TABLES

Table 2.1 Breakdown of Finacial Construction Cost and Estimate of Economic Construction Cost for Irrigation Project

Kabupaten/ Name of Scheme	Area (ha)	Type of Scheme	Present to W/O w/ (Rp.MN)	Without Project (W/O) to With Project (W/P)					Total Cost (Present to W/P) (Rp.MN)	Economic Construction Cost (Rp.MN)
				Rehabil.& Renewal (Rp.MN)	On-farm Grading-up (Rp.MN)	New Construction (Rp.MN)	Sub-Total (Rp.MN)	Land Acquisition (Rp.MN)	Total (Rp.MN)	
TABALONG										
1 Jaro	625	Exist	0	8	-	-	8	-	8	8	6
2 Jaro Bawah	200	Exist	315	82	191	-	273	32	305	620	218
3 Gumba	254	Exist	0	112	243	-	355	6	361	361	284
4 Sungai Kati	280	New	0	-	-	745	745	45	790	790	596
5 Nasnas	64	New	0	-	-	197	197	10	207	207	158
6 Kinarum	408	New	0	-	-	1,260	1,260	65	1,325	1,325	1,008
7 Mihim	203	New	0	-	-	627	627	32	659	659	502
8 Batupulut	225	New	0	-	-	598	598	36	634	634	478
9 Bilas	643	New	0	-	-	1,986	1,986	105	2,089	2,089	1,589
10 Banyu Tajun	750	New	0	-	-	2,367	2,367	120	2,487	2,487	1,894
HULU SUNGAI UTARA										
1 Paran	188	Exist	77	87	180	-	267	14	281	358	214
2 Tundakan	233	Exist	0	140	223	-	363	6	369	369	290
3 Sungin	116	Exist	0	94	110	-	204	3	207	207	163
4 Lok Batu	116	Exist	0	241	110	-	351	4	355	355	281
5 Balangan	2,172	New	0	-	-	13,040	13,040	348	13,388	13,388	10,432
6 Pitap	3,734	New	0	-	-	22,418	22,418	597	23,015	23,015	17,934
HULU SUNGAI TENGAH										
1 Talang	165	Exist	0	163	158	-	321	5	326	326	257
2 Tapuk	186	Exist	0	87	178	-	265	5	270	270	212
3 Teniyung	166	Exist	0	120	159	-	279	4	283	283	223
4 Batuh Hawang	160	Exist	57	17	153	-	170	10	180	237	186
5 Intangan	920	Exist	0	87	1,130	-	1,217	27	1,244	1,244	974
6 Kabaican	633	Exist	0	125	606	-	731	15	746	746	585
7 Mangunang	515	Exist	0	81	493	-	574	12	586	586	459
8 Haruyan Dayak	1,486	Exist	0	162	1,422	-	1,584	35	1,619	1,619	1,267
9 Batang Alai	6,223	New	0	-	-	37,758	37,758	996	38,754	38,754	30,206
10 Barabai	2,278	New	0	-	-	13,677	13,677	364	14,041	14,041	10,942
HULU SUNGAI SELATAN										
1 Telaga Lanas	1,534	Exist	0	356	1,468	-	1,824	37	1,861	1,861	1,459
2 Tayub	178	Exist	0	54	191	-	245	5	250	250	196
3 Nunungan	36	Exist	0	95	158	-	253	4	257	257	202
4 Kuangan	143	Exist	0	108	225	-	333	6	339	339	266
5 Pamujan	214	Exist	0	56	335	-	391	8	399	399	313
6 Hawan	71	Exist	403	105	245	-	350	41	391	794	280
7 Tsal	107	Exist	0	208	277	-	485	8	493	493	388
8 Jaran	143	Exist	0	14	76	-	90	7	97	97	72
9 Kayu Habang	347	New	0	-	-	1,072	1,072	56	1,128	1,128	858
10 Amandit	6,432	New	0	-	-	40,358	40,358	1,029	41,387	41,387	32,286
TAPIN										
1 Lok Paikat	392	Exist	294	67	375	-	442	42	484	778	354
2 Pampain	392	Exist	0	164	375	-	539	10	549	549	431
3 Nupadang	253	Exist	246	7	242	-	249	34	283	529	199
4 Tatakan	99	Exist	0	77	95	-	172	2	174	174	138
5 Pulau Pinang	270	Exist	0	2	259	-	261	6	267	267	209
6 Rampamang	146	Exist	0	30	140	-	170	3	173	173	136
7 Binuang	1,106	Exist	1,196	90	1,059	-	1,149	161	1,310	2,506	919
8 Tapin	5,528	New	0	-	-	34,107	34,107	853	34,960	34,960	27,286
9 Labuhan	900	New	0	-	-	927	927	48	975	975	742

Note: w/: Construction cost only for main sysytem

Table 2.2 Breakdown of Financial Construction Cost and Estimate of Economic Construction Cost for Drainage Project

Kabupaten/ Name of Scheme	Type of Scheme	Level of Improvement	Area	Present to W/O P.	Improvement Stage: W/P to W/P	W/O to Type A	Type A to Type D	W/O to Type D	Type D to Type E	Sub-Total	Total Cost of All Stages	Economic Construction Cost
			(ha)	(Rp.MN)	(Rp.MN)	(Rp.MN)	(Rp.MN)	(Rp.MN)	(Rp.MN)	(Rp.MN)	(Rp.MN)	(Rp.MN)
TABALONG												
1 S.Gumpa	Exist	W/O to T-D	1,500	241	3,112	-	-	-	-	3,112	3,353	2,490
2 S.Rampang	Exist	W/O to T-E	600	82	804	-	-	-	-	804	886	643
3 S.Paliat	Exist	W/O to T-D	475	37	700	-	-	-	-	700	737	560
4 S.Pimping	Exist	W/O to T-D	150	10	299	-	-	-	-	299	309	239
5 S.Bintro	Exist	W/O to T-D	100	3	172	-	-	-	-	172	175	138
6 S.Nanti	Exist	W/O to T-D	200	22	348	-	-	-	-	348	370	278
7 Tamumi	New	W/O to T-E	150	0	585	-	-	-	-	585	585	468
8 Bangkiling	New	W/O to T-E	400	0	1,457	-	-	-	-	1,457	1,457	1,166
9 Pulau Kuu	New	W/O to T-E	280	0	1,457	-	-	-	-	1,457	1,457	1,166
HULU SUNGAI UTARA												
1 S.Pinang Habang	Exist	W/O to T-D	1,995	533	2,658	-	-	-	-	2,658	3,191	2,126
2 R.Batu Manei	Exist	W/O to T-D	1,360	210	1,636	-	-	-	-	1,636	1,846	1,309
3 R.Pinang Kara	Planned	W/O to T-A	4,600	0	-	4,495	-	-	-	4,495	-	3,596
	-do-	T-A to T-D	4,600	0	-	-	7,397	-	-	7,397	11,892	5,918
HULU SUNGAI TENGAH												
1 R.Taras	Exist	W/O to T-D	300	39	725	-	-	-	-	725	764	580
2 R.Bangkau	Exist	W/O to T-D	900	178	-	-	-	1,595	-	1,595	-	1,276
3 Tg.Jarastih	Exist	W/O to T-E	1,194	0	1,510	-	-	-	-	1,310	1,310	1,048
4 Tg.Semanggi Kambat	Exist	W/O to T-E	2,640	0	3,362	-	-	-	-	2,170	2,170	1,736
5 R.Bangkau Extension	Planned	W/O to T-D	600	0	-	-	-	1,372	-	1,372	1,372	1,098
6 S.Sirung	New	W/O to T-D	2,500	0	-	-	-	5,719	-	5,719	5,719	4,575
7 Binjai	New	W/O to T-D	800	0	-	-	-	1,833	-	1,833	1,833	1,466
HULU SUNGAI SELATAN												
1 Tg.Langkan	Exist	W/O to T-E	2,005	237	2,758	-	-	-	-	2,758	2,995	2,206
2 Tg.Pengaraban	Exist	W/O to T-E	500	0	1,135	-	-	-	-	1,135	1,135	908
3 S.Kajang	Exist	W/O to T-D	1,500	0	1,844	-	-	-	-	1,844	1,844	1,475
4 S.Tirta Bahalayu	Exist	W/O to T-E	600	98	1,150	-	-	-	-	1,150	1,248	920
5 S.Tanimen	Exist	W/O to T-D	300	0	699	-	-	-	-	699	699	559
6 R.Negara	Exist	W/O to T-D	5,200	0	-	-	-	6,229	-	6,229	6,229	4,983
7 S.Balam	Exist	W/O to T-D	600	29	876	-	-	-	-	876	905	701
8 R.Ankinang	Planned	W/O to T-D	1,500	0	-	-	-	3,525	-	3,525	3,525	2,820
9 R.Garis	Planned	W/O to T-D	1,500	0	-	-	-	3,525	-	3,525	3,525	2,820
10 R.Negara Extension	Planned	W/O to T-D	500	0	-	-	-	1,067	-	1,067	1,067	854
11 S.Hadangan	New	W/O to T-A	3,800	0	-	2,522	-	-	-	2,522	-	2,018
	-do-	T-A to T-D	3,800	0	-	-	5,573	-	-	5,573	8,095	4,458
12 S.Batang Alai	New	W/O to T-A	1,500	0	-	996	-	-	-	996	-	797
	-do-	T-A to T-D	1,500	0	-	-	2,199	-	-	2,199	3,195	1,759
13 Tinjau Langit	New	W/O to T-A	5,000	0	-	3,319	-	-	-	3,319	-	2,655
	-do-	T-A to T-D	5,000	0	-	-	7,333	-	-	7,333	10,652	5,866
TAPIN												
1 S.Udul	Exist	W/O to T-D	1,000	0	1,412	-	-	-	-	1,412	1,412	1,130
2 R.Muning	Exist	W/O to T-E	8,000	653	11,003	-	-	-	-	11,003	11,656	8,802
3 S.Garis Hulat	Exist	W/O to T-D	1,000	139	1,329	-	-	-	-	1,329	1,468	1,063
4 S.Tapin Gadung	Exist	W/O to T-D	1,000	118	1,621	-	-	-	-	1,621	1,739	1,297
5 S.Pinang Babaris	Exist	W/O to T-E	300	10	581	-	-	-	-	581	591	465
6 R.Belanti	Exist	W/O to T-E	2,750	0	4,205	-	-	-	-	4,205	4,205	3,364
7 S.Damar	Exist	W/O to T-D	1,250	158	1,588	-	-	-	-	1,588	1,746	1,270
8 S.Selai	Exist	W/O to T-D	400	39	559	-	-	-	-	559	598	447
9 S.Mastra	Exist	W/O to T-D	150	0	315	-	-	-	-	315	315	252
10 Sth Pinta Air	Exist	W/O to T-E	400	0	627	-	-	-	-	627	627	502
11 R.Bahasan	Planned	W/O to T-D	2,000	0	-	-	-	-	-	3,991	3,991	3,193
12 R.Muning Extension	Planned	W/O to T-D	2,000	0	-	-	-	3,991	-	3,991	-	3,193
	-do-	T-D to T-E	2,000	0	-	-	-	-	2,091	2,091	6,082	1,673
13 R.Muning 2nd Extension	New	W/O to T-D	2,000	0	-	-	-	3,929	-	3,929	-	3,143
	-do-	T-D to T-E	2,000	0	-	-	-	-	2,091	2,091	6,020	1,673

Table 2.3 Breakdown of Financial Construction Cost and Estimate of Economic Construction Cost for Polder Project

Kabupaten/ Name of Scheme		Type of Scheme	Area (ha)	Present to W/O (Rp.MN)	Without Project (W/O) to With Project (W/P) Rehabil. & Renewal (Rp.MN)	On-farm Grading-up (Rp.MN)	Sub-Total (Rp.MN)	Land Acquisition (Rp.MN)	Total (Rp.MN)	Total Cost (Present to W/P) (Rp.MN)	Economic Construction Cost (Rp.MN)
TABALONG											
1	Ampukung	Exist	418	0	348	0	348	0	348	348	278
2	Tigaron	Exist	144	0	283	0	283	0	283	283	226
HULU SUNGAI UTARA											
1	Padang Gusti	Exist	468	0	1,644	0	1,644	0	1,644	1,644	1,315
2	Bakar	Exist	2,344	0	1,723	0	1,723	0	1,723	1,723	1,378
3	Pakacangan	Exist	1,694	0	2,049	0	2,049	0	2,049	2,049	1,639
4	Kaludan	Exist	2,300	0	26	0	26	0	26	26	21
5	Murung Bayun a/	Exist	1,737	0	-	-	-	-	-	-	-
6	Simpang Empat	Exist	1,274	0	39	0	39	0	39	39	31
7	Alabio	Exist	4,500	0	8,217	0	8,217	0	8,217	8,217	6,574
8	Lampihong	New	2,800	0	23,778	0	23,778	0	23,778	23,778	19,022
HULU SUNGAI SELATAN											
1	Kalumpang	New	600	0	7,733	0	7,733	0	7,733	7,733	6,186

Table 2.4 Breakdown of Financial Construction Cost and Estimate of Economic Construction Cost for Fishery Project

Kabupaten/ Name of Scheme		Type of Scheme	Area (ha)	Present to W/O (Rp.MN)	Without Project (W/O) to With Project (W/P) Rehabil. & Renewal (Rp.MN)	On-farm Grading-up (Rp.MN)	Sub-Total (Rp.MN)	Land Acquisition (Rp.MN)	Total (Rp.MN)	Total Cost (Present to W/P) (Rp.MN)	Economic Construction Cost (Rp.MN)
HULU SUNGAI UTARA											
1	Alabio	New a/	100	0	522	0	522	0	522	522	418
		New b/	1,000	0	8,816	0	8,816	0	8,815	8,816	7,053
TAPIN											
1	Margasari	New c/	0	0	32,448	0	32,448	0	32,448	32,448	25,958

Note: a/; Level of development; from without project to with project of short-term development
b/; Level of development; from with project of short-term development to with project of medium-term development
c/; Level of development; from without project to with project of long-term development

Table 2.5 Financial and Economic Prices of Agricultural Products and Inputs

	Unit		Financial 1988 a/	Economic 2000 b/	
Products					
Paddy	Kg	Dry clean paddy	267	276	c/
Maize	Kg	Dry grain	300	209	c/
Cassava	Kg	Fresh roots	85	85	c/
Sweet potato	Kg	Fresh roots	150	150	c/
Soybeans	Kg	Dry beans	700	428	c/
Groundnuts	Kg	Shelled	885	820	c/
Mungbeans	Kg	Dry beans	825	635	d/
Vegetables	Kg	As cucumber	245	245	c/
Rubber	Kg	RSS	1,600	1,650	f/
Fishes	Kg	All kind, average	1,316	1,316	c/
Shrimps	Kg	head on	7,450	7,840	c/
Inputs					
Seeds					
Paddy	Kg		270	330	g/
Maize	Kg		500	250	g/
Cassava	Seedling		4	4	c/
Sweet potato	Seedling		2	2	c/
Soybeans	Kg		1,250	515	g/
Groundnuts	Kg		2,500	985	g/
Mungbeans	Kg		910	760	g/
Vegetables	Kg		15,000	15,000	c/
Rubber	Seedling		480	480	c/
Shrimps	fry		7.5	7.5	c/
Fertilizers					
Urea	Kg		135	399	c/
TSP	Kg		135	507	c/
KCL	Kg		135	325	c/
Agro-chemicals					
Pesticides	Kg		5,200	7,500	h/
Rodenticides	Kg		1,500	2,200	h/
Shrimp Feed	Kg		1,400	1,080	d/
Labor					
Family labor	man-day		-	2,100	i/
Hired labor	man-day		3,000	2,100	i/
Animal labor	team-day		8,000	8,000	c/

a/: Prevailing present prices in the Study Area which are estimated based on the data Kanwil Agriculture, South Kalimantan are assumed as 1988 financial farm gate prices.
b/: Forecasted 2000 prices based on 1988 constant US dollars.
c/: See Table 2.6
d/: Derived by applying the long-term average ratio between the financial prices of soybeans and groundnuts, and the projected these economic prices.
e/: Assumed that economic values are equal to the respective financial prices.
f/: Estimated ratio between 1988 price (US$1.44/kg) and 2,000 price (US$1.48/kg) both at CIF New York in terms of 1988 constant prices is applied to the financial price.
g/: A premium of 20% to allow for storage losses, handling, etc. is added to the equivalent economic farm gate prices.
h/: The estimated government pesticide subsidy (about Rp.42 billion for 14,210 tons in 1986/87) is added to the financial prices.
i/: Economic shadow wage ratio of 70% is applied.

Table 2.6 Economic Price Structure for Major Agricultural Products and Fertilizers

	Operation	US$/ton	Rp/kg
Rice/Paddy (Import substitution value)			
Export price, Thai 5% broken, FOB Bankok a/		234	
Quality adjustment	90%	211	
Freight and insurance	+	32	
CIF price Banjarmasin b/	=	243	421
Port handling, storage and losses	+		30
Transport to wholesaler	+		6
Transport mill to wholesaler	-		3
Traders margins	-		11
Ex-mill price	=		442
Conversion to paddy	68%		300
Milling cost	-		11
Transport farm to mill	-		13
Economic farm gate price	=		276
Maize (Import substitution value)			
FOB US Gulf port a/		102	
Freight and insurance	+	22	
CIF price Banjarmasin b/	=	124	214
Port handling, storage and losses	+		11
Transport to wholesaler	+		11
Traders margin	-		13
Transport farm to wholesaler	-		13
Economic farm gate price	=		209
Soybeans (Import substitution value)			
CIF Rotterdam a/		208	
Freight and insurance	+	38	
CIF price Banjarmasin b/	=	246	425
Port handling, storage and losses	+		21
Transport to wholesaler	+		6
Traders margin	-		11
Transport farm to wholesaler	-		13
Economic farm gate price	=		428
Groundnuts (Import substitution value)			
Groundnuts oil price a/		641	
Ratio Indonesian import/groundnuts oil price	72%	462	
CIF price Banjarmasin shelled groundnuts b/	=	462	798
Port handling, storage and losses	+		40
Transport to wholesaler	+		6
Traders margin	-		11
Transport farm to wholesaler	-		13
Economic farm gate price	=		820
Shrimps (Export substitution value)			
FOB Banjarmasin b/		6,500	11,245
Quality testing fee	0.1%		11
Handling and transport to processor	-		60
Processing cost and margin	-		2,860
Processor buying price	=		8,314
Transport and marketing cost farm to processing plant	-		475
Economic farm gate price	rounded		7,840
Urea (Export substitution value)			
FOB Europe a/		186	
Freight and insurance	+	16	
Ex-factory Palembang b/	=	202	350
Transport to wholesaler	+		22
Storage and wholesalers' margin	+		17
Transport to farm	+		11
Economic farm gate price	=		399
TSP (Import substitution value)			
FOB US Gulf a/		205	
Freight and insurance	+	60	
CIF Banjarmasin b/	=	265	458
Transport, storage and wholesalers' margin	+		39
Transport to farm	+		11
Economic farm gate price	=		507
KCL (Import substitution value)			
FOB Vancouver a/		105	
Freight and insurance	+	54	
CIF Banjarmasin b/	=	159	275
Transport, storage and wholesalers' margin	+		39
Transport to farm	+		11
Economic farm gate price	=		325

Note: a/; Based on Revision of Commodity Price Forecasts and Quarterly Review of Commodity Markets, September 1988, World Bank
b/; Prices converted at an exchange rate of US$ 1.0 = Rp. 1,730

Table 2.7 Crop Budget per Hectare under Without Project Condition (Economic Prices)

Item	Unit		(1) Wetland Paddy (i) Existing Irrigation Scheme Q'ty	Price (Rp.)	Amount ('000Rp)	(ii) Existing Drainage and Polder Q'ty	Price (Rp.)	Amount ('000Rp)	(2) Palawija Crops (Mungbeans) Q'ty	Price (Rp.)	Amount ('000Rp)	(3) Inland Open Water Fishery Q'ty	Price (Rp.)	Amount ('000Rp)
A. Gross Income														
- Yield	(ton)	a.	2.5	$276,000	690.0	1.5	276,000	414.0	0.5	635,000	317.5	0.083	1,316,000	109.3
	(ton)	b.	3.5	276,000	966.0									
	(ton)	c.	4.0	276,000	1,104.0									
B. Production Cost														
1) Farm Input														
- Seed	(kg)		25	330	8.3	20	330	6.6	25	760	19.0	0		0.0
- Fertilizer														
Urea	(kg)		100	399	39.9	0	399	0.0	0	399	0.0	0		0.0
TSP	(kg)		50	507	25.4	0	507	0.0	0	507	0.0	0		0.0
KCl	(kg)		0	325	0.0	0	325	0.0	0		0.0	0		0.0
- Agro-chemical														
Pesticide	(lit.)		3	7,500	22.5	0	7,500	0.0	0	7,500	0.0	0		0.0
Rodenticide	(kg)		3	2,200	6.6	0	2,200	0.0	0		0.0	0		0.0
(Sub-Total)					102.6			6.6			19.0			0.0
2) Labour Requirement (m/d)			140	2,100	294.0	120	2,100	252.0	50	2,100	105.0	15.5	2,100	32.6
3) Miscelloneous a/ (% of Sub-Total 1 + 2)			10		39.7	10		25.9	5		6.2			31.1
Total Production Cost					436.3			284.5			130.2			63.7
C. Net Return		a.			253.7			129.5			187.3			45.6
		b.			529.7									
		c.			667.7									

Note: a/: For inland open water fishery, fishing gear purchase, boat depreciation cost, etc.

Table 2.8 Crop Budget per Hectare under With Project Condition (Economic Prices) (1/2)

Item	Unit	(1) Wetland Paddy						(2) Palawija Crops (Mungbeans)		
		(i) Existing Irrigation Scheme			(ii) Existing Drainage and Polder					
		Q'ty	Price (Rp.)	Amount ('000Rp)	Q'ty	Price (Rp.)	Amount ('000Rp)	Q'ty	Price (Rp.)	Amount ('000Rp)
A. Gross Income										
- Yield	(ton)	5.5	276,000	1,518.0	3.0	276,000	828.0	1.5	635,000	952.5
B. Production Cost										
1) Farm Input										
- Seed	(kg)	40	330	13.2	25	330	8.3	40	760	30.4
- Fertilizer										
Urea	(kg)	200	399	79.8	100	399	39.9	100	399	39.9
TSP	(kg)	150	507	76.1	50	507	25.4	100	507	50.7
KCl	(kg)	100	325	32.5	0	325	0.0			
- Agro-chemical										
Pesticide	(lit.)	1	7,500	7.5	1	7,500	7.5	1	7,500	7.5
Rodenticide	(kg)	3	2,200	6.6	3	2,200	6.6	2	2,200	4.4
(Sub-Total)				215.7			87.6			128.5
2) Labour Requirement (m/d)		200	2,100	420.0	150	2,100	315.0	105	2,100	220.5
3) Animal Power (t/d)		15	8,000	120.0	15	8,000	120.0	10	8,000	80.0
4) Miscelloneous (% of Sub-Total 1 to 3)		5		37.8	10		52.3	5		21.5
Total Production Cost				793.4			574.9			450.5
C. Net Return				724.6			253.1			502.1

Table 2.8 Crop Budget per Hectare under With Project Condition (Economic Prices) (2/2)

Item	Unit	(3) Shrimps								
		(i) Short-Term Development in Alabio			(ii) Medium-Term Development in Alabio			(iii) Long-Term Development in Margasari		
		Q'ty	Price (Rp.)	Amount (1000Rp)	Q'ty	Price (Rp.)	Amount (1000Rp)	Q'ty	Price (Rp.)	Amount (1000Rp)
A. Gross Income										
- Yield	(ton)	0.4	7,840,000	3,136.0	1.2	7,840,000	9,408.0	2.4	7,840,000	18,816.0
B. Production Cost										
1) Seed	(Unit)	25,000	7.5	187.5	50,000	7.5	375.0	100,000	7.5	750.0
2) Fertilizer										
- Urea	(kg)	120	399	47.9	320	399	127.7	320	399	127.7
3) Chemicals/Others				9.6			25.5			25.5
4) Feeding Stuffs										
- Compound feed	(kg)									
For grow-out		200	1,080	216.0	1,200	1,080	1,296.0	4,800	1,080	5,184.0
For nursery				0.0			259.2			1,036.8
- Other feed				43.2			311.0			0.0
5) Labour Requirement	(m/d)	25.0	2,100	52.5	366.7	2,100	770.1	600.0	2,100	1,260.0
6) Miscelloneous				156.8			470.4			940.8
Total Production Cost				713.5			3,634.9			9,324.8
C. Net Return				2,422.5			5,773.1			9,491.2

Table 2.9 Estimate of Economic Benefit for Irrigation Project (1/7)

Name of Scheme	(Season)	Area Harvested (ha)	Yield (t/ha)	Production ('000 ton)	Unit Price (Rp./kg)	Unit.Prod. Cost (Rp./ha)	Grs.Prod. Value (Milln.Rp.)	Totl.Prod. Cost (Milln.Rp.)	Net Return (Milln.Rp.)
KAB. TABALONG									
1. Jaro a/									
- WO/Project	(Wet)	625	5.5	3.44	276	793,433	948.75	495.90	452.85
	(Dry)	220	5.5	1.21	276	793,433	333.96	174.56	159.40
(Total)				4.65			1,282.71	670.45	612.26
- W/Project	(Wet)	625	5.5	3.44	276	793,433	948.75	495.90	452.85
	(Dry)	220	5.5	1.21	276	793,433	333.96	174.56	159.40
(Total)		845		4.65			1,282.71	670.45	612.26
- Incremental				0.00			0.00	0.00	0.00
2. Jaro Bawah									
- WO/Project	(Wet)	200	2.5	0.50	276	436,260	138.00	87.25	50.75
	(Dry)	0	2.5	0.00	276	436,260	0.00	0.00	0.00
(Total)				0.50			138.00	87.25	50.75
- W/Project	(Wet)	200	5.5	1.10	276	793,433	303.60	158.69	144.91
	(Dry)	200	5.5	1.10	276	793,433	303.60	158.69	144.91
(Total)		400		2.20			607.20	317.37	289.83
- Incremental				1.70			469.20	230.12	239.08
3. Gumba									
- WO/Project	(Wet)	254	3.5	0.89	276	436,260	245.36	110.81	134.55
	(Dry)	254	3.5	0.89	276	436,260	245.36	110.81	134.55
(Total)				1.78			490.73	221.62	269.11
- W/Project	(Wet)	254	5.5	1.40	276	793,433	385.57	201.53	184.04
	(Dry)	254	5.5	1.40	276	793,433	385.57	201.53	184.04
(Total)		508		2.79			771.14	403.06	368.08
- Incremental				1.02			280.42	181.44	98.97
4. Sungai Kati									
- WO/Project	(Wet)	280	2.5	0.70	276	436,260	193.20	122.15	71.05
	(Dry)	0	2.5	0.00	276	436,260	0.00	0.00	0.00
(Total)				0.70			193.20	122.15	71.05
- W/Project	(Wet)	280	5.5	1.54	276	793,433	425.04	222.16	202.88
	(Dry)	42	5.5	0.23	276	793,433	63.76	33.32	30.43
(Total)		322		1.77			488.80	255.49	233.31
- Incremental				1.07			295.60	133.33	162.26
5. Namun									
- WO/Project	(Wet)	64	2.5	0.16	276	436,260	44.16	27.92	16.24
	(Dry)	0	2.5	0.00	276	436,260	0.00	0.00	0.00
(Total)				0.16			44.16	27.92	16.24
- W/Project	(Wet)	64	5.5	0.35	276	793,433	97.15	50.78	46.37
	(Dry)	22	5.5	0.12	276	793,433	33.40	17.46	15.94
(Total)		86		0.47			130.55	68.24	62.31
- Incremental				0.31			86.39	40.32	46.07
6. Kinarum									
- WO/Project	(Wet)	408	2.5	1.02	276	436,260	281.52	177.99	103.53
	(Dry)	0	2.5	0.00	276	436,260	0.00	0.00	0.00
(Total)				1.02			281.52	177.99	103.53
- W/Project	(Wet)	408	5.5	2.24	276	793,433	619.34	323.72	295.62
	(Dry)	408	5.5	2.24	276	793,433	619.34	323.72	295.62
(Total)		816		4.49			1,238.69	647.44	591.25
- Incremental				3.47			957.17	469.45	487.72
7. Mihim									
- WO/Project	(Wet)	203	2.5	0.51	276	436,260	140.07	88.56	51.51
	(Dry)	0	2.5	0.00	276	436,260	0.00	0.00	0.00
(Total)				0.51			140.07	88.56	51.51
- W/Project	(Wet)	203	5.5	1.12	276	793,433	308.15	161.07	147.09
	(Dry)	203	5.5	1.12	276	793,433	308.15	161.07	147.09
(Total)		406		2.23			616.31	322.13	294.17
- Incremental				1.73			476.24	233.57	242.67

a/: Jaro scheme has already achieved the target yield.

