



NATIONAL WATER RESOURCES BOARD

SALIENT FEATURES OF NATIONAL IRRIGATION SYSTEM

Name of System		PINACANAUAN		
1) Water Resources Region	2	2) Source of Water Supply		Pinacanauan River
3) Approved Water Rights	6000 lps	4) Official Opening of the System		Nov. 1979
5) Original Construction Cost	P 2,478,870.00 / May 1954	6) Date of Rehabilitation		Non Rehabilitated
7) Cost of Rehabilitation		8) Current Status		Partial Operation Only
9) Firmed-up Service Area		10) Designed Area		
11) Potential Area		12) Number of Landowners		741
13) Number of Farmers Served	1556	14) Average Farm Size		
15) Number of Lots	709	16) Diversion Type		Intake
17) Diversion Capacity	3.30 cms	18) Length of Main Canal		
19) Length of Laterals		20) Number of Turnouts		57
21) Length of Service Roads		22) Length of Access Roads		
23) Drainage Density		24) Farmditch Density		
25) Climatic Condition (Coronas)	Type 3	26) Average Annual Rainfall		
27) Main Crops	Rice			
28) Towns / Province Served	Towns	Province		Area (ha)
		Total		0
29) Irrigated / Benefitted Area	Average			
	Season	Wet	Dry	Third
	Irrigated Area (ha)			
	Benefitted Area (ha)			
	Average Yield (cav/ha)			
30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance	Nature of Contract	Number of FIA	Length of Canal (km) under contract	Area Covered (ha)
31) Future Expansion				
32) Deterioration of the System				
33) Other Information				



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SALIENT FEATURES OF NATIONAL IRRIGATION SYSTEM

Name of System		SAN PABLO-CABAGAN		
1) Water Resources Region	2	2) Source of Water Supply	Pinacanauan de San Pablo R.	
3) Approved Water Rights	on process	4) Official Opening of the System	Jan 18, 1986	
5) Original Construction Cost	P 26,934,124.00	6) Date of Rehabilitation	not yet rehabilitated	
7) Cost of Rehabilitation		8) Current Status	Operating system	
9) Firmed-up Service Area	1273	10) Designed Area	2890	
11) Potential Area	2100	12) Number of Landowners	901	
13) Number of Farmers Served	1215	14) Average Farm Size	0.9	
15) Number of Lots	1,525	16) Diversion Type	Intake	
17) Diversion Capacity	5.027 cms	18) Length of Main Canal	17,979	
19) Length of Laterals	19,937	20) Number of Turnouts	72	
21) Length of Service Roads	27,069	22) Length of Access Roads	18.5	
23) Drainage Density	9.68	24) Farmditch Density	38.5	
25) Climatic Condition (Coronas)	Type 3	26) Average Annual Rainfall	1872	
27) Main Crops	Rice, Corn, Tobacco, Peanut			
28) Towns / Province Served	<b>Towns</b>	<b>Province</b>	<b>Area (ha)</b>	
	S Pablo	Isabela	346	
	Cabagan	Isabela	927	
	<b>Total</b>		<b>0</b>	
29) Irrigated / Benefitted Area	Average 1985-1995			
Season	Wet	Dry	Third	
Irrigated Area (ha)	506	518		
Benefitted Area (ha)	397	390		
Average Yield (cav/ha)	80	79		
30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance	<b>Nature of Contract</b>	<b>Number of FIA</b>	<b>Length of Canal (km) under contract</b>	<b>Area Covered (ha)</b>
	Type I & II	7	30.941	1,273
31) Future Expansion	There is a future expansion of 827 has.			
32) Deterioration of the System	Headworks, removable of silt repair of banks, clearing vegetation, service road, structure repair, gates painting.			
33) Other Information	The system is included in the list for improvement of the WRDP to be implemented starting CY 1997.			



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SALIENT FEATURES OF NATIONAL IRRIGATION SYSTEM

Name of System		<b>SOLANA PUMP</b>			
1) Water Resources Region	2	2) Source of Water Supply		Cagayan River	
3) Approved Water Rights		4) Official Opening of the System		Apr. 1979	
5) Original Construction Cost		6) Date of Rehabilitation		1995	
7) Cost of Rehabilitation	P 4,700,000.00	8) Current Status		Operating system	
9) Firmed-up Service Area	1000	10) Designed Area		2826	
11) Potential Area	2826	12) Number of Landowners		394	
13) Number of Farmers Served	892	14) Average Farm Size		0.7764	
15) Number of Lots	1049	16) Diversion Type		Pump	
17) Diversion Capacity	2.2	18) Length of Main Canal		18.391	
19) Length of Laterals	23.92	20) Number of Turnouts		35	
21) Length of Service Roads	86.81	22) Length of Access Roads		10.31	
23) Drainage Density	10.07	24) Farmditch Density		87.43	
25) Climatic Condition (Coronas)	Type III	26) Average Annual Rainfall		2010	
27) Main Crops	Rice				
28) Towns / Province Served	<b>Towns</b>	<b>Province</b>		<b>Area (ha)</b>	
	Solana	Cagayan		1000	
	<b>Total</b>				<b>0</b>
29) Irrigated / Benefitted Area	<b>Average 1985-1995</b>				
	<b>Season</b>	<b>Wet</b>	<b>Dry</b>	<b>Third</b>	
	Irrigated Area (ha)	628	572		
	Benefitted Area (ha)	521	536		
	Average Yield (cav/ha)	69	78		
30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance	<b>Nature of Contract</b>	<b>Number of FIA</b>	<b>Length of Canal (km) under contract</b>	<b>Area Covered (ha)</b>	
	Stage III	1	22.121	1000	
31) Future Expansion					
32) Deterioration of the System					
33) Other Information					



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SALIENT FEATURES OF NATIONAL IRRIGATION SYSTEM

Name of System		SOLANA-TUGUEGARAO		
1) Water Resources Region	2	2) Source of Water Supply	Cagayan River	
3) Approved Water Rights	No. Available Data	4) Official Opening of the System	Apr. 1979	
5) Original Construction Cost	P 11,053,000.00	6) Date of Rehabilitation	1985	
7) Cost of Rehabilitation	P 11,053,000.00	8) Current Status	Operating system	
9) Firmed-up Service Area		10) Designed Area		
11) Potential Area		12) Number of Landowners	1186	
13) Number of Farmers Served	2863	14) Average Farm Size	0.75	
15) Number of Lots	1760	16) Diversion Type	Pump	
17) Diversion Capacity	7.05 cms	18) Length of Main Canal		
19) Length of Laterals		20) Number of Turnouts	56	
21) Length of Service Roads		22) Length of Access Roads		
23) Drainage Density		24) Farmditch Density		
25) Climatic Condition (Coronas)	Type 3	26) Average Annual Rainfall		
27) Main Crops	Rice			
28) Towns / Province Served	Towns	Province	Area (ha)	
		Total	0	
29) Irrigated / Benefitted Area	Average			
	Season	Wet	Dry	Third
	Irrigated Area (ha)			
	Benefitted Area (ha)			
	Average Yield (cav/ha)			
30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance	Nature of Contract	Number of FIA	Length of Canal (km) under contract	Area Covered (ha)
31) Future Expansion				
32) Deterioration of the System				
33) Other Information				



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SALIENT FEATURES OF NATIONAL IRRIGATION SYSTEM

Name of System		TUMAUNI		
1) Water Resources Region	2	2) Source of Water Supply		Pinacananan River
3) Approved Water Rights		4) Official Opening of the System		1984
5) Original Construction Cost	P 33,270,000.00	6) Date of Rehabilitation		1988-1991
7) Cost of Rehabilitation	P 4,000,000.00	8) Current Status		Operating System
9) Firmed-up Service Area	3650	10) Designed Area		6100
11) Potential Area	5500	12) Number of Landowners		1923
13) Number of Farmers Served	1556	14) Average Farm Size		1556
15) Number of Lots	1.9	16) Diversion Type		Intake
17) Diversion Capacity	7.57	18) Length of Main Canal		23.5
19) Length of Laterals	87.9	20) Number of Turnouts		182
21) Length of Service Roads	55.5	22) Length of Access Roads		14.7
23) Drainage Density	6.85	24) Farmditch Density		0.56
25) Climatic Condition (Coronas)	Type 3	26) Average Annual Rainfall		2258
27) Main Crops	Rice, Corn			
28) Towns / Province Served	<b>Towns</b>	<b>Province</b>		<b>Area (ha)</b>
	Tumauini	Isabela		335
	Cabagan	Isabela		35
	Iligan	Isabela		258
	<b>Total</b>			
29) Irrigated / Benefitted Area	Average 1975-1986			
Season	<b>Wet</b>	<b>Dry</b>	<b>Third</b>	
Irrigated Area (ha)	1629	1714		
Benefitted Area (ha)	1276	1297		
Average Yield (cav/ha)	58.47	59.61		
30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance	<b>Nature of Contract</b>	<b>Number of FIA</b>	<b>Length of Canal (km) under contract</b>	<b>Area Covered (ha)</b>
	Type 1, Type 2, Stage 2	10	75.769	2481.02
31) Future Expansion	A proposed reservoir is in the offing to help increase water supply. An expansion of irrigable area of 6,285 has. if this will be pushed through.			
32) Deterioration of the System	Desilting and restoring canals to full section. Lining of canals to prevent seepage losses and erosion and improvements of serv. Roads			
33) Other Information				



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SALIENT FEATURES OF NATIONAL IRRIGATION SYSTEM

Name of System		UPPER CHICO		
1) Water Resources Region	2	2) Source of Water Supply	Chico River	
3) Approved Water Rights	62550 lps	4) Official Opening of the System	1986	
5) Original Construction Cost		6) Date of Rehabilitation	1986-1996 (Maintenance)	
7) Cost of Rehabilitation		8) Current Status	Operating System	
9) Firmed-up Service Area	17551	10) Designed Area	17551	
11) Potential Area	17551	12) Number of Landowners	5357	
13) Number of Farmers Served	6873	14) Average Farm Size	1.1	
15) Number of Lots	1778	16) Diversion Type	Diversion Dam	
17) Diversion Capacity	34.36	18) Length of Main Canal	109.01	
19) Length of Laterals	87.22	20) Number of Turnouts	409	
21) Length of Service Roads	154.79	22) Length of Access Roads	83867	
23) Drainage Density	6.64	24) Farmditch Density	28.12	
25) Climatic Condition (Coronas)	Type I	26) Average Annual Rainfall	1617	
27) Main Crops	Rice			
28) Towns / Province Served	<b>Towns</b>	<b>Province</b>	<b>Area (ha)</b>	
	Tobuk	Kaling-A	749	
	Pinukpuk	Kaling-A	600	
	Quezon	Isabela	7522	
	Mallig	Isabela	2320	
	<b>Total</b>		<b>0</b>	
29) Irrigated / Benefitted Area	Average 1985-1995			
Season	<b>Wet</b>	<b>Dry</b>	<b>Third</b>	
Irrigated Area (ha)	9041.77	8814		
Benefitted Area (ha)	8416.7	7978.1		
Average Yield (cav/ha)	68.45	73.2		
30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance	<b>Nature of Contract</b>	<b>Number of FIA</b>	<b>Length of Canal (km) under contract</b>	<b>Area Covered (ha)</b>
	Type I & II	24	122.27	2245.892
31) Future Expansion	Expansion of 20,200 ha. located in Kalinga, Isabela and Cagayan.			
32) Deterioration of the System	Deterioration of main canals, laterals and gates which needs to be repaired. Upgrading of canal embankment and canal lined.			
33) Other Information				



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SALIENT FEATURES OF NATIONAL IRRIGATION SYSTEM

Name of System		ZINUNDUNGAN		
1) Water Resources Region	2	2) Source of Water Supply	Zinund, Sicalo, Banarbur R	
3) Approved Water Rights	Approved	4) Official Opening of the System	May. 1, 1978	
5) Original Construction Cost	P 21,000,000.00	6) Date of Rehabilitation		
7) Cost of Rehabilitation		8) Current Status	Operating System	
9) Firmed-up Service Area	2045	10) Designed Area	3200	
11) Potential Area	3200	12) Number of Landowners	1400	
13) Number of Farmers Served	1523	14) Average Farm Size	1461	
15) Number of Lots	2607	16) Diversion Type	Gravity and Oggee	
17) Diversion Capacity	2.095, 0.9, & .075	18) Length of Main Canal	27.07	
19) Length of Laterals	14.358	20) Number of Turnouts	112	
21) Length of Service Roads	35.466	22) Length of Access Roads	0.73	
23) Drainage Density	0.0017	24) Farmditch Density	0.0174	
25) Climatic Condition (Coronas)	Type III	26) Average Annual Rainfall	2277	
27) Main Crops	Rice			
28) Towns / Province Served	Towns	Province	Area (ha)	
	Ensam	Cagayan	2045	
		Total	0	
29) Irrigated / Benefitted Area				
Average	1985-1995			
Season	Wet	Dry	Third	
Irrigated Area (ha)	1596.166	1650.17		
Benefitted Area (ha)	1329.04	1438.19		
Average Yield (cav/ha)	77	76		
30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance	Nature of Contract	Number of FIA	Length of Canal (km) under contract	Area Covered (ha)
	Stage II	4		1231.93
31) Future Expansion	Future expansion will be 1,155 has.			
32) Deterioration of the System	Main Canal and lateral needs to improve every cropping season and typhoon damages should be repair.			
33) Other Information	Oggee dam is needed to maintain from deviating river bed elevation and river course.			



Name of System	AGOS			
1) Water Resources Region	4	2) Source of Water Supply		Agos River
3) Approved Water Rights	2250 lps	4) Official Opening of the System		Sept. 15, 1959
5) Original Construction Cost	P 1,200,000.00	6) Date of Rehabilitation		1987-present (IOSP I)
7) Cost of Rehabilitation	P 3,169,000.00	8) Current Status		Operating System
9) Firmed-up Service Area	1991	10) Designed Area		1500
11) Potential Area	1250	12) Number of Landowners		2751
13) Number of Farmers Served	2751	14) Average Farm Size		0.35
15) Number of Lots	3450	16) Diversion Type		Intake
17) Diversion Capacity	3	18) Length of Main Canal		7.685
19) Length of Laterals	39.674	20) Number of Turnouts		134
21) Length of Service Roads	20.679	22) Length of Access Roads		2.998
23) Drainage Density	18.6	24) Farm-ditch Density		95.79
25) Climatic Condition (Coronas)	Type II	26) Average Annual Rainfall		3601.24
27) Main Crops	Rice			
28) Towns / Province Served	Towns	Province	Area (ha)	
	Infanta	Quezon	1119	
<b>Total</b>				
<b>0</b>				
29) Irrigated / Benefited Area	1985-1995			
Average Season	Wet	Dry	Third	
Irrigated Area (ha)	1119	1067		
Benefited Area (ha)	1072	980		
Average Yield (cav/ha)	80	66		
30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance	Nature of Contract	Number of FIA	Length of Canal (km) under contract	Area Covered (ha)
	Stage II	7	45.33	1119
31) Future Expansion	Expansion area is in Brgy. Gumian & Libjo.			
32) Deterioration of the System	Regular brushdamming & river channelling at intake.			
33) Other Information				





