

Water Resources, Irrigation Water Use and Flood and Drain/Age Information																															
No	Region	RC/NISO	NIS	1. Water Resources for Irrigation											2. Irrigation Area and Cropping Intensity								3. Damaged Area			4. Average Benefited Area and Crop Yield				5. Evaluation of Irrigation and Drain/Age Conditions	
				Annual Rainfall R (mm)	Average Qar(d) (m ³ /sec)	Runoff Qar(w) (m ³ /sec)	Discharge Qar (m ³ /sec)	Annual Diverted Intake Dis.			(8) - (11) (m ³ /sec)	Firmed-Up Service Area FUSA (ha)	Irrigated Area		Main Crop		Cropping Intensity		Average Irrigation Water Requirement Qiw (m ³ /sec/ha)	(11)-(20) (m ³ /sec)	Irrigation Damage by Water Shortage		Drain/Age Damages by Poor Drain/Age e and (ha)	Benefited Area		Crop Yield		Present Conditions and Encountered Problems	Countermeasures to solve the Problems		
								Dry Season Qad(d) (m ³ /sec)	Wet Season Qad(w) (m ³ /sec)	Annual Qad (m ³ /sec)			Dry Season Ad (ha)	Wet Season Aw (ha)	Dry Season Dw (ha)	Wet Season Ww (ha)	Dry Season Cid (%)	Wet Season Ciw (%)			Wet S. (ha)	Dry S. (ha)		Dry Season Bad (ha)	Wet Season Baw (ha)	Dry Season Cyd (ton/ha)	Wet Season Cw (ton/ha)				
								(9)	(10)	(11)			(14)	(15)	(16)	(17)	(18)	(19)			(23)	(24)		(26)	(27)	(28)	(29)				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	
15			Labugaon Area	1,321.9	5.65	8.73	7.19	6.67			2.06	1,470	763	1,182	Paddy	Paddy	51.9	80.4	N/A	#VALUE!	#VALUE!				763	1,129	N/A	N/A	- Irrigation water availability at the farm level was so insufficient due to the excessive siltation at diversion intakes and main caN/Al brought or caused by the strong Typhoon Igme - River beds become too shallow due to heavy siltation as an affect of rorsion/land slides in the catchment area during strong typhoon so that adjacent agricultural area are easily inundated.	- Available period of NIA detailed at the dam site for periodic desiltation of the diversion dam - IAs are mobilized to help in the desiltation even at the intakes and along the main - caN/Al - Construction of silt dams upstream of the diversion dam - Dredging of heavily silted rivers and - construction of protection dikes - A long those program just be undertaken that is: implementing a watershed maN/Agement project	
16			Papa Area	1,321.9	1.78	3.81	2.79	1.34			2.47	2,337	137	420	Other Paddy	Paddy	5.9	18.0	N/A	#VALUE!	#VALUE!				1,068	1,800	N/A	N/A	- Available water supply not fully utilized due to frequent/serious siltation at diversion dam intake and due to serious leaks at sluice gates as an effect of the worn-out rubber seals and heavily scoured sluice way sill - Flood water surface reached above critical design level thus causing heavy damages on the dam facilities and accessories and on the flood - embankment protections including irrigation caN/Als on the left bank - Excessive build-up of boulders, gravel and silt in the river-bed causing abstraction of flood flow in the mainstream thus causing inundation and	- Desilting equipment (backhoe) is used but only when available - IA farmer-members are mobilized to help in the desilting (manual) of the sluice way and in putting sandbags on the scoured sluiceway sill to minimize leaks through sluice way gates - River caN/Alization and construction of river training structures/facilities like boulders in wire mesh and bamboo finches constructed by beneficiary farmers - Dredging and construction of Sabo dam and flood embankment as is presently done by DPWH in the area - Watershed reforestation and	
17		Ilocos Sur	Sta. Maria-Burgos	1,568.6	0.24	1.08	0.66	2.81			-1.73	914	40	547	Upland	Paddy	4.4	59.8	0.31	1.06	2.50	874	367		N/A	N/A	N/A	N/A	- Low water supply due to minimal rain - Upstream portion of existing brushdam hampered the flow of water to the system - Silted caN/Als and structures	- Abundant only during wet season - Find alterN/Ative solution to increase source of water supply - Implementation of construction activities regularly	
18			Sta. Lucia-Candon	1,584.5	0.48	1.07	0.77	3.72			-2.65	1,555	259	1,433	Paddy	Paddy	16.7	92.2	0.27	0.32	3.45	1,296	122		N/A	N/A	N/A	N/A	- Low water level due to uncontinuous rain during peak rainy month - Construction of brushdam & channeling of dam after heavy downpower & lack of equipment	- Abundant only during wet season - Maximum use of equipment during the occurrence of water crisis - Speedy implementation of irrigation projects on time	
19			Tagudin	2,187.5	2.14	4.41	3.28	12.05			-7.64	1,313	1,083	1,227	Paddy	Paddy	82.5	93.5	0.3	0.25	11.76	230	86		N/A	N/A	N/A	N/A	- Lack of water supply due to intermittent rains - Construction of brushdam after heavy downpower at upstream portion of intake - Some farmers do not follow the scheduled cropping calendar and water delivery and distribution	- Abundant water supply during wet season - Construction of diversion dam to minimize construction of brushdam and implement construction of activities/project - IA and NIS to work actively the scheduled water delivery and distribution of cropping calendar	
20		Amburayan	Amburayan	1,253.1	2.12	2.47	2.30	0.16			2.31	3,289	2,153	2,616	Paddy	Paddy	65.5	79.5	1.05	0.44	-0.89	647	634	600	1,959	2,728	N/A	N/A	- Lack of fund allocation to repair the irrigation facilities that cause problems in water delivery - Due to no rehabilitation works for drain/Age facilities, some irrigated areas are submerged during wet season	- Utilization of irrigation associations to do the repair/mainteN/Ance work to improve irrigation service - Preparation of Program of Work for the desilting of drain/Age caN/Als - A separate cropping calendar for the submerged areas is implemented avoiding the expected flood months	
21		Ambayon-Dipalo	Ambayon	1,537.5	1.76	3.67	2.71	0.77			2.90	2,043	932	1,700	Paddy	Paddy	45.6	83.2	0.60	0.46	0.17										
22			Ambayon-Extension		N/A	N/A	N/A				#VALUE!						#####	#####		#DIV/0!	0.00			50		716	1,879	4.33	4.34	- There is a need of properly organizing water maN/Agement distribution schemes of irrigation water, in order to avoid excessive application thereby decreasing run-off and seepages - Lack of water	- There is a need of properly organizing water maN/Agement activates for efficient distribution schemes of irrigation water in order to avoid excessive application thereby decreasing run-off
23			Dipalo	1,824.8	0.89	1.4	1.14	0.66			0.74	2,002	197	1,500	Paddy	Paddy	9.8	74.9	0.60	0.71	0.06	70			203	1,045	N/A	N/A	- Lack of farm ditched - No control of water at MTO headgates - CaN/Al always silted during wet season due to drain/Age run-off entering in the caN/Al	- Provide funds for the construction of farm ditches and fabrication of steel gates - Improvement of drain/Age caN/Als and provide catch basin for silts accumulated	
24		Masalip	Masalip	3,076.5	N/A	N/A	N/A	0.76			#VALUE!	1,548	1,183	1,200	Paddy	Paddy	76.4	77.5	0.38	0.32	0.38	120	120	896	866	4	3.92	- Lack of farm level facilities like MFD is a hinderance to the smooth distribution of irrigation water - Lack of rehabilitation fund contributed to the slow implementation of O&M activities	- IA strengthening - Closure of illegal turn-outs - Physical improvement		
25		Lower Agno	Lower Agno	1,415.7	6.83	5.59	6.21	3.58			2.01	4,134	2,928	3,660	Paddy	Paddy	70.8	88.5	2.77	0.84	0.81				2,309	2,901	4.38	3.27	- Lack of farm level facilities & control gates, effective water maN/Agement could not be implemented - Presence of illegal turn-outs - Sandy loam paddy wherein percolation is excessive		
26		San Fabian-Dumuloc	San Fabian	1,929.7	N/A	N/A	N/A	1.47			#VALUE!	2,026	1,008	1,554	Paddy Upland	Paddy	49.8	76.7	2.64	2.06	-1.17	517	914		983	1,439	3.63	3.84			

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				Annual Rainfall R (mm)	Average Runoff		Discharge Qar (m ³ /sec)	Annual Diverted Intake Dis.			(8) - (11) Qad (m ³ /sec)	Firmed-Up Service Area FUSA (ha)	Irrigated Area		Main Crop		Cropping Intensity		Average Irrigation Water Requirement Qiw (m ³ /sec)	(11)-(20) Qad (m ³ /sec)	Irrigation Damage by Water Shortage		Drain/Age Damages by Poor Drain/Age and (ha)	Benefited Area		Crop Yield		Present Conditions and Encountered Problems	Countermeasures to solve the Problems	
					Dry Season Qar(d)	Wet Season Qar(w)		Annual Qar	Dry Season Qad (d)	Wet Season Qad (w)			Annual Qad	Dry Season Ad	Wet Season Aw	Dry Season Season	Wet Season Season	Dry Season Cid			Wet Season Ciw	Wet S		Dry S	Dry Season Bad	Wet Season Baw	Dry Season Cyd			Wet Season Cw
					(m ³ /sec)	(m ³ /sec)		(m ³ /sec)	(m ³ /sec)	(m ³ /sec)			(m ³ /sec)	(ha)	(ha)	(ha)	(%)	(%)			(m ³ /sec)	(m ³ /sec)		(ha)	(ha)	(ha)	(ha)			(ton/ha)
(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)				
27	Reg. I		Dumoloc	2,109.1	N/A	N/A	N/A	0.61	#VALUE!	1,232	510	897	Paddy	Paddy	41.4	72.8	1.13	1.61	-0.52	657	358		517	854	3.63	3.76	- Some irrigation facilities on main and lateral caN/AIs are semi-function/AI - Presence of illegal turn-outs - No control gates along headgates and turn-outs - Farmditches are no longer dependable - IN/Active and poor IA organization	- IA strengthening and physical improvement		
28		Agno-Sinolacan	Agno	1,782.3	N/A	N/A	N/A	N/A	#VALUE!	9,467	4,460	4,615	Paddy	Paddy	47.1	48.7	10.15	2.24	#VALUE!				N/A	N/A	N/A	N/A	- Fluctuating water release of Sn Roque Multi-purpose dam - Washed-out ogee dam - Silted caN/AIs	- Construction of NIA regulation dam - Rehabilitation of irrigation structures - Desilting of irrigation caN/AIs		
29			Sinolacan	N/A	N/A	N/A	N/A	N/A	#VALUE!	2,570	1,500		Paddy		58.4	0.0	N/A	#VALUE!	#VALUE!				N/A	N/A	N/A	N/A	- Most of farmditches are not existed which causes insufficient water	- Strengthen IA for the revival of farmditches		
30	Reg. 2		Vistacion																											
31		Baua	Baua	2,044.6	3.85	3.23	3.54	3.13	0.10	1,867	875	1,201	Paddy	Paddy	46.9	64.3	1.60	1.54	1.53	44	22	114	759	338	3.88	2.91	- Strong seepage of lateral caN/AI and main farm ditches	- Concrete caN/AI lining		
32		Banurbur	Banurbur Creek	3,738.0	14.77	21.47	18.21	1.69	19.78	1,087	1,479	1,180	Pddy	Paddy	136.1	108.6	0.43	0.32				1,000	476	4.34	3.56					
33		Magapit Pump	Magapit PIS	1,724.0	N/A	N/A	N/A	3.28	#VALUE!	10,046	8,949	4,677	Paddy	Paddy	89.1	46.6	6.27	0.92	-2.99				5,078	3,239	4.14	3.65	- Difficulty in water distribution at on-farm level due to lack of on-farm ditches - There are pump users (2,500ha) from drain/Ages due to lack of on-farm ditches	- Farmers are assisted with excavator to construct large farm ditches where manual work is not feasible. - Pump users from drain/Ages are billed to pay ISF with reduced rate of five cavans per hectare.		
34		Apayao-Abulog-PamploN/A	Apayao-Abulug	2,420.6	0.36	0.4	0.35	3.24	-2.89	8,175	5,612	5,245	Paddy	Paddy	68.6	64.2	1.99	0.37	1.25				1,716	1,557	3.54	3.44				
35			PamploN/A															#DIV/0!	0.00											
36			Dummun	1,025.1	N/A	N/A	N/A	1.29	#VALUE!	1,502	1,232	691	Paddy	Paddy	82	46.0	N/A	#VALUE!	#VALUE!				1,071	861	4.08	3.65	- Effective water distribution could not be implemented, due to lack of farm ditched - Riverbed elevation is already down below the intake invert elevation, thus reduction of the required volume of irrigation water - IN/Adequate and deteriorated existing drain/Age caN/AIs	- Promote and strengthen IA for provision of farm ditched at in-farm level - An ogee type dam will be constructed to check the lowering riverbed and increase intake discharge - Drain/Age caN/AIs must be improved and check structures will be constricted for the re-use of water		
37		Zinundungan	Zinundungan	1,885.4	N/A	N/A	N/A	N/A	#VALUE!	2,045	1,850	####	Paddy	Paddy	90.5	79.7	N/A	#VALUE!	#VALUE!				2,307	1,321	4.09	4.07				
38		Baggao	Baggao (Pared)	N/A	2.05	1.93	1.99	N/A	#VALUE!	750	710	710	Paddy	Paddy	94.7	94.7	N/A	#VALUE!	#VALUE!								- Run-off always occur during the month of July to October from outside area	- Cleaning of drain/Age caN/AI in the area		
			Bagao (ParaN/Au)	N/A			1.73	N/A	#VALUE!	1,717	1,140	716	Paddy	Paddy	66.4	41.7	2.37	2.55	#VALUE!			1,514	1,268	4.43	N/A					
39		Iguig-Alcala-Amulung	Iguig-Alcala-Amulung P	1,643.6	N/A	N/A	N/A	N/A	#VALUE!	2,306	1,505	1,525	Paddy	Paddy	65.3	66.1	N/A	#VALUE!	#VALUE!				N/A	806	N/A	N/A	- Limited distribution caN/AIs, and destroyed farm ditches	- Reconstruction of major farm ditches destroyed by farmers		
40			Lower Chico	1,519.8	N/A	N/A	N/A	1.70	#VALUE!	1,404	1,337	1,278	Paddy	Paddy	95.2	91.0	1.58	1.21	0.12	62			614	682	4.00	3.66		- Damaged facilities and need caN/AI improvement		
41		SolaN/A-PIN/Acanuan	SolaN/A PIS	2,006.8	N/A	N/A	N/A	N/A	#VALUE!	2,777	1,712	1,735	Paddy	Paddy	61.6	62.5	0.59	0.34	#VALUE!			700					- Due to heavy siltation of drain/Age caN/AI and facilities, damages are taken place at downstream areas.	- Drain/Age caN/AI excavation and provision of drain/Age crossing and creek structure along Drain/Age caN/AI		
42			Pin/AcaN/Auan	2,006.8	N/A	N/A	N/A	N/A	#VALUE!	880	577	577	Paddy	Paddy	65.6	65.6	0.59	1.02	#VALUE!				503	523	4.12	3.93	- Occurrence of water shortage during dry season, especially at downstream along Tuguegarao area	- Repair and rehabilitation of system		
43		San Pablo Cabagan	San Pablo Cabagan	2,138.9	N/A	N/A	N/A	5.25	#VALUE!	1,365	905	840	Paddy	Paddy	66.3	61.5		0.00	5.25				512	632	N/A	4.13				
44		Tumauini	Tumauini	365.1	22.82	38.05	30.43	1.50	36.55	3,020	2,405	2,110	Paddy	Paddy	79.6	69.9	1.47	0.65	0.03	750	560	775	1,720	1,990	N/A	N/A	- RotatioN/AI irrigation was implemented - Silted main caN/AI affected water delivery	- Desilting of main caN/AI and lateral "C" of the primary tributaries of the system		
45		Mallig	Mallig	1,725.7	22.82	38.05	16.38	1.83	36.22	2,419	1,910	1,813	Paddy	Paddy	74	74.9	2.07	1.11	-0.24	900	1,350		1,440	1,172	3.52	3.36				
46		N.V Bagabag	Bagabag	1,722.2	N/A	N/A	N/A	1.10	#VALUE!	2,010	1,339	1,350	1,339	1,350	66.6	67.2	0.55	0.41	0.55			80	1,243	1,230	N/A	N/A	- Water distribution and monitoring not effectively implemented/observed. - Lack of steel gates for lateral and turnout and check structures for main caN/AI - No type of contract between NIA, and IA - Excess water coming from Colocol CIS enter into main caN/AI - Overtopping of water occurs easily due to heavy salutation in upper portion of main caN/AI	- Installation/repair of lateral and turnout and steel gates and construction of additional/AI check structures along main caN/AI - NIA and IA should work together to address and implement an effective water distribution. - Construction of structures at merging point of Bagabag main caN/AI and Colocol drain/Age caN/AI to divert excess water - Desilting of the upstream portion of main caN/AI		
47	MRIIS	MRIIS District I	MRIIS Distric I	1,719.7	N/A	N/A	N/A	N/A	#VALUE!	20,904	18,763	17,787	Paddy	Paddy	89.8	85.1	30.63	1.68	#VALUE!	650	2,491	1,800	16,285	15,387	3.98	4.03	- Some 1,800 ha planted with rice was flooded due to heavy rainfall and heavy	- Desilting of drain/Age caN/AIs and creeks		
48		MRIIS District II	MRIIS Distric II	1,416.0	N/A	N/A	N/A	N/A	#VALUE!	22,676	21,808	21,478	Paddy Upland	Paddy	96.2	94.7	52.93	2.45	#VALUE!			29	21,008	19,626	4.60	4.33	- Damaged facilities	- Rehabilitation of damaged facilities into operable condition		

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					Dry Season Qar(d)	Wet Season Qar(w)	Annual Qar	Dry Season Qad (d)	Wet Season Qad (w)	Annual Qad	Dry Season Ad			Wet Season Aw	Dry Season Season	Wet Season Season	Dry Season Cid	Wet Season Ciw	Qiw (m3/sec)	lit/sec/ha	Wet S (ha)		Dry S (ha)	Bad (ha)		Wet Season Baw (ha)	Dry Season Cyd (ton/ha)	Wet Season Cw (ton/ha)			
(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)					
75	Reg. IV		Bankud																												
76			Butas Marcelo																												
77			PluceN/A-Bayan																												
78			Butas-Lawang Bato	5,087.9			N/A	N/A		#VALUE!	8,490	3,089	6,296	Paddy	Paddy	36.4	74.2	N/A	#VALUE!	#VALUE!		100		3,364	6,897	3.79	3.26				
79			N/Avarro							0.00																					
80			Matanda							0.00																					
81			Balayungan							0.00																					
82			Tres Cruces							0.00																					
83			San Agustin-Pasong Buaya							0.00																					
84			Culong-Culong							0.00																					
85			Sahing							0.00																					
86		Agos	Agos	3,607.4	153.6	80.88	117.24	1.10		79.78	1,232	1,232	1,232	Paddy	Paddy	100.0	100.0	1.16	0.94	-0.06			30	1,031	963	3.89	3.68	- On November 29,2004, we experienced a heavy rainfall in just 12 hours. The recorded rainfall was 342 mm that cause flashflood that reached 18 m above sea level at intake site, almost of the service areas was submerged. Intake gate was destroyed. 1.2 km river channel was gone, protection dike was washout, main caN/AI was heavily silted and full of debris and almost one third of service areas was covered by mud and drifted woods. due to this irrigation was totally			
87		Palico	Palico	N/A	N/A	N/A	N/A	N/A		#VALUE!	835	835	664	Paddy	Paddy	100	79.5	N/A	#VALUE!	#VALUE!				N/A	N/A	N/A	N/A				
88		LaguN/A Fritar	Cabuyao PIS		0.80	0.64	0.80			0.64																					
89			San Cristobal		0.41	0.57	0.53			0.67																					
90			Diezmo PIS		0.54	0.71	0.61			0.71																					
91			Macabbling	1,767.3	0.53	0.85	0.68	N/A		#VALUE!	679	344	418	Paddy	Paddy	50.7	61.6	0.81	2.13	#VALUE!		5	100	376	413	3.55	3.48	- Siltation of main and lateral caN/AI - Control devices are too tight to lift - Crop infestation and heavy rainfall - Low yield - Farmers attitude toward ISF - Urbanization of area being prime Calabarzon development - Drain/Age caN/AI siltation	- Desilting and repair of control device - CoordN/AI with DA Technician - Encourage farmers to plant DA certified seeds - Low price of paly at market - POW for funding		
92			San Juan		0.74	0.75	0.75			0.75																					
93		Sta. Maria-Mayor	Sta. Maria	1,737.0	N/A	N/A	N/A	N/A		#VALUE!	447	430	447	Paddy	Paddy	96.2	100.0	N/A	#VALUE!	#VALUE!				N/A	N/A	N/A	N/A	- Shortage of irrigation water	Introduction of rotation irrigation per TSA		
94			Mayor		N/A	N/A	N/A	N/A		#VALUE!																					
95			Dambo PIS		N/A	N/A	N/A	N/A		#VALUE!																					
96		Sta. Cruz-Mabacan-BalaN/Ac	Sta. Cruz	1,887.9	N/A	N/A	N/A	3.25		#VALUE!	2,184	1,986	2,011	Paddy	Paddy	90.9	92.1	1.92	0.96	1.33		250	350	125	2,104	2,160	4.77	3.49	- Farming activities do not follow the proposed cropping schedule, so that water man/Agement is difficult in the system - Stealing of water is frequent by operation headgate in night - Low lying areas along the LaguN/A Lake was inundated in October 2005 for about	- Meeting with an attendance of farmers will be needed to explain to follow the proposed cropping schedule - Tapping and assistance of LGU staff for police power - Dredging works for N/Atural drain/Age will be needed, if funds are available	
97			Mabacan	N/A	N/A	N/A	N/A	N/A		#VALUE!	272	220	270	Paddy	Paddy	80.9	99.3	N/A	#VALUE!	#VALUE!		40		N/A	N/A	N/A	N/A				
98			BalaN/Ac	1,000.3	N/A	N/A	N/A	N/A		#VALUE!	1,000	950	850	Paddy	Paddy	95	85.0	N/A	#VALUE!	#VALUE!				N/A	N/A	N/A	N/A				
99			Lumban	N/A	N/A	N/A	N/A	N/A		#VALUE!	57	50	35	Paddy	Paddy	87.7	61.4	N/A	#VALUE!	#VALUE!		20		N/A	N/A	N/A	N/A				
100			Malaunod	N/A	N/A	N/A	N/A	N/A		#VALUE!	174	164	160	Paddy	Paddy	94.3	92.0	N/A	#VALUE!	#VALUE!				N/A	N/A	N/A	N/A				
101		Dumacaa-HaN/Agdong-LagN/As	Dumacaa	3,090.1	7.63	4.95	6.29	1.79		3.16	1,840	1,456	1,593	Paddy	paddy	79.1	86.6	0.72	0.47	1.07		385	250		1,809	1,521	4.08	3.88	- insufficient water supply due to illegal loggings, slash & burn activities, or the so-called hangings that affected	- Strengthening the law concerning on illegal logging and karnings activities - Promote and strengthen IA for the rotation/AI method of irrigation, implementing effective water distribution and cropping pattern	
102			HaN/Agdong	3,090.1	0.6	0.57	0.59	0.23		0.34	280	280	280	Paddy	Paddy	100.0	100.0	0.14	0.50	0.09		83	40		220	246	4.15	3.9	- insufficient water supply due to illegal loggings, slash & burn activities, or the so-called hangings that affected	- Strengthening the law concerning on illegal logging and karnings activities - Promote and strengthen IA for the rotation/AI method of irrigation, implementing effective water distribution and cropping pattern	
103			LagN/As	3,090.1	0.73	0.92	0.82	0.57		0.35	640	618	621	Paddy	Paddy	96.6	97.0	0.35	0.56	0.22		20	20		461	495	4.09	3.96	- insufficient water supply due to illegal loggings, slash & burn activities, or the so-called hangings that affected	- Strengthening the law concerning on illegal logging and karnings activities - Promote and strengthen IA for the rotation/AI method of irrigation, implementing effective water distribution and cropping pattern	
104		Pagbahhan	Pagbahhan	2,034.3			N/A	N/A		#VALUE!	773	771	670	Paddy	Paddy	99.7	86.7	N/A	#VALUE!	#VALUE!		450	200		441	447	3.31	3.47	- Water shortage of brushdam damaged during dry season and the farmers always running out irrigation water - Flood occur during continuous successive rain for one week and it is brought by typhoon. Our drain/Age caN/AI can not accommodate excessive water due to siltation	- We encourage the farmers to have a rotation/AI method in delivering water to their fields. - Intake gate should be closed and open spillway to spill the excess water in the caN/AI and drain/Age	

No	Region	RC/NISO	NIS	Water Resources, Irrigation Water Use and Flood and Drain/Age Information																																
				1. Water Resources for Irrigation								2. Irrigation Area and Cropping Intensity										3. Damaged Area				4. Average Benefited Area and Crop Yield				5. Evaluation of Irrigation and Drain/Age Conditions						
				Annual Rainfall	Average Runoff	Discharge	Annual Diverted Intake Dis.			(8) - (11)	Firmed-Up Service Area	Irrigated Area		Main Crop		Cropping Intensity		Average Irrigation Water Requirement	(11)-(20)	Irrigation Damage by Water Shortage		Drain/Age Damages by Poor Drain/Age and	Benefited Area		Crop Yield		Present Conditions and Encountered Problems	Countermeasures to solve the Problems								
				R (mm)	Dry Season Qar(d) (m3/sec)	Wet Season Qar(w) (m3/sec)	Annual Qar (m3/sec)	Dry Season Qad (d) (m3/sec)	Wet Season Qad (w) (m3/sec)	Annual Qad (m3/sec)	(m3/sec)	FUSA (ha)	Dry Season Ad (ha)	Wet Season Aw (ha)	Dry Season Season	Wet Season Season	Dry Season Cid (%)	Wet Season Ciw (%)	Qiw (m3/sec)	(lit/sec/ha)	(m3/sec)		Wet S (ha)	Dry S (ha)	Bad (ha)	Wet Season Baw (ha)			Dry Season Cyd (ton/ha)	Wet Season Cw (ton/ha)						
(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)										
105	Reg. IV	Baco Bucayao-Mag-Asawang Tubig	Baco Bucayao	868.4	N/A	N/A	N/A	N/A					#VALUE!	4,032	3,649	3,492	Paddy	Paddy	90.5	86.6	N/A	#VALUE!	#VALUE!	540	383			3,046	3,250	4.05	3.81	- Irrigation caN/AI and caN/AI structure were damaged due to flooding caused by scoured /damaged protection dike brought by typhoon Quedan. - Almost 1.0 km of protection dike was scoured/damaged due to typhoon Quedan alst December 2005. Closed drain/Age system at main caN/AI extension due to construction/improvement of East Rainbow Village.	- Immediate repair was done in damaged caN/AI and structures - Immediate restoration of protection dike and urgent installation of gabion armouring.			
106			Mag-Asawang Tubig		N/A	N/A	N/A						#VALUE!						#####	#####		#DIV/0!	0.00													
107		AmN/Ay-Partic-Mongpong	AmN/Ay-Patric	N/A	N/A	N/A	N/A	N/A					#VALUE!	1,628	1,339	1,350	Paddy	Paddy	82.2	82.9	N/A	#VALUE!	#VALUE!		300	20	960	1,225	3.5	3.44	- Farmditches were constructed during project implementation, but at present most farmditches were no longer existing making poor water distribution along paddy field. - Submerged area was experienced at the downstream portion of the service area, especially Lateral "B" during wet season	- Promote and strengthen IA for provision of farmditches at on-farm level - Provision of drain/Age caN/AI on the downstream portion of the service area.				
108			Mongpong		N/A	N/A	N/A						#VALUE!						#####	#####		#DIV/0!	0.00													
109			Pula-Bansud		N/A	N/A	N/A						#VALUE!						#####	#####		#DIV/0!	0.00													
110			Bansud		N/A	N/A	N/A						#VALUE!						#####	#####		#DIV/0!	0.00													
111			Lumintao		N/A	N/A	N/A	N/A					#VALUE!	1,021	750	850	Paddy	Paddy	73.5	83.3	N/A	#VALUE!	#VALUE!	120	450			N/A	N/A	N/A	N/A			- Water shortage due to untimely brushdamming	- Provision of equipments especially bulldozer	
112			Caguray		1,970.0	N/A	N/A	N/A	N/A				#VALUE!	1,990	350	1,600	Paddy	Paddy	17.6	80.4	N/A	#VALUE!	#VALUE!					N/A	N/A	N/A	N/A			- Yearly problems in this system is the shortage of water from the source started during the month of December to April caused by denuded forest and watershed.	- We inform/decimate to the farmers to plant early, but some of them do not follow instruction. Due to strong wind, they did not follow the cropping calendar planting and result to low yield crop.	
113			Cantingas		771.2	N/A	N/A	N/A	N/A				#VALUE!	284	284	284	Paddy	Paddy	100	100.0	N/A	#VALUE!	#VALUE!					284	284	3.27	3.27					
114			Batang-Batang-Malatgao		1,678.3	15.72	15.72	17.25	3.04				#VALUE!	3,062	1,255	1,497	Paddy	Paddy	41	48.9	2.27	1.65	0.77					703	947	2.94	3.73	- Available irrigation water could not be utilized because of no diversion structures constructed.	- Regular maintenance of the brush dam			
115			Malatgao		1,697.1	5.3	5.3	5.88	3.7				#VALUE!	3,014	2,500	3,014	Paddy	Paddy	82.9	100.0	1.27	0.46	2.43					1,078	1,907	2.91	3.47	- Available irrigation water requirement is independent with the amount of rainfall because of poor vegetative watershed area	- Every sector has its own cropping calendar to adopt and the first to use irrigation water will be first to be cut-off.			
116	Reg. V	Daet Talisay-Matogdon	Daet Talisay	2,541.0			N/A	N/A					#VALUE!	2,541	N/A	N/A	N/A	N/A	#####	#####	N/A	#VALUE!	#VALUE!	N/A	N/A	N/A	1,793	2,020	3.61	3.78						
117			Matogdon		N/A		N/A	N/A					#VALUE!	300	N/A	N/A	N/A	N/A	#####	#####	N/A	#VALUE!	#VALUE!	N/A	N/A	N/A	140	154	3.71	3.81						
118			LibmaN/An Cabusao		N/A		N/A	N/A					#VALUE!	2,076	1,018	0	Paddy	Paddy	49	0.0	N/A	#VALUE!	#VALUE!	N/A	N/A	N/A	955	644	3.55	3.65						
119			HiN/AgyaN/An-Arihan		2,213.2	122.08	89.89	105.99	N/A				#VALUE!	3,542	N/A	N/A	N/A	N/A	#####	#####	N/A	#VALUE!	#VALUE!	N/A	N/A	N/A	2,185	1,987	4.27	4.07						
120			IN/Arihan										0.00						#####	#####		#DIV/0!	0.00													
121			Cagayan Cagaycay		2,106.2	N/A	N/A	N/A	N/A				#VALUE!	1,745	N/A	N/A	N/A	N/A	#####	#####	N/A	#VALUE!	#VALUE!	N/A	N/A	N/A	1,351	1,367	4.01	3.98						
122			RincoN/Ada Integrated			N/A	N/A	N/A					#VALUE!						#####	#####		#DIV/0!	0.00													
123			Rida			N/A	N/A	N/A					#VALUE!						#####	#####		#DIV/0!	0.00													
124			Buhi-Lalo			N/A	N/A	N/A					#VALUE!						#####	#####		#DIV/0!	0.00													
125			MahabaN/Asisi Ogsong-Hibiga		N/A	N/A	N/A	N/A	N/A				#VALUE!	567	N/A	N/A	N/A	N/A	#####	#####	N/A	#VALUE!	#VALUE!	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
126			N/Asisi Ogsong		N/A	N/A	N/A	N/A	N/A				#VALUE!	780	N/A	N/A	N/A	N/A	#####	#####	N/A	#VALUE!	#VALUE!	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
127			Hibiga		N/A	N/A	N/A	N/A	N/A				#VALUE!	417	N/A	N/A	N/A	N/A	#####	#####	N/A	#VALUE!	#VALUE!	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
128			Pili-Bulan San-Barbara			N/A	N/A	N/A	N/A				#VALUE!						#####	#####		#DIV/0!	0.00													
129			San Francisco			N/A	N/A	N/A	N/A				#VALUE!						#####	#####		#DIV/0!	0.00													
130			San Ramon			N/A	N/A	N/A	N/A				#VALUE!						#####	#####		#DIV/0!	0.00													
131	Reg. VI	Aklan PaN/Akuyan	Aklan (East Side)	1,847.8	1.46	1.72	1.59	1.40					0.32	2,265	2,000	2,266	Paddy	Paddy	88.3	100.0	0.19	0.09	1.21	266			180	1,904	1,981	3.6	3.58	- Lack of drain/Age and farmditches - Silted drain/Age caN/AIs	- Reconstruction of drain/Ages and farmditches - Desilting of drain/Age caN/AIs			
			Akulán (West Side)	1,026.4				33.09	1.40				-1.40	1,546	1,500	1,546	Paddy	Paddy	97.0	100.0	0.21	0.14	1.19	46			160	1,463	1,453	3.61	3.61	- Main caN/AI passes through quagmire - Poor function of drain/Age facilities	- Construction of concrete lining - Construction of addition/AI drain/Age facilities - Rehabilitation of existing drain/Age facilities			
			Akukan (Dumga)	1,016.0				4.29	1.40				-1.40	80	75	80	Paddy	Paddy	93.8	100.0	0.13	1.68	1.27	5			15	72	74	3.54	3.52	- Insufficient supply of water - Poor function of drain/Age facilities	- Rehabilitation of caN/AI is recommended - Rehabilitation of existing drain/Age facilities			

