TABLE-VIII.15 RIVER FACILITIES DAMAGE DUE TO TYPHOON 'PEPANG'

(September 18, 1979)

Name of River Control Project	Amount (Pesos)	Remarks
Tagpo R.C. (Tuburan-Bonga)		
a) Sta. 0.240 - 0.984	120,000	Portion of existing earthdike washed out, 309 L.M.
b) Sta. 0.540 - 0.586	7,000	Scouring of earthdike on river side, 50 L.M.
c) Sta. 0.315 - 0.904	8,400	Portion of rio-rao destroyed, 18 L.M.
Albay R.C. (Busac-Aloman)		
a) Sta. 2.520 - 2.540	2,800	Scouring of portions of earthdike on riversides, 201 L.M.
b) Sta. 12.340 - 13.670	88,000	Portion of existing earthdike washed out, 125 L.M.
c) Sta. 11.340 - 12.365	9,400	Scouring of earthdike on river side, 251 L.M.
Albay R.C. (Mayao-Busac)		
a) Sta. 16.160 - 16.180	6,790	Portion of existing earthdike washed out, 20 L.M.
Albay R.C. (San Agustin-Sta. Cruz)		
a) Sta. 0.118 - 0.400	34,700	Portion of northdike washed out, 40 L.M.
b) Sta. 0.430 - 0.595	16,500	Portion of earthdike scoured, 80 L.M.
Albay R.C. (Bongoran-San Juan)		
a) Sta. 16.980 - 18.620	60,000	Portion of earthdike washed out, 160 L.M.
Gamut R.C. (Binatagan)		
a) Sta. 0.820 - 1.075	45,000	Portion of earthdike washed out, 85 L.M.
Albay R.C. (Calisac)		
a) Sta. 0.840 - 6.880	42,000	Portion of earthdike washed out, 80 L.M.
Albay R.C. (Quinale)		
a) Sta. 12.760 - 12.790	16,000	Portion of earthdike washed out, 30 L.M.

- to be continued -

Name of River Control Project	Amount (Pesos)	Remarks
Albay R.C. (Maninila)		
a) Sta. 1.110 - 1.700	70,000	Portion of earthdike washed out, 540 L.M.
Albay R.C. (Bacolod)	275,000	Earthdike destroyed, 1,000 L.M.
Total	801,590	

TABLE-VIII.16 RIVER FACILITIES DAMAGE DUE TO TYPHOON 'KADING'

(October 26, 1978)

Name of River Control Project	Amount (Pesos)	Remarks
Tagpo R.C. (Bonga) Sta. 0.000-0.060	67,000	Portion of riprap, 60 L.M. and side slopes of erthdike dislodged, 80 L.M.
Albay R.C. (Busac-Alomon) Sta. 11.640-11.690 Sta. 12.170-12.320	80,000	Portion of earthdike at left sect. washed out, 50 L.M. side slopes of earthdike scoured, 50 L.M.
Albay R.C. (Calisac) Sta. 6.150-6.180	40,000	Portion of existing earthdike washed out, 30 L.M.
Albay R.C. (Busao-Talongog) Sta. 0.150-0.175	46,500	Portion of riprap washed out, 25 L.M.
San Vicente R.C. Sta. 0.000	93,500	Boulder dike washed out, 100 L.M.
Tanawan-Nagas R.C.	133,000	Boulder and earthdike washed out.
Total	460,000	

TABLE-VIII.17 RIVER FACILITIES DAMAGE DUE TO TYPHOON 'ELANG'

(July 16-17, 1977)

Name of River Control Project	Amount (Pesos)	Remarks
Quirangay R.C.	50,000	Mud flows from Mt. Mayon which silted the Quirangay River.
Tagpo R.C. (Bonga) Sta. 0.869-0.870 Sta. 0.000-0.980	20,000	Portion of riprap scoured, 10 L.M., side slopes of earthdike dislodged, 980 L.M.
Oas R.C. Sta. 12.800-12.860	30,000	Foundation of riprap dislodged. 60 L.M., portion of earthdike destroyed.
Ligao-Gamut-Nasisi R.C.	15,000	Foundation of boulder dike, 40 L.M. at PNR dike crossing scoured and portion of road dike overtopped.
Total	115,000	

TABLE-VIII.18 RIVER FACILITIES DAMAGE DUE TO TYPHOON 'SISANG'

(December 26-27, 1975)

Name of River Control Project	Amount (Pesos)	Remarks
Malinao R.C.	15,000	Existing earthdike scoured including riprap, 20 L.M.
Tagas R.C.	30,000	Existing grouted bank revetments destroyed and foundation scoured.
Ligao-Gamut R.C.	60,000	Water course diverted to a new direction thus affects the adjoining ricefield.
Tuburan R.C.	50,000	Bank of adjoining private properties along the river is heavily damaged due to overflooding.
Guinobatan R.C.	50,000	Foundation of existing grouted bank revetment scoured, 160 L.M.
Bobongsoran R.C.	10,000	The river changed its course and existing brush dike washed out, 40 L.M.
Busac R.C.	10,000	Earthdike and revetments scoured, 30 L.M.
Libon R.C. (Carisac)	15,000	Existing earthdike totally damaged, 60 L.M.
Libon R.C. (Paclas)	250,000	The river change its course thus causing damaged to ricefield and other agricultural land.
Sun Agustin R.C.	10,000	Existing earthdike totally damaged, 40 L.M.
Total	500,000	

TABLE-VIII.19 RIVER FACILITIES DAMAGE DUE TO TYPHOON

(LEGAZPI CITY)

Name of River Control Project	Amount (Pesos)	Remarks
Typhoon 'Pepang' Sep.18,1979		
a) Pawa-Burabod-Bonga (Sabo Works)	40,000	A portion of the dike was destroyed.
b) Pawa-Burabod-Bonga	130,000	A portion of the dike, foundation, grouted riprap and concrete pavement of top bank was destroyed.
Typhoon 'Kading' Oct.26,1978		
a) Yawa-San Roque (Sta. 0.120-0.170)	70,000	Portions of foundations were scoured, partially damaged side slope, portions of retaining walls cracked.
b) Yawa-San Roque (Sta. 0.040-0.070)	30,000	Scoured foundations, partially damaged grouted riprap.
Typhoon 'Weling' Sep.26,1978		
a) Pawa-Burabod-Bonga (Sta. 0.520-0.560) (Sta. 0.180-0.250)	100,000	Foundations were scoured, partially washed out, riprap partially washed out.
Typhoon 'Aring' Dec.5,1976		
a) Pawa-Burabod-Bonga (Sta. 0.100-0.200)	50,000	Destroyed grouted riprap, collapsed side slopes, washed out foundation.
Typhoon 'Sisang' Dec.26-27,1975		
a) Pawa-Burabod-Bonga	60,000	24 M. grouted riprap collapsed and washed out, 50 M. foundation washed out, 100 M. earthdike destroyed and washed out, construction materials washed out.