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SALIENT FEATURES OF NATIONAL IRRIGATION SYSTEM

Name of System		AGUSTIN-KASTILA-JULIAN			
1) Water Resources Region	4	2) Source of Water Supply	Alang-Hang River		
3) Approved Water Rights		4) Official Opening of the System	Spanish Time		
5) Original Construction Cost		6) Date of Rehabilitation			
7) Cost of Rehabilitation		8) Current Status	Operating system		
9) Firmed-up Service Area	1415.8451	10) Designed Area	1700		
11) Potential Area	1700	12) Number of Landowners	687		
13) Number of Farmers Served	757	14) Average Farm Size	1.87		
15) Number of Lots	733	16) Diversion Type	Diversion Dam		
17) Diversion Capacity	2550	18) Length of Main Canal	30.42		
19) Length of Laterals	20.867	20) Number of Turnouts	206		
21) Length of Service Roads	21.92	22) Length of Access Roads	2		
23) Drainage Density		24) Farmditch Density			
25) Climatic Condition (Coronas)	Type I	26) Average Annual Rainfall			
27) Main Crops	Rice, Ampalaya				
28) Towns / Province Served	Towns	Province	Area (ha)		
	Imus	Cavite	1483.213		
	Dasmariñas	Cavite	171.285		
	Total		0		
29) Irrigated / Benefitted Area	Average 1985-1995				
Season	Wet	Dry	Third		
Irrigated Area (ha)	1466.06	44.5702			
Benefitted Area (ha)	1380.36	44.57			
Average Yield (cav/ha)	59	65			
30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance	Nature of Contract	Number of FIA	Length of Canal (km) under contract	Area Covered (ha)	
	Stage I				
31) Future Expansion					
32) Deterioration of the System	Canal Rehabilitation and Improvement				
33) Other Information					



NATIONAL WATER RESOURCES BOARD

SALIENT FEATURES OF NATIONAL IRRIGATION SYSTEM

Name of System		AMNAY-PATRICK		
1) Water Resources Region	4	2) Source of Water Supply	Patrick River	
3) Approved Water Rights		4) Official Opening of the System	1986	
5) Original Construction Cost		6) Date of Rehabilitation	On-going IOSP	
7) Cost of Rehabilitation		8) Current Status	Operating System	
9) Firmed-up Service Area	1331	10) Designed Area	1957	
11) Potential Area	1957	12) Number of Landowners	330	
13) Number of Farmers Served	330	14) Average Farm Size	3.18	
15) Number of Lots	419	16) Diversion Type	Brush Dam	
17) Diversion Capacity		18) Length of Main Canal	11.327	
19) Length of Laterals	14.282	20) Number of Turnouts	44	
21) Length of Service Roads	19.088	22) Length of Access Roads		
23) Drainage Density	4.461	24) Farmditch Density	39.284	
25) Climatic Condition (Coronas)	Type IV	26) Average Annual Rainfall		
27) Main Crops	Rice			
28) Towns / Province Served	Towns	Province	Area (ha)	
	Sakhalin	Occidental Mindoro	1331	
	Total		0	
29) Irrigated / Benefitted Area	1985-1995			
Average Season	Wet	Dry	Third	
Irrigated Area (ha)	550	500		
Benefitted Area (ha)	550	500		
Average Yield (cav/ha)	75	70		
30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance	Nature of Contract	Number of FIA	Length of Canal (km) under contract	Area Covered (ha)
	Type I	1	3.66	105
31) Future Expansion				
32) Deterioration of the System	Canal and embankments can be easily damaged due to uncontrolled irrigation water coming from the river source.			
33) Other Information	Changed river course abandoning intake structure. Channeling must be done after rainy season to provide efficient irrigation service.			



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SALIENT FEATURES OF NATIONAL IRRIGATION SYSTEM

Name of System		BACO-BUCAYAO			
1) Water Resources Region	4	2) Source of Water Supply		Baco & Langkawan Rivers	
3) Approved Water Rights	20000 lps	4) Official Opening of the System		Feb. 15, 1973	
5) Original Construction Cost	P 7,340,000.00	6) Date of Rehabilitation		June 1975 9MIRDO-ICO	
7) Cost of Rehabilitation		8) Current Status		Operating System	
9) Firmed-up Service Area	6327	10) Designed Area		10000	
11) Potential Area	10000	12) Number of Landowners		2577	
13) Number of Farmers Served	2574	14) Average Farm Size		5	
15) Number of Lots	3	16) Diversion Type		Ogee Dam	
17) Diversion Capacity	14.55	18) Length of Main Canal		24.779	
19) Length of Laterals	97	20) Number of Turnouts		523	
21) Length of Service Roads	105.85	22) Length of Access Roads		5.3	
23) Drainage Density	28	24) Farmditch Density		48	
25) Climatic Condition (Coronas)	Type IV	26) Average Annual Rainfall		1788.5	
27) Main Crops					
28) Towns / Province Served	<b>Towns</b>	<b>Province</b>		<b>Area (ha)</b>	
	Calapan	Oriental Mindoro		5225	
	Naujan	Oriental Mindoro		1009	
	<b>Total</b>			<b>0</b>	
29) Irrigated / Benefitted Area					
Average	1985-1995				
Season	<b>Wet</b>	<b>Dry</b>	<b>Third</b>		
Irrigated Area (ha)	3786	4150			
Benefitted Area (ha)	360	4030			
Average Yield (cav/ha)	60	70			
30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance	<b>Nature of Contract</b>	<b>Number of FIA</b>	<b>Length of Canal (km) under contract</b>	<b>Area Covered (ha)</b>	
	Type 1 & 2	2		700	
31) Future Expansion					
32) Deterioration of the System	Perennial siltation due to watershed ecological disorder.				
33) Other Information					



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SALIENT FEATURES OF NATIONAL IRRIGATION SYSTEM

Name of System		BALANAC		
1) Water Resources Region	4	2) Source of Water Supply	Balanao River	
3) Approved Water Rights	1718 lps	4) Official Opening of the System	Mar. 1967	
5) Original Construction Cost	P 900,000.00	6) Date of Rehabilitation	1984-1987 SLBIP	
7) Cost of Rehabilitation	P 37,105,575.00	8) Current Status	Operating system	
9) Firmed-up Service Area	1040	10) Designed Area	1200	
11) Potential Area	1300	12) Number of Landowners	928	
13) Number of Farmers Served	1277	14) Average Farm Size	0.7171	
15) Number of Lots	1435	16) Diversion Type	Ogee Dam	
17) Diversion Capacity	3.9	18) Length of Main Canal	13.263	
19) Length of Laterals	14.938	20) Number of Turnouts	82	
21) Length of Service Roads	9.428	22) Length of Access Roads	20	
23) Drainage Density	8.92	24) Farmditch Density	43.75	
25) Climatic Condition (Coronas)	Type IV	26) Average Annual Rainfall		
27) Main Crops	Rice, Corn, Vegetables			
28) Towns / Province Served	Towns	Province	Area (ha)	
	Sia Cruz	Laguna	135	
	Pagsanjan	Laguna	405	
	Lumban	Laguna	400	
	Mogulena	Laguna	100	
	Total		0	
29) Irrigated / Benefitted Area	Average 1985-1995			
Season	Wet	Dry	Third	
Irrigated Area (ha)	764.9682	965.2721		
Benefitted Area (ha)	635.2848	937.3838		
Average Yield (cav/ha)	78	91		
30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance	Nature of Contract	Number of FIA	Length of Canal (km) under contract	Area Covered (ha)
	Type 1 & 2	1	28.201	1040
31) Future Expansion	The present area may be increased after rehabilitation of the system thru WRDP from 1,040 to 1,300 has.			
32) Deterioration of the System	The system is scheduled to be given rehabilitation funds thru WRDP.			
33) Other Information				



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SALIENT FEATURES OF NATIONAL IRRIGATION SYSTEM

Name of System		BALAYUNGAN		
1) Water Resources Region	4	2) Source of Water Supply	Balayungan River	
3) Approved Water Rights		4) Official Opening of the System	Spanish Time	
5) Original Construction Cost		6) Date of Rehabilitation		
7) Cost of Rehabilitation		8) Current Status	Operating System	
9) Firmed-up Service Area	1655.8518	10) Designed Area	1699.6157	
11) Potential Area	1699.6157	12) Number of Landowners	1081	
13) Number of Farmers Served	1049	14) Average Farm Size	1.62	
15) Number of Lots	1081	16) Diversion Type	Diversion Dam	
17) Diversion Capacity	2.54942	18) Length of Main Canal	14.397	
19) Length of Laterals	17.973	20) Number of Turnouts	212	
21) Length of Service Roads	32.35	22) Length of Access Roads		
23) Drainage Density		24) Farmditch Density		
25) Climatic Condition (Coronas)	Type I	26) Average Annual Rainfall		
27) Main Crops	Rice			
28) Towns / Province Served	<b>Towns</b>	<b>Province</b>	<b>Area (ha)</b>	
	Noic	Cavite	1462.6144	
	Ternate	Cavite	26.4365	
	Akrogondon	Cavite	210.5648	
	<b>Total</b>		<b>0</b>	
29) Irrigated / Benefitted Area				
Average	1985-1995			
Season	Wet	Dry	Third	
Irrigated Area (ha)	1586	1453		
Benefitted Area (ha)	1273	1452		
Average Yield (cav/ha)	61	83		
30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance	Nature of Contract	Number of FIA	Length of Canal (km) under contract	Area Covered (ha)
	Stage I			
31) Future Expansion				
32) Deterioration of the System	Canal Rehabilitation and Improvement			
33) Other Information				



NATIONAL WATER RESOURCES BOARD

SALIENT FEATURES OF NATIONAL IRRIGATION SYSTEM

Name of System		BANKUD		
1) Water Resources Region	4	2) Source of Water Supply	Kay Alelang River	
3) Approved Water Rights		4) Official Opening of the System	Spanish Time	
5) Original Construction Cost		6) Date of Rehabilitation		
7) Cost of Rehabilitation		8) Current Status	Operating system	
9) Firmed-up Service Area	512.1433	10) Designed Area	800	
11) Potential Area	800	12) Number of Landowners	204	
13) Number of Farmers Served	327	14) Average Farm Size	1.566	
15) Number of Lots	255	16) Diversion Type	Diversion Dam	
17) Diversion Capacity	1.2	18) Length of Main Canal	11.5	
19) Length of Laterals	6.7	20) Number of Turnouts	99	
21) Length of Service Roads	11.36	22) Length of Access Roads		
23) Drainage Density	16.7	24) Farmditch Density	19.09	
25) Climatic Condition (Coronas)	Type I	26) Average Annual Rainfall		
27) Main Crops	Rice			
28) Towns / Province Served	Towns	Province	Area (ha)	
	Gen Trias	Cavite	791265	
	Total		0	
29) Irrigated / Benefitted Area	Average 1985-1995			
Season	Wet	Dry	Thrid	
Irrigated Area (ha)	669.7862	132.0585		
Benefitted Area (ha)	555.7193	132.0585		
Average Yield (cav/ha)	65	83		
30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance	Nature of Contract	Number of FIA	Length of Canal (km) under contract	Area Covered (ha)
31) Future Expansion				
32) Deterioration of the System	Canal Rehabilitation and Improvement			
33) Other Information				



NATIONAL WATER RESOURCES BOARD

SALIENT FEATURES OF NATIONAL IRRIGATION SYSTEM

Name of System		<b>BANSUD</b>			
1) Water Resources Region	4	2) Source of Water Supply		Bansud & Langkowan Rivers	
3) Approved Water Rights		4) Official Opening of the System			
5) Original Construction Cost		6) Date of Rehabilitation		1975	
7) Cost of Rehabilitation		8) Current Status		Operating System	
9) Firmed-up Service Area	870	10) Designed Area		1081	
11) Potential Area	1081	12) Number of Landowners		679	
13) Number of Farmers Served	693	14) Average Farm Size		1.45	
15) Number of Lots	601	16) Diversion Type		Diversion Dam	
17) Diversion Capacity	1.6	18) Length of Main Canal		7.553	
19) Length of Laterals	11.288	20) Number of Turnouts		39	
21) Length of Service Roads	22.134	22) Length of Access Roads		15.25	
23) Drainage Density	15	24) Farmditch Density		75	
25) Climatic Condition (Coronas)	Type IV	26) Average Annual Rainfall		2027.6	
27) Main Crops	Rice, Monggo, Watermelon				
28) Towns / Province Served	<b>Towns</b>	<b>Province</b>		<b>Area (ha)</b>	
	Bansud	Oriental Mindoro		870	
	<b>Total</b>				<b>0</b>
29) Irrigated / Benefitted Area					
Average	1985-1995				
Season	<b>Wet</b>	<b>Dry</b>	<b>Third</b>		
Irrigated Area (ha)	870.21	830.8			
Benefitted Area (ha)	767.06	798.27			
Average Yield (cav/ha)	71	76			
30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance	<b>Nature of Contract</b>	<b>Number of FIA</b>	<b>Length of Canal (km) under contract</b>	<b>Area Covered (ha)</b>	
	Type 1 & 2	1	3.586	209	
31) Future Expansion	Proposed Markang Bato Irrigation Project has potential area of 884 ha				
32) Deterioration of the System	Near collapse of Lateral SA & service road of Division affecting 827 ha.				
33) Other Information	Alarming siltation from denuded watershed				



NATIONAL WATER RESOURCES BOARD

SALIENT FEATURES OF NATIONAL IRRIGATION SYSTEM

Name of System		BUTAS-MARCELO		
1) Water Resources Region	4	2) Source of Water Supply	Rio Grande River	
3) Approved Water Rights		4) Official Opening of the System	Spanish Time	
5) Original Construction Cost		6) Date of Rehabilitation		
7) Cost of Rehabilitation		8) Current Status	Operating system	
9) Firmed-up Service Area	1973.944	10) Designed Area	2300	
11) Potential Area	2300	12) Number of Landowners	796	
13) Number of Farmers Served	1055	14) Average Farm Size	1.87	
15) Number of Lots	837	16) Diversion Type	Diversion Dam	
17) Diversion Capacity	3450	18) Length of Main Canal	26.818	
19) Length of Laterals	25.375	20) Number of Turnouts	282	
21) Length of Service Roads	35.5	22) Length of Access Roads	3.4	
23) Drainage Density		24) Farmditch Density		
25) Climatic Condition (Coronas)	Type I	26) Average Annual Rainfall		
27) Main Crops	Rice, Garlic, Watermelon			
28) Towns / Province Served	Towns	Province	Area (ha)	
	Gen. Trias	Cavite	2260.67	
	Total		0	
29) Irrigated / Benefitted Area	1985-1995			
Average Season	Wet	Dry	Third	
Irrigated Area (ha)	1964.08	205.9607		
Benefitted Area (ha)	1741.59	205.9607		
Average Yield (cav/ha)	65	84		
30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance	Nature of Contract	Number of FIA	Length of Canal (km) under contract	Area Covered (ha)
	Stage I			
31) Future Expansion				
32) Deterioration of the System	Canal Rehabilitation and Improvement			
33) Other Information				





NATIONAL WATER RESOURCES BOARD

SALIENT FEATURES OF NATIONAL IRRIGATION SYSTEM

Name of System		<b>CABUYAO EAST PUMPS</b>			
1) Water Resources Region	4	2) Source of Water Supply	San Cristobal River		
3) Approved Water Rights		4) Official Opening of the System	Aug. 1980		
5) Original Construction Cost	P 20,207,481.18	6) Date of Rehabilitation	On-going IOSP		
7) Cost of Rehabilitation	P 1,362,412.88	8) Current Status	Operating System		
9) Firmed-up Service Area	632	10) Designed Area	1332		
11) Potential Area	1132	12) Number of Landowners	267		
13) Number of Farmers Served	349	14) Average Farm Size	1.28		
15) Number of Lots	493	16) Diversion Type	Pumps		
17) Diversion Capacity	2.15	18) Length of Main Canal	5.26		
19) Length of Laterals	10.81	20) Number of Turnouts	30		
21) Length of Service Roads	15.74	22) Length of Access Roads	5.6		
23) Drainage Density	18.05	24) Farm/ha Density	66		
25) Climatic Condition (Coronas)	Type II*	26) Average Annual Rainfall	1284		
27) Main Crops	Rice, Garlic, Watermelon				
28) Towns / Province Served	<b>Towns</b>	<b>Province</b>		<b>Area (ha)</b>	
	Cabuyao	Laguna		632	
		<b>Total</b>		<b>0</b>	
29) Irrigated / Benefitted Area	Average 1985-1995				
Season	<b>Wet</b>	<b>Dry</b>	<b>Thrd</b>		
Irrigated Area (ha)	582	579			
Benefitted Area (ha)	513	546			
Average Yield (cav/ha)	80	99			
30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance	<b>Nature of Contract</b>	<b>Number of FIA</b>	<b>Length of Canal (km) under contract</b>	<b>Area Covered (ha)</b>	
31) Future Expansion	There will be expansion if Lateral C & D could be irrigated.				
32) Deterioration of the System	The system needs rehab. Access road needs repair.				
33) Other Information					