Water Resources, Irrigation Water Use and Flood and Drain/Age Information																															
No	Region	RC/NISO	NIS	1. Water Resources for Irrigation											2. Irrigation Area and Cropping Intensity								3. Damaged Area			4. Average Benefited Area and Crop Yield				5. Evaluation of Irrigation and Drain/Age Conditions	
				Annual Rainfall R (mm)	Average Runoff		Discharge		Annual Diverted Intake Dis.			(8) - (11) (m3/sec)	Firmed-Up Service Area FUSA (ha)	Irrigated Area		Main Crop		Cropping Intensity		Average Irrigation Water Requirement		(11)-(20) (m3/sec)	Irrigation Damage by Water Shortage		DraIn/Age Damages by Poor DraIn/Age and (ha)	Benefited Area		Crop Yield		Present Conditions and Encountered Problems	Countermeasures to solve the Problems
					Dry Season Qar(d)	Wet Season Qar(w)	Annual Qar	Dry Season Qad (d)	Wet Season Qad (w)	Annual Qad	Dry Season Ad			Wet Season Aw	Dry Season Cid	Wet Season Ciw	Qiw	Qiw	Wet S. (ha)	Dry S. (ha)	Dry Season Baw		Wet Season Baw	Dry Season Cyd		Wet Season Cyd					
					(m3/sec)	(m3/sec)	(m3/sec)	(m3/sec)	(m3/sec)	(m3/sec)	(ha)			(ha)	(ha)	(%)	(%)	(m3/sec)	(lit/sec/ha)	(m3/sec)	(ha)		(ha)	(ha)		(ha)	(ton/ha)	(ton/ha)			
(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)					
132	Reg. VI		PaN/Akuyan	2,219.2	0.91	2.55	1.73	0.35		2.20	504	300	504	Paddy	Paddy	59.5	100.0	0.13	0.32	0.22	300	424	32	300	483	3.54	3.51	- Lack of farmditch; farmditches have been provided by the system, at present, most of the farm ditches does not exist at farm level. Therefore, an effective water distribution could not be attained. - Lack of drain/Age caN/AI; drain/Age caN/AIs are no longer operation/AI/not existing at the system - System has no rehabilitation works on drain/Age facilities. All drain/Age facilities are no longer operation/AI/not existing in the system	- Promote and strengthen IA for provision of farmditches at on-farm level - Provide assistance for the reconstruction of farmditches - Provision of drain/Age caN/AIs in the system - Reconstruction, provision and rehabilitation of drain/Age facilities in the system is highly recommended		
133		Sibalom-San Jose	Sibalom-San Jose	2,740.8	1.22	2.13	1.67	0.36		1.77	3,969	3,152	3,581	Paddy	Paddy	79.4	90.2	1.53	0.45	-1.17				1,954	3,402	4.02	4.18	- Heavy siltation in main, lateral caN/AI, benchflume and structure hamper the operation in water delivery and distribution - Due to no rehabilitation works of drain/Age facilities, frequent drain/Age damages are taken place at down stream areas in wet season	- Immediate rehabilitation of said irrigation facilities is recommended. - Provision and rehabilitation of drain/Age caN/AIs		
134		Mambusao	Mambusao	2,302.0	N/A	N/A	N/A	0.75		#VALUE!	1,420	987	1,019	Paddy	Paddy	69.5	71.8	1.15	1.15	-0.40	250		100	893	937	3.71	3.63	- Excessive use of water by farmer - Malfunction of irrigation facilities - Less flow capacity of caN/AI	- Restoration of irrigation facilities - Information dissemination to the farmers regarding to excessive use of water		
135		Jaluar-Suague	Jaluar-Propor	1,900.0	59.83	59.73	59.78	9.72		50.01	8,208	4,724	8,212	Paddy	Paddy	57.6	100.0	7.85	1.21	1.87	1,077		1,050	4,317	5,970	3.84	3.84	- CaN/AI discharge was increased in CY2004-2005, consequently increasing areas irrigated	- Cleaning of main caN/AI structures, increase of main caN/AI head gate discharge were measures undertaken		
136			Jaluar- Extension	1,316.4	59.83	59.73	59.78	1.72		58.01	2,144	2,086	2,128	Paddy	Paddy	97.3	99.3	1.30	0.62	0.42	820	152	50	1,603	2,101	4.03	4.12	- CaN/AI discharge availability even on downstream section is not much of a problem in this crop year. - Downstream section is flooded and submerged usually during the month of November and December due to heavy rainfall occurrence and substantial volume of surface run-off which drains-off to the main caN/AI	- Cleaning of main caN/AI structures, cleaning of conveyance channel and increase of main caN/AI head gate discharge were measures undertaken - Immediate closures of main caN/AI head gates upon advisory of abnormal weather conditions - Constructed mega dike in Barotac Nuevo, Iloilo blocking flood water in the Jaluar river to enter downstream section of Jaluar Extension		
137			Suague	1,900.0	5.6	8.08	6.84	2.36		5.72	2,453	1,971	2,453	Paddy	Paddy	80.4	100.0	2.59	1.17	-0.23	400			1,842	2,475	4.10	4.10	- Soil type in Suague RIS has a greater water holding capacity, so that actual irrigated area during dry season crop exceeds that of the program area of the same cropping season. Residual moisture after wet season crop is carried over on the next cropping season, LP/LS activity requiring less irrigation water requirement, increasing area that can be irrigated - Downstream section of Suague area is likewise submerged and flooding during months of November and December with	- To maintain higher efficiency Suague area has effective WDD program, regular cleaning of structures and conveyance channels. - Proposed excavation and desilting of main drain/Age caN/AI		
138		Sibalom-Tigbuan	Sibalom-Tigbuan	1,574.0	0.67	1.98	1.32	1.36		0.62	2,019	1,000	1,850	Paddy	Paddy	49.5	91.6	0.55	0.39	0.81	844	1,447	500	545	1,442	4.02	4.51	- Lack of main farmditches and supplementary farmditches - Existence of an unauthorized turn-out - Presence of heavy debris during floods and continuous rain - No rehabilitation work and construction of additional drain/Age facilities	- Encourage farm lot owners to restore farm ditches - Strengthen IA to promote cooperation - Rehabilitation and construction of additional drain/Age caN/AI and structures		
139		AgaN/An-Ata. Barbara	AgaN/An	2,086.3	0.91	2.55	1.73	1.18		1.37	4,467	2,211	4,284	Paddy	Paddy	49.5	95.9	1.31	0.40	-0.13			1,000	1,371	3,522			- Due to no rehabilitation works of drain/Age facilities, frequent drain/Age damages are taken place at the downstream areas in wet season	- Promote and strengthen IA for provision of farmditches at on-farm level - Provision and rehabilitation of drain/Age caN/AIs		
140			Sta. Barbara	2,086.3	3.69	10.54	7.11	1.59		8.95	3,062	2,579	2,704	Paddy	Paddy	84.2	88.3	1.31	0.50	0.28			1,200	1,346	1,951			- Lack of farmditches - Due to no rehabilitation works of drain/Age facilities, frequent drain/Age damages are taken place at the downstream areas in wet season	- Promote and strengthen IA for provision of farmditches at on-farm level - Provision and rehabilitation of drain/Age caN/AIs		
141		Barotac Viejo	Barotac Viejo	1,996.8	2.77	4.24	3.50	2.46		1.78	1,700	974	1,161	Paddy	Paddy	57.3	68.3	0.71	0.67	1.75			98	35	726	1,395	3.8	3.85	- IN/Adequate farmditches : some farmditches were repaired/rehabilitated during the implementation of AAPP, but most farmditches are not existing, wherein an effective water distribution could not be fully implemented. - Non rehabilitation works on drain/Age caN/AIs and structures, which resulted in crop damages during wet season. Part of creek converted to riceland and houses were constructed along banks and wastes are not properly disposed.	- Promote and strengthen IA for provision of damditches at on-farm level - Rehabilitation of drain/Age facilities particularly main drain/Age (creek) and drain/Age structures - Involve Balingay Officials to help in the campaign of proper waste disposal	

Water Resources, Irrigation Water Use and Flood and Drain/Age Information																														
No	Region	RC/NISO	NIS	1. Water Resources for Irrigation											2. Irrigation Area and Cropping Intensity								3. Damaged Area		4. Average Benefited Area and Crop Yield				5. Evaluation of Irrigation and Drain/Age Conditions	
				Annual Rainfall R (mm)	Average		Discharge Qar (m ³ /sec)	Annual Diverted Intake Dis.			(8) - (11) (m ³ /sec)	Firmed-Up Service Area FUSA (ha)	Irrigated Area		Main Crop		Cropping Intensity		Average Irrigation Water Requirement Qiw (lit/sec/ha)	(11)-(20) (m ³ /sec)	Irrigation Damage by Water Shortage		Drain/Age Damages by Poor Drain/Age and (ha)	Benefited Area		Crop Yield		Present Conditions and Encountered Problems	Countermeasures to solve the Problems	
					Dry Season Qar(d)	Wet Season Qar(w)		Dry Season Qad (d)	Wet Season Qad (w)	Annual Qad			Dry Season Ad	Wet Season Aw	Dry Season Cid	Wet Season Ciw	Wet S (ha)	Dry S (ha)			Dry Season Bad	Wet Season Baw		Dry Season Cyd	Wet Season Cw					
					(m ³ /sec)	(m ³ /sec)		(m ³ /sec)	(m ³ /sec)	(m ³ /sec)			(ha)	(ha)	(%)	(%)	(m ³ /sec)	(m ³ /sec)			(ha)	(ha)		(ton/ha)	(ton/ha)					
(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)				
142	Reg. VI	Bago	Bago	2,200.3	14.97	16.05	15.51	N/A	#VALUE!	13,277	6,810	8,252	Paddy	Paddy	51.3	62.2	1.43	0.19	#VALUE!	#VALUE!	2,000	605	7,027	8,200	4.01	3.99	- Deteriorated irrigation facilities - On-farm facilities constructed under NISIP II were damaged and resulted to ineffective and inefficient water delivery and distribution - Due to none rehabilitation/improvement work of drain/Age caN/AIs and related facilities, at the southern portion of the system, especially during wet season	- Promote and sustain IA strengthening as well as provide rehabilitation/improvement of on-farm facilities - Construction and improvement of drain/Age facilities and other related facilities		
143		Pangiplan	Pangiplan	1,693.9	0.89	0.43	0.66	0.87	-0.44	1,168	1,012	1,012	Paddy	Paddy	86.6	86.6	N/A	#VALUE!	#VALUE!		200	350	972	974			- Lack of on-farm control structures - Most of steel gates of MTO are damaged which make it difficult to control on-farm flow. - IN/Adequate drain/Age systems and constricted/heavily silted drain/Age caN/AIs.	- Provide new steel gate to MTO in order to control on-farm flow and minimize water waste - Desilting of drain/Age caN/AI		
144	Reg. VII	Bohol	Bohol	2,196.8	N/A	N/A	N/A	2.90	#VALUE!	4,387	2,383	2,062	Paddy	Paddy	54.3	47.0	N/A	#VALUE!	#VALUE!		300	20	2,403	2,211	4.15	4.19	- Water supply for irrigation dependent on rainfall, reservoir can not sustain field water requirement	- Controlled irrigation - Introduction of water saving technology/diversified crop cultivation - Aerobic rice cultivation - AlterN/Ate wetting and drying		
145		Capayas																												
146	Reg. VIII	Maint-Pongso	Maint	2,247.3	7.7	4.83	6.01	2.87	1.96	2,161	1,601	1,826	Paddy	Paddy	74.1	84.5	1.34	0.78	1.53		200	50	666	1,002	4.18	4.15	- Lack of farm ditches has hampered the implementation of effective water distribution	- Promote and strengthen IA for provision of addition/AI farm ditched at on-farm level		
147		Pongso		3,086.1	N/A	N/A	N/A	0.88	#VALUE!	780	608	640	Paddy	Paddy	77.9	82.1	0.49	0.79	0.39		50	20	471	542	3.78	3.99	- Effective water distribution not implemented due to lack/dilapidated farm ditches	- Promote and strengthen IA for provision of farm ditched at on-farm level		
148		Bao	Bao	2,273.8	N/A	N/A	N/A	2.35	#VALUE!	2,185	2,035	2,120	Paddy	Paddy	93.1	97.0	1.35	0.65	1.00				1,521	1,814	3.78	3.69	- Lack of return flow facilities - Due to no improvement, caN/AI desilting, embankment formation and drain/Age facilities, frequent drain/Age damages are taken place at down stream areas	- Construction of return flow facilities - Drain/Age improvement and provision of drain/Age facilities		
149		BiN/Ahaan-Tibak	BiN/Ahaan North	3,623.0	N/A	N/A	N/A	N/A	#VALUE!	1,934	1,151	1,285	Paddy	Paddy	59.5	66.4	0.94	0.77	#VALUE!		28	57	1,119	1,239	3.71	3.85	- Lack of farm ditches - Illegal diversion - Low embankment	- STA facilities plan/program - Strengthen IA/implement caN/AI lining		
150			BiN/Ahan South	3,623.0	10.85	8.25	10.85	N/A	#VALUE!	1,410	1,001	1,020	Paddy	Paddy	71.0	72.3	0.84	0.83	#VALUE!				781	887	3.53	3.63	- Silt deposit s at some portion of supply caN/AIs - Low dilapidated caN/AI embankment - Supply rotation schedule not implemented - Lack/dilapidated drain/Age facilities	- CaN/AI improvement (desilting) - ISC strengthening - Improvement of existing drain/Age facilities		
151			Lower BiN/Ahaan	3,623.0	N/A	N/A	N/A	N/A	#VALUE!	1,200	362	504	Paddy	Paddy	30.2	42.0	0.33	0.76	#VALUE!				270	287	3.60	N/A	- Water shortage at the middle and downstream area	- Addition/AI water supply from newly completed Marabong dam will serve about 750 ha at downstream area		
152			Tibak	3,080.6	1.34	0.49	0.92	N/A	#VALUE!	1,630	1,086	1,193	Paddy	Paddy	66.6	73.2	0.78	0.68	#VALUE!				1,092	988	3.92	3.95	- Water shortage at downstream portion of supply caN/AI/service area - Drain/Age problems at Balangay san. Migulay, Bandiangay and Cagumang.	- CaN/AI improvement/caN/AI lining - Drain/Age problems on affected areas is recurrent.		
153		Daguitan-Guin/AroN/A	Daguitan	2,529.5	11.3	7.81	9.56	2.74	5.07	916	520	748	Paddy	Paddy	56.8	81.7	0.52	0.82	2.22			168	386	573	3.48	3.64	- Continues paddy to paddy application resulted to wastage of irrigation water/over supply applied - Control of sluice gate during flood flows	- Control flow at main diversion - Converting the sluice gate into mechanical driven		
154			GumaroN/A	2,192.9	2.94	1.78	2.36	1.68	0.10	646	300	601	Paddy	Paddy	46.4	93.0	0.45	1.00	1.23			48	297	295	3.89	3.98	- Lack of supply from main source between the month of August to October 2004	- Implementation of rotation/AI irrigation		
155		Balire-Ibawon Gibuga	Balire North	3,775.4	1.94	1.18	1.56	N/A	#VALUE!	300	245	245	Paddy	Paddy	81.7	81.7	0.35	1.43	#VALUE!			245	174	194	3.31	3.47	- Reduced flow of water supply due to damaged diversion dam and lack of termiN/AI facilities - During wet season, almost all of the area are flooded due to lack of drain/Age	- Immediate repair of diversion dam and construction of termiN/AI facilities - Construction of drain/Age caN/AIs		
156			Balire South	3,775.4	1.94	1.18	1.56	N/A	#VALUE!	396	230	274	paddy	Paddy	58.1	69.2	0.44	1.75	#VALUE!				195	192	3.29	3.49	- During wet season, almost all of the area are flooded or submerged and/or boggy hence could not be planted with rice, and also erosion of protection dikes on major structures - Dilapidated irrigation facilities	- Prepare program of works for drain/Age caN/AI and desilting boggy areas to drain out excess water - Construction of termiN/AI facilities and repair of dilapidated caN/AI structures, main and lateral caN/AIs		
157			Ibawon	3,775.4	4.33	2.64	3.48	N/A	#VALUE!	281	236	278	Paddy	Paddy	84	98.9	0.39	1.52	#VALUE!			281	209	214	3.33	3.36	- Insufficient water supply due to a) shortage of water from dam, b) dilapidated irrigation facilities, c) illegal turnouts and illegal checking, d) farmers interference on gate operations leading to iN/Adequate water distribution, e) silted	- Construction of supplementary dams and turnouts, repair/improve caN/AI structures and desilt or lined caN/AIs		
158			Gibuya	2,906.9	7.06	4.30	5.68	N/A	#VALUE!	738	263	387	Paddy	Paddy	35.6	52.4	0.94	2.89	#VALUE!				338	356	3.33	3.39	- Water shortage from main source, poor conveyance and distribution efficiency due to dilapidated caN/AI structures and scoured caN/AIs - During wet season majority of service area are flooded/submerged, hence could not be planted with rice crop and also erosion of protection dikes on major structures	- Rehabilitation and repair all dilapidated caN/AI structures and scored caN/AIs - Construction of drain/Age caN/AIs		
159		Bito	Bito	2,906.9			7.98	2.59	-2.59	1,602	1,199	1,484	Paddd	Paddy	74.8	92.6	1.05	0.78	1.54				862	1,108	3.68	3.50	- Water shortage at end portion of supply caN/AI/service area	- Implementation of rotation/AI irrigation and modification of cropping schedule		

No	Region	RC/NISO	NIS	Water Resources, Irrigation Water Use and Flood and Drain/Age Information																										
				1. Water Resources for Irrigation								2. Irrigation Area and Cropping Intensity								3. Damaged Area				4. Average Benefited Area and Crop Yield				5. Evaluation of Irrigation and Drain/Age Conditions		
				Annual Rainfall R (mm)	Average Runoff		Discharge		Annual Diverted Intake Dis.		(8) - (11) (m3/sec)	Firmed-Up Service Area FUSA (ha)	Irrigated Area		Main Crop		Cropping Intensity		Average Irrigation Water Requirement		(11)-(20) (m3/sec)	Irrigation Damage by Water Shortage		Drain/Age 4 Damages by Poor Drain/Age and (ha)	Benefited Area		Crop Yield		Present Conditions and Encountered Problems	Countermeasures to solve the Problems
					Dry Season Qar(d)	Wet Season Qar(w)	Annual Qar	Dry Season Qad (d)	Wet Season Qad (w)	Annual Qad			Dry Season Ad	Wet Season Aw	Dry Season Season	Wet Season Season	Dry Season Cid	Wet Season Ciw	Qiw (m3/sec)	lit/sec/ha		Wet S (ha)	Dry S (ha)		Dry Season Baw	Wet Season Cwd	Dry Season Cw	Wet Season Cw		
(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)				
175	Reg. XI	Saug-Libuganon Left	Saug	2,147.6	30.9	17.36	24.13	3.47	13.89	4,177	4,165	4,390	Paddy Other	Paddy Other	99.7	105.1	2.32	0.54	1.15	1,697	1,733	1,000	1,787	2,209	1.77	1.93	- Unconditioned river discharge due to denudation watershed - Irregular caN/AI prism-very limited funding mainteN/Ance - Overflowing of Saug and Libuganon river - Poor drain/Age network - Very minimal funding for repair/rehabilitation	- Watershed reforestation - Sufficient Funding to repair/rehabilitate irrigation facilities - CaN/AI concrete lining to minimize irrigation water use during the occurrence of El Nino phenomenon - Introduction of Left Intake Cannel at the damsite to irrigate high grounds at Main CaN/AI East including baN/AN/A plantation - Construction of protection dike - Desilting/strengthening of primary and secondary drain/Age		
176			Libuganon-Left	N/A	N/A	N/A	N/A	0.85	#VALUE!	708	600	666	Paddy Other	Paddy Other	84.7	94.1	5.17	8.17	-4.32	250	200		406	441	3.95	3.98	- Occurrence of El Nino phenomenon - UnfunctionN/AI silt excluder - Silted irrigation caN/AI - Accretion form at the left bank of the Libuganon river	- Concrete lining of maximum water use during dry month - Repair of silt excluder - Desilting irrigation caN/AI - Removal of accretion		
177		Lasang-Libuganon-Kipaliku	Lasang	1,627.0	N/A	N/A	N/A	4.07	#VALUE!	4,726	4,694	4,726	Paddy	Paddy	99.3	100.0	4.82	1.02	-0.75	600	350		3,111	3,369	3.71	3.65	- Heavy siltations during flash floods	- Need desilting and raising of embankment		
178			Libuganon-Right	1,060.1	N/A	N/A	N/A	9.12	#VALUE!	7,031	7,036	7,031	Paddy	Paddy	100.1	100.0	6.15	0.87	2.97	910	360		3,584	4,221	3.42	3.37	- RotatioN/AI irrigation followed according to approved water scheduling - Defected steel gates - Heavy siltations during flash floods	- Removal of defective steel gates and change a new one - Needs desilting and raising of embankment		
179			Kipaliku	1,959.9	N/A	N/A	N/A	2.28	#VALUE!	2,344	2,317	2,344	Paddy	Paddy	98.8	100.0	3.41	1.46	-1.13	480	350		1,358	1,501	3.32	3.69	- RotatioN/AI irrigation followed according to approved water scheduling - Defected steel gates - Heavy siltations during flash floods	- Removal of defective steel gates and change a new one - Needs desilting and raising of embankment		
180		Mal-Padada	Mal	1,508.0	2.92	4.13	3.52	3.33	0.80	2,635	2,343	2,555	Paddy	Paddy	88.9	97.0	1.58	0.65	1.75	293	80		1,490	2,324	3.76	4.21	-	- Massive information dissemin/Ation, active participation of IA in O&M activity, implementation of cropping calendar and pattern, implementation of rotatioN/AI distribution, organized irrigation crisis maN/Agement		
181			Padada	934.1	6.64	7.21	6.92	2.30	4.91	2,519	2,500	2,508	Paddy	Paddy	99.2	99.6	3.75	1.50	-1.45				2,282	2,327	5.48	5.48				
182	Reg. XII	Alip-Talayan	Alip	1,167.0	3.63	3.64	3.63	2.26	1.38	3,101	2,819	3,101	Paddy	Paddy	90.9	100.0	3.94	1.33	-1.68	787		251	1,304	2,307	3.23	3.98	- Lack of farm ditches - Irrigation caN/AI siltation - Frequent drain/Age especially during wet season, due to no improvement of drain/Age facilities like	- Mobilized irrigators - Mechanized desilting due to heavy siltation along main and lateral caN/AIs - Spedy approval and release of DA and PIDP projects		
183			Talayan	1,856.2	N/A	N/A	N/A	6.32	#VALUE!	700	580	650	Paddy	Paddy	82.9	92.9	0.16	0.26	6.16				184	371	3.22	3.67				
184		Maridagao	Maridagao	1,856.0	N/A	N/A	N/A	5.87	#VALUE!	5,562	1,520	1,951	Paddy	Paddy	27.3	35.1	4.49	2.59	1.38			1,030.00	1,104	N/A	3.00					
185		Libuganon	Libuganon	859.2	18.69	28.06	23.37	6.26	21.80	9,168	8,370	9,141	Paddy	Paddy	91.3	99.7	1.30	0.15	4.96	1,366	812		5,585	7,073	3.62	3.51	- Water shortage during dry season - Head gates and MTO steel gates are damaged - Silted caN/AI that reduce water discharge	- Intermittent water distance - Assistance of the leader in water distribution - Utilization of IA's in desilting of small laterals		
186		KabulN/An	KabulN/An	2,891.9	N/A	N/A	N/A	3.88	#VALUE!	8,983	4,664	5,278	Paddy	Paddy	51.9	58.8	15.72	3.16	-11.84	450	100	950	1,370.00	2,917	2.91	3.46	- Poor and some lack of farmditches - Illegal checking of undisciplined farmers resulted to water shortage at downstream portion areas of he systems	- Promote and strengthen IA for provision o farmditches at on-farm level		
187		Kabacan-Pagalungan	Kabacan	1,490.4	3.73	3.33	3.53	0.46	2.87	4,423	4,390	4,423	Paddy	Paddy	99.3	100.0	3.29	0.75	-2.83				3,272	3,547	4.04	3.86	- Water shortage downstream of Lat. C2 - Kilagasan during dry season - Dalapuan river overflow cause flooding	- Desilting of south main caN/AI - Prevent the construction of box culvert along Dalapuan river though IA resolution		
188			Pagalungan	1,514.3	N/A	N/A	N/A	3.00	#VALUE!	703	400	600	Paddy	Paddy	56.9	85.3	N/A	#VALUE!	#VALUE!			145	97	205	3.63	3.13	- Water shortage at down stream portion due to silt especially at main caN/AI near intake	- Disiltation every cropping season		
189		Mlang-Malasila	Mlang	1,588.4	4.62	6.06	5.34	1.47	4.59	3,177	2,661	2,685	Paddy	Paddy	83.8	84.5	N/A	#VALUE!	#VALUE!			674	1,558	1,798	3.46	3.92	- Water is not limited, hence problems are very limited for the period 2004-2005 - Extremities of service area experienced flooding for almost 2 days	- Needs drain/Age desilting of existing drain/Age		
190			Malasila	1,286.7	5.15	7.71	5.93	5.56	2.15	4,013	3,876	3,989	Paddy	Paddy	96.6	99.4	N/A	#VALUE!	#VALUE!			474	2,354	2,934	2.96	4.1	- Water shortage of 19.5 ha - Silted Drain/Age	- Filed exception - Needs desilting of existing drain/Age		
191		Lambayong-Tacurong	Lambayaong	1,413.6	13.67	22.99	18.35	6.22	16.77	11,343	7,178	9,819	Paddy	Paddy	63.3	86.6	4.75	0.56	1.47	4,176	1,795	489	5,712	5,056	3.45	3.96	- Two much silt intrusion to main caN/AI - Flooding along Lapingkong river - Lack of irrigation water at the downstream portion - Breaching and erosion of Kapingkong afflux dike breaching of flood protection kike at barangay Kapingkong, spillover of flood water from the river to the fields of barangay Kabulacan Madanding and breaching of flood protection dike at Barangay Udtong causing crop damages in the area	- Frequent desilting activates done at main caN/AI setting basins 1 and 2 - Putting of sand bagging at low bank portion and construction and upgrading of breached of river banks - By means o water-reuse systems, office constructed check and weirs at creeks and drain/Ages to facilitate irrigation water services - Prepare necessary POW to restore river bank protection hoping for IN/Anical support of the N/AtioN/AI government and temporary restore the damages using limited resources and equipment. "In the absence of what is necessary, make use of what is available".		
192			Tacurong (Dumaguil)	1,394.8	12.97	21.67	17.13	1.74	19.93	1,762	1,462	1,512	N/A	N/A	83	85.8	N/A	#VALUE!	#VALUE!				1,298	1,449	3.42	3.75	- Drain/Ages and creeks need to be dredged	- Dredging and desilting done by the system's equipment and fuel by barangay counterpart		

Water Resources, Irrigation Water Use and Flood and Drain/Age Information																																		
No	Region	RC/NISO	NIS	1. Water Resources for Irrigation											2. Irrigation Area and Cropping Intensity								3. Damaged Area			4. Average Benefited Area and Crop Yield				5. Evaluation of Irrigation and Drain/Age Conditions				
				Annual Rainfall	Average Dry Season	Runoff Wet Season	Discharge Annual	Annual Diverted Intake Dis.			(8) - (11)	Firmed-Up Service Area	Irrigated Area			Main Crop		Cropping Intensity		Average Irrigation Water Requirement	(11)-(20)	Irrigation Damage by Water Shortage		Drain/Age Damages by Poor Drain/Age and	Benefited Area			Crop Yield		Present Conditions and Encountered Problems	Countermeasures to solve the Problems			
								Qar (d)	Qar (w)	Qar			Qad (d)	Qad (w)	Qad	FUSA	Ad	Aw	Paddy			Paddy	Dry Season		Wet Season	Qiw	Wet S	Dry S	Bad			Baw	Cyd	Cw
(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)								
193	Reg. XII	Allah-Banga-Marbel	Allah-1	416.2	N/A	N/A	N/A	5.39	#VALUE!	4,751	4,291	4,465	Paddy	Paddy	90.3	94.0	6.00	1.37	-0.61	380		30	N/A	N/A	N/A	N/A	- Shortage of available water supply, which could not sufficiently served the end portion of the system due to heavy siltation from Allah river - Insufficient drain/Age facilities to drain heavy flood along irrigation caN/AI and existing cross-way	- Establish regular funding for desiltation of irrigation caN/AIs - Construction of addition/Al drain/Age facilities						
194			Allah-2	417.3	N/A	N/A	N/A	7.75	#VALUE!	7,296	6,531	7,047	Pady	Paddy	89.5	96.6	6.00	0.88	1.75	400		380	N/A	N/A	N/A	N/A	- Shortage of water supply due to damaged caN/AI lining - Damaged drain/Age structures that can not hold on numerous volume of water during occurrence of flash-floods during wet season	- Provision of budgets for damaged caN/AI lining - Provision and rehabilitation of drain/Age caN/AIs						
195			Banga	2,281.7	4.64	5.22	4.93	2.14	3.08	2,554	2,495	2,541	Paddy	Paddy	97.7	99.5	2.60	1.03	-0.46	625			1,495	1,916	3.95	4.17								
196			Marbel-1	1,218.3	2.66	2.94	2.80	1.94	1.00	1,856	1,798	1,807	Paddy	Paddy	96.9	97.4	1.28	0.71	0.66	364		122	1,371	1,510	4.02	4.19	- Siltation of N/Atural creek where supplemental check structures are located During heavy rain paddy could not drain to the N/Atural creek utilized as drain/Age system due to heavy siltation	- Desilt the N/Atural creek for proper utilization of water re-use for irrigation needs - Desilt all sites of N/Atural creek during closure						
197			Marbel 2	1,221.3	N/A	N/A	N/A	1.4	#VALUE!	1,676	1,611	1,627	Paddy	Paddy	96.1	97.1	1.40	0.86	0.00		971	320	1,017	1,205	4.28	4.55	- Siltation of N/Atural creek where supplementary check structures are located During heavy rain the paddy could not drain to the N/Atural creeks utilized as drain/Age system due to heavy siltation of the N/Atural creek	- Desilt the N/Atural creek for proper utilization of water re-use for irrigation needs. - Desilt all silted N/Atural creek						
198		Siluyan-Buayan	Siluyay	1,292.7	2.18	2.51	2.34	2.58	-0.07	780	216	654	Other Paddy	Other Paddy	27.7	83.8	0.38	0.87	2.20	41	41		452	506	3.89	4.01								
199			Buayan	829.4	0.57	0.58	0.57	0.56	0.02	680	577	571	Paddy Other	Paddy Other	84.9	84.0	0.37	0.64	0.19	466	404	215	487	502	3.77	4.31	- 4 IA does not get water from TIN/Agacan river Baluan-Buayan IA get water from the water re-use/drain/Age water from Bauan creek Baluan-Lagao FIA, Gintong Ani FIA & Golden Grain FIA get water from farm-waste drain/Age of Siluyay RIS The middle and downstream areas of Buayan RIS FIA got water from Ligayan creek which draws water from the Labu creek Durbg heavy rain, run-off water/rain water overflow from irrigation caN/AI and floods the roads, community and paddy of Barangau Lagao, Baluan and Buayan	- 3 las which get water from Siluyay RIS are included in the cropping calendar and irrigation water schedule in order to equitably distribute water - The best and lifetime countermeasures are to construct the Datal dam, to continue the GSDP project, in order to develop and generate more agricultural lands that would benefit and uplift the present economic plight of farmers Based on the City Plan, it would utilize the Baluan creek as its main drain/Age outlet in which NIA has 2 brush dams used by 2 IAs. Also, we suggested that the creek should be properly improved since its outlet's elevation is only a meter above sea level						
200	Reg. XIII	Cabadbaran-Taguibo	Cabadbaran-Taguibo	1,876.1	7.85	4.36	6.10	1.90	2.46	2,500	2,212	2,300	Paddy	Paddy	88.5	92.0	2.13	0.94	-0.23			605	1,336	1,360	3.36	3.07	- The area is affected by over-the-bank river flood flow and slow drain/Age water removal problems	- The N/Atural drain/Age ditch were due for improvement by interconnecting the reclaimed portion and improving drain/Age channels. Thus, similarly, the benefited areas, which is very much less presently, would expand to as close to the irrigation areas						
201			Cantillan	3,778.7	2.39	1.62	3.33	1.21	0.41	1,825	1,552	1,593	Paddy	Paddy	85	87.3	N/A	#VALUE!	#VALUE!	175	75	463	1,349	1,402	3.88	3.77	- Deformation of main, lateral and sub-lateral caN/AIs - Missing/destroyed and damaged control gates - Sedimentation in caN/AI - Leaking of siphon due to damaged - Lack of termin/AI irrigation facilities - IN/Adequate drain/Age system/facilities - No flood protection wall - No creeks and river periodic maintenance - No periodic drain/Age caN/AI maintenance - Lack of drain/Age system facilities	- Repair/improve irrigation caN/AI - Re-install head gate, check gate and turn-out gates - Periodic desiltation - Repair of leaking siphon - Restore addition/Al termin/AI facilities - Implementation of monthly caN/AI maintenance - Addition/Al drain/Age system/facilities - Construction of protection wall and river maintenance - Budget to periodic creeks and river maintenance - Negotiation to landowner for addition/Al drain/Age facilities						
202			Tago	3,593.4	0.08	0.02	0.05	3.47	-3.45	3,716	2,166	2,375	Paddy	Paddy	58.3	63.9	2.79	1.23	0.68		150	820	701	969	3.70	4.12	- River bed siltation including conveyance caN/AIs and structures FIN/Ancestral constraint for repair/rehabilitation of existing facilities	- Preserve and protect the watershed area and coordin/Ate with other line agencies for a reforestation program. - On time release of funds for repair/rehabilitation of existing facilities						
203			AndaN/An	1,764.9	18.22	26.79	22.50	1.42	25.37	3,500	3,084	3,107	Paddy	Paddy	88.4	88.8	1.50	0.48	-0.08		751	450	1,975	2,346	3.41	3.85	- Insufficient of irrigation during dry season due to scarce of water supply - Presence of leaks at structures and seepage of caN/AIs - Silted and N/Arrow embankment of	- Develop the watershed area of Andaman river, concrete lining of irrigation channels, raising of embankment, caN/AI desilting and repair of destroyed caN/AIs and structures						
204			Gibong	2,697.1	11.84	7.13	9.49	N/A	#VALUE!	2,841	1,844	1,858	Paddy	Paddy	64.9	65.4	N/A	#VALUE!	#VALUE!				723	N/A	3.40	3.34								
205			Simulao	3,214.7	6.18	4.78	5.49	4.46	0.32	2,540	2,190	2,149	Paddy	Paddy	86.2	84.6	2.19	1.01	2.27				1,400	2,289	3.05	3.09								