TABLE-VIII.20 FLOOD DAMAGE TO IRRIGATION FACILITIES

TYPHOON "PEPANG" IN SEP. 1979

(Unit: Pesos)

River Basin	Existing System	Measured Damage Canal	Measured Damage Structure	Measured Damage Total	Present Worth At the 1979 price level	Estimated Damage At the 1979 price level
The Quinali (A) River Basin						
	Nasisi-Mahaba	Nil	103,000	103,000	103,000	
	South Quinali	-	-	105,900	105,900	
	Quinali (Left & Right)	-	-	53,000	53,000	
	San Isidro	-	-	27,500	27,500	
	Agos Sta. Cruz	-	-	10,600	10,600	
	San Agustin	-	-	31,800	31,800	
	Sub total			331,800	331,800	432,000
The Quinali (B) River Basin						
	Tuliw-Pawa	-	-	14,100	14,100	
				14,100	14,100	18,000
The Yawa River Basin						
	Nil			Nil		Nil
The East and North-East Area of Mayon Volcano						
	Sta. Teresa	-	-	32,700	32,700	
					32,700	44,000
	Total					494,000

TABLE-VIII.21 FLOOD DAMAGE TO IRRIGATION FACILITIES

TYPHOON "WELING" IN SEP. 1978

(Unit: Pesos)

River Basin	Existing System	Measured Damage Canal	Measured Damage Structure	Measured Damage Total	Present Worth At the 1979 price level	Estimated Dama At the 1979 price level
The Quinali (A) River Basin						
	South Quinali	10,900	54,100	65,000	72,900	
	Quinali (Left & Right)	7,300	52,200	59,500	66,700	
	San Agustin	3,600	33,400	37,000	41,000	
	San Isidro	11,500	22,400	33,900	38,000	
	Sub total	33,300	162,100	195,400	218,600	285,000
The Quinali (B) River Basin						
	Tuliw-Pawa	700	19,800	20,500	23,000	
				20,500	23,000	30,000
The Yawa River Basin						
	Nil			Nil		Nil
The East and North-East Area of Mayon Volcano						
	San Antonio	2,900	52,100	55,000	61,500	
	Sta. Teresa	1,100	14,900	16,000	18,500	
	Sub total	4,000	67,000	71,000	80,000	104,000
	Total					419,000

TABLE-VIII.22 FLOOD DAMAGE TO IRRIGATION FACILITIES

TYPHOON "KADING" IN OCT. 1978

(Unit: Pesos)

River Basin	Existing System	Measured Damage Canal	Structure	Total	Present Worth At the 1979 price level	Estimated Damage At the 1979 price level
The Quinali (A) River Basin						
	Nasisi-Mahaba	-	-	10,000	11,200	
	South Quinali	Nil	50,000	50,000	56,100	
	San Isidro	Nil	20,000	20,000	22,400	
	Quinali (Left & Right)	Nil	59,600	59,600	66,800	
	San Agustin	Nil	20,500	20,500	23,000	
	Sub total	-	-	160,100	179,500	235,000
The Quinali (B) River Basin						
	Tuliw-Pawa	Nil	15,000	15,000	16,800	
				15,000	16,800	22,000
The Yawa River Basin						
	Nil			Nil		Nil
The East and North-East Area of Mayon Volcano						
	Sta. Teresa	12,000	Nil	12,000	13,400	
	San Antonio	-	-	30,000	33,600	
	Sub total			42,000	47,000	61,000
	U.S.A.I.D. Fund			12,900	14,400	
					14,400	19,000
	Total					337,000

TABLE-VIII.23 FLOOD DAMAGE TO IRRIGATION FACILITIES

TYPHOON "UNDING" IN NOV. 1977

(Unit: Pesos)

River Basin	Existing System	Measured Damage Canal	Measured Damage Structure	Measured Damage Total	Present Worth At the 1979 price level	Estimated Damag At the 1979 price level
The Quinali (A) River Basin						
	Nasisi-Mahaba	5,000	5,000	10,000	12,600	
	San Agustin	-	-	19,400	24,400	
	San Isidro	-	-	7,300	9,200	
	Quinali (Left & Right)	-		29,800	37,500	
	South Quinali	-	-	10,500	13,200	
	Agos Sta. Cruz	-	-	4,500	5,600	
	Sub total	-	-	81,500	102,500	134,000
The Quinali (B) River Basin						
	Nil			Nil		Nil
The Yawa River Basin						
	Nil			Nil		Nil
The East and North-East Area of Mayon Volcano						
	Sta. Teresa	-	-	3,900	4,900	
	San Antonio	-	-	4,600	5,800	
	Sub total	-	-	8,500	10,700	14,000
	U.S.A.I.D. Fund			14,100	17,700	
					17,700	23,000
	Total					171,000

TABLE-VIII.24 FLOOD DAMAGE TO IRRIGATION FACILITIES

TYPHOON "DIDANG" IN MAY, 1976

(Unit: Pesos)

River Basin	Existing System	Measured Damage Canal	Measured Damage Structure	Measured Damage Total	Present Worth At the 1979 price level	Estimated Damage *1 At the 1979 price level
The Quinali (A) River Basin						
	Nasisi-Mahaba	8,300	3,900	12,200	17,200	
	South Quinali	5,900	5,850	11,750	16,600	
	Quinali (Left & Right)	2,550	Nil	2,550	3,600	
	Sub total	16,750	9,750	26,500	37,400	50,000
The Quinali (B) River Basin						
	Tuliw-Pawa	850	2,700	3,550	5,000	
	Tanawan	1,800	1,550	3,350	4,700	
	Sub total	2,650	4,250	6,900	9,700	13,000
The Yawa River Basin						
	Nil			Nil		Nil
The East and North-East Area of Mayon Volcano						
	San Antonio	Nil	2,600	2,600	3,700	
				2,600	3,700	5,000
	U.S.A.I.D. Fund			19,700	27,700	
					27,700	36,000
	Total					104,000

Note: *1 Estimated damage including damages to temporary irrigation facilities on private rice field is estimated to be about 130% of the measured damage.