NATIONAL WATER RESOURCES BOARD

SALIENT FEATURES OF NATIONAL IRRIGATION SYSTEM

Name of System		CANTINGAS		
1) Water Resources Region	4	2) Source of Water Supply	Cantingas River	
3) Approved Water Rights		4) Official Opening of the System	1957	
5) Original Construction Cost	P 204,800.00	6) Date of Rehabilitation	1996	
7) Cost of Rehabilitation	P 3,026,735.00	8) Current Status	Operating system	
9) Firmed-up Service Area	256	10) Designed Area	310	
11) Potential Area	310	12) Number of Landowners	319	
13) Number of Farmers Served	301	14) Average Farm Size	0.83	
15) Number of Lots	310	16) Diversion Type	Intake	
17) Diversion Capacity		18) Length of Main Canal	3.08	
19) Length of Laterals	3.45	20) Number of Turnouts	34	
21) Length of Service Roads	6.15	22) Length of Access Roads		
23) Drainage Density		24) Farmditch Density		
25) Climatic Condition (Coronas)	Type I	26) Average Annual Rainfall	194.36	
27) Main Crops	Rice			
28) Towns / Province Served	Towns	Province	Area (ha)	
	Fernando	Romblon	256	
			Total	
			0	
29) Irrigated / Benefitted Area	1985-1995			
Average				
Season	Wet	Dry	Third	
Irrigated Area (ha)	256	256		
Benefitted Area (ha)	256	256		
Average Yield (cav/ha)	70	70		
30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance	Nature of Contract	Number of FIA	Length of Canal (km) under contract	Area Covered (ha)
	Stage III	3	6.53	256
31) Future Expansion	Additional area of 26 ha from improvement by ARC and ARISP			
32) Deterioration of the System	Perennial siltation of main canal sourced from Cantingas river			
33) Other Information	Declared as Agrarian Reform Community (ARC)			



NATIONAL WATER RESOURCES BOARD

SALIENT FEATURES OF NATIONAL IRRIGATION SYSTEM

Name of System		CULONG-CULONG			
1) Water Resources Region	4	2) Source of Water Supply	Culong-culong River		
3) Approved Water Rights		4) Official Opening of the System	Spanish time		
5) Original Construction Cost		6) Date of Rehabilitation			
7) Cost of Rehabilitation		8) Current Status	Operating system		
9) Firmed-up Service Area	507.3497	10) Designed Area	610.7789		
11) Potential Area	610.7789	12) Number of Landowners	682		
13) Number of Farmers Served	376	14) Average Farm Size	1.6		
15) Number of Lots	382	16) Diversion Type	Diversion Dam		
17) Diversion Capacity	916	18) Length of Main Canal	14.107		
19) Length of Laterals	11.506	20) Number of Turnouts	76		
21) Length of Service Roads	14.7	22) Length of Access Roads			
23) Drainage Density		24) Farmditch Density			
25) Climatic Condition (Coronas)	Type I	26) Average Annual Rainfall			
27) Main Crops	Rice				
28) Towns / Province Served	Towns	Province	Area (ha)		
	Naic	Cavite	610.7789		
	Total		0		
29) Irrigated / Benefitted Area	Average 1985-1995				
Season	Wet	Dry	Third		
Irrigated Area (ha)	522	232			
Benefitted Area (ha)	443	228			
Average Yield (cav/ha)	61	63			
30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance	Nature of Contract	Number of FIA	Length of Canal (km) under contract	Area Covered (ha)	
	Stage I (Temporary tur	376	26.9	507.3497	
31) Future Expansion					
32) Deterioration of the System	Canal Rehabilitation and Improvement				
33) Other Information					



NATIONAL WATER RESOURCES BOARD

SALIENT FEATURES OF NATIONAL IRRIGATION SYSTEM

Name of System		<b>DIEZMO PUMPS</b>		
1) Water Resources Region	4	2) Source of Water Supply	Diezmo River	
3) Approved Water Rights		4) Official Opening of the System	Friars era	
5) Original Construction Cost		6) Date of Rehabilitation	On-going IOSP	
7) Cost of Rehabilitation	P 854,145.17	8) Current Status	Operating System	
9) Firmed-up Service Area	693	10) Designed Area		
11) Potential Area		12) Number of Landowners	174	
13) Number of Farmers Served	262	14) Average Farm Size	2.02	
15) Number of Lots	344	16) Diversion Type	Run-of-river	
17) Diversion Capacity	2.13	18) Length of Main Canal	8.72	
19) Length of Laterals	22.15	20) Number of Turnouts	22	
21) Length of Service Roads		22) Length of Access Roads		
23) Drainage Density		24) Farmditch Density	25	
25) Climatic Condition (Coronas)	Type IV	26) Average Annual Rainfall	1530	
27) Main Crops	Rice, Garlic, Watermelon			
28) Towns / Province Served	Towns	Province	Area (ha)	
	Sta Rosa	Logona	693	
	<b>Total</b>		<b>0</b>	
29) Irrigated / Benefitted Area				
Average	1985-1995			
Season	Wet	Dry	Third	
Irrigated Area (ha)	618	493		
Benefitted Area (ha)	596	491		
Average Yield (cav./ha)	66	70		
30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance	Nature of Contract	Number of FIA	Length of Canal (km) under contract	Area Covered (ha)
31) Future Expansion				
32) Deterioration of the System	The system needs rehab. Drainage & flood control needs rehabilitation.			
33) Other Information				



NATIONAL WATER RESOURCES BOARD

SALIENT FEATURES OF NATIONAL IRRIGATION SYSTEM

Name of System		DUMACAA		
1) Water Resources Region	4	2) Source of Water Supply	Dumaca & Ibia River	
3) Approved Water Rights	3200	4) Official Opening of the System	Aug 31, 1954	
5) Original Construction Cost	P 1,581,240.00	6) Date of Rehabilitation	1977-1996	
7) Cost of Rehabilitation	P 75,000,000.00	8) Current Status	Operating System	
9) Firmed-up Service Area	2509	10) Designed Area	2227	
11) Potential Area	2227	12) Number of Landowners	1346	
13) Number of Farmers Served	1257	14) Average Farm Size	1.5	
15) Number of Lots	2099	16) Diversion Type	Diversion Dam	
17) Diversion Capacity	3.76	18) Length of Main Canal	3.702	
19) Length of Laterals	18.85	20) Number of Turnouts	200	
21) Length of Service Roads	82.702	22) Length of Access Roads		
23) Drainage Density		24) Farmditch Density	41.18	
25) Climatic Condition (Coronas)	Type IV	26) Average Annual Rainfall	3053.6	
27) Main Crops	Rice			
28) Towns / Province Served	Towns	Province	Area (ha)	
	Lucena	Quezon	2509	
	Pagbilao	Quezon		
	Tayabas	Quezon		
	Total		0	
29) Irrigated / Benefitted Area				
Average	1985-1995			
Season	Wet	Dry	Third	
Irrigated Area (ha)	1810	2123		
Benefitted Area (ha)	1626	1900		
Average Yield (cav/ha)	65	70		
30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance	Nature of Contract	Number of FIA	Length of Canal (km) under contract	Area Covered (ha)
31) Future Expansion				
32) Deterioration of the System	Existing earth canal should be lined to avoid scouring of embankment.			
33) Other Information	Portion of Lucena area of Dumaca RIS was categorized as residential & industrial area as per zoning ordinance.			



NATIONAL WATER RESOURCES BOARD

SALIENT FEATURES OF NATIONAL IRRIGATION SYSTEM

Name of System		EMBARCADERO-BALUCTOT		
1) Water Resources Region	4	2) Source of Water Supply	Malaking Hog River	
3) Approved Water Rights		4) Official Opening of the System	Spanish Time	
5) Original Construction Cost		6) Date of Rehabilitation		
7) Cost of Rehabilitation		8) Current Status	Operating system	
9) Firmed-up Service Area	775.8082	10) Designed Area	1000	
11) Potential Area	1000	12) Number of Landowners	296	
13) Number of Farmers Served	248	14) Average Farm Size	3.13	
15) Number of Lots	320	16) Diversion Type	Diversion Dam	
17) Diversion Capacity	11.5	18) Length of Main Canal	12.33	
19) Length of Laterals	6.54	20) Number of Turnouts	117	
21) Length of Service Roads	26.48	22) Length of Access Roads	4.46	
23) Drainage Density		24) Farnditch Density		
25) Climatic Condition (Coronas)	Type 1	26) Average Annual Rainfall		
27) Main Crops	Rice, Ampalaya			
28) Towns / Province Served	Towns	Province	Area (ha)	
	Imus	Cavite	640.733	
	Dasmariñas	Cavite	300.2625	
	<b>Total</b>		<b>0</b>	
29) Irrigated / Benefited Area				
Average	1985-1995			
Season	Wet	Dry	Third	
Irrigated Area (ha)	522.0421	11.875		
Benefited Area (ha)	457.7959	11.875		
Average Yield (cavi/ha)	59	65		
30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance	Nature of Contract	Number of FIA	Length of Canal (km) under contract	Area Covered (ha)
	Stage 1			
31) Future Expansion				
32) Deterioration of the System	Canal Rehabilitation and Improvement			
33) Other Information				



NATIONAL WATER RESOURCES BOARD

SALIENT FEATURES OF NATIONAL IRRIGATION SYSTEM

Name of System		HANAGDON		
1) Water Resources Region	4	2) Source of Water Supply	Hanagdon River	
3) Approved Water Rights	398	4) Official Opening of the System	1944	
5) Original Construction Cost	P 100,000.00	6) Date of Rehabilitation	1977-1996 (incl. Dumacaa)	
7) Cost of Rehabilitation	P1,335,709.00	8) Current Status	Operating System	
9) Firmed-up Service Area	329	10) Designed Area	329	
11) Potential Area	329	12) Number of Landowners	32	
13) Number of Farmers Served	218	14) Average Farm Size	2	
15) Number of Lots	40	16) Diversion Type	Diversion Dam	
17) Diversion Capacity	0.05	18) Length of Main Canal	7.3	
19) Length of Laterals	1.8	20) Number of Turnouts	7	
21) Length of Service Roads	7.3	22) Length of Access Roads	3660	
23) Drainage Density		24) Farmditch Density	69.56	
25) Climatic Condition (Coronas)	Type II'	26) Average Annual Rainfall	4380	
27) Main Crops	Rice			
28) Towns / Province Served	Towns	Province	Area (ha)	
	Sariaya	Quezon	329	
	Total			0
29) Irrigated / Benefited Area				
Average	1985-1995			
Season	Wet	Dry	Third	
Irrigated Area (ha)	291	252		
Benefited Area (ha)	259	225		
Average Yield (cav/ha)	65	70		
30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance	Nature of Contract	Number of FIA	Length of Canal (km) under contract	Area Covered (ha)
	Stage II	1	3.71	95.16
31) Future Expansion				
32) Deterioration of the System	Existing earth canal should be lined to avoid scouring of embankment.			
33) Other Information				



NATIONAL WATER RESOURCES BOARD

SALIENT FEATURES OF NATIONAL IRRIGATION SYSTEM

Name of System		KAY-AKLE RIVER		
1) Water Resources Region	4	2) Source of Water Supply	Kay-Akle River	
3) Approved Water Rights		4) Official Opening of the System		
5) Original Construction Cost		6) Date of Rehabilitation		
7) Cost of Rehabilitation		8) Current Status	Operating system	
9) Firmed-up Service Area	374.459	10) Designed Area	378.296	
11) Potential Area	378.296	12) Number of Landowners	260	
13) Number of Farmers Served	260	14) Average Farm Size	1.45	
15) Number of Lots	260	16) Diversion Type	Diversion Dam	
17) Diversion Capacity	567	18) Length of Main Canal	12.525	
19) Length of Laterals		20) Number of Turnouts	47	
21) Length of Service Roads	8.26	22) Length of Access Roads		
23) Drainage Density		24) Farmditch Density		
25) Climatic Condition (Coronas)	Type 1	26) Average Annual Rainfall		
27) Main Crops	Rice			
28) Towns / Province Served	<b>Towns</b>	<b>Province</b>	<b>Area (ha)</b>	
	Maragondon	Cavite	3,489.19	
	Ternate	Cavite	3,414.1	
	<b>Total</b>		<b>0</b>	
29) Irrigated / Benefitted Area				
Average	1985-1995			
Season	Wet	Dry	Third	
Irrigated Area (ha)	324	257		
Benefitted Area (ha)	268	257		
Average Yield (cav/ha)	61	83		
30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance	Nature of Contract	Number of FIA	Length of Canal (km) under contract	Area Covered (ha)
	Type 1	1	5.997	166
31) Future Expansion	Expansion of 100 ha.			
32) Deterioration of the System	Canal Rehabilitation and Improvement			
33) Other Information	In Stage II, Length of canal under contract is 12.525, and Area covered is 369.2309			





NATIONAL WATER RESOURCES BOARD

SALIENT FEATURES OF NATIONAL IRRIGATION SYSTEM

Name of System		LAGNAS		
1) Water Resources Region	4	2) Source of Water Supply	Lagnas and Bulakin River	
3) Approved Water Rights	1000	4) Official Opening of the System	Aug. 16, 1958	
5) Original Construction Cost	P 300,000.00	6) Date of Rehabilitation	1977 - 1996 (incl. Dumacao)	
7) Cost of Rehabilitation		8) Current Status	Operating System	
9) Firmed-up Service Area	857	10) Designed Area	753	
11) Potential Area	753	12) Number of Landowners	344	
13) Number of Farmers Served	496	14) Average Farm Size	1	
15) Number of Lots	544	16) Diversion Type	Diversion Dam	
17) Diversion Capacity	1.3	18) Length of Main Canal	6.26	
19) Length of Laterals	8.6	20) Number of Turnouts	46	
21) Length of Service Roads	13.17	22) Length of Access Roads	1.78	
23) Drainage Density		24) Farmditch Density	23.5	
25) Climatic Condition (Coronas)	Type II	26) Average Annual Rainfall	5475	
27) Main Crops	Rice			
28) Towns / Province Served	Towns	Province	Area (ha)	
	Tiaong	Quezon	85	
		Total	0	
29) Irrigated / Benefitted Area	1985-1995			
Average Season	Wet	Dry	Third	
Irrigated Area (ha)	601	506		
Benefitted Area (ha)	515	452		
Average Yield (cav/ha)	65	70		
30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance	Nature of Contract	Number of FIA	Length of Canal (km) under contract	Area Covered (ha)
31) Future Expansion				
32) Deterioration of the System	Existing earth canal should be lined to avoid scouring of embankment.			
33) Other Information				