Table A2-4 (1) Tabulation of Inventory Survey Results for the Sector of Irrigation and Drainage Facilities (General Information and Dimension of Diversion Dam)

NO.	Region NIS NO.	Region	RC (NISO)	NIS	Diversion Dam Name	Service Area (ha)	Intake Discharge (m ³ /sec)	Flood Discharge (m ³ /sec)	Diversion Dam		Spillway (weir, gate)			Sluice Way (gate)			Intake (gate)			Protection Dike		Protection Side-wall				
									Width (m)	Height (m)	Width (m)	Height (m)	Length (m)	Width (m)	Height (m)	No. (set)	Width (m)	Height (m)	No. (set)	Length (m)	Height (m)	Length (m)	Height (m)			
1	1	CAR	Upper Chico	Upper Chico	Chico	17,551	34.36	46,680	757.54	7.00	747.54	5.50	25.30	3.80	5.00	2	6.00	5.00	2	38.00	N/A	77.60	N/A			
							Talaca Catch	8,457	16.90	557	48.00	7.00	40.00	7.00	20.00	3.00	2.50	2	2.80	2.80	6	100.00	15.00	20.00	15.00	
																						80.00	15.00	80.00	15.00	
2	2	Region I	West Apayao Abulog IS	West Apayao Abulog	Hapid																					
3	3																									
4	1																									
5	2	Ilocos Norte	Bonga PIS-1	Bonga # 1	Bonga PIS-1																					
6	3																									
7	4																									
8	5																									
9	6																									
10	7																									
11	8																									
12	9																									
13	10																									
14	11																									
15	12																									
16	13																									
17	14																									
18	15				Ilocos Sur	Sta. Lucia-Candon	Sta. Lucia-Candon	Sta. Lucia-Candon	1,555	4.00	90	N/A	N/A	N/A	N/A	N/A	N/A	2	1.90	1.70	2	N/A	N/A	N/A	N/A	
19	16																									
20	17																									
21	18	Amburayan	Amburayan	Amburayan	Amburayan	3,289	7.49	N/A	4.80	1.10	-	-	-	1.00	1.10	3	1.20	1.60	6	-	-	-	-			
22	19																									
23	20																									
24	21	Masalip	Masalip	Masalip	Masalip	1,620	3.54	2,901	237.74	4.40	232.48	4.40	31.90	4.16	4.10	1	1.80	1.80	1	-	-	-	-			
25	22																									
26	23																									
27	24	San Fabian-Dumuloc	San Fabian	Dumuloc	San Fabian	2,026	17.00	N/A	413.00	3.50	-	-	-	6.00	2.50	1	0.90	1.00	3	180.00	4.50	15.00	20.00			
28	25																									
29	26																									
30	1	Region II	Baua-Visitacion	Visitacion	Agno	9,467	30.00	N/A	N/A	N/A	N/A	N/A	N/A	4.00	4.00	2	2.00	2.00	6	N/A	N/A	N/A	N/A			
31	2																									
32	3																									
33	4	Magapit	Magapit PIS	PIS	Banurbur Creek	1,103	2.12	1,300	51.85	3.50	49.40	2.50	19.50	1.85	2.50	1	1.50	1.60	1	-	-	25.00	12.00			
34	5																									
35	6																									
36	7	Apayao-Abulog-Pamplona	Apayao-Abulog	Dacao	Apayao-Abulog	8,175	27.38	N/A	352.00	1.80	302.00	1.80	20.00	4.00	3.00	10	2.50	1.50	5	N/A	N/A	-	-			
37	8																									
38	9																									
39	10	Pamplona	Pamplona	Swan	Pamplona	4,564	14.28	N/A	292.00	4.12	282.50	2.80	26.00	N/A	N/A	2	N/A	N/A	4	16.00	10.50	16.00	10.50			
40	11																									
41	12																									

Diversion Dam

NO.	Region NIS NO.	Region	RC (NISO)	NIS	Diversion Dam Name	Sevice Area (ha)	Intake Discharge (m³/sec)	Flood Discharge (m³/sec)	Diversion Dam			Spillway (weir, gate)			Sluice Way (gate)			Intake (gate)			Protection Dike		Protection Side-wall			
									Width (m)	Height (m)	Length (m)	Width (m)	Height (m)	Length (m)	Width (m)	Height (m)	No. (set)	Width (m)	Height (m)	No. (set)	Length (m)	Height (m)	Length (m)	Height (m)		
116	1	Region V	Daet Talisay-Malogdon	Daet Talisay	Bibrao Int.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
117	2			Malogdon	Malogdon	471	2.90	1,200	42.50	2.20	19.50	2.20	19.10	-	-	-	-	-	-	-	-	37.60	6.20	-	-	
118	3		Libmanan Cabusao	Libmanan Cabusao PIS																						
119	4		Tigman-Hinagyanan-Inarihan	Tigman-Hinagyanan	Timan	2,254	3.30	N/A	49.00	3.50	40.00	3.50	N/A	4.20	2.20	1	2.40	N/A	1	N/A	N/A	-	-	-	-	
					Hinagyanan	2,254	4.80	N/A	19.00	1.70	14.10	1.70	N/A	4.80	1.70	1	-	-	-	-	-	-	N/A	N/A	-	-
120	5		Tigman-Hinagyanan-Inarihan	Inarihan	Inarihan	1,288	2.08	N/A	89.00	1.50	34.40	1.50	N/A	2.00	1.50	1	2.00	N/A	1	N/A	N/A	-	-	-	-	
121	6		Cagaycay	Cagaycay	Cagaycay	1,577	2.20	N/A	N/A	N/A	N/A	N/A	N/A	-	-	-	-	-	-	-	-	N/A	N/A	-	-	
122	7		Rinconada Integrated	Barit	Barit																					
123	8				Rida																					
124	9				Buhi-Lalo																					
125	10		Mahaba-Nasisi-Ogsong-Hibiga	Mahaba	Mahaba	567	0.93	24,800	28.80	1.30	20.80	1.30	20.00	1.20	1.30	4	1.00	1.00	1	N/A	N/A	N/A	N/A	-	-	
126	11				Nasisi	780	2.00	810	73.00	2.00	70.00	2.00	40.00	2.00	2.00	1	1.50	2.00	2	N/A	N/A	N/A	N/A	-	-	
127	12				Ogsong	270	0.81	40,100	24.50	2.49	22.40	2.49	14.50	-	-	-	-	-	-	-	-	-	15.00	5.80	-	-
128	13				Hibiga	417	1.26	N/D	25.00	1.20	22.50	1.20	15.20	-	-	-	-	-	-	-	-	-	15.00	5.80	-	-
129	14		Pili-Bulan-San Francisco	San Francisco	San Francisco	590	0.86	N/A	N/A	N/A	N/A	N/A	N/A	-	-	-	-	-	-	-	-	-	-	-		
130	15	San Ramon			360	0.84	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	-	-	-	-	-	-	-	-	-	-		
131	1	Region VI	Aklan Panakuyan	Aklan	East Intake	2,266	1.50	N/A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
132	2				Panakuyan	Panakuyan	West Intake	1,596	2.85	N/A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
							Dunga	80	0.28	260	12.50	3.78	9.00	3.78	10.00	-	-	-	-	-	-	-	-	-	-	-
133	3		Sibalom-San Jose	Sibalom-San Jose	Tipuluan	3,969	5.90	4,690	225.50	5.03	5.11	1.26	93.00	3.30	2.62	2	1.10	1.26	5	180.00	13.50	30.00	18.00			
134	4		Mambusao	Mambusao	Mambusao	1,420	2.00	1,368	80.50	6.99	76.00	6.80	34.00	3.50	3.50	1	1.50	1.50	1	15.00	5.00	65.00	11.00			
135	5		Jaluar-Suague	Jaluar- Proper	Jaluar	8,825	31.31	3,540	194.00	7.82	5.85	3.50	13	4.25	2.00	4	2.60	1.20	10	74.00	8.76	-	-			
136	6				Jaluar- Extension	2,144	3.30	3,540	180.00	7.82	5.85	3.50	13	2.10	2.80	2	2.10	1.35	2	74.00	8.76	-	-			
137	7				Suague	2,453	6.43	3,830	204.50	3.88	199.00	2.44	16.00	-	-	-	-	-	-	-	-	N/A	N/A	-	-	
138	8		Sibalom-Tigbuan	Sibalom-Tigbuan	Sibalom	2,019	2.54	2,290	140.00	2.00	128.00	2.00	15.00	3.14	2.20	3	2.08	1.08	3	24.80	5.55	-	-			
139	9		Aganan-Sta Barbara	Aganan	Aganan	4,467	8.25	830	81.50	8.36	76.90	5.81	52.00	-	-	-	-	-	-	-	-	135.70	5.50	-	-	
140	10	Sta. Barbara			3,062	7.77	N/A	69.00	2.00	62.50	2.00	77.00	4.30	2.00	1	2.00	1.30	6	30	8.50	-	-				
141	11	Region VI	Barotac Viejo	Barotac Viejo	177	4.30	590	49.00	2.20	46.00	1.90	14.00	-	-	-	-	-	-	-	-	100.00	6.20	-	-		
142	12			Bago	12,700	23.00	6,020	150.00	3.00	80.00	3.00	30.00	-	-	-	-	-	-	-	-	30.00	11.00	-	-		
143	13			Pangiplan	1,576	1.64	690	30.00	3.30	7.00	2.50	15.50	3.05	1.90	2	1.20	1.20	2	60.00	2.50	-	-	N/D	2.50		
144	1	Region VII	Bohol	Malinao	4,973	4.40	N/A	846.00	14.50	30.00	5.00	144.00	-	-	-	-	-	-	-	-	-	-	-			
145	2			Capayas																						
146	1	Region VIII	Mainit-Pongso	Mainit	2,185	4.37	890	84.80	2.00	80.00	2.00	N/A	1.80	2.20	2	1.20	0.80	4	N/A	N/A	-	-	-	-		
147	2			Pongso	800	1.60	N/A	N/A	0.90	N/A	0.90	18.00	2.00	4.00	1	3.00	1.00	3	N/A	N/A	-	-	-	-		

Diversion Dam

NO.	Region NIS NO.	Region	RC (NISO)	NIS	Diversion Dam Name	Service Area (ha)	Intake Discharge (m ³ /sec)	Flood Discharge (m ³ /sec)	Diversion Dam		Spillway (weir, gate)			Sluice Way (gate)			Intake (gate)			Protection Dike		Protection Side-wall		
									Width (m)	Height (m)	Width (m)	Height (m)	Length (m)	Width (m)	Height (m)	No. (set)	Width (m)	Height (m)	No. (set)	Length (m)	Height (m)	Length (m)	Height (m)	
200	1	Region XIII	Cabadbaran-Taguibo	Cabadbaran-Taguibo	Cabadbaran	3,000	62.52	630	134.00	1.50	35.00	1.50	32.00	4.60	2.90	2	1.85	1.45	4	135.70	5.50	-	-	
201	2		Cantillan	Cantillan	Cantillan Int.	1,285	3.50	48	-	-	-	-	-	-	-	-	-	-	1	-	-	-	141.50	6.25
202	3		Tago	Tago	Sagbayan	3,716	10.91	6,940	153.70	5.00	129.50	5.00	22.00	4.00	3.25	3	1.85	1.85	4	-	-	-	61.06	10.40
203	4		Andanan	Andanan	Andanan	5,000	7.92	630	96.00	1.80	85.00	1.80	18.50	3.20	1.40	2	1.90	1.30	4	10.00	6.83	-	-	
204	5		Gibong	Gibong	Gibong	3,569	5.19	1,060	61.20	8.20	65.20	6.70	25.00	3.50	3.00	6	1.20	1.60	4	22.80	12.90	22.80	12.90	
205	6		Simulao	Simulao	Simulao	2,946	6.16	1,980	192.10	4.00	148.10	4.00	24.50	-	-	-	-	-	-	17.12	5.70	-	-	
Mean						2,784	6.60	2,366	98.43	4.57	67.26	2.90	26.92	3.33	2.66	2	1.84	1.66	3	164.31	5.46	62.55	6.49	
Max.						29,846	62.52	6,940	757.54	14.70	747.54	14.70	100.00	15.00	6.20	16	6.00	5.74	12	3,000.00	15.00	1,181.20	18.00	
Min.						42	0.28	4	1.50	0.90	0.80	0.90	1.00	1.00	1.00	1	0.50	0.60	1	2.14	1.00	2.14	1.60	

Table A2-4 (3) Tabulation of Inventory Survey for the Sector of Irrigation and Drainage (General Information and Dimension of Canal)

NO.	Region NIS NO.	Region	RC (NISO)	NIS	Water Source Name	Main Canal					Lateral - A or D and Sub-lateral - A or D					Lateral - B or E and Sub-lateral - B or E					Lateral - C or F and Sub-lateral - C or F												
						L.S.A. (ha)	Discharge (m ³ /s)	Length (km)	Width (m)	Height (m)	L.S.A. (ha)	Discharge (m ³ /s)	Length (km)	Width (m)	Height (m)	L.S.A. (ha)	Discharge (m ³ /s)	Length (km)	Width (m)	Height (m)	L.S.A. (ha)	Discharge (m ³ /s)	Length (km)	Width (m)	Height (m)								
1	1	CAR	Upper Chico	Upper Chico	Chico	17,551	34.36	108.27	7.00	3.75	825	2.46	22.20	1.50	1.05	1,652	5.17	27.89	2.40	1.55	991	2.35	19.00	2.00	2.60								
					Talaca Catch	8,457	16.90	25.46	5.50	3.30	1,891	3.00	19.22	2.90	1.60	522	0.34	7.78	1.80	1.10	274	0.50	4.34	1.30	0.90								
2	2		Hapid	Hapid																													
3	3		West Apayao Abulog IS	West Apayao Abulog																													
4	1	Region I	Bonga PIS-1	Bonga Pump # 1	Bonga Pump # 1	170	N/A	3.00	N/A	N/A	N/A	0.42	N/A	N/A	N/A	N/A	1.00	N/A	N/A	N/A	N/A	1.00	N/A	N/A									
5	2					Bonga PIS-2	Bonga Pump # 2	545	N/A	9.50	1.15	2.18	25	N/A	3.17	0.95	1.27	261	N/A	7.06	1.25	0.85	15	N/A	1.50	0.50	0.75						
6	3					Bonga PIS-3	Bonga Pump # 3	157	N/A	4.70	N/A	N/A	7	N/A	1.64	N/A	N/A	22	N/A	1.05	N/A	N/A	N/A	N/A	N/A	N/A	N/A						
7	4					Laoag Vintar	Main Canal # 1	Main Canal # 1	Main Canal # 1	2,286	N/A	27.45	1.70	1.70	55	N/A	5.66	0.60	0.70	60	0.10	2.22	0.60	0.60	350	1.61	11.93	1.20	1.00				
										Main Canal # 2	Main Canal # 2	2,377	N/A	31.30	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
										Main Canal # 3	Main Canal # 3	1,019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
8	5					Ilocos Norte	Nmc Pasuquin	N/A	N/A	723	1.52	34.00	2.50	2.85	28	0.30	2.00	0.90	1.20	-	-	-	-	-	-	-	-	-					
9	6									Dingras	Dingras 1	Dingras 1	Dingras 1	1,016	2.34	14.46	4.48	4.60	63	0.16	4.76	0.80	0.95	257	0.54	4.50	1.10	1.30	80	0.13	1.04	1.00	1.10
10	7									Bolo	Bolo	Bolo	Bolo	425	1.20	16.60	2.50	3.00	35	0.60	2.22	N/A	N/A	-	-	-	-	-	-	-	-	-	
11	8													Cura	Cura	550	N/A	13.13	N/A	N/A	197	N/A	9.80	N/A	N/A	55	N/A	3.74	N/A	N/A	57	N/A	5.50
12	9									Nueva Era	Nueva Era	Nueva Era	Nueva Era	680	1.58	4.49	1.20	1.00	294	N/A	5.04	N/A	N/A	190	N/A	2.35	0.80	0.70	-	-	-	-	
13	10													Madongan Area	Right Main Canal	Right Main Canal	Right Main Canal	1,448	3.43	6.36	1.35	1.25	471	N/A	6.78	0.80	0.70	311	N/A	3.43	1.10	1.10	45
		Left main Canal	Left main Canal	1,485	44.75													9.06	1.35	1.50	169	N/A	3.89	1.00	0.80	434	N/A	12.03	1.00	1.10	260	N/A	9.00
14	11	Solsona Area	Right Main Canal	Right Main Canal	Right Main Canal					262	2.29	4.27	1.10	0.90	101	N/A	0.60	0.90	0.80	-	-	-	-	-	-	-	-	-					
										Left main Canal	Left main Canal	1,078	3.15	6.00	1.35	1.40	567	N/A	12.12	0.90	0.80	126	N/A	2.49	1.00	0.80	170	N/A	2.17	1.00	0.90		
15	12	Labugaon Area	Labugaon	Labugaon	Labugaon					1,961	4.70	12.98	1.15	1.30	196	N/A	3.60	1.05	1.00	128	N/A	2.80	0.75	0.90	75	N/A	3.30	0.90	0.70				
16	13	Papa Area	Main Canal # 1	Main Canal # 1	Main Canal # 1	955	2.87	6.92	N/A	N/A	71	N/A	3.57	N/A	N/A	182	N/A	2.46	N/A	N/A	699	N/A	9.70	N/A	N/A								
						Main Canal # 2	Main Canal # 2	1,382	N/A	5.89	N/A	N/A	263	N/A	3.20	N/A	N/A	531	N/A	14.86	N/A	N/A	230	N/A	2.82	N/A	N/A						
17	14	Ilocos Sur	Sta. Maria-Burgos	Sta. Maria-Burgos	Sta. Maria-Burgos	914	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A									
18	15					Sta. Lucia-Candon	Sta. Lucia-Candon	Sta. Lucia-Candon	Sta. Lucia-Candon	1,555	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A						
										Tagudin	Tagudin	1,313	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
19	16	Amburayan	Amburayan	Amburayan	Amburayan	3,800	7.39	20.42	4.50	2.50	40	0.16	1.47	0.90	0.80	182	0.34	3.14	0.80	0.80	435	0.97	8.19	1.75	0.75								
20	17																																
21	18	Ambayao-Dipalo	Ambayao	Ambayao Int.	Ambayao Int.	2,043	7.50	15.99	2.40	1.75	812	1.61	16.63	1.10	1.05	56	2.50	5.38	1.35	0.95	230	2.42	11.00	1.50	1.00								
22	19					Ambayao-Extension	Ambayao-Extension	500	2.49	30.00	1.50	1.05	51	0.22	4.00	0.55	0.65	-	-	-	-	-	-	-	-	-	-						
23	20	Ambayao-Dipalo	Dipalo	Dipalo	Dipalo	2,002	2.25	10.77	1.05	0.85	263	0.53	8.34	0.80	0.65	480	1.19	13.44	1.00	0.90	154	0.22	3.00	0.70	0.55								
24	21	Masalip	Masalip	M.C. Ago	M.C. Ago	1,548	2.41	9.58	1.75	2.90	410	0.71	17.20	1.30	1.10	291	0.72	7.54	1.15	1.15	100	0.20	3.08	0.75	0.90								
						M.C. Masalip	M.C. Masalip	171	3.54	2.08	4.00	5.00	121	0.63	7.54	1.30	1.10	-	-	-	-	-	-	-	-	-	-						
						M.C. Gumachao	M.C. Gumachao	194	0.46	2.60	0.90	1.30	104	0.28	3.04	0.85	1.25	-	-	-	-	-	-	-	-	-	-						
25	22	Lower Agno	Lower Agno	Lower Agno	Lower Agno	4,134	18.00	30.00	3.60	3.00	695	2.50	21.12	1.80	1.15	1,735	6.29	61.07	2.35	1.40	70	0.30	3.10	0.95	0.75								
26	23	San Fabian-Dumuloc	San Fabian	San Fabian	San Fabian	2,026	6.50	15.50	1.60	1.20	660	1.98	24.85	1.05	0.90	684	2.05	7.26	1.00	0.85	140	0.42	5.04	0.80	0.65								
27	24					Dumuloc	Dumuloc	1,232	3.60	9.79	1.35	1.00	570	1.03	18.34	1.00	0.85	256	0.46	4.44	0.75	0.65	406	0.74	8.25	1.00	0.45						

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NO.	Region NIS NO.	Region	RC (NISO)	NIS	Water Source Name	Main Canal					Lateral - A or D and Sub-lateral - A or D					Lateral - B or E and Sub-lateral - B or E					Lateral - C or F and Sub-lateral - C or F									
						L.S.A. (ha)	Discharge (m ³ /s)	Length (km)	Width (m)	Height (m)	L.S.A. (ha)	Discharge (m ³ /s)	Length (km)	Width (m)	Height (m)	L.S.A. (ha)	Discharge (m ³ /s)	Length (km)	Width (m)	Height (m)	L.S.A. (ha)	Discharge (m ³ /s)	Length (km)	Width (m)	Height (m)					
134	4	Region VI	Mambusao	Mambusao	Mambusao	1,420	2.96	14.60	2.10	1.05	175	0.35	4.32	1.00	0.75	206	0.75	12.86	1.30	0.85	121	0.25	3.00	0.90	0.75					
135	5		Jahaur-Suague	Jahaur-Propor	Jahaur	888	13.50	24.60	7.50	1.55	122	0.48	6.07	1.40	0.85	216	0.48	7.22	0.90	0.80	491	0.93	8.00	1.80	1.00					
136	6		Jahaur-Suague	Jahaur- Extension	Jahaur	2,616	12.30	28.30	3.20	1.75	432	0.48	4.75	1.55	0.75	125	0.21	1.58	0.80	0.65	247	0.62	4.00	1.00	0.85					
137	7		Region VI	Sibalom-Tigbuan	Sibalom-Tigbuan	Sibalom	2,019	2.40	15.61	2.00	1.35	521	0.95	15.49	1.55	1.15	150	0.36	2.70	0.60	0.60	253	0.45	3.64	0.95	0.08				
138	8																													
139	9			Aganan-Sta Barbara	Aganan	Aganan	4,467	8.25	11.85	3.25	3.50	1,379	2.55	18.31	N.D.	N.D.	2,488	4.60	21.13	2.25	1.75	147	0.27	1.17	N.D.	N.D.				
140	10																													
141	11			Barotac Viejo	Sta. Barbara	Sta. Barbara	3,062	7.77	4.93	N/A	N/A	883	2.94	24.03	2.50	1.50	439	0.70	4.10	1.75	0.75	275	N/A	18.04	N/A	N/A				
142	12			Bago	Barotac Viejo	Barotac Viejo	684	4.30	16.40	2.25	1.30	367	1.19	15.63	1.40	0.90	230	0.67	7.78	1.30	0.80	133	0.40	3.79	1.00	0.75				
142	12	Bago		Bago	Bago	12,700	22.00	30.31	4.40	2.70	338	0.50	4.23	1.20	0.90	596	1.17	7.80	1.80	0.75	3,097	7.11	42.71	2.25	1.35					
143	13	Pangiplan	Pangiplan	Pangiplan	1,840	3.69	4.50	3.10	2.05	158	0.36	2.53	0.65	1.00	111	0.17	1.80	0.85	1.00	170	0.26	2.00	0.80	1.00						
144	1	Region VII	Bohol	Bohol	Malinao	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A						
145	2																													
146	1	Region VII	Maintit-Pongso	Maintit	Maintit	1,079	2.20	1.97	1.50	1.20	200	0.43	5.10	1.40	1.20	222	0.48	6.23	1.00	1.20	8	1.58	4.13	2.00	2.00					
147	2																													
148	3		Bao	Pongso	Pongso	800	1.65	6.89	1.90	1.20	416	0.75	11.96	1.40	1.00	80	0.14	4.84	0.60	0.80	186	0.33	4.00	1.10	0.80					
149	4		Bao	Bao	Bao	2,185	3.56	1.02	4.00	1.25	306	3.46	8.64	2.50	1.14	41	0.72	1.48	1.50	0.75	10	0.05	1.19	0.90	0.65					
150	5	Region VII	Binahan North	Tingib	Tingib	1,801	N/A	10.01	N/A	N/A	316	N/A	13.42	N/A	N/A	599	N/A	17.51	N/A	N/A	402	N/A	14.00	N/A	N/A					
151	6		Binahan South	Dapdap	Dapdap	298	N/A	1.84	N/A	N/A	101	N/A	3.03	N/A	N/A	57	N/A	1.83	N/A	N/A	140	N/A	3.51	N/A	N/A					
151	6		Lower Binahaan	Binahan South	Binahan South	1,410	5.25	5.48	4.25	3.00	1	1.71	20.64	1.10	1.60	295	0.29	1.98	0.70	1.00	-	-	-	-	-					
152	7		Tibak	Lower Binahaan	Lower Binahaan	1,284	1.81	10.15	2.00	1.40	390	0.90	8.98	0.90	1.10	165	0.14	5.30	0.90	0.70	200	0.53	5.85	1.10	0.85					
153	8		Region VIII	Daguitan	Daguitan	Daguitan	850	4.50	13.28	1.30	1.95	92	0.17	2.98	0.60	1.10	93	0.13	16.06	0.80	1.20	42	0.07	4.46	0.40	0.70				
154	9			Daguitan-Gumarona	Gumarona	Gumarona	646	3.70	5.40	0.80	1.20	187	0.27	5.79	0.80	1.20	180	0.26	5.78	0.60	1.05	171	0.24	6.83	1.15	1.95				
155	10	Balire-Ibawon-Gibuga		Balire North	Balire North	300	0.60	5.68	0.90	0.80	72	0.13	6.26	0.60	0.55	-	-	-	-	-	-	-	-	-	-	-				
156	11																													
157	12																													
158	13																													
159	14	Bito		Ibawon	Ibawon	281	0.55	4.06	0.85	0.70	102	0.20	2.25	0.75	0.60	57	0.11	2.80	0.50	0.55	23	0.05	2.00	0.40	0.50					
160	15	Hindang-Hilongos-Das-Ay		Gibuya	Gibuya	738	1.70	5.08	1.80	1.30	251	0.54	6.28	0.90	0.70	120	0.26	3.40	0.80	0.60	150	0.33	5.00	0.80	0.70					
161	16	Das-Ay	Das-Ay	Das-Ay	386	0.31	3.74	2.50	1.15	19	0.03	1.30	0.60	0.75	101	0.15	0.70	0.70	0.60	36	0.05	1.23	0.80	0.55						
162	1	Sibuguey Valley	Sibuguey Valley	Sibuguey Valley	3,134	3.75	2.99	2.60	1.55	73	0.59	2.1																		

NO.	Region NIS NO.	Region	RC (NISO)	NIS	Water Source Name	Main Canal					Lateral - A or D and Sub-lateral - A or D					Lateral - B or E and Sub-lateral - B or E					Lateral - C or F and Sub-lateral - C or F						
						I.S.A. (ha)	Discharge (m³/s)	Length (km)	Width (m)	Height (m)	I.S.A. (ha)	Discharge (m³/s)	Length (km)	Width (m)	Height (m)	I.S.A. (ha)	Discharge (m³/s)	Length (km)	Width (m)	Height (m)	I.S.A. (ha)	Discharge (m³/s)	Length (km)	Width (m)	Height (m)		
185	4	Region XII	Libungan	Libungan	Libungan	9,168	15.60	28.30	3.30	1.60	2,942	5.90	51.08	2.40	1.70	469	0.73	7.15	1.05	0.60	1,561	1.75	25.77	1.35	1.05		
186	5		Kabulnan	Kabulnan	Kabulnan																						
187	6					Kabacan-Pagalungan	Pagalungan	Pagalungan	4,423	8.50	23.64	2.40	1.55	951	1.32	25.81	1.55	1.00	559	1.13	11.95	1.15	0.80	971	1.60	15.51	1.05
188	7																										
189	8		Miang-Malasila	Miang	Ugpay	2,125	2.45	12.81	2.50	4.20	40	0.71	5.12	1.30	1.00	109	0.40	1.93	0.90	0.90	69	0.43	2.02	0.80	0.80		
190	9																										
191	10		Lambayong-Dumagul	Lambayong	Lambayong	3,177	N/A	13.78	N/A	N/A	568	N/A	13.56	N/A	N/A	157	N/A	2.78	N/A	N/A	92	N/A	0.93	N/A	N/A		
192	11																										
193	12		Allah-Banga-Marbel	Allah-1	Surallah	11,355	16.96	12.09	10.20	1.30	833	5.63	15.97	1.85	1.00	218	0.33	2.50	1.10	0.80	297	0.42	3.18	1.10	0.70		
194	13		Allah-Banga-Marbel	Allah-2	Sto. Nifio	1,762	3.60	1.13	3.50	1.20	989	1.96	18.65	1.05	0.85	145	0.22	1.93	0.55	0.55	366	3.33	8.95	2.35	1.20		
195	14																										
196	15																										
197	16																										
198	17		Siluay-Buayan	Allah-1	Marbel-1	4,751	17.89	22.62	2.90	1.80	1,563	5.18	31.53	1.65	1.25	603	1.67	8.08	1.05	1.10	737	1.32	10.35	0.95	1.05		
199	18	Cabadbaran-Taguibo	Allah-2	Marbel-2	7,296	30.22	21.22	2.90	2.15	2,361	8	39.38	1.85	1.35	2,024	7	34.62	1.60	0.74	825	2	12.16	0.95	0.95			
200	1	Cabadbaran-Taguibo	Banga	Banga	2,554	6.72	16.65	1.15	1.40	54	0.20	2.80	0.80	0.80	76	0.50	5.67	1.05	0.90	57	0.20	2.66	1.15	0.80			
201	2	Cantillan	Marbel-1	Marbel-1	1,856	5.44	22.30	0.90	2.22	90	0.20	1.94	0.70	0.90	160	0.40	2.00	1.50	1.20	61	0.20	2.00	0.90	1.26			
202	3	Tago	Marbel-2	Marbel-2	1,611	5.40	10.40	1.50	2.20	320	0.91	8.33	1.50	2.61	85	0.20	3.48	0.80	1.70	336	1.08	6.77	1.15	1.10			
203	4	Andanan	Siluay	Siluay	740	0.26	11.49	1.20	2.50	53	0.08	1.55	0.50	0.90	59	0.09	1.90	0.80	0.90	6	0.01	1.44	0.60	0.70			
204	5	Gibong	Buayan	Buayan	680	3.16	12.18	1.20	1.10	294	1.61	19.75	0.70	1.00	16	1.47	3.35	0.70	0.70	11	0.02	0.44	N/A	N/A			
205	6	Simulao	Cabadbaran-Taguibo	Cabadbaran	3,000	6.97	13.10	2.30	1.70	447	N/D	12.52	1.75	1.00	218	0.44	4.60	1.40	1.75	160	0.34	1.96	0.95	1.60			
201	2	Cantillan	Tago	M. C. Left	1,825	3.50	9.86	2.80	1.45	717	1.26	22.51	2.80	0.90	374	1.14	16.01	3.00	1.00	209	0.41	10.10	1.95	2.30			
202	3	Tago	M. C. Right	M. C. Right	1,550	5.68	28.70	2.70	1.60	71	0.23	1.89	N/A	N/A	119	0.39	2.82	1.00	0.85	97	0.42	2.64	1.00	0.85			
203	4	Andanan	Gibong	Gibong	2,169	19.46	38.23	8.05	1.95	90	0.73	2.00	1.40	0.90	379	1.80	0.30	0.80	0.75	66	0.80	5.06	1.15	0.95			
204	5	Gibong	Simulao	Simulao	5,000	7.92	16.71	3.70	1.45	185	0.54	4.48	1.25	0.85	3,018	4.78	37.60	2.45	1.10	619	0.98	5.30	1.40	0.95			
205	6	Simulao	Simulao	Simulao	2,841	5.12	20.05	N/A	N/A	51	0.04	1.17	N/A	N/A	342	0.82	4.77	N/A	N/A	98	N/A	2.00	N/A	N/A			
205	6	Simulao	Simulao	Simulao	2,540	6.16	8.00	3.50	2.20	760	1.33	14.43	1.40	1.20	161	0.31	1.52	0.90	0.80	222	0.48	2.88	0.80	0.75			
Mean																											
Max.																											
Min.																											