TABLE-VIII.25 FLOOD DAMAGE TO IRRIGATION FACILITIES

TYPHOON "SISANG" IN DEC. 1975

(Unit: Pesos)

River Basin	Existing System	Measured Damage Canal	Measured Damage Structure	Measured Damage Total	Present Worth At the 1979 price level	Estimated Damage *1 At the 1979 price level
The Quinali (A) River Basin						
	Agos Sta. Cruz	Nil	17,600	17,600	27,800	
	Quinali (Left & Right)	2,400	5,400	7,800	12,300	
	South Quinali	7,200	42,000	49,200	77,700	
	Sub total	9,600	65,000	74,600	117,800	153,000
The Quinali (B) River Basin						
	Tanawan	400	1,300	1,700	2,700	
				1,700	2,700	3,500
The Yawa River Basin						
	Nil			Nil		Nil
The East and North-East Area of Mayon Volcano						
	Nil			Nil		Nil
	Total					156,500

Note: *1 Estimated damage including damages to temporary irrigation facilities on private rice field is estimated to be about 130% of the measured damage.

TABLE-IX.1 SUMMARY OF CONSTRUCTION COST

	Amount (Pesos)
1. Sabo Works	
1) The Quinali (A) River	
The Quirangay River	P 5,632,300
The Tumpa River	238,400
The Maninila River	982,400
The Masarawag River	12,619,000
The Ogsong River	12,478,100
The Nasisi River	26,417,200
	58,367,000
2) The Quinali (B) River	
The Buang River	2,984,000
	2,984,000
3) The Yawa River	
The Anuling River	2,001,800
The Budiao River	10,713,900
The Pawa-Burabod River	13,827,400
	26,543,100
2. River Improvement Works	
The Quinali (A) River	655,511,000
The Quinali (B) River	229,497,000
The Yawa River	37,165,000
The Quinali(A) River (Diversion)	831,530,000
3. Irrigation Works	
The Quinali (A) River	70,367,000
The Quinali (B) River	27,973,000

TABLE-IX.2

DETAILED COST ESTIMATE, SABO WORKS

THE QUIRANGAY RIVER

Item	Quantity	Unit Price	Amount (Pesos)
1. Contract Cost			
1) Direct Cost			
Spur Dike			
Excavation, in common	5,400 cu.m.	16.00	86,400
Embankment	2,700 cu.m.	22.00	59,400
Concrete, type B	2,280 cu.m.	329.00	750,100
Wet-rubble masonry	4,500 sq.m.	78.00	351,000
Cobble stone	1,950 cu.m.	41.00	78,000
Jetty			
Excavation, in common	8,100 cu.m.	16.00	129,600
Embankment	4,050 cu.m.	22.00	89,100
Concrete, type B	2,930 cu.m.	329.00	964,000
Wet-rubble masonry	6,750 sq.m.	78.00	526,500
Cobble stone	2,930 cu.m.	41.00	120,100
Coconut trunk	2,800 lin.m.	21.00	58,800
Sub-Total			3,213,000
2) General			321,300
3) Contractor's Profit			353,400
4) Contractor's Tax			106,000
4) Surcharges			176,700
Contract Cost			4,170,400
2. Acquisition/Right of Way	0.9 ha	2,500.00	2,300
3. Engineering Cost			417,000
4. Administration Cost			208,500
5. Contingency (Physical)			834,100
Total			5,632,300

TABLE-IX.3

DETAILED COST ESTIMATE, SABO WORKS

THE TUMPA RIVER

Item	Quantity	Unit Price	Amount (Pesos)
1. Contract Cost			
1) Direct Cost			
Excavation, in common	3,250 cu.m.	16.00	52,000
Coconut trunk	4,000 lin.m.	21.00	84,000
Sub-Total			136,000
2) General			13,600
3) Contractor's Profit			15,000
4) Contractor's Tax			4,500
4) Surcharges			7,500
Contract Cost			176,600
2. Acquisition/Right of Way			
3. Engineering Cost			17,700
4. Administration Cost			8,800
5. Contingency (Physical)			35,300
Total			238,400

TABLE-IX.4

DETAILED COST ESTIMATE, SABO WORKS

THE MANINILA RIVER

Item	Quantity	Unit Price	Amount (Pesos)
1. Contract Cost			
1) Direct Cost			
Rubble stone	3,440 cu.m.	31.00	106,600
Coconut trunk	21,530 lin.m.	21.00	452,100
Sub-total			558,700
2) General			55,900
3) Contractor's Profit			61,500
4) Contractor's Tax			18,400
4) Surcharges			30,700
Contract Cost			725,200
2. Acquisition/Right of Way	1.35 ha	2,500.00	3,400
3. Engineering Cost			72,500
4. Administration Cost			36,300
5. Contingency (Physical)			145,000
Total			982,400

TABLE-IX.5

DETAILED COST ESTIMATE, SABO WORKS

THE MASARAWAG RIVER

Item	Quantity	Unit Price	Amount (Pesos)
1. Contract Cost			
1) Direct Cost			
Spur Dike at No.1 Site			
Excavation, in common	6,800 cu.m.	16.00	108,800
Embankment	3,420 cu.m.	22.00	75,200
Concrete, type B	2,470 cu.m.	329.00	816,600
Cobble stone	2,470 cu.m.	41.00	101,300
Wet-rubble masonry	5,700 sq.m.	78.00	444,600
Jetty at No.1 Site			
Excavation, in common	5,400 cu.m.	16.00	86,400
Embankment	2,700 cu.m.	22.00	59,400
Concrete, type B	1,950 cu.m.	329.00	641,600
Cobble stone	1,950 cu.m.	41.00	80,000
Wet-rubble masonry	4,500 sq.m.	78.00	351,000
Coconut-trunk	2,800 lin.m.	21.00	58,800
Spur Dike at No.2 Site			
Excavation, in common	2,700 cu.m.	16.00	43,200
Embankment	1,350 cu.m.	22.00	29,700
Concrete, type B	980 cu.m.	329.00	322,400
Cobble stone	980 cu.m.	41.00	40,200
Wet-rubble masonry	2,250 sq.m.	78.00	175,500
Jetty at No.2 Site			
Excavation, in common	4,500 cu.m.	16.00	72,000
Embankment	2,250 cu.m.	22.00	49,500
Concrete, type B	1,630 cu.m.	329.00	536,300
Cobble stone	1,630 cu.m.	41.00	66,800
Wet-rubble masonry	3,750 sq.m.	78.00	292,500
Coconut trunk	950 lin.m.	21.00	20,000