NATIONAL WATER RESOURCES BOARD

SALIENT FEATURES OF NATIONAL IRRIGATION SYSTEM

Name of System		LUKSUHIN-MAKULING		
1) Water Resources Region	4	2) Source of Water Supply	Malinta River	
3) Approved Water Rights		4) Official Opening of the System	Spanish Time	
5) Original Construction Cost		6) Date of Rehabilitation		
7) Cost of Rehabilitation		8) Current Status	Operating system	
9) Firmed-up Service Area	498.1639	10) Designed Area	900	
11) Potential Area	900	12) Number of Landowners	312	
13) Number of Farmers Served	401	14) Average Farm Size	1.24	
15) Number of Lots	359	16) Diversion Type	Diversion Dam	
17) Diversion Capacity	1350	18) Length of Main Canal	17.698	
19) Length of Laterals	13.603	20) Number of Turnouts	108	
21) Length of Service Roads	1.25	22) Length of Access Roads		
23) Drainage Density		24) Farmditch Density		
25) Climatic Condition (Coronas)	Type I	26) Average Annual Rainfall		
27) Main Crops	Rice, Ampalaya			
28) Towns / Province Served	<b>Towns</b>	<b>Province</b>	<b>Area (ha)</b>	
	Inus	Cavite	258.496	
	Dasmariñas	Cavite	606.458	
	<b>Total</b>		<b>0</b>	
29) Irrigated / Benefited Area				
Average	1985-1995			
Season	Wet	Dry	Third	
Irrigated Area (ha)	594.8032			
Benefited Area (ha)	539.9494			
Average Yield (cav/ha)	54			
30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance	Nature of Contract	Number of FIA	Length of Canal (km) under contract	Area Covered (ha)
	Stage 1			
31) Future Expansion				
32) Deterioration of the System	Canal Rehabilitation and Improvement			
33) Other Information				



NATIONAL WATER RESOURCES BOARD

SALIENT FEATURES OF NATIONAL IRRIGATION SYSTEM

Name of System		LUMBAN		
1) Water Resources Region	4	2) Source of Water Supply	NPC Tailrace and Lenin Cr.	
3) Approved Water Rights		4) Official Opening of the System	Apr. 16, 1967	
5) Original Construction Cost	P 100,000.00	6) Date of Rehabilitation		
7) Cost of Rehabilitation		8) Current Status	Operating System	
9) Firmed-up Service Area	102	10) Designed Area		
11) Potential Area	200	12) Number of Landowners	84	
13) Number of Farmers Served	100	14) Average Farm Size	0.8304	
15) Number of Lots	123	16) Diversion Type	Intake	
17) Diversion Capacity	0.11	18) Length of Main Canal	4.662	
19) Length of Laterals	1.058	20) Number of Turnouts	5	
21) Length of Service Roads		22) Length of Access Roads	8	
23) Drainage Density	11.76	24) Farmditch Density	29.28	
25) Climatic Condition (Coronas)	Type IV	26) Average Annual Rainfall		
27) Main Crops	Rice, Corn, Vegetables			
28) Towns / Province Served	Towns	Province	Area (ha)	
	Lumban	Laguna	102	
	Total		0	
29) Irrigated / Benefitted Area	Average	1985-1995		
	Season	Wet	Dry	Third
	Irrigated Area (ha)	50,1156	97,1894	
	Benefitted Area (ha)	42,8017	94,9774	
	Average Yield (cav/ha)	65	90	
30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance	Nature of Contract	Number of FIA	Length of Canal (km) under contract	Area Covered (ha)
	Type 1 & 2	1	5.72	
31) Future Expansion	The expansion depends on available water supply. If water supply is available, 100 ha. be additional service area.			
32) Deterioration of the System	Improvement of canal and structures are yearly programmed.			
33) Other Information				



NATIONAL WATER RESOURCES BOARD

SALIENT FEATURES OF NATIONAL IRRIGATION SYSTEM

Name of System		MABACAN		
1) Water Resources Region	4	2) Source of Water Supply	Mabacan River	
3) Approved Water Rights	364	4) Official Opening of the System	Jun. 16, 1961	
5) Original Construction Cost	P 600,000.00	6) Date of Rehabilitation	1990, IOSP	
7) Cost of Rehabilitation		8) Current Status	Operating System	
9) Firmed-up Service Area	390	10) Designed Area	1100	
11) Potential Area	1100	12) Number of Landowners	180	
13) Number of Farmers Served	361	14) Average Farm Size	2.029	
15) Number of Lots	207	16) Diversion Type	Low overflow dam	
17) Diversion Capacity	2.54	18) Length of Main Canal	8.48	
19) Length of Laterals	9.564	20) Number of Turnouts	33	
21) Length of Service Roads		22) Length of Access Roads	18.14	
23) Drainage Density	25	24) Farmlitch Density	13	
25) Climatic Condition (Coronas)	Type IV	26) Average Annual Rainfall		
27) Main Crops	Rice, Watermelon, Corn, Vegetables			
28) Towns / Province Served	<b>Towns</b>	<b>Province</b>	<b>Area (ha)</b>	
	L. Banos	Laguna	25	
	Bay	Laguna	273	
	Cabanun	Laguna	92	
	<b>Total</b>		<b>0</b>	
29) Irrigated / Benefitted Area				
Average	1985-1995			
Season	<b>Wet</b>	<b>Dry</b>	<b>Thrd</b>	
Irrigated Area (ha)	498.9975	528.5997		
Benefitted Area (ha)	447.1043	518.9345		
Average Yield (cav/ha)	63	86		
30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance	<b>Nature of Contract</b>	<b>Number of FIA</b>	<b>Length of Canal (km) under contract</b>	<b>Area Covered (ha)</b>
	Stage I, Type 1 & 2	1	3	88
31) Future Expansion	The expansion depends on available water supply. If water supply is available, 100 ha. will be the expansion area.			
32) Deterioration of the System	Improvement of canal and structures are yearly programmed.			
33) Other Information				



NATIONAL WATER RESOURCES BOARD

SALIENT FEATURES OF NATIONAL IRRIGATION SYSTEM

Name of System		MACABLING		
1) Water Resources Region	4	2) Source of Water Supply	Sta. Rosa River	
3) Approved Water Rights		4) Official Opening of the System	Friars era	
5) Original Construction Cost		6) Date of Rehabilitation	On-going IOSP	
7) Cost of Rehabilitation	P 915,970.57	8) Current Status	Operating system	
9) Firmed-up Service Area	680	10) Designed Area		
11) Potential Area		12) Number of Landowners	211	
13) Number of Farmers Served	287	14) Average Farm Size	1.84	
15) Number of Lots	369	16) Diversion Type	Run-of-river	
17) Diversion Capacity	1.32	18) Length of Main Canal	6.55	
19) Length of Laterals	3.4	20) Number of Turnouts	13	
21) Length of Service Roads	9.17	22) Length of Access Roads	3.65	
23) Drainage Density	4.64	24) Farmditch Density	59	
25) Climatic Condition (Coronas)	Type IV	26) Average Annual Rainfall	1457	
27) Main Crops	Rice, Garlic, Watermelon			
28) Towns / Province Served	Towns	Province	Area (ha)	
	Sta. Rosa	Logona	680	
		<b>Total</b>		<b>0</b>
29) Irrigated / Benefited Area	Average 1985-1995			
	Season	Wet	Dry	Third
	Irrigated Area (ha)	645	474	
	Benefited Area (ha)	615	471	
	Average Yield (cav/ha)	60	63	
30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance	Nature of Contract	Number of FIA	Length of Canal (km) under contract	Area Covered (ha)
31) Future Expansion				
32) Deterioration of the System	Access road needs repair. The system needs rehab. Drainage & flood control needs rehabilitation.			
33) Other Information				



NATIONAL WATER RESOURCES BOARD

SALIENT FEATURES OF NATIONAL IRRIGATION SYSTEM

Name of System		MAG-ASAWANG TUBIG		
1) Water Resources Region	4	2) Source of Water Supply	Mag-asawa Tubig & Mapalo R.	
3) Approved Water Rights	10128	4) Official Opening of the System	Nov. 1987	
5) Original Construction Cost		6) Date of Rehabilitation	Jul. 1987	
7) Cost of Rehabilitation		8) Current Status	Operating system	
9) Firmed-up Service Area	1700	10) Designed Area	3600	
11) Potential Area	3600	12) Number of Landowners	1192	
13) Number of Farmers Served	1382	14) Average Farm Size	3	
15) Number of Lots	570	16) Diversion Type	Intake	
17) Diversion Capacity		18) Length of Main Canal	16.03	
19) Length of Laterals	28.24	20) Number of Turnouts	127	
21) Length of Service Roads	57.79	22) Length of Access Roads		
23) Drainage Density		24) Farmditch Density		
25) Climatic Condition (Coronas)	Type IV	26) Average Annual Rainfall	4.9	
27) Main Crops	Rice			
28) Towns / Province Served	<b>Towns</b>	<b>Province</b>	<b>Area (ha)</b>	
	Nanjan	Oriental Mindoro	1200	
	Victoria	Oriental Mindoro	500	
	<b>Total</b>		<b>0</b>	
29) Irrigated / Benefitted Area	1985-1995			
Average Season	<b>Wet</b>	<b>Dry</b>	<b>Third</b>	
Irrigated Area (ha)	998	1248		
Benefitted Area (ha)	926	1145		
Average Yield (cav/ha)	80	80		
30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance	<b>Nature of Contract</b>	<b>Number of FIA</b>	<b>Length of Canal (km) under contract</b>	<b>Area Covered (ha)</b>
31) Future Expansion				
32) Deterioration of the System	Perennial siltation due to watershed ecological disorder.			
33) Other Information				



NATIONAL WATER RESOURCES BOARD

SALIENT FEATURES OF NATIONAL IRRIGATION SYSTEM

Name of System		MALAUNOD			
1) Water Resources Region	4	2) Source of Water Supply		Malaunod River	
3) Approved Water Rights	35	4) Official Opening of the System		Sept. 18, 1950	
5) Original Construction Cost	P 104,757.00	6) Date of Rehabilitation		1990 IOSP	
7) Cost of Rehabilitation		8) Current Status		Operating System	
9) Firmed-up Service Area	228	10) Designed Area		233	
11) Potential Area	233	12) Number of Landowners		121	
13) Number of Farmers Served	200	14) Average Farm Size		1.1696	
15) Number of Lots	195	16) Diversion Type		Ogee Dam	
17) Diversion Capacity	1.131	18) Length of Main Canal		5.8	
19) Length of Laterals	7.2	20) Number of Turnouts		27	
21) Length of Service Roads		22) Length of Access Roads		8.34	
23) Drainage Density	0.88	24) Farmditch Density		13.6	
25) Climatic Condition (Coronas)	Type IV	26) Average Annual Rainfall			
27) Main Crops	Rice, Vegetables, Ampalaya				
28) Towns / Province Served	<b>Towns</b>	<b>Province</b>		<b>Area (ha)</b>	
	San Pablo	Tugana		215	
	Tioong	Tugana		13	
	<b>Total</b>			<b>0</b>	
29) Irrigated / Benefitted Area	Average				
	Season				
	Wet		Dry		Third
	Irrigated Area (ha)		222.2407		221.9407
	Benefitted Area (ha)		209.8837		217.246
Average Yield (cav/ha)		62		81	
30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance	Nature of Contract		Number of FIA		Length of Canal (km) under contract
	Type 1 & 2		1		13.005
				Area Covered (ha)	
				228	
31) Future Expansion	The present area comprises the whole area that can be planted with palyay.				
32) Deterioration of the System	Improvement of canal and structures are yearly programmed.				
33) Other Information					



NATIONAL WATER RESOURCES BOARD

SALIENT FEATURES OF NATIONAL IRRIGATION SYSTEM

Name of System		MATANDA		
1) Water Resources Region	4	2) Source of Water Supply	Quintana River	
3) Approved Water Rights		4) Official Opening of the System	Spanish Time	
5) Original Construction Cost		6) Date of Rehabilitation		
7) Cost of Rehabilitation		8) Current Status	Operating system	
9) Firmed-up Service Area	1347.7657	10) Designed Area	1967.5261	
11) Potential Area	1967.5267	12) Number of Landowners	425	
13) Number of Farmers Served	761	14) Average Farm Size	1.8	
15) Number of Lots	784	16) Diversion Type	Diversion Dam (reservoir typ)	
17) Diversion Capacity	2951.28	18) Length of Main Canal	11692	
19) Length of Laterals	24925	20) Number of Turnouts	246	
21) Length of Service Roads	41.82	22) Length of Access Roads		
23) Drainage Density		24) Farnditch Density		
25) Climatic Condition (Coronas)	Type I	26) Average Annual Rainfall		
27) Main Crops	Rice			
28) Towns / Province Served	Towns	Province	Area (ha)	
	Tanza	cauite	1967.5261	
	Total		0	
29) Irrigated / Benefitted Area	1985-1995			
Average Season	Wet	Dry	Thrd	
Irrigated Area (ha)	762.9798	180.06		
Benefitted Area (ha)	642.9203	180.06		
Average Yield (cay/ha)	58.5	69.98		
30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance	Nature of Contract	Number of FIA	Length of Canal (km) under contract	Area Covered (ha)
	Stage I			
31) Future Expansion				
32) Deterioration of the System				
33) Other Information				





NATIONAL WATER RESOURCES BOARD

SALIENT FEATURES OF NATIONAL IRRIGATION SYSTEM

Name of System		MAYOR		
1) Water Resources Region	1	2) Source of Water Supply	Mayor River	
3) Approved Water Rights		4) Official Opening of the System	May, 24, 1957	
5) Original Construction Cost	P 192,000.00	6) Date of Rehabilitation	1976-1984	
7) Cost of Rehabilitation		8) Current Status	Operating system	
9) Firmed-up Service Area	374	10) Designed Area	400	
11) Potential Area	472	12) Number of Landowners	700	
13) Number of Farmers Served	1300	14) Average Farm Size	0.25	
15) Number of Lots	1500	16) Diversion Type	Diversion Dam	
17) Diversion Capacity		18) Length of Main Canal	6.899	
19) Length of Laterals	11.803	20) Number of Turnouts	29	
21) Length of Service Roads	4.853	22) Length of Access Roads		
23) Drainage Density		24) Farmditch Density		
25) Climatic Condition (Coronas)	Type IV	26) Average Annual Rainfall	912.5	
27) Main Crops	Rice			
28) Towns / Province Served	Towns	Province	Area (ha)	
	Mabinac	Ilogona	120	
	Famy	Ilogona	98	
	Sinloan	Ilogona	154	
	Total		0	
29) Irrigated / Benefited Area	Average	1985-1995		
	Season	Wet	Dry	Third
	Irrigated Area (ha)	202.6	226.5	
	Benefited Area (ha)	106.5	192.5	
	Average Yield (cav/ha)	65	70	
30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance	Nature of Contract	Number of FIA	Length of Canal (km) under contract	Area Covered (ha)
	Type I	1	18.707	372
31) Future Expansion				
32) Deterioration of the System	Deterioration of canal embankments in all parts of the system.			
33) Other Information				



NATIONAL WATER RESOURCES BOARD

SALIENT FEATURES OF NATIONAL IRRIGATION SYSTEM

Name of System		<b>MOLINO (CAVITE FRIAR LANDS)</b>		
1) Water Resources Region	4	2) Source of Water Supply	Dona Celia River	
3) Approved Water Rights		4) Official Opening of the System	Spanish Time	
5) Original Construction Cost		6) Date of Rehabilitation		
7) Cost of Rehabilitation		8) Current Status	Operating system	
9) Firmed-up Service Area	208 8423	10) Designed Area	450	
11) Potential Area	450	12) Number of Landowners	87	
13) Number of Farmers Served	101	14) Average Farm Size	2.067	
15) Number of Lots	100	16) Diversion Type	Diversion Dam (reservoir typ	
17) Diversion Capacity	0.675	18) Length of Main Canal	12.196	
19) Length of Laterals	5.495	20) Number of Turnouts	55	
21) Length of Service Roads	10.02	22) Length of Access Roads	1.51	
23) Drainage Density		24) Farmditch Density		
25) Climatic Condition (Coronas)	Type I	26) Average Annual Rainfall		
27) Main Crops	Rice			
28) Towns / Province Served	Towns	Province	Area (ha)	
	Bacoor	Cavite	442 5005	
<b>Total</b>				
<b>0</b>				
29) Irrigated / Benefitted Area				
Average	1985-1995			
Season	Wet	Dry	Third	
Irrigated Area (ha)	307.8174			
Benefitted Area (ha)	263.1073			
Average Yield (cav/ha)	58.75			
30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance	Nature of Contract	Number of FIA	Length of Canal (km) under contract	Area Covered (ha)
	Stage I			
31) Future Expansion				
32) Deterioration of the System	Canal Rehabilitation and Improvement			
33) Other Information				