Table A2-5 (1) Tabulation of Present Conditions of Functionality of Irrigation and Drainage Facilities (Diversion Dam) (unit: %)

NO.	Region	NIS	Diversion Dam Name	Weir			Spill: Gate & Operating Device			DS Apron		Riverbed Protection				Sluice Way			Sluice Pier			Spill: Gate & Operat. Device			Protection Dike			Protection Side-wall			Intake			Intake: Gate & Operat. Device			Mean	Max.	Min.
				Damaged	Damaged		Rust	Damaged	Leak	Damaged	Scoured	Damaged	Scoured	Damaged	Leak	Sediment	Damaged	Leak	Damaged	Rust	Damaged	Leak	Damaged	Scoured	Leak	Washed	Scoured	Damaged	Damaged	Leak	Sediment	Rust	Damaged	Leak					
1	CAR	Upper Chico	Chico	58	-	-	-	-	58	50	80	50	50	80	50	33	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	55	80	33	
			Talaca Catch	58	-	-	-	-	58	50	60	50	60	80	50	N/A	80	80	80	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
		Hapid																																					
2		Hapid																																					
3		West Apayao Abulog IS	West Apayao Abulog																																				
4		Bonga PIS-1	Bonga Pump # 1																																#DIV/0!	#DIV/0!	0		
5		Bonga PIS-2	Bonga Pump # 2																																#DIV/0!	#DIV/0!	0		
6		Bonga PIS-3	Bonga Pump # 3																																#DIV/0!	#DIV/0!	0		
7		Laog Vintar	Vintar	50	-	-	-	-	78	80	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	80	0
8		Nmc Pasuquin	N/A	N/A	-	-	-	-	N/A	N/A	N/A	N/A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	#DIV/0!	#DIV/0!	0	
9		Dingras	Dingras Int.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	60	80	50	
10		Bolo	N/A	0	-	-	-	-	0	0	50	0	50	50	50	0	0	0	50	0	0	80	80	40	50	50	50	50	50	50	50	50	50	50	50	33	80	0	
11		Cura	Cura Int.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	73	80	50	
12		Nueva Era	Nueva Era	0	-	-	-	-	0	0	0	0	0	0	17	80	0	0	-	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	80	0
13		Madongan Area	Madongan	65	-	-	-	-	65	80	27	80	70	80	50	60	50	80	-	-	-	-	80	80	33	50	80	0	50	50	60	80	0	50	50	60	80	0	
14		Solsona	Solsona Area	73	-	-	-	-	80	80	0	0	80	80	80	17	50	0	80	25	0	0	0	50	25	17	50	50	50	0	50	39	80	0	4	25	0		
15		Labugaon Area	Labugaon	58	-	-	-	-	58	80	0	80	70	80	80	17	50	50	80	-	-	-	-	0	0	0	17	50	80	50	0	50	45	80	0	25	0		
16		Papa Area	Papa	80	-	-	-	-	73	80	27	0	-	-	-	-	-	-	-	25	50	0	0	50	50	-	-	-	-	-	-	-	-	-	-	40	80	0	
17	Region I	Sta. Maria-Burgos	Sta. Maria-Burgos	25	-	-	-	-	50	50	33	0	50	50	50	50	50	50	50	50	50	50	-	-	-	0	0	0	80	50	50	40	80	0	50	50	50		
18		Sta. Lucia-Candon	Sta. Lucia-Candon	70	-	-	-	-	50	50	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	70	0
19		Tagudin	N/A	-	-	-	-	-	-	-	-	50	50	50	33	50	50	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	41	50	0	
20		Amburayan	Amburayan	-	-	-	-	-	0	0	0	0	17	0	0	17	50	80	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24	80	0	
21		Ambayaoan	Ambayaoan Int.	-	-	-	-	-	0	0	17	50	33	0	80	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25	80	0	
22		Ambayaoan-Extension																																					
23		Dipalo	Dipalo	13	-	-	-	-	38	50	33	50	17	0	80	17	50	50	50	25	50	0	50	50	50	17	0	50	50	50	0	50	35	80	0	53	80	0	
24		Masalip	Masalip	50	-	-	-	-	50	50	50	50	50	0	33	80	80	80	-	-	-	-	50	50	25	50	50	50	50	50	50	50	50	50	50	50	50	50	50
25		Lower Agno																																					
26		San Fabian	San Fabian	0	-	-	-	-	20	20	50	50	0	40	30	0	30	0	40	0	30	30	0	0	0	0	0	0	50	40	0	0	18	50	0	13	50	0	
27		Dumuloc	Dumuloc	0	-	-	-	-	30	80	80	80	0	40	30	0	50	50	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	35	80	0	
28		Agno	Agno	80	-	-	-	-	80	80	80	80	50	50	0	17	50	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	47	80	0	
29		Sinolacan	Sinolacan	50	-	-	-	-	50	50	50	50	50	50	50	50	50	50	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17	50	0	
30		Visitacion	Visitacion																																				
31		Baua	Baua	38	-	-	-	-	25	50	17	50	17	50	0	0	50	0	50	0	0	0	0	0	0	0	0	50	40	0	0	18	50	0	13	50	0		
32	Region II	Banurbur Creek	San Lorenzo	58	-	-	-	-	58	80	80	80	50	50	50	70	50	80	50	-	-	-	-	50	50	50	-	-	-	-	-	-	-	-	-	60	80	50	
			Nagsabaran	13	-	-	-	-	25	0	0	0	0	0	0	0	50	50	50	0	0	0	0	0	25	-	-	-	-	-	-	-	-	-	12	50	0		
33		Magapit PIS	PIS																																				

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Diversion Dam

NO.	Region	NIS	Diversion Dam Name	Weir		Spill: Gate & Operating Device					D/S Apron		Riverbed Protection			Sluice Way			Sluice Pier			Sluice: Gate & Operat. Device				Protection Dike			Protection Side-wall			Intake				Intake: Gate & Operat. Device			Mean	Max.	Min.								
				Damaged	Spill. Pier	Rust	Damaged	Leak	Damaged	Scoured	Damaged	Scoured	Damaged	Scoured	Damaged	Leak	Sediment	Damaged	Rust	Damaged	Leak	Damaged	Scoured	Leak	Washed	Scoured	Damaged	Damaged	Leak	Sediment	Rust	Damaged	Leak	#DIV/0!	#DIV/0!														
109	Region IV	Pula	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	#DIV/0!	#DIV/0!	0								
110		Bansud	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	#DIV/0!	#DIV/0!	0							
111		Lumintao	Intake	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	#DIV/0!	#DIV/0!	0						
112		Caguray	Caguray	0	-	-	-	-	-	0	0	0	0	27	0	0	0	0	0	0	0	0	0	-	-	-	-	17	0	0	50	0	0	50	0	0	50	0	0	50	0	0	4	50	0				
123		Cantingas		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	#DIV/0!	#DIV/0!	0					
114		Batang-Batang	Batang Int.	-	-	-	-	-	13	50	17	50	17	0	0	17	50	0	50	0	50	0	50	0	-	-	17	0	50	50	50	50	50	50	50	50	50	50	50	50	50	50	27	50	0				
115	Malatgao	Malatgao	13	-	-	-	-	13	0	17	50	17	0	50	17	50	0	50	0	50	0	50	0	0	0	25	17	0	50	50	0	50	50	50	50	50	50	50	50	50	22	50	0						
116	Daet Talisay	Bibrao Int.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	#DIV/0!	#DIV/0!	0					
117	Malogdon	Malogdon	0	-	-	-	-	13	0	50	50	-	-	-	-	-	-	-	-	-	50	0	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	27	50	0						
118	Libmanan Cabusao PIS																																								#DIV/0!	#DIV/0!	0						
119	Tigman-Hinagyanan	Timan	0	-	-	-	-	50	0	50	50	17	50	50	33	50	50	50	50	50	0	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	37	50	0					
		Hinagyanan	0	-	-	-	-	50	0	50	50	17	50	50	33	50	50	50	50	50	0	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	36	50	0				
120	Inarihan	Inarihan	38	-	-	-	-	50	50	50	50	17	50	50	33	50	50	50	50	50	0	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	43	50	0				
121	Cagaycay	Cagaycay	0	-	-	-	-	13	0	50	50	-	-	-	-	-	-	-	-	-	50	0	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	27	50	0				
122	Barit																																											#DIV/0!	#DIV/0!	0			
123	Rida																																											#DIV/0!	#DIV/0!	0			
124	Buhi-Lalo																																											#DIV/0!	#DIV/0!	0			
125	Mahaba	Mahaba	38	-	-	-	-	25	50	17	50	17	0	50	0	50	0	50	25	50	80	N/A	N/A	N/A	17	0	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	34	80	0				
126	Nasisi	Nasisi	25	-	-	-	-	25	0	50	50	17	0	0	33	50	50	50	25	50	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	32	50	0				
127	Ogsong	Ogsong	38	-	-	-	-	38	0	17	50	-	-	-	-	-	-	-	25	80	80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	41	80	0				
128	Hibiga	Hibiga	25	-	-	-	-	25	50	50	50	-	-	-	-	-	-	-	50	0	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	38	50	0				
129	San Francisco	San Francisco	13	-	-	-	-	13	50	50	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	35	50	13				
130	San Ramon	San Ramon	13	-	-	-	-	13	50	50	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	35	50	13				
131	Akian	East Intake	-	-	-	-	-	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	0				
		West Intake	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	80	80	80	-	-	-	-	50	50	80	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	63	80	50	
		Dumga	0	-	-	-	-	50	0	50	50	-	-	-	-	-	-	-	-	50	50	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	38	50	0		
132	Panakuyan	Panakuyan	0	-	-	-	-	38	50	33	50	17	0	0	17	50	50	50	25	0	0	0	0	0	0	0	0	0	80	50	0	50	50	50	50	50	50	50	50	50	50	50	50	50	27	80	0		
133	Sibalom-San Jose	Tipuluan	0	-	-	-	-	25	50	33	50	17	0	0	17	50	0	50	25	50	50	0	0	0	0	0	0	50	50	0	50	50	50	50	50	50	50	50	50	50	50	50	50	23	50	0			
134	Mambusao	Mambusao	13	-	-	-	-	13	50	17	50	33	50	0	0	50	50	50	25	50	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28	50	0		
135	Jalaur-Propser	Jalaur	25	13	50	50	50	50	80	80	80	17	50	0	17	50	0	50	25	50	50	-	-	-	-	17	50	0	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	40	80	0		
136	Jalaur- Extension	Jalaur	25	13	50	50	50	50	80	80	80	17	0	0	17	50	0	0	50	50	50	-	-	-	-	0	0	50	50	0	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	34	80	0
137	Suague	Suague	25	-	-	-	-	50	80	33	50	17	50	0	17	50	0	50	N/A	N/A	N/A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	35	80	0		
138	Sibalom-Tigbuan	Sibalom	0	-	-	-	-	13	80	50	80	17	0	0	0	50	0	0	50	80	50	-	-	-	-	17	50	0	0	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	30	80	0		
139	Aganan	Aganan	0	-	-	-	-	13	0	50	50	17	0	80	33	50	50	50	50	0	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	33	80	0		
140	Sta. Barbara	Sta. Barbara	13	-	-	-	-	50	80	80	80	17	50	0	0	0	0	50	50	50	50	-	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	80	0	
141	Barotac Viejo	Barotac Viejo	13	-	-	-	-	38	50	50	50	-	-	-	-	-	-	-	50	0	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	38	50	0		
																																														32	50	0	

Diversion Dam

NO.	Region	NIS	Diversion Dam Name	Spill: Gate & Operating Device					D/S Apron		Riveted Protection		Sluice Way			Sluice Pier			Spill: Gate & Operat. Device			Protection Dike			Protection Side-wall			Intake			Intake: Gate & Operat. Device			Mean	Max.	Min.
				Damaged	Spill. Pier	Rust	Damaged	Leak	Damaged	Scoured	Damaged	Scoured	Damaged	Leak	Sediment	Damaged	Rust	Damaged	Leak	Damaged	Scoured	Leak	Washed	Scoured	Damaged	Damaged	Leak	Sediment	Rust	Damaged	Leak					
192	Region XII	Tacurong (Dumaguil)	Dumaguil	0	-	-	-	-	0	0	0	0	-	-	-	-	-	-	-	50	0	0	-	-	-	-	-	-	-	-	-	-	-	6	50	0
193		Allah-1	Surallah	N/A	N/A	N/A	N/A	N/A	13	50	60	80	50	50	50	17	80	80	50	0	50	0	-	-	-	33	50	80	50	50	50	47	80	0		
194		Allah-2	Sto. Nifio	N/A	N/A	N/A	N/A	N/A	50	50	50	50	50	50	50	50	50	50	50	65	50	50	-	-	-	33	0	50	50	50	0	45	65	0		
195		Banga	Banga	0	-	-	-	-	13	0	17	0	17	0	50	17	0	0	0	0	0	0	0	0	0	0	0	50	50	0	0	9	50	0		
196		Marbel-1	Marbel-1	13	-	-	-	-	13	50	33	0	17	0	0	17	50	0	50	-	-	-	0	0	50	50	0	80	50	0	50	25	80	0		
197		Marbel-2	Marbel-2	13	-	-	-	-	13	0	33	0	80	80	0	17	50	80	80	-	-	-	0	0	50	0	0	80	80	80	35	80	0			
198		Siluyay	Siluyay	30	-	-	-	-	30	30	30	30	30	30	30	0	0	30	30	30	30	30	30	30	30	0	0	0	0	0	20	30	0			
199		Buayan	Tinagacan	30	-	-	-	-	30	70	30	30	-	-	-	-	-	-	-	30	30	30	0	30	30	-	-	-	-	-	31	70	0			
200		Region XIII	Cabadbaran-Taguibo	Cabadbaran	50	-	-	-	-	80	80	80	80	50	0	50	33	50	50	50	80	80	80	-	-	-	50	50	50	50	0	50	54	80	0	
201			Cantillan	Cantillan Int.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50	50	80	50
202	Tago		Sagbayan	0	-	-	-	-	0	0	0	0	0	0	50	0	0	0	50	-	-	-	0	0	0	0	0	0	50	0	0	50	10	50	0	
203	Andanan	Andanan	38	-	-	-	-	25	50	50	50	50	50	50	33	50	50	50	0	0	0	-	-	-	50	50	50	50	50	50	40	50	0			
204	Gibong	Gibong	38	-	-	-	-	50	0	0	0	0	0	0	33	50	50	80	0	0	0	0	0	0	0	0	0	50	0	0	15	80	0			
205	Simulao	Simulao	0	-	-	-	-	25	0	27	50	-	-	-	-	-	-	-	50	50	50	-	-	-	-	-	-	-	-	32	50	0				
												0	0	0	0	0	0	0	25	0	0	-	-	-	-	0	0	0	0	0	2	25	0			

Table A2-5 (2) Tabulation of Present Conditions of Functionality of Irrigation and Drainage Facilities (Pumping Station)

NO.	Region	NIS	Pumping Station Name	Intake Gate			Suction Sump				Pump				Discharge Sump				Slope Protection				Pump House		Mean	Max.	Min.
				Rust	Damaged	Leak	Damaged	Leak	Sediment	Scoured	Rust	Damaged	Leak	Function	Damaged	Leak	Sediment	Scoured	Damaged	Leak	Sediment	Scoured	Damaged	Leak			
1	CAR	Upper Chico	DIS																					#DIV/0!	0	0	
2		Hapid																									
3		West Apayao Abulog																									
4	Region I	Bonga PIS-1	Bonga Pump # 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	#DIV/0!	0	0	
5		Bonga PIS-2	Bonga Pump # 2	50	50	50	50	50	80	0	50	50	50	50	50	50	50	0	50	50	50	0	50	50	44	80	0
6		Bonga PIS-3	Bonga Pump # 3	50	50	50	50	50	50	0	50	50	50	50	50	50	50	0	33	50	50	0	50	50	42	50	0
7		Laoag Vintar	DIS																					#DIV/0!	0	0	
8		Nmc Pasuquin	DIS																					#DIV/0!	0	0	
9		Dingras	Intake																					#DIV/0!	0	0	
10		Bolo	DIS																					#DIV/0!	0	0	
11		Cura	Intake																					#DIV/0!	0	0	
12		Nueva Era	DIS																					#DIV/0!	0	0	
13		Madongan Area	DIS																					#DIV/0!	0	0	
14		Solsona Area	DIS																					#DIV/0!	0	0	
15		Labugaon Area	DIS																					#DIV/0!	0	0	
16		Papa Area	DIS																					#DIV/0!	0	0	
17		Sta. Maria-Burgos	DIS																					#DIV/0!	0	0	
18		Sta. Lucia-Candon	DIS																					#DIV/0!	0	0	
19		Tagudin	DIS																					#DIV/0!	0	0	
20		Amburayan																						#DIV/0!	0	0	
21		Ambayoan	Intake																					#DIV/0!	0	0	
22		Ambayoan-Extension																						#DIV/0!	0	0	
23		Dipalo	DIS																					#DIV/0!	0	0	
24		Masalip	DIS																					#DIV/0!	0	0	
25		Lower Agno	Intake																					#DIV/0!	0	0	
26		San Fabian	DIS																					#DIV/0!	0	0	
27		Dumuloc	DIS																					#DIV/0!	0	0	
28		Agno	DIS																					#DIV/0!	0	0	
29		Sinolacan	DIS																					#DIV/0!	0	0	
30		Visitacion																						#DIV/0!	0	0	
31		Baua	DIS																					#DIV/0!	0	0	
32		Banurbur Creek	DIS																					#DIV/0!	0	0	
33	Magapit PIS	Magapit Pump	-	-	-	0	0	50	0	0	0	0	80	0	0	50	N/A	0	0	0	0	17	50	15	80	0	
34	Apayao-Abulog	DIS																					#DIV/0!	0	0		
35	Pamplona																						#DIV/0!	0	0		
36	Dummun	Intake																					#DIV/0!	0	0		
37	Zinundungan	DIS																					#DIV/0!	0	0		
38	Baggao	DIS																					#DIV/0!	0	0		
39	Iguig-Alcala-Amulung PIS	Iguig	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	#DIV/0!	0	0		
40	Lower Chico	DIS																					#DIV/0!	0	0		
41	Solana PIS	Solana Pump	0	0	0	0	0	0	0	0	0	0	80	-	-	-	-	0	0	0	0	0	0	5	80	0	
42	Pinacanauan	Intake																					#DIV/0!	0	0		
43	San Pablo Cabagan	Dalena Dam																					#DIV/0!	0	0		
44	Tumauni																						#DIV/0!	0	0		
45	Mallig	DIS																					#DIV/0!	0	0		
46	Bagabag	DIS																					#DIV/0!	0	0		
47	MRIIS Distric I	DIS																					#DIV/0!	0	0		
48	MRIIS Distric II	DIS																					#DIV/0!	0	0		
49	MRIIS	MRIIS Distric III	Pump Sta.# 2	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	
		Pump Sta.# 3	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	
		Camaal	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	
		Cabaruan	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	
50		MRIIS Distric IV	Pump Sta. No.1	80	50	50	33	50	50	0	50	0	0	50	0	0	0	0	0	0	0	0	50	50	24	80	0
51	Region III	Nayom																					#DIV/0!	0	0		
52	Bayto																						#DIV/0!	0	0		
53	Camiling																						#DIV/0!	0	0		
54	Tarlac	DIS																					#DIV/0!	0	0		

Pumping Station

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NO.	Region	NIS	Pumping Station Name	Intake Gate				Suction Sump				Pump				Discharge Sump				Slope Protection				Pump House		Mean	Max.	Min.	
				Rust	Damaged	Leak		Damaged	Leak	Sediment	Scoured	Rust	Damaged	Leak	Function	Damaged	Leak	Sediment	Scoured	Damaged	Leak	Sediment	Scoured	Damaged	Leak				
108	Region IV	Mongpong	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	#DIV/0!	0	0		
109			Pula																							#DIV/0!	0	0	
110			Bansud																							#DIV/0!	0	0	
111			Lumintao	Intake																						#DIV/0!	0	0	
112			Caguray	DIS																						#DIV/0!	0	0	
113			Cantingas																							#DIV/0!	0	0	
114			Batang-Batang	Intake																						#DIV/0!	0	0	
115			Malatgao	DIS																						#DIV/0!	0	0	
116		Region V	Daet Talisay	DIS																						#DIV/0!	0	0	
117				Malogdon	DIS																						#DIV/0!	0	0
118				Libmanan Cabusao PIS																							#DIV/0!	0	0
119			Tigman-Hinagyanan	DIS																						#DIV/0!	0	0	
120			Inarihan	DIS																						#DIV/0!	0	0	
121			Cagaycay	DIS																						#DIV/0!	0	0	
122			Barit																							#DIV/0!	0	0	
123			Rida																							#DIV/0!	0	0	
124			Buhi-Lalo																							#DIV/0!	0	0	
125			Mahaba	DIS																						#DIV/0!	0	0	
126			Nasisi	DIS																						#DIV/0!	0	0	
127		Ogsong	DIS																						#DIV/0!	0	0		
128		Hibiga	DIS																						#DIV/0!	0	0		
129		San Francisco	DIS																						#DIV/0!	0	0		
130		San Ramon	DIS																						#DIV/0!	0	0		
131	Region VI	Aklan	DIS																						#DIV/0!	0	0		
132			Panakuyan	DIS																						#DIV/0!	0	0	
133			Sibalom-San Jose	DIS																						#DIV/0!	0	0	
134			Mambusao	DIS																						#DIV/0!	0	0	
135			Jalaur-Proper	Jalaur-1	-	-	-	80	80	80	80	50	50	50	50	50	0	50	-	-	-	-	50	0	51	80	0		
				Jalaur-2	-	-	-	33	50	50	0	50	50	50	50	50	0	80	80	50	0	50	50	44	80	0			
				Jalaur-3	-	-	-	80	80	80	80	50	50	50	50	50	0	50	-	-	-	-	50	0	51	80	0		
136			Jaluar- Extension	DIS																					#DIV/0!	0	0		
137			Suague	DIS																						#DIV/0!	0	0	
138			Sibalom-Tigbuan	DIS																						#DIV/0!	0	0	
139			Aganan	DIS																						#DIV/0!	0	0	
140		Sta. Barbara	DIS																						#DIV/0!	0	0		
141	Region VII	Barotac Viejo	Alacaygan	-	-	-	0	0	0	0	0	0	80	-	-	-	-	-	-	-	-	0	0	8	80	0			
142			Bago	DIS																					#DIV/0!	0	0		
143			Pangiplan	DIS																					#DIV/0!	0	0		
144			Bohol	DIS																					#DIV/0!	0	0		
145			Capayas	DIS																					#DIV/0!	0	0		
146		Region VIII	Mainit	DIS																					#DIV/0!	0	0		
147				Pongso	DIS																					#DIV/0!	0	0	
148				Bao	DIS																					#DIV/0!	0	0	
149				Binahaan North	DIS																					#DIV/0!	0	0	
150				Binahan South	DIS																					#DIV/0!	0	0	
151				Lower Binahaan	DIS																					#DIV/0!	0	0	
152			Tibak	DIS																					#DIV/0!	0	0		
153			Daguitan	DIS																					#DIV/0!	0	0		
154			Gumarona																						#DIV/0!	0	0		
155			Balire North	DIS																					#DIV/0!	0	0		
156			Balire South	DIS																					#DIV/0!	0	0		
157		Ibawon	DIS																					#DIV/0!	0	0			
158		Gibuya	DIS																					#DIV/0!	0	0			
159		Bito	DIS																					#DIV/0!	0	0			
160		Hindang-Hilongos	DIS																					#DIV/0!	0	0			
161	Region IX	Das-Ay	DIS																					#DIV/0!	0	0			
162			Sibuguey Valley	DIS																					#DIV/0!	0	0		
163			Dipolo	DIS																					#DIV/0!	0	0		
164		Salug	DIS																					#DIV/0!	0	0			

Pumping Station

NO.	Region	NIS	Pumping Station Name	Intake Gate			Suction Sump				Pump				Discharge Sump				Slope Protection				Pump House		Mean	Max.	Min.	
				Rust	Damaged	Leak	Damaged	Leak	Sediment	Scoured	Rust	Damaged	Leak	Function	Damaged	Leak	Sediment	Scoured	Damaged	Leak	Sediment	Scoured	Damaged	Leak				
165	Region IX	Labangan	DIS																						#DIV/0!	0	0	
166		Bubunawan																							#DIV/0!	0	0	
167		Manupali	DIS																						#DIV/0!	0	0	
168	Region X	Pulangui	DIS																						#DIV/0!	0	0	
169		Roxas-Kuya	DIS																						#DIV/0!	0	0	
170		Muleta	DIS																						#DIV/0!	0	0	
171	Region X	Rugnan																							#DIV/0!	0	0	
172		Maranding	DIS																						#DIV/0!	0	0	
173		Lupon	DIS																						#DIV/0!	0	0	
174		Batutu	DIS																						#DIV/0!	0	0	
175		Saug	DIS																						#DIV/0!	0	0	
176		Libunganon-Left	DIS																						#DIV/0!	0	0	
177	Region XI	Lasang	DIS																						#DIV/0!	0	0	
178		Libunganon-Right	DIS																						#DIV/0!	0	0	
179		Kipaliku	DIS																						#DIV/0!	0	0	
180		Mal	DIS																						#DIV/0!	0	0	
181		Padada	DIS																						#DIV/0!	0	0	
182		Alip	DIS																						#DIV/0!	0	0	
183		Talayan	DIS																						#DIV/0!	0	0	
184		Maridagao																										
185		Libungan	DIS																						#DIV/0!	0	0	
186		Kabulnan																										
187		Kabacan	DIS																						#DIV/0!	0	0	
188		Pagalungan	Intake																						#DIV/0!	0	0	
189		Miang	DIS																						#DIV/0!	0	0	
190		Malasila	DIS																						#DIV/0!	0	0	
191	Region XII	Lambayong	DIS																						#DIV/0!	0	0	
192		Tacurong (Dumaguil)	DIS																						#DIV/0!	0	0	
193		Allah-1	DIS																						#DIV/0!	0	0	
194		Allah-2	DIS																						#DIV/0!	0	0	
195		Banga	DIS																						#DIV/0!	0	0	
196		Marbel-1	DIS																						#DIV/0!	0	0	
197		Marbel-2	DIS																						#DIV/0!	0	0	
198		Siluay	DIS																						#DIV/0!	0	0	
199		Buayan	DIS																						#DIV/0!	0	0	
200		Cabadbaran-Taguibo	DIS																						#DIV/0!	0	0	
201		Cantillan	Intake																						#DIV/0!	0	0	
202	Region XIII	Tago	DIS																						#DIV/0!	0	0	
203		Andanan	DIS																						#DIV/0!	0	0	
204		Gibong	DIS																						#DIV/0!	0	0	
205		Simulao	DIS																						#DIV/0!	0	0	

Table A2-5 (3) Tabulation of Present Conditions of Functionality of Irrigation and Drainage Facilities (Canal)

(unit: %)

NO.	Region	NIS	Main Canal Name	Main Canal				Lateral - A & Sub-lateral - A				Lateral - B & Sub-lateral - B				Lateral - C & Sub-lateral - C				Lateral - D & Sub-lateral - D				Lateral - E & Sub-lateral - E				Mean	Max.	Min.				
				Damaged	Leak	Sediment	Related S.	Damaged	Leak	Sediment	Related S.	Damaged	Leak	Sediment	Related S.	Damaged	Leak	Sediment	Related S.	Damaged	Leak	Sediment	Related S.	Damaged	Leak	Sediment	Related S.							
1	CAR	Upper Chico	Chico	50	50	80	80	60	50	80	80	60	50	80	80	60	50	80	80	60	50	80	80	60	50	80	80	60	50	80	80	64	80	50
			Talaca Catch	60	50	50	80	50	50	50	80	50	50	50	80	50	50	50	80	50	50	50	80	50	50	50	80	50	50	50	80	58	80	50
							50	50	50	80	50	50	50	80	50	50	50	80	50	50	50	80	50	50	50	80	50	50	50	80	58	80	50	
2		Hapid																																
3		West Apayao Abulog																																
4	Region I	Bonga PIS-1	Bonga Pump # 1	50	50	50	50	17	0	50	50	17	50	50	50	N/A	N/A	N/A	N/A	-	-	-	-	-	-	-	-	40	50	0				
5		Bonga PIS-2	Bonga Pump # 2	70	50	50	80	50	50	80	80	70	50	50	80	80	80	50	80	-	-	-	-	-	-	-	-	66	80	50				
6		Bonga PIS-3	Bonga Pump # 3	50	50	50	70	33	50	0	50	50	50	0	80	-	-	-	-	-	-	-	-	-	-	-	-	44	80	0				
7		Laoag Vintar	M. C. # 1		70	80	80	80	70	80	80	80	60	50	80	80	53	80	80	80	-	-	-	-	-	-	-	-	74	80	50			
			M. C. # 2		70	80	80	80	70	80	80	80	50	50	50	80	80	80	80	80	80	80	80	80	70	80	80	80	75	80	50			
			M. C. # 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	33	50	50	60	N/A	N/A	N/A	N/A	-	-	-	-	48	60	33				
8		Nmc Pasuquin		50	50	80	80	50	50	50	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	58	80	50				
9		Dingras	Dingras Int.	50	50	50	50	50	50	50	50	60	50	50	50	50	50	50	50	50	50	50	50	-	-	-	-	51	60	50				
10		Bolo	N/A	60	50	50	50	50	50	50	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	51	60	50				
11		Cura	Cura Int.	50	50	50	80	70	50	80	80	60	80	80	80	60	80	80	80	80	-	-	-	-	-	-	-	69	80	50				
12		Nueva Era	Nueva Era	60	80	80	80	N/A	N/A	N/A	N/A	53	80	80	80	-	-	-	-	-	-	-	-	-	-	-	-	74	80	53				
13		Madongan Area	Right M. C.		60	80	50	50	70	80	80	50	70	80	80	80	70	80	50	50	-	-	-	-	-	-	-	-	68	80	50			
			Left M. C.		80	80	80	80	50	50	80	80	80	80	80	80	80	80	80	80	80	80	80	80	60	80	80	80	77	80	50			
14		Solsona Area	Right M. C.		60	80	80	80	43	80	80	80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	73	80	43			
	Left M. C.																											#DIV/0!	0	0				
Region I	Labugaon Area	Labugaon		50	50	80	80	43	80	50	50	60	80	80	50	50	50	50	50	43	80	80	50	33	50	80	80	60	80	33				
								50	50	50	80	17	50	50	50	17	0	50	50	-	-	-	-	-	-	-	-	43	80	0				
	Papa Area	M. C. # 1		17	50	50	50	70	80	0	50	70	80	50	50	70	80	80	50	-	-	-	-	-	-	-	-	56	80	0				
			M. C. # 2		33	50	50	50	0	0	0	80	27	80	80	50	53	80	80	50	-	-	-	-	-	-	-	-	48	80	0			
	Sta. Maria-Burgos	Sta. Maria-Burgos	33	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	-	-	-	-	49	50	33					
	Sta. Lucia-Candon	Sta. Lucia-Candon	33	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	-	-	-	-	49	50	33					
	Tagudin	Tagudin	50	50	0	50	50	50	50	50	50	50	50	50	50	50	50	50	-	-	-	-	-	-	-	-	47	50	0					
	19	Amburayan	Amburayan		50	50	50	80	0	0	50	50	50	50	50	50	50	50	50	50	33	0	50	50	50	50	80	80	48	80	0			
								0	0	50	50	50	50	50	50	50	50	50	50	80	50	80	80	50	50	80	80	53	80	0				
								50	50	80	80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	65	80	50				
	21	Ambayoan	Ambayoan Int.	33	50	80	80	50	50	80	80	43	50	80	50	33	50	80	80	33	50	80	80	33	50	80	80	61	80	33				
	22	Ambayoan-Extension																										#DIV/0!	0	0				
	23	Dipalo	Dipalo	50	80	50	0	50	50	80	80	17	0	80	80	17	50	80	80	77	50	0	80	-	-	-	-	53	80	0				
	24	Masalip	Agoo M.C.		60	80	80	80	60	50	80	80	60	50	50	80	70	50	80	80	50	50	50	80	-	-	-	-	66	80	50			
Masalip M.C.				60	80	80	80	70	50	80	80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	73	80	50				
Gumacbao				50	50	50	80	50	50	50	80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	58	80	50				
25	Lower Agno	Lower Agno	33	50	80	50	33	50	50	50	33	50	50	50	33	50	50	50	33	50	50	50	43	50	50	50	47	80	33					
26	San Fabian	San Fabian	30	30	50	60	0	50	50	60	3	40	70	60	0	30	30	70	-	-	-	-	-	-	-	-	40	70	0					
27	Dumuloc	Dumuloc	50	60	40	100	50	50	40	40	50	80	40	40	40	40	30	40	-	-	-	-	-	-	-	-	49	100	30					
28	Agno	Agno		50	50	80	90	50	50	80	80	20	20	80	80	40	30	80	80	40	40	80	80	40	40	80	80	60	90	20				
								30	30	30	80	40	40	80	80	40	40	80	80	40	40	80	80	40	40	80	80	55	80	30				
								40	40	80	80	30	30	80	80	40	40	80	80	-	-	-	-	-	-	-	-	58	80	30				
29	Sinolacan	Sinolacan #1		50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50				
		Sinolacan # 2		50	50	50	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50	50	50				
30	Region II	Visitacion																																
31	Baua	Baua		50	0	50	80	53	50	80	80	70	80	80	80	43	50	50	80	53	80	80	80	53	80	80	80	65	80	0				
		Banurbur Creek	San Lorenzo		50	50	50	50	33	50	50	50	50	50	50	50	-	-	-	-	-	-	-	-	-	-	-	-	49	50	33			
			Nagsabaran		80	80	50	80	70	50	50	80	60	50	80	80	80	80	80	80	60	50	80	80	-	-	-	-	70	80	50			
33	Magapit PIS	Magapit M.C.		60	50	80	80	60	50	80	80	50	50	80	80	50	43	50	80	50	50	50	50	43	0	80	59	80	0					
							50	50	50	80	50	50	50	0	50	50	50	0	50	50	50	0	-	-	-	-	43	80	0					