Table 2.9 Estimate of Economic Benefit for Irrigation Project (2/7)

Name of Scheme	(Season)	Area Harvested (ha)	Yield (t/ha)	Production ('000 ton)	Unit Price (Rp./kg)	Unit.Prod. Cost (Rp./ha)	Grs.Prod. Value (Milln.Rp.)	Toll.Prod. Cost (Milln.Rp.)	Net Return (Milln.Rp.)
8. Batupulut									
- WO/Project	(Wet)	225	2.5	0.56	276	436,260	155.25	98.16	57.09
	(Dry)	0	2.5	0.00	276	436,260	0.00	0.00	0.00
(Total)				0.56			155.25	98.16	57.09
- W/Project	(Wet)	225	5.5	1.24	276	793,433	341.55	178.52	163.03
	(Dry)	162	5.5	0.89	276	793,433	245.92	128.54	117.38
(Total)		387		2.13			587.47	307.06	280.41
- Incremental				1.57			432.22	208.90	223.32
9. Bilas									
- WO/Project	(Wet)	643	2.5	1.61	276	436,260	443.67	480.52	163.15
	(Dry)	0	2.5	0.00	276	436,260	0.00	0.00	0.00
(Total)				1.61			443.67	280.52	163.15
- W/Project	(Wet)	643	5.5	3.54	276	793,433	976.07	510.18	465.90
	(Dry)	643	5.5	3.54	276	793,433	976.07	510.18	465.90
(Total)		1286		7.07			1,952.15	1,020.35	931.79
- Incremental				5.47			1,508.48	739.84	768.64
10. Banyu Tajun									
- WO/Project	(Wet)	750	2.5	1.88	276	436,260	517.50	327.20	190.31
	(Dry)	0	2.5	0.00	276	436,260	0.00	0.00	0.00
(Total)				1.88			517.50	327.20	190.31
- W/Project	(Wet)	750	5.5	4.13	276	793,433	1,138.50	595.07	543.43
	(Dry)	750	5.5	4.13	276	793,433	1,138.50	595.07	543.43
(Total)		1500		8.25			2,277.00	1,190.15	1,086.85
- Incremental				6.38			1,759.50	862.95	896.55
KAB. HULU SUNGAI UTARA									
1. Paran									
- WO/Project	(Wet)	188	3.5	0.66	276	436,260	181.61	82.02	99.59
	(Dry)	188	3.5	0.66	276	436,260	181.61	82.02	99.59
(Total)				1.32			363.22	164.03	199.18
- W/Project	(Wet)	188	5.5	1.03	276	793,433	285.38	149.17	136.22
	(Dry)	188	5.5	1.03	276	793,433	285.38	149.17	136.22
(Total)		376		2.07			570.77	298.33	272.44
- Incremental				0.75			207.55	134.30	73.26
2. Tundakan									
- WO/Project	(Wet)	233	3.5	0.82	276	436,260	225.08	101.65	123.43
	(Dry)	79	3.5	0.28	276	436,260	76.31	34.46	41.85
(Total)				1.09			301.39	136.11	165.28
- W/Project	(Wet)	233	5.5	1.28	276	793,433	353.69	184.87	168.82
	(Dry)	79	5.5	0.43	276	793,433	119.92	62.68	57.24
(Total)		312		1.72			473.62	247.55	226.07
- Incremental				0.62			172.22	111.44	60.79
3. Suapin									
- WO/Project	(Wet)	116	3.5	0.41	276	436,260	112.06	50.61	61.45
	(Dry)	40	3.5	0.14	276	436,260	38.64	17.45	21.19
(Total)				0.55			150.70	68.06	82.64
- W/Project	(Wet)	116	5.5	0.64	276	793,433	176.09	92.04	84.05
	(Dry)	40	5.5	0.22	276	793,433	60.72	31.74	28.98
(Total)		156		0.86			236.81	123.78	113.03
- Incremental				0.31			86.11	55.72	30.29
4. Lok Batu									
- WO/Project	(Wet)	116	3.5	0.41	276	436,260	112.06	50.61	61.45
	(Dry)	40	3.5	0.14	276	436,260	38.64	17.45	21.19
(Total)				0.55			150.70	68.06	82.64
- W/Project	(Wet)	116	5.5	0.64	276	793,433	176.09	92.04	84.05
	(Dry)	40	5.5	0.22	276	793,433	60.72	31.74	28.98
(Total)		156		0.86			236.81	123.78	113.03
- Incremental				0.31			86.11	55.72	30.39

Table 2.9 Estimate of Economic Benefit for Irrigation Project (3/7)

Name of Scheme	(Season)	Area Harvested (ha)	Yield (t/ha)	Production ('000 ton)	Unit Price (Rp./kg)	Unit.Prod. Cost (Rp./ha)	Grs.Prod. Value (Milln.Rp.)	Tot.Prod. Cost (Milln.Rp.)	Net Return (Milln.Rp.)
5. Balangan									
- WO/Project	(Wet)	2,172	2.5	5.43	276	436,260	1,498.68	947.56	551.12
	(Dry)	0	2.5	0.00	276	436,260	0.00	0.00	0.00
(Total)				5.43			1,498.68	947.56	551.12
- W/Project	(Wet)	2,172	5.5	11.95	276	793,433	3,297.10	1,723.34	1,573.76
	(Dry)	2,172	5.5	11.95	276	793,433	3,297.10	1,723.34	1,573.76
(Total)		4,344		23.89			6,594.19	3,446.67	3,147.52
- Incremental				18.46			5,095.51	2,499.11	2,596.40
6. Pitap									
- WO/Project	(Wet)	3,734	1.5	5.60	276	284,460	1,545.88	1,062.17	483.70
	(Dry)	0	1.5	0.00	276	284,460	0.00	0.00	0.00
(Total)				5.60			1,545.88	1,062.17	483.70
- W/Project	(Wet)	3,734	5.5	20.54	276	793,433	5,668.21	2,962.68	2,705.53
	(Dry)	3,734	5.5	20.54	276	793,433	5,668.21	2,962.68	2,705.53
(Total)		7,468		41.07			11,336.42	5,925.36	5,411.07
- Incremental				35.47			9,790.55	4,863.18	4,927.36
KAB. HULU SUNGAI TENGAH									
1. Talang									
- WO/Project	(Wet)	165	3.5	0.58	276	436,260	159.39	71.98	87.41
	(Dry)	165	3.5	0.58	276	436,260	159.39	71.98	87.41
(Total)				1.16			318.78	143.97	174.81
- W/Project	(Wet)	165	5.5	0.91	276	793,433	250.47	130.92	119.55
	(Dry)	137	5.5	0.75	276	793,433	207.00	108.70	98.30
(Total)		302		1.66			457.47	239.62	217.85
- Incremental				0.50			138.69	95.65	43.04
2. Tapuk									
- WO/Project	(Wet)	186	3.5	0.65	276	436,260	179.68	81.14	98.53
	(Dry)	186	3.5	0.65	276	436,260	179.68	81.14	98.53
(Total)				1.30			359.35	162.29	197.06
- W/Project	(Wet)	186	5.5	1.02	276	793,433	282.35	147.58	134.77
	(Dry)	186	5.5	1.02	276	793,433	282.35	147.58	134.70
(Total)		372		2.05			564.70	295.16	269.54
- Incremental				0.74			205.34	132.87	72.48
3. Tamiyang									
- WO/Project	(Wet)	166	3.5	0.58	276	436,260	160.36	72.42	87.94
	(Dry)	164	3.5	0.57	276	436,260	158.42	71.55	86.88
(Total)				1.16			318.78	143.97	174.81
- W/Project	(Wet)	166	5.5	0.91	276	793,433	251.99	131.71	120.28
	(Dry)	164	5.5	0.90	276	793,433	248.95	130.12	118.83
(Total)		330		1.82			500.94	261.83	239.11
- Incremental				0.66			182.16	117.87	64.29
4. Banih Hawang									
- WO/Project	(Wet)	160	3.5	0.56	276	436,260	154.56	69.80	84.76
	(Dry)	160	3.5	0.56	276	436,260	154.56	69.80	84.76
(Total)				1.12			309.12	139.60	169.52
- W/Project	(Wet)	160	5.5	0.88	276	793,433	242.88	261.95	115.93
	(Dry)	160	5.5	0.88	276	793,433	242.88	126.95	115.93
(Total)		320		1.76			485.76	253.90	231.86
- Incremental				0.64			176.64	114.30	62.34
5. Intangan									
- WO/Project	(Wet)	920	4.0	3.68	276	436,260	1,015.68	401.36	614.32
	(Dry)	437	4.0	1.75	276	436,260	482.45	190.65	291.80
(Total)				5.43			1,498.13	592.00	906.12
- W/Project	(Wet)	920	5.5	5.06	276	793,433	1,396.56	729.96	666.60
	(Dry)	437	5.5	2.40	276	793,433	663.37	346.73	316.64
(Total)		1,357		7.46			2,059.93	1,076.69	983.24
- Incremental				2.04			561.80	484.68	77.11

Table 2.9 *Estimate of Economic Benefit for Irrigation Project (4/7)*

Name of Scheme	(Season)	Area Harvested (ha)	Yield (t/ha)	Production ('000 ton)	Unit Price (Rp./kg)	Unit.Prod. Cost (Rp./ha)	Grs.Prod. Value (Milln.Rp.)	Tot.Prod. Cost (Milln.Rp.)	Net Return (Milln.Rp.)
6. Kahakan									
- WO/Project	(Wet)	633	4.0	2.53	276	436,260	698.83	276.15	422.68
	(Dry)	301	4.0	1.20	276	436,260	332.30	131.31	200.99
(Total)				3.74			1,031.14	407.47	623.67
- W/Project	(Wet)	633	5.5	3.48	276	793,433	960.89	502.24	458.65
	(Dry)	301	5.5	1.66	276	793,433	456.92	238.82	218.09
(Total)		934		5.14			1,417.81	741.07	676.75
- Incremental				1.40			386.68	333.60	53.08
7. Mangunang									
- WO/Project	(Wet)	515	3.5	1.80	276	436,260	497.49	224.67	272.82
	(Dry)	515	3.5	1.80	276	436,260	497.49	224.67	272.82
(Total)				3.61			994.98	449.35	545.63
- W/Project	(Wet)	515	5.5	2.83	276	793,433	781.77	408.62	373.15
	(Dry)	515	5.5	2.83	276	793,433	781.77	408.62	373.15
(Total)		1,030		5.67			1,563.54	817.24	746.30
- Incremental				2.06			568.56	367.89	200.67
8. Hanyan Dayak									
- WO/Project	(Wet)	1,486	4.0	5.94	276	436,260	1,640.54	648.28	992.26
	(Dry)	1,486	4.0	5.94	296	436,260	1,640.54	648.28	992.26
(Total)				11.89			3,281.09	1,296.56	1,984.52
- W/Project	(Wet)	1,486	5.5	8.17	276	793,433	2,255.75	1,179.04	1,076.71
	(Dry)	1,486	5.5	8.17	276	793,433	2,255.75	1,179.04	1,076.71
(Total)		2,972		16.35			4,511.50	2,358.08	2,153.41
- Incremental				4.46			1,230.41	1,061.52	168.89
9. Batang Alai									
- WO/Project	(Wet)	6,223	1.5	9.33	276	284,460	2,576.32	1,770.19	806.13
	(Dry)	0	1.5	0.00	276	284,460	0.00	0.00	0.00
(Total)				9.33			2,576.32	1,770.19	806.13
- W/Project	(Wet)	6,223	5.5	32.23	276	793,433	9,446.51	4,937.53	4,508.98
	(Dry)	6,223	5.5	34.23	276	793,433	9,446.51	4,937.53	4,508.98
(Total)		12,446		68.45			18,893.03	9,875.07	9,017.96
- Incremental				59.12			16,316.71	8,104.87	8,211.83
10. Barabai									
- WO/Project	(Wet)	2,278	1.5	3.42	276	284,460	943.09	648.00	295.09
	(Dry)	0	1.5	0.00	276	284,460	0.00	0.00	0.00
(Total)				3.42			943.09	648.00	295.09
- W/Project	(Wet)	2,278	5.5	12.53	276	793,433	3,458.00	1,807.44	1,650.56
	(Dry)	2,278	5.5	12.53	276	793,433	3,458.00	1,807.44	1,650.56
(Total)		4,556		25.06			6,916.01	3,614.88	3,301.13
- Incremental				21.64			5,972.92	2,966.88	3,006.04
KAB. HULU SUNGAI SELATAN									
1. Telaga Langsat									
- WO/Project	(Wet)	1,534	4.0	6.14	276	436,260	1,693.54	669.22	1,024.31
	(Dry)	487	4.0	1.95	276	436,260	537.65	212.46	325.19
(Total)				8.08			2,231.18	881.68	1,349.50
- W/Project	(Wet)	1,534	5.5	8.44	276	793,433	2,328.61	1,217.13	1,111.49
	(Dry)	487	5.5	2.68	276	793,433	739.27	386.40	352.86
(Total)		2,021		11.12			3,067.88	1,603.53	1,464.35
- Incremental				3.03			836.69	721.85	114.85
2. Tayub									
- WO/Project	(Wet)	178	3.5	0.62	276	436,260	171.95	77.65	94.29
	(Dry)	57	3.5	0.20	276	436,260	55.06	24.87	30.20
(Total)				0.82			227.01	102.52	124.49
- W/Project	(Wet)	178	5.5	0.98	276	793,433	270.20	141.23	128.97
	(Dry)	57	5.5	0.31	276	793,433	86.53	45.23	41.30
(Total)		235		1.29			356.73	186.46	170.27
- Incremental				0.47			129.72	83.94	45.78

Table 2.9 Estimate of Economic Benefit for Irrigation Project (5/7)

Name of Scheme	(Season)	Area Harvested (ha)	Yield (t/ha)	Production ('000 ton)	Unit Price (Rp./kg)	Unit.Prod. Cost (Rp./ha)	Grs.Prod. Value (Milln.Rp.)	Tot.Prod. Cost (Milln.Rp.)	Net Return (Milln.Rp.)
3. Nunungin									
- WO/Project	(Wet)	36	3.5	0.13	276	436,260	34.78	15.71	19.07
	(Dry)	11	3.5	0.04	276	436,260	10.63	4.80	5.83
(Total)				0.16			45.40	20.50	24.90
- W/Project	(Wet)	36	5.5	0.20	276	793,433	54.65	28.56	26.08
	(Dry)	11	5.5	0.06	276	793,433	16.70	8.73	7.97
(Total)		47		0.26			71.35	37.29	34.05
- Incremental				0.09			25.94	16.79	9.16
4. Kuangan									
- WO/Project	(Wet)	143	3.5	0.50	276	436,260	138.14	62.39	75.75
	(Dry)	45	3.5	0.16	276	436,260	43.47	19.63	23.84
(Total)				0.66			181.61	82.02	99.59
- W/Project	(Wet)	143	5.5	0.79	276	793,433	217.07	113.46	103.61
	(Dry)	45	5.5	0.25	276	793,433	68.31	35.70	32.61
(Total)		188		1.03			285.38	149.17	136.22
- Incremental				0.38			103.78	67.15	36.63
5. Pamujaan									
- WO/Project	(Wet)	214	3.5	0.75	276	436,260	206.72	93.36	113.36
	(Dry)	68	3.5	0.24	276	436,260	65.69	29.67	36.02
(Total)				0.99			272.41	123.03	149.39
- W/Project	(Wet)	214	5.5	1.18	276	793,433	324.85	169.79	155.06
	(Dry)	68	5.5	0.37	276	793,433	103.22	53.95	49.27
(Total)		282		1.55			428.08	223.75	204.33
- Incremental				0.56			155.66	100.72	54.94
6. Hawatu									
- WO/Project	(Wet)	71	3.5	0.25	276	436,260	68.59	30.97	37.61
	(Dry)	23	3.5	0.08	276	436,260	22.22	10.03	12.18
(Total)				0.33			90.80	41.01	49.80
- W/Project	(Wet)	71	5.5	0.39	276	793,433	107.78	56.33	51.44
	(Dry)	23	5.5	0.13	276	793,433	34.91	18.25	16.67
(Total)		94		0.52			142.69	74.58	68.11
- Incremental				0.19			51.89	33.57	18.31
7. Taal									
- WO/Project	(Wet)	107	3.5	0.37	276	436,260	103.36	46.68	56.68
	(Dry)	34	3.5	0.12	276	436,260	32.84	14.83	18.01
(Total)				0.49			136.21	61.51	74.69
- W/Project	(Wet)	107	5.5	0.59	276	793,433	162.43	84.90	77.53
	(Dry)	34	5.5	0.19	276	793,433	51.61	26.98	24.64
(Total)		141		0.78			214.04	111.87	102.16
- Incremental				0.28			77.83	50.36	27.47
8. Jarau									
- WO/Project	(Wet)	143	4.0	0.57	276	436,260	157.87	62.39	95.49
	(Dry)	45	4.0	0.18	276	436,260	49.68	19.63	30.05
(Total)				0.75			207.55	82.02	125.54
- W/Project	(Wet)	143	5.5	0.79	276	793,433	217.07	113.46	103.61
	(Dry)	45	5.5	0.25	276	793,433	68.31	35.70	32.61
(Total)		188		1.03			285.38	149.17	136.22
- Incremental				0.28			77.83	67.15	10.68
9. Kayu Habang									
- WO/Project	(Wet)	0	2.5	0.00	276	436,260	0.00	0.00	0.00
	(Dry)	0	2.5	0.00	276	436,260	0.00	0.00	0.00
(Total)				0.00			0.00	0.00	0.00
- W/Project	(Wet)	347	5.5	1.91	276	793,433	526.75	275.32	251.42
	(Dry)	147	5.5	0.81	276	793,433	223.15	116.63	106.51
(Total)		494		2.72			749.89	391.96	357.94
- Incremental				2.72			749.89	391.96	357.94

Table 2.9 Estimate of Economic Benefit for Irrigation Project (6/7)

Name of Scheme	(Season)	Area Harvested (ha)	Yield (t/ha)	Production ('000 ton)	Unit Price (Rp./kg)	Unit.Prod. Cost (Rp./ha)	Grs.Prod. Value (Milln.Rp.)	Tott.Prod. Cost (Milln.Rp.)	Net Return (Milln.Rp.)
10. Amandit									
- WO/Project	(Wet)	6,432	1.5	9.65	276	284,460	2,662.85	1,829.65	833.20
	(Dry)	0	1.5	0.00	276	284,460	0.00	0.00	0.00
(Total)				9.65			2,662.85	1,829.65	833.20
- W/Project	(Wet)	6,432	5.5	35.38	276	793,433	9,763.78	5,103.36	4,660.41
	(Dry)	5,393	5.5	29.66	276	793,433	8,186.57	4,278.98	3,907.59
(Total)		11,825		65.04			17,950.35	9,382.35	8,568.00
- Incremental				55.39			15,287.50	7,552.70	7,734.80
KAB. TAPIN									
1. Lok Paikat									
- WO/Project	(Wet)	392	4.0	1.57	276	436,260	432.77	171.01	261.75
	(Dry)	125	4.0	0.50	276	436,260	138.00	54.53	83.47
(Total)				2.07			570.77	225.55	345.22
- W/Project	(Wet)	392	5.5	2.16	276	793,433	595.06	311.03	284.03
	(Dry)	125	5.5	0.69	276	793,433	189.75	99.18	90.57
(Total)		517		2.84			784.81	410.20	374.60
- Incremental				0.78			214.04	184.66	29.38
2. Pampain									
- WO/Project	(Wet)	392	3.5	1.37	276	436,260	378.67	171.01	207.66
	(Dry)	125	3.5	0.44	276	436,260	120.75	54.53	66.22
(Total)				1.81			499.42	225.55	273.88
- W/Project	(Wet)	392	5.5	2.16	276	793,433	595.06	311.03	284.03
	(Dry)	125	5.5	0.69	276	793,433	189.75	99.18	90.57
(Total)		517		2.84			784.81	410.20	374.60
- Incremental				1.03			285.38	184.66	100.73
3. Nupadang									
- WO/Project	(Wet)	253	4.0	1.01	276	436,260	279.31	110.37	168.94
	(Dry)	91	4.0	0.36	276	436,260	100.46	39.70	60.76
(Total)				1.38			379.78	150.07	229.70
- W/Project	(Wet)	253	5.5	1.39	276	793,433	384.05	200.74	183.32
	(Dry)	91	5.5	0.50	276	793,433	138.14	72.20	65.94
(Total)		344		1.89			522.19	272.94	249.25
- Incremental				0.52			142.42	122.87	19.55
4. Tatakan									
- WO/Project	(Wet)	99	3.5	0.35	276	436,260	95.63	43.19	52.44
	(Dry)	34	3.5	0.12	276	436,260	32.84	14.83	18.01
(Total)				0.47			128.48	58.02	70.46
- W/Project	(Wet)	99	5.5	0.54	276	793,433	150.28	78.55	71.73
	(Dry)	34	5.5	0.19	276	793,433	51.61	26.98	24.64
(Total)		133		0.73			201.89	105.53	96.37
- Incremental				0.27			73.42	47.50	25.91
5. Pulau Pinang									
- WO/Project	(Wet)	270	3.5	0.95	276	436,260	260.82	117.79	143.03
	(Dry)	102	3.5	0.36	276	436,260	98.53	44.50	54.03
(Total)				1.30			359.35	162.29	197.06
- W/Project	(Wet)	270	5.5	1.49	276	793,433	409.86	214.23	195.63
	(Dry)	102	5.5	0.56	276	793,433	154.84	80.93	73.91
(Total)		372		2.05			564.70	295.16	269.54
- Incremental				0.74			205.34	132.87	72.48
6. Rampanang									
- WO/Project	(Wet)	146	4.0	0.58	276	436,260	161.18	63.69	97.49
	(Dry)	136	4.0	0.54	276	436,260	150.14	59.33	90.81
(Total)				1.13			311.33	123.03	188.30
- W/Project	(Wet)	146	5.5	0.80	276	793,433	221.63	115.84	105.79
	(Dry)	136	5.5	0.75	276	793,433	206.45	107.91	98.54
(Total)		282		1.55			428.08	223.75	204.33
- Incremental				0.42			116.75	100.72	16.03

Table 2.9 Estimate of Economic Benefit for Irrigation Project (7/7)

Name of Scheme	(Season)	Area Harvested (ha)	Yield (t/ha)	Production ('000 ton)	Unit Price (Rp./kg)	Unit.Prod. Cost (Rp./ha)	Grs.Prod. Value (Milln.Rp.)	Tot.Prod. Cost (Milln.Rp.)	Net Return (Milln.Rp.)
7. Binuang									
- WO/Project	(Wet)	1,106	4.0	4.42	276	436,260	1,221.02	482.50	738.52
	(Dry)	351	4.0	1.40	276	436,260	387.50	153.13	234.38
(Total)				5.83			1,608.53	635.63	972.90
- W/Project	(Wet)	1,106	5.5	6.08	276	793,433	1,678.91	877.54	801.37
	(Dry)	351	5.5	1.93	276	793,433	532.82	278.49	254.32
(Total)		1,457		8.01			2,211.73	1,156.03	1,055.69
- Incremental				2.19			603.20	520.40	82.80
8. Tapin									
- WO/Project	(Wet)	3,228	1.5	4.84	276	284,460	1,336.39	918.24	418.16
	(Dry)	0	1.5	0.00	276	284,460	0.00	0.00	0.00
(Total)				4.84			1,336.39	918.24	418.16
- W/Project	(Wet)	5,328	5.5	29.30	276	793,433	8,087.90	4,227.41	3,860.49
	(Dry)	3,452	5.5	18.99	276	793,433	5,240.14	2,738.93	2,501.21
(Total)		8,780		48.29			13,328.04	6,966.34	6,361.70
- Incremental				43.45			11,991.65	6,048.10	5,943.54
9. Labuhan									
- WO/Project	(Wet)	300	2.5	0.75	276	436,260	207.00	130.88	76.12
	(Dry)	0	2.5	0.00	276	436,260	0.00	0.00	0.00
(Total)				0.75			207.00	130.88	76.12
- W/Project	(Wet)	300	5.5	1.65	276	793,433	455.40	238.03	217.37
	(Dry)	159	5.5	0.87	276	793,433	241.36	126.16	115.21
(Total)		459		2.52			696.76	364.19	332.58
- Incremental				1.77			489.76	233.31	256.45

Table 2.10 Estimate of Economic Benefit for Drainage Project (1/13)

Name of Scheme/ (Season)	Crop	Area Harvested (ha)	Yield (t/ha)	Production ('000 ton)	Unit Price (Rp./kg)	Unit.Prod. Cost (Rp./ha)	Grs.Prod. Value (Milln.Rp.)	Tot.Prod. Cost (Milln.Rp.)	Net Return (Milln.Rp.)
KAB. TAGALONG									
1. S.Gampa									
- WO/Project									
(Wet)	Wet Paddy	0	1.50	0.00	276	284,460	0.00	0.00	0.00
	Palawija	0	0.50	0.00	635	130,200	0.00	0.00	0.00
(Dry)	Wet Paddy	1,338	1.50	2.01	276	284,460	553.93	380.61	173.32
	Palawija	0	0.50	0.00	635	130,200	0.00	0.00	0.00
(Total)	Wet Paddy	1,338		2.01			553.93	380.61	173.32
(Total)	Palawija	0		0.00			0.00	0.00	0.00
- W/P Type D									
(Wet)	Wet Paddy	0	3.00	0.00	276	574,860	0.00	0.00	0.00
	Palawija	0	1.50	0.00	635	450,450	0.00	0.00	0.00
(Dry)	Wet Paddy	1,403	3.00	4.21	276	574,860	1,162.02	806.76	355.26
	Palawija	0	1.50	0.00	635	450,450	0.00	0.00	0.00
(Total)	Wet Paddy	1,403		4.21			1,162.02	806.76	355.26
(Total)	Palawija	0		0.00			0.00	0.00	0.00
- Incremental Benefit									
	Wet Paddy			2.20			608.08	426.15	181.93
	Palawija			0.00			0.00	0.00	0.00
	Total						608.08	426.15	181.93
2. S.Rampang									
- WO/Project									
(Wet)	Wet Paddy	535	1.50	0.80	276	284,460	221.57	152.24	69.33
	Palawija	0	0.50	0.00	635	130,200	0.00	0.00	0.00
(Dry)	Wet Paddy	0	1.50	0.00	276	284,460	0.00	0.00	0.00
	Palawija	0	0.50	0.00	635	130,200	0.00	0.00	0.00
(Total)	Wet Paddy	535		0.80			221.57	152.24	69.33
(Total)	Palawija	0		0.00			0.00	0.00	0.00
- W/P Type B									
(Wet)	Wet Paddy	565	3.00	1.69	276	574,860	467.59	324.63	142.95
	Palawija	0	1.50	0.00	635	450,450	0.00	0.00	0.00
(Dry)	Wet Paddy	0	3.00	0.00	276	574,860	0.00	0.00	0.00
	Palawija	565	1.50	0.85	635	450,450	537.90	254.38	283.52
(Total)	Wet Paddy	565		1.69			467.59	324.63	142.95
(Total)	Palawija	565		0.85			537.90	254.38	283.52
- Incremental Benefit									
	Wet Paddy			0.89			246.02	172.39	73.62
	Palawija			0.85			537.90	254.38	283.52
	Total						783.91	426.77	357.14
3. S.Paliat									
- WO/Project									
(Wet)	Wet Paddy	424	1.50	0.64	276	284,460	175.37	120.50	54.87
	Palawija	0	0.50	0.00	635	130,200	0.00	0.00	0.00
(Dry)	Wet Paddy	0	1.50	0.00	276	284,460	0.00	0.00	0.00
	Palawija	0	0.50	0.00	635	130,200	0.00	0.00	0.00
(Total)	Wet Paddy	424		0.64			175.37	120.50	54.87
(Total)	Palawija	0		0.00			0.00	0.00	0.00
- W/P Type D									
(Wet)	Wet Paddy	444	3.00	1.33	276	574,860	368.03	255.51	112.52
	Palawija	0	1.50	0.00	635	450,450	0.00	0.00	0.00
(Dry)	Wet Paddy	0	3.00	0.00	276	574,860	0.00	0.00	0.00
	Palawija	444	1.50	0.67	635	450,450	423.37	200.22	223.15
(Total)	Wet Paddy	444		1.33			368.03	255.51	112.52
(Total)	Palawija	444		0.67			423.37	200.22	223.15
- Incremental Benefit									
	Wet Paddy			0.70			192.66	135.02	57.64
	Palawija			0.67			423.37	200.22	223.15
	Total						616.03	335.23	280.79
4. S.Pimping									
- WO/Project									
(Wet)	Wet Paddy	134	1.50	0.20	276	284,460	55.39	38.06	17.33
	Palawija	0	0.50	0.00	635	130,200	0.00	0.00	0.00
(Dry)	Wet Paddy	0	1.50	0.00	276	284,460	0.00	0.00	0.00
	Palawija	0	0.50	0.00	635	130,200	0.00	0.00	0.00
(Total)	Wet Paddy	134		0.20			55.39	38.06	17.33
(Total)	Palawija	0		0.00			0.00	0.00	0.00
- W/P Type D									
(Wet)	Wet Paddy	140	3.00	0.42	276	574,860	116.20	80.68	35.53
	Palawija	0	1.50	0.00	635	450,450	0.00	0.00	0.00
(Dry)	Wet Paddy	0	3.00	0.00	276	574,860	0.00	0.00	0.00
	Palawija	140	1.50	0.21	635	450,450	133.67	63.22	70.46
(Total)	Wet Paddy	140		0.42			116.20	80.68	35.53
(Total)	Palawija	140		0.21			133.67	63.22	70.46
- Incremental Benefit									
	Wet Paddy			0.22			60.81	42.62	18.19
	Palawija			0.21			133.67	63.22	70.46
	Total						194.48	105.83	88.65

