,650	256,075
3. Environmental Impact Mitigation Works	6,300	18,000	14,700	63,913	21,000	81,913
4. Phitsanulok Irrigation Project (Stage 1) & Existing DEDP Pumping Scheme	14,160	40,457	33,040	143,652	47,200	184,109
5. Phitsanulok Irrigation Project (Stage 2) & New DEDP Pumping Scheme	54,300	155,142	126,700	550,869	181,000	706,011
Total	202,935	579,807	473,515	2,058,754	676,450	2,638,561

Table 13-83 Generation of Employment Opportunity for Farming

Benefit Area	Unit	Wet Season Paddy	Dry Season Paddy	Sugarcane	Field Crops	Vegetables	Fruit Trees	Total
1. Chao Phraya Delta								
Incremental Cropped Area	1,000 rai	-377.3	179.4	115.2	114.1	128.7	208.1	368.2
Labour Input	man-day/rai	8.0	9.4	27.8	10.2	19.3	9.1	
	1,000 md	-3,018	1,686	3,203	1,164	2,484	1,894	7,412
2. Phitsanulok Irrigation Project (Stage 1) and Existing DEDP Pumping Scheme								
Incremental Cropped Area	1,000 rai	-94.9	-130.2	0	64.2	28.5	78.4	-54.0
Labour Input	man-day/rai	8.0	8.9	27.8	10.2	19.3	9.1	
	1,000 md	-759	-1,159	0	655	550	713	0
3. Phitsanulok Irrigation Project (Stage 2) and New DEDP Pumping Scheme								
Incremental Cropped Area	1,000 rai	-59.5	224.0	0	56.0	21.0	49.0	290.5
Labour Input	man-day/rai	7.5	9.4	27.8	10.2	19.3	9.1	
	1,000 md	-446	2,106	0	571	405	446	3,082
4. Associate Irrigation Projects								
Incremental Cropped Area	1,000 rai	-31.5	31.5	0	25.0	12.0	25.0	62.0
Labour Input	man-day/rai	7.6	9.4	27.8	6.3	19.3	9.1	
	1,000 md	-239	296	0	158	232	228	673
Total	1,000 rai	-563.2	304.7	115.2	259.3	190.2	360.5	666.7
	1,000 md	-4,463	2,929	3,203	2,547	3,671	3,281	11,167





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