NO.	Region	NIS	Main Canal Name	Main Canal			Lateral - A & Sub-lateral - A				Lateral - B & Sub-lateral - B				Lateral - C & Sub-lateral - C				Lateral - D & Sub-lateral - D				Lateral - E & Sub-lateral - E				Mean	Max.	Min.							
				Damaged	Leak	Sediment	Related S.	Damaged	Leak	Sediment	Related S.	Damaged	Leak	Sediment	Related S.	Damaged	Leak	Sediment	Related S.	Damaged	Leak	Sediment	Related S.	Damaged	Leak	Sediment				Related S.						
171	Region X	Rugnan																																		
172		Maranding	Maranding	0	0	0	80	0	0	0	17	33	50	80	60	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	#DIV/0!	0	0	
173		Lupon	Tag-ugpo	70	50	50	0	57	50	50	80	70	50	50	80	70	50	50	80	--	--	--	--	--	--	--	--	--	--	--	--	--	--	38	80	0
174		Batutu	Batutu	33	50	80	80	50	50	80	80	50	50	80	80	33	0	0	50	50	50	80	80	--	--	--	--	--	--	--	--	--	57	80	0	
175		Saug	D. Canal	50	50	50	50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	55	80	0	
176	Region XI	Libunganon-Left	M. C. West	50	50	50	50	50	50	80	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	
			M. C. East	60	50	80	50	50	50	80	50	50	50	50	50	50	80	50	50	50	80	50	50	50	80	50	50	50	50	50	50	50	50	50	50	
			Libunganon	50	50	50	50	50	50	50	50	0	0	0	50	50	50	50	50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	41	50	0
			Lasang	Lasang	43	50	80	80	60	50	80	80	60	50	80	80	60	50	80	80	60	50	80	80	60	50	80	80	60	50	80	80	80	67	80	43
177	178	Libunganon-Right	Libunganon	43	50	80	80	60	50	80	80	60	50	80	80	60	50	80	80	60	50	80	80	60	50	80	80	60	50	80	80	67	80	43		
43				50	80	80	60	50	80	80	60	50	80	80	60	50	80	80	60	50	80	80	60	50	80	80	60	50	80	80	67	80	43			
60				50	80	80	60	50	80	80	60	50	80	80	60	50	80	80	60	50	80	80	60	50	80	80	60	50	80	80	67	80	43			
179	Kipaliku	Kipaliku	60	50	50	80	60	50	80	80	--	--	--	--	60	50	80	80	--	--	--	--	--	--	--	--	--	--	--	--	--	65	80	50		
180	Mal	Doagan Pekong	60	50	50	80	70	80	50	80	60	80	50	50	60	80	50	50	70	80	50	50	60	50	50	60	50	50	80	60	80	50	50			
181	181	Padada	Padada	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	60	80	50
182	Region XII	Alip	Alip	70	50	80	50	50	50	80	80	50	50	80	80	50	50	80	50	50	50	80	50	50	80	50	50	80	50	50	50	50	62	80	50	
183		Talayan	Talayan	33	0	50	50	50	50	50	50	33	0	50	50	33	0	50	50	--	--	--	--	--	--	--	--	--	--	--	--	--	37	50	0	
184		Maridagao																																#DIV/0!	0	0
185		Libungan	Libungan	70	50	50	80	60	0	80	80	27	0	50	50	0	0	0	50	17	0	50	80	27	0	80	80						41	80	0	
186		Kabulan						17	0	50	50	17	0	50	50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	29	50	0	
187	Kabacan	Kabacan	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	--	--	--	--	--	--	--	--	--	50	50	50		
188	Pagalungan	Pagalungan	17	0	0	17	33	0	0	17	33	0	0	17	33	0	0	17	33	0	0	17	--	--	--	--	--	--	--	--	--	12	33	0		
189	Ugpay	Ugpay	33	50	50	80	17	50	50	80	17	50	50	50	17	0	50	50	17	50	50	50	--	--	--	--	--	--	--	--	43	80	0			
190	Malasila	New Barbaza	33	50	50	80	0	0	0	50	17	0	50	50	17	0	50	50	--	--	--	--	--	--	--	--	--	--	--	31	80	0				
191	Lambayong	Lambayong	50	50	80	80	17	0	80	80	17	0	50	50	17	50	50	50	50	80	80	33	50	50	50	50	50	50	50	50	49	80	0			
192	Tacurong (Dumaguil)	Dumaguil	33	50	80	80	0	0	80	80	0	0	50	50	17	50	80	80	--	--	--	--	--	--	--	--	--	--	--	46	80	0				
193	Allah-1	Surallah	50	50	50	50	50	50	80	50	50	50	80	50	50	50	80	50	50	80	50	27	50	80	50	27	50	80	50	55	80	27				
194	Allah-2	Sto. Nifio	43	50	80	60	50	50	50	80	50	50	80	80	70	50	50	50	70	50	50	80	17	50	50	50	50	50	50	57	80	17				
195	Banga	Banga	80	80	50	50	17	0	50	60	0	0	50	50	0	0	50	50	50	50	50	50	17	50	0	50	50	50	50	38	80	0				
196	196	Marbel-1	Marbel-1	50	0	50	50	0	0	0	0	0	0	0	0	0	80	80	80	70	80	80	80	80	80	80	80	80	80	80	46	80	0			
197	197	Marbel-2	Marbel 2	53	80	80	80	60	50	50	80	80	80	50	80	80	80	80	80	80	80	80	--	--	--	--	--	--	--	--	73	80	50			
198	198	Siluy	Siluy	0	0	50	50	0	0	0	50	33	50	50	33	0	50	50	33	0	50	50	--	--	--	--	--	--	--	--	30	50	0			
199	199	Buayan	Tinagacan	50	50	50	50	17	50	50	50	33	50	50	50	27	0	80	80	--	--	--	--	--	--	--	--	--	--	46	80	0				
200	Region XIII	Cabadbaran-Taguibo	Cabadbaran	60	0	80	80	17	50	50	50	50	50	80	50	0	50	50	50	0	80	80	--	--	--	--	--	--	--	49	80	0				
201		Cantillan	Cantillan Int.	60	50	80	80	43	50	80	50	70	50	50	43	50	50	80	27	50	50	50	--	--	--	--	--	--	56	80	27					
202		Tago	M. C. Left	50	50	50	50	17	0	50	33	0	50	33	0	50	50	33	0	50	50	17	0	80	80	17	0	80	50	38	80	0				
202				33	0	50	50	33	0	50	0	27	0	80	50	43	0	80	50	27	0	80	50	--	--	--	--	--	--	36	80	0				
203		Andanan	Andanan	70	50	80	80	60	80	50	80	70	50	50	80	60	80	50	80	--	--	--	--	--	--	--	--	--	67	80	50					
204		Gibong	Gibong	N/A	N/A	N/A	N/A	33	50	50	N/A	0	0	50	N/A	33	0	50	50	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	50	33	50	0				
205	Simulao	Simulao	17	50	50	80	80	80	0	80	27	50	50	50	17	0	50	17	0	50	0	17	0	50	17	0	50	17	35	80	0					
								33	0	50	0	70	80	50	0	--	--	--	--	--	--	--	--	--	--	--	--	--	33	80	0					

Table A2-6 Evaluation of NIS Inventory Survey Results
for Functionality of Irrigation and Drainage Facilities

NO.	Region	RC (NISO)	NIS	Evaluation A: Very good		B: Good		C: Not good		D: Not submitted	
				Hard Print		Evaluation of NIS Inventory		Diversion	Pump	Canal	IV
				Hard Print	Elec. File						
1	CAR	Upper Chico	Upper Chico	1	1	B	-	A	B		
2		Hapid	Hapid	0	0	D	-	D	D		
3		West Apayao Abulog IS	West Apayao Abulog IS	0	0	D	-	D	D		
		Sub-tatal			1	1					
4	Region I	Ilocos Norte	Bonga PIS-1	1	1	-	C	C	C		
5			Bonga PIS-2	1	1	-	B	B	B		
6			Bonga PIS-3	1	1	-	B	B	B		
7			Laoag Vintar	1	1	C	-	C	C		
8			Nmc Pasuquin	1	1	C	-	A	C		
9			Dingras	1	1	A	-	A	A		
10			Bolo	1	1	B	-	B	B		
11			Cura	1	1	B	-	B	B		
12			Nueva Era	1	1	C	-	B	C		
13			Madongan Area	1	1	A	-	B	B		
14			Solsona Area	1	1	B	-	B	B		
15			Labugaon Area	1	1	A	-	B	B		
16			Papa Area	1	1	B	-	B	B		
17			Ilocos Sur	Sta. Maria-Burgos	1	1	B	-	B	B	
18				Sta. Lucia-Candon	1	1	B	-	B	B	
19				Tagudin	1	1	B	-	C	C	
20		Amburayan	Amburayan	1	1	B	-	A	B		
21		Ambayoan-Dipalo	Ambayoan	1	1	A	-	B	B		
22			Ambayoan-Extension	0	0	D	-	D	D		
23		Dipalo	1	1	B	-	A	B			
24		Masalip	Masalip	1	1	A	-	B	B		
25		Lower Agno	Lower Agno	1	1	A	-	B	B		
26		San Fabian-Dumuloc	San Fabian	1	1	A	-	A	A		
27			Dumuloc	1	1	A	-	A	A		
28		Agno-Sinolacan	Agno	1	1	B	-	A	B		
29			Sinolacan	1	1	A	-	A	A		
			Sub-tatal		25	25					
30		Region II	Visitacion	Visitacion	0	0	D	-	D	D	
31			Baua	Baua	1	1	A	-	A	A	
32	Banurbur Creek		Banurbur Creek	1	1	A	-	A	A		
33	Magapit		Magapit PIS	1	1	-	B	A	B		
34	Apayao-Abulug-Pamplona		Apayao-Abulug	1	1	B	-	A	B		
35			Pamplona	0	0	D	-	D	D		
36	Dummun		Dummun	1	1	A	-	B	B		
37	Zinundungan		Zinundungan	1	1	B	-	A	B		
38	Baggao		Baggao	1	1	B	-	B	B		
39	Iguig-Alcala-Amulung		Iguig-Alcala-Amulung PIS	1	1	-	C	C	C		
40	Lower Chico		Lower Chico RIS	1	1	C	-	A	C		
41	Solana-Pinacanauan		Solana PIS	1	1	-	A	A	A		
42			Pinacanauan	1	1	C	-	A	C		
43	San Pablo Cabagan		San Pablo Cabagan	1	1	A	-	A	A		
44	Tumauni		Tumauni	1	1	A	-	B	B		
45	Malilig		Malilig	1	1	B	-	A	B		
46	Bagabag		Bagabag	1	1	A	-	A	A		
		Sub-tatal		15	15						
47	MRIIS	MRIIS Distric I	MRIIS Distric I	1	1	B	-	A	B		
48		MRIIS Distric II	MRIIS Distric II	1	1	C	-	A	C		
49		MRIIS Distric III	MRIIS Distric III	1	1	B	B	A	B		
50		MRIIS Distric IV	MRIIS Distric IV	1	1	-	A	A	A		
		Sub-tatal		4	4						
51	Region III	Nayom-Bayto	Nayom	0	0	D	-	D	D		
52			Bayto	0	0	D	-	D	D		
53		Camiling	Camiling	1	1	A	-	B	B		
54		Tarlac-San Miguel	Tarlac	1	1	A	-	A	A		
55			San Miguel	0	0	D	-	D	D		
56		Bucaco	Bucaco	1	1	A	-	C	C		
57		NEPIS (Nueva Ecija PIS)	NEPIS	1	0	-	B	C	C		
58		Pampanga	Pampanga Delta	0	0	D	-	D	D		

NO.	Region	RC (NISO)	NIS	Hard Print		Evaluation of NIS Inventory			
				Hard Print	Elec. File	Diversion	Pump	Canal	IV
59	Region III	Porac- Gumain	Porac	1	0	A	-	B	B
60			Gumain	1	0	A	-	B	B
61		Colo-Caulaman	Colo	0	0	D	-	D	D
62			Caulaman	0	0	D	-	D	D
63		Angat-Maasim	Angat	1	1	A	-	A	A
64			Maasim	1	1	A	B	B	B
65		Disalit Creek	Disalit Creek	1	0	A	-	A	A
		Sub-total		9	5				
66	UPRIIS	UPRIIS District I	UPRIIS District I	1	1	A	-	B	B
67		UPRIIS District II	UPRIIS District II	1	0	C	-	A	C
68		UPRIIS District III	UPRIIS District III	1	1	C	-	B	C
69		UPRIIS District III (VACA)	UPRIIS District III (VACA)	0	0	D	-	D	D
70		UPRIIS District IV	UPRIIS District IV	1	0	B	-	B	B
		Sub-total		4	2				
71	Region IV	Cavite Friar Lands	Molino	1	1	C	-	B	C
72			Embarcadero-Baluctot	1	1	C	-	B	C
73			Luksuhin-Makuling	1	1	C	-	B	C
74			Pasong Kastila-Julian	1	1	C	-	B	C
75			Bankud	1	1	C	-	B	C
76			Butas Marcelo	1	1	C	-	B	C
77			Plucena-Bayan	1	1	C	-	B	C
78			Butas-Lawang Bato	1	1	C	-	B	C
79			Navarro	1	1	C	-	B	C
80			Matanda	1	1	C	-	B	C
81			Balayungan	1	1	C	-	B	C
82			Tres Cruses	1	1	C	-	B	C
83			San Agustin-Pasong Buaya	1	1	C	-	B	C
84			Culong-Culong	1	1	C	-	B	C
85			Sahing	1	1	C	-	B	C
86		Agos	Agos	1	1	C	C	A	C
87		Palico	Palico	1	1	C	-	B	C
88		Laguna Friar Lands	Cabuyao PIS	1	1	B	-	A	B
89			San Cristobal	1	1	B	-	A	C
90			Diezmo PIS	1	1	B	-	A	B
91			Macablang	1	1	B	B	A	B
92			San Juan	1	1	B	-	A	B
93		Sta. Maria-Mayor	Sta. Maria	1	1	C	C	B	C
94			Mayor	1	1	C	-	B	C
95			Dambo PIS	1	1	-	C	C	C
96		Sta. Cruz-Mabacan-Balanac	Sta. Cruz	1	1	A	-	A	A
97			Mabacan	1	1	A	-	B	B
98			Balanac	1	1	A	-	B	B
99			Lumban	1	1	A	-	B	B
100		Dumacaa-Hanagdong-Lagnas	Malaunod	1	1	A	-	B	B
101			Dumacaa	1	1	A	-	B	B
102			Hanagdong	1	1	A	-	B	B
103		Pagbalian	Lagnas	1	1	B	-	B	B
104			Pagbahay	1	1	A	-	A	A
105		Baco Bucayao-Mag-	Baco Bucayao	1	1	B	-	A	B
106	Asawang Tubig	Mag-Asawang Tubig	1	1	B	-	B	B	
107	Amnay-Partic-Mongpong	Amnay-Patric	1	1	B	-	C	C	
108		Mongpong	1	0	C	C	C	C	
109	Pula-Bansud	Pula	1	0	C	-	C	C	
110		Bansud	1	1	C	-	C	C	
111	Lumintao	Lumintao	1	1	C	-	C	C	
112	Caguray	Caguray	1	1	B	-	B	B	
113	Cantingas	Cantingas	1		C	-	B	C	
114	Batang-Batang-Malatgao	Batang-Batang	1	0	A	-	A	A	
115		Malatgao	1	0	A	-	A	A	
		Sub-total		45	40				
116	Region V	Daet Talisay-Matognon	Daet Talisay	1	1	C	-	A	C
117			Matogdon	1	1	A	-	A	A
118		Libmanan Cabusao	Libmanan Cabusao PIS	0	0	D	-	D	D
119		Tigman-Hinagyanan-	Tigman-Hinagyanan	1	1	B	-	B	B
120		Inarihan	Inarihan	1	1	B	-	A	B
121		Cagaycay	Cagaycay	1	1	B	-	B	B

NO.	Region	RC (NISO)	NIS	Hard Print		Evaluation of NIS Inventory			
				Hard Print	Elec. File	Diversion	Pump	Canal	IV
122	Region V	Rinconada Integrated	Barit	0	0	D	-	D	D
123			Rida	0	0	D	-	D	D
124			Buhi-Lalo	0	0	D	-	D	D
125		Mahaba-Nasisi-Ogsong-Hibiga	Mahaba	1	1	B	-	A	B
126			Nasisi	1	1	B	-	B	B
127			Ogsong	1	1	B	-	B	B
128		Pili-Bulan-San Francisco	Hibiga	1	1	B	-	A	B
129			San Francisco	1	1	C	-	A	C
130			San Ramon	1	1	C	-	A	C
			Sub-tatal		11	11			
131	Region VI	Aklan Panakuyan	Aklan	1	1	A	-	A	A
132			Panakuyan	1	1	A	-	A	A
133		Sibalom-San Jose	Sibalom-San Jose	1	1	A	-	B	B
134		Mambusao	Mambusao	1	1	A	-	A	A
135		Jaluar-Suague	Jalaur-Proper	1	1	B	B	A	B
136			Jaluar- Extension	1	1	B	-	A	B
137			Suague	1	1	A	-	B	B
138		Sibalom-Tigbuan	Sibalom-Tigbuan	1	1	A	-	A	A
139		Aganan-Sta Barbara	Aganan	1	1	A	-	B	B
140			Sta. Barbara	1	1	A	-	B	B
141		Barotac Viejo	Barotac Viejo	1	1	A	A	A	A
142		Bago	Bago	1	1	A	-	A	A
143		Pangiplan	Pangiplan	1	1	A	-	A	A
		Sub-tatal		13	13				
144	Region VII	Bohol	Bohol	1	1	B	-	C	C
145			Capayas	0	0	D	-	D	D
		Sub-tatal		1	1				
146	Region VIII	Mainit-Pongso	Mainit	1	1	B	-	A	B
147			Pongso	1	1	B	-	A	B
148		Bao	Bao	1	1	B	-	A	B
149		Binahaan-Tibak	Binahaan North	1	1	C	-	C	C
150			Binahan South	1	1	C	-	A	C
151			Lower Binahaan	1	1	B	-	A	B
152		Tibak	Tibak	1	1	C	-	A	C
153		Daguitan-Guinarona	Daguitan	1	1	B	-	A	B
154			Gumarona	1	1	B	-	A	B
155		Balire-Ibawon-Gibuga	Balire North	1	1	B	-	A	B
156			Balire South	1	1	A	-	A	A
157			Ibawon	1	1	A	-	A	A
158		Gibuya	Gibuya	1	1	A	-	A	A
159	Bito	Bito	1	1	C	-	A	C	
160	Hindang-Hilongos-Das-Ay	Hindang-Hilongos	1	1	B	-	A	B	
161		Das-Ay	1	1	B	-	A	B	
		Sub-tatal		16	16				
162	Region IX	Sibuguey Valley	Sibuguey Valley	1	1	B	-	A	B
163		Dipolo-Salug	Dipolo	1	1	B	-	B	B
164			Salug	1	1	A	-	A	A
165		Labangan	Labangan	1	1	A	-	A	A
		Sub-tatal		4	4				
166	Region X	Bubunawan	Bubunawan	0	0	D	-	D	D
167		Manupali	Manupali	1	0	A	-	A	A
168		Pulangui-Roxas-Kuya	Pulangui	1	0	A	-	A	A
169			Roxas-Kuya	1	0	A	-	A	A
170		Muleta	Muleta	1	0	B	-	A	B
171		Rugnan	Rugnan	0	0	D	-	D	D
172	Maranding	Maranding	1	1	C	-	A	C	
		Sub-tatal		5	1				
173	Region XI	Lupon	Lupon	1	1	A	-	A	A
174		Batutu	Batutu	1	1	A	-	A	A
175		Saug-Libuganon Left	Saug	1	1	A	-	A	A
176			Libuganon-Left	1	1	B	-	B	B
177		Lasang-Libuganon-Kipaliku	Lasang	1	1	B	-	A	C
178			Libuganon-Right	1	0	B	-	A	B
179			Kipaliku	1	1	B	-	A	C
180		Mal-Padada	Mal	1	0	A	-	A	A
181			Padada	1	1	B	-	B	B
		Sub-tatal		9	7				

NO.	Region	RC (NISO)	NIS	Hard Print		Evaluation of NIS Inventory				
				Hard Print	Elec. File	Diversion	Pump	Canal	IV	
182	Region XII	Alip-Talayan	Alip	1	1	A	-	A	A	
183			Talayan	1	1	C	-	A	C	
184		Maridagao	Maridagao	0	0	D	-	D	D	
185		Libungan	Libungan	1	1	A	-	A	A	
186		Kabulnan	Kabulnan	0	0	D	-	D	D	
187		Kabacan-Pagalungan	Kabacan	1	1	A	-	A	A	
188			Pagalungan	1	1	B	-	A	B	
189		Mlang-Malasila	Mlang	1	1	C	-	C	C	
190			Malasila	1	1	B	-	B	B	
191		Lambayong-Dumagul	Lambayong	1	1	B	-	A	B	
192			Tacurong (Dumaguil)	1	0	B	-	A	B	
193		Allah-Banga-Marbel	Allah-1	1	1	B	-	A	C	
194			Allah-2	0	0	D	-	D	D	
195			Banga	1	1	A	-	A	A	
196			Marbel-1	1	1	A	-	A	A	
197		Siluay-Buayan	Marbel 2	1	1	A	-	A	A	
198			Siluay	1	1	A	-	A	A	
199		Buayan	1	1	B	-	A	B		
			Sub-tatal		15	14				
200	Region XIII	Cabadbaran-Taguibo	Cabadbaran-Taguibo	1	0	A	-	A	A	
201		Cantillan	Cantillan	1	1	A	-	A	A	
202		Tago	Tago	1	1	A	-	A	A	
203		Andanan	Andanan	1	0	A	-	A	A	
204		Gibong	Gibong	1	1	B	-	B	B	
205		Simulao	Simulao	1	0	A	-	A	A	
			Sub-tatal		6	3				
		Total		183	162					
						Evaluation: A	70	3	103	49
						B	62	8	65	80
						C	42	6	15	54
						D	22	0	22	22
						Total	196	17	205	205

Reg. No	NISO (Responsible Center (RC)) Information					NISO (Responsible Center (RC)) Information, Management																																												
	NISO (RC)					Expenses															Income															Program of Work														
	No	Name	No	Name		Firmed Up Service Area (FUSA)	Total No. of Personnel	Personnel /FUSA	FUSA/ Personnel	Viability Index	Personnel Services	MOOE	Project personnel	Total	FUSA	Unit Expenses/ FUSA	ISF	Equip. Rental	Others	Total	FUSA	Unit Expenses/ FUSA	Activity	Desilting Canal	Desilting Drainage	Canal Lining	Road Surfacing	Road Concreting	Dam Repair	River Diversion	Drainage Imp'vment	Facility Imp'vment	Inst'l Dev.	Others	Total	FUSA	Total Unit Amount	Maintenance Cost Amount	Unit Amount	RI Cost Amount	Unit Amount	IDP Fund Allocation in 2004								
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(P000) (11)	(P000) (12)	(P000) (13)	(P000) (14)	(ha) (15)	(P/ha) (16)	(P000) (17)	(P000) (18)	(P000) (19)	(P000) (20)	(ha) (21)	(P/ha) (22)	(rating) (23)	(P000) (24)	(P000) (25)	(P000) (26)	(P000) (27)	(P000) (28)	(P000) (29)	(P000) (30)	(P000) (31)	(P000) (32)	(P000) (33)	(P000) (34)	(P000) (35)	(ha) (36)	(P/ha) (37)	(P000) (38)	(P/ha) (39)	(P000) (40)	(P/ha) (41)	(mark) (42)								
XII	101	Kabacan-Pagalungan	187	Kabacan		4,423	25	0.0057	177	4,202	1,296	97	5,595	4,423	1.268	5,716	801	250	6,767	4,423	1,530	Low	759	0	197	178	0	0	0	0	555	0	0	1,689	4,423	382	937	212	752	170										
						700			178	121	73	0	194	700	277	106	191	0	297	700	424	Low	999	0	0	0	0	0	0	95	64	0	1,158	700	1,654	999	1,427	159	228	o										
						3,177	11	0.0035	289	0.86	2,085	624	0	2,714	3,177	853	1,996	446	5	2,447	3,177	770	Low	73	0	22	61	0	0	209	139	177	0	521	3,177	164	134	42	387	122										
						4,013	9	0.0022	446	1.17	2,397	1,756	0	4,133	4,013	1,030	4,159	147	2	4,308	4,013	1,074	Low	144	92	0	291	0	0	27	200	15	0	768	4,013	191	526	131	242	60	o									
						11,335	56	0.0049	203	1.20				12,135	11,355	1,069	12,830	64	1,675	14,569	11,355	1,283	Low	2,778	0	1,733	473	0	0	0	0	0	4,983	11,355	430	3,251	286	1,733	153											
						192								1,942	0	0	1,942	1,768			1,103																													
						10,356	58	0.0056	179	1.12	10,321	2,574	1,214	13,905	10,356	1,343	12,284	3,138	178	15,597	10,356	1,506	Low	1,080	127	1,164	390	0	694	2,763	1,051	1,073	162	232	8,737	10,356	844	4,360	421	4,377	423	o								
						194																																												
						6,093	49	0.0080	124	1.40	2,404	901	0	3,305	2,554	1,294	4,047	425	48	4,520	2,554	1,770	Low	0	0	0	122	0	0	85	543	0	52	801	2,554	314	122	48	679	266										
						196								0.93	2,416	679	0	3,095	1,676	1,847	3,124	816	4,191	1,676	2,501	Low	38	0	0	106	0	0	38	274	8	0	465	1,676	277	145	86	320	191	o						
						197								0.93	1,751	664	44	2,459	1,676	1,467	2,246	326	23	2,595	1,676	1,548	Med	291	0	0	81	0	0	30	90	23	0	515	1,676	307	372	222	143	85	o					
						1,421	16	0.0113	89	0.76	1,738	285	0	2,023	1,420	1,425	835	601	41	1,477	1,420	1,040	Med	1,218	30	0	47	0	0	547	0	80	0	0	1,922	1,420	1,354	1,842	1,297	80	56									
						199																																												
XIII	106	Cabadbaran-Taguibo	200	Cabadbaran-Taguibo		2,500	17	0.0068	147	1.09	2,736	682	0	3,418	2,500	1,367	2,058	1,085	487	3,630	2,500	1,452	Low	0	3,432	0	0	0	4,000	223	0	2,038	0	0	9,693	2,500	3,877	3,654	1,462	6,038	2,415									
						1,825	12	0.0066	152	1.07	1,801	2,320	0	4,121	1,825	2,258	1,857	529	121	2,507	1,825	1,374	Low																											
						3,716	26	0.0070	143	1.39	2,502	692	0	3,194	3,716	860	2,854	801	1,000	4,655	3,716	1,253	Low	1,279	83	0	1,985	0	215	0	0	2,786	0	184	6,532	3,716	1,758	3,347	901	3,185	857									
						3,501	17	0.0049	206	1.26	2,800	794	0	3,594	3,500	1,027	4,102	495	361	4,958	3,500	1,417	Med	385	284	0	395	0	0	0	0	1,017	81	22	2,183	3,500	624	1,064	304	1,120	320	o								
						2,844	14	0.0049	203		2,170	286	0	2,456	2,841	864	1,752	775	257	2,784	2,841	980	Low																											
						205																																												
Total						541,225	2,763	0.6698	21,223	120.13	391,839	102,205	26,304	520,348	462,927	166,806	469,351	57,430	43,255	570,036	466,871			83,137	43,306	140,034	83,276	1,715	25,468	15,042	31,569	104,390	3,028	21,276	552,243	459,821	249,151	234,764	89,384	327,480	159,767	46								
Average						4,796	26	0.0062	197	1.10	3,407	889	235	4,531	3,952	1,426	3,911	479	360	4,750	3,891			705	367	1,187	706	15	216	127	268	885	26	180	4,680	3,897	2,111	1,505	757	2,775	1,354									
Unit Amount (values/ha)								0.0051	196		848	221	57	1,125			1,005	123	93	1,221			181	94	305	181	4	55	33	69	227	7	46	1,201		489			712											
Ratio (%)										75	20	5	100				82	10	8	100			15	8	25	15	0	5	3	6	19	1	4	100								39								
Max						26,794	158	0.0246	700	2.28													6,717																			12,300								
Min						300	1	0.0014	41	0.36																															0									

Table A2-7 (3) Tabulation of Inventory Survey Result for the Sector of Organization and Operation and Maintenance (3)

Reg. No	NIS Information				NIS Information											Rating of Organization on O&M Capability							
	NISO (RC)		NIS		Management Record					IA						NIS Func'lity Survey			ISF CE Rating	Data Collection		Inventory Rating on Org.	
	No	Name	No	Name	FUSA	IMT Area	Cropping Intensity			Average Yield	ISF C.E. Year	Debt to IA, 2004	Coverage Area	Average Size	Membership Rate	Func'lity Ave. Pts	Point	Adjective Rating		Inventory Rating	Class of Data		Inventory Rating
	(1)	(2)	(3)	(4)	(5)	(ha) (99)	(ha) (100)	(%) (101)	(%) (102)	(%) (103)	(cav./ha) (104)	(%) (105)	(Pesos) (106)	(ha) (107)	(ha) (108)	(%) (109)	(point) (110)	(point) (111)	(rating) (112)	(rating) (113)	(class) (114)	(rating) (115)	(rating) (116)
CAR	1	Upper Chico	1	Upper Chico	15,258	0	55	55	111	82	44	0	4,762	159	100	0.7	85.0	VS	High	Low	B	High	High
	2	Hapid	2	Hapid													81.5	VS	High		D		
	3	West Apayao Abulog IS	3	West Apayao Abulog																	D		
I	4	Ilocos Norte	4	Bonga PIS-1	170	0	74	79	153	96	115	0	173	173	94	4.0			High	C			
	5		5	Bonga PIS-2	545	0	44	40	83	76	108	0	545	545		4.0			High	B	High	High	
	6		6	Bonga PIS-3	157	0	69	71	140	109	97	0	172	172	99	4.0			High	B	High	High	
	7		7	Laoag Vintar	2,286		93	68	165	92	59	0	2,364	473	72	2.6			Med	C			
	8		8	Nmc Pasaquin	630		81	81	162	88	69	0	729	729	59	2.0			Med	C			
	9		9	Dingras	1,004	0	84	97	180	89	61	0	1,016	339	67	1.7			Med	A	Med	Med	
	10		10	Bolo	364	0				90	60	0	425	425	75	1.0			Med	B	Med	Med	
	11		11	Cura	550	550	65	96	161	84	93	0	550	138	51	3.3			High	B	High	High	
	12		12	Nueva Era	386	0	33	56	89	80		0	386	193	57	0.0				C			
	13		13	Madongan Area	2,923	0	72	88	159	84										B	X	Med	
	14		14	Solsona Area	1,340	0	52	54	106	84	110	0	1,029	206		1.2			High	B	High	High	
	15		15	Labugaon Area	1,470	0	50	63	113	82	69	0	1,982	180	29				Med	B	Med	Med	
	16		16	Papa Area	2,337	0	50	69	118	83	71	0	1,883	628	54	1.3			High	B	High	High	
	5	Ilocos Sur	17	Sta. Maria-Burgos	914	0	4	64	68	74	78	0	913	457	42	1.0			High	B	High	High	
	18		18	Sta. Lucia-Candon	1,555	0	16	68	84	74	51	0	1,542	514	44	0.3			Med	B	Med	Med	
	19		19	Tagudin	1,313	0	61	89	151	79		0	1,354	673	52	3.0				C			
	6	Amburayan	20	Amburayan	3,289	0	57	71	127	86	24	0	3,289	274	65	1.0			Low	B	Low	Low	
	7	Ambayoan-Dipalo	21	Ambayoan																B	X	Low	
			22	Ambayoan-Extension																D			
			23	Dipalo	2,002	0	15	100	115	90	27	0	2,002	667	100	2.0			Low	B	Low	Low	
	8	Masalip	24	Masalip	1,585															C			
	9	Lower Agno	25	Lower Agno	4,134	0	36	50	86	78	61	0	3,442	143	79	1.8			Med	B	Med	Med	
	10	San Fabian-Dumuloc	26	San Fabian	2,026	0	46	66	112	75	121	0	2,026	289	72	1.4			High	A	High	High	
			27	Dumuloc	1,232	406	46	72	118	76	52	0	1,232	246	85	1.8			Med	A	Med	Med	
	11	Agno-Sinocalan	28	Agno	9,467	0	40	47	77	79	30			449	64				Low	D			
			29	Sinocalan	2,570	0	59	2	62	81	43	0		277	53	0.8			Low	D			
II	12	Baua-Vistacion	30	Vistacion													84.0	VS	High		D		
			31	Baua	1,867	517	64	41	105	82	93	0	1,733	144	90	2.5	72.0	S	Med	High	A	Med	Med
	13	Banurbur Creek	32	Banurbur Creek	1,838	1,838	62	50	112	80	74	0	1,838	306	88	1.8	68.0	F	Med	High	A	Med	Med
	14	Magapit	33	Magapit PIS	10,046	10,046	86	53	139	64	62	0	10,047	1,005	68	1.9	76.5	S	Med	Med	A	Med	Med
	15	Apayao-Abulog-Pamplona	34	Apayao-Abulug	8,175	0	59	52	111	73	43	0	6,151	280	100	1.5	71.0	S	Med	Low	A	Med	Med
			35	Pamplona																D			
	16	Dummun	36	Dummun	1,502	0	84	70	154	68	91	0	1,502	1,502	69	2.0	72.5	S	Med	High	B	Med	Med
	17	Zinundungan	37	Zinundungan	2,045	0	81	78	159	79	68	0	2,045	341	95	1.8	80.0	S	Med	Med	C		
	18	Baggao	38	Baggao	2,067	0	89	71	160	98	64						64.5	F	Med	Med	B	Med	Med
	19	Iguig-Alcala-Amulung	39	Iguig-Alcala-Amulung PIS	2,112	2,112	62	57	118			0	2,306	769	80	2.3	65.0	F	Med		C		
	20	Lower Chico	40	Lower Chico	1,404	895	57	73	129	78	83	0	1,404	281	89	1.6	78.5	S	Med	High	C		
	21	Solana-Pinacanan	41	Solana PIS	2,777	0	41	27	68	73	78	0	1,735	1,735	100	2.0	70.0	F	Med	High	C		
			42	Pinacanan	880	0	61	63	123	84	74	0	880	440	100	2.0	79.5	S	Med	High	C		
	22	San Pablo Cabagan	43	San Pablo Cabagan	1,365	1,365	63	56	119	89	75						64.5	F	Med	High	B	Med	Med
	23	Tumauni	44	Tumauni	3,615	0	60	56	116	80	62	0	3,615	301	77	2.4	77.0	S	Med	Med	B	Med	Med
	24	Mahlilig	45	Mahlilig	2,419	0	81	79	161	71	79	0	2,427	485	84	2.0	76.5	S	Med	High	A	Med	Med
	25	Bagabag	46	Bagabag	2,010	0	69	75	145	86	30	0	2,160	2,010	83	2.0			Low	B	Low	Low	
MRIIS	26	MARIIS Distric I	47	MARIIS Distric I	20,904	13,648	85	84	169	84	84	85,930	21,797	232	100	2.6			High	C			
	27	MARIIS Distric II	48	MARIIS Distric II	22,676	22,676	95	93	189	91	64	16,334	22,677	218	103	0.8			Med	C			
	28	MARIIS Distric III	49	MARIIS Distric III	21,703	7,130	71	68	139	89	88	0	19,677	229	100	2.0			High	A	High	High	
	29	MARIIS Distric IV	50	MARIIS Distric IV	19,512	14,126	75	74	150	86	78	142	19,512	247	100	2.3			High	C			
III	30	Nayom-Bayto	51	Nayom																D			
			52	Bayto																D			
	31	Camiling	53	Camiling	8,229	1,290	32	83	115	86	28	4,545	6,265	272	66	2.3			Low	B	Low	Low	