Table 2.10 *Estimate of Economic Benefit for Drainage Project (2/13)*

Name of Scheme/ (Season)	Crop	Area Harvested (ha)	Yield (t/ha)	Production ('000 ton)	Unit Price (Rp./kg)	Unit.Prod. Cost (Rp./ha)	Grs.Prod. Value (Milln.Rp.)	Tot.Prod. Cost (Milln.Rp.)	Net Return (Milln.Rp.)
5. S.Bintoro									
- WO/Project									
(Wet)	Wet Paddy	89	1.50	0.13	276	284,460	36.93	25.37	11.55
	Palawija	0	0.50	0.00	635	130,200	0.00	0.00	0.00
(Dry)	Wet Paddy	0	1.50	0.00	276	284,460	0.00	0.00	0.00
	Palawija	0	0.50	0.00	635	130,200	0.00	0.00	0.00
(Total)	Wet Paddy	89		0.13			36.93	25.37	11.55
(Total)	Palawija	0		0.00			0.00	0.00	0.00
- W/P Type D									
(Wet)	Wet Paddy	94	3.00	0.28	276	574,860	77.47	53.78	23.68
	Palawija	0	1.50	0.00	635	450,450	0.00	0.00	0.00
(Dry)	Wet Paddy	0	3.00	0.00	276	574,860	0.00	0.00	0.00
	Palawija	94	1.50	0.14	635	450,450	89.12	42.14	46.97
(Total)	Wet Paddy	94		0.28			77.47	53.78	23.68
(Total)	Palawija	94		0.14			89.12	42.14	46.97
- Incremental Benefit									
	Wet Paddy			0.15			40.54	28.41	12.13
	Palawija			0.14			89.12	42.14	46.97
	Total						129.65	70.55	59.10
6. S.Nanti									
- WO/Project									
(Wet)	Wet Paddy	178	1.50	0.27	276	284,460	73.86	50.75	23.11
	Palawija	0	0.50	0.00	635	130,200	0.00	0.00	0.00
(Dry)	Wet Paddy	0	1.50	0.00	276	284,460	0.00	0.00	0.00
	Palawija	0	0.50	0.00	635	130,200	0.00	0.00	0.00
(Total)	Wet Paddy	178		0.27			73.86	50.75	23.11
(Total)	Palawija	0		0.00			0.00	0.00	0.00
- W/P Type D									
(Wet)	Wet Paddy	187	3.00	0.56	276	574,860	154.94	107.57	47.37
	Palawija	0	1.50	0.00	635	450,450	0.00	0.00	0.00
(Dry)	Wet Paddy	0	3.00	0.00	276	574,860	0.00	0.00	0.00
	Palawija	187	1.50	0.28	635	450,450	178.23	84.29	93.94
(Total)	Wet Paddy	187		0.56			154.94	107.57	47.37
(Total)	Palawija	187		0.28			178.23	84.29	93.94
- Incremental Benefit									
	Wet Paddy			0.29			81.08	56.82	24.26
	Palawija			0.28			178.23	84.29	93.94
	Total						259.31	141.11	118.20
7. Tamunti									
- WO/Project									
(Wet)	Wet Paddy	0	1.50	0.00	276	284,460	0.00	0.00	0.00
	Palawija	0	0.50	0.00	635	130,200	0.00	0.00	0.00
(Dry)	Wet Paddy	150	1.50	0.23	276	284,460	62.10	42.67	19.43
	Palawija	0	0.50	0.00	635	130,200	0.00	0.00	0.00
(Total)	Wet Paddy	150		0.23			62.10	42.67	19.43
(Total)	Palawija	0		0.00			0.00	0.00	0.00
- W/P Type E									
(Wet)	Wet Paddy	140	3.00	0.42	276	574,860	116.20	80.68	35.53
	Palawija	0	1.50	0.00	635	450,450	0.00	0.00	0.00
(Dry)	Wet Paddy	0	3.00	0.00	276	574,860	0.00	0.00	0.00
	Palawija	140	1.50	0.21	635	450,450	133.67	63.22	70.46
(Total)	Wet Paddy	140		0.42			116.20	80.68	35.53
(Total)	Palawija	140		0.21			133.67	63.22	70.46
- Incremental Benefit									
	Wet Paddy			0.20			54.10	38.01	16.09
	Palawija			0.21			133.67	63.22	70.46
	Total						187.78	101.22	86.55
8. Bangkiling									
- WO/Project									
(Wet)	Wet Paddy	0	1.50	0.00	276	284,460	0.00	0.00	0.00
	Palawija	0	0.50	0.00	635	130,200	0.00	0.00	0.00
(Dry)	Wet Paddy	400	1.50	0.60	276	284,460	165.60	113.78	51.82
	Palawija	0	0.50	0.00	635	130,200	0.00	0.00	0.00
(Total)	Wet Paddy	400		0.60			165.60	113.78	51.82
(Total)	Palawija	0		0.00			0.00	0.00	0.00
- W/P Type E									
(Wet)	Wet Paddy	374	3.00	1.12	276	574,860	309.87	215.14	94.74
	Palawija	0	1.50	0.00	635	450,450	0.00	0.00	0.00
(Dry)	Wet Paddy	0	3.00	0.00	276	574,860	0.00	0.00	0.00
	Palawija	374	1.50	0.56	635	450,450	356.46	168.58	187.89
(Total)	Wet Paddy	374		1.12			309.87	215.14	94.74
(Total)	Palawija	374		0.56			356.46	168.58	187.89
- Incremental Benefit									
	Wet Paddy			0.52			144.27	101.35	42.92
	Palawija			0.56			356.46	168.58	187.89
	Total						500.73	269.93	230.81

Table 2.10 Estimate of Economic Benefit for Drainage Project (3/13)

Name of Scheme/ (Season)	Crop	Area Harvested (ha)	Yield (t/ha)	Production ('000 ton)	Unit Price (Rp./kg)	Unit.Prod. Cost (Rp./ha)	Grs.Prod. Value (Milln.Rp.)	Toll.Prod. Cost (Milln.Rp.)	Net Return (Milln.Rp.)
9. Pulau Kuu									
- WO/Project									
(Wet)	Wet Paddy	0	1.50	0.00	276	284,460	0.00	0.00	0.00
	Palawija	0	0.50	0.00	635	130,200	0.00	0.00	0.00
(Dry)	Wet Paddy	280	1.50	0.42	276	284,460	115.92	79.65	36.27
	Palawija	0	0.50	0.00	635	130,200	0.00	0.00	0.00
(Total)	Wet Paddy	280		0.42			115.92	79.65	36.27
(Total)	Palawija	0		0.00			0.00	0.00	0.00
- W/P Type E									
(Wet)	Wet Paddy	262	3.00	0.79	276	574,860	216.89	150.58	66.31
	Palawija	0	1.50	0.00	635	450,450	0.00	0.00	0.00
(Dry)	Wet Paddy	0	3.00	0.00	276	574,860	0.00	0.00	0.00
	Palawija	262	1.50	0.39	635	450,450	249.50	117.99	131.51
(Total)	Wet Paddy	262		0.79			216.89	150.58	66.31
(Total)	Palawija	262		0.39			249.50	117.99	131.51
- Incremental Benefit									
	Wet Paddy			0.37			100.97	70.93	30.04
	Palawija			0.39			249.50	117.99	131.51
	Total						350.46	188.92	161.54
KAB. HULU SUNGAI UTARA									
1. S.Pinang Habang									
- WO/Project									
(Wet)	Wet Paddy	1,861	1.50	2.79	276	284,460	770.42	529.36	241.06
	Palawija	0	0.50	0.00	635	130,200	0.00	0.00	0.00
(Dry)	Wet Paddy	0	1.50	0.00	276	284,460	0.00	0.00	0.00
	Palawija	0	0.50	0.00	635	130,200	0.00	0.00	0.00
(Total)	Wet Paddy	1,861		2.79			770.42	529.36	241.06
(Total)	Palawija	0		0.00			0.00	0.00	0.00
- W/P Type D									
(Wet)	Wet Paddy	1,900	3.00	5.70	276	574,860	1,573.27	1,092.28	480.99
	Palawija	0	1.50	0.00	635	450,450	0.00	0.00	0.00
(Dry)	Wet Paddy	0	3.00	0.00	276	574,860	0.00	0.00	0.00
	Palawija	1,900	1.50	2.85	635	450,450	1,809.83	855.89	953.94
(Total)	Wet Paddy	1,900		5.70			1,573.27	1,092.28	480.99
(Total)	Palawija	1,900		2.85			1,809.83	855.89	953.94
- Incremental Benefit									
	Wet Paddy			2.91			802.85	562.92	239.92
	Palawija			2.85			1,809.83	855.89	953.94
	Total						2,612.67	1,418.81	1,193.86
2. R. Batu Mandi									
- WO/Project									
(Wet)	Wet Paddy	1,269	1.50	1.90	276	248,460	525.37	315.30	210.07
	Palawija	0	0.50	0.00	635	130,200	0.00	0.00	0.00
(Dry)	Wet Paddy	0	1.50	0.00	276	248,460	0.00	0.00	0.00
	Palawija	0	0.50	0.00	635	130,200	0.00	0.00	0.00
(Total)	Wet Paddy	1,269	1.50	1.90			525.37	315.30	210.07
(Total)	Palawija	0	0.50	0.00			0.00	0.00	0.00
- W/P Type D									
(Wet)	Wet Paddy	1,295	3.00	3.89	276	248,460	1,072.26	321.76	750.50
	Palawija	0	1.50	0.00	635	130,200	0.00	0.00	0.00
(Dry)	Wet Paddy	0	3.00	0.00	276	248,460	0.00	0.00	0.00
	Palawija	1,295	1.50	1.94	635	130,200	1,233.49	168.61	1,064.88
(Total)	Wet Paddy	1,295	3.00	3.89			1,072.26	321.76	750.50
(Total)	Palawija	1,295	1.50	1.94			1,233.49	168.61	1,064.88
- Incremental Benefit									
	Wet Paddy			1.98			546.89	6.46	540.43
	Palawija			1.94			1,233.49	168.61	1,064.88
	Total						1,780.38	175.07	1,605.31
3. R.Pinang Kara									
- WO/Project									
(Wet)	Wet Paddy	0	1.50	0.00	276	284,460	0.00	0.00	0.00
	Palawija	0	0.50	0.00	635	130,200	0.00	0.00	0.00
(Dry)	Wet Paddy	0	1.50	0.00	276	284,460	0.00	0.00	0.00
	Palawija	0	0.50	0.00	635	130,200	0.00	0.00	0.00
(Total)	Wet Paddy	0		0.00			0.00	0.00	0.00
(Total)	Palawija	0		0.00			0.00	0.00	0.00
- W/P Type A									
(Wet)	Wet Paddy	4,349	1.50	6.52	276	284,460	1,800.42	1,237.07	563.35
	Palawija	0	0.50	0.00	635	130,200	0.00	0.00	0.00
(Dry)	Wet Paddy	0	1.50	0.00	276	284,460	0.00	0.00	0.00
	Palawija	0	0.50	0.00	635	130,200	0.00	0.00	0.00
(Total)	Wet Paddy	4,349		6.52			1,800.42	1,237.07	563.35
(Total)	Palawija	0		0.00			0.00	0.00	0.00
- Incremental Benefit									
	Wet Paddy			6.52			1,800.42	1,237.07	563.35
	Palawija			0.00			0.00	0.00	0.00
	Total						1,800.42	1,237.07	563.35

Table 2.10 Estimate of Economic Benefit for Drainage Project (4/13)

Name of Scheme/ (Season)	Crop	Area Harvested (ha)	Yield (t/ha)	Production ('000 ton)	Unit Price (Rp./kg)	Unit.Prod. Cost (Rp./ha)	Grs.Prod. Value (Milln.Rp.)	Tot.Prod. Cost (Milln.Rp.)	Net Return (Milln.Rp.)
3. R.Pinang Kara									
- W/P Type A									
(Wet)	Wet Paddy	4,349	1.50	6.52	276	284,460	1,800.42	1,237.07	563.35
	Palawija	0	0.50	0.00	635	130,200	0.00	0.00	0.00
(Dry)	Wet Paddy	0	1.50	0.00	276	284,460	0.00	0.00	0.00
	Palawija	0	0.50	0.00	635	130,200	0.00	0.00	0.00
(Total)	Wet Paddy	4,349		6.52			1,800.42	1,237.07	563.35
(Total)	Palawija	0		0.00			0.00	0.00	0.00
- W/P Type D									
(Wet)	Wet Paddy	4,350	3.00	13.05	276	574,860	3,601.60	2,500.50	1,101.10
	Palawija	0	1.50	0.00	635	450,450	0.00	0.00	0.00
(Dry)	Wet Paddy	0	3.00	0.00	276	574,860	0.00	0.00	0.00
	Palawija	4,350	1.50	6.52	635	450,450	4,143.15	1,959.35	2,183.80
(Total)	Wet Paddy	4,350		13.05			3,601.60	2,500.50	1,101.10
(Total)	Palawija	4,350		6.52			4,143.15	1,959.35	2,183.80
- Incremental Benefit									
	Wet Paddy			6.53			1,801.18	1,263.43	537.75
	Palawija			6.52			4,143.15	1,959.35	2,183.80
	Total						5,944.33	3,222.78	2,721.55
KAB. HULU SUNGAI TENGAH									
1. R. Tarus									
- WO/Project									
(Wet)	Wet Paddy	284	1.50	0.43	276	284,460	117.42	80.68	36.74
	Palawija	0	0.50	0.00	635	130,200	0.00	0.00	0.00
(Dry)	Wet Paddy	0	1.50	0.00	276	284,460	0.00	0.00	0.00
	Palawija	0	0.50	0.00	635	130,200	0.00	0.00	0.00
(Total)	Wet Paddy	284		0.43			117.42	80.68	36.74
(Total)	Palawija	0		0.00			0.00	0.00	0.00
- W/P Type D									
(Wet)	Wet Paddy	286	3.00	0.86	276	574,860	236.58	164.25	72.33
	Palawija	0	1.50	0.00	635	450,450	0.00	0.00	0.00
(Dry)	Wet Paddy	0	3.00	0.00	276	574,860	0.00	0.00	0.00
	Palawija	286	1.50	0.43	635	450,450	272.15	128.70	143.45
(Total)	Wet Paddy	286		0.86			236.58	164.25	72.33
(Total)	Palawija	286		0.43			272.15	128.70	143.45
- Incremental Benefit									
	Wet Paddy			0.43			119.16	83.57	35.59
	Palawija			0.43			272.15	128.70	143.45
	Total						391.31	212.27	179.03
2. R. Bangkau									
- WO/Project									
(Wet)	Wet Paddy	0	1.50	0.00	276	284,460	0.00	0.00	0.00
	Palawija	0	0.50	0.00	635	130,200	0.00	0.00	0.00
(Dry)	Wet Paddy	851	1.50	1.28	276	284,460	352.26	242.04	110.22
	Palawija	0	0.50	0.00	635	130,200	0.00	0.00	0.00
(Total)	Wet Paddy	851		1.28			352.26	242.04	110.22
(Total)	Palawija	0		0.00			0.00	0.00	0.00
- W/P Type D									
(Wet)	Wet Paddy	0	3.00	0.00	276	574,860	0.00	0.00	0.00
	Palawija	0	1.50	0.00	635	450,450	0.00	0.00	0.00
(Dry)	Wet Paddy	857	3.00	2.57	276	574,860	709.73	492.75	216.98
	Palawija	0	1.50	0.00	635	450,450	0.00	0.00	0.00
(Total)	Wet Paddy	857		2.57			709.73	492.75	216.98
(Total)	Palawija	0		0.00			0.00	0.00	0.00
- Incremental Benefit									
	Wet Paddy			1.30			357.47	250.71	106.76
	Palawija			0.00			0.00	0.00	0.00
	Total						357.47	250.71	106.76
3. Tg. Jaranih									
- WO/Project									
(Wet)	Wet Paddy	1,137	1.50	1.71	276	248,460	470.72	282.50	188.22
	Palawija	0	0.50	0.00	635	130,200	0.00	0.00	0.00
(Dry)	Wet Paddy	0	1.50	0.00	276	248,460	0.00	0.00	0.00
	Palawija	0	0.50	0.00	635	130,200	0.00	0.00	0.00
(Total)	Wet Paddy	1,137	1.50	1.71			470.72	282.50	188.22
(Total)	Palawija	0	0.50	0.00			0.00	0.00	0.00
- W/P Type B									
(Wet)	Wet Paddy	1,194	3.00	3.58	276	248,460	988.63	296.66	691.97
	Palawija	0	1.50	0.00	635	130,200	0.00	0.00	0.00
(Dry)	Wet Paddy	0	3.00	0.00	276	248,460	0.00	0.00	0.00
	Palawija	1,194	1.50	1.79	635	130,200	1,137.28	155.46	981.83
(Total)	Wet Paddy	1,194	3.00	3.58			988.63	296.66	691.97
(Total)	Palawija	1,194	1.50	1.79			1,137.28	155.46	981.83
- Incremental Benefit									
	Wet Paddy			1.88			517.91	14.16	503.75
	Palawija			1.79			1,137.28	155.46	981.83
	Total						1,655.20	169.62	1,485.58

Table 2.10 Estimate of Economic Benefit for Drainage Project (5/13)

Name of Scheme/ (Season)	Crop	Area Harvested (ha)	Yield (t/ha)	Production ('000 ton)	Unit Price (Rp./kg)	Unit.Prod. Cost (Rp./ha)	Gre.Prod. Value (Milln.Rp.)	Toll.Prod. Cost (Milln.Rp.)	Net Return (Milln.Rp.)
4. Tg. Semanggi Kambat									
- WO/Project									
(Wet)	Wet Paddy	2,514	1.50	3.77	276	248,460	1,040.80	624.63	416.17
	Palawija	0	0.50	0.00	635	130,200	0.00	0.00	0.00
(Dry)	Wet Paddy	0	1.50	0.00	276	248,460	0.00	0.00	0.00
	Palawija	0	0.50	0.00	635	130,200	0.00	0.00	0.00
(Total)	Wet Paddy	2,514	1.50	3.77			1,040.80	624.63	416.17
(Total)	Palawija	0	0.50	0.00			0.00	0.00	0.00
- W/P Type E									
(Wet)	Wet Paddy	2,640	3.00	7.92	276	248,460	2,185.92	655.93	1,529.99
	Palawija	0	1.50	0.00	635	130,200	0.00	0.00	0.00
(Dry)	Wet Paddy	0	3.00	0.00	276	248,460	0.00	0.00	0.00
	Palawija	2,640	1.50	3.96	635	130,200	2,514.60	343.73	2,170.87
(Total)	Wet Paddy	2,640	3.00	7.92			2,185.92	655.93	1,529.99
(Total)	Palawija	2,640	1.50	3.96			2,514.60	343.73	2,170.87
- Incremental Benefit									
	Wet Paddy			4.15			1,145.12	31.31	1,113.82
	Palawija			3.96			2,514.60	343.73	2,170.87
	Total						3,659.72	375.03	3,284.69
5. R. Bangkau Extension									
- WO/Project									
(Wet)	Wet Paddy	0	1.50	0.00	276	284,460	0.00	0.00	0.00
	Palawija	0	0.50	0.00	635	130,200	0.00	0.00	0.00
(Dry)	Wet Paddy	0	1.50	0.00	276	284,460	0.00	0.00	0.00
	Palawija	0	0.50	0.00	635	130,200	0.00	0.00	0.00
(Total)	Wet Paddy	0		0.00			0.00	0.00	0.00
(Total)	Palawija	0		0.00			0.00	0.00	0.00
- W/P Type D									
(Wet)	Wet Paddy	0	3.00	0.00	276	574,860	0.00	0.00	0.00
	Palawija	0	1.50	0.00	635	450,450	0.00	0.00	0.00
(Dry)	Wet Paddy	571	3.00	1.71	276	574,860	473.15	328.50	144.65
	Palawija	0	1.50	0.00	635	450,450	0.00	0.00	0.00
(Total)	Wet Paddy	571		1.71			473.15	328.50	144.65
(Total)	Palawija	0		0.00			0.00	0.00	0.00
- Incremental Benefit									
	Wet Paddy			1.71			473.15	328.50	144.65
	Palawija			0.00			0.00	0.00	0.00
	Total						473.15	328.50	144.65
6. S.Sirung									
- WO/Project									
(Wet)	Wet Paddy	0	1.50	0.00	276	284,460	0.00	0.00	0.00
	Palawija	0	0.50	0.00	635	130,200	0.00	0.00	0.00
(Dry)	Wet Paddy	0	1.50	0.00	276	284,460	0.00	0.00	0.00
	Palawija	0	0.50	0.00	635	130,200	0.00	0.00	0.00
(Total)	Wet Paddy	0		0.00			0.00	0.00	0.00
(Total)	Palawija	0		0.00			0.00	0.00	0.00
- W/P Type D									
(Wet)	Wet Paddy	2,381	3.00	7.14	276	574,860	1,971.47	1,368.74	602.73
	Palawija	0	1.50	0.00	635	450,450	0.00	0.00	0.00
(Dry)	Wet Paddy	0	3.00	0.00	276	574,860	0.00	0.00	0.00
	Palawija	2,381	1.50	3.57	635	450,450	2,267.90	1,072.52	1,195.38
(Total)	Wet Paddy	2,381		7.14			1,971.47	1,368.74	602.73
(Total)	Palawija	2,381		3.57			2,267.90	1,072.52	1,195.38
- Incremental Benefit									
	Wet Paddy			7.14			1,971.47	1,368.74	602.73
	Palawija			3.57			2,267.90	1,072.52	1,195.38
	Total						4,239.37	2,441.26	1,798.11
7. Binjai									
- WO/Project									
(Wet)	Wet Paddy	0	1.50	0.00	276	284,460	0.00	0.00	0.00
	Palawija	0	0.50	0.00	635	130,200	0.00	0.00	0.00
(Dry)	Wet Paddy	0	1.50	0.00	276	284,460	0.00	0.00	0.00
	Palawija	0	0.50	0.00	635	130,200	0.00	0.00	0.00
(Total)	Wet Paddy	0		0.00			0.00	0.00	0.00
(Total)	Palawija	0		0.00			0.00	0.00	0.00
- W/P Type D									
(Wet)	Wet Paddy	746	3.00	2.24	276	574,860	617.36	428.62	188.74
	Palawija	0	1.50	0.00	635	450,450	0.00	0.00	0.00
(Dry)	Wet Paddy	0	3.00	0.00	276	574,860	0.00	0.00	0.00
	Palawija	746	1.50	1.12	635	450,450	710.18	335.86	374.33
(Total)	Wet Paddy	746		2.24			617.36	428.62	188.74
(Total)	Palawija	746		1.12			710.18	335.86	374.33
- Incremental Benefit									
	Wet Paddy			2.24			617.36	428.64	188.72
	Palawija			1.12			710.18	355.86	374.32
	Total						1,327.54	764.50	563.04

Table 2.10 Estimate of Economic Benefit for Drainage Project (6/13)

Name of Scheme/ (Season)	Crop	Area Harvested (ha)	Yield (t/ha)	Production ('000 ton)	Unit Price (Rp./kg)	Unit.Prod. Cost (Rp./ha)	Grs.Prod. Value (Milln.Rp.)	Tot.Prod. Cost (Milln.Rp.)	Net Return (Milln.Rp.)
KAB. HULU SUNGAI SELATAN									
1. Tg.Lungau									
- WO/Project									
(Wet)	Wet Paddy	1,857	1.50	2.79	276	284,460	769.00	528.38	240.62
	Palawija	0	0.50	0.00	635	130,200	0.00	0.00	0.00
(Dry)	Wet Paddy	0	1.50	0.00	276	284,460	0.00	0.00	0.00
	Palawija	0	0.50	0.00	635	130,200	0.00	0.00	0.00
(Total)	Wet Paddy	1,857		2.79			769.00	528.38	240.62
(Total)	Palawija	0		0.00			0.00	0.00	0.00
- W/P Type B									
(Wet)	Wet Paddy	1,912	3.00	5.74	276	574,860	1,583.40	1,099.32	484.08
	Palawija	0	1.50	0.00	635	450,450	0.00	0.00	0.00
(Dry)	Wet Paddy	0	3.00	0.00	276	574,860	0.00	0.00	0.00
	Palawija	1,912	1.50	2.87	635	450,450	1,821.48	861.40	960.08
(Total)	Wet Paddy	1,912		5.74			1,583.40	1,099.32	484.08
(Total)	Palawija	1,912		2.87			1,821.48	861.40	960.08
- Incremental Benefit									
	Wet Paddy			2.95			814.40	570.94	243.47
	Palawija			2.87			1,821.48	861.40	960.08
	Total						2,635.89	1,432.34	1,203.55
2. Tg.Penganbau									
- WO/Project									
(Wet)	Wet Paddy	476	1.50	0.71	276	284,460	197.15	135.46	61.69
	Palawija	0	0.50	0.00	635	130,200	0.00	0.00	0.00
(Dry)	Wet Paddy	0	1.50	0.00	276	284,460	0.00	0.00	0.00
	Palawija	0	0.50	0.00	635	130,200	0.00	0.00	0.00
(Total)	Wet Paddy	476		0.71			197.15	135.46	61.69
(Total)	Palawija	0		0.00			0.00	0.00	0.00
- W/P Type B									
(Wet)	Wet Paddy	500	3.00	1.50	276	574,860	414.00	287.43	126.57
	Palawija	0	1.50	0.00	635	450,450	0.00	0.00	0.00
(Dry)	Wet Paddy	0	3.00	0.00	276	574,860	0.00	0.00	0.00
	Palawija	500	1.50	0.75	635	450,450	476.25	225.23	251.03
(Total)	Wet Paddy	500		1.50			414.00	287.43	126.57
(Total)	Palawija	500		0.75			476.25	225.23	251.03
- Incremental Benefit									
	Wet Paddy			0.79			216.85	151.97	64.88
	Palawija			0.75			476.25	225.23	251.03
	Total						693.10	377.20	315.91
3. S.Kajang									
- WO/Project									
(Wet)	Wet Paddy	1,435	1.50	2.15	276	284,460	594.05	408.17	185.88
	Palawija	0	0.50	0.00	635	130,200	0.00	0.00	0.00
(Dry)	Wet Paddy	0	1.50	0.00	276	284,460	0.00	0.00	0.00
	Palawija	0	0.50	0.00	635	130,200	0.00	0.00	0.00
(Total)	Wet Paddy	1,435		2.15			594.05	408.17	185.88
(Total)	Palawija	0		0.00			0.00	0.00	0.00
- W/P Type D									
(Wet)	Wet Paddy	1,500	3.00	4.50	276	574,860	1,242.00	862.29	379.71
	Palawija	0	1.50	0.00	635	450,450	0.00	0.00	0.00
(Dry)	Wet Paddy	0	3.00	0.00	276	574,860	0.00	0.00	0.00
	Palawija	1,500	1.50	2.25	635	450,450	1,428.75	675.68	753.08
(Total)	Wet Paddy	1,500		4.50			1,242.00	862.29	379.71
(Total)	Palawija	1,500		2.25			1,428.75	675.68	753.08
- Incremental Benefit									
	Wet Paddy			2.35			647.95	454.12	193.83
	Palawija			2.25			1,428.75	675.68	753.08
	Total						2,076.70	1,129.79	946.91
4. S.Tirta Bahalayung									
- WO/Project									
(Wet)	Wet Paddy	556	1.50	0.83	276	284,460	230.12	158.11	72.00
	Palawija	0	0.50	0.00	635	130,200	0.00	0.00	0.00
(Dry)	Wet Paddy	0	1.50	0.00	276	284,460	0.00	0.00	0.00
	Palawija	0	0.50	0.00	635	130,200	0.00	0.00	0.00
(Total)	Wet Paddy	556		0.83			230.12	158.11	72.00
(Total)	Palawija	0		0.00			0.00	0.00	0.00
- W/P Type B									
(Wet)	Wet Paddy	600	3.00	1.80	276	574,860	496.80	344.92	151.88
	Palawija	0	1.50	0.00	635	450,450	0.00	0.00	0.00
(Dry)	Wet Paddy	0	3.00	0.00	276	574,860	0.00	0.00	0.00
	Palawija	600	1.50	0.90	635	450,450	571.50	270.27	301.23
(Total)	Wet Paddy	600		1.80			496.80	344.92	151.88
(Total)	Palawija	600		0.90			571.50	270.27	301.23
- Incremental Benefit									
	Wet Paddy			0.97			266.68	186.80	79.88
	Palawija			0.90			571.50	270.27	301.23
	Total						838.18	457.07	381.11

Table 2.10 Estimate of Economic Benefit for Drainage Project (7/13)

Name of Scheme/ (Season)	Crop	Area Harvested (ha)	Yield (t/ha)	Production ('000 ton)	Unit Price (Rp./kg)	Unit Prod. Cost (Rp./ha)	Grs.Prod. Value (Milln.Rp.)	Totl.Prod. Cost (Milln.Rp.)	Net Return (Milln.Rp.)
5. S.Taniran									
- WO/Project									
(Wet)	Wet Paddy	287	1.50	0.43	276	284,460	118.81	81.63	37.18
	Palawija	0	0.50	0.00	635	130,200	0.00	0.00	0.00
(Dry)	Wet Paddy	0	1.50	0.00	276	284,460	0.00	0.00	0.00
	Palawija	0	0.50	0.00	635	130,200	0.00	0.00	0.00
(Total)	Wet Paddy	287		0.43			118.81	81.63	37.18
(Total)	Palawija	0		0.00			0.00	0.00	0.00
- W/P Type D									
(Wet)	Wet Paddy	300	3.00	0.90	276	574,860	248.40	172.46	75.94
	Palawija	0	1.50	0.00	635	450,450	0.00	0.00	0.00
(Dry)	Wet Paddy	0	3.00	0.00	276	574,860	0.00	0.00	0.00
	Palawija	300	1.50	0.45	635	450,450	285.75	135.14	150.62
(Total)	Wet Paddy	300		0.90			248.40	172.46	75.94
(Total)	Palawija	300		0.45			285.75	135.14	150.62
- Incremental Benefit									
	Wet Paddy			0.47			129.59	90.82	38.77
	Palawija			0.45			285.75	135.14	150.62
	Total						415.34	225.96	189.38
6. R.Negara									
- WO/Project									
(Wet)	Wet Paddy	4,916	1.50	7.37	276	284,460	2,035.26	1,398.43	636.83
	Palawija	0	0.50	0.00	635	130,200	0.00	0.00	0.00
(Dry)	Wet Paddy	0	1.50	0.00	276	284,460	0.00	0.00	0.00
	Palawija	0	0.50	0.00	635	130,200	0.00	0.00	0.00
(Total)	Wet Paddy	4,916		7.37			2,035.26	1,398.43	636.83
(Total)	Palawija	0		0.00			0.00	0.00	0.00
- W/P Type D									
(Wet)	Wet Paddy	4,952	3.00	14.86	276	574,860	4,100.65	2,846.98	1,253.67
	Palawija	0	1.50	0.00	635	450,450	0.00	0.00	0.00
(Dry)	Wet Paddy	0	3.00	0.00	276	574,860	0.00	0.00	0.00
	Palawija	4,952	1.50	7.43	635	450,450	4,717.24	2,230.84	2,486.39
(Total)	Wet Paddy	4,952		14.86			4,100.65	2,846.98	1,253.67
(Total)	Palawija	4,952		7.43			4,717.24	2,230.84	2,486.39
- Incremental Benefit									
	Wet Paddy			7.48			2,065.40	1,448.55	616.84
	Palawija			7.43			4,717.24	2,230.84	2,486.39
	Total						6,782.63	3,679.40	3,103.23
7. S.Balum									
- WO/Project									
(Wet)	Wet Paddy	0	1.50	0.00	276	284,460	0.00	0.00	0.00
	Palawija	0	0.50	0.00	635	130,200	0.00	0.00	0.00
(Dry)	Wet Paddy	553	1.50	0.83	276	284,460	229.02	157.36	71.66
	Palawija	0	0.50	0.00	635	130,200	0.00	0.00	0.00
(Total)	Wet Paddy	553		0.83			229.02	157.36	71.66
(Total)	Palawija	0		0.00			0.00	0.00	0.00
- W/P Type D									
(Wet)	Wet Paddy	0	3.00	0.00	276	574,860	0.00	0.00	0.00
	Palawija	0	1.50	0.00	635	450,450	0.00	0.00	0.00
(Dry)	Wet Paddy	600	3.00	1.80	276	574,860	496.80	344.92	151.88
	Palawija	0	1.50	0.00	635	450,450	0.00	0.00	0.00
(Total)	Wet Paddy	600		1.80			496.80	344.92	151.88
(Total)	Palawija	0		0.00			0.00	0.00	0.00
- Incremental Benefit									
	Wet Paddy			0.97			267.78	187.55	80.22
	Palawija			0.00			0.00	0.00	0.00
	Total						267.78	187.55	80.22
8. R.Ankinang									
- WO/Project									
(Wet)	Wet Paddy	0	1.50	0.00	276	284,460	0.00	0.00	0.00
	Palawija	0	0.50	0.00	635	130,200	0.00	0.00	0.00
(Dry)	Wet Paddy	0	1.50	0.00	276	284,460	0.00	0.00	0.00
	Palawija	0	0.50	0.00	635	130,200	0.00	0.00	0.00
(Total)	Wet Paddy	0		0.00			0.00	0.00	0.00
(Total)	Palawija	0		0.00			0.00	0.00	0.00
- W/P Type D									
(Wet)	Wet Paddy	1,429	3.00	4.29	276	574,860	1,182.88	821.24	361.64
	Palawija	0	1.50	0.00	635	450,450	0.00	0.00	0.00
(Dry)	Wet Paddy	0	3.00	0.00	276	574,860	0.00	0.00	0.00
	Palawija	1,429	1.50	2.14	635	450,450	1,360.74	643.51	717.23
(Total)	Wet Paddy	1,429		4.29			1,182.88	821.24	361.64
(Total)	Palawija	1,429		2.14			1,360.74	643.51	717.23
- Incremental Benefit									
	Wet Paddy			4.29			1,182.88	821.24	361.64
	Palawija			2.14			1,360.74	643.51	717.23
	Total						2,543.62	1,464.76	1,078.86