(to be continued)

Item	Quantity	Unit Price	Amount (Pesos)
Spur Dike at No.3 Site			
Excavation, in common	10,800 cu.m.	16.00	172,800
Embankment	5,400 cu.m.	22.00	118,200
Concrete, type B	3,900 cu.m.	329.00	1,283,100
Cobble stone	3,900 cu.m.	41.00	159,900
Wet-rubble masonry	9,000 sq.m.	78.00	702,000
Consolidation Works (Cribwork) at No.4 Site			
Rubble stone	760 cu.m.	31.00	23,600
Coconut trunk	4,800 lin.m.	21.00	100,800
Consolidation Works (Cribwork) at No.5 Site			
Rubble stone	1,020 cu.m.	31.00	31,600
Coconut trunk	6,400 lin.m.	21.00	134,400
Sub-total			7,198,200
2) General			719,800
3) Contractor's Profit			791,800
4) Contractor's Tax			237,500
4) Surcharges			395,900
Contract Cost			9,343,200
2. Acquisition/Right of Way	2.261 ha	2,500.00	5,700
3. Engineering Cost			934,300
4. Administration Cost			467,200
5. Contingency (Physical)			1,868,600
Total			12,619,000

TABLE-IX.6

DETAILED COST ESTIMATE, SABO WORKS

THE OGSONG RIVER (THE NABONTON CREEK)

Item	Quantity	Unit Price	Amount (Pesos)
1. Contract Cost			
1) Direct Cost			
Jetty at No.1 Site			
Excavation, in common	16,200 cu.m.	16.00	259,200
Embankment	8,100 cu.m.	22.00	178,200
Concrete, type B	5,850 cu.m.	329.00	1,924,700
Cobble stone	5,850 cu.m.	41.00	239,900
Wet-rubble masonry	13,500 sq.m.	78.00	1,053,000
Coconut trunk	8,500 lin.m.	21.00	178,500
Spur Dike at No.1 Site			
Excavation, in common	6,480 cu.m.	16.00	103,700
Embankment	3,240 cu.m.	22.00	71,300
Concrete, type B	2,340 cu.m.	329.00	769,900
Cobble stone	2,350 cu.m.	41.00	96,400
Wet-rubble masonry	5,400 sq.m.	78.00	421,200
Channel Works at No.2 & No.3 Site			
Excavation, in common	7,740 cu.m.	16.00	123,800
Embankment	3,870 cu.m.	22.00	85,100
Concrete, type B	2,800 cu.m.	329.00	921,200
Cobble stone	3,300 cu.m.	41.00	135,300
Wet-rubble masonry	5,670 sq.m.	78.00	442,300
Coconut trunk	1,120 lin.m.	21.00	23,500
Groundsill (Cribwork) at No.4 Site			
Rubble stone	560 cu.m.	31.00	17,400
Coconut trunk	3,520 lin.m.	21.00	73,900
Sub-total			7,118,500
2) General			711,900
3) Contractor's Profit			783,000
4) Contractor's Tax			234,900
4) Surcharges			391,500

(to be continued)

Item	Quantity	Unit Price	Amount (Pesos)
Contract Cost			9,239,800
2. Acquisition/Right of Way	1.719 ha	2,500.00	4,300
3. Engineering Cost			924,000
4. Administration Cost			462,000
5. Contingency (Physical)			1,848,000
Total			12,478,100

TABLE-IX.7

DETAILED COST ESTIMATE, SABO WORKS

THE NASISI RIVER

Item	Quantity	Unit Price	Amount (Pesos)
1. Contract Cost			
1) Direct Cost			
Consolidation Dam at No.1 Site			
Excavation, in common	5,600 cu.m.	16.00	89,600
Rubble concrete	5,700 cu.m.	286.00	1,630,200
Wet-rubble masonry	2,100 sq.m.	78.00	163,800
Coconut trunk	8,950 lin.m.	21.00	188,000
Cobble stone	2,180 cu.m.	41.00	89,400
Concrete in jetty, type B	910 cu.m.	329.00	299,400
Consolidation Dam at No.2 Site			
Excavation, in common	2,880 cu.m.	16.00	46,100
Rubble concrete	2,960 cu.m.	286.00	846,600
Wet-rubble masonry	2,100 sq.m.	78.00	163,800
Coconut trunk	7,350 lin.m.	21.00	154,400
Cobble stone	1,930 cu.m.	41.00	79,100
Concrete in jetty, type B	910 cu.m.	329.00	299,400
Spur Dike at No.3 Site			
Excavation, in common	7,560 cu.m.	16.00	121,000
Embankment	3,780 cu.m.	22.00	83,200
Concrete, type B	2,730 cu.m.	329.00	898,200
Cobble stone	2,730 cu.m.	41.00	111,900
Wet-rubble masonry	6,300 sq.m.	78.00	491,400
Groin (A-Type) at No.4 Site			
Excavation, in common	7,200 cu.m.	16.00	115,200
Concrete, type B	1,170 cu.m.	282.00	329,900
Cobble stone	1,980 cu.m.	41.00	81,200
Wet-rubble masonry	2,700 sq.m.	78.00	210,600

(to be continued)

Item	Quantity	Unit Price	Amount (Pesos)
Masonry Levee at No.4 Site			
Embankment	29,700 cu.m.	22.00	653,400
Concrete, type B	2,060 cu.m.	282.00	580,900
Wet-rubble masonry	10,890 sq.m.	78.00	849,400
Groin (A-Type) at No.5 Site			
Excavation, in common	12,400 cu.m.	16.00	198,400
Concrete, type B	2,020 cu.m.	282.00	569,600
Cobble stone	3,410 cu.m.	41.00	139,800
Wet-rubble masonry	4,650 sq.m.	78.00	362,700
Masonry Levee at No.5 Site			
Embankment	12,000 cu.m.	22.00	264,000
Concrete, type B	875 cu.m.	282.00	246,800
Wet-rubble masonry	4,650 sq.m.	78.00	362,700
River Bed Excavation at No.5 Site			
Excavation, in common	120,000 cu.m.	16.00	1,920,000
Consolidation Dam at No.6 Site			
Concrete, type B	600 cu.m.	282.00	169,200
Wet-rubble masonry	450 sq.m.	78.00	35,100
Coconut trunk	2,540 lin.m.	21.00	53,300
Cobble stone	300 cu.m.	41.00	12,300
Groin (B-Type) at No.7 Site			
Excavation, in common	3,960 cu.m.	16.00	63,400
Concrete, type B	1,400 cu.m.	282.00	394,800
Cobble stone	2,560 cu.m.	41.00	105,000
Wet-rubble masonry	2,200 sq.m.	78.00	171,600
Coconut trunk	6,400 lin.m.	21.00	134,400
Groundsill (Cribwork) at No.7 Site			
Cobble stone	1,020 cu.m.	41.00	41,800
Coconut trunk	6,400 lin.m.	21.00	134,400