NATIONAL WATER RESOURCES BOARD

SALIENT FEATURES OF NATIONAL IRRIGATION SYSTEM

Name of System		MONGPONG			
1) Water Resources Region	1	2) Source of Water Supply		Mongpong River	
3) Approved Water Rights		4) Official Opening of the System		May. 13, 1991	
5) Original Construction Cost		6) Date of Rehabilitation		On-going IOSP	
7) Cost of Rehabilitation		8) Current Status		Operating System	
9) Firmed-up Service Area	892	10) Designed Area		2400	
11) Potential Area	1928	12) Number of Landowners		77	
13) Number of Farmers Served	75	14) Average Farm Size		9.8	
15) Number of Lots	90	16) Diversion Type		Intake	
17) Diversion Capacity		18) Length of Main Canal		11.354	
19) Length of Laterals	4.54	20) Number of Turnouts		34	
21) Length of Service Roads	15.172	22) Length of Access Roads			
23) Drainage Density		24) Farmditch Density		10.026	
25) Climatic Condition (Coronas)	Type IV	26) Average Annual Rainfall			
27) Main Crops	Rice				
28) Towns / Province Served	<b>Towns</b>	<b>Province</b>		<b>Area (ha)</b>	
	Sablayan	Occidental Mindoro		892	
	<b>Total</b>			<b>0</b>	
29) Irrigated / Benefitted Area	Average				
	Season				
	Irrigated Area (ha)				
	Benefitted Area (ha)				
	Average Yield (cav/ha)				
1985-1995					
<b>Wet</b>		<b>Dry</b>		<b>Third</b>	
250		200			
250		200			
75		70			
30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance	<b>Nature of Contract</b>	<b>Number of FIA</b>		<b>Length of Canal (km) under contract</b>	<b>Area Covered (ha)</b>
	Type 1 & 2	4		4.48	192
31) Future Expansion	Additional area can be generated if additional facilities can be extended to lower areas.				
32) Deterioration of the System	Frequent brushdamming esp. during wet season				
33) Other Information	Scarce irrigation water supply during dry season				



NATIONAL WATER RESOURCES BOARD

SALIENT FEATURES OF NATIONAL IRRIGATION SYSTEM

Name of System		PALICO		
1) Water Resources Region	4	2) Source of Water Supply	Palico River	
3) Approved Water Rights	1300	4) Official Opening of the System	1951	
5) Original Construction Cost		6) Date of Rehabilitation	1975-1986	
7) Cost of Rehabilitation	P 8,648,755.00	8) Current Status	Operating System	
9) Firmed-up Service Area	886	10) Designed Area	886	
11) Potential Area	886	12) Number of Landowners	805	
13) Number of Farmers Served	785	14) Average Farm Size	1.01	
15) Number of Lots	878	16) Diversion Type	Diversion Dam	
17) Diversion Capacity		18) Length of Main Canal	8 395	
19) Length of Laterals	23 065	20) Number of Turnouts	76	
21) Length of Service Roads	21.66	22) Length of Access Roads		
23) Drainage Density	16.7	24) Farmditch Density	19.09	
25) Climatic Condition (Coronas)	Type II'	26) Average Annual Rainfall		
27) Main Crops	Rice			
28) Towns / Province Served	<b>Towns</b>	<b>Province</b>	<b>Area (ha)</b>	
	Nasugbu	Batangas	732	
	Lian	Batangas	134	
	<b>Total</b>		<b>0</b>	
29) Irrigated / Benefited Area	1985-1995			
Average Season	Wet	Dry	Third	
Irrigated Area (ha)	788	780		
Benefited Area (ha)	746	781		
Average Yield (cav/ha)	70	75		
30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance	Nature of Contract	Number of FIA	Length of Canal (km) under contract	Area Covered (ha)
31) Future Expansion				
32) Deterioration of the System	Deterioration of various control gates.			
33) Other Information	Portion of the area is planted with annual crops (sugarcane)			



NATIONAL WATER RESOURCES BOARD

SALIENT FEATURES OF NATIONAL IRRIGATION SYSTEM

Name of System		PLUCENA-BAYAN		
1) Water Resources Region	4	2) Source of Water Supply	Panaysayun River	
3) Approved Water Rights		4) Official Opening of the System	Spanish Time	
5) Original Construction Cost		6) Date of Rehabilitation		
7) Cost of Rehabilitation		8) Current Status	Operating system	
9) Firmed-up Service Area	342 3635	10) Designed Area	510	
11) Potential Area	510	12) Number of Landowners	142	
13) Number of Farmers Served	181	14) Average Farm Size	1.8606	
15) Number of Lots	163	16) Diversion Type	Diversion Dam	
17) Diversion Capacity	0.765	18) Length of Main Canal	12.407	
19) Length of Laterals	12.174	20) Number of Turnouts	63	
21) Length of Service Roads	11.64	22) Length of Access Roads	2.28	
23) Drainage Density		24) Farmditch Density		
25) Climatic Condition (Coronas)	Type I	26) Average Annual Rainfall		
27) Main Crops	Rice, Watermelon			
28) Towns / Province Served	Towns	Province	Area (ha)	
	Gen. Trias	Cavite	506.6429	
	Total		0	
29) Irrigated / Benefitted Area	1985-1995			
Average Season	Wet	Dry	Third	
Irrigated Area (ha)	410.8371	96.7421		
Benefitted Area (ha)	343.825	96.7421		
Average Yield (cav/ha)	65	83		
30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance	Nature of Contract	Number of FIA	Length of Canal (km) under contract	Area Covered (ha)
	Stage I			
31) Future Expansion				
32) Deterioration of the System	Canal Rehabilitation and Improvement			
33) Other Information				



NATIONAL WATER RESOURCES BOARD

SALIENT FEATURES OF NATIONAL IRRIGATION SYSTEM

Name of System		PULA		
1) Water Resources Region	4	2) Source of Water Supply	Pula River	
3) Approved Water Rights	9000	4) Official Opening of the System	Dec. 15, 1960	
5) Original Construction Cost	P 1,594,000.00	6) Date of Rehabilitation	1975-1985	
7) Cost of Rehabilitation	P 109,000,000.00	8) Current Status	Operating System	
9) Firmed-up Service Area	2690	10) Designed Area	3119	
11) Potential Area	3119	12) Number of Landowners	1642	
13) Number of Farmers Served	1523	14) Average Farm Size	1.09	
15) Number of Lots	2476	16) Diversion Type	Diversion Dam	
17) Diversion Capacity	5	18) Length of Main Canal	14 375	
19) Length of Laterals	31.391	20) Number of Turnouts	90	
21) Length of Service Roads	30.403	22) Length of Access Roads	22.75	
23) Drainage Density	13.41	24) Farmditch Density	71.42	
25) Climatic Condition (Coronas)	Type IV	26) Average Annual Rainfall	2329.6	
27) Main Crops	Rice, Monggo, Watermelon			
28) Towns / Province Served	<b>Towns</b>	<b>Province</b>	<b>Area (ha)</b>	
	Panamalyan	Oriental Mindoro	2694	
	Socorro	Oriental Mindoro	283	
	Pola	Oriental Mindoro	43	
	<b>Total</b>		<b>0</b>	
29) Irrigated / Benefitted Area	Average 1985-1995			
Season	Wet	Dry	Third	
Irrigated Area (ha)	2528.48	2394.1		
Benefitted Area (ha)	2586.11	2400.74		
Average Yield (cav/ha)	73	76		
30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance	Nature of Contract	Number of FIA	Length of Canal (km) under contract	Area Covered (ha)
31) Future Expansion	Expansion of 700 ha in Socorro area.			
32) Deterioration of the System	Sluice gate needs upgrading Rehabilitation of protection dike.			
33) Other Information				



NATIONAL WATER RESOURCES BOARD

SALIENT FEATURES OF NATIONAL IRRIGATION SYSTEM

Name of System		SAHING			
1) Water Resources Region	1	2) Source of Water Supply		Sahing River	
3) Approved Water Rights		4) Official Opening of the System		Spanish time	
5) Original Construction Cost		6) Date of Rehabilitation			
7) Cost of Rehabilitation		8) Current Status		Operating system	
9) Firmed-up Service Area	264.8261	10) Designed Area		470.2997	
11) Potential Area	470.2992	12) Number of Landowners		229	
13) Number of Farmers Served	229	14) Average Farm Size		2.05	
15) Number of Lots	229	16) Diversion Type		Diversion Dam	
17) Diversion Capacity	705	18) Length of Main Canal		5.87	
19) Length of Laterals	7.958	20) Number of Turnouts		58	
21) Length of Service Roads	8.11	22) Length of Access Roads			
23) Drainage Density		24) Farmditch Density			
25) Climatic Condition (Coronas)	Type I	26) Average Annual Rainfall			
27) Main Crops	Rice				
28) Towns / Province Served	Towns	Province		Area (ha)	
	Naic	Cavite		470.2997	
		Total		0	
29) Irrigated / Benefitted Area					
Average	1985-1995				
Season	Wet	Dry	Third		
Irrigated Area (ha)	284	128			
Benefitted Area (ha)	273	128			
Average Yield (cav/ha)	61	83			
30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance	Nature of Contract	Number of FIA	Length of Canal (km) under contract	Area Covered (ha)	
	Stage I				
31) Future Expansion					
32) Deterioration of the System	Canal Rehabilitation and Improvement				
33) Other Information					



NATIONAL WATER RESOURCES BOARD

SALIENT FEATURES OF NATIONAL IRRIGATION SYSTEM

Name of System		SAN CRISTOBAL		
1) Water Resources Region	4	2) Source of Water Supply	San Cristobal River	
3) Approved Water Rights		4) Official Opening of the System	Friars era	
5) Original Construction Cost		6) Date of Rehabilitation	On-going IOSP	
7) Cost of Rehabilitation	P 1,101,265.93	8) Current Status	Operating system	
9) Firmed-up Service Area	413	10) Designed Area		
11) Potential Area		12) Number of Landowners	184	
13) Number of Farmers Served	302	14) Average Farm Size	1	
15) Number of Lots	413	16) Diversion Type	Run-of-river	
17) Diversion Capacity	1.31	18) Length of Main Canal	8.2	
19) Length of Laterals	0.09	20) Number of Turnouts	18	
21) Length of Service Roads	8.8	22) Length of Access Roads	2.3	
23) Drainage Density	21.66	24) Farmduch Density	82	
25) Climatic Condition (Coronas)	Type IV	26) Average Annual Rainfall	1361	
27) Main Crops	Rice, Garlic, Vegetables			
28) Towns / Province Served	<b>Towns</b>	<b>Province</b>	<b>Area (ha)</b>	
	Columbo	Logona	413	
	<b>Total</b>		<b>0</b>	
29) Irrigated / Benefitted Area	<b>Average 1985-1995</b>			
	<b>Season</b>	<b>Wet</b>	<b>Dry</b>	<b>Third</b>
	<b>Irrigated Area (ha)</b>	369	367	
	<b>Benefitted Area (ha)</b>	354	367	
	<b>Average Yield (cav/ha)</b>	71	75	
30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance	<b>Nature of Contract</b>	<b>Number of FIA</b>	<b>Length of Canal (km) under contract</b>	<b>Area Covered (ha)</b>
31) Future Expansion				
32) Deterioration of the System	The system needs rehab. Access road needs repair.			
33) Other Information				





NATIONAL WATER RESOURCES BOARD

SALIENT FEATURES OF NATIONAL IRRIGATION SYSTEM

Name of System		SAN JUAN		
1) Water Resources Region	4	2) Source of Water Supply	San Juan River	
3) Approved Water Rights		4) Official Opening of the System	Friars era	
5) Original Construction Cost		6) Date of Rehabilitation	On-going IOSP	
7) Cost of Rehabilitation		8) Current Status	Operating system	
9) Firmed-up Service Area	552	10) Designed Area		
11) Potential Area		12) Number of Landowners	252	
13) Number of Farmers Served	338	14) Average Farm Size	1.11	
15) Number of Lots	496	16) Diversion Type	Run-of-the-river	
17) Diversion Capacity	3.31	18) Length of Main Canal	7.65	
19) Length of Laterals	4.22	20) Number of Turnouts	12	
21) Length of Service Roads	3.8	22) Length of Access Roads		
23) Drainage Density	20.68	24) Farmditch Density	55	
25) Climatic Condition (Coronas)	Type II	26) Average Annual Rainfall	1898	
27) Main Crops	Rice, Garlic, Vegetables			
28) Towns / Province Served	Towns	Province	Area (ha)	
	Colamba	Logona	552	
		Total	0	
29) Irrigated / Benefitted Area	Average	1985-1995		
	Season	Wet	Dry	Third
	Irrigated Area (ha)	471	491	
	Benefitted Area (ha)	399	488	
	Average Yield (cav/ha)	73	81	
30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance	Nature of Contract	Number of FIA	Length of Canal (km) under contract	Area Covered (ha)
31) Future Expansion				
32) Deterioration of the System	The system needs rehab. Access road needs repair.			
33) Other Information				



NATIONAL WATER RESOURCES BOARD

SALIENT FEATURES OF NATIONAL IRRIGATION SYSTEM

Name of System		SANTA MARIA		
1) Water Resources Region	4	2) Source of Water Supply	Sta. Maria & Mata Rivers	
3) Approved Water Rights	2100	4) Official Opening of the System	Oct. 2, 1961	
5) Original Construction Cost	P 981,000.00	6) Date of Rehabilitation	1976-1984, 1988-present	
7) Cost of Rehabilitation		8) Current Status	Operating system	
9) Firmed-up Service Area	801	10) Designed Area	2380	
11) Potential Area	945	12) Number of Landowners	500	
13) Number of Farmers Served	1000	14) Average Farm Size	1.74	
15) Number of Lots	1605	16) Diversion Type	Diversion Dam	
17) Diversion Capacity		18) Length of Main Canal	13.387	
19) Length of Laterals	18.168	20) Number of Turnouts	46	
21) Length of Service Roads	49.926	22) Length of Access Roads		
23) Drainage Density		24) Farmditch Density		
25) Climatic Condition (Coronas)	Type IV	26) Average Annual Rainfall	916.15	
27) Main Crops	Rice			
28) Towns / Province Served	<b>Towns</b>	<b>Province</b>	<b>Area (ha)</b>	
	Sta. Maria	Laguna	693	
	Mabitoz	Laguna	168	
	<b>Total</b>		<b>0</b>	
29) Irrigated / Benefitted Area	1985-1995			
Average				
Season	<b>Wet</b>	<b>Dry</b>	<b>Third</b>	
Irrigated Area (ha)	727.4	756		
Benefitted Area (ha)	496.7	739.4		
Average Yield (cav/ha)	65	70		
30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance	<b>Nature of Contract</b>	<b>Number of FIA</b>	<b>Length of Canal (km) under contract</b>	<b>Area Covered (ha)</b>
	Type 1	1	31.555	801
31) Future Expansion	Restoration of previously installed pump irrigation system constructed under Laguna Bay Dev. Project - Irrigation Component.			
32) Deterioration of the System	Deterioration of canal embankments in all parts of the system.			
33) Other Information				