Table 2.10 Estimate of Economic Benefit for Drainage Project (8/13)

Name of Scheme/ (Season)	Crop	Area Harvested (ha)	Yield (t/ha)	Production ('000 ton)	Unit Price (Rp./kg)	Unit.Prod. Cost (Rp./ha)	Grs.Prod. Value (Milln.Rp.)	Tot.Prod. Cost (Milln.Rp.)	Net Return (Milln.Rp.)
9. R.Garis									
- WO/Project									
(Wet)	Wet Paddy	0	1.50	0.00	276	284,460	0.00	0.00	0.00
	Palawija	0	0.50	0.00	635	130,200	0.00	0.00	0.00
(Dry)	Wet Paddy	0	1.50	0.00	276	284,460	0.00	0.00	0.00
	Palawija	0	0.50	0.00	635	130,200	0.00	0.00	0.00
(Total)	Wet Paddy	0		0.00			0.00	0.00	0.00
(Total)	Palawija	0		0.00			0.00	0.00	0.00
- W/P Type D									
(Wet)	Wet Paddy	1,429	3.00	4.29	276	574,860	1,182.88	821.24	361.64
	Palawija	0	1.50	0.00	635	450,450	0.00	0.00	0.00
(Dry)	Wet Paddy	0	3.00	0.00	276	574,860	0.00	0.00	0.00
	Palawija	1,429	1.50	2.14	635	450,450	1,360.74	643.51	717.23
(Total)	Wet Paddy	1,429		4.29			1,182.88	821.24	361.64
(Total)	Palawija	1,429		2.14			1,360.74	643.51	717.23
- Incremental Benefit									
	Wet Paddy			4.29			1,182.88	821.24	361.64
	Palawija			2.14			1,360.74	643.51	717.23
	Total						2,543.62	1,464.76	1,078.86
10. R.Negara Extension									
- WO/Project									
(Wet)	Wet Paddy	0	1.50	0.00	276	284,460	0.00	0.00	0.00
	Palawija	0	0.50	0.00	635	130,200	0.00	0.00	0.00
(Dry)	Wet Paddy	0	1.50	0.00	276	284,460	0.00	0.00	0.00
	Palawija	0	0.50	0.00	635	130,200	0.00	0.00	0.00
(Total)	Wet Paddy	0		0.00			0.00	0.00	0.00
(Total)	Palawija	0		0.00			0.00	0.00	0.00
- W/P Type D									
(Wet)	Wet Paddy	476	3.00	1.43	276	574,860	394.29	273.75	120.55
	Palawija	0	1.50	0.00	635	450,450	0.00	0.00	0.00
(Dry)	Wet Paddy	0	3.00	0.00	276	574,860	0.00	0.00	0.00
	Palawija	476	1.50	0.71	635	450,450	453.58	214.50	239.08
(Total)	Wet Paddy	476		1.43			394.29	273.75	120.55
(Total)	Palawija	476		0.71			453.58	214.50	239.08
- Incremental Benefit									
	Wet Paddy			1.43			394.29	273.75	120.55
	Palawija			0.71			453.58	214.50	239.08
	Total						847.87	488.25	359.62
11. S.Hadangan									
- WO/Project									
(Wet)	Wet Paddy	0	1.50	0.00	276	284,460	0.00	0.00	0.00
	Palawija	0	0.50	0.00	635	130,200	0.00	0.00	0.00
(Dry)	Wet Paddy	0	1.50	0.00	276	284,460	0.00	0.00	0.00
	Palawija	0	0.50	0.00	635	130,200	0.00	0.00	0.00
(Total)	Wet Paddy	0		0.00			0.00	0.00	0.00
(Total)	Palawija	0		0.00			0.00	0.00	0.00
- W/P Type A									
(Wet)	Wet Paddy	3,587	1.50	5.38	276	284,460	1,485.10	1,020.41	464.69
	Palawija	0	0.50	0.00	635	130,200	0.00	0.00	0.00
(Dry)	Wet Paddy	0	1.50	0.00	276	284,460	0.00	0.00	0.00
	Palawija	0	0.50	0.00	635	130,200	0.00	0.00	0.00
(Total)	Wet Paddy	3,587		5.38			1,485.10	1,020.41	464.69
(Total)	Palawija	0		0.00			0.00	0.00	0.00
- Incremental Benefit									
	Wet Paddy			5.38			1,485.10	1,020.41	464.69
	Palawija			0.00			0.00	0.00	0.00
	Total						1,485.10	1,020.41	464.69
11. S.Hadangan									
- W/P Type A									
(Wet)	Wet Paddy	3,587	1.50	5.38	276	284,460	1,485.10	1,020.41	464.69
	Palawija	0	0.50	0.00	635	130,200	0.00	0.00	0.00
(Dry)	Wet Paddy	0	1.50	0.00	276	284,460	0.00	0.00	0.00
	Palawija	0	0.50	0.00	635	130,200	0.00	0.00	0.00
(Total)	Wet Paddy	3,587		5.38			1,485.10	1,020.41	464.69
(Total)	Palawija	0		0.00			0.00	0.00	0.00
- W/P Type D									
(Wet)	Wet Paddy	3,800	3.00	11.40	276	574,860	3,146.40	2,184.47	961.93
	Palawija	0	1.50	0.00	635	450,450	0.00	0.00	0.00
(Dry)	Wet Paddy	0	3.00	0.00	276	574,860	0.00	0.00	0.00
	Palawija	3,800	1.50	5.70	635	450,450	3,619.50	1,711.71	1,907.79
(Total)	Wet Paddy	3,800		11.40			3,146.40	2,184.47	961.93
(Total)	Palawija	3,800		5.70			3,619.50	1,711.71	1,907.79
- Incremental Benefit									
	Wet Paddy			6.02			1,661.30	1,164.05	497.25
	Palawija			5.70			3,619.50	1,711.71	1,907.79
	Total						5,280.80	2,875.76	2,405.04

Table 2.10 Estimate of Economic Benefit for Drainage Project (9/13)

Name of Scheme/ (Season)	Crop	Area Harvested (ha)	Yield (t/ha)	Production ('000 ton)	Unit Price (Rp./kg)	Unit.Prod. Cost (Rp./ha)	Gra.Prod. Value (Milln.Rp.)	Tot.Prod. Cost (Milln.Rp.)	Net Return (Milln.Rp.)
12. S.Batang Alai									
- WO/Project									
(Wet)	Wet Paddy	0	1.50	0.00	276	284,460	0.00	0.00	0.00
	Palawija	0	0.50	0.00	635	130,200	0.00	0.00	0.00
(Dry)	Wet Paddy	0	1.50	0.00	276	284,460	0.00	0.00	0.00
	Palawija	0	0.50	0.00	635	130,200	0.00	0.00	0.00
(Total)	Wet Paddy	0		0.00			0.00	0.00	0.00
(Total)	Palawija	0		0.00			0.00	0.00	0.00
- W/P Type A									
(Wet)	Wet Paddy	1,416	1.50	2.12	276	284,460	586.22	402.80	183.43
	Palawija	0	0.50	0.00	635	130,200	0.00	0.00	0.00
(Dry)	Wet Paddy	0	1.50	0.00	276	284,460	0.00	0.00	0.00
	Palawija	0	0.50	0.00	635	130,200	0.00	0.00	0.00
(Total)	Wet Paddy	1,416		2.12			586.22	402.80	183.43
(Total)	Palawija	0		0.00			0.00	0.00	0.00
- Incremental Benefit									
	Wet Paddy			2.12			586.22	402.80	183.43
	Palawija			0.00			0.00	0.00	0.00
	Total						586.22	402.80	183.43
12. S.Batang Alai									
- W/P Type A									
(Wet)	Wet Paddy	1,416	1.50	2.12	276	284,460	586.22	402.80	183.43
	Palawija	0	0.50	0.00	635	130,200	0.00	0.00	0.00
(Dry)	Wet Paddy	0	1.50	0.00	276	284,460	0.00	0.00	0.00
	Palawija	0	0.50	0.00	635	130,200	0.00	0.00	0.00
(Total)	Wet Paddy	1,416		2.12			586.22	402.80	183.43
(Total)	Palawija	0		0.00			0.00	0.00	0.00
- W/P Type D									
(Wet)	Wet Paddy	1,500	3.00	4.50	276	574,860	1,242.00	862.29	379.71
	Palawija	0	1.50	0.00	635	450,450	0.00	0.00	0.00
(Dry)	Wet Paddy	0	3.00	0.00	276	574,860	0.00	0.00	0.00
	Palawija	1,500	1.50	2.25	635	450,450	1,428.75	675.68	753.08
(Total)	Wet Paddy	1,500		4.50			1,242.00	862.29	379.71
(Total)	Palawija	1,500		2.25			1,428.75	675.68	753.08
- Incremental Benefit									
	Wet Paddy			2.38			655.78	459.49	196.28
	Palawija			2.25			1,428.75	675.68	753.08
	Total						2,084.53	1,135.17	949.36
13. Tinjau Langit									
- WO/Project									
(Wet)	Wet Paddy	0	1.50	0.00	276	284,460	0.00	0.00	0.00
	Palawija	0	0.50	0.00	635	130,200	0.00	0.00	0.00
(Dry)	Wet Paddy	0	1.50	0.00	276	284,460	0.00	0.00	0.00
	Palawija	0	0.50	0.00	635	130,200	0.00	0.00	0.00
(Total)	Wet Paddy	0		0.00			0.00	0.00	0.00
(Total)	Palawija	0		0.00			0.00	0.00	0.00
- W/P Type A									
(Wet)	Wet Paddy	4,720	1.50	7.08	276	284,460	1,954.08	1,342.65	611.43
	Palawija	0	0.50	0.00	635	130,200	0.00	0.00	0.00
(Dry)	Wet Paddy	0	1.50	0.00	276	284,460	0.00	0.00	0.00
	Palawija	0	0.50	0.00	635	130,200	0.00	0.00	0.00
(Total)	Wet Paddy	4,720		7.08			1,954.08	1,342.65	611.43
(Total)	Palawija	0		0.00			0.00	0.00	0.00
- Incremental Benefit									
	Wet Paddy			7.08			1,954.08	1,342.65	611.43
	Palawija			0.00			0.00	0.00	0.00
	Total						1,954.08	1,342.65	611.43
13. Tinjau Langit									
- W/P Type A									
(Wet)	Wet Paddy	4,720	1.50	7.08	276	284,460	1,954.08	1,342.65	611.43
	Palawija	0	0.50	0.00	635	130,200	0.00	0.00	0.00
(Dry)	Wet Paddy	0	1.50	0.00	276	284,460	0.00	0.00	0.00
	Palawija	0	0.50	0.00	635	130,200	0.00	0.00	0.00
(Total)	Wet Paddy	4,720		7.08			1,954.08	1,342.65	611.43
(Total)	Palawija	0		0.00			0.00	0.00	0.00
- W/P Type D									
(Wet)	Wet Paddy	5,000	3.00	15.00	276	574,860	4,140.00	2,874.30	1,265.70
	Palawija	0	1.50	0.00	635	450,450	0.00	0.00	0.00
(Dry)	Wet Paddy	0	3.00	0.00	276	574,860	0.00	0.00	0.00
	Palawija	5,000	1.50	7.50	635	450,450	4,762.50	2,252.25	2,510.25
(Total)	Wet Paddy	5,000		15.00			4,140.00	2,874.30	1,265.70
(Total)	Palawija	5,000		7.50			4,762.50	2,252.25	2,510.25
- Incremental Benefit									
	Wet Paddy			7.92			2,185.92	1,531.65	654.27
	Palawija			7.50			4,762.50	2,252.25	2,510.25
	Total						6,948.42	3,783.90	3,164.52

Table 2.10 *Estimate of Economic Benefit for Drainage Project (10/13)*

Name of Scheme/ (Season)	Crop	Area Harvested (ha)	Yield (t/ha)	Production (000 ton)	Unit Price (Rp./kg)	Unit.Prod. Cost (Rp./ha)	Grs.Prod. Value (Milln.Rp.)	Tot.Prod. Cost (Milln.Rp.)	Net Return (Milln.Rp.)
KAB. TAPIN									
1. S.Udul									
- WO/Project									
(Wet)	Wet Paddy	944	1.50	1.42	276	284,460	390.82	268.53	122.29
	Palawija	0	0.50	0.00	635	130,200	0.00	0.00	0.00
(Dry)	Wet Paddy	0	1.50	0.00	276	284,460	0.00	0.00	0.00
	Palawija	0	0.50	0.00	635	130,200	0.00	0.00	0.00
(Total)	Wet Paddy	944		1.42			390.82	268.53	122.29
(Total)	Palawija	0		0.00			0.00	0.00	0.00
- W/P Type D									
(Wet)	Wet Paddy	1,000	3.00	3.00	276	574,860	828.00	574.86	253.14
	Palawija	0	1.50	0.00	635	450,450	0.00	0.00	0.00
(Dry)	Wet Paddy	0	3.00	0.00	276	574,860	0.00	0.00	0.00
	Palawija	1,000	1.50	1.50	635	450,450	952.50	450.45	502.05
(Total)	Wet Paddy	1,000		3.00			828.00	574.86	253.14
(Total)	Palawija	1,000		1.50			952.50	450.45	502.05
- Incremental Benefit									
	Wet Paddy			1.58			437.18	306.33	130.85
	Palawija			1.50			952.50	450.45	502.05
	Total						1,389.68	756.78	632.90
2. R.Muning									
- WO/Project									
(Wet)	Wet Paddy	8,000	1.50	12.00	276	284,460	3,312.00	2,275.68	1,036.32
	Palawija	0	0.50	0.00	635	130,200	0.00	0.00	0.00
(Dry)	Wet Paddy	0	1.50	0.00	276	284,460	0.00	0.00	0.00
	Palawija	0	0.50	0.00	635	130,200	0.00	0.00	0.00
(Total)	Wet Paddy	8,000		12.00			3,312.00	2,275.68	1,036.32
(Total)	Palawija	0		0.00			0.00	0.00	0.00
- W/P Type B									
(Wet)	Wet Paddy	8,000	3.00	24.00	276	574,860	6,624.00	4,598.88	2,025.12
	Palawija	0	1.50	0.00	635	450,450	0.00	0.00	0.00
(Dry)	Wet Paddy	0	3.00	0.00	276	574,860	0.00	0.00	0.00
	Palawija	8,000	1.50	12.00	635	450,450	7,620.00	3,603.60	4,016.40
(Total)	Wet Paddy	8,000		24.00			6,624.00	4,598.88	2,025.12
(Total)	Palawija	8,000		12.00			7,620.00	3,603.60	4,016.40
- Incremental Benefit									
	Wet Paddy			12.00			3,312.00	2,323.20	988.80
	Palawija			12.00			7,620.00	3,603.60	4,016.40
	Total						10,932.00	5,926.80	5,005.20
3. S.Garis Hulat									
- WO/Project									
(Wet)	Wet Paddy	952	1.50	1.43	276	284,460	394.13	270.81	123.32
	Palawija	0	0.50	0.00	635	130,200	0.00	0.00	0.00
(Dry)	Wet Paddy	0	1.50	0.00	276	284,460	0.00	0.00	0.00
	Palawija	0	0.50	0.00	635	130,200	0.00	0.00	0.00
(Total)	Wet Paddy	952		1.43			394.13	270.81	123.32
(Total)	Palawija	0		0.00			0.00	0.00	0.00
- W/P Type D									
(Wet)	Wet Paddy	1,000	3.00	3.00	276	574,860	828.00	574.86	253.14
	Palawija	0	1.50	0.00	635	450,450	0.00	0.00	0.00
(Dry)	Wet Paddy	0	3.00	0.00	276	574,860	0.00	0.00	0.00
	Palawija	1,000	1.50	1.50	635	450,450	952.50	450.45	502.05
(Total)	Wet Paddy	1,000		3.00			828.00	574.86	253.14
(Total)	Palawija	1,000		1.50			952.50	450.45	502.05
- Incremental Benefit									
	Wet Paddy			1.57			433.87	304.05	129.82
	Palawija			1.50			952.50	450.45	502.05
	Total						1,386.37	754.50	631.87
4. S.Tapin Gadung									
- WO/Project									
(Wet)	Wet Paddy	960	1.50	1.44	276	284,460	397.44	273.08	124.36
	Palawija	0	0.50	0.00	635	130,200	0.00	0.00	0.00
(Dry)	Wet Paddy	0	1.50	0.00	276	284,460	0.00	0.00	0.00
	Palawija	0	0.50	0.00	635	130,200	0.00	0.00	0.00
(Total)	Wet Paddy	960		1.44			397.44	273.08	124.36
(Total)	Palawija	0		0.00			0.00	0.00	0.00
- W/P Type D									
(Wet)	Wet Paddy	1,000	3.00	3.00	276	574,860	828.00	574.86	253.14
	Palawija	0	1.50	0.00	635	450,450	0.00	0.00	0.00
(Dry)	Wet Paddy	0	3.00	0.00	276	574,860	0.00	0.00	0.00
	Palawija	1,000	1.50	1.50	635	450,450	952.50	450.45	502.05
(Total)	Wet Paddy	1,000		3.00			828.00	574.86	253.14
(Total)	Palawija	1,000		1.50			952.50	450.45	502.05
- Incremental Benefit									
	Wet Paddy			1.56			430.56	301.78	128.78
	Palawija			1.50			952.50	450.45	502.05
	Total						1,383.06	752.23	630.83

Table 2.10 Estimate of Economic Benefit for Drainage Project (11/13)

Name of Scheme/ (Season)	Crop	Area Harvested (ha)	Yield (t/ha)	Production ('000 ton)	Unit Price (Rp./kg)	Unit.Prod. Cost (Rp./ha)	Gra.Prod. Value (Milln.Rp.)	Tott.Prod. Cost (Milln.Rp.)	Net Return (Milln.Rp.)
5. S.Pinang Baharis									
- WO/Project									
(Wet)	Wet Paddy	300	1.50	0.45	276	284,460	124.20	85.34	38.86
	Palawija	0	0.50	0.00	635	130,200	0.00	0.00	0.00
(Dry)	Wet Paddy	0	1.50	0.00	276	284,460	0.00	0.00	0.00
	Palawija	0	0.50	0.00	635	130,200	0.00	0.00	0.00
(Total)	Wet Paddy	300		0.45			124.20	85.34	38.86
(Total)	Palawija	0		0.00			0.00	0.00	0.00
- W/P Type E									
(Wet)	Wet Paddy	300	3.00	0.90	276	574,860	248.40	172.46	75.94
	Palawija	0	1.50	0.00	635	450,450	0.00	0.00	0.00
(Dry)	Wet Paddy	0	3.00	0.00	276	574,860	0.00	0.00	0.00
	Palawija	300	1.50	0.45	635	450,450	285.75	135.14	150.62
(Total)	Wet Paddy	300		0.90			248.40	172.46	75.94
(Total)	Palawija	300		0.45			285.75	135.14	150.62
- Incremental Benefit									
	Wet Paddy			0.45			124.20	87.12	37.08
	Palawija			0.45			285.75	135.14	150.62
	Total						409.95	222.26	187.70
6. R.Belanti									
- W.O./Project									
(Wet)	Wet Paddy	2,619	1.50	3.93	276	284,460	1,084.31	745.03	339.28
	Palawija	0	0.50	0.00	635	130,200	0.00	0.00	0.00
(Dry)	Wet Paddy	0	1.50	0.00	276	284,460	0.00	0.00	0.00
	Palawija	0	0.50	0.00	635	130,200	0.00	0.00	0.00
(Total)	Wet Paddy	2,619		3.93			1,084.31	745.03	339.28
(Total)	Palawija	0		0.00			0.00	0.00	0.00
- W/P Type E									
(Wet)	Wet Paddy	2,750	3.00	8.25	276	574,860	2,277.00	1,580.87	696.14
	Palawija	0	1.50	0.00	635	450,450	0.00	0.00	0.00
(Dry)	Wet Paddy	0	3.00	0.00	276	574,860	0.00	0.00	0.00
	Palawija	2,750	1.50	4.13	635	450,450	2,619.38	1,238.74	1,380.64
(Total)	Wet Paddy	2,750		8.25			2,277.00	1,580.87	696.14
(Total)	Palawija	2,750		4.13			2,619.38	1,238.74	1,380.64
- Incremental Benefit									
	Wet Paddy			4.32			1,192.69	835.84	356.86
	Palawija			4.13			2,619.38	1,238.74	1,380.64
	Total						3,812.07	2,074.57	1,737.49
7. S.Damar									
- WO/Project									
(Wet)	Wet Paddy	1,200	1.50	1.80	276	284,460	496.77	341.33	155.44
	Palawija	0	0.50	0.00	635	130,200	0.00	0.00	0.00
(Dry)	Wet Paddy	0	1.50	0.00	276	284,460	0.00	0.00	0.00
	Palawija	0	0.50	0.00	635	130,200	0.00	0.00	0.00
(Total)	Wet Paddy	1,200		1.80			496.77	341.33	155.44
(Total)	Palawija	0		0.00			0.00	0.00	0.00
- W/P Type D									
(Wet)	Wet Paddy	1,250	3.00	3.75	276	574,860	1,035.00	718.58	316.43
	Palawija	0	1.50	0.00	635	450,450	0.00	0.00	0.00
(Dry)	Wet Paddy	0	3.00	0.00	276	574,860	0.00	0.00	0.00
	Palawija	1,250	1.50	1.88	635	450,450	1,190.63	563.06	627.56
(Total)	Wet Paddy	1,250		3.75			1,035.00	718.58	316.43
(Total)	Palawija	1,250		1.88			1,190.63	563.06	627.56
- Incremental Benefit									
	Wet Paddy			1.95			538.23	377.25	160.99
	Palawija			1.88			1,190.63	563.06	627.56
	Total						1,728.86	940.31	788.55
8. S.Selai									
- WO/Project									
(Wet)	Wet Paddy	0	1.50	0.00	276	284,460	0.00	0.00	0.00
	Palawija	0	0.50	0.00	635	130,200	0.00	0.00	0.00
(Dry)	Wet Paddy	369	1.50	0.55	276	284,460	152.68	104.91	47.77
	Palawija	0	0.50	0.00	635	130,200	0.00	0.00	0.00
(Total)	Wet Paddy	369		0.55			152.68	104.91	47.77
(Total)	Palawija	0		0.00			0.00	0.00	0.00
- W/P Type D									
(Wet)	Wet Paddy	0	3.00	0.00	276	574,860	0.00	0.00	0.00
	Palawija	0	1.50	0.00	635	450,450	0.00	0.00	0.00
(Dry)	Wet Paddy	400	3.00	1.20	276	574,860	331.20	229.94	101.26
	Palawija	0	1.50	0.00	635	450,450	0.00	0.00	0.00
(Total)	Wet Paddy	400		1.20			331.20	229.94	101.26
(Total)	Palawija	0		0.00			0.00	0.00	0.00
- Incremental Benefit									
	Wet Paddy			0.65			178.52	125.04	53.48
	Palawija			0.00			0.00	0.00	0.00
	Total						178.52	125.04	53.48

Table 2.10 Estimate of Economic Benefit for Drainage Project (12/13)

Name of Scheme/ (Season)	Crop	Area Harvested (ha)	Yield (t/ha)	Production ('000 ton)	Unit Price (Rp./kg)	Unit.Prod. Cost (Rp./ha)	Grs.Prod. Value (Milln.Rp.)	Tot.Prod. Cost (Milln.Rp.)	Net Return (Milln.Rp.)
9. S.Masira									
- WO/Project									
(Wet)	Wet Paddy	0	1.50	0.00	276	284,460	0.00	0.00	0.00
	Palawija	0	0.50	0.00	635	130,200	0.00	0.00	0.00
(Dry)	Wet Paddy	138	1.50	0.21	276	284,460	57.21	39.31	17.90
	Palawija	0	0.50	0.00	635	130,200	0.00	0.00	0.00
(Total)	Wet Paddy	138		0.21			57.21	39.31	17.90
(Total)	Palawija	0		0.00			0.00	0.00	0.00
- W/P Type D									
(Wet)	Wet Paddy	0	3.00	0.00	276	574,860	0.00	0.00	0.00
	Palawija	0	1.50	0.00	635	450,450	0.00	0.00	0.00
(Dry)	Wet Paddy	150	3.00	0.45	276	574,860	124.20	86.23	37.97
	Palawija	0	1.50	0.00	635	450,450	0.00	0.00	0.00
(Total)	Wet Paddy	150		0.45			124.20	86.23	37.97
(Total)	Palawija	0		0.00			0.00	0.00	0.00
- Incremental Benefit									
	Wet Paddy			0.24			66.99	46.92	20.07
	Palawija			0.00			0.00	0.00	0.00
	Total						66.99	46.92	20.07
10. Sbh Pintu Air									
- WO/Project									
(Wet)	Wet Paddy	381	1.50	0.57	276	248,460	157.73	94.66	63.07
	Palawija	0	0.50	0.00	635	130,200	0.00	0.00	0.00
(Dry)	Wet Paddy	0	1.50	0.00	276	248,460	0.00	0.00	0.00
	Palawija	0	0.50	0.00	635	130,200	0.00	0.00	0.00
(Total)	Wet Paddy	381	1.50	0.57			157.73	94.66	63.07
(Total)	Palawija	0	0.50	0.00			0.00	0.00	0.00
- W/P Type E									
(Wet)	Wet Paddy	400	3.00	1.20	276	248,460	331.20		
	Palawija	0	1.50	0.00	635	130,200	0.00	0.00	0.00
(Dry)	Wet Paddy	0	3.00	0.00	276	248,460	0.00	0.00	0.00
	Palawija	400	1.50	0.60	635	130,200	381.00	52.08	328.92
(Total)	Wet Paddy	400	3.00	1.20			331.20	99.38	231.82
(Total)	Palawija	400	1.50	0.60			381.00	52.08	328.92
- Incremental Benefit									
	Wet Paddy			0.63			173.47	4.72	168.75
	Palawija			0.60			381.00	52.08	328.92
	Total						554.47	56.80	497.67
11. R.Bahanuu									
- WO/Project									
(Wet)	Wet Paddy	0	1.50	0.00	276	284,460	0.00	0.00	0.00
	Palawija	0	0.50	0.00	635	130,200	0.00	0.00	0.00
(Dry)	Wet Paddy	0	1.50	0.00	276	284,460	0.00	0.00	0.00
	Palawija	0	0.50	0.00	635	130,200	0.00	0.00	0.00
(Total)	Wet Paddy	0		0.00			0.00	0.00	0.00
(Total)	Palawija	0		0.00			0.00	0.00	0.00
- W/P Type D									
(Wet)	Wet Paddy	2,000	3.00	6.00	276	574,860	1,656.00	1,149.72	506.28
	Palawija	0	1.50	0.00	635	450,450	0.00	0.00	0.00
(Dry)	Wet Paddy	0	3.00	0.00	276	574,860	0.00	0.00	0.00
	Palawija	2,000	1.50	3.00	635	450,450	1,905.00	900.90	1,004.10
(Total)	Wet Paddy	2,000		6.00			1,656.00	1,149.72	506.28
(Total)	Palawija	2,000		3.00			1,905.00	900.90	1,004.10
- Incremental Benefit									
	Wet Paddy			6.00			1,656.00	1,149.72	506.28
	Palawija			3.00			1,905.00	900.90	1,004.10
	Total						3,561.00	2,050.62	1,510.38
12. R.Muning Extension									
- WO/Project									
(Wet)	Wet Paddy	0	1.50	0.00	276	284,460	0.00	0.00	0.00
	Palawija	0	0.50	0.00	635	130,200	0.00	0.00	0.00
(Dry)	Wet Paddy	0	1.50	0.00	276	284,460	0.00	0.00	0.00
	Palawija	0	0.50	0.00	635	130,200	0.00	0.00	0.00
(Total)	Wet Paddy	0		0.00			0.00	0.00	0.00
(Total)	Palawija	0		0.00			0.00	0.00	0.00
- W/P Type D									
(Wet)	Wet Paddy	2,000	3.00	6.00	276	574,860	1,656.00	1,149.72	506.28
	Palawija	0	1.50	0.00	635	450,450	0.00	0.00	0.00
(Dry)	Wet Paddy	0	3.00	0.00	276	574,860	0.00	0.00	0.00
	Palawija	0	1.50	0.00	635	450,450	0.00	0.00	0.00
(Total)	Wet Paddy	2,000		6.00			1,656.00	1,149.72	506.28
(Total)	Palawija	0		0.00			0.00	0.00	0.00
- Incremental Benefit									
	Wet Paddy			6.00			1,656.00	1,149.72	506.28
	Palawija			0.00			0.00	0.00	0.00
	Total						1,656.00	1,149.72	506.28

Table 2.10 Estimate of Economic Benefit for Drainage Project (13/13)