Reg. No	NIS Information				NIS Information											Rating of Organization on O&M Capability								
	NISO (RC)		NIS		FUSA	IMT Area	Management Record			Average Yield	ISF C.E. Year	Debt to IA, 2004	Coverage Area	IA			NIS Functionality Survey			ISF CE Rating	Data Collection		Inventory Rating	
	No	Name	No	Name			Dry	Wet	Annual					Average Size	Membership Rate	Functionality Ave. Pts	Point	Adjective Rating	Inventory Rating		70<=High Med<70 Low<50	Class of Data Collection		Inventory Rating
(1)	(2)	(3)	(4)	(5)	(ha) (99)	(ha) (100)	(%) (101)	(%) (102)	(%) (103)	(cav./ha) (104)	(%) (105)	(Pesos) (106)	(ha) (107)	(ha) (108)	(%) (109)	(point) (110)	(point) (111)	(rating) (112)	(rating) (113)	(rating) (114)	(class) (115)	(rating) (116)	(rating) (117)	
III	32	Tarlac-San Miguel	54	Tasmoris																		D		
			55	San Miguel																		D		
			56	Bucao																		D		
			57	NEPIS (Nueva Ecija PIS)	403	0	77	88	165	77	42						65.0	F	Med	Low		D		
			58	Pampanga Delta																		D		
			59	Porac- Gumain	3,644	0	51	28	79	68	56	0	3,644	202	90	2.7				Med	A	Med	Med	
			60	Gumain																		B	X	Med
			61	Colo																		D		
			62	Caulaman																		D		
			63	Angat-Maasim	26,791	1,828	77	58	135	82	36	114,592	27,111	277	100	1.7				Low	A	Low	Low	
			64	Maasim																		A	X	Low
			65	Disalit Creek	470	0	91	75	165	69	17	0	485	243	109					Low	A	Low	Low	
UPRIIS	40	UPRIIS District I	66	UPRIIS District I	20,700	2,734	83	95	179	91	44	0		256			89.0	VS	High	Low	B	High	High	
	41	UPRIIS District II	67	UPRIIS District II													93.0	O	High		D			
	42	UPRIIS District III	68	UPRIIS District III	25,738	1,628	74	67	141	75	55	0		213			95.0	O	High	Med	C			
			69	UPRIIS District III (Vaca)																		D		
	43	UPRIIS District IV	70	UPRIIS District IV	19,924		71	80	150	64	64	164,897					93.0	O	High	Med	B	High	High	
IV	44	Cavite Friar Lands	71	Molino	8,490	0	25	50	75	76	77	0	559	186	96	2.0				High	C			
			72	Embarcadero-Baluctot																		C		
			73	Luksuhin-Makuling																		C		
			74	Pasong Kastila-Julian																		C		
			75	Bankud																		C		
			76	Butas Marcelo																		C		
			77	Plucena-Bayan																		C		
			78	Butas-Lawang Bato																		C		
			79	Navarro																		C		
			80	Matanda																		C		
			81	Balayungan																		C		
			82	Tres Cruces																		C		
			83	San Agustin-Pasong Buaya																		C		
			84	Culong-Culong																		C		
			85	Sahing																		C		
			86	Agos																		D		
	45	Agos	86	Agos																		D		
	46	Palico	87	Palico	835	0	85	82	167	84	57	0	835	278	64	0.0				Med	C			
	47	Laguna Friar Lands	88	Cabuyao PIS	2,292	0	64	62	126	70	43	0	2,292	458						Low	D			
			89	San Cristobal																		D		
			90	Diezmo PIS																		D		
			91	Macablang																		D		
			92	San Juan																		D		
	48	Sta. Maria-Mayor	93	Sta. Maria																		D		
			94	Mayor																		D		
			95	Dambo PIS																		D		
	49	Sta. Cruz-Mabacan-Balanac	96	Sta. Cruz	3,688	0	65	67	132	85	34	0	2,459	615	100	0.8				Low	A	Low	Low	
			97	Mabacan																		C		
			98	Balanac																		C		
			99	Lumban																		C		
			100	Malaunod																		C		
	50	Dumacaa-Hanagdong-Lagnas	101	Dumacaa	2,760	0	80	70	150	77	66	0	906	151	100	1.0				Med	B	Med	Med	
			102	Hanagdong																		B	X	Med
			103	Lagnas																		B	X	Med
	51	Pagbahan	104	Pagbahan	773	1,453	42	44	86	73	56	0	1,453	773	63					Med	C			
	52	Baco Bucayao-Mag-Asawang Tubig	105	Baco Bucayao	4,032	1,121	63	65	129	85	61	0	3,729	287	84					Med	Med	C		
			106	Mag-Asawang Tubig																		D		
IV	53	Amnay-Partic-Mongpong	107	Amnay-Partic	1,628	0	89	88	178	65	82	0	1,628	233		1.0				High	C			
			108	Mongpong																		D		
	54	Pula-Bansud	109	Pula									3,831	958	93	1.8				Med	D			

Reg. No	NIS Information				NIS Information										Rating of Organization on O&M Capability									
	NISO (RC)		NIS		Management Record					IA					NIS Functionality Survey			ISF CE	Data Collection		Inventory			
	No	Name	No	Name	FUSA	IMT Area	Cropping Intensity			Average Yield	ISF C.E. Year	Debt to IA, 2004	Coverage Area	Average Size	Membership Rate	Functionality Ave. Pts	Point	Adjective Rating	Inventory Rating	Rating	Class of Data Collection	Inventory Rating	Rating on Org.	
							Dry	Wet	Annual															70<=High
(1)	(2)	(3)	(4)	(5)	(ha) (99)	(ha) (100)	(%) (101)	(%) (102)	(%) (103)	(cav./ha) (104)	(%) (105)	(Pesos) (106)	(ha) (107)	(ha) (108)	(%) (109)	(point) (110)	(point) (111)	(rating) (112)	(rating) (113)	(rating) (114)	(class) (115)	(rating) (116)	(rating) (117)	
			110	Bansud																		D		
	55	Lumintao	111	Lumintao	1,021	0	123	107	230	78	73	0		1,021	80							High	C	
	56	Caguray	112	Caguray	2,205	0	17	47	64	76	73	0										High	C	
	57	Cantingas	113	Cantingas																		D		
	58	Batang-Batang-Malatgao	114	Batang-Batang	1,400	1,400	48	45	93	61	61	202,968	1,401	200	93	1.1						Med	A	Med
			115	Malatgao	3,014	0	60	80	140	50	49	0	3,014	131	86	0.0	67.4	F	Med			Low	A	Med
V	59	Daet Talisay-Matognon	116	Daet Talisay	2,541	0	89	90	178	78	81	0	2,541	282	68	0.4						High	C	
			117	Matogdon	300	0	42	51	93	80	48	0	300	300	80	2.0						Low	C	
	60	Libmanan Cabusao	118	Libmanan Cabusao PIS	2,076	0	40	20	59	55	30	0	2,076	1,038	66	1.0						Low	D	
	61	Tigman-Hinagyanan-Inarihan	119	Tigman-Hinagyanan	3,084	0	79	77	156	83	74	0	3,542	394	76	1.9						High	C	
			120	Inarihan																		D		
	62	Cagaycay	121	Cagaycay	1,577	0	86	85	171	83		0	1,576	315	71							C		
	63	Rinconada Integrated	122	Barit																		D		
			123	Rida																		D		
			124	Buhi-Lalo																		D		
	64	Mahaba-Nasasi-Ogsong-Hibiga	125	Mahaba	567	0	85	93	178	90	57	9,704	551	284	100							Med	C	
			126	Nasasi	780		89	89	177	78	27	160,748	844	390	100							Low	C	
			127	Ogsong	180	0	67	68	135	82	62	7,137	180	180	100							Med	C	
			128	Hibiga	417	0	87	87	173	81	52	67,200	417	417	100							Med	C	
	65	Pili-Bulan-San Francisco	129	San Francisco	940	0	99	100	199	88	52	0										Med	D	
			130	San Ramon																		D		
VI	66	Aklan Panakuyan	131	Aklan	3,891	0	83	83	165	73		0	3,941	358	74	1.7						A	X	Med
			132	Panakuyan	504	0	55	55	111	73		0	900	900	50	1.0						A	X	Low
	67	Sibalom-San Jose	133	Sibalom-San Jose	5,065	0	65	87	153	79	107	0	3,977	795	83	1.8						High	A	High
	68	Mambusao	134	Mambusao	1,420	0	67	66	132	67	10	0	1,574	525	98	0.0						Low	A	Low
	69	Jaluar-Suague	135	Jaluar-Proper	8,208	200	63	83	146	78	66	0	8,206	547	64	0.7						Med	A	Med
			136	Jaluar- Extension	2,144	0	82	90	172	79	66	0	2,147	358	59	0.5						Med	A	Med
			137	Suague	2,453	0	82	85	167	81	66	0	2,453	491	73	1.0						Med	A	Med
	70	Sibalom-Tigbuan	138	Sibalom-Tigbuan	2,019	0	45	79	124	79		0	2,019	404	83	1.2						A	X	Low
	71	Aganan-Sta Barbara	139	Aganan	4,467	0	44	88	132	87	47	0	3,890	486	79	1.8						Low	A	Low
			140	Sta. Barbara	3,062	0	62	82	144	91	72	0	2,341	780	78	3.3						High	A	High
	72	Barotac Viejo	141	Barotac Viejo	1,700	0	69	71	140	65	45	1,664	1,700	850	77	2.0						Low	A	Low
	73	Bago	142	Bago	13,277	0	60	67	127	81	32	107,597	12,700	747	83	0.1						Low	B	Low
	74	Pangiplan	143	Pangiplan	1,168	0	63	64	127	72	64	0	1,012	506	87	0.0						Med	A	Med
VII	75	Bohol	144	Bohol	4,387	0	59	61	120	85	55	0	4,387	337	84	1.7						Med	C	
			145	Capayas																		D		
VIII	76	Mainit-Pongso	146	Mainit	2,185	0	64	105	169	98		0	2,185	364	53							B	X	High
			147	Pongso	740	0	74	78	152	93	80	0										High	B	High
	77	Bao	148	Bao	2,185	0	82	99	182	77	50	0	2,185	364	87	1.2						Med	B	Med
	78	Binahaan-Tibak	149	Binahaan North	1,871	0	47	67	114	68	39	0	1,801	225	41							Low	C	
			150	Binahaan South	1,298	0	70	71	127	76	46	0	1,011	253	36							Low	C	
			151	Lower Binahaan	1,844	0	22	27	49	76	45	0	832	208	61							Low	C	
			152	Tibak	1,425	170	47	57	104	78	33	0	1,549	310	48							Low	C	
	79	Daguitan-Guinarona	153	Daguitan	916	0	33	71	104	79	35	0	788	158	25	1.0						Low	A	Low
			154	Guinarona	646	0	59	74	133	90	37	0	646	162	53							Low	B	Low
	80	Balire-Ibawon-Gibuga	155	Balire North	300	0	80	82	162	68	28	0	300	150	65	1.0						Low	B	Low
			156	Balire South	396	0	68	71	139	70	28	0										Low	B	Low
			157	Ibawon	281	281	94	95	189	68	20	0										Low	B	Low
			158	Gibuya	738	0	63	72	134	69	17	0	738	123	54	0.5						Low	A	Low
	81	Bito	159	Bito	1,602	0	81	86	167	79	61	0	1,602	146	67	2.1						Med	C	
VIII	82	Hindang-Hilongos-Das-Ay	160	Hindang-Hilongos	720	0	100	99	198	82	53	0	720	103	17	0.0						Med	A	Med
			161	Das-Ay	386	386	94	95	189	85	39	0	386	386	18	0.0						Low	B	Low
IX	83	Sibuguey Valley	162	Sibuguey Valley	2,641	0	66	60	125	61	56	0					87.1	VS	High			Med	B	High
	84	Dipolo-Salug	163	Dipolo	1,571	1,545	56	56	113	89	77	0	1,545	515	95	2.7						High	B	High
			164	Salug	6,485	0	87	88	175	81	78	0	6,485	590	91	2.0	91.3	O	High			High	A	High
	85	Labangan	165	Labangan	2,720	0	78	84	162	76	52	0	2,720	1,360	92	1.0	76.0	S	Med			Med	A	Med

Reg. No	NIS Information				NIS Information										Rating of Organization on O&M Capability									
	NISO (RC)		NIS		Management Record					IA					NIS Func'lity Survey			ISF CE	Data Collection		Inventory			
	No	Name	No	Name	FUSA	IMT Area	Cropping Intensity			Average Yield	ISF C.E. Year	Debt to IA, 2004	Coverage Area	Average Size	Membership Rate	Func'lity Ave. Pts	Point	Adjective Rating	Inventory Rating	Rating	Class of Data Collection	Inventory Rating	Rating on Org.	
							Dry	Wet	Annual															70<=High
(1)	(2)	(3)	(4)	(5)	(ha) (99)	(ha) (100)	(%) (101)	(%) (102)	(%) (103)	(cav./ha) (104)	(%) (105)	(Pesos) (106)	(ha) (107)	(ha) (108)	(%) (109)	(point) (110)	(point) (111)	(rating) (112)	(rating) (113)	(rating) (114)	(class) (115)	(rating) (116)	(rating) (117)	
X	86	Bubunawan	166	Bubunawan																				
	87	Manupali	167	Manupali	1,554	0	31	26	58	78	57	0	1,554	222	97	0.4						D		
	168	Pulangui-Roxas-Kuya	168	Pulangui	10,557	0	95	88	183	75	61	61,313	10,556	621	57	0.7	85.0	VS	High	Med	A	High	High	High
	169	Roxas-Kuya	169	Roxas-Kuya	806	0	80	78	159	81	83	0	806	403	80	1.0	96.0	O	High	High	A	High	High	
	89	Muleta	170	Muleta	1,614	0	26	26	53	75	85	0	1,784	255	68	1.7						D		
	90	Rugnan	171	Rugnan																				
	91	Maranding	172	Maranding	4,808	0	79	67	146	77	63	0	4,808	801	77	2.0	86.0	VS	High	Med	A	High	High	
XI	92	Lupon	173	Lupon	2,450	0	100	99	198	84		0	2,561	854	90	2.3	92.0	O	High	High	A	High	High	
	93	Batutu	174	Batutu	2,700	0	107	107	213	83	84	0	2,700	193	59	2.3	92.0	O	High	High	A	High	High	
	94	Saug-Libuganon Left	175	Saug	4,177	0	85	86	171	77	80	0	3,972	248	99	2.6	92.0	O	High	High	A	High	High	
	176	Libuganon-Left	176	Libuganon-Left	708	0	86	84	170	80	89	0	547	274	99	3.0								
	95	Lasang-Libuganon-Kipaliku	177	Lasang	4,726	0	90	89	179	72	85	255,253	2,600	236	75	2.7	100.0	O	High	High	C			
	178	Libuganon-Right	178	Libuganon-Right	7,031	0	94	94	188	65	81	24,730	6,604	150	79	3.0	100.0	O	High	High	B	High	High	
	179	Kipaliku	179	Kipaliku	2,344	0	85	86	171	68	90	45,004	1,187	148	82	3.0	100.0	O	High	High	C			
	96	Mal-Padada	180	Mal	2,635	0	82	93	175	79	83	0	2,636	176		3.0	100.0	O	High	High	A	High	High	
	181	Padada	181	Padada	2,519	0	98	98	196	111	72	0	2,122	354	77	2.7	91.0	O	High	High	A	High	High	
XII	97	Alip-Talayan	182	Alip	3,101	0	84	92	176	71	81	0	3,101	620	97	1.2								
	183	Talayan	183	Talayan	700	0	38	45	84	69	34	0	700	175	31	1.0								
	98	Maridagao	184	Maridagao																				
	99	Libungan	185	Libungan	9,168	0	79	98	177	66	59	0	9,168	437	81	2.0								
	100	Kabulan	186	Kabulan																				
	101	Kabacan-Pagalungan	187	Kabacan	4,423	0	97	97	194	76	65	0	4,423	491	56	1.6								
	188	Pagalungan	188	Pagalungan	700	0	17	29	46	45	35		700	700	18	1.0								
	102	Mlang-Malasila	189	Mlang	3,177	3,177	73	77	151	74		0	3,177			3.0								
	190	Malasila	190	Malasila	4,013	0	93	99	191	78		0	4,013	803	78	3.0								
	191	Lambayaong	191	Lambayaong	11,355	0	59	86	145	74	49	0	11,343	307	88									
	192	Dumaguil (Tacrong)	192	Dumaguil (Tacrong)	1,761	0	81	88	168	71	55	0	1,678	240	90									
	104	Allah (Allah-Banga-Marbel)	193	Allah	10,356	0	90	84	173	78	53	0	12,047	137	58	2.1								
	194	Allah-2	194	Allah-2																				
	195	Banga	195	Banga	2,554	0	99	99	198	81	82	0	2,554	116	60	1.6								
	196	Marbel-1	196	Marbel-1	1,676	0	108	108	216	81	78	0	1,856	116	73	1.5								
	197	Marbel 2	197	Marbel 2	1,676	0	95	96	191	86	87	0	1,676	129	85	1.3								
	198	Siluy-Buayan	198	Siluy	1,420	0	43	48	91	84	72	0	740	148	80	3.0								
	199	Buayan	199	Buayan																				
XIII	106	Cabadbaran-Taguibo	200	Cabadbaran-Taguibo	2,500	0	74	77	151	69	79	0	3,213	247	82	2.1	83.0	VS	High	High	A	High	High	
	107	Cantillan	201	Cantillan	1,825	0	78	82	161	78	55	0	1,825	304	96	2.5	84.0	VS	High	Med	A	High	High	
	108	Tago	202	Tago	3,716	0	62	73	135	79	70	0	3,716	169	65	2.2	84.0	VS	High	High	A	High	High	
	109	Andanan	203	Andanan	3,500	2,112	62	62	123	76	75	0	3,500	206	55	2.4	87.0	VS	High	High	A	High	High	
	110	Gibong	204	Gibong	2,841	0	47	46	92	75	76	0	2,841	316		3.2	95.0	O	High	High	B	High	High	
	111	Simulao	205	Simulao													91.0	O	High					
Total					542,729	94,635	9,406	10,105	19,494	10,925	7,913	1,329,759	418,409	53,324	9,130	186							High	40
Average					3,849	701	68	73	140	79	62	9,924	3,347	413	75	1.7							Med	35
Unit Amount (values/ha)												2											Low	24
Ratio (%)						17						77											Total	99
Max					26,791	22,676	123	108	230	111	121	255,253		2,010	109	4.0	100							
Min					157	0	4	2	46	45	10	0		103	17	0.0	65							

Table A2-8 Monthly Average River Discharge

No.	NIS Name	River Name	Catchment Area (km2)	Rainfall (mm)	Monthly River Dischege (m3/sec)												Average Seasonal River Dischege (Qr) (m3/sec)			Average Unit Runoff Discharge (m3/s/100km2)	Average Runoff Coefficient (%)
					Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	(Nov- Apr)	(May - Oct)	(Annual)		
CAR																					
1	Upper Chico -1	Chico River	1,930.0	1,437.0	58.62	54.79	52.60	52.04	49.34	76.07	81.15	83.03	99.60	94.25	88.63	89.47	66.03	80.57	73.30	3.80	83.3
2	Hapid	Hapid		1,697.5																	
3	West Apayao Abulog	West Apayao Abulog		2,420.6																	
Average			1,930.00	1,851.70	58.62	54.79	52.60	52.04	49.34	76.07	81.15	83.03	99.60	94.25	88.63	89.47	66.03	80.57	73.30	3.80	83.30
Region-I																					
4	Bonga PIS-1	Bonga River#1		1,321.9	14.03	11.84	9.85	9.59	13.81	29.01	39.83	41.06	34.30	33.57	23.49	18.57	14.56	31.93	23.25		
5	Bonga PIS-2	Bonga River#2		1,321.9	13.69	11.91	9.43	7.32	14.09	28.96	32.63	29.38	31.62	29.94	20.37	21.77	14.08	27.77	20.93		
6	Bonga PIS-3	Bonga River#3	2,479.9	1,321.9	5.54	3.14	2.04	1.26	6.62	6.26	12.97	16.76	53.59	17.50	8.44	5.70	4.35	18.95	11.65	0.47	11.2
7	Laoag Vintar	Vintar River	212.3																		
8	Nmc Pasuquin	Vintar River		1,321.9	13.69	11.91	9.43	7.32	14.09	28.96	32.63	29.38	31.62	30.34	20.44	21.84	14.11	27.84	20.97		
9	Dingras	Bonga River	932.3	1,321.9	13.69	11.91	9.43	7.32	14.09	28.96	32.63	29.37	31.62	29.94	20.37	21.77	14.08	27.77	20.93	2.24	53.5
10	Bolo	Bolo RIS		1,321.9	8.19	6.13	5.25	3.88	6.37	12.72	14.45	25.56	22.63	14.55	14.57	9.90	7.99	16.05	12.02		
11	Cura	Cura RIS		1,321.9	3.37	1.19	0.79	0.55	2.87	6.47	13.50	9.53	21.24	18.14	16.11	3.51	4.25	11.96	8.11		
12	Nueva Era	Nueva Era	59.0	1,321.9	1.37	1.23	1.47	1.27	1.67	2.51	3.48	5.03	5.70	5.75	3.28	2.13	1.79	4.02	2.91	4.93	117.6
13	Madongan Area	Madongan RIS	153.8	1,321.9	4.00	3.50	3.50	3.00	4.87	7.40	9.69	11.11	11.44	9.19	8.35	6.10	4.74	8.95	6.85	4.45	106.2
14	Solsona Area	Solsona River	79.0	1,321.9	3.56	2.33	1.36	1.02	2.95	8.19	12.41	14.06	9.86	9.09	6.37	3.82	3.08	9.43	6.25	7.91	188.8
15	Labugaon Area	Labugaon RIS	1,005.0	1,321.9	4.55	3.68	2.98	2.59	3.38	6.55	9.29	11.29	12.07	9.81	9.28	10.84	5.65	8.73	7.19	0.72	17.1
16	Papa Area	Papa RIS	51.4	1,321.9	1.54	1.54	1.32	1.22	1.27	2.67	4.31	4.71	5.23	4.65	3.17	1.89	1.78	3.81	2.79	5.43	129.6
17	Sta. Maria-Burgos	Sta. Maria-Burgos	1,500.0	1,568.6	0.21	0.10	0.04	0.03	0.07	0.42	1.17	1.69	1.92	1.18	0.74	0.31	0.24	1.08	0.66	0.04	0.9
18	Sta. Lucia- Candon	Sta. Lucia-Candon	153.0	1,584.5	0.50	0.40	0.31	0.25	0.38	0.81	1.10	1.50	1.50	1.11	0.82	0.59	0.48	1.07	0.77	0.50	10.0
19	Tagudin	Tagudin	954.0	2,187.5	2.21	1.85	1.67	1.82	2.60	4.39	5.09	5.67	5.26	3.43	2.87	2.44	2.14	4.41	3.28	0.34	4.9
20	Amburayan	Amburayan River	124.0	1,253.1	2.34	2.20	1.97	1.89	2.11	2.52	2.51	2.50	2.65	2.52	2.22	2.11	2.12	2.47	2.30	1.85	46.6
21	Ambayoan	Ambayoan RIS	60.0	1,537.5	1.63	1.40	1.00	1.19	1.14	3.13	3.75	4.38	4.78	4.83	3.00	2.33	1.76	3.67	2.71	4.52	92.8
22	Ambayoan-Extension																				
23	Dipalo	Dipalo RIS	35.0	1,824.8	0.68	0.62	0.58	0.53	0.41	0.83	1.30	1.77	1.94	2.14	1.65	1.28	0.89	1.40	1.14	3.27	56.5
24	Masalip	Aringay River	273.0	3,076.5																	
25	Lower Agno	Agno River		1,415.7	6.91	8.68	8.62	8.41	6.05	6.29	5.58	5.90	5.78	3.91	4.43	3.93	6.83	5.59	6.21		
26	San Fabian	Bued River		1,929.7																	
27	Dumuloc	Dumuloc, Cabatuan River		2,109.1																	
28	Agno	Agno River	1,225.0	1,782.3																	
29	Sinolacan	Sinolacan River	180.0																		
Average			557.45	1,570.96	5.35	4.50	3.74	3.18	5.20	9.84	12.54	13.19	15.51	12.19	8.95	7.41	5.52	11.41	8.47	2.82	64.28
Region-II																					
30	Visitacion	Visitacion	21.0																		
31	Baua	Baua River	79.0	2,044.6	4.32	3.52	3.28	3.00	2.64	2.64	3.08	3.28	3.54	4.20	4.13	4.83	3.85	3.23	3.54	4.48	69.1
32	Banurbur Creek	Banurbur Creek			14.53	12.74	13.11	12.78	14.59	14.72	18.06	24.56	28.57	28.33	19.02	16.44	14.77	21.47	18.12		
33	Magapit PIS	Magapit PIS	185.0	1,724.0																	
34	Apayao-Abulug	Apayao-Abulug River		2,420.6	0.31	0.11	0.06	0.09	0.37	0.30	0.30	0.39	0.46	0.29	0.69	0.88	0.36	0.35	0.35		
35	Pamplona	Apatao River																			
36	Dummun	Dummun River		1,025.1																	
37	Zinundungan	Zinundungan River		1,885.4																	
38	Baggao	Pared River	11.3		2.35	2.23	1.98	1.65	1.61	1.83	2.01	2.11	2.14	1.88	2.05	2.04	2.05	1.93	1.99	17.61	
39	Iguig-Alcala-Amulung PIS	Cagayan River		1,643.6																	
40	Lower Chico RIS	Chico River	1.0	1,519.8																	
41	Solana PIS	Cagayan River	144.0	2,006.8																	
42	Pinacanauan	Pinacanauan River	168.5	2,006.8																	
43	San Pablo Cabagan	Pinacanauan San Pablo River	541.3	2,138.9																	
44	Tumauni	Pinacanauan de Tumauni		365.1	17.67	13.73	13.47	21.01	27.54	34.00	37.52	37.55	38.23	53.43	41.57	29.45	22.82	38.05	30.43		
45	Mallig	Mallig River		1,725.7	10.57	6.33	4.96	5.71	8.12	12.54	20.24	26.72	29.57	32.02	22.51	17.30	11.23	21.53	16.38		
46	Bagabag	Magat River		1,722.2																	
Average:			143.89	1,709.89	8.29	6.44	6.14	7.37	9.15	11.01	13.54	15.77	17.09	20.02	15.00	11.82	9.18	14.43	11.80	11.05	69.10

No.	NIS Name	River Name	Catchment Area (km2)	Rainfall (mm)	Monthly River Dischege (m3/sec)												Average Seasonal River Dischege (Qr) (m3/sec)			Average Unit Runoff Discharge (m3/s/100km2)	Average Runoff Coefficient (%)
					Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	(Nov- Apr)	(May - Oct)	(Annual)		
Region-VII																					
144	Bohol	Wahig-Pamacalan River	138.0																		
145																					
Average			138.00	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
Region-VIII																					
146	Mainit-Pongso	Mainit River	277.3	2,247.3	7.67	8.21	7.20	5.13	5.26	4.87	4.32	3.83	4.39	6.28	8.67	9.30	7.70	4.83	6.26	2.26	31.7
147		Pongso River		3,086.1																	
148	Bao	Bao River	64.0	2,273.8																	
149	Binahaan-Tibak		111.0	3,623.0																	
150		Binahaan River	37.0	3,623.0	16.02	13.95	11.47	15.06	9.01	7.26	7.72	8.08	7.45	9.99	12.50	11.69	13.45	8.25	10.85	29.32	
151		Cand-is Creek	15.6	3,623.0																	
152		Tibak Creek	143.0	3,080.6	1.93	1.35	0.98	0.78	0.64	0.45	0.48	0.38	0.41	0.58	1.16	1.84	1.34	0.49	0.92	0.64	6.6
153	Daguitan- Guirona	Daguitan River	25.7	2,529.5	11.64	12.14	10.62	8.41	9.94	7.06	7.57	6.48	6.79	9.02	12.35	12.66	11.30	7.81	9.56		
154		Guirona River	17.0	2,192.9	3.29	2.90	2.58	3.78	2.01	1.54	1.71	1.74	1.55	2.13	2.60	2.46	2.94	1.78	2.36	13.87	
155	Balire-Ibawon- Gibuga	Balire River	20.0	3,775.4	2.18	1.88	1.71	2.50	1.33	1.02	1.13	1.15	1.03	1.41	1.72	1.63	1.94	1.18	1.56	7.79	65.0
156		Ibawon River	38.0	3,775.4	4.86	4.21	3.81	5.59	2.98	2.29	2.52	2.57	2.30	3.16	3.85	3.64	4.33	2.64	3.48	9.16	76.5
157		Gibuga River	62.0	3,775.4	7.93	6.87	6.22	9.12	4.86	3.73	4.12	4.19	3.74	5.15	6.29	5.95	7.06	4.30	5.68	9.16	76.5
158			63.0	2,906.9																	
159	Bito	Bito River	72.0	2,906.9	52.44	9.61	22.06	9.58	14.07	5.60	5.54	5.47	3.84	4.44	9.31	18.90	20.32	6.49	13.41	18.62	
160	Hindang-Hilongod- Das-Ay	Salog River	62.0		0.36	0.45	0.29	0.27	0.30	0.34	0.40	0.46	0.32	0.23	0.41	0.31	0.35	0.35	0.35	0.56	
161		Das-ay River		1,068.4	11.29	10.17	5.30	3.64	3.41	3.37	3.27	1.89	1.97	3.05	8.35	9.30	8.01	2.83	5.42		
Average			71.97	2,965.84	10.87	6.52	6.57	5.81	4.89	3.41	3.53	3.29	3.07	4.13	6.11	7.06	7.16	3.72	5.44		51.26
Region-IX																					
162	Sibuguey Valley	Sibuguey River	250.0	3,026.1	6.95	5.28	4.43	4.78	7.68	13.36	16.99	19.32	15.14	10.99	8.28	6.93	6.11	13.91	10.01	4.00	41.7
163	Salug-Dipolo	Dipolo River	65.1	1,159.2	0.48	0.45	0.24	0.10	0.77	0.62	0.59	0.58	0.48	0.78	0.47	0.38	0.35	0.64	0.50	0.76	20.7
164		Salug Daku River	341.0	1,525.1	18.30	18.87	20.03	21.32	32.74	37.94	34.76	35.28	37.27	37.41	29.11	21.90	21.59	35.90	28.74	8.43	
165	Labangan	Labangan River	430.0	1,550.2	13.31	10.33	8.27	13.87	28.15	42.36	52.19	59.79	63.46	53.83	40.58	21.62	18.00	49.96	33.98	7.90	
Average			271.53	1,815.15	9.76	8.73	8.24	10.02	17.34	23.57	26.13	28.74	29.09	25.75	19.61	12.71	11.51	25.10	18.31	7.35	48.32
Region-X																					
166	Bubunawan																				
167	Manupali	Manupali River	454.3	1,912.3	8.14	7.39	5.99	5.49	10.48	7.68	8.25	7.76	8.17	11.56	8.23	7.78	7.17	8.98	8.08	1.78	29.3
168	Pulangui-Roxas- Kuya	Pulangui River,	1,340.0	1,522.9	60.2	56.9	48.9	37.4	56.3	46.9	43.3	42.3	39.7	45.7	41.3	53.1	49.6	45.7	47.7	3.56	73.6
169		Maramag & Kuya River		2,061.8	2.48	2.48	2.43	2.30	2.27	2.23	2.41	2.36	2.41	2.60	2.82	2.42	2.49	2.38	2.43		
170	Muleta	Muleta River	222.0	2,061.8																	
171	Rugnan																				
172	Maranding	Salug River	100.0	885.5	14.29	13.68	12.21	12.12	12.36	13.87	14.68	15.52	15.02	14.66	14.94	14.32	13.59	14.35	13.97		
Average			529.08	1,688.86	21.28	20.11	17.37	14.34	20.34	17.67	17.17	16.98	16.32	18.64	16.81	19.40	18.22	17.85	18.03	2.67	51.45
Region-XI																					
173	Lupon	Sumlog River	40.0	843.8	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	14.20	0.01	2.38	0.01	1.19	2.98	111.4
174	Batutu	Batuto River	443.0	2,390.3	15.23	12.20	14.10	19.40	12.10	12.41	11.44	11.20	12.05	11.05	11.06	10.87	13.81	11.71	12.76	2.88	38.0
175	Saug-Libuganon Left	Saug River	660.0	2,147.8	24.38	26.54	86.46	11.63	13.86	17.83	17.76	16.79	19.51	18.40	14.81	21.55	30.90	17.36	24.13	3.66	53.7
176		Saug River	660.0																		
177	Lasang-Libuganon-Kipaliku	Lasang River	3,780.0	1,627.0																	
178		Libuganon River	9,497.4	1,060.1																	
179		Kipaliku River	2,372.6	1,959.9																	
180	Mal-Padada	Mal River	152.0	1,508.0	2.88	2.86	2.85	2.42	3.35	3.94	4.58	4.67	4.43	3.79	3.32	3.17	2.92	4.13	3.52	2.32	48.5
181		Padada River	364.0	934.1	6.38	6.66	6.91	6.31	6.79	7.19	7.45	7.14	7.45	7.23	6.71	6.84	6.64	7.21	6.92	1.90	64.2
Average			1,996.56	1,558.88	9.78	9.65	22.07	7.95	7.22	8.28	8.25	7.96	8.69	8.10	10.02	8.49	11.33	8.08	9.70	2.75	63.16