(to be continued)

Item	Quantity	Unit Price	Amount (Pesos)
Widening of Nasis Bridge at No.5 Site			
Excavation, in common	7,800 cu.m.	16.00	124,800
Concrete, type B	2,400 cu.m.	282.00	676,800
Cobble stone	3,000 cu.m.	41.00	123,000
Wet-rubble masonry	1,600 sq.m.	78.00	124,800
Coconut trunk	2,600 lin.m.	21.00	54,600
Sub-total			15,059,400
2) General			1,505,900
3) Contractor's Profit			1,656,500
4) Contractor's Tax			497,000
4) Surcharges			828,300
Contract Cost			19,547,100
2. Acquisition/Right of Way	11.445 ha	2,500.00	28,600
3. Engineering Cost			1,954,700
4. Administration Cost			977,400
5. Contingency (Physical)			3,909,400
Total			26,417,200

TABLE-IX.8

DETAILED COST ESTIMATE, SABO WORKS

THE BUANG RIVER

Item	Quantity	Unit Price	Amount (Pesos)
1. Contract Cost			
1) Direct Cost			
Sabo Dam			
Excavation, in common	600 cu.m.	16.00	9,600
Excavation, in rock	400 cu.m.	70.00	28,000
Concrete, type A	230 cu.m.	356.00	81,900
Rubble concrete	2,070 cu.m.	286.00	592,000
Wet-rubble masonry	1,400 sq.m.	78.00	109,200
Cobble stone	610 cu.m.	41.00	25,000
Consolidation Dam at No.1 & No.3 Site			
Excavation, in common	1,000 cu.m.	16.00	16,000
Rubble concrete	1,350 cu.m.	286.00	386,100
Wet-rubble masonry	1,750 sq.m.	78.00	136,500
Cobble stone	760 cu.m.	41.00	31,200
Consolidation Dam at No.3 No.4 Site			
Excavation, in common	500 cu.m.	16.00	8,000
Rubble concrete	680 cu.m.	286.00	194,500
Wet-rubble masonry	880 sq.m.	78.00	68,600
Cobble stone	380 cu.m.	41.00	15,600
Sub-total			1,702,200
2) General			170,200
3) Contractor's Profit			187,200
4) Contractor's Tax			56,200
5) Surcharges			93,600
Contract Cost			2,209,400

(to be continued)

Item	Quantity	Unit Price	Amount (Pesos)
2. Acquisition/Right of Way	0.38 ha.	2,500.00	1,000
3. Engineering Cost			220,900
4. Administration Cost			110,500
5. Contingency (Physical)			441,900
Total			2,983,700

TABLE-IX.9

DETAILED COST ESTIMATE, SABO WORKS

THE ANULING RIVER

Item	Quantity	Unit Price	Amount (Pesos)
1. Contract Cost			
1) Direct Cost			
Spur Dike			
Excavation, in common	4,500 cu.m.	16.00	72,000
Embankment	2,250 cu.m.	22.00	49,500
Concrete, type A	1,630 cu.m.	329.00	536,300
Cobble stone	1,630 cu.m.	41.00	66,800
Wet-rubble masonry	3,750 sq.m.	78.00	292,500
Cribwork			
Coconut trunk	4,800 lin.m.	21.00	100,800
Rubble stone	770 cu.m.	31.00	23,900
Sub-total			1,141,800
2) General			114,200
3) Contractor's Profit			125,600
4) Contractor's Tax			37,700
5) Surcharges			62,800
Contract Cost			1,482,100
2. Acquisition/Right of Way	0.4 ha.	2,500.00	1,000
3. Engineering Cost			148,200
4. Administration Cost			74,100
5. Contingency (Physical)			296,400
Total			2,001,800

TABLE-IX.10

DETAILED COST ESTIMATE, SABO WORKS

THE BUDIAO RIVER

Item	Quantity	Unit Price	Amount (Pesos)
1. Contract Cost			
1) Direct Cost			
Jetty			
Excavation, in common	16,200 cu.m.	16.00	259,200
Embankment	8,100 cu.m.	22.00	178,200
Concrete, type B	5,850 cu.m.	329.00	1,924,700
Cobble stone	5,850 cu.m.	41.00	239,900
Wet-rubble masonry	13,500 sq.m.	78.00	1,053,000
Coconut trunk	950 lin.m.	21.00	20,000
Spur Dike			
Excavation, in common	10,800 cu.m.	16.00	172,800
Embankment	5,400 cu.m.	22.00	118,800
Concrete, type B	3,900 cu.m.	329.00	1,283,100
Cabble stone	3,900 cu.m.	41.00	159,900
Wet-rubble masonry	9,000 sq.m.	78.00	702,000
Sub-total			6,111,600
2) General			611,200
3) Contractor's Profit			672,300
4) Contractor's Tax			201,700
5) Surcharges			336,100
Contract Cost			7,932,900
2. Aquisition/Right of Way	1.8 ha.	2,500.00	4,500
3. Engineering Cost			793,300
4. Administration Cost			396,600
5. Contingency (Physical)			1,586,600
Total			10,713,900