Name of Scheme/ (Season)	Crop	Area Harvested (ha)	Yield (t/ha)	Production ('000 ton)	Unit Price (Rp./kg)	Unit.Prod. Cost (Rp./ha)	Gra.Prod. Value (Millin.Rp.)	Toll.Prod. Cost (Millin.Rp.)	Net Return (Millin.Rp.)
12. R.Muning Extension									
- W/Type D									
(Wet)	Wet Paddy	2,000	3.00	6.00	276	574,860	1,656.00	1,149.72	506.28
	Palawija	0	1.50	0.00	635	450,450	0.00	0.00	0.00
(Dry)	Wet Paddy	0	3.00	0.00	276	574,860	0.00	0.00	0.00
	Palawija	0	1.50	0.00	635	450,450	0.00	0.00	0.00
(Total)	Wet Paddy	2,000		6.00			1,656.00	1,149.72	506.28
(Total)	Palawija	0		0.00			0.00	0.00	0.00
- W/P Type E									
(Wet)	Wet Paddy	2,000	3.00	6.00	276	574,860	1,656.00	1,149.72	506.28
	Palawija	0	1.50	0.00	635	450,450	0.00	0.00	0.00
(Dry)	Wet Paddy	0	3.00	0.00	276	574,860	0.00	0.00	0.00
	Palawija	2,000	1.50	3.00	635	450,450	1,905.00	900.90	1,004.10
(Total)	Wet Paddy	2,000		6.00			1,656.00	1,149.72	506.28
(Total)	Palawija	2,000		3.00			1,905.00	900.90	1,004.10
- Incremental Benefit									
	Wet Paddy			0.00			0.00	0.00	0.00
	Palawija			3.00			1,905.00	900.90	1,004.10
	Total						1,905.00	900.90	1,004.10
13. R.Muning 2nd Extension									
- WO/Project									
(Wet)	Wet Paddy	0	1.50	0.00	276	284,460	0.00	0.00	0.00
	Palawija	0	0.50	0.00	635	130,200	0.00	0.00	0.00
(Dry)	Wet Paddy	0	1.50	0.00	276	284,460	0.00	0.00	0.00
	Palawija	0	0.50	0.00	635	130,200	0.00	0.00	0.00
(Total)	Wet Paddy	0		0.00			0.00	0.00	0.00
(Total)	Palawija	0		0.00			0.00	0.00	0.00
- W/P Type D									
(Wet)	Wet Paddy	2,000	3.00	6.00	276	574,860	1,656.00	1,149.72	506.28
	Palawija	0	1.50	0.00	635	450,450	0.00	0.00	0.00
(Dry)	Wet Paddy	0	3.00	0.00	276	574,860	0.00	0.00	0.00
	Palawija	0	1.50	0.00	635	450,450	0.00	0.00	0.00
(Total)	Wet Paddy	2,000		6.00			1,656.00	1,149.72	506.28
(Total)	Palawija	0		0.00			0.00	0.00	0.00
- Incremental Benefit									
	Wet Paddy			6.00			1,656.00	1,149.72	506.28
	Palawija			0.00			0.00	0.00	0.00
	Total						1,656.00	1,149.72	506.28
13. R.Muning 2nd Extension									
- W/Type D									
(Wet)	Wet Paddy	2,000	3.00	6.00	276	574,860	1,656.00	1,149.72	506.28
	Palawija	0	1.50	0.00	635	450,450	0.00	0.00	0.00
(Dry)	Wet Paddy	0	3.00	0.00	276	574,860	0.00	0.00	0.00
	Palawija	0	1.50	0.00	635	450,450	0.00	0.00	0.00
(Total)	Wet Paddy	2,000		6.00			1,656.00	1,149.72	506.28
(Total)	Palawija	0		0.00			0.00	0.00	0.00
- W/Type E									
(Wet)	Wet Paddy	2,000	3.00	6.00	276	574,860	1,656.00	1,149.72	506.28
	Palawija	0	1.50	0.00	635	450,450	0.00	0.00	0.00
(Dry)	Wet Paddy	0	3.00	0.00	276	574,860	0.00	0.00	0.00
	Palawija	2,000	1.50	3.00	635	450,450	1,905.00	900.90	1,004.10
(Total)	Wet Paddy	2,000		6.00			1,656.00	1,149.72	506.28
(Total)	Palawija	2,000		3.00			1,905.00	900.90	1,004.10
- Incremental Benefit									
	Wet Paddy			0.00			0.00	0.00	0.00
	Palawija			3.00			1,905.00	900.90	1,004.10
	Total						1,905.00	900.90	1,004.10

Table 2.11 Estimate of Economic Benefit for Polder Project (1/2)

Name of Scheme	(Season)	Area Harvested (ha)	Yield (t/ha)	Production ('000 ton)	Unit Price (Rp./kg)	Unit Prod. Cost (Rp./ha)	Grs. Prod. Value (Milln.Rp.)	Tott. Prod. Cost (Milln.Rp.)	Net Return (Milln.Rp.)
KAB. TABALONG									
1.Ampukung									
- WO/Project	(Wet)	0	1.5	0.00	276	284,460	0.00	0.00	0.00
	(Dry)	365	1.5	0.55	276	284,460	151.11	103.83	47.28
(Total)				0.55			151.11	103.83	47.28
- W/Project	(Wet)	0	3.0	0.00	276	574,860	0.00	0.00	0.00
	(Dry)	418	3.0	1.25	276	574,860	346.10	240.29	105.81
(Total)				1.25			346.10	240.29	105.81
- Incremental				0.71			194.99	136.46	58.53
2.Tigaron									
- WO/Project	(Wet)	0	1.5	0.00	276	284,460	0.00	0.00	0.00
	(Dry)	115	1.5	0.17	276	284,460	47.61	32.71	14.90
(Total)				0.17			47.61	32.71	14.90
- W/Project	(Wet)	0	3.0	0.00	276	574,860	0.00	0.00	0.00
	(Dry)	144	3.0	0.43	276	574,860	119.23	82.78	36.45
(Total)				0.43			119.23	82.78	36.45
- Incremental				0.26			71.62	50.07	21.56
KAB. HULU SUNGAI UTARA									
1.Padang Gusti									
- WO/Project	(Wet)	0	1.5	0.00	276	284,460	0.00	0.00	0.00
	(Dry)	468	1.5	0.70	276	284,460	193.75	133.13	60.62
(Total)				0.70			193.75	133.13	60.62
- W/Project	(Wet)	0	3.0	0.00	276	574,860	0.00	0.00	0.00
	(Dry)	468	3.0	1.40	276	574,860	387.50	269.03	118.47
(Total)				1.40			387.50	269.03	118.47
- Incremental				0.70			193.75	135.91	57.84
2.Bakar									
- WO/Project	(Wet)	0	1.5	0.00	276	284,460	0.00	0.00	0.00
	(Dry)	2,050	1.5	3.08	276	284,460	848.70	583.14	265.56
(Total)				3.08			848.70	583.14	265.56
- W/Project	(Wet)	0	3.0	0.00	276	574,860	0.00	0.00	0.00
	(Dry)	2,344	3.0	7.03	276	574,860	1,940.83	1,347.47	593.36
(Total)				7.03			1,940.83	1,347.47	593.36
- Incremental				3.96			1,092.13	764.33	327.80
3.Pakacangan									
- WO/Project	(Wet)	0	1.5	0.00	276	284,460	0.00	0.00	0.00
	(Dry)	1,444	1.5	2.17	276	284,460	597.82	410.76	187.06
(Total)				2.17			597.82	410.76	187.06
- W/Project	(Wet)	0	3.0	0.00	276	574,860	0.00	0.00	0.00
	(Dry)	1,694	3.0	5.08	276	574,860	1,402.63	973.81	428.82
(Total)				5.08			1,402.63	973.81	428.82
- Incremental				2.92			804.82	563.05	241.76
4.Kaludan									
- WO/Project	(Wet)	0	1.5	0.00	276	284,460	0.00	0.00	0.00
	(Dry)	1,800	1.5	2.70	276	284,460	745.20	512.03	233.17
(Total)				2.70			745.20	512.03	233.17
- W/Project	(Wet)	0	3.0	0.00	276	574,860	0.00	0.00	0.00
	(Dry)	2,300	3.0	6.90	276	574,860	1,904.40	1,322.18	582.22
(Total)				6.90			1,904.40	1,322.18	582.22
- Incremental				4.20			1,159.20	810.15	349.05
5.Murung Bayun									
- WO/Project	(Wet)	0	1.5	0.00	276	284,460	0.00	0.00	0.00
	(Dry)	1,687	1.5	2.53	276	284,460	698.42	479.88	218.53
(Total)				2.53			698.42	479.88	218.53
- W/Project	(Wet)	0	3.0	0.00	276	574,860	0.00	0.00	0.00
	(Dry)	1,687	3.0	5.06	276	574,860	1,396.84	969.79	427.05
(Total)				5.06			1,396.84	969.79	427.05
- Incremental				2.53			698.42	489.90	208.51

Table 2.11 Estimate of Economic Benefit for Polder Project (2/2)

Name of Scheme	(Season)	Area Harvested (ha)	Yield (t/ha)	Production (000 ton)	Unit Price (Rp./kg)	Unit.Prod. Cost (Rp./ha)	Grs.Prod. Value (Milln.Rp.)	Toll.Prod. Cost (Milln.Rp.)	Net Return (Milln.Rp.)
6.Simpang Empat									
- WO/Project	(Wet)	0	1.5	0.00	276	284,460	0.00	0.00	0.00
	(Dry)	1,274	1.5	1.91	276	284,460	527.44	362.40	165.03
(Total)				1.91			527.44	362.40	165.03
- W/Project	(Wet)	0	3.0	0.00	276	574,860	0.00	0.00	0.00
	(Dry)	1,274	3.0	3.82	276	574,860	1,054.87	732.37	322.50
(Total)				3.82			1,054.87	732.37	322.50
- Incremental				1.91			527.44	369.97	157.47
7.Alabio									
- WO/Project	(Wet)	4,500	2.5	11.25	276	436,260	3,105.00	1,963.17	1,141.83
	(Dry)	0	2.5	0.00	276	436,260	0.00	0.00	0.00
(Total)				11.25			3,105.00	1,963.17	1,141.83
- W/Project	(Wet)	4,500	5.5	24.75	276	793,433	6,831.00	3,570.45	3,260.55
	(Dry)	4,500	5.5	24.75	276	793,433	6,831.00	3,570.45	3,260.55
(Total)				49.50			13,662.00	7,140.89	6,521.11
- Incremental				38.25			10,557.00	5,177.72	5,379.28
8.Lampihong									
- WO/Project	(Wet)	0	1.5	0.00	276	284,460	0.00	0.00	0.00
	(Dry)	1,400	1.5	2.10	276	284,460	579.60	398.24	181.36
(Total)				2.10			579.60	398.24	181.36
- W/Project	(Wet)	0	3.0	0.00	276	574,860	0.00	0.00	0.00
	(Dry)	2,800	3.0	8.40	276	574,860	2,318.40	1,609.61	708.79
(Total)				8.40			2,318.40	1,609.61	708.79
- Incremental				6.30			1,738.80	1,211.36	527.44
KAB. HULU SUNGAI SELATAN									
1.Kalumpang									
- WO/Project	(Wet)	0	1.5	0.00	276	284,460	0.00	0.00	0.00
	(Dry)	600	1.5	0.90	276	284,460	248.40	170.68	77.72
(Total)				0.90			248.40	170.68	77.72
- W/Project	(Wet)	0	3.0	0.00	276	574,860	0.00	0.00	0.00
	(Dry)	600	3.0	1.80	276	574,860	496.80	344.92	151.88
(Total)				1.80			496.80	344.92	151.88
- Incremental				0.90			248.40	174.24	74.16

Table 2.12 Estimate of Economic Benefit for Fishery Project

Name of Scheme	Area Harvested (ha)	Yield (t/ha)	Production ('000 ton)	Unit Price (Rp./kg)	Unit.Prod. Cost (Rp./ha)	Grs.Prod. Value (Milln.Rp.)	Totl.Prod. Cost (Milln.Rp.)	Net Return (Milln.Rp.)
KAB. HULU SUNGAI UTARA								
1.1 Alabio (WO/P to W/P Short-Term)								
- W.O./Project	100	0.1	0.01	1,316	63,700	10.93	6.37	4.56
	0	0.1	0.00	1,316	63,700	0.00	0.00	0.00
(Total)			0.01			10.93	6.37	4.56
- W./Project S.T	100	0.4	0.04	7,840	713,500	313.60	71.35	242.25
	0	0.4	0.00	7,840	713,500	0.00	0.00	0.00
(Total)			0.04			313.60	71.35	242.25
- Incremental			0.03			302.67	64.98	237.69
1.2 Alabio (W/P Short-Term to W/P Medium-Term)								
- W/Project S.T	100	0.4	0.04	7,840	713,500	313.60	71.35	242.25
	900	0.1	0.07	1,316	63,700	98.36	57.33	41.03
(Total)			0.11			411.96	128.68	283.28
- W/Project M.T	1,000	1.2	1.20	7,840	3,634,900	9,408.00	3,634.90	5,773.10
	0	1.2	0.00	7,840	3,634,900	0.00	0.00	0.00
(Total)			1.20			9,408.00	3,634.90	5,773.10
- Incremental			1.09			8,996.04	3,506.22	5,489.82
KAB. TAPIN								
2.Margasari								
- WO/Project	2,000	0.1	0.17	1,316	63,700	218.59	127.40	91.19
(Total)			0.17			218.59	127.40	91.19
- W/Project	2,000	2.4	4.80	7,840	9,324,800	37,632.00	18,649.60	18,982.40
(Total)			4 80			37,632.00	18,649.60	18,982.40
- Incremental			4.80			37,413.41	18,522.20	18,891.21

Table 3.1 *Economic Comparison of Irrigation Project and Selection of Prior Schemes*

Kabupaten/ Name of Scheme	Type of Scheme	Area (ha)	Economic Benefit NPV a/ (Rp.MN)	Economic Cost NPV a/ (Rp.MN)	EIRR (%)	B-C a/ b/ (Rp.MN)	B-C/ha a/ b/ (Rp.MN)	B/C a/	Paddy Increment (tons)	Prior Scheme B/C>1.00 (*)
TABALONG										
1 Jaro c/	Exist	625	0.0	109.4		(109.4)	(0.18)	0.00	0	
2 Jaro Bawah	Exist	200	1,510.1	214.4	50.75	1,295.8	6.48	7.04	1,700	(*)
3 Gumba	Exist	254	625.2	277.7	22.07	347.4	1.37	2.25	1,020	(*)
4 Sungai Kali	New	280	1,024.9	540.7	18.54	484.2	1.73	1.90	1,070	(*)
5 Namun	New	64	291.0	141.6	14.83	149.4	2.33	2.06	310	(*)
6 Kinarum	New	408	3,080.6	903.5	29.24	2,177.1	5.34	3.41	3,470	(*)
7 Milim	New	203	1,532.8	449.6	29.24	1,083.2	5.34	3.41	1,730	(*)
8 Batupulut	New	225	1,410.6	434.1	28.39	976.5	4.34	3.25	1,570	(*)
9 Bilas	New	643	4,855.0	1,424.1	29.24	3,430.9	5.34	3.41	5,470	(*)
10 Banyu Tajun	New	750	5,662.9	1,694.6	28.79	3,968.3	5.29	3.34	6,380	(*)
Sub-Total		3,652							22,720	
HULU SUNGAI UTARA										
1 Paran	Exist	188	462.7	208.4	21.80	254.3	1.35	2.22	750	(*)
2 Tundakan	Exist	233	384.0	279.5	14.10	104.4	0.45	1.37	620	(*)
3 Suapin	Exist	116	192.0	154.6	12.69	37.4	0.32	1.24	310	(*)
4 Lok Batu	Exist	116	192.0	252.1	7.10	(60.1)	(0.52)	0.76	310	
5 Balangan	New	2,172	16,399.8	9,009.4	17.60	7,390.4	3.40	1.82	18,460	(*)
6 Pitap	New	3,734	29,109.0	16,110.6	17.73	12,998.4	3.48	1.81	35,470	(*)
Sub-Total		6,559							55,920	
HULU SUNGAI TENGAH										
1 Taiang	Exist	165	406.1	240.4	16.97	165.7	1.00	1.69	660	(*)
2 Tapuk	Exist	186	457.8	206.7	21.74	251.1	1.35	2.21	740	(*)
3 Tamiyang	Exist	166	406.1	212.7	19.01	193.4	1.17	1.91	660	(*)
4 Baruh Hawang	Exist	160	393.8	139.4	27.07	254.4	1.59	2.83	640	(*)
5 Intangan	Exist	920	487.1	960.3	2.50	(473.2)	(0.51)	0.51	2,040	
6 Kahakan	Exist	633	335.3	590.2	3.50	(255.0)	(0.40)	0.57	1,400	
7 Mangunang	Exist	515	1,267.5	466.4	26.14	801.1	1.56	2.72	2,060	(*)
8 Haruyan Dayak	Exist	1,486	1,066.8	1,298.0	7.59	(231.2)	(0.16)	0.82	4,460	
9 Batang Alai	New	6,223	48,512.4	27,112.6	17.58	21,399.8	3.44	1.79	59,120	(*)
10 Barabai	New	2,278	17,758.5	9,828.9	17.73	7,929.6	3.48	1.81	21,640	(*)
Sub-Total		12,752							93,420	
HULU SUNGAI SELATAN										
1 Telaga Lansat	Exist	1,534	725.4	1,465.1	2.08	(739.7)	(0.48)	0.50	3,030	
2 Tayub	Exist	178	289.2	192.1	15.48	97.1	0.55	1.51	470	(*)
3 Nunungin	Exist	36	57.8	173.8	0.39	(115.9)	(3.22)	0.33	90	
4 Kuangan	Exist	143	231.4	244.7	9.36	(13.3)	(0.09)	0.95	380	
5 Pamujaan	Exist	214	347.0	294.9	11.99	52.1	0.24	1.18	560	(*)
6 Hawalu	Exist	71	115.7	243.9	2.97	(128.3)	(1.81)	0.47	190	
7 Tasi	Exist	107	173.5	339.5	3.56	(165.9)	(1.55)	0.51	280	
8 Jarau	Exist	143	67.5	83.5	7.05	(16.0)	(0.11)	0.81	280	
9 Kayu Habang	New	347	2,260.9	768.7	26.19	1,492.2	4.30	2.94	2,720	(*)
10 Amandit	New	6,432	45,711.23	28,733.42	15.82	16,977.8	2.64	1.59	55,390	(*)
Sub-Total		9,205							63,390	
TAPIN										
1 Lok Paikat	Exist	392	185.6	358.4	2.47	(172.8)	(0.44)	0.52	780	
2 Pampain	Exist	392	636.2	422.7	15.48	213.5	0.54	1.50	1,030	(*)
3 Nuparang	Exist	253	123.5	207.3	3.80	(83.8)	(0.33)	0.60	520	
4 Tatakan	Exist	99	163.7	130.6	12.82	33.1	0.33	1.25	270	(*)
5 Pulau Pinang	Exist	270	457.8	218.1	21.40	239.7	0.89	2.10	740	(*)
6 Rampanang	Exist	146	101.2	137.1	6.40	(35.8)	(0.25)	0.74	420	
7 Binuang	Exist	1,106	523.0	946.2	3.04	(423.2)	(0.38)	0.55	2,190	
8 Tapin	New	5,328	36,780.0	24,175.5	15.19	12,604.6	2.37	1.52	43,450	(*)
9 Lalauhan	New	300	1,612.0	665.0	22.55	947.0	3.16	2.42	1,770	(*)
Sub-Total		8,286							51,170	
Total		40,434							286,620	

Note: a/, At discount rate of 10%
b/, Figures in parentheses indicate minus balance.
c/, Jaro scheme is excluded from the project works, and its works are proposed to be covered by O&M.

Table 3.2 Economic Comparison of Drainage Project and Selection of Prior Schemes

Kabupaten/ Name of Scheme	Type of Scheme	Level of Improvement	Area (ha)	Economic Benefit: NPV a/ (Rp.MN)	Economic Cost NPV a/ (Rp.MN)	EIRR (%)	B-C a/ b/ (Rp.MN)	B-C/h a/ b/ (Rp.MN/ha)	B/C a/	Paddy Increment (tons)	Prior Scheme B/C>1.00 (*)
TABALONG											
1 S.Gumpa	Exist	W/O to T-D	1,500	1,149.2	2,119.6	3.53	(970.4)	(0.65)	0.54	2,200	
2 S.Rampang	Exist	W/O to T-E	600	2,255.8	595.9	32.10	1,660.0	2.77	3.79	890	(*)
3 S.Paliat	Exist	W/O to T-D	475	1,773.6	513.6	29.86	1,260.0	2.65	3.45	700	(*)
4 S.Pimping	Exist	W/O to T-D	150	560.0	213.9	23.93	346.1	2.31	2.62	220	(*)
5 S.Binjro	Exist	W/O to T-D	100	373.3	124.5	26.70	248.9	2.49	3.00	150	(*)
6 S.Nanti	Exist	W/O to T-D	200	1,035.6	251.6	33.65	784.0	3.92	4.12	290	(*)
7 Tamuti	New	W/O to T-E	150	546.7	403.5	13.55	143.2	0.95	1.35	200	(*)
8 Bangkiling	New	W/O to T-E	400	1,457.9	1,007.8	14.40	450.1	1.13	1.45	520	(*)
9 Pulau Kun	New	W/O to T-E	280	1,020.4	995.3	10.27	25.1	0.09	1.03	370	(*)
Sub-Total			3,855							5,540	
HULU SUNGAI UTARA											
1 S.Pinang Habang	Exist	W/O to T-D	1,995	7,540.9	1,973.7	32.34	5,567.2	2.79	3.82	2,910	(*)
2 R.Batu Mandi	Exist	W/O to T-D	1,360	2,651.4	1,439.1	18.59	1,212.3	0.89	1.84	1,980	(*)
3 R.Pinang Kara	Planned	W/O to T-D	4,600	20,748.6	8,397.1	22.74	12,351.5	2.69	2.47	13,050	(*)
Sub-Total			7,955							17,940	
HULU SUNGAI TENGAH											
1 R.Taras	Exist	W/O to T-D	300	1,130.8	512.5	20.80	618.3	2.06	2.21	430	(*)
2 R.Bangkau	Exist	W/O to T-D	900	673.3	1,152.9	4.53	(479.6)	(0.53)	0.58	1,300	
3 Tg.Jaranih	Exist	W/O to T-E	1,194	2,234.7	1,177.7	19.07	1,057.0	0.89	1.90	1,890	(*)
4 Tg.Semangi Kambat	Exist	W/O to T-E	2,640	8,647.7	2,749.2	29.38	5,898.5	2.23	3.15	4,150	(*)
5 R.Bangkau Extension	Planned	W/O to T-D	600	913.7	973.3	9.31	(59.6)	(0.10)	0.94	1,710	
6 S.Sirung	New	W/O to T-D	2,500	11,357.5	4,057.0	25.10	7,300.5	2.92	2.80	7,140	(*)
7 Binjai	New	W/O to T-D	800	3,634.4	1,300.2	25.07	2,334.2	2.92	2.80	2,240	(*)
Sub-Total			8,934							18,850	
HULU SUNGAI SELATAN											
1 Tg.Langkan	Exist	W/O to T-E	2,005	7,602.1	2,041.3	31.69	5,560.7	2.77	3.72	2,950	(*)
2 Tg.Penganbau	Exist	W/O to T-E	500	1,995.4	808.2	22.81	1,187.2	2.37	2.47	790	(*)
3 S.Kajang	Exist	W/O to T-D	1,500	5,981.0	1,389.4	35.50	4,591.6	3.06	4.30	2,350	(*)
4 S.Tirta Bahalayu	Exist	W/O to T-E	600	2,407.2	829.3	26.00	1,578.0	2.63	2.90	970	(*)
5 S.Taniran	Exist	W/O to T-D	300	1,196.2	496.8	22.35	699.4	2.33	2.41	470	(*)
6 R.Negara	Exist	W/O to T-D	5,200	19,601.2	4,680.8	34.76	14,920.4	2.87	4.19	7,480	(*)
7 S.Balum	Exist	W/O to T-D	600	506.7	647.6	7.30	(140.8)	(0.23)	0.78	970	
8 R.Arakinang	Planned	W/O to T-D	1,500	6,814.5	2,496.3	24.60	4,318.2	2.88	2.73	4,290	(*)
9 R.Garis	Planned	W/O to T-D	1,500	6,814.5	2,496.3	24.60	4,318.2	2.88	2.73	4,290	(*)
10 R.Negara Extension	Planned	W/O to T-D	500	2,271.5	760.5	26.42	1,511.0	3.02	2.99	1,430	(*)
11 S.Hadangan	New	W/O to T-D	3,800	18,126.2	3,793.2	27.41	14,333.0	3.77	4.78	11,400	(*)
12 S.Batang Alai	New	W/O to T-D	1,500	7,155.1	2,285.4	27.42	4,869.7	3.25	3.13	4,500	(*)
13 Tinjan Langit	New	W/O to T-D	5,000	23,850.3	7,619.2	27.41	16,231.1	3.25	3.13	15,000	(*)
Sub-Total			24,505							56,890	
TAPIN											
1 S.Udul	Exist	W/O to T-D	1,000	3,997.7	1,047.4	32.30	2,950.2	2.95	3.82	1,580	(*)
2 R.Muning	Exist	W/O to T-E	8,000	31,614.7	8,185.1	32.63	23,429.6	2.93	3.86	12,000	(*)
3 S.Garis Hulu	Exist	W/O to T-D	1,000	3,991.1	992.4	33.66	2,998.7	3.00	4.02	1,570	(*)
4 S.Tapin Gadung	Exist	W/O to T-D	1,000	3,984.6	1,186.0	29.22	2,798.6	2.80	3.36	1,560	(*)
5 S.Pinang Babaris	Exist	W/O to T-E	300	1,185.6	418.6	25.50	766.9	2.56	2.83	450	(*)
6 R.Belarti	Exist	W/O to T-E	2,750	10,974.7	3,094.0	30.50	7,880.7	2.87	3.55	4,320	(*)
7 S.Damar	Exist	W/O to T-D	1,250	4,980.8	1,191.9	34.68	3,788.9	3.05	4.18	1,950	(*)
8 S.Selai	Exist	W/O to T-D	400	337.8	415.1	7.70	(77.3)	(0.19)	0.81	650	
9 S.Masira	Exist	W/O to T-D	150	126.8	225.6	4.23	(98.8)	(0.66)	0.56	240	
10 Sth Pintu Air	Exist	W/O to T-E	400	330.1	460.2	6.43	(130.1)	(0.33)	0.72	630	
11 R.Bahanau	Planned	W/O to T-D	2,000	9,540.1	2,686.8	28.74	6,853.4	3.43	3.55	6,000	(*)
12 R.Muning Extension	Planned	W/O to T-E	2,000	9,540.1	4,225.4	20.97	5,314.7	2.66	2.26	6,000	(*)
13 R.Muning 2nd Extension	New	W/O to T-E	2,000	9,540.1	4,214.8	21.14	5,325.8	2.66	2.26	6,000	(*)
Sub-Total			22,250							42,950	
Total			67,499							142,170	

Note: a/; At discount rate of 10 %
b/; Figures in parenthese indicate minus balance.