NATIONAL WATER RESOURCES BOARD

SALIENT FEATURES OF NATIONAL IRRIGATION SYSTEM

Name of System		STA. CRUZ		
1) Water Resources Region	4	2) Source of Water Supply	Sta. Cruz (Lopad) River	
3) Approved Water Rights	5000	4) Official Opening of the System	Aug. 1, 1958	
5) Original Construction Cost	P 2,520,000.00	6) Date of Rehabilitation	Sept. 1976 - Mar. 1985	
7) Cost of Rehabilitation	P 63,171,500.00	8) Current Status	Operating system	
9) Firmed-up Service Area	3100	10) Designed Area	4133	
11) Potential Area	4133	12) Number of Landowners	1826	
13) Number of Farmers Served	1753	14) Average Farm Size	1.1	
15) Number of Lots	2613	16) Diversion Type	Ogee Type Dam	
17) Diversion Capacity	4	18) Length of Main Canal	9.4	
19) Length of Laterals	67.501	20) Number of Turnouts	79	
21) Length of Service Roads	61.655	22) Length of Access Roads	40	
23) Drainage Density	22	24) Farmditch Density	29	
25) Climatic Condition (Coronas)	Type IV	26) Average Annual Rainfall	1396.12	
27) Main Crops	Rice, Watermelon, Corn			
28) Towns / Province Served	<b>Towns</b>	<b>Province</b>	<b>Area (ha)</b>	
	Caknan	Laguna	50	
	Victoria	Laguna	150	
	Lilaw	Laguna	52	
	Nagcarlan	Laguna	278	
	Pala	Laguna	1192	
	Sta. Cruz	Laguna	1318	
	<b>Total</b>			<b>0</b>
29) Irrigated / Benefitted Area				
Average	1985-1995			
Season	<b>Wet</b>	<b>Dry</b>	<b>Third</b>	
Irrigated Area (ha)	2635.2836	2397.1042		
Benefitted Area (ha)	2292.1438	2332.9064		
Average Yield (cav/ha)	70	95		
30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance	<b>Nature of Contract</b>	<b>Number of FIA</b>	<b>Length of Canal (km) under contract</b>	<b>Area Covered (ha)</b>
	Stage I, Type 1 & 2	2	13.2	589,8339
31) Future Expansion	The expansion depends on available water supply. If water supply is available, 625 ha will be the expansion area.			
32) Deterioration of the System	Improvement of canal and structures are yearly programmed.			
33) Other Information				



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SALIENT FEATURES OF NATIONAL IRRIGATION SYSTEM

Name of System		TRES-CRUSES		
1) Water Resources Region	4	2) Source of Water Supply	Timlan River	
3) Approved Water Rights		4) Official Opening of the System	Spanish time	
5) Original Construction Cost		6) Date of Rehabilitation		
7) Cost of Rehabilitation		8) Current Status	Operating system	
9) Firmed-up Service Area	633.6084	10) Designed Area	827.6687	
11) Potential Area	827.6687	12) Number of Landowners	162	
13) Number of Farmers Served	233	14) Average Farm Size	1.8	
15) Number of Lots	251	16) Diversion Type	Diversion Dam (reservoir typ	
17) Diversion Capacity	1241.5	18) Length of Main Canal	12830	
19) Length of Laterals	10448	20) Number of Turnouts	103.45	
21) Length of Service Roads	18.83	22) Length of Access Roads		
23) Drainage Density		24) Farmditch Density		
25) Climatic Condition (Coronas)	Type I	26) Average Annual Rainfall		
27) Main Crops	Rice			
28) Towns / Province Served	Towns	Province	Area (ha)	
	Tanza	Cavite	827.6687	
	Total		0	
29) Irrigated / Benefitted Area	Average 1985-1995			
Season	Wet	Dry	Third	
Irrigated Area (ha)	324	257		
Benefitted Area (ha)	268	257		
Average Yield (cav/ha)	61	83		
30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance	Nature of Contract	Number of FIA	Length of Canal (km) under contract	Area Covered (ha)
	Stage I			
31) Future Expansion				
32) Deterioration of the System				
33) Other Information				



Name of System		DAET-TALISAY RIS		
1) Water Resources Region	5	2) Source of Water Supply	Daet River and Talisay River	
3) Approved Water Rights	7.5 cu m /sec.	4) Official Opening of the System	June 30, 1957	
5) Original Construction Cost	P 4,200,000.00	6) Date of Rehabilitation	June 25, 1979; February 5, 19	
7) Cost of Rehabilitation	P 21,546,000.00; P 19,765,20	8) Current Status	Operating System	
9) Firmed-up Service Area	2603	10) Designed Area	3723	
11) Potential Area	3484.53	12) Number of Landowners	2973	
13) Number of Farmers Served	3340	14) Average Farm Size	0.88	
15) Number of Lots	4018	16) Diversion Type	Diversion Dam (Ogee)	
17) Diversion Capacity	6.0 cms	18) Length of Main Canal	21	
19) Length of Laterals	55.45	20) Number of Turnouts	186	
21) Length of Service Roads	43.64	22) Length of Access Roads	3.9	
23) Drainage Density	15	24) Farmditch Density	65	
25) Climatic Condition (Coronas)	Type II	26) Average Annual Rainfall	3550	
27) Main Crops	Rice			
28) Towns / Province Served	<b>Towns</b>	<b>Province</b>	<b>Area (ha)</b>	
	Daet	Camarines Norte	1251.2708	
	Basud	Camarines Norte	75.4627	
	Mercedes	Camarines Norte	18.4565	
	Talisay	Camarines Norte	716.84	
	Vinzons	Camarines Norte	541.06	
	<b>Total</b>			<b>0</b>
29) Irrigated / Benefitted Area	<b>Average</b>	<b>1985-1995</b>		
	<b>Season</b>	<b>Wet</b>	<b>Dry</b>	<b>Third</b>
	<b>Irrigated Area (ha)</b>	2291	2223	
	<b>Benefitted Area (ha)</b>	2281	2165	
	<b>Average Yield (cav/ha)</b>	73	73	
30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance	<b>Nature of Contract</b>	<b>Number of FIA</b>	<b>Length of Canal (km) under contract</b>	<b>Area Covered (ha)</b>
	Type I & II	9	63.001	2278
31) Future Expansion	Construction of additional source to cover Vinzons area. Sec. Escudero promised a financial assistance during his visit in the mentioned Irrigator's Association.			
32) Deterioration of the System	Deformed & worn-out canals that needs immediate lining repair. Other old structures like siphons & road crossing needs also to be replaced by new ones. Asphaltting of access/service roads is very necessary.			
33) Other Information	PNOC projects at the upstream of our watershed area is believe to give siltation at the upstream portion of the Alanihoo Dam. There's a need of 10 units 125 cc Yamaha motorcycle for easy access to all areas of the system, for IA contacts, meetings & inspec			



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SALIENT FEATURES OF NATIONAL IRRIGATION SYSTEM

Name of System		LIBMANAN / CABUSAO PIS		
1) Water Resources Region	5	2) Source of Water Supply	Libmanan River	
3) Approved Water Rights		4) Official Opening of the System	June 28, 1981	
5) Original Construction Cost	P 87,600,000.00	6) Date of Rehabilitation	1989-1996	
7) Cost of Rehabilitation	P 6,260,800.00	8) Current Status	Operational	
9) Firmed-up Service Area	2195	10) Designed Area	3427	
11) Potential Area	3873	12) Number of Landowners	1688	
13) Number of Farmers Served	1868	14) Average Farm Size	1.3	
15) Number of Lots	2841	16) Diversion Type	pump	
17) Diversion Capacity	6.05 cms	18) Length of Main Canal	11.17	
19) Length of Laterals	35.6	20) Number of Turnouts	119	
21) Length of Service Roads	40.61	22) Length of Access Roads		
23) Drainage Density	23	24) Farmditch Density	27	
25) Climatic Condition (Coronas)	July-Dec. - rainy; Jan.-June - d	26) Average Annual Rainfall		
27) Main Crops	Rice			
28) Towns / Province Served	Towns	Province	Area (ha)	
	Libmanan	Camarines Sur	1305.79	
	Cabusao	Camarines Sur	399	
	Total		0	
29) Irrigated / Benefitted Area				
Average	1985-1995			
Season	Wet	Dry	Third	
Irrigated Area (ha)	1428.8697	1630.1417		
Benefitted Area (ha)	1050.4347	1360.0769		
Average Yield (cav/ha)	85.7	87		
30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance	Nature of Contract	Number of FIA	Length of Canal (km) under contract	Area Covered (ha)
	Type I & II	11	39.659	2195
31) Future Expansion	Construction of additional sub-pumping stations in areas not served by the system can expand the irrigated area particularly in the Municipality of Cabusao.			
32) Deterioration of the System	There is a need for the complete rehabilitation of the system's facilities particularly the canal and drainage networks.			
33) Other Information				



NATIONAL WATER RESOURCES BOARD

SALIENT FEATURES OF NATIONAL IRRIGATION SYSTEM

Name of System		MAHABA-NASISI-OGSONG-HIBIGA		
1) Water Resources Region	5	2) Source of Water Supply	Mahaba R, Nasisi R, Ogsong R, Hibiga R	
3) Approved Water Rights	5,154 lps	4) Official Opening of the System	January 1, 1954	
5) Original Construction Cost	P 11,576,262.00	6) Date of Rehabilitation	1996-1997	
7) Cost of Rehabilitation	P 16,350,000.00	8) Current Status	Operating System	
9) Firmed-up Service Area	1944	10) Designed Area	1947	
11) Potential Area	2000	12) Number of Landowners	1431	
13) Number of Farmers Served	2937	14) Average Farm Size	0.89	
15) Number of Lots	3101	16) Diversion Type	Gravity Dam	
17) Diversion Capacity	5.0 cms	18) Length of Main Canal	36.745	
19) Length of Laterals	33.455	20) Number of Turnouts	72	
21) Length of Service Roads	37.95	22) Length of Access Roads		
23) Drainage Density	4.93	24) Farmditch Density	29.97	
25) Climatic Condition (Coronas)		26) Average Annual Rainfall	4345	
27) Main Crops	Rice			
28) Towns / Province Served	<b>Towns</b>	<b>Province</b>	<b>Area (ha)</b>	
	Iigao	Albay	890	
	Oas	Albay	637	
	Pohngui	Albay	417	
	<b>Total</b>		<b>0</b>	
29) Irrigated / Benefitted Area	1985-1995			
Average Season	<b>Wet</b>	<b>Dry</b>	<b>Third</b>	
Irrigated Area (ha)	1849	1819		
Benefitted Area (ha)	1834	1804		
Average Yield (cav/ha)	72	79		
30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance	<b>Nature of Contract</b>	<b>Number of FIA</b>	<b>Length of Canal (km) under contract</b>	<b>Area Covered (ha)</b>
	Stage III	6	70.2	1947
31) Future Expansion	Existing brush dams within the system are proposed into permanent concrete checkgates and/or run of the river type diversion works.			
32) Deterioration of the System	Concrete lining of all main canals and laterals for effective water distribution.			
33) Other Information				



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SALIENT FEATURES OF NATIONAL IRRIGATION SYSTEM

Name of System		<b>Dipolo IS</b>			
1) Water Resources Region	9	2) Source of Water Supply	Tinongan, Damingog, Guitran, Dipolo R.		
3) Approved Water Rights	3,000 lps	4) Official Opening of the System	June 1997		
5) Original Construction Cost	P 1,540,000.00	6) Date of Rehabilitation	1986-1987		
7) Cost of Rehabilitation	P 5,863,000.00	8) Current Status	Operating System		
9) Firmed-up Service Area	1600	10) Designed Area	1950		
11) Potential Area	1950	12) Number of Landowners	199		
13) Number of Farmers Served	447	14) Average Farm Size	1.86		
15) Number of Lots	113	16) Diversion Type	Diversion Dam		
17) Diversion Capacity	3.6046 cms.	18) Length of Main Canal	23.24		
19) Length of Laterals	19.32	20) Number of Turnouts	46		
21) Length of Service Roads	19.41	22) Length of Access Roads			
23) Drainage Density	17	24) Farmditch Density	34		
25) Climatic Condition (Coronas)	Type 3	26) Average Annual Rainfall	1244		
27) Main Crops	Rice				
28) Towns / Province Served	<b>Towns</b>	<b>Province</b>	<b>Area (ha)</b>		
	Damingog	Zamboanga del Sur	1600		
	<b>Total</b>		<b>0</b>		
29) Irrigated / Benefited Area					
Average	1985-1995				
Season	<b>Wet</b>	<b>Dry</b>	<b>Third</b>		
Irrigated Area (ha)	712	631			
Benefited Area (ha)	629	537			
Average Yield (cov/ha)	86	85			
30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance	<b>Nature of Contract</b>	<b>Number of FIA</b>	<b>Length of Canal (km) under contract</b>	<b>Area Covered (ha)</b>	
	Stage 1	3	17.94	150	
31) Future Expansion	The 750 ha. irrigated area will be increased to 1,640 ha under the scheme proposed by WRDP. There is a plan of the system to construct small impounding dam to irrigate addl. area of 2,000 ha.				
32) Deterioration of the System	The system has 4 Diversion dams and due to the problem of siltation it is included in the proposal under WRDP. At present there is a program for immediate repair of dams however, funds is not available.				
33) Other Information	The system is now undergoing rehabilitation work under IOSP - II and local funds.				





NATIONAL WATER RESOURCES BOARD

SALIENT FEATURES OF NATIONAL IRRIGATION SYSTEM

Name of System		Labangan RIS		
1) Water Resources Region	9	2) Source of Water Supply	Libangan River, Pulacan, Lantian, Tawagan Cr.	
3) Approved Water Rights	10.00 cms	4) Official Opening of the System	November 1959	
5) Original Construction Cost	P 1,950,000.00	6) Date of Rehabilitation	January 1979-1996	
7) Cost of Rehabilitation	P 23,878,720.00	8) Current Status	Operating System	
9) Firmed-up Service Area	3195	10) Designed Area	3000	
11) Potential Area	4000	12) Number of Landowners	916	
13) Number of Farmers Served	926	14) Average Farm Size	1.7	
15) Number of Lots	1225	16) Diversion Type	Dam and Intake	
17) Diversion Capacity	5.20 cms / 4.20 cms	18) Length of Main Canal	14.286	
19) Length of Laterals	54.5	20) Number of Turnouts	84	
21) Length of Service Roads	52.33	22) Length of Access Roads	16.245	
23) Drainage Density	18.39	24) Farmditch Density	22.12	
25) Climatic Condition (Coronas)	Type III	26) Average Annual Rainfall	1164	
27) Main Crops	Rice			
28) Towns / Province Served	<b>Towns</b>	<b>Province</b>	<b>Area (ha)</b>	
	Labangan	Zamboanga del Sur	279	
	Pagsanjan City	Zamboanga del Sur	416	
	<b>Total</b>		<b>0</b>	
29) Irrigated / Benefitted Area	<b>Average</b>	<b>1985-1995</b>		
	<b>Season</b>	<b>Wet</b>	<b>Dry</b>	<b>Third</b>
	<b>Irrigated Area (ha)</b>	2465	1863	
	<b>Benefitted Area (ha)</b>	2146	1593	
	<b>Average Yield (cav/ha)</b>	67	69	
30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance	<b>Nature of Contract</b>	<b>Number of FIA</b>	<b>Length of Canal (km) under contract</b>	<b>Area Covered (ha)</b>
31) Future Expansion	Non-commandable areas can be irrigated when these areas be converted into pump irrigation.			
32) Deterioration of the System	Heavy siltation at intake, structure and canal section. Scouring of the river bank near the location of road and canal section. Scouring of canal section specially in the sandy places.			
33) Other Information	The Labangan Dam is not functional. The latest survey data indicates that the barrel is full of silt, the elevation of the canal bottom at the outlet of the barrel is 1.5 m higher than the elevation of dam crest. The system is presently using intake as ma			



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SALIENT FEATURES OF NATIONAL IRRIGATION SYSTEM

Name of System		Salug RIS		
1) Water Resources Region	9	2) Source of Water Supply	Salug Daku, Salug Dint & Osugan River	
3) Approved Water Rights	11,141 lps	4) Official Opening of the System	April 1970	
5) Original Construction Cost	P 2,500,000.00	6) Date of Rehabilitation	1979-1997	
7) Cost of Rehabilitation	P 65,426,381.00	8) Current Status	Operating System	
9) Firmed-up Service Area	7224	10) Designed Area	7300	
11) Potential Area	7800	12) Number of Landowners	2281	
13) Number of Farmers Served	4508	14) Average Farm Size	1.45	
15) Number of Lots	930	16) Diversion Type	2-Diversion Dam, 1-Intake Ty	
17) Diversion Capacity	21.8 cms.	18) Length of Main Canal	29,786	
19) Length of Laterals	106,262	20) Number of Turnouts	305	
21) Length of Service Roads	79,214	22) Length of Access Roads	11,127	
23) Drainage Density	11.7	24) Farmlitch Density	53.6	
25) Climatic Condition (Coronas)	Type 3	26) Average Annual Rainfall	1400.4	
27) Main Crops	Rice			
28) Towns / Province Served	<b>Towns</b>	<b>Province</b>	<b>Area (ha)</b>	
	Mahuyug	Zamboanga del Sur	3028	
	Molave	Zamboanga del Sur	1663	
	Tambulig	Zamboanga del Sur	1605	
	Ramon Magsaysay	Zamboanga del Sur	123	
	Benifacio	Misamis Occidental	500	
	<b>Total</b>		<b>0</b>	
29) Irrigated / Benefited Area	Average 1985-1995			
Season	<b>Wet</b>	<b>Dry</b>	<b>Third</b>	
Irrigated Area (ha)	2883	5510		
Benefited Area (ha)	5298	5262		
Average Yield (cav/ha)	83	90		
30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance	<b>Nature of Contract</b>	<b>Number of FIA</b>	<b>Length of Canal (km) under contract</b>	<b>Area Covered (ha)</b>
	Stage 1	3	10.955	587
31) Future Expansion	Construction of Salug Valley Irrig. Dev. Project (Multi-purpose Dam) to irrigate 22,000 ha.			
32) Deterioration of the System	Siltation of dam, canals, river beds, drainage canal, service roads and other irrigation facilities.			
33) Other Information	The system is now undergoing rehab. work on its canal, canal structure, drainage canal and roads.			