No.	NIS Name	River Name	Catchment Area (km2)	Rainfall (mm)	Monthly River Dischege (m3/sec)												Average Seasonal River Dischege (Qr) (m3/sec)			Average Unit Runoff Discharge (m3/s/100km2)	Average Runoff Coefficient (%)
					Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	(Nov- Apr)	(May - Oct)	(Annual)		
Region-XII																					
182	Alip-Talayan	Alip River	365.0	1,167.0	4.03	3.95	2.98	2.96	3.38	3.92	4.32	3.48	3.36	3.36	3.79	4.04	3.63	3.64	3.63	0.99	26.9
183		Talayan River	290.0	1,856.2																	
184	Maridagao			1,856.0																	
185	Libungan	Libungan River	5.2	859.2	16.68	14.66	9.99	14.68	20.96	31.33	27.94	26.90	27.86	33.37	34.15	21.97	18.69	28.06	23.37		
186	Kabulnan			2,891.9																	
187	Kabacan- Pagalungan	Kabacan River	10.0	1,490.4	4.69	4.38	3.88	3.27	2.57	2.18	3.65	4.09	3.57	3.90	2.95	3.21	3.73	3.33	3.53		
188		Kabacan River		1,514.3																	
189	Mlang-Malasila	Mlang River	6,752.0	1,588.4	4.98	3.82	3.23	4.36	4.64	6.23	6.93	6.01	6.22	6.31	6.50	4.82	4.62	6.06	5.34		
190		Malasila River		1,286.7	5.94	4.05	4.05	4.39	4.63	6.47	7.04	7.52	6.84	7.75	6.82	5.70	5.16	6.71	5.93		
191	Lambayong- Tacurong	Lambayong River	527.5	1,413.6	13.94	10.90	8.25	7.24	10.64	20.50	21.65	30.46	27.03	27.64	20.73	20.97	13.67	22.99	18.33	3.47	77.5
192		Banga-Kapingkong River	482.5	1,394.8	13.24	10.35	7.84	7.05	10.11	19.48	20.57	28.94	25.68	25.23	19.44	19.92	12.97	21.67	17.32	3.59	81.2
193	Allah-Banga- Marbel	Allah River	936.0	416.2																	
194				417.3																	
195		Banga River	307.0	2,281.7	4.93	4.20	4.28	4.22	4.98	5.41	5.61	4.71	5.20	5.40	5.36	4.84	4.64	5.22	4.93	1.61	22.2
196		Marbel River	290.0	1,218.3	2.69	2.56	2.36	2.65	2.79	3.04	3.09	2.80	2.94	2.97	2.94	2.78	2.66	2.94	2.80	0.97	25.0
197		Marbel and Taplan river	468.0	1,221.3																	
198	Siluay-Buayan	Siluay/Klinan River	553.0	1,292.7	2.54	2.43	2.27	1.00	2.42	2.56	2.60	2.49	2.53	2.44	2.52	2.30	2.18	2.51	2.34	0.42	10.3
199		Buayan- Tinanagacan	107.0	829.4	0.50	0.56	0.58	0.57	0.58	0.64	0.59	0.55	0.54	0.57	0.64	0.57	0.57	0.58	0.57	0.54	20.4
Average			853.32	1,388.63	6.74	5.62	4.52	4.76	6.15	9.25	9.45	10.72	10.16	10.81	9.62	8.28	6.59	9.43	8.01	1.66	37.64
Region-XIII																					
200	Cabadbaran- Taguibo	Cabadbaran River	298.8	1,876.1	8.42	11.67	5.31	4.58	4.08	5.13	4.59	3.73	4.81	3.79	6.76	10.37	7.85	4.36	6.10	2.04	34.3
201	Cantillan	Carac-an River	2.0	3,778.7	2.67	1.99	1.25	1.05	1.76	2.21	1.17	1.49	1.33	1.75	2.69	4.69	2.39	1.62	2.00		
202	Tago	Tago River	650.0	3,593.4	0.12	0.10	0.07	0.03	0.03	0.03	0.02	0.01	0.02	0.03	0.06	0.10	0.08	0.02	0.05		
203	Andanan	Andanan River	200.0	1,784.9	22.24	19.94	18.83	13.51	23.80	33.98	36.40	32.16	23.10	11.28	15.90	18.89	18.22	26.79	22.50		
204	Gibong	Gibong River		2,697.1	15.41	15.86	12.86	8.88	6.60	7.86	7.75	7.37	7.03	6.18	8.43	9.60	11.84	7.13	9.49		
205	Simulao	Simulao River		3,214.7	6.00	6.98	5.77	8.66	5.19	3.99	3.70	3.77	8.09	4.01	4.43	5.24	6.18	4.79	5.49		
Average			287.70	2,824.15	9.14	9.42	7.35	6.12	6.91	8.87	8.94	8.09	7.40	4.51	6.38	8.15	7.76	7.45	7.61	2.04	34.30

Table A2-9 Monthly Average Diverted Intake Discharge

No.	NIS Name	River Name	Average Irrigated Area (ha)		Monthly Diverted Intake Dischege (m3/sec)												Average Diverted Intake Dischege (Qa) (m3/sec)			Average Unit Diverted Intake Discharge (lit/sec/ha)		
			Dry S.	Wet S.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	(Nov- Apr)	(May - Oct)	(Annual)	(Nov- Apr)	(May - Oct)	(Annual)
CAR																						
1	Upper Chico -1	Chico River	10,013	9,939	19.90	18.70	17.23	15.54	10.32	6.94	18.07	21.69	19.92	19.13	17.46	18.85	17.95	16.01	16.98	1.79	1.61	1.70
2	Hapid	Hapid	1,200	1,200																		
3	West Apayao Abulog	West Apayao Abulog	2,388	2,360																		
Average			4,534	4,500	19.90	18.70	17.23	15.54	10.32	6.94	18.07	21.69	19.92	19.13	17.46	18.85	17.95	16.01	16.98	1.79	1.61	1.70
Region-I																						
4	Bonga PIS-1	Bonga River#1	170	170	0.11	0.13	0.12	0.09	0.02	0.02	0.09	0.09	0.09	0.07	0.01	0.02	0.08	0.06	0.07	0.47	0.37	0.42
5	Bonga PIS-2	Bonga River#2	0	370	0.08	0.17	0.16	0.12	0.05	0.03	0.08	0.10	0.09	0.08	0.02	0.01	0.09	0.07	0.08			
6	Bonga PIS-3	Bonga River#3	130	135	0.10	0.11	0.09	0.02	0.08	0.02	0.09	0.06	0.06	0.04	0.02	0.06	0.07	0.06	0.06	0.51	0.43	0.47
7	Laoag Vintar	Vintar River	1,800	2,100	2.35	1.86	1.34	0.60	0.16	1.84	2.34	2.36	2.34	2.27	1.95	2.34	1.74	1.89	1.81	0.97	0.90	0.93
8	Nmc Pasuquin	Vintar River	472	653	1.14	0.87	0.69	0.11	0.07	0.92	0.90	0.94	0.92	0.59	0.73	0.96	0.75	0.72	0.74	1.59	1.11	1.31
9	Dingras	Bonga River	770	984	1.14	1.01	0.76	0.26	0.15	0.88	0.91	0.87	0.85	0.68	0.78	0.93	0.81	0.72	0.77	1.06	0.74	0.88
10	Bolo	Bolo RIS	375	390	0.88	1.00	0.84	0.30	0.18	0.75	0.95	0.90	0.76	0.50	0.73	0.80	0.76	0.67	0.72	2.02	1.73	1.87
11	Cura	Cura RIS	315	550	0.49	0.45	0.39	0.12	0.08	0.57	0.68	0.68	0.67	0.55	0.37	0.44	0.38	0.54	0.46	1.20	0.98	1.06
12	Nueva Era	Nueva Era	184	308	0.43	0.35	0.24	0	0.17	0.19	0.21	0.27	0.26	0.11	0.09	0.17	0.21	0.20	0.21	1.16	0.65	0.84
13	Madongan Area	Madongan RIS	407	740	3.53	3.38	1.32		1.43	3.08	3.01	3.22	2.53	2.78	2.92	3.86	2.50	2.68	2.82	6.15	3.61	4.92
14	Solsona Area	Solsona River	102	258						0.01	0.01	0.01	0.01	0.01	0.01		0.00	0.01	0.01	0.02	0.04	0.06
15	Labugaon Area	Labugaon RIS	763	1,182	4.50	3.45	2.91	2.56	3.20	5.49	8.21	11.23	12.14	9.86	9.86	7.68	5.16	8.36	6.76	6.76	7.07	6.95
16	Papa Area	Papa RIS	137	420	1.84	1.45	0.31		1.05	1.86	1.65	1.64	1.96	1.36	1.60	1.61	1.14	1.59	1.48	8.28	3.78	5.33
17	Sta. Maria-Burgos	Sta. Maria-Burgos	40	547	0.15	0.08	0.03			0.04	0.43	0.61	0.65	0.71	0.31	0.23	0.13	0.49	0.32	3.33	0.89	1.10
18	Sta. Lucia- Candon	Sta. Lucia-Candon	259	1,433	0.30	0.22	0.15	0.08	0.07	0.44	0.63	0.70	0.65	0.70	0.58	0.41	0.29	0.53	0.41	1.12	0.37	0.49
19	Tagudin	Tagudin	1,083	1,227	0.94	0.64	0.35	0.16	0.50	1.37	1.54	1.39	1.12	1.14	1.22	1.01	0.72	1.18	0.95	0.66	0.96	0.82
20	Amburayan	Amburayan River	2,153	2,616	0.23	0.24	0.21	0.15	0.07	0.15	0.15	0.17	0.20	0.15	0.08	0.12	0.17	0.15	0.16	0.08	0.06	0.07
21	Ambayoan	Ambayoan RIS	932	1,700	0.79	0.73	0.49	0.11		0.50	1.01	1.19	1.26	1.38	1.08	0.77	0.66	1.07	0.85	0.71	0.63	0.64
22	Ambayoan-Extension																					
23	Dipalo	Dipalo RIS	197	1,500	0.56	0.52	0.47	0.31	0.27	0.70	0.85	0.86	0.94	0.96	0.81	0.67	0.56	0.76	0.66	2.82	0.51	0.78
24	Masalip	Aringay River	1,183	1,200	1.08	0.94	0.53	0.10		1.31	0.93	0.79	0.72	0.44	1.52	1.59	0.96	0.84	0.90	0.81	0.70	0.76
25	Lower Agno	Agno River	2,928	3,660	4.85	5.36	4.94	3.03	0.76	3.11	4.29	4.76	4.25	3.37	1.39	2.90	3.75	3.42	3.58	1.28	0.94	1.09
26	San Fabian	Bued River	1,008	1,554	1.49	1.20	0.69	0.19	0.06	0.54	2.54	2.76	2.61	2.18	1.88	1.56	1.17	1.78	1.48	1.16	1.15	1.15
27	Dumuloc	Dumuloc, Cabatuan River	510	897	0.45	0.39	0.29	0.20	0.28	0.58	0.90	0.91	1.00	0.75	0.90	0.81	0.51	0.74	0.62	0.99	0.82	0.88
28	Agno	Agno River	4,460	4,615																		
29	Sinolacan	Sinolacan River	1,500																			
Average			875	1,217	1.25	1.12	0.79	0.45	0.46	1.06	1.41	1.59	1.57	1.33	1.25	1.32	0.98	1.24	1.13	1.96	1.24	1.45
Region-II																						
30	Visitacion	Visitacion																				
31	Baua	Baua River	875	1,201	3.96	3.28	3.10	2.88	2.52	2.44	2.84	2.95	3.23	3.66	3.56	4.20	3.50	2.94	3.22	4.00	2.45	3.10
32	Banurbur Creek	Banurbur Creek	1,479	1,180	0.99	0.82	0.62	0.42	0.58	0.89	0.96	0.98	0.96	0.75	0.84	1.02	0.79	0.85	0.82	0.53	0.72	0.62
33	Magapit PIS	Magapit PIS	8,949	4,677	47.76	63.59	96.15	49.05	28.86	75.79	58.68	47.69	41.12	3.58	3.66	34.90	49.19	42.62	45.90	5.50	9.11	6.74
34	Apayao-Abulug	Apayao-Abulog River	5,612	5,245	3.83	4.43	3.72	1.25	2.95	4.19	4.70	4.32	3.48	0.29	2.48	3.06	3.13	3.32	3.23	0.56	0.63	0.59
35	Pamplona	Apatao River			3.83	4.43	3.72	1.25	2.95	4.19	4.70	4.32	3.48	0.29	2.48	3.06	3.13	3.32	3.23			
36	Dummun	Dummun River	1,232	691	1.44	1.70	1.64	1.03	1.07	1.25	1.34	1.41	1.28	0.83	1.16	1.36	1.39	1.20	1.29	1.13	1.73	1.34
37	Zinundungan	Zinundungan River	1,850	1,630																		
38	Baggao	Pared River	710	710																		
39	Iguig-Alcala-Amulung PIS	Cagayan River	1,505	1,525																		
40	Lower Chico RIS	Chico River	1,337	1,278	1.89	1.89	1.58	1.69	1.72	1.43	1.66	1.56	2.24	1.43	1.60	3.07	1.95	1.67	1.81	1.46	1.31	1.39
41	Solana PIS	Cagayan River	1,712	1,735																		
42	Pinacanauan	Pinacanauan River	577	577																		
43	San Pablo Cabagan	Pinacanauan San Pablo River	905	840	5.22	4.95	5.08	5.14	4.78	4.96	5.21	5.23	5.86	5.68	5.41	5.46	5.21	5.29	5.25	5.76	6.29	6.02
44	Tumauni	Pinacanauan de Tumauni	2,405	2,110	1.98	2.01	1.74	0.61	0.32	1.19	1.84	1.76	1.77	1.63	1.67	1.60	1.60	1.42	1.51	0.67	0.67	0.67
45	Mallig	Mallig River	1,910	1,813	2.34	2.43	1.85		2.29	2.34	2.67	2.68	1.34		2.24	1.91	1.80	2.26	2.21	0.94	1.25	1.19
46	Bagabag	Magat River	1,339	1,350	0.67		1.63	2.37	2.39	1.32	0.18	1.14	1.66	1.14	0.59	0.26	0.92	1.31	1.21	0.69	0.97	0.90
Average:			2,160	1,771	6.72	8.95	10.98	6.57	4.58	9.09	7.71	6.73	6.04	1.93	2.34	5.45	6.60	6.02	6.33	2.12	2.51	2.26

No.	NIS Name	River Name	Average Irrigated Area (ha)		Monthly Diverted Intake Dischege (m3/sec)												Average Diverted Intake Dischege (Qa) (m3/sec)			Average Unit Diverted Intake Discharge (lit/sec/ha)		
			Dry S.	Wet S.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	(Nov- Apr)	(May - Oct)	(Annual)	(Nov- Apr)	(May - Oct)	(Annual)
95	Dambo PIS																					
96	Sta. Cruz		1,986	2011	4.07	2.66	2.33	1.97	1.67	1.97	3.81	2.87	3.85	4.30	4.65	4.79	3.41	3.08	3.25	1.72	1.53	1.62
97	Mabacan		220	270																		
98	Balanac		950	850																		
99	Lumban		50	35																		
100	Malaunod		164	160																		
101	Dumacaa	Dumacaa River	1,456	1,593	2.15	2.09	1.86	1.57	1.39	1.69	1.82	1.77	1.75	1.62	1.95	1.88	1.92	1.67	1.79	1.32	1.05	1.18
102	Hanagdong	Hanagdong River	280	280	0.23	0.23	0.20	0.20	0.22	0.23	0.25	0.22	0.21	0.22	0.29	0.22	0.23	0.23	0.23	0.81	0.80	0.81
103	Lagnas	Lagnas River	618	621	0.50	0.58	0.50	0.51	0.55	0.58	0.61	0.57	0.59	0.65	0.62	0.58	0.55	0.59	0.57	0.89	0.95	0.92
104	Pagbahan	Pagbahan River	771	670																		
105	Baco Bucayao		3,649	3,492																		
106	Mag-Asawang Tubig																					
107	Amnay-Patric	Patrick River	1,339	1,350	1.20	1.14	1.10	0.84	0.31	0.85	0.75	1.01	1.51	1.39	0.85	1.29	1.07	0.97	1.02	0.80	0.72	0.76
108	Mongpong	Mongpong River																				
109	Pula	Pula River																				
110	Bansud																					
111	Lumintao		750	850																		
112	Caguray	Caguray River	350	1,600																		
113	Cantingas	Cantingas River	284	284																		
114	Batang-Batang	Batang-Batang River	1,255	1,497	3.05	3.09	2.90	2.67		2.91	2.96	3.08	3.29	3.34	3.37	3.19	3.05	3.05	3.08	2.43	2.03	2.24
115	Malatgao	Malatgao River	2,500	3,014	3.56	3.18	2.74	2.33		4.30	4.67	4.38	4.85	5.11	5.10	4.77	3.61	3.61	4.09	1.45	1.20	1.48
Average			973	1,067	1.90	1.70	1.53	1.25	0.86	1.77	1.97	1.81	1.94	2.14	2.02	1.94	1.72	1.71	1.77	1.26	1.19	1.24
Region-V																						
116	Daet Talisay-Matogdon	Daet River																				
117		Matogdon River																				
118	Libmanan- Cabusao		1,018	0																		
119	Tigman-Hinagyanan-Inarihan	Hinagyanan River																				
120		Inarihan River																				
121	Cagaycay																					
122	Rinconada Integrated																					
123																						
124																						
125	Mahaba-Nasisi-Ogsong-Hibiga																					
126																						
127																						
128																						
129	Pili-Bulan-San Francisco																					
130																						
Average			1,018	0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Region-VI																						
131	Aklan- Panakuyan	East Side River	2,000	2,266	1.46	1.30	0.86	1.38	1.80	1.43	1.40	1.46	1.35	1.36	1.58	1.49	1.35	1.47	1.41	0.67	0.65	0.66
132		Panakuyan River	300	504	0.34	0.29	0.02		0.63	0.40	0.36	0.46	0.32	0.50	0.44	0.43	0.25	0.45	0.38	0.84	0.88	0.95
133	Sibalom-San Jose	Tipulan River	3,152	3,581	0.61	0.39	0.22	0.25	0.27	0.50	0.39	0.19	0.18	0.47	0.54	0.53	0.25	0.45	0.38	0.08	0.12	0.11
134	Mambusao	Mambusao River	987	1,019	0.80	1.04	0.56	0.55	1.02	0.98	0.97	0.69	0.62	0.51	0.47	0.45	0.65	0.80	0.72	0.65	0.78	0.72
135	Jaluar-Suague	Jaluar River	4,724	8,212	10.67	8.34	7.28	6.89	7.69	11.12	12.05	10.68	10.57	10.69	10.61	10.00	8.97	10.47	9.72	1.90	1.27	1.50
136		Jaluar River	2,086	2,128	1.57	1.38	1.22	1.38	1.52	2.00	1.99	1.83	2.02	2.00	1.98	1.95	1.58	1.89	1.74	0.76	0.89	0.82
137		Suague River	1,971	2,453	1.96	2.10	1.20	1.32	2.39	3.08	2.68	2.72	3.15	2.77	2.71	2.20	1.92	2.80	2.36	0.97	1.14	1.07
138	Sibalom-Tigbuan	Sibalom River	1,000	1,850	1.00				1.00	1.43	2.61	2.92	2.26	2.02	2.10	0.87	0.66	2.04	1.80	0.66	1.10	1.26
139	Aganan- Sta Barbara	Aganan River	2,211	4,284	0.55	0.35	0.18	0.18	1.02	1.71	1.66	1.66	2.03	2.06	1.68	1.08	0.67	1.69	1.18	0.30	0.39	0.36
140		Tigum River	2,579	2,704	1.23	0.56	0.09		1.35	2.23	2.09	2.12	2.38	2.74	2.30	2.00	1.03	2.15	1.74	0.40	0.80	0.66
141	Barotac Viejo	Barotac Viejo River	974	1,161	0.82	0.51	0.27	0.05	0.34	1.35	1.53	1.51	1.53	1.25	1.34	1.12	0.69	1.25	0.97	0.70	1.08	0.91
142	Bago	Bago River	6,810	8,252																		
143	Pangiplan	Pangiplan River	1,012	1,012	1.20	1.09	0.88	0.70	0.91	0.82	0.56	0.71	0.76	0.89	1.03	1.85	1.13	0.78	0.95	1.11	0.77	0.94
Average			2,293	3,033	1.85	1.58	1.16	1.41	1.66	2.25	2.36	2.25	2.26	2.27	2.23	2.00	1.59	2.19	1.94	0.75	0.82	0.83

No.	NIS Name	River Name	Average Irrigated Area (ha)		Monthly Diverted Intake Dischege (m3/sec)												Average Diverted Intake Dischege (Qa) (m3/sec)			Average Unit Diverted Intake Discharge (lit/sec/ha)		
			Dry S.	Wet S.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	(Nov- Apr)	(May - Oct)	(Annual)	(Nov- Apr)	(May - Oct)	(Annual)
Region-VII																						
144	Bohol	Wahig-Pamacsalan River	2,383	2,962	3.45	3.59	2.80	1.69	1.55	2.55	3.07	3.45	3.29	3.59	2.86	2.88	2.88	2.92	2.90	1.21	0.98	1.08
145																						
Average			2,383	2,962	3.45	3.59	2.80	1.69	1.55	2.55	3.07	3.45	3.29	3.59	2.86	2.88	2.88	2.92	2.90	1.21	0.98	1.08
Region-VIII																						
146	Mainit-Pongso	Mainit River	1,601	1,826	3.10	2.59	2.21		1.50	3.84	3.87	3.66	2.17			3.28	1.86	3.01	2.91	1.16	1.65	1.70
147		Pongso River	608	640	1.01	0.84	0.74	0.47	0.87	0.98	1.19	1.07	0.93	0.71	0.88	0.71	0.78	0.96	0.87	1.27	1.50	1.39
148	Bao	Bao River	2,035	2,120	3.08	3.13	3.04	2.96	1.23	1.58	2.58	3.29	2.30	1.98	0.70	2.65	2.59	2.16	2.38	1.27	1.02	1.14
149	Binahaan-Tibak		1,151	1,285																		
150		Binahaan River	1,001	1,020																		
151		Cand-is Creek	362	504																		
152		Tibak Creek	1,086	1,193																		
153	Daguitan- Guirona	Daguitan River	520	748	2.56	2.79	2.77	2.84														
154		Guirona River	300	601	1.57	2.10	1.22	1.15	1.96	1.90	1.54	1.18	1.64	1.84	2.41	2.04	1.75	1.68	1.71	5.83	2.79	3.80
155	Balire-Ibawon- Gibuga	Balire River	245	245																		
156		Ibawon River	230	274																		
157		Gibuga River	236	278																		
158			263	387																		
159	Bito	Bito River	1,199	1,484	2.48	2.07	2.94	2.37	2.55	2.73	2.94	2.94			2.77	3.00	2.61	2.79	2.68	2.17	1.88	2.00
160	Hindang-Hilongod- Das-Ay	Salog River	697	696	0.36	0.45	0.29	0.27	0.30	0.34	0.40	0.46	0.32	0.23	0.41	0.31	0.35	0.35	0.35	0.50	0.50	0.50
161		Das-ay River	386	360																		
Average			745	854	2.02	2.00	1.89	1.68	1.40	1.90	2.09	2.10	1.47	1.19	1.43	2.00	1.66	1.82	1.82	2.03	1.56	1.76
Region-IX																						
162	Sibuguey Valley	Sibuguey River	2,256	2,292																		
163	Salug-Dipolo	Dipolo River	1,042	1,064																		
164		Salug Daku River	6,400	6,408	2.26	2.26	1.75	0.18	2.49	2.26	2.26	2.26	1.75	0.22	2.49	2.26	1.87	1.87	1.87	0.29	0.29	0.29
165	Labangan	Labangan River	2,418	2,720	1.61	1.32	0.62	1.85	1.72	0.96	1.14	0.70	1.89	1.92	1.44	1.83	1.45	1.39	1.42	0.60	0.51	0.55
Average			3,029	3,121	1.94	1.79	1.18	1.02	2.11	1.61	1.70	1.48	1.82	1.07	1.97	2.05	1.66	1.63	1.64	1.90	1.25	1.48
Region-X																						
166	Bubunawan																					
167	Manupali	Manupali River	1,378	1,201	3.53	3.28	3.51	3.10	3.36	3.76	4.01	4.07	3.93	3.96	4.13	7.07	4.10	3.85	3.98	2.98	3.20	3.08
168	Pulangui-Roxas- Kuya	Pulangui River, Maapag creek, Laligan River Kulaman River	9,790	9,810	20.94	21.03	19.33	11.41	19.81	20.41	21.61	20.76	20.17	20.95	22.17	22.08	19.5	20.6	20.1	1.99	2.10	2.05
169		Maramag & Kuya River	780	793	2.01	1.90	1.78	1.08	1.16	1.23	1.47	1.70	1.64	1.77	1.93	1.76	1.74	1.50	1.62	2.23	1.89	2.06
170	Muleta	Muleta River	1,431	1,470	3.38	3.79	2.43	2.43	3.41	3.53	4.13	3.68	3.43	3.10	3.14	3.62	3.13	3.55	3.34	2.19	2.41	2.30
171	Rugnan																					
172	Maranding	Salug River	4,416	4,150	14.29	13.68	12.21	12.12	12.36	13.87	14.68	15.52	15.02	14.66	14.94	14.32	13.59	14.35	13.97	3.08	3.46	3.26
Average			3,559	3,485	8.83	8.74	7.85	6.03	8.02	8.56	9.18	9.15	8.84	8.89	9.26	9.77	8.41	8.77	8.59	2.49	2.61	2.55
Region-XI																						
173	Lupon	Sumlog River	2,450	2,450	3.11	3.44	3.25	1.42	0.40	2.15	2.66	2.17	2.30	1.07	0.60	2.07	2.32	1.79	2.05	0.94	0.73	0.84
174	Batutu	Batuto River	2,685	2,670	4.57	4.85	4.26	2.35	3.56	4.72	4.72	4.71	4.01	2.29	4.27	4.35	4.11	4.00	4.06	1.53	1.50	1.51
175	Saug-Libuganon Left	Saug River	4,165	4,390	3.26	3.16	3.57	3.09	3.66	3.76	3.89	3.68	3.44	2.55	4.07	4.17	3.55	3.50	3.52	0.85	0.80	0.82
176		Saug River	600	666	3.26	3.16	3.57	3.09	3.66	3.76	3.89	3.68	3.44	2.55	4.07	4.17	3.55	3.50	3.52	5.92	5.25	5.57
177	Lasang-Libuganon-Kipaliku	Lasang River	4,694	4,726	5.13	4.58	2.79	2.28	4.02	5.30	5.64	4.81	3.89	2.38	3.15	4.88	3.80	4.34	4.07	0.81	0.92	0.86
178		Libuganon River	7,036	7,031	9.52	9.13	7.71	7.53	8.11	9.54	10.50	10.76	9.26	8.58	9.65	10.50	9.01	9.46	9.23	1.28	1.35	1.31
179		Kipaliku River	2,917	2,344	2.38	2.46	2.32	1.53	1.77	2.07	2.74	2.72	2.61	1.98	2.52	2.95	2.36	2.32	2.34	1.02	0.99	1.00
180	Mal-Padada	Mal River	2,343	2,555	2.85	2.73	2.71	2.34	3.23	3.83	4.23	3.97	3.93	3.71	3.15	3.12	2.82	3.82	3.32	1.20	1.49	1.35
181		Padada River	2,500	2,508	2.84	2.77	2.60	0.68	1.35	3.54	3.36	3.18	2.68	0.90	2.73	3.14	2.46	2.50	2.48	0.98	1.00	0.99
Average			3,199	3,260	4.10	4.03	3.64	2.70	3.31	4.30	4.63	4.41	3.95	2.89	3.80	4.37	3.77	3.91	3.84	1.61	1.56	1.58

No.	NIS Name	River Name	Average Irrigated Area (ha)		Monthly Diverted Intake Dischege (m3/sec)												Average Diverted Intake Dischege (Qa) (m3/sec)			Average Unit Diverted Intake Discharge (lit/sec/ha)		
			Dry S.	Wet S.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	(Nov- Apr)	(May - Oct)	(Annual)	(Nov- Apr)	(May - Oct)	(Annual)
Region-XII																						
182	Alip-Talayan	Alip River	2,819	3,101	2.98	2.38	2.30	1.86	1.87	1.82	1.74	2.45	2.25	2.47	2.75	2.67	2.49	2.10	2.30	0.88	0.68	0.78
183		Talayan River	580	650	4.05	4.12	3.84	4.24	5.74	9.83	7.25	7.35	7.46	6.96	8.78	8.03	5.51	7.43	6.47	9.50	11.43	10.52
184	Maridagao		1,520	1,951																		
185	Libungan	Libungan River	8,370	9,141	6.34	5.82	5.72	5.51	5.15	6.97	7.70	7.16	6.39	6.29	5.77	6.73	5.98	6.61	6.30	0.71	0.72	0.72
186	Kabulnan		4,664	5,278																		
187	Kabacan- Pagalungan	Kabacan River	4,390	4,423	0.56	0.60	0.42	0.38	0.42	0.42	0.47	0.50	0.47	0.40	0.46	0.45	0.48	0.45	0.46	0.11	0.10	0.10
188		Kabacan River	400	600	4.07	3.82	3.43	3.55	2.07	1.72	2.90	2.68	2.99	3.45	2.35	2.28	3.25	2.64	2.94	8.13	4.39	5.89
189	Mlang-Malasila	Mlang River	2,661	2,685	1.54	1.58	1.20	0.81	1.36	1.65	1.65	1.75	1.62	1.47	1.55	1.77	1.41	1.58	1.50	0.53	0.59	0.56
190		Malasila River	3,876	3,989	6.22	4.06	3.59	4.90	4.94	5.74	5.45	7.11	6.10	7.53	5.56	5.21	4.92	6.15	5.53	1.27	1.54	1.41
191	Lambayong- Tacurong	Lambayong River	7,178	9,819	7.85	4.31	1.50		6.88	7.54	5.51	5.70	6.04	6.53	8.57	7.77	5.00	6.37	6.20	0.70	0.65	0.73
192		Banga-Kapingkong River	1,462	1,512	1.40	1.20			1.50	2.60	1.94	1.37	1.66	1.58	1.95	2.24	1.13	1.78	1.74	0.77	1.17	1.17
193	Allah-Banga- Marbel	Allah River	4,291	4,465	5.52	4.32	3.25	2.82	5.11	6.89	7.43	6.28	5.16	5.74	6.79	7.18	4.98	6.10	5.54	1.16	1.37	1.27
194			6,531	7,047																		
195		Banga River	2,495	2,541	2.37	2.12	2.00	1.87	2.17	2.29	2.19	2.32	2.10	2.04	2.05	2.15	2.09	2.19	2.14	0.84	0.86	0.85
196		Marbel River	1,798	1,807	1.97	2.07	1.68	1.93	2.02	1.88	1.96	1.87	1.72	2.05	2.17	2.02	1.97	1.92	1.95	1.10	1.06	1.08
197		Marbel and Taplan river	1,611	1,627	1.45	1.35	1.21	1.21	1.45	1.43	1.41	1.38	1.38	1.47	1.68	1.39	1.38	1.42	1.40	0.86	0.87	0.87
198	Siluyay-Buayan	Siluyay/Klinan River	216	654	2.84	2.63	2.71	0.75	2.77	2.88	2.84	2.77	2.72	2.67	2.84	2.53	2.38	2.78	2.58	11.03	4.24	5.93
199		Buayan- Tinanagacan	577	571	0.50	0.56	0.58	0.57	0.58	0.54	0.59	0.55	0.54	0.57	0.64	0.57	0.57	0.56	0.57	0.99	0.98	0.99
Average			3,080	3,437	3.31	2.73	2.39	2.34	2.94	3.61	3.40	3.42	3.24	3.41	3.59	3.53	2.90	3.34	3.17	2.57	2.04	2.19
Region-XIII																						
200	Cabadbaran- Taguibo	Cabadbaran River	2,212	2,300	1.80	1.78	1.65	1.39	1.17	2.43	3.34	2.98	2.56	1.28	0.78	1.60	1.50	2.29	1.90	0.68	1.00	0.84
201	Cantillan	Carac-an River	1,552	1,593	0.31	0.65	1.36	0.50	1.78	2.01	2.15	1.88	0.91	0.52	1.28	0.70	0.80	1.54	1.17	0.52	0.97	0.74
202	Tago	Tago River	2,166	2,375	3.28	3.97	4.48	2.93	1.38	3.12	5.23	5.17	5.52	2.74	0.39	1.76	2.80	3.86	3.33	1.29	1.63	1.47
203	Andanan	Andanan River	3,094	3,107	1.55	1.08	0.97	0.42	0.96	2.25	2.36	1.95	1.22	0.33	0.99	1.78	1.13	1.51	1.32	0.37	0.49	0.43
204	Gibong	Gibong River	1,844	1,858	2.18	2.35			2.35	3.20	2.20	2.93	1.71	-	2.72	2.88	1.69	2.07	2.25	0.92	1.11	1.22
205	Simulao	Simulao River	2,190	2,149	4.58	7.51	4.80	2.91	3.46	5.30	5.65	4.75	5.28	2.75	2.11	3.89	4.30	4.53	4.42	1.96	2.11	2.04
Average			2,176	2,230	2.28	2.89	2.65	1.63	1.85	3.05	3.49	3.28	2.87	1.27	1.38	2.10	2.04	2.63	2.40	0.96	1.22	1.12