Table 3.3 Economic Comparison of Polder Project and Selection of Prior Schemes

Kabupaten/ Name of Scheme	Type of Scheme	Area (ha)	Economic Benefit NPV a/ (Rp.MN)	Economic Cost NPV a/ (Rp.MN)	EIRR (%)	B-C a/ b/ (Rp.MN)	B-C/ha a/ b/ (Rp.MN/ha)	B/C a/	Paddy Increment (tons)	Prior Scheme B/C>1.00 (*)
TABALONG										
1 Ampukung	Exist	418	369.7	300.4	12.89	69.3	0.17	1.23	710	(*)
2 Tigaron	Exist	144	136.2	211.7	5.26	(75.5)	(0.53)	0.64	260	
Sub-Total		562							970	
HULU SUNGAI UTARA										
1 Padang Gusti	Exist	468	365.4	1,168.2	-0.58	(802.8)	(1.71)	0.31	700	
2 Bakar	Exist	2,344	2,070.5	1,533.1	14.37	537.5	0.23	1.35	3,960	(*)
3 Pakacangan	Exist	1,694	1,527.1	1,641.0	9.12	(113.9)	(0.07)	0.93	2,920	
4 Kaludan	Exist	2,300	2,204.7	440.3	195.44	1,764.4	0.77	5.51	4,200	(*)
5 Murung Bayun c/	Exist	1,737	-	-	-	-	-	-	-	
6 Simpang Empat	Exist	1,274	994.6	238.1	104.20	756.6	0.59	4.18	1,910	(*)
7 Alabio	Exist	4,500	33,977.5	6,948.2	41.27	27,029.3	6.01	4.89	38,250	(*)
8 Lampihong	New	2,800	3,331.5	16,235.0	-2.83	(12,903.5)	(4.61)	0.21	6,300	
Sub-Total		15,380							58,240	
HULU SUNGAI SELATAN										
1 Kalumpang	New	600	468.4	5,228.2	-7.57	(4,759.7)	(7.93)	0.09	900	
Total		16,542							60,110	

Note: a/; At discount rate of 10 %
b/; Figures in parentheses indicate minus balance.
c/; No merit from improvement of hardware

Table 3.4 Economic Comparison of Irrigation Project and Ranking of Prior Schemes

Kabupaten/ Name of Scheme	Type of Scheme	Area (ha)	Economic Benefit NPV a/ (Rp.MN)	Economic Cost NPV a/ (Rp.MN)	EIRR (%)	B-C a/ (Rp.MN)	B-C/ha a/ (Rp.MN/ha)	B/C a/	Paddy Increment (tons)	Ranking		
										EIRR	B-C/ha	Rank
TABALONG												
2 Jaro Bawah	Exist	200	1,510.1	214.4	50.75	1,295.8	6.48	7.04	1,700	A	A	1
3 Gumba	Exist	254	625.2	277.7	22.07	347.4	1.37	2.25	1,020	A	C	2
4 Sungai Kati	New	280	1,024.9	540.7	18.54	484.2	1.73	1.90	1,070	B	C	3
5 Namun	New	64	291.0	141.6	19.74	149.4	2.33	2.06	310	B	B	2
6 Kinarum	New	408	3,080.6	903.5	29.24	2,177.1	5.34	3.41	3,470	A	A	1
7 Mihim	New	203	1,532.8	449.6	29.24	1,083.2	5.34	3.41	1,730	A	A	1
8 Batupulur	New	225	1,410.6	434.1	28.39	976.5	4.34	3.25	1,570	A	A	1
9 Bilas	New	643	4,855.0	1,424.1	29.24	3,430.9	5.34	3.41	5,470	A	A	1
10 Banyu Tajun	New	750	5,662.9	1,694.6	28.79	3,968.3	5.29	3.34	6,380	A	A	1
Sub-Total		3,027							22,720			
HULU SUNGAI UTARA												
1 Paran	Exist	188	462.7	208.4	21.80	254.3	1.35	2.22	750	A	C	2
2 Tundakan	Exist	233	384.0	279.5	14.10	104.4	0.45	1.37	620	C	E	4
3 Suapin	Exist	116	192.0	154.6	12.69	37.4	0.32	1.24	310	D	E	5
5 Balangan	New	2,172	16,399.8	9,009.4	17.60	7,390.4	3.40	1.82	18,460	C	A	2
6 Pitap	New	3,734	29,109.0	16,110.6	17.73	12,998.4	3.48	1.81	35,470	C	A	2
Sub-Total		6,443							55,610			
HULU SUNGAI TENGAH												
1 Talang	Exist	165	406.1	240.4	16.97	165.7	1.00	1.69	660	C	D	4
2 Tapuk	Exist	186	457.8	206.7	21.74	251.1	1.35	2.21	740	A	C	2
3 Tamiyang	Exist	166	406.1	212.7	19.01	193.4	1.17	1.91	660	B	C	3
4 Baruh Hawang	Exist	160	393.8	139.4	27.07	254.4	1.59	2.83	640	A	C	2
7 Mangunang	Exist	515	1,267.5	466.4	26.14	801.1	1.56	2.72	2,060	A	C	2
9 Batang Alai	New	6,223	48,512.4	27,112.6	17.58	21,399.8	3.44	1.79	59,120	C	A	2
10 Barabai	New	2,278	17,758.5	9,828.9	17.73	7,929.6	3.48	1.81	21,640	C	A	2
Sub-Total		9,693							85,520			
HULU SUNGAI SELATAN												
2 Tayub	Exist	178	289.2	192.1	15.48	97.1	0.55	1.51	470	C	D	4
5 Pamujaan	Exist	214	347.0	294.9	11.99	52.1	0.24	1.18	560	E	E	5
9 Kayu Habang	New	347	2,260.9	768.7	26.19	1,492.2	4.30	2.94	2,720	A	A	1
10 Amandit	New	6,432	45,711.23	28,733.42	15.82	16,977.8	2.64	1.59	55,390	C	A	2
Sub-Total		7,171							59,140			
TAPIN												
2 Pampain	Exist	392	636.2	422.7	15.48	213.5	0.54	1.50	1,030	C	D	4
4 Tarakan	Exist	99	163.7	130.6	12.82	33.1	0.33	1.25	270	D	E	5
5 Pulau Pinang	Exist	270	457.8	218.1	21.40	239.7	0.89	2.10	740	A	D	3
8 Tapin	New	5,328	36,780.0	24,175.5	15.19	12,604.6	2.37	1.52	43,450	C	B	3
9 Labuhan	New	300	1,612.0	665.0	22.55	947.0	3.16	2.42	1,770	A	A	1
Sub-Total		6,389							47,260			
Total		32,723							270,250			

Note: a/: At discount rate of 10 %

Table 3.5 Economic Comparison of Drainage Project and Ranking of Prior Schemes

Kabupaten/ Name of Scheme	Type of Scheme	Level of Improvement	Area (ha)	Economic Benefit NPV a/ (Rp.MN)	Economic Cost NPV a/ (Rp.MN)	EIRR (%)	B-C a/ (Rp.MN)	B-C/ha a/ (Rp.MN/ha)	B/C a/	Paddy Increment (tons)	Ranking EIRR	Ranking B-C/ha	Ranking Rank
TABALONG													
2 S.Rampang	Exist	W/O to T-E	600	2,255.8	595.9	32.10	1,660.0	2.77	3.79	890	A	A	1
3 S.Paliat	Exist	W/O to T-D	475	1,773.6	513.6	29.86	1,260.0	2.65	3.45	700	A	A	1
4 S.Pimping	Exist	W/O to T-D	150	560.0	213.9	23.93	346.1	2.31	2.62	220	A	B	2
5 S.Bintro	Exist	W/O to T-D	100	373.3	124.5	26.70	248.9	2.49	3.00	150	A	B	2
6 S.Nanti	Exist	W/O to T-D	200	1,035.6	251.6	33.65	784.0	3.92	4.12	290	A	A	1
7 Tamunti	New	W/O to T-E	150	546.7	403.5	13.55	143.2	0.95	1.35	200	D	D	4
8 Bangkiling	New	W/O to T-E	400	1,457.9	1,007.8	14.40	450.1	1.13	1.45	520	C	C	3
9 Pulau Kut	New	W/O to T-E	280	1,020.4	995.3	10.27	25.1	0.09	1.03	370	E	E	5
Sub-Total			2,355							3,340			
HULU SUNGAI UTARA													
1 S.Pinang Habang	Exist	W/O to T-D	1,995	7,540.9	1,973.7	32.34	5,567.2	2.79	3.82	2,910	A	A	1
2 R.Batu Mandi	Exist	W/O to T-D	1,360	2,651.4	1,439.1	18.59	1,212.3	0.89	1.84	1,980	B	D	3
3 R.Pinang Kara	Planned	W/O to T-D	4,600	20,748.6	8,397.1	22.74	12,351.5	2.69	2.47	13,050	A	A	1
Sub-Total			7,955							17,940			
HULU SUNGAI TENGAH													
1 R.Taras	Exist	W/O to T-D	300	1,130.8	512.5	20.80	618.3	2.06	2.21	430	A	B	2
3 Tg.Jaranih	Exist	W/O to T-E	1,194	2,234.7	1,177.7	19.07	1,057.0	0.89	1.90	1,880	B	D	3
4 Tg.Semangi Kambat	Exist	W/O to T-E	2,640	8,647.7	2,749.2	29.38	5,898.5	2.23	3.15	4,150	A	B	2
6 S.Sirung	New	W/O to T-D	2,500	11,357.5	4,057.0	25.10	7,300.5	2.92	2.80	7,140	A	A	1
7 Binjai	New	W/O to T-D	800	3,634.4	1,300.2	25.07	2,334.2	2.92	2.80	2,240	A	A	1
Sub-Total			7,434							15,840			
HULU SUNGAI SELATAN													
1 Tg.Lungkau	Exist	W/O to T-E	2,005	7,602.1	2,041.3	31.69	5,560.7	2.77	3.72	2,950	A	A	1
2 Tg.Penganbau	Exist	W/O to T-E	500	1,995.4	808.2	22.81	1,187.2	2.37	2.47	790	A	B	2
3 S.Kajang	Exist	W/O to T-D	1,500	5,981.0	1,389.4	35.50	4,591.6	3.06	4.30	2,350	A	A	1
4 S.Tirta Babalayu	Exist	W/O to T-E	600	2,407.2	829.3	26.00	1,578.0	2.63	2.90	970	A	A	1
5 S.Taniran	Exist	W/O to T-D	300	1,196.2	496.8	22.35	699.4	2.33	2.41	470	A	B	2
6 R.Negara	Exist	W/O to T-D	5,200	19,601.2	4,680.8	34.76	14,920.4	2.87	4.19	7,480	A	A	1
8 R.Ankinang	Planned	W/O to T-D	1,500	6,814.5	2,496.3	24.60	4,318.2	2.88	2.73	4,290	A	A	1
9 R.Garis	Planned	W/O to T-D	1,500	6,814.5	2,496.3	24.60	4,318.2	2.88	2.73	4,290	A	A	1
10 R.Negara Extension	Planned	W/O to T-D	500	2,271.5	760.5	26.42	1,511.0	3.02	2.99	1,430	A	A	1
11 S.Hadangan	New	W/O to T-D	3,800	18,126.2	3,793.2	27.41	14,333.0	3.77	4.78	11,400	A	A	1
12 S.Batang Alai	New	W/O to T-D	1,500	7,155.1	2,285.4	27.42	4,869.7	3.25	3.13	4,500	A	A	1
13 Tinjau Langit	New	W/O to T-D	5,000	23,850.3	7,619.2	27.41	16,231.1	3.25	3.13	15,000	A	A	1
Sub-Total			23,905							55,920			
TAPIN													
1 S.Udul	Exist	W/O to T-D	1,000	3,997.7	1,047.4	32.30	2,950.2	2.95	3.82	1,580	A	A	1
2 R.Muning	Exist	W/O to T-E	8,000	31,614.7	8,185.1	32.63	23,429.6	2.93	3.86	12,000	A	A	1
3 S.Garis Halat	Exist	W/O to T-D	1,000	3,991.1	992.4	33.66	2,998.7	3.00	4.02	1,570	A	A	1
4 S.Tapin Gadung	Exist	W/O to T-D	1,000	3,984.6	1,186.0	29.22	2,798.6	2.80	3.36	1,560	A	A	1
5 S.Pinang Babaris	Exist	W/O to T-E	300	1,185.6	418.6	25.50	766.9	2.56	2.83	450	A	A	1
6 R.Belanti	Exist	W/O to T-E	2,750	10,974.7	3,094.0	30.50	7,880.7	2.87	3.55	4,320	A	A	1
7 S.Damar	Exist	W/O to T-D	1,250	4,980.8	1,191.9	34.68	3,788.9	2.03	4.18	1,950	A	A	1
11 R.Bahanau	Planned	W/O to T-D	2,000	9,540.1	2,656.8	28.74	6,853.4	3.43	3.55	6,000	A	A	1
12 R.Muning Extension	Planned	W/O to T-E	2,000	9,540.1	4,225.4	20.97	5,314.7	2.66	2.26	6,000	A	A	1
13 R.Muning 2nd Extension	New	W/O to T-E	2,000	9,540.1	4,214.3	21.14	5,325.8	2.66	2.26	6,000	A	A	1
Sub-Total			21,300							41,430			
Total			62,949							154,470			

Note: a/; At discount rate of 10%
T-E : Type E
W/O ; without Project
T-D ; Type D

Table 3.6 Economic Comparison of Polder Project and Ranking of Prior Schemes

Kabupaten/ Name of Scheme	Type of Scheme	Area (ha)	Economic Benefit NPV a/ (Rp.MN)	Economic Cost NPV a/ (Rp.MN)	EIRR (%)	B-C a/ (Rp.MN)	B-C/ha a/ (Rp.MN/ha)	B/C a/	Paddy Increment (tons)	Ranking EIRR	Ranking B-C/ha	Ranking Rank
TABALONG												
1 Ampukung	Exist	418	369.7	300.4	12.89	69.3	0.17	1.23	710	D	E	5
HULU SUNGAI UTARA												
2 Bakar	Exist	2,344	2,070.5	1,533.1	14.37	537.5	0.23	1.35	3,960	C	E	4
4 Kaludan	Exist	2,300	2,204.7	440.3	195.44	1,764.4	0.77	5.51	4,200	A	D	3
6 Simpang Empat	Exist	1,274	994.6	238.1	104.20	756.6	0.59	4.18	1,910	A	D	3
7 Alabio	Exist	4,500	33,977.5	6,948.2	41.27	27,029.3	6.01	4.89	38,250	A	A	1
Sub-Total		10,418							48,320			
Total		10,836							49,030			

Note: a/; At discount rate of 10 %

Table 3.7 Economic Comparison of Fishery Project and Ranking of Prior Schemes

Kabupaten/ Name of Scheme	Type of Scheme	Level of Development	Project Area (ha)	Economic Benefit a/ (Rp.MN)	Economic Cost a/ (Rp.MN)	EIRR (%)	B-C a/ (Rp.MN)	B-C/ha (Rp.MN)	B/C a/	Shrimp Increment ('000 ton)	Ranking EIRR	Ranking B-C/ha	Ranking Rank
HULU SUNGAI UTARA													
1 Alabio	New	W/O to W/P short-term	100	1,068.6	388.9	31.30	679.6	6.80	2.75	0.04	A	A	1
		W/P short-term to medium-term	1,000	24,679.7	6,568.5	39.82	18,111.1	18.11	3.76	1.16	A	A	1
TAPIN													
2 Margasari	New	W/O to W/P long-term	2,000	84,926.1	32,401.4	38.50	52,524.7	26.26	2.62	4.80	A	A	1

Note: a/; Net present values at discount rate of 10%

Table 3.8 List of Alternative Development Plans (1/2)

(Unit: ha)

Case No.	Component of Scheme	Field Condition	Pitap (Kab. H.S.U)					Batang Alai (Kab. H.S.T)					Barabai (Kab. H.S.T)				
			Name of Scheme included in Component	WO/P		W/P		Name of Scheme included in Component	WO/P		W/P		Name of Scheme included in Component	WO/P		W/P	
				Wet	Dry	Wet	Dry		Wet	Dry	Wet	Dry		Wet	Dry	Wet	Dry
1.	New Irrigation Scheme	Irrigated	(Pitap)	0	0	3,734	3,734	(Batang Alai)	0	0	6,223	6,223	(Barabai)	0	0	2,278	2,278
		Rainfed		3,734	0	0	0		6,223	0	0	0		2,278	0	0	0
		Drainage		-	-	-	-		-	-	-	-		-	-	-	-
2.	New Irrigation Scheme + Water Supply to Existing Drainage Scheme	Irrigated		0	0	3,734	4,519		0	0	6,823	6,823		0	0	3,078	3,078
		Rainfed		3,734	0	0	0		6,223	0	0	0		2,278	0	0	0
		Drainage	- Bati Mandi	785	0	785	0	- Tg.Semanggi Kambat	600	0	0	0	- Tg.Jaranih	800	0	0	0
3.	New Irrigation Scheme + Supplemental Water Supply to Existing Irrigation Scheme Located within Commend Area of New Irrigation Scheme	Irrigated	- Suapin, Lok Batu	0	0	4,292	4,444	- Intangan, Kahakan	0	0	6,627	7,442		-	-	-	-
		Rainfed		4,292	0	0	0		6,627	0	0	0		-	-	-	-
		Drainage		-	-	-	-		-	-	-	-		-	-	-	-
4.	New Irrigation Scheme + Water Source Conversion of Existing Irrigation Scheme Located within Command Area of New Irrigation Project	Irrigated		-	-	-	-	- Intangan, Kahakan	815	0	7,442	7,442		-	-	-	-
		Rainfed		-	-	-	-		6,627	0	0	0		-	-	-	-
		Drainage		-	-	-	-		-	-	-	-		-	-	-	-
6.	Comlex (Case 1 + 2 + 4)	Irrigated	- Suapin, Lok Batu	232	80	4,524	5,309	- Intangan, Kahakan	1,553	738	8,780	8,780		-	-	-	-
		Rainfed		4,292	0	0	0		6,627	0	0	0		-	-	-	-
		Drainage	- Bati Mandi	785	0	785	0	- Tg.Semanggi Kambat	600	0	0	0		-	-	-	-

Table 3.8 List of Alternative Development Plans (2/2)

(Unit: ha)

Case No.	Component of Scheme	Field Condition	Amandit (Kab. H.S.S) Name of Scheme included in Component	WO/P Wet	WO/P Dry	W/P Wet	W/P Dry	Tapin (Kab. Tapin) Name of Scheme included in Component	WO/P Wet	WO/P Dry	W/P Wet	W/P Dry
1.	New Irrigation Scheme	Irrigated	(Amandit)	0	0	6,432	5,393	(Tapin)	0	0	5,328	3,452
		Rainfed		6,432	0	0	0		3,228	0	0	0
		Drainage		-	-	-	-		-	-	-	-
		Bush		-	-	-	-		2,100	2,100	0	0
2.	New Irrigation Scheme + Water Supply to Existing Drainage Scheme	Irrigated		-	-	-	-		0	0	5,728	3,852
		Rainfed		-	-	-	-		3,228	0	0	0
		Drainage		-	-	-	-	- Pintu Air	400	0	0	0
		Bush		-	-	-	-		2,100	2,100	0	0
3.	New Irrigation Scheme + Supplemental Water Supply to Existing Irrigation Scheme Located within Command Area of New Irrigation Scheme	Irrigated	- Tayub, Nunungin, Kuangan, Hawatu, Taal	0	0	7,042	5,393	- Pampain	0	0	5,818	3,452
		Rainfed		7,042	0	0	0		3,718	0	0	0
		Drainage		-	-	-	-		-	-	-	-
		Bush		-	-	-	-		2,100	2,100	0	0
4.	New Irrigation Scheme + Water Source Conversion of Existing Irrigation Scheme Located within Command Area of New Irrigation Scheme	Irrigated	- Tayub, Nunungin, Kuangan, Hawatu, Taal	535	0	7,577	5,393	- Pampain, Labuhan	392	0	6,510	3,452
		Rainfed		7,042	0	0	0		4,018	0	0	0
		Drainage		-	-	-	-		-	-	-	-
		Bush		-	-	-	-		2,100	2,100	0	0
5.	New Irrigation Scheme + Water Source Conversion of Existing Irrigation Scheme Located within and around Command Area of New Irrigation Scheme	Irrigated	- Tayub, Nunungin, Kuangan, Hawatu, Taal, T.Langsat, Pamujaan, Jarau, Kayu Habang	2,426	0	11,399	5,393	- Pampain, Labuhan, Loh Paikat, Nupadang, P.Pinang, Rampanang, Binuang	2,559	964	9,039	3,452
		Rainfed		8,973	0	0	0		4,380	0	0	0
		Drainage		-	-	-	-		-	-	-	-
		Bush		-	-	-	-		2,100	2,100	0	0
6.	Comlex (Case 1 + 2 + 4)	Irrigated	Same as Case 4					- Pampain, Labuhan	392	0	6,910	3,852
		Rainfed							4,018	0	0	0
		Drainage						- Pintu Air	400	0	0	0
		Bush							2,100	2,100	0	0
7.	Dam + Case 4	Irrigated		535	0	7,577	7,577		392	0	6,510	6,510
		Rainfed		7,042	0	0	0		4,018	0	0	0
		Drainage		-	-	-	-		-	-	-	-
		Bush		-	-	-	-		2,100	2,100	0	0

Table 3.9 Economic Comparison of Alternative Development Plans of Irrigation Schemes and Ranking

Alternative/ Name of Scheme	Case No.	Area (ha)	Economic Benefit NPV a/ (Rp.MN)	Economic Cost NPV a/ (Rp.MN)	EIRR (%)	B-C a/ b/ (Rp.MN)	B-C/ha a/ b/ (Rp.MN/ha)	B/C a/	Paddy Increment (tons)	Ranking EIRR	Ranking B-C/ha	Ranking Rank
HULU SUNGAI UTARA												
6 Pitap	Case 1	3,734	29,109.0	16,110.6	17.73	12,998.4	3.48	1.81	35,470	C	A	2
	Case 2	4,519	33,002.3	19,410.4	16.80	13,591.9	3.01	1.70	40,970	C	A	2
	Case 3	4,444	34,107.2	20,946.0	16.16	13,161.1	2.96	1.63	41,610	C	A	2
	Case 6	5,309	38,349.1	25,933.6	14.80	12,415.4	2.34	1.48	47,730	C	A	2
HULU SUNGAI TENGAH												
9 Batang Alai	Case 1	6,223	48,512.4	27,112.6	17.58	21,399.8	3.44	1.79	59,120	C	A	2
	Case 2	6,823	53,189.8	29,768.5	17.58	23,421.3	3.43	1.79	64,820	C	A	2
	Case 3	7,442	55,137.2	32,815.6	16.62	22,321.6	3.00	1.68	67,440	C	A	2
	Case 4	7,441	56,047.8	35,934.2	15.55	20,113.6	2.70	1.56	69,070	C	A	2
	Case 6	8,780	62,374.5	38,116.4	16.28	24,258.1	2.76	1.64	77,720	C	A	2
10 Barabai	Case 1	2,278	17,758.5	9,828.9	17.73	7,929.6	3.48	1.81	21,640	C	A	2
	Case 2	3,078	23,995.1	15,598.9	15.37	8,396.1	2.73	1.54	29,240	C	A	2
HULU SUNGAI SELATAN												
10 Amandit	Case 1	6,432	45,711.2	28,733.4	15.82	16,977.8	2.64	1.59	55,390	C	A	2
	Case 3	7,042	47,865.4	31,089.8	15.35	16,775.7	2.38	1.54	57,830	C	A	2
	Case 4	7,577	48,463.2	33,157.1	14.64	15,306.1	2.02	1.46	58,900	C	A	2
	Case 5	11,399	57,395.5	57,139.6	10.05	255.9	0.02	1.00	70,410	E	E	5
	Case 6	7,577	47,928.3	33,535.1	14.34	14,393.2	1.90	1.43	58,300	C	C	3
	Case 7	7,577	57,776.2	53,181.6	10.93	4,594.6	0.61	1.09	70,910	E	D	5
TAPIN												
8 Tapin	Case 1	5,328	36,780.0	24,175.5	15.19	12,604.6	2.37	1.52	43,450	C	B	3
	Case 2	5,728	38,192.6	25,692.9	14.85	12,499.7	2.18	1.49	45,650	C	B	3
	Case 3	5,818	35,150.5	26,040.2	14.78	9,110.3	1.57	1.48	45,410	C	C	3
	Case 4	6,510	40,007.9	28,713.9	13.99	11,294.0	1.73	1.39	47,390	D	C	4
	Case 5	9,039	40,674.1	62,573.0	5.76	(21,898.9)	(2.42)	0.65	49,800	E	E	5
	Case 6	6,910	41,420.5	30,828.3	13.52	10,592.2	1.53	1.34	48,990	D	C	4
	Case 7	6,510	52,575.7	69,095.5	7.23	(16,519.8)	(2.54)	0.76	64,210	E	E	5

Note: a/; At discount rate of 10%
b/; Figures in parentheses indicate minus balance.

Table 3.10 Economic Comparison of Combination Development of Drainage and Irrigation Schemes and Ranking

Kabupaten/ Name of Scheme	Area (ha)	Economic Benefit NPV a/ (Rp.MN)	Economic Cost NPV a/ (Rp.MN)	EIRR (%)	B-C a/ b/ (Rp.MN)	B-C/ha a/ b/ (Rp.MN/ha)	B/C a/	Paddy Increment (tons)	Ranking EIRR	Ranking B-C/ha	Ranking Rank
HULU SUNGAI UTARA											
2 R.Batu Mandi											
- Drainage Scheme	1,360	2,651.4	1,439.1	18.59	1,212.3	0.89	1.84	1,980	B	D	3
- Irrigation Scheme	785	3,592.7	3,256.2	11.09	336.4	0.43	1.10	4,320	E	E	5
Total	2,145	6,244.0	4,695.3	13.43	1,548.8	0.72	1.33	6,300	D	D	4
HULU SUNGAI TENGAH											
3 Tg.Jaranih											
- Drainage Scheme	1,194	2,234.7	1,177.7	19.07	1,057.0	0.89	1.90	1,890	B	D	3
- Irrigation Scheme	800	7,322.6	3,657.2	19.30	3,665.4	4.58	2.00	8,800	B	A	2
Total	1,994	9,557.4	4,835.0	19.25	4,722.4	2.37	1.98	10,690	B	B	2
4 Tg. Semangi Kambat											
- Drainage Scheme	2,640	8,647.7	2,749.2	29.38	5,898.5	2.23	3.15	4,180	A	B	2
- Irrigation Scheme	600	5,492.0	3,285.1	16.31	2,206.9	3.68	1.67	6,600	C	A	2
Total	3,240	14,139.7	6,034.3	22.24	8,105.4	2.50	2.34	10,780	A	B	2
TAPIN											
10 Sbh Pintu Air											
- Drainage Scheme	400	330.1	460.2	6.43	(130.1)	(0.33)	0.72	630	-	-	-
- Irrigation Scheme	400	3,661.3	2,388.0	15.25	1,273.3	3.18	1.53	4,400	C	A	2
Total	800	3,991.4	2,848.2	14.07	1,143.2	1.43	1.40	5,030	C	C	3
Grand-total	8,179							32,800			

Note: a/; At discount rate of 10%
b/; Figures in parenthese indicate minus balance.

Table 3.11 Economic Comparison of Step-wise Development for Drainage Schemes and Ranking

Kabupaten/ Name of Scheme	Type of Scheme	Level of Improvement	Area (ha)	Economic Benefit NPV a/ (Rp.MN)	Economic Cost NPV a/ (Rp.MN)	EIRR (%)	B-C a/ (Rp.MN)	B-C/ha a/ (Rp.MN/ha)	B/C a/	Paddy Increment (tons)	Ranking EIRR	Ranking B-C/ha	Ranking Rank
HULU SUNGAI UTARA													
3 R.Pinang Kara	Planned	W/O to T-A	4,600	3,558.3	3,491.7	10.23	66.6	0.01	1.02	13,050	E	E	5
	-do-	T-A to T-D	4,600	17,190.3	5,416.2	28.02	11,774.1	2.56	3.17	0	A	A	1
	-do-	W/O to T-D	4,600	20,748.6	8,397.1	22.74	12,351.5	2.69	2.47	13,050	A	A	1
HULU SUNGAI SELATAN													
11 S.Hadangan	New	W/O to T-A	3,800	2,935.1	2,094.4	14.67	840.7	0.22	1.40	10,760	C	E	4
	-do-	T-A to T-D	3,800	15,191.1	4,117.8	31.45	11,073.4	2.91	3.69	640	A	A	1
	-do-	W/O to T-D	3,800	18,126.2	3,793.2	27.41	14,333.0	3.77	4.78	11,400	A	A	1
12 S.Batang Alai	New	W/O to T-A	1,500	1,158.6	827.1	14.66	331.5	0.22	1.40	4,250	C	E	4
	-do-	T-A to T-D	1,500	5,996.5	1,524.9	31.46	4,371.7	2.91	3.69	250	A	A	1
	-do-	W/O to T-D	1,500	7,155.1	2,285.4	27.42	4,869.7	3.25	3.13	4,500	A	A	1
13 Tinjau Langit	New	W/O to T-A	5,000	3,862.0	2,756.2	14.67	1,105.8	0.22	1.40	14,160	C	E	4
	-do-	T-A TO T-D	5,000	19,988.3	5,418.2	31.45	14,570.1	2.91	3.69	840	A	A	1
	-do-	W/P 2 to T-D	5,000	23,850.3	7,619.2	27.41	16,231.1	3.25	3.13	15,000	A	A	1
TAPIN													
12 R.Muning Extension	Planned	W/O to T-D	2,000	3,197.9	2,868.8	11.26	329.1	0.16	1.11	6,000	E	E	5
	-do-	T-D to T-E	2,000	6,342.3	1,608.8	33.69	4,733.5	2.37	3.94	0	A	A	1
	-do-	W/O to T-E	2,000	9,540.1	4,225.4	20.97	5,314.7	2.66	2.26	6,000	A	A	1
13 R.Muning 2nd Extension	New	W/O to T-D	2,000	3,197.9	2,827.6	11.43	370.2	0.19	1.13	6,000	E	E	5
	-do-	T-D to T-E	2,000	6,342.3	1,608.8	33.69	4,733.5	2.37	3.94	0	A	B	2
	-do-	W/O to T-E	2,000	9,540.1	4,214.3	21.14	5,325.8	2.66	2.26	6,000	A	A	1

Note: a/; At discount rate of 10 % W/O ; without Project
T-A ; Type A T-D ; Type D T-E ; Type E

Table 4.2 List of Irrigation Schemes with Construction Cost (Financial Prices) and Paddy Increment by Kabupaten and Ranking

	Tabalong				Hulu Sungai Utara				Hulu Sungai Tengah				Hulu Sungai Selatan				Tapin				Total			
	Scheme	Area (ha)	Const. Cost (Rp.MN)	Paddy Incre. (tons)	Scheme	Area (ha)	Const. Cost (Rp.MN)	Paddy Incre. (tons)	Scheme	Area (ha)	Const. Cost (Rp.MN)	Paddy Incre. (tons)	Scheme	Area (ha)	Const. Cost (Rp.MN)	Paddy Incre. (tons)	Scheme	Area (ha)	Const. Cost (Rp.MN)	Paddy Incre. (tons)		Area (ha)	Const. Cost (Rp.MN)	Paddy Incre. (tons)	
RANK 1	2 Jaro Bawah	200	620	1,700	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0		200	620	1,700	
- Exist	Sub-total	200	620	1,700	Sub-total	0	0	0	Sub-total	0	0	0	Sub-total	0	0	0	Sub-total	0	0	0	ST	200	620	1,700	
RANK 2	3 Gumba	254	361	1,020	1 Paran	188	358	750	2 Tapuk	186	270	740	-	0	0	0	-	0	0	0		628	989	2,510	
- Exist	-	0	0	0	-	0	0	0	4 B. Hawang	160	237	640	-	0	0	0	-	0	0	0		160	237	640	
	-	0	0	0	-	0	0	0	7 Mangunang	515	586	2,060	-	0	0	0	-	0	0	0		515	586	2,060	
	Sub-total	254	361	1,020	Sub-total	188	358	750	Sub-total	861	1,093	3,440	Sub-total	0	0	0	Sub-total	0	0	0	ST	1,303	1,812	5,210	
RANK 1	6 Kinarum	408	1,325	3,470	-	0	0	0	-	0	0	0	9 K. Habang	347	1,128	2,720	9 Labuhen	300	975	1,770		1,055	3,428	7,960	
- Planned	7 Mbain	203	659	1,730	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0		203	659	1,730	
+ New	8 Batupalar	225	634	1,570	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0		225	634	1,570	
	9 Bilas	643	2,089	5,470	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0		643	2,089	5,470	
	10 Bany.Tajun	750	2,487	6,380	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0		750	2,487	6,380	
	Sub-total	2,229	7,194	18,620	Sub-total	0	0	0	Sub-total	0	0	0	Sub-total	347	1,128	2,720	Sub-total	300	975	1,770	ST	2,876	9,297	23,110	
RANK 2	5 Nateun	64	207	310	5 Bolangan	2,172	13,388	18,460	9 Bg. Alai	6,223	38,754	59,120	10 Amandit	6,432	41,387	55,390	-	0	0	0		14,891	93,736	133,280	
- Planned	-	0	0	0	6 Pitap	3,734	23,015	35,470	10 Batabai	2,278	14,041	21,640	-	0	0	0	-	0	0	0		6,012	37,056	57,110	
+ New	Sub-total	64	207	310	Sub-total	5,906	36,403	53,930	Sub-total	8,501	52,795	80,760	Sub-total	6,432	41,387	55,390	Sub-total	0	0	0	ST	20,903	130,792	190,390	
RANK 3	-	0	0	0	-	0	0	0	3 Terniyang	166	283	660	-	0	0	0	5 Pul.Pinang	270	267	740		436	550	1,400	
- Exist	Sub-total	0	0	0	Sub-total	0	0	0	Sub-total	166	283	660	Sub-total	0	0	0	Sub-total	270	267	740	ST	436	550	1,400	
RANK 3																									
- Planned	4 Sungai Kuti	280	790	1,070	-	0	0	0	-	0	0	0	-	0	0	0	8 Tapin	5,328	34,960	43,450		5,608	35,750	44,520	
+ New	Sub-total	280	790	1,070	Sub-total	0	0	0	Sub-total	0	0	0	Sub-total	0	0	0	Sub-total	5,328	34,960	43,450	ST	5,608	35,750	44,520	
RANK 4 and	-	0	0	0	2 Tandakan	233	369	620	1 Talang	165	326	660	2 Tayib	178	250	470	2 Pamosin	392	549	1,030		968	1,494	2,780	
RANK 5	-	0	0	0	3 Sinapin	116	207	310	-	0	0	0	5 Paruyasan	214	399	560	4 Tatakan	99	174	270		429	780	1,140	
	Sub-total	0	0	0	Sub-total	349	576	930	Sub-total	165	326	660	Sub-total	392	649	1,030	Sub-total	491	723	1,300	ST	1,397	2,274	3,920	
	Total	3,027	9,172	22,720	Total	6,443	37,337	55,610	Total	9,693	54,497	85,520	Total	7,171	43,164	59,140	Total	6,389	56,925	47,260		32,723	181,095	270,250	