NATIONAL WATER RESOURCES BOARD

SALIENT FEATURES OF NATIONAL IRRIGATION SYSTEM

Name of System		Sibuguey Valley Irrigation System			
1) Water Resources Region	9	2) Source of Water Supply		Sibuguey River & Dipili River	
3) Approved Water Rights	3,500 lps	4) Official Opening of the System		January 1, 1980	
5) Original Construction Cost	P 35,112,407.00	6) Date of Rehabilitation		1988-1997	
7) Cost of Rehabilitation	P 40,000,000.00	8) Current Status		Operational System	
9) Firmed-up Service Area	3143	10) Designed Area		3500	
11) Potential Area	3500	12) Number of Landowners		1794	
13) Number of Farmers Served	2058	14) Average Farm Size		3.23	
15) Number of Lots	971	16) Diversion Type		Diversion Dam	
17) Diversion Capacity	3.75 cms.	18) Length of Main Canal		13.46	
19) Length of Laterals	39.97	20) Number of Turnouts		58	
21) Length of Service Roads	51.6	22) Length of Access Roads		4.3	
23) Drainage Density	38.34	24) Farmditch Density		77.4	
25) Climatic Condition (Coronas)	Type 3	26) Average Annual Rainfall		978	
27) Main Crops	Rice				
28) Towns / Province Served	Towns	Province		Area (ha)	
	Bayog	Zamboanga del Sur		610	
	Baug	Zamboanga del Sur		338	
	Dipalihan	Zamboanga del Sur		134	
	Stay	Zamboanga del Sur		828	
	Total				0
29) Irrigated / Benefitted Area	Average	1985-1995			
	Season	Wet	Dry	Third	
	Irrigated Area (ha)	2052	1919		
	Benefitted Area (ha)	1718	1652		
	Average Yield (cav/ha)	73	72		
30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance	Nature of Contract	Number of FIA	Length of Canal (km) under contract	Area Covered (ha)	
	Stage I and II	2	15.75	1004	
31) Future Expansion	Lower Sibuguey - 3,500 ha. Balangoo - 1,000 ha.				
32) Deterioration of the System	Roads, irrigation canal and drainage canal				
33) Other Information	Proposed projects for expansion of the system covered by four (4) municipalities Dipalihan, Stay, Imelda and Payao province of Zamboanga del Sur.				



NATIONAL WATER RESOURCES BOARD

SALIENT FEATURES OF NATIONAL IRRIGATION SYSTEM

Name of System		Manupali RIS		
1) Water Resources Region	10	2) Source of Water Supply	Manupali River	
3) Approved Water Rights	8,000 lps	4) Official Opening of the System	July 1936	
5) Original Construction Cost	P 199,926,883.00	6) Date of Rehabilitation	1992-1995	
7) Cost of Rehabilitation	P 5,468,509.00	8) Current Status	Operating System	
9) Firmed-up Service Area	4395	10) Designed Area	5700	
11) Potential Area	5700	12) Number of Landowners	945	
13) Number of Farmers Served	682	14) Average Farm Size	1.5	
15) Number of Lots	384	16) Diversion Type	Diversion Dam	
17) Diversion Capacity	10.73 cms	18) Length of Main Canal	26.792	
19) Length of Laterals	54.478	20) Number of Turnouts	158	
21) Length of Service Roads	81.27	22) Length of Access Roads	26.58	
23) Drainage Density	47.43	24) Farmditch Density	85.17	
25) Climatic Condition (Coronas)	Type III	26) Average Annual Rainfall	2012.4	
27) Main Crops	Rice, Corn, Sugarcane, Durian, Banana, Tomato			
28) Towns / Province Served	<b>Towns</b>	<b>Province</b>	<b>Area (ha)</b>	
	Valencia	Bukidnon	2663	
	Lantapan	Bukidnon	1054	
	Malaybalay	Bukidnon	678	
	<b>Total</b>		<b>0</b>	
29) Irrigated / Benefitted Area	<b>Average</b>	1985-1995		
	<b>Season</b>	<b>Wet</b>	<b>Dry</b>	<b>Third</b>
	<b>Irrigated Area (ha)</b>	1133	1119	
	<b>Benefitted Area (ha)</b>	978	932	
	<b>Average Yield (cav/ha)</b>	82	78	
30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance	<b>Nature of Contract</b>	<b>Number of FIA</b>	<b>Length of Canal (km) under contract</b>	<b>Area Covered (ha)</b>
	Type I	6	22.569	
	Type II	3		4,395
31) Future Expansion				
32) Deterioration of the System				
33) Other Information	Declaring Manupali as "Critical Watershed" with Presidential Decree No. 127 dated June 1987.			



NATIONAL WATER RESOURCES BOARD

SALIENT FEATURES OF NATIONAL IRRIGATION SYSTEM

Name of System		Muleta RIS		
1) Water Resources Region	10	2) Source of Water Supply	Muleta and Kulaman Rivers	
3) Approved Water Rights	10,000 lps (6.85 & 3.15)	4) Official Opening of the System	January 1990	
5) Original Construction Cost	P 212,491,806.00	6) Date of Rehabilitation		
7) Cost of Rehabilitation		8) Current Status	Operating System	
9) Firmed-up Service Area	4063	10) Designed Area	5700	
11) Potential Area	6000	12) Number of Landowners	802	
13) Number of Farmers Served	1040	14) Average Farm Size	2.03	
15) Number of Lots	777	16) Diversion Type	Diversion Dam	
17) Diversion Capacity	6.85, 3.15 lps	18) Length of Main Canal	52.125	
19) Length of Laterals	38.493	20) Number of Turnouts	160	
21) Length of Service Roads	91.518	22) Length of Access Roads	3.2	
23) Drainage Density	12.91	24) Farm-ditch Density	19.37	
25) Climatic Condition (Coronas)	Moderate	26) Average Annual Rainfall	696.25	
27) Main Crops	Rice, Corn, Sugarcane			
28) Towns / Province Served	Towns	Province	Area (ha)	
	Muramag	Bukidnon	1412.93	
	Don Carlos	Bukidnon	2140	
	Total		0	
29) Irrigated / Benefitted Area	Average 1990-1995			
Season	Wet	Dry	Third	
Irrigated Area (ha)	1012.68	915		
Benefitted Area (ha)	807.27	633.02		
Average Yield (cav/ha)	81.33	78		
30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance	Nature of Contract	Number of FIA	Length of Canal (km) under contract	Area Covered (ha)
	I & II	7	31.541	1327
31) Future Expansion	Realization of the proposed reservoir dam across Muleta River to fully generate the system's service area of 4,062 ha. with an additional area of 2,400 ha.			
32) Deterioration of the System	Continuous roll down of stream flow due to denudation of watershed areas and siltation of headwork & canal system. Comprehensive reforestation project within system's watershed areas.			
33) Other Information	Assigned equipment needs total rehabilitation/provision of priority O & M equipment to improve system's facilities and better services to farmers clientiles.			



NATIONAL WATER RESOURCES BOARD

SALIENT FEATURES OF NATIONAL IRRIGATION SYSTEM

Name of System		Pulangui RIS		
1) Water Resources Region	10	2) Source of Water Supply	Pulangui River	
3) Approved Water Rights		4) Official Opening of the System	January 1984	
5) Original Construction Cost	P 199,899,210.00	6) Date of Rehabilitation	November 1990 - December 1	
7) Cost of Rehabilitation	P 255,629,183.00	8) Current Status	Operating System	
9) Firmed-up Service Area	11415	10) Designed Area	11415	
11) Potential Area	11415	12) Number of Landowners	4552	
13) Number of Farmers Served	5145	14) Average Farm Size	2.22	
15) Number of Lots	829	16) Diversion Type	Diversion Dam	
17) Diversion Capacity	SMC - 19.8 cms; NMC - 1.22	18) Length of Main Canal	64,214	
19) Length of Laterals	157,996	20) Number of Turnouts	459	
21) Length of Service Roads	225,671	22) Length of Access Roads	129	
23) Drainage Density	376.871	24) Farmditch Density	459.303	
25) Climatic Condition (Coronas)	Type III	26) Average Annual Rainfall	156	
27) Main Crops	Rice			
28) Towns / Province Served	Towns	Province	Area (ha)	
	Valencia	Bukidnon	9175	
	Makabubay	Bukidnon	1515	
	Quezon	Bukidnon	725	
	Total		0	
29) Irrigated / Benefited Area				
Average	1985-1995			
Season	Wet	Dry	Third	
Irrigated Area (ha)	7712.13	8623.54		
Benefited Area (ha)	7603.06	8147.27		
Average Yield (cav/ha)	4.09	4.01		
30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance	Nature of Contract	Number of FIA	Length of Canal (km) under contract	Area Covered (ha)
	Type I	15	161.426	11415
	Type II	7		
31) Future Expansion				
32) Deterioration of the System				
33) Other Information				



NATIONAL WATER RESOURCES BOARD

SALIENT FEATURES OF NATIONAL IRRIGATION SYSTEM

Name of System		Roxas-Kuya RIS			
1) Water Resources Region	10	2) Source of Water Supply		Kuya River	
3) Approved Water Rights		4) Official Opening of the System		CY 1957	
5) Original Construction Cost	P 1,600,000.00	6) Date of Rehabilitation		CY 1979-1981	
7) Cost of Rehabilitation	P 14,000,000.00	8) Current Status		Operating System	
9) Firmed-up Service Area	771	10) Designed Area		823	
11) Potential Area	823	12) Number of Landowners		314	
13) Number of Farmers Served	392	14) Average Farm Size		1.97	
15) Number of Lots	119	16) Diversion Type		Diversion Dam	
17) Diversion Capacity	2,000 Ips	18) Length of Main Canal		12.319	
19) Length of Laterals	6.229	20) Number of Turnouts		40	
21) Length of Service Roads	20.798	22) Length of Access Roads		15.5	
23) Drainage Density	17.8	24) Farmditch Density		32.05	
25) Climatic Condition (Coronas)	Type III	26) Average Annual Rainfall		156	
27) Main Crops	Rice				
28) Towns / Province Served	Towns	Province		Area (ha)	
	Akiremag	Bukidnon		771	
		Total		0	
29) Irrigated / Benefited Area	1985-1995				
Average Season	Wet	Dry	Third		
Irrigated Area (ha)	722.95	702.01			
Benefited Area (ha)	705.51	695.57			
Average Yield (cav/ha)	3.63	3.59			
30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance	Nature of Contract	Number of FIA	Length of Canal (km) under contract	Area Covered (ha)	
	Type I	1	6.1	222.192	
	Type II	2			
31) Future Expansion					
32) Deterioration of the System					
33) Other Information					



NATIONAL WATER RESOURCES BOARD

SALIENT FEATURES OF NATIONAL IRRIGATION SYSTEM

Name of System		Allah-I RIS		
1) Water Resources Region	11	2) Source of Water Supply		Allah, Lonon, Sepaka River
3) Approved Water Rights	no record		4) Official Opening of the System	Dam 1- June 1985; Dam 2 - J
5) Original Construction Cost	P 1.096 Billion		6) Date of Rehabilitation	1993-1996
7) Cost of Rehabilitation	P 62,669,523.00		8) Current Status	On going
9) Firmed-up Service Area	11505		10) Designed Area	18812
11) Potential Area	21000		12) Number of Landowners	2500
13) Number of Farmers Served	7168		14) Average Farm Size	1
15) Number of Lots	8279		16) Diversion Type	Barrage
17) Diversion Capacity	Dam #1- 17.88; Dam #2 - 30.		18) Length of Main Canal	41.89
19) Length of Laterals	150.02		20) Number of Turnouts	281
21) Length of Service Roads	192.41		22) Length of Access Roads	192.41
23) Drainage Density			24) Farmditch Density	
25) Climatic Condition (Coronas)	Wet (May-Oct); Dry (Nov.-Ap		26) Average Annual Rainfall	6
27) Main Crops	Rice, Corn			
28) Towns / Province Served	<b>Towns</b>		<b>Province</b>	
			<b>Area (ha)</b>	
	Surokrah		South Cotabato	
	Banga		South Cotabato	
	Noroki		South Cotabato	
	Sto. Nino		South Cotabato	
	Isulan		South Cotabato	
		<b>Total</b>		
		<b>0</b>		
29) Irrigated / Benefitted Area				
Average	1985-1995			
Season	Wet		Dry	
Irrigated Area (ha)	9392.02		7024.51	
Benefitted Area (ha)	7684.73		5522.92	
Average Yield (taw/ha)	84.03		82.16	
30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance	Nature of Contract		Number of FIA	
	Type I		46	
	Type II		1	
		Length of Canal (km) under contract		
		209.01		
		3.94		
		Area Covered (ha)		
		11505		
		130		
31) Future Expansion	Matapol Dam - 2,500 ha - 42.05% completed w/ funding if 2.83M (CDF - 1.5M and GAA - 1.33M) funding req't. to complete works is P3.9M; Silt Ejector - 80 ha funding req't. is P150,000; Kalawag Dam - 80 ha 50% complete w/ initial funding of P200,000 from CDF			
32) Deterioration of the System	Canal lining, watershed, siltation, drainage system and service roads.			
33) Other Information				