TABLE-IX.11

DETAILED COST ESTIMATE, SABO WORKS

THE PAWA-BURABOD RIVER

Item	Quantity	Unit Price	Amount (Pesos)
1. Contract Cost			
1) Direct Cost			
Sabo Dam at No.1 Site			
Excavation, in common	11,600 cu.m.	16.00	185,600
Excavation, in rock	280 cu.m.	70.00	26,600
Backfill	840 cu.m.	19.00	16,000
Concrete, type A	550 cu.m.	356.00	195,800
Rubble concrete	5,840 cu.m.	286.00	1,670,200
Spur Dike at No.2 Site			
Excavation, in common	1,260 cu.m.	16.00	20,200
Embankment	630 cu.m.	22.00	13,900
Concrete, type B	450 cu.m.	329.00	148,100
Cobble stone	450 cu.m.	41.00	18,500
Wet-rubble masonry	1,050 sq.m.	78.00	81,900
Cribwork at No.2 Site			
Coconut trunk	26,240 lin.m.	21.00	551,000
Rubble stone	4,200 cu.m.	31.00	130,200
Spur Dike at No.3 Site			
Excavation, in common	21,780 cu.m.	16.00	348,500
Embankment	10,890 cu.m.	22.00	239,600
Concrete, type B	8,470 cu.m.	329.00	2,786,600
Cobble stone	7,870 cu.m.	41.00	322,700
Wet-rubble masonry	14,520 sq.m.	78.00	1,132,600
Sub-total			7,888,000

(to be continued)

	Item	Quantity	Unit Price	Amount (Pesos)
	2) General			788,800
	3) Contractor's Profit			867,700
	4) Contractor's Tax			260,300
	5) Surcharges			433,800
	Contract Cost			10,238,600
2.	Acquisition/Right of Way	2.11 ha.	2,500.00	5,300
3.	Engineering Cost			1,023,900
4.	Administration Cost			511,900
5.	Contingency (Physical)			2,047,700
	Total			13,827,400

TABLE-IX.12

DETAILED COST ESTIMATE, RIVER IMPROVEMENT WORKS

THE QUINALI (A) RIVER

Item	Quantity	Unit Price	Amount (Pesos)
1. Contract Cost			
1) Direct Cost			
The Quinali (A) River			
Excavation, in common	1,738,000 cu.m.	38.00	66,044,000
Embankment	3,706,000 cu.m.	19.00	70,414,000
Sod facing	1,493,000 sq.m.	20.00	29,860,000
Slope protection	299,000 sq.m.	78.00	23,322,000
The Talisay River			
Excavation, in common	31,000 cu.m.	23.00	713,000
Embankment	1,327,000 cu.m.	19.00	25,213,000
Sod facing	640,000 sq.m.	20.00	12,800,000
Slope protection	128,000 sq.m.	78.00	9,984,000
The Nasisi River			
Excavation, in common	901,000 cu.m.	35.00	31,535,000
Embankment	252,000 cu.m.	19.00	4,788,000
Sod facing	267,000 sq.m.	20.00	5,340,000
Slope protection	53,000 sq.m.	78.00	4,134,000
Removal of Existing Head Works			
South-Quinali head works (Concrete 260 m^3)			30,000
San Agustin head works (Concrete 230 m^3)			25,000
Agus-Sta. Cruz head works (Concrete 200 m^3)			22,000
Relating Structures			
Sluiceway (10 Nos.)			556,000

(to be continued)

Item	Quantity	Unit Price	Amount (Pesos)
Infrastructure			
The Quinali (A) River			
Matacon Bridge (ℓ=359 m)			12,565,000
Quinali Bridge (ℓ=318 m)			11,130,000
Tagpo Bridge (ℓ=196 m)			6,860,000
Busac Bridge (ℓ=270 m)			9,450,000
Oas Bridge (ℓ=270 m)			9,450,000
The Nasisi River			
Binatagan Bridge (ℓ=94 m)			3,290,000
Gamot Bridge (ℓ=94 m)			3,290,000
The Talisay River			
Bacolod Bridge (ℓ=200 m)			7,000,000
Bailey Bridge (ℓ=200 m)			7,000,000
The National Railway			
Nasisi Bridge (ℓ=100 m)			1,400,000
Sub-total			356,215,000
2) General			35,622,000
3) Contractor's Profit			39,184,000
4) Contractor's Tax			11,755,000
5) Surcharges			19,592,000
Contract Cost			462,368,000
2. Acquisition/Right of Way	1,114 ha	13,000	14,482,000
3. Resettlement (Type A: 113 Nos., Type B: 322 Nos., Type C: 676 Nos.)			16,832,000
4. Engineering Cost			46,237,000
5. Administration Cost			23,118,000
6. Contingency (Physical)			92,474,000
Total			655,511,000

TABLE-IX.13

DETAILED COST ESTIMATE, RIVER IMPROVEMENT WORKS

THE QUINALI (B) RIVER

Item	Quantity	Unit Price	Amount (Pesos)
1. Contract Cost			
1) Direct Cost			
The Quinali (B) River			
Excavation, in common	1,130,000 cu.m.	35.00	39,550,000
Embankment	745,000 cu.m.	19.00	14,155,000
Sod facing	456,000 sq.m.	20.00	9,120,000
Slope protection	91,000 sq.m.	78.00	7,098,000
Balza Bridge (ℓ=270 m)			9,450,000
Labnig Bridge (ℓ=220 m)			7,700,000
The San Francisco River			
Excavation, in common	509,000 cu.m.	35.00	17,815,000
Embankment	142,000 cu.m.	19.00	2,698,000
Sod facing	236,000 sq.m.	20.00	4,290,000
Slope protection	49,000 sq.m.	78.00	3,822,000
Tuliw Bridge (ℓ=98 m)			3,430,000
The San Vicente River			
Excavation, in common	94,000 cu.m.	35.00	3,290,000
Embankment	89,000 cu.m.	19.00	1,691,000
Sod facing	136,000 sq.m.	20.00	2,720,000
Slope protection	27,000 sq.m.	78.00	2,106,000
Sub-total			128,935,000
2) General			12,894,000
3) Contractor's Profit			14,183,000
4) Contractor's Tax			4,255,000
5) Surcharges			7,091,000
Contract Cost			167,358,000

(to be continued)

Item	Quantity	Unit Price	Amount (Pesos)
2. Acquisition/Right of Way	227.3 ha	13,000	2,955,000
3. Resettlement (Type A: 4 Nos., Type B: 12 Nos., Type C: 24 Nos.)			608,000
4. Engineering Cost			16,736,000
5. Administration Cost			8,368,000
6. Contingency (Physical)			33,472,000
Total			229,497,000