Table 4.2 List of Drainage Schemes with Construction Cost (Financial Prices) and Paddy Increment by Kabupaten and Ranking

	Tabalong				Hulu Sungai Utara				Hulu Sungai Tengah				Hulu Sungai Selatan				Tapin				Total			
	Scheme	Area (ha)	Const. Cost (Rp.MN)	Paddy Incre. (tons)	Scheme	Area (ha)	Const. Cost (Rp.MN)	Paddy Incre. (tons)	Scheme	Area (ha)	Const. Cost (Rp.MN)	Paddy Incre. (tons)	Scheme	Area (ha)	Const. Cost (Rp.MN)	Paddy Incre. (tons)	Scheme	Area (ha)	Const. Cost (Rp.MN)	Paddy Incre. (tons)		Area (ha)	Const. Cost (Rp.MN)	Paddy Incre. (tons)
RANK 1	2 S.Rampang	600	836	890	1 S.P.Habang	1,995	3,191	2,910	-	0	0	0	1 Tg.Lungkan	2,005	2,995	2,950	1 S.Udul	1,000	1,412	1,580		5,600	8,434	8,330
- Exist	3 S.Paliat	475	737	700	-	0	0	0	-	0	0	0	3 S.Kajang	1,500	1,844	2,350	2 R.Muning	6,000	11,656	12,000		9,975	14,237	15,050
	6 S.Nasi	200	370	290	-	0	0	0	-	0	0	0	4 S.Tirt.Bahala	600	1,245	970	3 S.Gio.Halat	1,000	1,468	1,570		1,800	3,086	2,830
	-	0	0	0	-	0	0	0	-	0	0	0	6 R.Negara	5,200	6,299	7,480	4 S.T.Gadung	1,000	1,739	1,560		6,200	8,038	9,040
	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	5 S.P.Babaris	300	591	450		300	591	450
	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	6 R.Belanti	2,750	4,205	4,320		2,750	4,205	4,320
	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	7 S.Danau	1,250	1,746	1,950		1,250	1,746	1,950
	Sub-total	1,275	1,993	1,880	Sub-total	1,995	3,191	2,910	Sub-total	0	0	0	Sub-total	9,305	12,286	13,750	Sub-total	15,300	22,817	23,430	ST	27,875	40,387	41,970
RANK 2	4 S.Pimping	150	309	220	-	0	0	0	1 R.Teras	300	764	430	2 Pengambau	500	1,135	790	-	0	0	0		950	2,208	1,440
- Exist	5 S.Bintro	100	175	150	-	0	0	0	4 T.S.Kambai	2,640	3,362	4,150	5 S.Tamuan	300	699	470	-	0	0	0		3,040	4,236	4,770
	Sub-total	250	484	370	Sub-total	0	0	0	Sub-total	2,940	4,126	4,580	Sub-total	800	1,834	1,260	Sub-total	0	0	0	ST	3,990	6,444	6,210
RANK 3	-	0	0	0	3 R.Pin.Kura	4,600	11,892	13,050	6 S.Sirang	2,500	5,719	7,140	8 R.Amuntai	1,500	3,525	4,290	11 R.Balangan	2,000	3,991	5,000		10,600	25,127	30,480
- Planned	-	0	0	0	-	0	0	0	7 Banjai	800	1,833	2,240	9 R.Garis	1,500	3,525	4,290	12 R.Muning Ex	2,000	6,082	6,000		4,330	11,440	12,530
+ New	-	0	0	0	-	0	0	0	-	0	0	0	10 R.Negara Ex	500	1,067	1,430	13 R.Muni.2Ex	2,000	6,020	6,000		2,500	7,087	7,430
	-	0	0	0	-	0	0	0	-	0	0	0	11 S.Hadengan	3800	8,095	11,400	-	0	0	0		3,800	8,095	11,400
	-	0	0	0	-	0	0	0	-	0	0	0	12 S.B.Alai	1,500	3,195	4,500	-	0	0	0		1,500	3,195	4,500
	-	0	0	0	-	0	0	0	-	0	0	0	13 Tj.Langi	5,000	10,652	15,000	-	0	0	0		5,000	10,652	15,000
	Sub-total	0	0	0	Sub-total	4,600	11,892	13,050	Sub-total	3,300	7,552	9,380	Sub-total	13,800	30,059	40,910	Sub-total	6,000	16,093	18,000	ST	27,700	65,596	81,540
RANK 2																								
- Planned	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0		0	0	0
+ New																								
RANK 3	-	0	0	0	2 R.B.Mandi	1,360	1,846	1,980	3 Tg.Jarumih a/	1,994	6,623	10,690	-	0	0	0	-	0	0	0		3,354	8,469	12,670
- Exist	Sub-total	0	0	0	Sub-total	1,360	1,846	1,980	Sub-total	1,994	6,623	10,690	Sub-total	0	0	0	Sub-total	0	0	0	ST	3,354	8,469	12,670
RANK 3																								
- Planned	8 Bangkilang	400	1,457	520	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0		400	1,457	520
+ New	Sub-total	400	1,457	520	Sub-total	0	0	0	Sub-total	0	0	0	Sub-total	0	0	0	Sub-total	0	0	0	ST	400	1,457	520
RANK 4 and	7 Tamuan	150	585	200	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0		150	585	200
RANK 5	9 Pulau Kun	280	1,457	370	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0		280	1,457	370
	Sub-total	430	2,042	570	Sub-total	0	0	0	Sub-total	0	0	0	Sub-total	0	0	0	Sub-total	0	0	0	ST	430	2,042	570
	Total	2,355	5,976	3,340	Total	7,955	16,929	17,940	Total	8,234	18,301	24,650	Total	23,905	44,279	55,920	Total	21,300	38,910	41,430		63,749	124,395	145,280

Note: a/; For Tg.Jarumih scheme, combination development is recommended after the new development of the Batang Alai irrigation scheme.

Table 4.3 List of Polder Schemes with Construction Cost (Financial Prices) and Paddy Increment by Kabupaten and Ranking

	Tabalong				Hulu Sungai Utara				Hulu Sungai Tengah				Hulu Sungai Selatan				Tapin				Total			
	Scheme	Area (ha)	Const. Cost (Rp.MN)	Paddy Incre. (tons)	Scheme	Area (ha)	Const. Cost (Rp.MN)	Paddy Incre. (tons)	Scheme	Area (ha)	Const. Cost (Rp.MN)	Paddy Incre. (tons)	Scheme	Area (ha)	Const. Cost (Rp.MN)	Paddy Incre. (tons)	Scheme	Area (ha)	Const. Cost (Rp.MN)	Paddy Incre. (tons)		Area (ha)	Const. Cost (Rp.MN)	Paddy Incre. (tons)
RANK 1	-	0	0	0	7 Alabio	4,500	8,217	38,250	-	0	0	0	-	0	0	0	-	0	0	0		4,500	8,217	38,250
- Exist.	Sub-total	0	0	0	Sub-total	4,500	8,217	38,250	Sub-total	0	0	0	Sub-total	0	0	0	Sub-total	0	0	0	ST	4,500	8,217	38,250
RANK 3	-	0	0	0	4 Kahudan	2,300	26	4,200	-	0	0	0	-	0	0	0	-	0	0	0		2,300	26	4,200
- Exist.	-	0	0	0	6 Simp.Empat	1,274	39	1,910	-	0	0	0	-	0	0	0	-	0	0	0		1,274	39	1,910
	Sub-total	0	0	0	Sub-total	3,574	65	6,110	Sub-total	0	0	0	Sub-total	0	0	0	Sub-total	0	0	0	ST	3,574	65	6,110
RANK 4 and	1 Ampukung	418	348	710	2 Baker	2,344	1,723	3,960	-	0	0	0	1 -	0	0	0	-	0	0	0		2,762	2,071	4,670
RANK 5	Sub-total	418	348	710	Sub-total	2,344	1,723	3,960	Sub-total	0	0	0	Sub-total	0	0	0	Sub-total	0	0	0	ST	2,762	2,071	4,670
	Total	418	348	710	Total	10,418	10,005	48,320	Total	0	0	0	Total	0	0	0	Total	0	0	0		10,836	10,353	49,030

Table 4.4 List of All Schemes with Construction Cost (Financial Prices) and Paddy Increment by Kabupaten and Ranking

	Tabalong				Hulu Sungai Utara				Hulu Sungai Tengah				Hulu Sungai Selatan				Tapin				Total			
	Scheme	Area (ha)	Const. Cost (Rp.MN)	Paddy Incre. (tons)	Scheme	Area (ha)	Const. Cost (Rp.MN)	Paddy Incre. (tons)	Scheme	Area (ha)	Const. Cost (Rp.MN)	Paddy Incre. (tons)	Scheme	Area (ha)	Const. Cost (Rp.MN)	Paddy Incre. (tons)	Scheme	Area (ha)	Const. Cost (Rp.MN)	Paddy Incre. (tons)		Area (ha)	Const. Cost (Rp.MN)	Paddy Incre. (tons)
RANK 1	I- Jaro Bawah	200	620	1,700	D- S.P.Habang	1,995	3,191	2,910	-	0	0	0	D- Tg.Lengkau	2,005	2,995	2,950	D- S.Udul	1,000	1,412	1,580		5,200	8,218	9,140
- Exist	D- S.Rampang	600	886	890	P- Alabio	4,500	8,217	38,250	-	0	0	0	D- S.Kajang	1,500	1,844	2,350	D- R.Muning	8,000	11,656	12,000		14,600	22,603	53,490
	D- S.Paliat	475	737	700	-	0	0	0	-	0	0	0	D- S.Tir.Bahalay	600	1,248	970	D- S.Gar.Hulat	1,000	1,468	1,570		2,075	3,453	3,240
	D- S.Nauli	200	370	290	-	0	0	0	-	0	0	0	D- R.Negara	5,200	6,299	7,480	D- S.T.Gadung	1,000	1,739	1,560		6,400	8,408	9,330
	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	D- S.P.Baiwaria	300	591	450		300	591	450
	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	D- R.Belanti	2,750	4,205	4,320		2,750	4,205	4,320
	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	D- S.Danau	1,250	1,746	1,950		1,250	1,746	1,950
	Sub-total	1,475	2,613	3,580	Sub-total	6,495	11,408	41,160	Sub-total	0	0	0	Sub-total	9,305	12,386	13,750	Sub-total	15,300	22,817	25,430	ST	32,575	49,224	81,920
RANK 2	I- Gumbo	254	561	1,020	I- Puras	188	358	750	I- Tapuk	186	270	740	D- T.Pengarbar	500	1,135	790	-	0	0	0		1,128	2,124	3,300
- Exist	D- S.Pinping	150	309	220	-	0	0	0	I- B. Rawang	160	237	640	D- S.Taniran	300	699	470	-	0	0	0		610	1,245	1,330
	D- S.Bintro	100	175	150	-	0	0	0	I- Mangerang	515	586	2,060	-	0	0	0	-	0	0	0		615	761	2,210
	-	0	0	0	-	0	0	0	D- R.Teras	300	764	430	-	0	0	0	-	0	0	0		300	764	430
	-	0	0	0	-	0	0	0	D- T.S.Kamber	2,640	3,362	4,150	-	0	0	0	-	0	0	0		2,640	3,362	4,150
	Sub-total	504	845	1,390	Sub-total	188	358	750	Sub-total	3,801	5,219	8,020	Sub-total	800	1,834	1,260	Sub-total	0	0	0	ST	5,293	8,256	11,420
RANK 1	I- Kinarum	408	1,325	3,470	D- R.Pin.Kiwa	4,600	11,892	13,050	D- S.Sirung	2,500	5,719	7,140	I- Kayu Habang	347	1,128	2,720	I- Labuhan	300	975	1,770		8,155	21,039	28,150
- Planned	I- Mihim	203	659	1,730	P- Alabio	100	522	0	D- Binjai	800	1,833	2,240	D- R.Anidirang	1,500	3,325	4,290	D- R.Bahasan	2,000	3,991	6,000		4,603	10,530	14,260
+ New	I- Banupalat	225	634	1,570	P- Alabio	1,000	9,816	0	-	0	0	0	D- R.Garis	1,500	3,325	4,290	D- R.Muning Ex	2,000	6,082	6,000		4,725	19,057	11,860
	I- Bilas	643	2,089	5,476	-	0	0	0	-	0	0	0	D- R.Negara Ext	500	1,067	1,430	D- R.Muni.2nd Ex	2,000	6,020	6,000		5,143	9,176	12,900
	I- Bany.Tajun	750	2,487	6,380	-	0	0	0	-	0	0	0	D- S.Hadangen	3,800	8,095	11,400	P- Margasari	2,000	32,448	0		6,556	43,030	17,780
	-	0	0	0	-	0	0	0	-	0	0	0	D- S.B.Ale	1,500	3,195	4,500	-	0	0	0		1,500	3,195	4,500
	-	0	0	0	-	0	0	0	-	0	0	0	D- Tj.Lango	5,000	10,652	15,000	-	0	0	0		5,000	10,652	15,000
	Sub-total	2,229	7,194	18,620	Sub-total	5,700	21,230	13,050	Sub-total	3,300	7,552	9,380	Sub-total	14,147	31,187	43,630	Sub-total	8,300	49,516	19,770	ST	33,676	116,679	104,450
RANK 2	I- Nassun	64	207	310	I- Balangan	2,172	15,388	18,460	I- Batang Ala	6,223	38,754	59,120	I- Amandit	6,432	41,387	55,390	-	0	0	0		14,891	93,736	133,280
- Planned	-	0	0	0	I- Pisp	3,734	23,015	35,470	I- Barabai	2,278	14,041	21,640	-	0	0	0	-	0	0	0		6,012	37,056	57,110
+ New	Sub-total	64	207	310	Sub-total	5,906	36,403	53,930	Sub-total	8,501	52,795	80,760	Sub-total	6,432	41,387	55,390	Sub-total	0	0	0		20,903	130,792	190,390
RANK 3	-	0	0	0	D- R.B.Mandi	1,360	1,846	1,980	I- Tamiyang	166	283	660	-	0	0	0	I- Pul.Pinang	270	267	740		1,796	2,396	3,380
- Exist	-	0	0	0	P- Kahdam	2,300	26	4,200	D- Tg.Jarumih	1,994	6,623	10,690	-	0	0	0	-	0	0	0		4,294	6,649	14,890
	-	0	0	0	P- Simp.Empat	1,274	39	1,910	-	0	0	0	-	0	0	0	-	0	0	0		1,274	59	1,910
	Sub-total	0	0	0	Sub-total	4,934	1,911	8,090	Sub-total	2,160	6,906	11,350	Sub-total	0	0	0	Sub-total	270	267	740		7,364	9,084	20,180
RANK 3	I- Sungai Kal	280	790	1,070	-	0	0	0	-	0	0	0	-	0	0	0	I- Tapin	5,328	34,960	43,450		5,608	35,750	44,520
- Planned	D- Bangkiling	400	1,457	520	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0		400	1,457	520
+ New	Sub-total	680	2,247	1,590	Sub-total	0	0	0	Sub-total	0	0	0	Sub-total	0	0	0	Sub-total	5,328	34,960	43,450		6,008	37,207	45,040
RANK 4 and	D- Tamiang	150	585	280	I- Tundakan	233	369	620	I- Talang	165	326	660	I- Tayub	178	250	470	I- Parupam	392	549	1,030		1,118	2,079	2,980
RANK 5	D- Pulau Kua	280	1,457	370	I- Sungin	216	207	310	-	0	0	0	I- Purnajam	214	399	560	I- Tabiken	99	174	270		709	2,237	1,510
	P- Ampukung	418	348	710	P- Bakar	2,544	1,723	5,960	-	0	0	0	-	0	0	0	-	0	0	0		2,762	2,071	4,670
	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0		0	0	0
	Sub-total	848	2,390	1,280	Sub-total	3,693	2,299	4,890	Sub-total	165	326	660	Sub-total	392	649	1,030	Sub-total	491	723	1,300	ST	4,589	6,387	9,160
	Total	5,800	15,496	26,770	Total	25,916	73,609	121,870	Total	17,927	72,798	110,170	Total	31,076	87,443	115,960	Total	29,689	108,283	88,690		110,408	357,629	462,560

I: Irrigation scheme D: Drainage scheme P: Polder scheme F: Fishery scheme

Note: For Tg.Jarumih scheme, combination development is recommended after the new development of the Batang Alai irrigation scheme.

Table 4.5 Estimate of Public Investment for Irrigation, Drainage, Polder and Fishery Projects

(Unit: Rp. million)

	Tabalong		H.S.U		H.S.T		H.S.S		Tapin		Total	
	To be Assigned	Accu-mulated	To be Assigned	Accu-mulated	To be Assigned	Accu-mulated	To be Assigned	Accu-mulated	To be Assigned	Accu-mulated	To be Assigned	Accu-mulated
Case 1												
Repelita V	1,239	1,239	5,888	5,888	5,825	5,825	6,996	6,996	8,664	8,664	28,612	28,612
Repelita VI	690	1,929	3,280	9,169	3,245	9,071	3,897	10,893	4,827	13,490	15,940	44,552
Rep. VII+VIII	3,541	5,470	16,830	25,999	16,650	25,721	19,995	30,888	24,762	38,253	81,778	126,330
Rep. IX+X	11,723	17,194	55,720	81,719	55,125	80,845	66,198	97,086	81,983	120,236	270,750	397,080
Total	17,194		81,719		80,845		97,086		120,236		397,080	
Case 2												
Repelita V	1,239	1,239	5,888	5,888	5,825	5,825	6,996	6,996	8,664	8,664	28,612	28,612
Repelita VI	614	1,853	2,920	8,809	2,889	8,714	3,469	10,465	4,297	12,960	14,190	42,802
Rep. VII+VIII	2,347	4,200	11,155	19,964	11,036	19,750	13,253	23,718	16,413	29,373	54,203	97,005
Rep. IX+X	5,404	9,604	25,684	45,647	25,409	45,159	30,514	54,231	37,789	67,163	124,800	221,805
Total	9,604		45,647		45,159		54,231		67,163		221,805	
Case 3												
Repelita V	1,239	1,239	5,888	5,888	5,825	5,825	6,996	6,996	8,664	8,664	28,612	28,612
Repelita VI	565	1,804	2,685	8,574	2,657	8,482	3,190	10,186	3,951	12,615	13,049	41,661
Rep. VII+VIII	1,746	3,550	8,300	16,874	8,211	16,693	9,861	20,047	12,212	24,827	40,330	81,991
Rep. IX+X	3,079	6,629	14,632	31,506	14,476	31,169	17,384	37,431	21,529	46,356	71,099	153,090
Total	6,629		31,506		31,169		37,431		46,356		153,090	
Case 4												
Repelita V	1,239	1,239	5,888	5,888	5,825	5,825	6,996	6,996	8,664	8,664	28,612	28,612
Repelita VI	502	1,741	2,386	8,274	2,360	8,186	2,834	9,830	3,510	12,174	11,593	40,205
Rep. VII+VIII	1,152	2,893	5,477	13,751	5,418	13,604	6,507	16,337	8,058	20,232	26,612	66,817
Rep. IX+X	1,383	4,276	6,572	20,323	6,502	20,106	7,808	24,145	9,670	29,902	31,936	98,753
Total	4,276		20,323		20,106		24,145		29,902		98,753	

Table 4.6 Investment Plan for Irrigatin, Drainage, Polder and Plabory Projects by Kabupaten in Case 1

	Tabalong				Hulu Sungai Utara				Hulu Sungai Tengah				Hulu Sungai Selatan				Tapin				Total			
	Scheme	Area (ha)	Const. Cost (Rp.MN)	Paddy Incre. (tons)	Scheme	Area (ha)	Const. Cost (Rp.MN)	Paddy Incre. (tons)	Scheme	Area (ha)	Const. Cost (Rp.MN)	Paddy Incre. (tons)	Scheme	Area (ha)	Const. Cost (Rp.MN)	Paddy Incre. (tons)	Scheme	Area (ha)	Const. Cost (Rp.MN)	Paddy Incre. (tons)		Area (ha)	Const. Cost (Rp.MN)	Paddy Incre. (tons)
REPELITA V	I- Jaro Bawah	200	620	1,700	P- Alabio	4,500	8,217	38,250	D- R.Taras	500	764	430	D- R.Negara	5,200	6,299	7,480	D- S.T.Gadung	1,000	1,739	1,560		11,200	17,639	49,420
	-	0	0	0	-	0	0	0	I- Tapuk	186	270	740	D- S.Tamiang	300	699	470	D- S.Gar.Hular	1,000	1,468	1,570		1,486	2,437	2,780
	-	0	0	0	-	0	0	0	I- B. Hawang	160	237	640	-	0	0	0	D- S.P.Baharis	500	591	450		460	828	1,090
	-	0	0	0	-	0	0	0	I- Manguang	515	586	2,060	-	0	0	0	D- S.Udul	1,000	1,472	1,580		1,515	1,998	3,540
	-	0	0	0	-	0	0	0	D- T.S.Kambar	2,640	3,562	4,130	-	0	0	0	D- S.Damar	1,250	1,746	1,950		3,890	5,308	6,100
	Sub-total	200	620	1,700	Sub-total	4,500	8,217	38,250	Sub-total	3,801	5,219	8,020	Sub-total	5,500	6,998	7,950	Sub-total	4,550	6,956	7,110	Sub-total	18,551	28,010	63,030
REPELITA VI	D- S.Rampang	600	886	890	P- Alabio	100	522	0	D- Binjai	800	1,853	2,040	D- S.Kajang	1,500	1,844	2,350	D- R.Belanti	2,750	4,205	4,320		5,750	9,290	9,800
	-	0	0	0	I- Paran	188	358	750	-	0	0	0	D- Pengantan	500	1,135	790	I- Labchan	500	975	1,770		988	2,468	3,310
	Sub-total	600	886	890	Sub-total	288	880	750	Sub-total	800	1,853	2,240	Sub-total	2,000	2,979	3,140	Sub-total	3,050	5,180	6,090	Sub-total	6,738	11,758	13,110
	Accumulate	800	1,506	2,590	Accumulate	4,788	9,097	39,000	Accumulate	4,601	7,052	10,260	Accumulate	7,500	9,977	11,090	Accumulate	7,600	12,136	13,200	Accumulate	25,289	39,768	76,340
REPELITA VI+ VII	D- S.Paliat	475	737	700	D- S.P.Habang	1,995	3,191	2,910	D- S.Surung	2,500	5,719	7,140	D- S.Tnt.Baka	600	1,248	970	D- R.Muning	8,000	11,656	12,000		13,570	22,551	23,720
	D- S.Nasa	200	370	290	P- Alabio	1,000	6,816	0	I- Barabai	2,278	14,041	21,640	D- Tg.Lumpitan	2,005	2,995	2,950	D- R.Bahaman	2,000	3,991	6,000		7,483	30,213	30,880
	D- S.Pimping	150	309	220	-	0	0	0	-	0	0	0	I- Kayu Habang	347	1,128	2,720	D- R.Muning Ex	2,000	6,082	6,000		2,497	7,519	8,940
	D- S.Bintro	100	175	150	-	0	0	0	-	0	0	0	D- R.Ankinang	1,500	3,525	4,290	-	0	0	0		1,600	3,700	4,440
	I- Gumba	254	361	1,020	-	0	0	0	-	0	0	0	D- R.Garis	1,500	3,525	4,290	-	0	0	0		1,754	3,886	5,310
	I- Mitan	203	659	1,730	-	0	0	0	-	0	0	0	D- R.Negara Ext	500	1,067	1,430	-	0	0	0		703	1,726	3,160
	Sub-total	1,582	2,611	4,110	Sub-total	2,995	12,007	2,910	Sub-total	4,778	19,760	28,780	Sub-total	6,452	13,488	16,650	Sub-total	12,000	21,729	24,000	Sub-total	27,607	69,595	76,450
	Accumulate	2,182	4,117	6,700	Accumulate	7,783	21,104	41,910	Accumulate	9,379	26,812	39,040	Accumulate	13,952	25,465	27,740	Accumulate	19,600	35,865	37,200	Accumulate	52,896	109,563	152,590
REPELITA IX+ X	I- Biliu	543	2,089	5,470	D- R.Pin.Kura	4,600	12,392	13,050	I- Barang Alai	6,223	38,754	59,120	D- S.Padangan	3,800	8,095	11,400	D- R.Muni.24Ex	2,000	6,020	6,000		17,266	66,850	95,040
	I- Kinarum	408	1,325	3,470	I- Pitap	3,734	23,015	35,470	I- Tamiyang	166	283	660	D- S.B. Alai	1,500	3,195	4,500	F- Margasari	2,000	32,448	0		7,808	60,266	44,100
	I- Banyulut	225	654	1,570	I- Balangan	2,172	13,388	18,460	D- Tg.Jarauh	1,994	6,623	10,690	D- Tj.Lang	5,000	10,652	15,000	I- Pel.Pinang	270	267	740		9,661	31,564	46,460
	I- Batu.Tajin	750	2,487	6,380	D- R.B.Mandi	1,360	1,846	1,960	I- Talang	165	326	660	I- Amandit	6,432	41,387	55,590	I- Tapin	5,328	34,960	43,650		14,035	81,006	107,860
	I- Sungai Kan	280	790	1,070	P- Kahaian	2,300	26	4,200	-	0	0	0	I- Tayuh	178	250	470	I- Pampain	392	549	1,030		3,150	1,615	6,770
	D- Bangkiling	400	1,457	520	P- Sungi Empat	1,274	39	1,910	-	0	0	0	I- Pamparan	214	399	560	I- Tanikan	99	174	270		1,987	2,069	3,260
	I- Namun	64	207	310	I- Tundakan	233	369	620	-	0	0	0	-	0	0	0	-	0	0	0		297	576	930
	D- Tamuan	150	585	200	I- Sungin	116	207	310	-	0	0	0	-	0	0	0	-	0	0	0		266	792	510
	D- Pulau Kua	220	1,457	370	P- Bakar	2,344	1,723	3,960	-	0	0	0	-	0	0	0	-	0	0	0		2,624	3,180	4,330
	P- Ampahung	418	348	710	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0		418	348	710
	Sub-total	3,618	11,379	20,070	Sub-total	18,133	52,505	79,960	Sub-total	8,548	45,986	71,130	Sub-total	17,124	63,978	87,320	Sub-total	10,089	74,418	51,490	Sub-total	57,512	248,266	309,970
	Accumulate	5,800	15,496	26,770	Accumulate	25,916	73,609	121,870	Accumulate	17,927	72,798	110,170	Accumulate	31,076	87,443	115,060	Accumulate	29,689	106,283	88,690	Accumulate	110,408	357,629	462,560

I: Irrigation scheme D: Drainage scheme P: Polder scheme P: Plabory scheme

Note: For Tg.Jaruah scheme, combination development is proposed after the new development of the Barang Alai irrigation scheme.