NATIONAL WATER RESOURCES BOARD

SALIENT FEATURES OF NATIONAL IRRIGATION SYSTEM

Name of System		Banga RIS			
1) Water Resources Region	II	2) Source of Water Supply		Banga River	
3) Approved Water Rights		4) Official Opening of the System		October 1972	
5) Original Construction Cost	P 11,000,000.00	6) Date of Rehabilitation		May 1991	
7) Cost of Rehabilitation	P 216,261,895.00	8) Current Status		Operating System	
9) Firmed-up Service Area	2337.51	10) Designed Area		3360	
11) Potential Area	3360	12) Number of Landowners		463	
13) Number of Farmers Served	1783	14) Average Farm Size		1.463	
15) Number of Lots	505	16) Diversion Type		Diversion type/ogee	
17) Diversion Capacity	5.2	18) Length of Main Canal		16.655	
19) Length of Laterals	51.735	20) Number of Turnouts		131	
21) Length of Service Roads	39.153	22) Length of Access Roads			
23) Drainage Density		24) Farmditch Density		96	
25) Climatic Condition (Coronas)	Temperate	26) Average Annual Rainfall		10.34	
27) Main Crops	Rice				
28) Towns / Province Served	<b>Towns</b>	<b>Province</b>		<b>Area (ha)</b>	
	Banga	South Cotabato		374.65	
	Norala	South Cotabato		1084.15	
	Sto. Nino	South Cotabato		878.71	
	<b>Total</b>		<b>0</b>		
29) Irrigated / Benefitted Area					
Average	1985-1995				
Season	<b>Wet</b>	<b>Dry</b>	<b>Third</b>		
Irrigated Area (ha)	1748.06	1405.48			
Benefitted Area (ha)	1608.3	1267.66			
Average Yield (cav/ha)	82.96	79.49			
30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance	<b>Nature of Contract</b>	<b>Number of FIA</b>	<b>Length of Canal (km) under contract</b>	<b>Area Covered (ha)</b>	
		2	8.905	578.38	
31) Future Expansion	Installation of deep-well water pump on unirrigated area but w/in the service area of the system.				
32) Deterioration of the System	1. Construction of concrete canal lining on unlined canals susceptible sloughing. 2. Repair of damaged structure.				
33) Other Information					



NATIONAL WATER RESOURCES BOARD

SALIENT FEATURES OF NATIONAL IRRIGATION SYSTEM

Name of System		Batutu RIS		
1) Water Resources Region	II	2) Source of Water Supply	Batutu River	
3) Approved Water Rights	During construction period	4) Official Opening of the System	December 1979	
5) Original Construction Cost	P 24,694,794.44 & S 53,312.9	6) Date of Rehabilitation	January 1988	
7) Cost of Rehabilitation	P 5,485,744.63 (IOSP) CY '88	8) Current Status	Functional & viable system	
9) Firmed-up Service Area	3269	10) Designed Area		
11) Potential Area	4450	12) Number of Landowners	797	
13) Number of Farmers Served	1606	14) Average Farm Size	1.42	
15) Number of Lots	2032	16) Diversion Type	Run-Off the River	
17) Diversion Capacity	4,100.00 lps	18) Length of Main Canal	27.34	
19) Length of Laterals	43.38	20) Number of Turnouts	147	
21) Length of Service Roads	78	22) Length of Access Roads	10	
23) Drainage Density		24) Farmditch Density		
25) Climatic Condition (Coronas)	Fair weather	26) Average Annual Rainfall	307.5	
27) Main Crops	Rice			
28) Towns / Province Served	<b>Towns</b>	<b>Province</b>	<b>Area (ha)</b>	
	Compostela	Davao del Norte	2169	
	New Bataan	Davao del Norte	1100	
	<b>Total</b>		<b>0</b>	
29) Irrigated / Benefitted Area	1985-1995			
Average				
Season	<b>Wet</b>	<b>Dry</b>	<b>Third</b>	
Irrigated Area (ha)	2124.48	2140.7		
Benefitted Area (ha)	2124.48	2140.7		
Average Yield (cav/ha)	80.51	78.98		
30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance	<b>Nature of Contract</b>	<b>Number of FIA</b>	<b>Length of Canal (km) under contract</b>	<b>Area Covered (ha)</b>
		14	45.631	3269
31) Future Expansion	30.1 Inapawan Area			
32) Deterioration of the System				
33) Other Information				



NATIONAL WATER RESOURCES BOARD

SALIENT FEATURES OF NATIONAL IRRIGATION SYSTEM

Name of System		Buayan RIS		
1) Water Resources Region	11	2) Source of Water Supply	Buayan & Timagacan Rivers	
3) Approved Water Rights	Water Permit No. 7513	4) Official Opening of the System	July 1978	
5) Original Construction Cost	P 1,514,646.81	6) Date of Rehabilitation	December 1985	
7) Cost of Rehabilitation	P 10,610,000.00	8) Current Status	Operational	
9) Firmed-up Service Area	807.01	10) Designed Area	1188.33	
11) Potential Area	1939.36	12) Number of Landowners	345	
13) Number of Farmers Served	462	14) Average Farm Size	0.84	
15) Number of Lots	345	16) Diversion Type	Intake/Ogee type	
17) Diversion Capacity	3 cms	18) Length of Main Canal	12.177	
19) Length of Laterals	19.452	20) Number of Turnouts	68	
21) Length of Service Roads	19.745	22) Length of Access Roads	6	
23) Drainage Density	6.8	24) Farmditch Density	65.5	
25) Climatic Condition (Coronas)	Type IV	26) Average Annual Rainfall	1068.72	
27) Main Crops	Rice, Corn, Vegetables			
28) Towns / Province Served	<b>Towns</b>	<b>Province</b>	<b>Area (ha)</b>	
	Jagao	South Cotabato	135.75	
	Bahuan	South Cotabato	352.6	
	Bula	South Cotabato	6	
	Buayan	South Cotabato	52.31	
	Ligaya	South Cotabato	161.7	
	Kakungawan	South Cotabato	72.74	
	Timagacan	South Cotabato	25.91	
	<b>Total</b>		<b>0</b>	
29) Irrigated / Benefitted Area	Average 1985-1995			
Season	Wet	Dry	Third	
Irrigated Area (ha)	634.47	533.71		
Benefitted Area (ha)	560.28	440.57		
Average Yield (cav/ha)	84	75		
30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance	Nature of Contract	Number of FIA	Length of Canal (km) under contract	Area Covered (ha)
		5	32.05	807.01
31) Future Expansion	The proposed Datal-as dam will generate an additional irrigated area of about 200 ha for Brgy. Batomelong and about 300 ha for the present Buayan RIS.			
32) Deterioration of the System	The Malandagdam at Brgy. Kiblat, Malungon Sarangani Prov. Needs concreting of Main Canal due to steep slope which cause severe erosion.			
33) Other Information	Buayan RIS Dam gets most of its irrigation waters from Malandag Dam. Malandag Dam's irrigation water is being shared by Buayan RIS and the Malandag CIS under the So. Cotabato PIO.			



NATIONAL WATER RESOURCES BOARD

SALIENT FEATURES OF NATIONAL IRRIGATION SYSTEM

Name of System		Dumaguil RIS		
1) Water Resources Region	11	2) Source of Water Supply	Dumaguil River	
3) Approved Water Rights		4) Official Opening of the System	Partial	
5) Original Construction Cost	P 154,268,000.00 (Partial)	6) Date of Rehabilitation		
7) Cost of Rehabilitation		8) Current Status		
9) Firmed-up Service Area	1000	10) Designed Area	2300	
11) Potential Area	2300	12) Number of Landowners	288	
13) Number of Farmers Served	743	14) Average Farm Size	2.02	
15) Number of Lots	425	16) Diversion Type	Check Type	
17) Diversion Capacity	3,500 lps	18) Length of Main Canal	2925	
19) Length of Laterals	20.881	20) Number of Turnouts	65	
21) Length of Service Roads	43.06	22) Length of Access Roads		
23) Drainage Density	67.23	24) Farnditch Density	50.57	
25) Climatic Condition (Coronas)		26) Average Annual Rainfall	4.35	
27) Main Crops	Rice			
28) Towns / Province Served	<b>Towns</b>	<b>Province</b>	<b>Area (ha)</b>	
	Tocwong	Sultan Kudrat	2155	
	Nondala	South Cotabato	112	
	<b>Total</b>		<b>0</b>	
29) Irrigated / Benefitted Area				
Average	1993-1996			
Season	Wet	Dry	Third	
Irrigated Area (ha)	1265.05	841.33		
Benefitted Area (ha)	1221.53	822.36		
Average Yield (cuv/ha)	95.75	56.5		
30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance	<b>Nature of Contract</b>	<b>Number of FIA</b>	<b>Length of Canal (km) under contract</b>	<b>Area Covered (ha)</b>
	Type 1 & 2	2	18.88	1375
	Type 2	1	2.125	125
31) Future Expansion				
32) Deterioration of the System				
33) Other Information				



NATIONAL WATER RESOURCES BOARD

SALIENT FEATURES OF NATIONAL IRRIGATION SYSTEM

Name of System		Kipaliku RIS		
1) Water Resources Region	II	2) Source of Water Supply	Kipaliku River	
3) Approved Water Rights		4) Official Opening of the System	1993	
5) Original Construction Cost	P 408,069,887.95	6) Date of Rehabilitation	1995	
7) Cost of Rehabilitation	P 1,664,120.00	8) Current Status		
9) Firmed-up Service Area	3820	10) Designed Area	2600	
11) Potential Area	4400	12) Number of Landowners	936	
13) Number of Farmers Served	1260	14) Average Farm Size	1	
15) Number of Lots	622	16) Diversion Type	Ogee	
17) Diversion Capacity	5 cms	18) Length of Main Canal	13.6795	
19) Length of Laterals	20.48665	20) Number of Turnouts	49	
21) Length of Service Roads	26.58651	22) Length of Access Roads	11.9	
23) Drainage Density		24) Farmditch Density		
25) Climatic Condition (Coronas)	Fair, cloudy	26) Average Annual Rainfall	1445.3	
27) Main Crops	Rice, Banana			
28) Towns / Province Served	Towns	Province	Area (ha)	
	Sto. Tomas	Davao del Norte	4379.69	
	Total		0	
29) Irrigated / Benefitted Area	1985-1995			
Average Season	Wet	Dry	Third	
Irrigated Area (ha)	1299.11	939.4		
Benefitted Area (ha)	1102.11	1624.73		
Average Yield (cav/ha)	79.66	80.32		
30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance	Nature of Contract	Number of FIA	Length of Canal (km) under contract	Area Covered (ha)
		3	32.16383	2400
31) Future Expansion	Expansion of rice and banana area			
32) Deterioration of the System	Drainage system, roads, irrigation canal and structures.			
33) Other Information				



NATIONAL WATER RESOURCES BOARD

SALIENT FEATURES OF NATIONAL IRRIGATION SYSTEM

Name of System		Lambayong RIS		
1) Water Resources Region	11	2) Source of Water Supply	Kapingkong River	
3) Approved Water Rights		4) Official Opening of the System	November 30, 1990	
5) Original Construction Cost	P 510,800,000.00	6) Date of Rehabilitation		
7) Cost of Rehabilitation		8) Current Status		
9) Firmed-up Service Area	11355	10) Designed Area	12000	
11) Potential Area	13280	12) Number of Landowners	5512	
13) Number of Farmers Served	5758	14) Average Farm Size	1.97	
15) Number of Lots	7344	16) Diversion Type	Barrage type	
17) Diversion Capacity	16,000 lps	18) Length of Main Canal	12.09	
19) Length of Laterals	134.026	20) Number of Turnouts	346	
21) Length of Service Roads	131.58	22) Length of Access Roads		
23) Drainage Density	129.97	24) Farmditch Density	246.84	
25) Climatic Condition (Coronas)		26) Average Annual Rainfall	4.35	
27) Main Crops	Rice			
28) Towns / Province Served	<b>Towns</b>	<b>Province</b>	<b>Area (ha)</b>	
	Lambayong	Sultan Kudarat	9 <sup>00</sup>	
	Tacurong	Sultan Kudarat	21 <sup>00</sup>	
	Pres. Quirino	Sultan Kudarat	130	
	<b>Total</b>		<b>0</b>	
29) Irrigated / Benefitted Area	Average 1985-1995			
Season	<b>Wet</b>	<b>Dry</b>	<b>Third</b>	
Irrigated Area (ha)	3709.31	3328.35		
Benefitted Area (ha)	8479.45	2413.77		
Average Yield (taw/ha)	80.77	72.11		
30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance	<b>Nature of Contract</b>	<b>Number of FIA</b>	<b>Length of Canal (km) under contract</b>	<b>Area Covered (ha)</b>
	Type 1	4	11.74	852
	Type 1 & 2	24	108.25	9308
31) Future Expansion				
32) Deterioration of the System				
33) Other Information				



NATIONAL WATER RESOURCES BOARD

SALIENT FEATURES OF NATIONAL IRRIGATION SYSTEM

Name of System	Lasang RIS			
1) Water Resources Region	II	2) Source of Water Supply	Lasang River	
3) Approved Water Rights		4) Official Opening of the System	November 22, 1982	
5) Original Construction Cost	P 126,076,518.00	6) Date of Rehabilitation	1993-1995	
7) Cost of Rehabilitation	P 33,852,437.46	8) Current Status		
9) Firmed-up Service Area	4450	10) Designed Area	4560	
11) Potential Area	5237	12) Number of Landowners	1200	
13) Number of Farmers Served	2207	14) Average Farm Size	1	
15) Number of Lots	1200	16) Diversion Type	Ogee	
17) Diversion Capacity	8.02 cms	18) Length of Main Canal	20.402	
19) Length of Laterals	53.59	20) Number of Turnouts	125	
21) Length of Service Roads	72.408	22) Length of Access Roads	5.55	
23) Drainage Density		24) Farmditch Density		
25) Climatic Condition (Coronas)	Fair, cloudy	26) Average Annual Rainfall	1506.6	
27) Main Crops	Rice, Banana			
28) Towns / Province Served	Towns	Province	Area (ha)	
	Caruen	Davao del Norte	2777.36	
	Panabo	Davao del Norte	1810.32	
	Total		0	
29) Irrigated / Benefitted Area	Average	1985-1995		
	Season	Wet	Dry	Third
	Irrigated Area (ha)	4085.58	3914.71	
	Benefitted Area (ha)	3287.09	3157.3	
	Average Yield (cav/ha)	72.35	77.45	
30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance	Nature of Contract	Number of FIA	Length of Canal (km) under contract	Area Covered (ha)
		1	7410.097	4450
31) Future Expansion	100 has of rice @ Manay, Panabo			
32) Deterioration of the System	Drainage system, roads, irrigation canal and structures.			
33) Other Information				



NATIONAL WATER RESOURCES BOARD

SALIENT FEATURES OF NATIONAL IRRIGATION SYSTEM

Name of System		Libuganon Left RIS		
1) Water Resources Region	11	2) Source of Water Supply	Libuganon River	
3) Approved Water Rights		4) Official Opening of the System	January 1993	
5) Original Construction Cost	No available data (Dvo. III P	6) Date of Rehabilitation		
7) Cost of Rehabilitation		8) Current Status		
9) Firmed-up Service Area	618	10) Designed Area	1090	
11) Potential Area	1090	12) Number of Landowners	313	
13) Number of Farmers Served	313	14) Average Farm Size	1.97	
15) Number of Lots		16) Diversion Type	Ogee/Run-Off the River	
17) Diversion Capacity		18) Length of Main Canal	11549	
19) Length of Laterals	7.626	20) Number of Turnouts	41	
21) Length of Service Roads	19.175	22) Length of Access Roads	3.6	
23) Drainage Density	5.42	24) Farmditch Density		
25) Climatic Condition (Coronas)		26) Average Annual Rainfall	1.428	
27) Main Crops	Rice			
28) Towns / Province Served	<b>Towns</b>	<b>Province</b>	<b>Area (ha)</b>	
	Avuncion	Davao	430.85	
	Kapalong	Davao	15.65	
	<b>Total</b>		<b>0</b>	
29) Irrigated / Benefitted Area	Average 1985-1995			
Season	<b>Wet</b>	<b>Dry</b>	<b>Thrd</b>	
Irrigated Area (ha)	451.67	457		
Benefitted Area (ha)	349.33	332.67		
Average Yield (cav/ha)	74	69		
30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance	<b>Nature of Contract</b>	<b>Number of FIA</b>	<b>Length of Canal (km) under contract</b>	<b>Area Covered (ha)</b>
		2		
31) Future Expansion	Construction of Proposed Lateral C.			
32) Deterioration of the System	On going implementation of IOSP-II			
33) Other Information				