TABLE-IX.14

DETAILED COST ESTIMATE, RIVER IMPROVEMENT WORKS

THE YAWA RIVER

Item	Quantity	Unit Price	Amount (Pesos)
1. Contract Cost			
1) Direct Cost			
The Yawa River			
Embankment	317,000 cu.m.	19.00	6,023,000
Sod facing	217,000 sq.m.	20.00	4,340,000
Slope protection	43,000 sq.m.	78.00	3,354,000
Infrastructure			
Yawa Bridge (ℓ=196 m)			6,860,000
Sub-total			20,577,000
2) General			2,058,000
3) Contractor's Profit			2,264,000
4) Contractor's Tax			679,000
5) Surcharges			1,132,000
Contract Cost			26,710,000
2. Acquisition/Right of Way	24.6 ha	13,000	320,000
3. Resettlement (Type A: 6 Nos., Type B: 14 Nos., Type C: 13 Nos.)			786,000
4. Engineering Cost			2,671,000
5. Administration Cost			1,336,000
6. Contingency (Physical)			5,342,000
Total			37,165,000

TABLE-IX.15

DETAILED COST ESTIMATE, RIVER IMPROVEMENT WORKS

THE QUINALI (A) RIVER

DIVERSION TO TALISAY RIVER

Item	Quantity	Unit Price	Amount (Pesos)
1. Contract Cost			
1) Direct Cost			
The Quinali (A) River			
Excavation, in common	211,000 cu.m.	38.00	8,018,000
Embankment	2,006,000 cu.m.	19.00	38,114,000
Sod facing	833,000 sq.m.	20.00	16,660,000
Slope protection	167,000 sq.m.	78.00	13,026,000
Concrete weir	12,000 cu.m.	329.00	3,948,000
Sheet pile	2,750 m.	270.00	743,000
The Talisay River			
Excavation, in common	9,524,000 cu.m.	23.00	219,052,000
Embankment	834,000 cu.m.	19.00	15,846,000
Sod facing	768,000 cu.m.	20.00	15,360,000
Slope protection	154,000 sq.m.	78.00	12,012,000
The Nasisi River			
Excavation, in common	901,000 cu.m.	35.00	31,535,000
Embankment	252,000 cu.m.	19.00	4,788,000
Sod facing	267,000 sq.m.	20.00	5,340,000
Slope protection	53,000 sq.m.	78.00	4,134,000
Removal of Existing Head Works			
San Agustin head works	(Concrete 230 m^3)		25,000
Agus-Sta Cruz head works	(Concrete 200 m^3)		22,000

(to be continued)

Item	Quantity	Unit Price	Amount (Pesos)
Gate			
Flood control gate (30m x 6.7m)			8,040,000
Infrastructure			
The Quinali (A) River			
Matacon Bridge (ℓ=199 m)			6,965,000
Quinali Bridge (ℓ=108 m)			3,780,000
Tagpo Bridge (ℓ=196 m)			6,860,000
Oas Bridge (ℓ=270 m)			9,450,000
The Nasisi River			
Binatagan Bridge (ℓ=94 m)			3,290,000
Gamot Bridge (ℓ=94 m)			3,290,000
The Talisay River			
Bacolod Bridge (ℓ=420 m)			14,700,000
Bailey Bridge (ℓ=430 m)			15,050,000
The National Railway			
Nasisi Bridge (ℓ=100 m)			1,400,000
Sub-total			461,448,000
2) General			46,145,000
3) Contractor's Profit			50,759,000
4) Contractor's Tax			15,228,000
5) Surcharges			25,380,000
Contract Cost			598,960,000
2. Acquisition/Right of Way	1,039.2 ha	13,000	13,510,000
3. Resettlement (Type A: 64 Nos., Type B: 177 Nos., Type C: 383 Nos.)			9,424,000
4. Engineering Cost			59,896,000
5. Administration Cost			29,948,000
6. Contingency (Physical)			119,792,000
Total			831,530,000

TABLE-IX.16

DETAILED COST ESTIMATE, IRRIGATION WORKS

THE QUINALI (A) RIVER BASIN AREA

Item	Quantity	Unit Price	Amount (Pesos)
1. Contract Cost			
1) Direct Cost			
Irrigation Canal & Farm Road			
Main Canal			
Stripping	420,000 sq.m.	2.80	1,176,000
Excavation, in common	120,000 cu.m.	13.00	1,560,000
Embankment	233,000 cu.m.	22.00	5,126,000
Lateral Canal			
Stripping	610,000 sq.m.	2.80	1,708,000
Excavation, in common	96,000 cu.m.	13.00	1,248,000
Embankment	165,000 cu.m.	22.00	3,630,000
Related Structures for Main Canal & Lateral Canal			
Concrete, type A	7,070 cu.m.	356.00	2,516,900
Concrete, type B	3,880 cu.m.	329.00	1,276,500
Metal	220 ton	20,000.00	4,400,000
Reinforcing bar	512 ton	4,800.00	2,457,600
R.C. pipe, ϕ 1350	350 lin.m.	780.00	273,000
Drainage Canal			
Excavttion	310,000 cu.m.	13.00	4,030,000
Field drain	29,000 cu.m.	11.00	319,000
Related Structures for Drainage Canal			
Concrete, type A	2,000 cu.m.	356.00	712,000
Concrete, type B	800 cu.m.	329.00	263,200
Metal	40 ton	20,000.00	800,000
Reinforcing bar	95 ton	4,800.00	456,000
Land Clearing & Grading			
Land clearing & grading	50 ha.	1,800.00	90,000

(to be continued)

Item	Quantity	Unit Price	Amount (Pesos)
Construction of Head Works			
Cabilogan head works	(Concrete 1,425 m^3)		469,000
South Quinali head works	(Concrete 2,025 m^3)		666,000
Relating structure	(16 Nos. sluiceway, 8 Nos. irrigation intake)		1,130,000
Gate Work			
Cabilogan head works	(35 m x 2.5 m)		2,275,000
South Quinali head works	(55 m x 2.5 m)		3,575,000
Sub-total			40,157,000
2) General			4,016,000
3) Contractor's Profit			4,417,000
4) Contractor's Tax			1,325,000
5) Surcharges			2,209,000
Contract Cost			52,124,000
2. Acquisition/Right of Way			
3. Engineering Cost			5,212,000
4. Administration Cost			2,606,000
5. Contingency (Physical)			10,425,000
Total			70,367,000