Table 4.7 Investment Plan for Irrigation, Drainage, Polder and Fishery Projects by Kabupaten in Case 2

	Tabalong				Hulu Sungai Utara				Hulu Sungai Tengah				Hulu Sungai Selatan				Tapin				Total			
	Scheme	Area (ha)	Const. Cost (Rp.MN)	Paddy Incre. (tons)	Scheme	Area (ha)	Const. Cost (Rp.MN)	Paddy Incre. (tons)	Scheme	Area (ha)	Const. Cost (Rp.MN)	Paddy Incre. (tons)	Scheme	Area (ha)	Const. Cost (Rp.MN)	Paddy Incre. (tons)	Scheme	Area (ha)	Const. Cost (Rp.MN)	Paddy Incre. (tons)		Area (ha)	Const. Cost (Rp.MN)	Paddy Incre. (tons)
REPELITA	I- Jaro Bawah	200	620	1,700	P- Alabio	4,500	8,217	38,250	D- R.Tapus	300	764	430	D- R.Negara	5,200	6,299	7,480	D- S.T.Gadung	1,000	1,739	1,560		11,200	17,639	49,420
V	-	0	0	0	-	0	0	0	I- Tapuk	186	270	740	D- S.Tauiran	300	699	470	D- S.Gar.Halat	1,000	1,468	1,570		1,486	2,437	2,780
	-	0	0	0	-	0	0	0	I- B. Pawang	150	237	640	-	0	0	0	D- S.P.Babaru	300	591	450		460	828	1,090
	-	0	0	0	-	0	0	0	I- Mangunang	515	596	2,060	-	0	0	0	D- S.Utul	1,000	1,412	1,580		1,515	1,998	3,640
	-	0	0	0	-	0	0	0	D- T.S.Kambat	2,640	3,362	4,150	-	0	0	0	D- S.Demar	1,250	1,746	1,950		3,890	5,108	6,100
	Sub-total	200	620	1,700	Sub-total	4,500	8,217	38,250	Sub-total	3,801	5,219	8,020	Sub-total	5,500	6,998	7,950	Sub-total	4,550	6,956	7,210	Sub-total	18,551	28,010	63,030
REPELITA	D- S.Rampang	500	886	890	P- Alabio	100	522	0	D- Birayi	800	1,833	2,240	D- S.Kajang	1,500	1,844	2,350	D- R.Belanti	2,750	4,205	4,320		5,750	9,290	9,800
VI	-	0	0	0	-	0	0	0	-	0	0	0	D- T.Pengambau	500	1,135	790	I- Labehan	300	975	1,770		800	2,110	2,560
	Sub-total	600	886	890	Sub-total	100	522	0	Sub-total	800	1,833	2,240	Sub-total	2,000	2,979	3,140	Sub-total	3,050	5,180	6,090	Sub-total	6,550	11,400	12,360
	Accumulate	800	1,506	2,590	Accumulate	4,600	8,739	38,250	Accumulate	4,601	7,052	10,260	Accumulate	7,500	9,977	11,090	Accumulate	7,600	12,136	13,200	Accumulate	25,101	39,410	75,390
REPELITA	D- S.Pulas	475	737	700	I- Paren	188	358	750	D- S.Sarang	2,500	5,719	7,140	D- S.Tir.Bahaley	600	1,248	970	D- R.Muning	8,000	11,656	12,000		11,763	19,718	21,560
VII +	D- S.Nerus	200	370	290	D- S.P.Habang	1,955	3,191	2,910	-	0	0	0	D- Tg.Lungkas	2,005	2,995	2,950	D- R.Bahanan	2,000	3,991	6,000		6,200	10,547	12,150
VIII	D- S.Pimping	150	309	220	-	0	0	0	-	0	0	0	I- Kayu Habang	347	1,128	2,720	-	0	0	0		497	1,437	2,940
	D- S.Rizwo	100	175	150	-	0	0	0	-	0	0	0	D- R.Ankisang	1,500	3,525	4,290	-	0	0	0		1,600	3,700	4,440
	I- Gemba	254	361	1,020	-	0	0	0	-	0	0	0	D- R.Garis	1,500	3,525	4,290	-	0	0	0		1,754	3,886	5,310
	I- Mihin	203	659	1,730	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0		202	659	1,730
	Sub-total	1,382	2,611	4,110	Sub-total	2,183	3,549	3,660	Sub-total	2,500	5,719	7,140	Sub-total	5,952	12,421	15,220	Sub-total	10,000	15,647	18,000	Sub-total	22,017	39,547	48,150
	Accumulate	2,182	4,117	6,700	Accumulate	6,783	12,288	41,910	Accumulate	7,101	12,771	17,400	Accumulate	13,452	22,398	26,310	Accumulate	17,600	27,783	31,200	Accumulate	47,118	79,357	123,520
REPELITA	I- Bilas	643	2,089	5,470	P- Alabio	1,000	8,816	0	I- Batabai	2,278	14,041	21,640	D- R.Negara Bat	500	1,067	1,430	D- R.Muning Ba	2,000	6,082	6,000		6,421	22,295	34,540
IX +	I- Kinarum	408	1,325	3,470	D- R.Pin.Kura	4,500	11,892	13,050	-	0	0	0	D- S.Hadangan	3,800	8,095	11,400	D- R.Muni.2dEx	2,000	6,202	6,000		10,808	27,332	33,920
X	I- Batapalat	225	634	1,570	-	0	0	0	-	0	0	0	D- S.B. Ala	1,500	3,195	4,500	-	0	0	0		1,725	3,829	6,070
	I- Batu Tayan	750	2,487	6,380	-	0	0	0	-	0	0	0	D- Tj.Langi	5,000	10,652	15,000	-	0	0	0		5,750	13,139	21,380
	I- Sungai Kan	280	790	1,070	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0		280	790	1,070
	D- Bangkiling	400	1,457	520	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0		400	1,457	520
	I- Nanem	64	207	310	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0		64	207	310
	D- Tamuan	150	585	200	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0		150	585	200
	Sub-total	2,920	9,574	18,990	Sub-total	5,500	20,708	13,050	Sub-total	2,278	14,041	21,640	Sub-total	10,800	23,009	32,330	Sub-total	4,000	12,102	12,000	Sub-total	25,598	79,434	98,010
	Accumulate	5,102	13,691	25,090	Accumulate	12,383	32,996	54,960	Accumulate	9,379	26,812	39,040	Accumulate	24,252	45,607	58,640	Accumulate	21,600	39,885	43,200	Accumulate	72,716	158,791	221,530
After	D- Pulau Kua	280	1,457	370	I- Pitap	3,734	23,015	35,470	I- Batang Alai	6,223	38,754	59,120	I- Amandit	6,432	41,387	55,390	P- Margasari	2,000	32,448	0		18,669	137,061	150,350
Repelita X	P- Ampeking	418	348	710	I- Belangan	2,172	13,388	18,460	I- Tamiyang	166	283	660	I- Tayab	178	250	470	I- Pal.Pinang	270	267	740		3,204	14,536	21,040
	-	0	0	0	D- R.B.Mandi	1,360	1,846	1,980	D- Tg.Jarumih	1,994	6,623	10,690	I- Pamujan	214	399	560	I- Tapin	5,328	34,960	43,650		8,896	43,828	56,580
	-	0	0	0	P- Kalindan	2,300	26	4,200	I- Talang	165	326	660	-	0	0	0	I- Pampain	392	549	1,030		2,857	901	5,890
	-	0	0	0	P- Sungi Rangat	1,274	39	1,910	-	0	0	0	-	0	0	0	I- Tanikan	99	174	270		1,373	213	2,180
	-	0	0	0	I- Tundakan	233	369	620	-	0	0	0	-	0	0	0	-	0	0	0		233	369	620
	-	0	0	0	I- Sungai	116	207	310	-	0	0	0	-	0	0	0	-	0	0	0		116	207	310
	-	0	0	0	P- Bakar	2,344	1,723	3,960	-	0	0	0	-	0	0	0	-	0	0	0		2,344	1,723	3,960
	Sub-total	698	1,805	1,080	Sub-total	13,533	40,613	66,910	Sub-total	8,548	45,986	71,130	Sub-total	6,824	42,036	56,420	Sub-total	8,089	68,598	45,490	Sub-total	37,692	198,838	241,530
	Accumulate	5,800	15,496	26,770	Accumulate	25,916	73,609	121,870	Accumulate	17,927	72,798	110,170	Accumulate	31,076	87,443	115,060	Accumulate	29,689	108,283	88,690	Accumulate	110,408	357,629	462,560

I: Irrigation scheme D: Drainage scheme P: Polder scheme F: Fishery scheme

Note: For Tg.Jarumih scheme, continuation development is proposed after the new development of the Batang Alai irrigation scheme.

Table 4.8 Investment Plan for Irrigation, Drainage, Polder and Fishery Projects by Kabupaten in Case 3

	Tabalong				Hulu Sungai Utara				Hulu Sungai Tengah				Hulu Sungai Selatan				Tapin				Total			
	Scheme	Area (ha)	Const. Cost (Rp.MN)	Paddy Incre. (tons)	Scheme	Area (ha)	Const. Cost (Rp.MN)	Paddy Incre. (tons)	Scheme	Area (ha)	Const. Cost (Rp.MN)	Paddy Incre. (tons)	Scheme	Area (ha)	Const. Cost (Rp.MN)	Paddy Incre. (tons)	Scheme	Area (ha)	Const. Cost (Rp.MN)	Paddy Incre. (tons)		Area (ha)	Const. Cost (Rp.MN)	Paddy Incre. (tons)
REPELITA V	I- Jaro Sawah	200	620	1,700	P- Alabio	4,500	8,217	38,250	D- R.Tapus	300	764	450	D- R.Negara	5,200	6,299	7,480	D- S.T.Gadung	1,000	1,739	1,560		11,200	17,639	49,420
	-	0	0	0	-	0	0	0	I- Tapuk	186	270	740	D- S.Tunirat	300	699	470	D- S.Gar.Halat	1,000	1,468	1,570		1,486	2,437	2,780
	-	0	0	0	-	0	0	0	I- B. Hawang	160	227	640	-	0	0	0	D- S.P.Babaras	300	591	450		460	828	1,090
	-	0	0	0	-	0	0	0	I- Merguneng	515	586	2,060	-	0	0	0	D- S.Udul	1,000	1,412	1,580		1,515	1,998	3,640
	-	0	0	0	-	0	0	0	D- T.S.Kambat	2,640	3,362	4,150	-	0	0	0	D- S.Damar	1,250	1,746	1,950		3,890	5,108	6,100
	Sub-total	200	620	1,700	Sub-total	4,500	8,217	38,250	Sub-total	3,851	5,219	8,920	Sub-total	5,500	6,998	7,950	Sub-total	4,550	6,956	7,110	Sub-total	18,551	28,010	63,030
REPELITA VI	D- S.Rampang	600	886	890	-	0	0	0	D- Banjai	800	1,833	2,240	D- S.Kajang	1,500	1,844	2,350	D- R.Belanti	2,750	4,205	4,320		5,650	8,768	9,800
	-	0	0	0	-	0	0	0	-	0	0	0	D- T.Pangembau	500	1,135	790	I- Lebuhar	300	975	1,770		800	2,110	2,560
	Sub-total	500	886	890	Sub-total	0	0	0	Sub-total	800	1,833	2,240	Sub-total	2,000	2,979	3,140	Sub-total	3,050	5,180	6,090	Sub-total	6,450	10,878	12,360
	Accumulate	800	1,506	2,590	Accumulate	4,500	8,217	38,250	Accumulate	4,601	7,052	10,260	Accumulate	7,500	9,977	11,090	Accumulate	7,500	12,136	13,200	Accumulate	25,001	38,888	75,390
REPELITA VII + VIII	D- S.Paku	475	737	700	P- Alabio	100	522	0	D- S.Sirung	2,500	5,719	7,140	D- S.Tirt.Bahaiay	600	1,248	970	D- R.Muning	8,000	11,656	12,000		11,675	19,882	20,810
	D- S.Nenti	200	370	290	I- Paret	168	358	750	-	0	0	0	D- Tg.Lungkas	2,005	2,995	2,950	-	0	0	0		2,393	3,723	3,990
	D- S.Pimpang	150	309	220	D- S.P.Habang	1,995	3,191	2,910	-	0	0	0	I- Kayu Habang	347	1,128	2,720	-	0	0	0		2,492	4,628	5,850
	D- S.Buntro	100	175	150	-	0	0	0	-	0	0	0	D- R.Ambitang	1,500	3,525	4,290	-	0	0	0		1,600	3,700	4,440
	Sub-total	925	1,591	1,360	Sub-total	2,283	4,071	3,660	Sub-total	2,500	5,719	7,140	Sub-total	4,452	8,896	10,930	Sub-total	8,000	11,656	12,000	Sub-total	18,160	31,933	35,090
	Accumulate	1,725	3,097	3,950	Accumulate	6,783	12,288	41,910	Accumulate	7,101	12,771	17,400	Accumulate	11,952	18,873	22,020	Accumulate	15,500	23,792	25,200	Accumulate	43,161	70,821	110,420
REPELITA IX + X	I- Gumba	254	361	1,020	P- Alabio	1,000	8,816	0	I- Barabai	2,278	14,041	21,640	D- R.Garu	1,500	3,525	4,290	D- R.Baharam	2,000	3,991	6,000		7,032	30,734	32,950
	I- Mbiru	203	659	1,730	D- R.Pin.Kura	4,600	11,892	13,050	-	0	0	0	D- R.Negara Ext	500	1,067	1,430	D- R.Muning Ex	2,000	6,082	5,000		7,303	19,700	22,210
	I- Bilas	643	2,089	5,470	-	0	0	0	-	0	0	0	D- S.Hadangan	3,800	8,095	11,400	D- R.Muni.2dEx	2,000	6,020	6,000		6,443	16,204	22,870
	I- Kmaran	408	1,325	3,470	-	0	0	0	-	0	0	0	D- S.B. Alai	1,500	3,195	4,500	-	0	0	0		1,908	4,520	7,970
	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0		0	0	0
	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0		0	0	0
	Sub-total	1,508	4,434	11,690	Sub-total	5,600	20,708	13,050	Sub-total	2,278	14,041	21,640	Sub-total	7,300	15,882	21,620	Sub-total	6,000	16,093	18,000	Sub-total	22,686	71,156	86,000
	Accumulate	3,233	7,531	15,640	Accumulate	12,383	32,996	54,960	Accumulate	9,379	26,812	39,040	Accumulate	19,252	34,755	43,640	Accumulate	21,600	39,895	43,200	Accumulate	65,847	141,979	196,480
After Repelita X	I- Banpalu	225	534	1,570	I- Pitap	3,734	23,015	35,470	I- Batang Alai	6,223	38,754	59,120	D- Tj.Langi	5,000	10,652	15,000	R- Margasari	2,000	32,448	0		17,182	105,503	111,160
	I- Batu.Tajun	750	2,487	6,580	I- Balangan	2,172	13,388	18,460	I- Tamiyang	166	285	660	I- Amandit	6,432	41,387	55,390	I- Pal.Pinang	270	267	740		9,790	57,812	81,630
	I- Sungai.Kan	280	790	1,070	D- R.B.Mundi	1,360	1,845	1,980	D- Tj.Jarumh	1,994	6,625	10,690	I- Tayub	178	250	470	I- Tapin	5,328	34,960	43,450		9,140	44,469	57,660
	D- Bangkiling	400	1,457	520	P- Kelitidan	2,300	26	4,200	I- Talang	165	326	660	I- Paminjam	214	399	560	I- Pamopim	392	549	1,030		3,471	2,757	6,970
	I- Nasrun	64	267	310	P- Simp.Empat	1,274	39	1,910	-	0	0	0	-	0	0	0	I- Tanakan	59	174	270		1,437	420	2,490
	D- Tarusan	150	585	200	I- Tundakan	233	369	620	-	0	0	0	-	0	0	0	-	0	0	0		383	954	820
	D- Pulau Kus	280	1,457	370	I- Suapan	116	207	310	-	0	0	0	-	0	0	0	-	0	0	0		396	1,664	680
	P- Ampukung	418	348	710	P- Bakar	2,344	1,725	3,960	-	0	0	0	-	0	0	0	-	0	0	0		2,762	2,071	4,570
	Sub-total	2,567	7,965	11,130	Sub-total	13,533	40,613	66,910	Sub-total	8,548	45,986	71,130	Sub-total	11,824	52,688	71,420	Sub-total	8,089	68,398	45,490		44,561	215,550	266,080
	Accumulate	5,800	15,496	26,770	Accumulate	25,916	73,609	121,870	Accumulate	17,927	72,798	110,170	Accumulate	31,076	87,443	115,060	Accumulate	29,689	108,283	88,690		110,408	357,625	462,560

I: Irrigation scheme D: Drainage scheme P: Polder scheme F: Fishery scheme

Note: For Tg.Jarumh scheme, combination development is proposed after the new development of the Batang Alai irrigation scheme.

Table 6.9 Investment Plan for Irrigatin, Drainage, Polder and Fishery Projects by Kabupaten in Case 4

	Tabalong				Hulu Sungai Utara				Hulu Sungai Tengah				Hulu Sungai Selatan				Tapin				Total			
	Scheme	Area (ha)	Const. Cost (Rp.MN)	Paddy Incre. (tons)	Scheme	Area (ha)	Const. Cost (Rp.MN)	Paddy Incre. (tons)	Scheme	Area (ha)	Const. Cost (Rp.MN)	Paddy Incre. (tons)	Scheme	Area (ha)	Const. Cost (Rp.MN)	Paddy Incre. (tons)	Scheme	Area (ha)	Const. Cost (Rp.MN)	Paddy Incre. (tons)		Area (ha)	Const. Cost (Rp.MN)	Paddy Incre. (tons)
REPELITA V	I- Jaro Bawah	200	620	1,700	P- Alabio	4,500	8,217	38,250	D- R.Teras	300	764	450	D- R.Negara	5,200	6,299	7,480	D- S.T.Galting	1,000	1,739	1,560		11,200	17,639	49,420
	-	0	0	0	-	0	0	0	I- Tapuk	186	270	740	D- S.Tamiyan	300	699	470	D- S.Ger.Halat	1,000	1,468	1,570		1,486	2,437	2,780
	-	0	0	0	-	0	0	0	I- B. Rawang	160	237	640	-	0	0	0	D- S.P.Baharis	300	591	450		460	828	1,090
	-	0	0	0	-	0	0	0	I- Mangunang	515	586	2,060	-	0	0	0	D- S.Udai	1,000	1,412	1,580		1,515	1,998	3,640
	-	0	0	0	-	0	0	0	D- T.S.Kambat	2,640	3,362	4,150	-	0	0	0	D- S.Damar	1,250	1,746	1,950		3,890	5,108	6,100
	Sub-total	200	620	1,700	Sub-total	4,500	8,217	38,250	Sub-total	3,801	5,219	8,020	Sub-total	5,500	6,998	7,950	Sub-total	4,550	6,956	7,310	Sub-total	18,551	28,010	63,030
REPELITA VI	D- S.Rempang	600	886	890	-	0	0	0	D- Benjai	800	1,833	2,240	D- S.Kajang	1,500	1,844	2,350	D- R.Belimi	2,750	4,205	4,320		5,650	8,768	9,800
	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0		0	0	0
	Sub-total	600	886	890	Sub-total	0	0	0	Sub-total	800	1,833	2,240	Sub-total	1,500	1,844	2,350	Sub-total	2,750	4,205	4,320	Sub-total	5,650	8,768	9,800
	Accumulate	800	1,506	2,590	Accumulate	4,500	8,217	38,250	Accumulate	4,601	7,052	10,260	Accumulate	7,000	8,842	10,300	Accumulate	7,300	11,161	11,630	Accumulate	24,201	36,778	72,830
REPELITA VII + VIII	D- S.Pitai	475	737	700	P- Alabio	100	522	0	D- S.Sirung	2,500	5,719	7,140	D- T.Pangarbar	500	1,135	790	I- Labuhan	300	975	1,770		3,875	9,085	10,400
	D- S.Nanti	200	370	250	I- Paru	188	358	750	-	0	0	0	D- S.Tkt.Sebaka	600	1,248	570	-	0	0	0		988	1,976	2,020
	-	0	0	0	D- S.P.Haberg	1,995	3,191	2,910	-	0	0	0	D- Tg.Lungkan	2,005	2,595	2,950	-	0	0	0		4,000	6,186	5,860
	-	0	0	0	-	0	0	0	-	0	0	0	I- Kayu Habang	347	1,128	2,720	-	0	0	0		347	1,128	2,720
	Sub-total	675	1,107	950	Sub-total	2,283	4,071	3,660	Sub-total	2,500	5,719	7,140	Sub-total	3,452	6,506	7,430	Sub-total	300	975	1,770	Sub-total	9,210	18,378	20,990
	Accumulate	1,475	2,613	3,580	Accumulate	6,783	12,288	41,910	Accumulate	7,101	12,771	17,400	Accumulate	10,452	15,348	17,730	Accumulate	7,600	12,136	13,200	Accumulate	33,411	55,156	93,820
REPELITA IX + X	D- S.Pimping	150	309	220	-	0	0	40	-	0	0	0	D- R.Ankurung	1,500	3,525	4,290	D- R.Muring	8,000	11,656	12,000		9,650	15,490	16,510
	D- S.Batiro	100	175	150	-	0	0	0	-	0	0	0	D- R.Gara	1,500	3,525	4,290	D- R.Batumus	2,000	3,991	6,000		3,600	7,691	10,440
	I- Quraba	254	361	1,020	-	0	0	0	-	0	0	0	D- R.Negara Ext	500	1,067	1,430	-	0	0	0		754	1,428	2,450
	I- Mihan	203	659	1,730	-	0	0	0	-	0	0	0	-	0	0	0	-	0	0	0		203	659	1,730
	Sub-total	707	1,504	3,120	Sub-total	0	0	0	Sub-total	0	0	0	Sub-total	3,500	8,117	10,010	Sub-total	10,000	15,647	18,000	Sub-total	14,207	25,268	31,130
	Accumulate	2,182	4,117	6,700	Accumulate	6,783	12,288	41,910	Accumulate	7,101	12,771	17,400	Accumulate	13,952	23,465	27,740	Accumulate	17,600	27,783	31,200	Accumulate	47,618	80,424	124,950
After Repelita X	I- Biha	643	2,089	5,470	P- Alabio	1,000	8,816	0	I- Banabai	2,278	14,041	21,640	D- S.Hadangan	3,800	8,095	11,400	D- R.Muning Ex	2,000	6,082	5,000		9,721	39,123	44,520
	I- Kararam	408	1,325	3,470	D- R.Pur.Kura	4,600	11,892	13,050	I- Batang Alai	6,223	38,754	59,120	D- S.B. Alai	1,500	3,195	4,500	D- R.Mtsi.2dEx	2,000	6,020	6,000		14,731	61,366	86,140
	I- Batapahu	225	634	1,570	I- Pasp	3,734	25,015	35,470	I- Tamiyang	166	283	660	D- Tj.Langi	5,000	10,652	15,000	P- Mangawi	2,000	32,448	0		11,125	67,032	52,700
	I- Bany.Tayan	750	2,487	6,380	I- Balangan	2,172	13,388	18,460	D- Tg.Jeramh	1,994	6,623	10,690	I- Amandit	6,432	41,387	55,390	I- Pak.Pimang	270	267	740		13,618	64,252	91,660
	I- Sungai Kan	280	790	1,070	D- R.R.Mandi	1,260	1,846	1,980	I- Telang	165	326	660	I- Tayab	178	250	470	I- Tapin	5,328	34,960	42,450		7,311	38,172	47,630
	D- Bangkiling	400	1,457	520	P- Kahuden	2,300	26	4,200	-	0	0	0	I- Pamujan	214	399	560	I- Pampain	392	549	1,030		3,306	2,431	6,310
	I- Nanuan	64	207	310	P- Sungi Empat	1,274	39	1,910	-	0	0	0	-	0	0	0	I- Tanakan	99	174	270		1,437	420	2,490
	D- Tanuan	150	585	200	I- Teodahan	233	369	520	-	0	0	0	-	0	0	0	-	0	0	0		383	954	820
	D- Pulau Kan	280	1,457	370	I- Sungai	116	207	310	-	0	0	0	-	0	0	0	-	0	0	0		396	1,664	680
	P- Aranganang	416	348	710	P- Balcor	2,344	1,723	3,960	-	0	0	0	-	0	0	0	-	0	0	0		2,762	2,071	4,670
	Sub-total	3,618	11,379	20,070	Sub-total	19,133	61,321	79,960	Sub-total	10,826	60,027	92,770	Sub-total	17,124	63,978	87,320	Sub-total	12,289	80,500	57,490	Sub-total	62,790	277,205	337,610
	Accumulate	5,800	15,496	26,770	Accumulate	25,916	73,609	121,870	Accumulate	17,927	72,798	110,170	Accumulate	31,076	87,443	115,060	Accumulate	29,689	108,283	88,690	Accumulate	110,408	357,629	462,560

I: Irrigation scheme D: Drainage scheme P: Polder scheme F: Fishery scheme

Note: For Tg.Jeramh scheme, combination development is proposed after the new development of the Batang Alai irrigation scheme.

Table 5.1 Estimate of Incremental Labor Requirement

		Present Condition			With Project Condition			
		b/ Area (ha)	a/ Unit Labor Requirement (MD/ha)	Total Labor Requirement (1000 MD)	b/ Area (ha)	a/ Unit Labor Requirement (MD/ha)	Total Labor Requirement (1000 MD)	Increment (1000 MD)
Case 1	Existing	49,391	125.2	6,183.8	49,391	273.6	13,513.4	7,329.6
	Planned + New	0		0.0	61,017	273.6	16,694.3	16,694.3
	Total	49,391		6,183.8	110,408		30,207.6	24,023.9
Case 2	Existing	38,034	125.2	4,761.9	38,034	273.6	10,406.1	5,644.2
	Planned + New	0		0.0	34,682	273.6	9,489.0	9,489.0
	Total	38,034		4,761.9	72,716		19,895.1	15,133.2
Case 3	Existing	38,034	125.2	4,761.9	38,034	273.6	10,406.1	5,644.2
	Planned + New	0		0.0	27,813	273.6	7,609.6	7,609.6
	Total	38,034		4,761.9	65,847		18,015.7	13,253.9
Case 4	Existing	38,034	125.2	4,761.9	38,034	273.6	10,406.1	5,644.2
	Planned + New	0		0.0	9,584	273.6	2,622.2	2,622.2
	Total	38,034		4,761.9	47,618		13,028.3	8,266.4

a/: Weighted average requirement estimated as below;

1) Present Condition

	Unit requirement * (MD/ha)	Areal Extent ** (%)	Requirement (MD/ha)
Irrigation Schemes	140	26.1	36.5
Drainage Schemes	120	41.6	49.9
Polder Schemes	120	32.3	38.8
Weighted average			125.2

2) *With Project Condition*

	Unit requirement * (MD/ha)	Areal Extent ** (%)	Requirement (MD/ha)
Irrigation Schemes	420	26.1	109.6
Drainage Schemes	270	41.6	112.3
Polder Schemes	160	32.3	51.7
Weighted average			273.6

*; Unit requirement per hectare by cropping pattern
**; Estimated based on the present land use by facility

Source: b/; Tables 4.6, 4.7, 4.8 and 4.9

Table 5.2 Farm Budget Analysis under With and Without Project Conditions (1/2)

(1) Rawa Negara Drainage Scheme
Farmer with 1.0 ha land

		Without Project			With Project			
		Area (ha)	Unit Gross Income/Cost (Rp.'000/ha)	Amount (Rp.'000)	Area (ha)	Unit Gross Income/Cost (Rp.'000/ha)	Amount (Rp.'000)	Amount (Rp.'000)
1. Gross Income				1,423			2,541	1,119
a. Farm income				401			1,791	1,391
- Wetland paddy	a/	1.0	400.5	401	1.0	801.0	801	
- Palawija	a/	0.0	412.5	0	1.0	990.0	990	
b. Off-farm income	b/			1,022			750	(272)
2. Gross Outgo				173			731	558
a. Production Cost				164			696	532
- Wetland paddy	a/	1.0	164.3	164	1.0	395.0	395	
- Palawija	a/	0.0	86.6	0	1.0	301.1	301	
b. Tax and others	c/			8			35	27
3. Net Income (1-2)				1,250			1,810	560
4. Living Expenses	d/			1,250			1,250	0
5. Net Reserve (3-4)				0			560	560

Table 5.2 Farm Budget Analysis under With and Without Project Conditions (2/2)

(2) Jaro Bawa Irrigation Scheme
Farmer with 0.5 ha land

		Without Project			With Project			Amount
		Area (ha)	Unit Gross Income/Cost (Rp.'000/ha)	Amount (Rp.'000)	Area (ha)	Unit Gross Income/Cost (Rp.'000/ha)	Amount (Rp.'000)	(Rp.'000)
1. Gross Income				1,337			2,219	882
a. Farm income				334			1,469	1,135
- Wetland paddy	a/	0.5	667.5	334	1.0	1,468.5	1,469	
- Palawija	a/	0.0	412.5	0	0.0	990.0	0	
b. Off-farm income	b/			1,003			750	(253)
2. Gross Outgo				86			511	425
a. Production Cost				82			487	404
- Wetland paddy	a/	0.5	164.3	82	1.0	486.6	487	
- Palawija	a/	0.0	86.6	0	0.0	301.1	0	
b. Tax and others	c/			4			24	20
3. Net Income (1-2)				1,250			1,708	457
4. Living Expenses	d/			1,250			1,250	0
5. Net Reserve (3-4)				0			457	457

a/: Estimated based on Tables 5.3 and 5.4
b/: Off-farm income of Rp. 750,000 which is taken for with project condition is estimated based on the preliminary study results of Riam Kanan Project Post-beneficiary Evaluation and Monitoring Survey 1988, Kyoto University, Japan. Under without project condition, Rp. 272,000 and Rp. 253,000 are added to the estimated Rp. 750,000 for the Rawa Negara Drainage Scheme and Jaro Bawa Irrigation Scheme, respectively, on the assumption that the amount of net income would be equal to that of living expenses.
c/: 5% of production cost
d/: Estimated based on Statistical Yearbook of Indonesia 1986, CBS

Table 5.3 Crop Budget per Hectare under Without Project Condition (Financial Prices)

Item	Unit	(1) Wetland Paddy						(2) Palawija Crops (Mungbeans)		
		(i) Existing Irrigation Scheme			(ii) Existing Drainage and Polder					
		Q'ty	Price (Rp.)	Amount ('000Rp)	Q'ty	Price (Rp.)	Amount ('000Rp)	Q'ty	Price (Rp.)	Amount ('000Rp)
A. Gross Income										
- Yield	(ton)	3.5	267,000	934.5	1.5	267,000	400.5	0.5	825,000	412.5
B. Production Cost										
1) Farm Input										
- Seed	(kg)	25	270	6.8	20	270	5.4	25	900	22.5
- Fertilizer										
Urea	(kg)	100	135	13.5	0	135	0.0	0	135	0.0
TSP	(kg)	50	135	6.8	0	135	0.0	0	135	0.0
KCl	(kg)	0	135	0.0	0	135	0.0	0		0.0
- Agro-chemical										
Pesticide	(lit.)	3	5,200	15.6	0	5,200	0.0	0	5,200	0.0
Rodenticide	(kg)	3	1,500	4.5	0	1,500	0.0	0		0.0
(Sub-Total)				47.1			5.4			22.5
2) Labour Requirement (m/d)										
- Family Labour		84	0	0.0	72	0	0.0	30	0	0.0
- Hired Labour		56	3,000	168.0	48	3,000	144.0	20	3,000	60.0
(Sub-Total)				168.0			144.0			60.0
3) Miscelloneous										
- % of Sub-Total 1) and 2)		10		21.5	10		14.9	5		4.1
Total Production Cost				236.6			164.3			86.6
C. Net Return				697.9			236.2			325.9

Table 5.4 Crop Budget per Hectare under the With Project Condition (Financial Prices)

Item	Unit	(1) Wetland Paddy						(2) Palawija Crops (Mungbeans)		
		(i) Existing Irrigation Scheme			(ii) Existing Drainage and Polder					
		Q'ty	Price (Rp.)	Amount ('000Rp)	Q'ty	Price (Rp.)	Amount ('000Rp)	Q'ty	Price (Rp.)	Amount ('000Rp)
A. Gross Income										
- Yield	(ton)	5.5	267,000	1,468.5	3.0	267,000	801.0	1.2	825,000	990.0
B. Production Cost										
1) Farm Input										
- Seed	(kg)	40	270	10.8	25	270	6.8	40	900	36.0
- Fertilizer										
Urea	(kg)	200	135	27.0	100	135	13.5	100	135	13.5
TSP	(kg)	150	135	20.3	50	135	6.8	100	135	13.5
KCl	(kg)	100	135	13.5	0	135	0.0	10	135	1.4
- Agro-chemical										
Pesticide	(lit.)	3	5,200	15.6	3	5,200	15.6	2	5,200	10.4
Rodenticide	(kg)	3	1,500	4.5	3	1,500	4.5	2	5,200	10.4
(Sub-Total)				91.7			47.1			74.8
2) Labour Requirement (m/d)										
- Family Labour		126	0	0.0	96	0	0.0	66	0	0.0
- Hired Labour		84	3,000	252.0	64	3,000	192.0	44	3,000	132.0
(Sub-Total)				252.0			192.0			132.0
3) Animal Power (t/d)		15	8,000	120.0	15	8,000	120.0	10	8,000	80.0
4) Miscelloneous										
- % of Sub-Total 1), 2) and 3)		5		23.2	10		35.9	5		14.3
Total Production Cost				486.8			395.0			301.1
C. Net Return				981.7			406.0			688.9