TABLE-IX.17

DETAILED COST ESTIMATE, IRRIGATION WORKS

THE QUINALI (B) RIVER BASIN AREA

Item	Quantity	Unit Price	Amount (Pesos)
1. Contract Cost			
1) Direct Cost			
Irrigation Canal & Farm Road			
Main Canal			
Stripping	179,000 sq.m.	2.80	501,200
Excavation, in common	66,000 cu.m.	13.00	858,000
Embankment	78,000 cu.m.	22.00	1,716,000
Lateral Canal			
Stripping	273,000 sq.m.	2.80	764,400
Excavation, in common	54,000 cu.m.	13.00	702,000
Embankment	108,000 cu.m.	22.00	2,376,000
Related Structures for Main Canal & Lateral Canal			
Concrete, type A	2,400 cu.m.	356.00	854,400
Concrete, type B	1,500 cu.m.	329.00	493,500
Metal	90 ton	20,000.00	1,800,000
Reinforcing bar	210 ton	4,800.00	1,008,000
R.C. pipe, ϕ 1350	180 lin.m.	780.00	140,400
Drainage Canal			
Excavation	60,500 cu.m.	13.00	786,500
Field drain	9,600 cu.m.	11.00	105,600
Related Structures for Drainage Canal			
Concrete, type A	290 cu.m.	356.00	103,200
Concrete, type B	120 cu.m.	329.00	39,500
Metal	6 ton	20,000.00	120,000
Reinforcing bar	14 ton	4,800.00	67,200
Land Clearing & Grading			
Land clearing & grading	380 ha.	1,800.00	684,000

(to be continued)

Item	Quantity	Unit Price	Amount (Pesos)
Head Works			
Bantayan head works (Concrete: 825 m^3, Gate: 98m x 1)			2,819,000
Pipe culvert (ℓ = 19 m)			25,000
Sub-total			15,964,000
2) General			1,596,000
3) Contractor's Profit			1,756,000
4) Contractor's Tax			527,000
5) Surcharges			878,000
Contract Cost			20,721,000
2. Acquisition/Right of Way			
3. Engineering Cost			2,072,000
4. Administration Cost			1,036,000
5. Contingency (Physical)			4,144,000
Total			27,973,000

TABLE-IX.18 FINANCIAL COST, THE QUINALI (A) RIVER

	Sabo Works		River Improvement Works		Irrigation Works		Total		
	Foreign Currency Portion	Local Currency Portion	Foreign Currency Portion	Local Currency Portion	Foreign Currency Portion	Local Currency Portion	Foreign Currency Portion	Local Currency Portion	Total
1. Contract Cost									
Direct Cost	16,170	17,114	190,105	166,110	30,780	9,377	237,055	192,601	429,656
General	-	3,328	-	35,622	-	4,016	-	42,966	42,966
Contractor's Profit	-	3,661	-	39,184	-	4,417	-	47,262	47,262
Contractor's Tax	-	1,098	-	11,755	-	1,325	-	14,178	14,178
Surcharges	-	1,831	-	19,592	-	2,209	-	23,632	23,632
Sub-total	16,170	27,032	190,105	272,263	30,780	21,344	237,055	320,639	557,694
2. Acquisition	-	44	-	14,482	-	-	-	14,526	14,526
3. Resettlement	-	-	-	16,832	-	-	-	16,832	16,832
4. Engineering	-	4,320	-	46,237	-	5,212	-	55,769	55,769
5. Administration	-	2,160	-	23,118	-	2,606	-	27,884	27,884
6. Contingency									
Physical	3,234	5,406	38,021	54,453	6,156	4,269	47,411	64,128	111,539
Escalation	7,587	15,745	90,383	177,306	6,296	5,965	104,266	199,016	303,282
Total	26,991	54,707	318,509	604,691	43,232	39,396	388,732	698,794	1,087,526

TABLE-IX.19 FINANCIAL COST, THE QUINALI (B) RIVER

	Sabo Works		River Improvement Works		Irrigation Works		Total		
	Foreign Currency Portion	Local Currency Portion	Foreign Currency Portion	Local Currency Portion	Foreign Currency Portion	Local Currency Portion	Foreign Currency Portion	Local Currency Portion	Total
1. Contract Cost									
Direct Cost	906	796	70,940	57,995	12,234	3,730	84,080	62,521	146,601
General	-	170	-	12,894	-	1,596	-	14,660	14,660
Contractor's Profit	-	187	-	14,183	-	1,756	-	16,126	16,126
Contractor's Tax	-	56	-	4,255	-	527	-	4,838	4,838
Surcharges	-	94	-	7,091	-	878	-	8,063	8,063
Sub-total	906	1,303	70,940	96,418	12,234	8,487	84,080	106,208	190,288
2. Acquisition	-	1	-	2,955	-	-	-	2,956	2,956
3. Resettlement	-	-	-	608	-	-	-	608	608
4. Engineering	-	221	-	16,736	-	2,072	-	19,029	19,029
5. Administration	-	111	-	8,368	-	1,036	-	9,515	9,515
6. Contingency									
Physical	181	261	14,188	19,284	2,447	1,697	16,816	21,242	38,058
Escalation	63	115	26,248	46,282	2,778	2,632	29,089	49,029	78,118
Total	1,150	2,012	111,376	190,651	17,459	15,924	129,985	208,587	338,572

TABLE-IX.20 FINANCIAL COST, THE YAWA RIVER

	Sabo Works		River Improvement Works		Total		
	Foreign Currency Portion	Local Currency Portion	Foreign Currency Portion	Local Currency Portion	Foreign Currency Portion	Local Currency Portion	Total
1. Contract Cost							
Direct Cost	7,170	7,971	8,988	11,589	16,158	19,560	35,718
General	-	1,514	-	2,058	-	3,572	3,572
Contractor's Profit	-	1,666	-	2,264	-	3,930	3,930
Contractor's Tax	-	500	-	679	-	1,179	1,179
Surcharges	-	833	-	1,132	-	1,965	1,965
Sub-total	7,170	12,484	8,988	17,722	16,158	30,206	46,364
2. Acquisition	-	11	-	320	-	331	331
3. Resettlement	-	-	-	786	-	786	786
4. Engineering	-	1,965	-	2,671	-	4,636	4,636
5. Administration	-	983	-	1,336	-	2,319	2,319
6. Contingency							
Physical	1,434	2,497	1,798	3,544	3,232	6,041	9,273
Escalation	2,638	5,683	2,436	6,189	5,074	11,872	16,946
Total	11,242	23,623	13,222	32,568	24,464	56,191	80,655