Table A2-10

Evaluation of Development Potential for Seasonal Water Resources

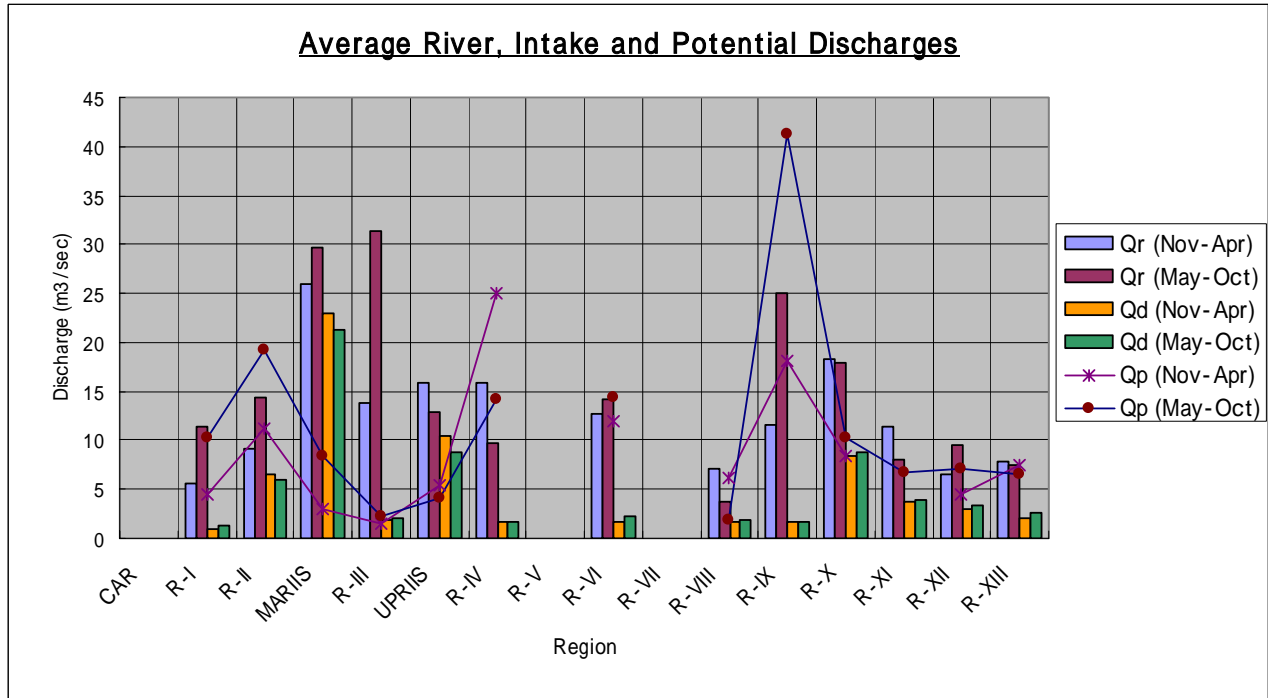
No.	NIS Name	River Name	Seasonal River Discharge (Qr) (m3/sec)			Seasonal Diverted Intake Discharge (Qa) (m3/sec)			Development Potential (Qp) = (Qr) - (Qa) (m3/sec)			Ration of (Qp) / (Qa)			Evaluation for Water Resource Potential		Remarkd
			(Nov-Apr)	(May-Oct)	(Annual)	(Nov-Apr)	(May-Oct)	(Annual)	(Nov-Apr)	(May-Oct)	(Annual)	(Nov-Apr)	(May-Oct)	(Annual)	Weighted Value (WV)	Ranking	
CAR																	
1	Upper Chico -1	Chico River	66.03	80.57	73.30	17.95	16.01	16.98	48.08	64.56	56.32	2.7	4.0	3.3	3.1	Medium	Weighted Value Dry Season x 0.7 Wet Season x 0.3
2	Hapid	Hapid															
3	West Apayao Abulog	West Apayao Abulog															
Average			66.03	80.57	73.30	17.95	16.01	16.98	48.08	64.56	56.32	2.7	4.0	3.3	3.1		
Region-I																	
4	Bonga PIS-1	Bonga River#1	14.56	31.93	23.25	0.08	0.06	0.07	14.48	31.87	23.17	181.0	503.2	323.4	277.7	High	Potential Ranking
5	Bonga PIS-2	Bonga River#2	14.08	27.77	20.93	0.09	0.07	0.08	13.99	27.70	20.84	149.9	386.5	252.6	220.9	High	WV : < 1 Low (L)
6	Bonga PIS-3	Bonga River#3	4.35	18.95	11.65	0.07	0.06	0.06	4.29	18.89	11.59	64.3	323.9	185.4	142.2	High	WV : 1 - 5 Medium (M)
7	Laoag Vintar	Vintar River				1.74	1.89	1.81									WV : 5 > High (H)
8	Nmc Pasuquin	Vintar River	14.11	27.84	20.97	0.75	0.72	0.74	13.36	27.11	20.23	17.8	37.5	27.5	23.7	High	
9	Dingras	Bonga River	14.08	27.77	20.93	0.81	0.72	0.77	13.27	27.05	20.16	16.3	37.4	26.2	22.6	High	
10	Bolo	Bolo RIS	7.99	16.05	12.02	0.76	0.67	0.72	7.23	15.37	11.30	9.5	22.8	15.8	13.5	High	
11	Cura	Cura RIS	4.25	11.96	8.11	0.38	0.54	0.46	3.88	11.42	7.65	10.3	21.2	16.7	13.6	High	
12	Nueva Era	Nueva Era	1.79	4.02	2.91	0.21	0.20	0.21	1.58	3.82	2.70	7.4	19.0	13.0	10.9	High	
13	Madongan Area	Madongan RIS	4.74	8.95	6.85	2.50	2.68	2.82	2.24	6.28	4.02	0.9	2.3	1.4	1.3	Medium	
14	Solsona Area	Solsona River	3.08	9.43	6.25	0.00	0.01	0.01	3.08	9.42	6.24						
15	Labugaon Area	Labugaon RIS	5.65	8.73	7.19	5.16	8.36	6.76	0.49	0.38	0.44	0.1	-	0.1	0.1	Low	
16	Papa Area	Papa RIS	1.78	3.81	2.79	1.14	1.59	1.48	0.65	2.22	1.31	0.6	1.4	0.9	0.8	Low	
17	Sta. Maria-Burgos	Sta. Maria-Burgos	0.24	1.08	0.66	0.13	0.49	0.32	0.11	0.59	0.33	0.8	1.2	1.0	0.9	Low	
18	Sta. Lucia- Candon	Sta. Lucia-Candon	0.48	1.07	0.77	0.29	0.53	0.41	0.19	0.54	0.36	0.6	1.0	0.9	0.7	Low	
19	Tagudin	Tagudin	2.14	4.41	3.28	0.72	1.18	0.95	1.42	3.23	2.33	2.0	2.7	2.5	2.2	Medium	
20	Amburayan	Amburayan River	2.12	2.47	2.30	0.17	0.15	0.16	1.95	2.32	2.14	11.4	15.6	13.3	12.7	High	
21	Ambayoan	Ambayoan RIS	1.76	3.67	2.71	0.66	1.07	0.85	1.10	2.60	1.87	1.7	2.4	2.2	1.9	Medium	
22	Ambayoan-Extension																
23	Dipalo	Dipalo RIS	0.89	1.40	1.14	0.56	0.76	0.66	0.33	0.64	0.48	0.6	0.8	0.7	0.7	Low	
24	Masalip	Aringay River				0.96	0.84	0.90									
25	Lower Agno	Agno River	6.83	5.59	6.21	3.75	3.42	3.58	3.09	2.16	2.62	0.8	0.6	0.7	0.7	Low	
26	San Fabian	Bued River				1.17	1.78	1.48									
27	Dumuloc	Dumuloc, Cabatuan River				0.51	0.74	0.62									
28	Agno	Agno River															
29	Sinolacan	Sinolacan River															
Average			5.52	11.41	8.47	0.98	1.24	1.13	4.56	10.19	7.36	26.44	76.64	49.13	41.50		
Region-II																	
30	Visitacion	Visitacion															
31	Baua	Baua River	3.85	3.23	3.54	3.50	2.94	3.22	0.35	0.29	0.32	0.1	0.1	0.1	0.1	Low	
32	Banurbur Creek	Banurbur Creek	14.77	21.47	18.12	0.79	0.85	0.82	13.99	20.62	17.30	17.8	24.2	21.1	19.7	High	
33	Magapit PIS	Magapit PIS				49.19	42.62	45.90									
34	Apayao-Abulug	Apayao-Abulug River	0.36	0.35	0.35	3.13	3.32	3.23									
35	Pamplona	Apatao River				3.13	3.32	3.23									
36	Dummun	Dummun River				1.39	1.20	1.29									
37	Zinundungan	Zinundungan River															
38	Baggao	Pared River	2.05	1.93	1.99												
39	Iguig-Alcala-Amulung PIS	Cagayan River															
40	Lower Chico RIS	Chico River				1.95	1.67	1.81									
41	Solana PIS	Cagayan River															
42	Pinacanauan	Pinacanauan River															
43	San Pablo Cabagan	Pinacanauan San Pablo River				5.21	5.29	5.25									
44	Tumauni	Pinacanauan de Tumauni	22.82	38.05	30.43	1.60	1.42	1.51	21.22	36.63	28.92	13.2	25.8	19.2	17.0	High	
45	Mallig	Mallig River	11.23	21.53	16.38	1.80	2.26	2.21	9.44	19.27	14.17	5.3	8.5	6.4	6.3	High	
46	Bagabag	Magat River				0.92	1.31	1.21									
Average:			9.18	14.43	11.80	6.60	6.02	6.33	11.25	19.20	15.18	9.10	14.65	11.70	10.77		

No.	NIS Name	River Name	Seasonal River Discharge (Qr) (m3/sec)			Seasonal Diverted Intake Discharge (Qa) (m3/sec)			Development Potential (Qp) = (Qr) - (Qa) (m3/sec)			Ration of (Qp) / (Qa)			Evaluation for Water Resource Potential		Remarkd
			(Nov-Apr)	(May-Oct)	(Annual)	(Nov-Apr)	(May-Oct)	(Annual)	(Nov-Apr)	(May-Oct)	(Annual)	(Nov-Apr)	(May-Oct)	(Annual)	Weighted Value (WV)	Ranking	
94	Mayor																
95	Dambo PIS																
96	Sta. Cruz		4.95	4.09	4.52	3.41	3.08	3.25	1.54	1.02	1.28	0.5	0.3	0.4	0.4	Low	
97	Mabacan																
98	Balanac																
99	Lumban																
100	Malaunod																
101	Dumacaa	Dumacaa River	7.63	4.95	6.29	1.92	1.67	1.79	5.71	3.28	4.50	3.0	2.0	2.5	2.7	Medium	
102	Hanagdong	Hanagdong River	0.60	0.57	0.59	0.23	0.23	0.23	0.37	0.35	0.36	1.7	1.5	1.6	1.6	Medium	
103	Lagnas	Lagnas River	0.73	0.92	0.82	0.55	0.59	0.57	0.18	0.33	0.25	0.3	0.6	0.4	0.4	Low	
104	Pagbahán	Pagbahán River															
105	Baco Bucayao																
106	Mag-Asawang Tubig																
107	Amnay-Patric	Patrick River				1.07	0.97	1.02									
108	Mongpong	Mongpong River															
109	Pula	Pula River															
110	Bansud																
111	Lumintao																
112	Caguray	Caguray River															
113	Cantingas	Cantingas River															
114	Batang-Batang	Batang-Batang River	15.72	15.72	17.25	3.05	3.05	3.08	12.67	12.67	14.17	4.2	4.2	4.6	4.2	Medium	
115	Malatgao	Malatgao River	5.30	5.30	5.88	3.61	3.61	4.09	1.69	1.69	1.79	0.5	0.5	0.4	0.5	Low	
	Average		15.96	9.66	13.00	1.72	1.71	1.77	25.00	14.10	17.31	28.86	8.76	1.90	1.89		
Region-V																	
116	Daet Talisay-Matogdon	Daet River															
117		Matogdon River															
118	Libmanan- Cabusao																
119	Tigman-Hinagyanan-Inarihan	Hinagyanan River															
120		Inarihan River	122.08	89.89	105.99												(High)
121	Cagaycay																
122	Rinconada Integrated																
123																	
124																	
125	Mahaba-Nasisi-Ogsong-Hibiga																
126																	
127																	
128																	
129	Pili-Bulan-San Francisco																
130																	
	Average		122.08	89.89	105.99	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
Region-VI																	
131	Aklan- Panakuyan	East Side River	1.46	1.72	1.59	1.35	1.47	1.41	0.11	0.25	0.18	0.1	0.2	0.1	0.1	Low	
132		Panakuyan River	0.91	2.55	1.73	0.25	0.45	0.38	0.66	2.11	1.35	2.6	4.7	3.5	3.2	Medium	
133	Sibalom-San Jose	Tipuluan River	1.22	2.13	1.67	0.25	0.45	0.38	0.96	1.68	1.29	3.8	3.8	3.4	3.8	Medium	
134	Mambusao	Mambusao River				0.65	0.80	0.72									
135	Jaluar-Suague	Jaluar River	59.83	59.73	59.78	8.97	10.47	9.72	50.87	49.26	50.06	5.7	4.7	5.2	5.4	High	
136		Jaluar River	59.83	59.73	59.78	1.58	1.89	1.74	58.25	57.83	58.04	36.9	30.5	33.4	35.0	High	
137		Suague River	5.60	8.08	6.84	1.92	2.80	2.36	3.68	5.28	4.48	1.9	1.9	1.9	1.9	Medium	
138	Sibalom-Tigbuan	Sibalom River	0.67	1.98	1.32	0.66	2.04	1.80	0.00								
139	Aganan- Sta Barbara	Aganan River	0.91	2.55	1.73	0.67	1.69	1.18	0.24	0.86	0.55	0.4	0.5	0.5	0.4	Low	
140		Tigum River	3.69	10.54	7.11	1.03	2.15	1.74	2.66	8.38	5.38	2.6	3.9	3.1	3.0	Medium	
141	Barotac Viejo	Barotac Viejo River	2.77	4.24	3.50	0.69	1.25	0.97	2.09	2.99	2.54	3.0	2.4	2.6	2.8	Medium	
142	Bago	Bago River	14.97	16.05	15.51												
143	Pangiplan	Pangiplan River	0.89	0.43	0.66	1.13	0.78	0.95									
	Average		12.73	14.14	13.44	1.59	2.19	1.94	11.95	14.29	13.76	6.33	5.84	5.97	5.57		

No.	NIS Name	River Name	Seasonal River Discharge (Qr) (m3/sec)			Seasonal Diverted Intake Discharge (Qa) (m3/sec)			Development Potential (Qp) = (Qr) - (Qa) (m3/sec)			Ration of (Qp) / (Qa)			Evaluation for Water Resource Potential		Remarkd
			(Nov-Apr)	(May-Oct)	(Annual)	(Nov-Apr)	(May-Oct)	(Annual)	(Nov-Apr)	(May-Oct)	(Annual)	(Nov-Apr)	(May-Oct)	(Annual)	Weighted Value (WV)	Ranking	
Region-VII																	
144	Bohol	Wahig-Pamacsalan River				2.88	2.92	2.90									
145																	
Average			#DIV/0!	#DIV/0!	#DIV/0!	2.88	2.92	2.90	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
Region-VIII																	
146	Mainit-Pongso	Mainit River	7.70	4.83	6.26	1.86	3.01	2.91	5.83	1.82	3.35	3.1	0.6	1.1	2.4	Medium	
147		Pongso River				0.78	0.96	0.87									
148	Bao	Bao River				2.59	2.16	2.38									
149	Binahaan-Tibak																
150		Binahaan River	13.45	8.25	10.85												(High)
151		Cand-is Creek															
152		Tibak Creek	1.34	0.49	0.92												
153	Daguitan- Guirona	Daguitan River	11.30	7.81	9.56												
154		Guirona River	2.94	1.78	2.36	1.75	1.68	1.71	1.19	0.10	0.65	0.7	0.1	0.4	0.5	Low	
155	Balire-Ibawon- Gibuga	Balire River	1.94	1.18	1.56												
156		Ibawon River	4.33	2.64	3.48												
157		Gibuga River	7.06	4.30	5.68												
158																	
159	Bito	Bito River	20.32	6.49	13.41	2.61	2.79	2.68	17.71	3.70	10.73	6.8	1.3	4.0	5.2	High	
160	Hindang-Hilongod- Das-Ay	Salog River	0.35	0.35	0.35	0.35	0.35	0.35	0								
161		Das-ay River	8.01	2.83	5.42												
Average			7.16	3.72	5.44	1.66	1.82	1.82	6.18	1.87	4.91	3.53	0.67	1.83	2.67		
Region-IX																	
162	Sibuguey Valley	Sibuguey River	6.11	13.91	10.01												
163	Salug-Dipolo	Dipolo River	0.35	0.64	0.50												
164		Salug Daku River	21.59	35.90	28.74	1.87	1.87	1.87	19.72	34.03	26.87	10.6	18.2	14.4	12.9	High	
165	Labangan	Labangan River	18.00	49.96	33.98	1.45	1.39	1.42	16.55	48.58	32.56	11.5	35.0	23.0	18.6	High	
Average			11.51	25.10	18.31	1.66	1.63	1.64	18.14	41.30	29.72	11.05	26.60	18.70	15.72		
Region-X																	
166	Bubunawan																
167	Manupali	Manupali River	7.17	8.98	8.08	4.10	3.85	3.98	3.07	5.14	4.10	0.7	1.3	1.0	0.9	Low	
168	Pulangui-Roxas- Kuya	Pulangi River, Maapag creek, Laligan River Kulaman River	49.62	45.69	47.66	19.49	20.62	20.06	30.13	25.07	27.60	1.5	1.2	1.4	1.4	Medium	
169		Maramag & Kuya River	2.49	2.38	2.43	1.74	1.50	1.62	0.75	0.88	0.81	0.4	0.6	0.5	0.5	Low	
170	Muleta	Muleta River				3.13	3.55	3.34									
171	Rugnan																
172	Maranding	Salug River	13.59	14.35	13.97	13.59	14.35	13.97	0								
Average			18.22	17.85	18.03	8.41	8.77	8.59	8.48	10.36	10.84	0.87	1.03	0.97	0.92		
Region-XI																	
173	Lupon	Sumlog River	2.38	0.01	1.19	2.32	1.79	2.05	0.06								
174	Batutu	Batuto River	13.81	11.71	12.76	4.11	4.00	4.06	9.70	7.71	8.70	2.4	1.9	2.1	2.3	Medium	
175	Saug-Libuganon Left	Saug River	30.90	17.36	24.13	3.55	3.50	3.52	27.34	13.86	20.60	7.7	4.0	5.8	6.6	High	
176		Saug River				3.55	3.50	3.52									
177	Lasang-Libuganon-Kipaliku	Lasang River				3.80	4.34	4.07									
178		Libuganon River				9.01	9.46	9.23									
179		Kipaliku River				2.36	2.32	2.34									
180	Mal-Padada	Mal River	2.92	4.13	3.52	2.82	3.82	3.32	0.10	0.31	0.21	0	0.1	0.1	0.0	Low	
181		Padada River	6.64	7.21	6.92	2.46	2.50	2.48	4.18	4.71	4.44	1.7	1.9	1.8	1.8	Medium	
Average			11.33	8.08	9.70	3.77	3.91	3.84	8.28	6.65	8.49	2.95	1.98	2.45	2.66		

No.	NIS Name	River Name	Seasonal River Discharge (Qr) (m3/sec)			Seasonal Diverted Intake Discharge (Qa) (m3/sec)			Development Potential (Qp) = (Qr) - (Qa) (m3/sec)			Ration of (Qp) / (Qa)			Evaluation for Water Resource Potential		Remarkd
			(Nov-Apr)	(May-Oct)	(Annual)	(Nov-Apr)	(May-Oct)	(Annual)	(Nov-Apr)	(May-Oct)	(Annual)	(Nov-Apr)	(May-Oct)	(Annual)	Weighted Value (WV)	Ranking	
Region-XII																	
182	Alip-Talayán	Alip River	3.63	3.64	3.63	2.49	2.10	2.30	1.14	1.54	1.34	0.5	0.7	0.6	0.6	Low	
183		Talayán River				5.51	7.43	6.47									
184	Maridagao																
185	Libungan	Libungan River	18.69	28.06	23.37	5.98	6.61	6.30	12.71	21.45	17.08	2.1	3.2	2.7	2.4	Medium	
186	Kabulnan																
187	Kabacan- Pagalungan	Kabacan River	3.73	3.33	3.53	0.48	0.45	0.46	3.25	2.88	3.07	6.8	6.4	6.6	6.7	High	
188		Kabacan River				3.25	2.64	2.94									
189	Mlang-Malasila	Mlang River	4.62	6.06	5.34	1.41	1.58	1.50	3.21	4.47	3.84	2.3	2.8	2.6	2.5	Medium	
190		Malasila River	5.16	6.71	5.93	4.92	6.15	5.53	0.24	0.56	0.40	-	0.1	0.1	0.0	Low	
191	Lambayong- Tacurong	Lambayong River	13.67	22.99	18.33	5.00	6.37	6.20	8.67	16.62	12.13	1.7	2.6	2.0	2.0	Medium	
192		Banga-Kapingkong River	12.97	21.67	17.32	1.13	1.78	1.74	11.84	19.89	15.58	10.5	11.2	8.9	10.7	High	
193	Allah-Banga- Marbel	Allah River				4.98	6.10	5.54									
194																	
195		Banga River	4.64	5.22	4.93	2.09	2.19	2.14	2.55	3.03	2.79	1.2	1.4	1.3	1.3	Medium	
196		Marbel River	2.66	2.94	2.80	1.97	1.92	1.95	0.69	1.02	0.86	0.3	0.5	0.4	0.4	Low	
197		Marbel and Taplan river				1.38	1.42	1.40									
198	Siluy-Buayan	Siluy/Klinan River	2.18	2.51	2.34	2.38	2.78	2.58									
199		Buayan- Tinagagan	0.57	0.58	0.57	0.57	0.56	0.57	0	0.02	0.01						
	Average		6.59	9.43	8.01	2.90	3.34	3.17	4.43	7.15	5.71	2.82	3.21	2.80	2.94		
Region-XIII																	
200	Cabadbaran- Taguibo	Cabadbaran River	7.85	4.36	6.10	1.50	2.29	1.90	6.35	2.06	4.21	4.2	0.9	2.2	3.2	Medium	
201	Cantillan	Carac-an River	2.39	1.62	2.00	0.80	1.54	1.17	1.59	0.08	0.83	2.0	0	0.7	1.4	Medium	
202	Tago	Tago River	0.08	0.02	0.05	2.80	3.86	3.33									
203	Andanan	Andanan River	18.22	26.79	22.50	1.13	1.51	1.32	17.09	25.28	21.18	15.1	16.7	16.0	15.6	High	
204	Gibong	Gibong River	11.84	7.13	9.49	1.69	2.07	2.25	10.15	5.07	7.23	6.0	2.5	3.2	5.0	Medium	
205	Simulao	Simulao River	6.18	4.79	5.49	4.30	4.53	4.42	1.88	0.26	1.07	0.4	0.1	0.2	0.3	Low	
	Average		7.76	7.45	7.61	2.04	2.63	2.40	7.41	6.55	6.90	5.54	4.04	4.46	5.09		

Figure A2-1 Seasonal Potential Water Resources by Region



Region	River Discharge (Qr)		Intake Discharge (Qd)		Development Potential (Qr-Qa)	
	Nov-Apr.	May-Oct	Nov-Apr.	May-Oct	Nov-Apr.	May-Oct
CAR						
R-I	5.52	11.41	0.98	1.24	4.56	10.19
R-II	9.18	14.43	6.6	6.02	11.25	19.2
MARIIS	26.00	29.66	23.05	21.34	2.95	8.31
R-III	13.85	31.34	1.87	2.1	1.42	2.33
UPRIIS	15.81	12.8	10.41	8.73	5.4	4.07
R-IV	15.96	9.66	1.72	1.71	25	14.1
R-V						
R-VI	12.73	14.14	1.59	2.19	11.95	14.29
R-VII						
R-VIII	7.16	3.72	1.66	1.82	6.18	1.87
R-IX	11.51	25.1	1.66	1.63	18.14	41.3
R-X	18.22	17.85	8.41	8.77	8.48	10.36
R-XI	11.33	8.08	3.77	3.91		6.65
R-XII	6.59	9.43	2.9	3.34	4.43	7.15
R-XIII	7.76	7.45	2.04	2.63	7.41	6.55

Table A3-1 Calibration Table of Canal Discharge

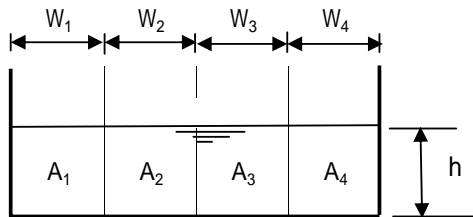
Name of Canal :

Date :

Rectangular Canal

Water Depth (m) h	Canal Section (W)(m)				Canal Section Area of Flow(A) (m ²)				Velocity of Flow (V) (m/sec)				Estimated Canal Discharge (Q) (m ³ /sec)				
	W ₁	W ₂	W ₃	W ₄	A ₁	A ₂	A ₃	A ₄	V ₁	V ₂	V ₃	V ₄	Q ₁	Q ₂	Q ₃	Q ₄	Q
0.00	0.8	0.8	0.8	0.8	0	0	0	0	0.00	0.00	0.00	0.00	0	0	0	0	0
0.50	0.8	0.8	0.8	0.8	0.4	0.4	0.4	0.4	0.60	0.76	0.75	0.60	0.24	0.3	0.3	0.24	1.08
0.75	0.8	0.8	0.8	0.8	0.6	0.6	0.6	0.6	0.70	0.80	0.80	0.70	0.42	0.48	0.48	0.42	1.8
1.00	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.75	0.83	0.85	0.75	0.6	0.66	0.68	0.6	2.54
1.50	0.8	0.8	0.8	0.8	1.2	1.2	1.2	1.2	0.80	0.90	0.90	0.80	0.96	1.08	1.08	0.96	4.08
2.00	0.8	0.8	0.8	0.8	1.6	1.6	1.6	1.6	0.84	0.95	0.95	0.84	1.34	1.52	1.52	1.34	5.72
2.50	0.8	0.8	0.8	0.8	2	2	2	2	0.90	1.00	1.00	0.90	1.8	2	2	1.8	7.6

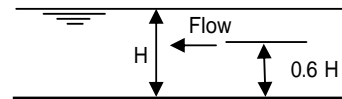
A-120



$$A = W \times H \text{ (m}^2\text{)}$$

$$Q = A \times V \text{ (m}^3\text{/sec)}$$

Six-Ten Method



Two Point Met

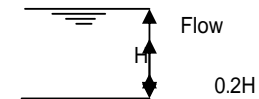


Table A3-2 Calibration Table of Canal Discharge

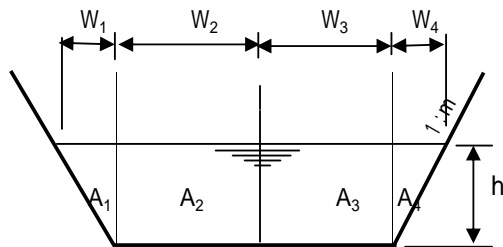
Name of Canal :

Date :

Trapezoidal Canal m =

Water Depth (m) h	Canal Section (W)(m)				Canal Section Area of Flow (A) (m ²)				Velocity of Flow (V) (m/sec)				Estimated Canal Discharge (Q) (m ³ /sec)				
	W ₁	W ₂	W ₃	W ₄	A ₁	A ₂	A ₃	A ₄	V ₁	V ₂	V ₃	V ₄	Q ₁	Q ₂	Q ₃	Q ₄	Q
0.00	0	0.8	0.8	0	0	0	0	0	0.00	0.00	0.00	0.00	0	0	0	0	0
0.50	0.75	0.8	0.8	0.75	0.19	0.4	0.4	0.19	0.60	0.76	0.75	0.60	0.11	0.3	0.3	0.11	0.82
0.75	1.125	0.8	0.8	1.125	0.42	0.6	0.6	0.42	0.70	0.80	0.80	0.70	0.29	0.48	0.48	0.29	1.54
1.00	1.5	0.8	0.8	1.2	0.75	0.8	0.8	0.75	0.75	0.83	0.85	0.75	0.56	0.66	0.68	0.56	2.46
1.50	2.25	0.8	0.8	2.25	1.69	1.2	1.2	1.69	0.80	0.90	0.90	0.80	1.35	1.08	1.08	1.35	4.86
2.00	3	0.8	0.8	3	3	1.6	1.6	3	0.84	0.95	0.95	0.84	2.52	1.52	1.52	2.52	8.08
2.50	3.75	0.8	0.8	3.75	4.69	2	2	4.69	0.90	1.00	1.00	0.90	4.22	2	2	4.22	12.44

A-121



$$A_1 = W_1 \times h/2 = mh^2/2 \text{ (m}^2\text{)}$$

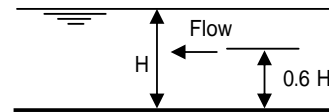
$$A_2 = W_2 \times h \text{ (m}^2\text{)}$$

$$A_3 = W_3 \times h \text{ (m}^2\text{)}$$

$$A_4 = W_4 \times h/2 = mh^2/2 \text{ (m}^2\text{)}$$

$$Q = A \times V \text{ (m}^3\text{/sec)}$$

Six-Ten Method



Two Point Method

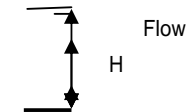


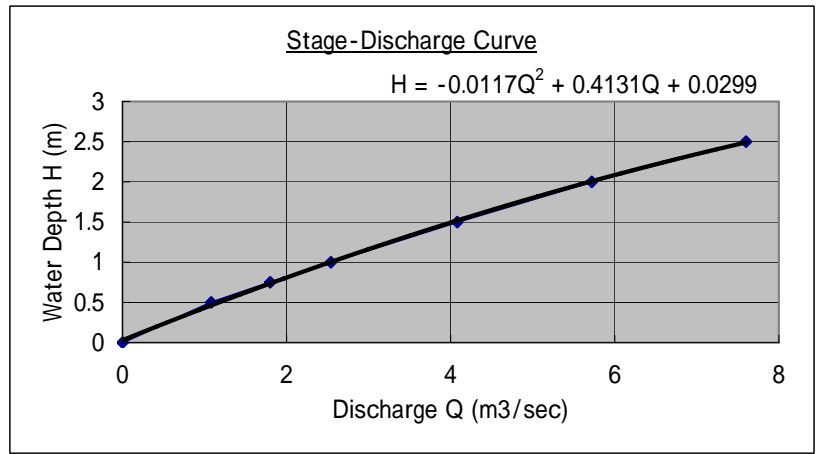
Table A3-3

Developed Stage-Discharge Curve and Calibrated Stage-Discharge Table (Station : _____)

Rectangular Canal

Canal Discharge Q (m ³ /sec)	Water Depth h (m)
0	0
1.08	0.5
1.8	0.75
2.54	1
4.08	1.5
5.72	2
7.6	2.5

Stage - Discharge Curve



$$H = -0.0117Q^2 + 0.4131Q + 0.0299$$

$$H = aQ^2 + bQ + C$$

$$a = -0.0117$$

$$b = 0.4131$$

$$c = 0.0299$$

$$Q = \frac{-b \pm \sqrt{b^2 - 4a(c - H)}}{2a}$$

Stage - Discharge Table

Water Depth (H) (m)	Discharge Q (m ³ /sec)								
	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
0.00	-0.048	-0.024	0	0.024	0.049	0.073	0.097	0.122	0.146
0.10	0.195	0.219	0.244	0.269	0.293	0.318	0.342	0.367	0.392
0.20	0.441	0.466	0.491	0.516	0.541	0.566	0.591	0.616	0.641
0.30	0.692	0.717	0.742	0.767	0.793	0.818	0.843	0.869	0.894
0.40	0.945	0.971	0.997	1.022	1.048	1.074	1.1	1.125	1.151
0.50	1.203	1.229	1.255	1.281	1.307	1.334	1.36	1.386	1.412
0.60	1.465	1.491	1.518	1.544	1.571	1.598	1.624	1.651	1.678
0.70	1.731	1.758	1.785	1.812	1.839	1.866	1.893	1.92	1.947
0.80	2.002	2.029	2.057	2.084	2.112	2.139	2.167	2.194	2.222
0.90	2.277	2.305	2.333	2.361	2.389	2.417	2.445	2.473	2.501
1.00	2.558	2.586	2.615	2.643	2.672	2.7	2.729	2.757	2.786
1.10	2.844	2.873	2.901	2.93	2.96	2.989	3.018	3.047	3.076
1.20	3.135	3.165	3.194	3.224	3.253	3.283	3.313	3.343	3.372
1.30	3.432	3.463	3.493	3.523	3.553	3.584	3.614	3.644	3.675
1.40	3.736	3.767	3.798	3.829	3.86	3.891	3.922	3.953	3.984
1.50	4.047	4.078	4.11	4.141	4.173	4.205	4.236	4.268	4.300

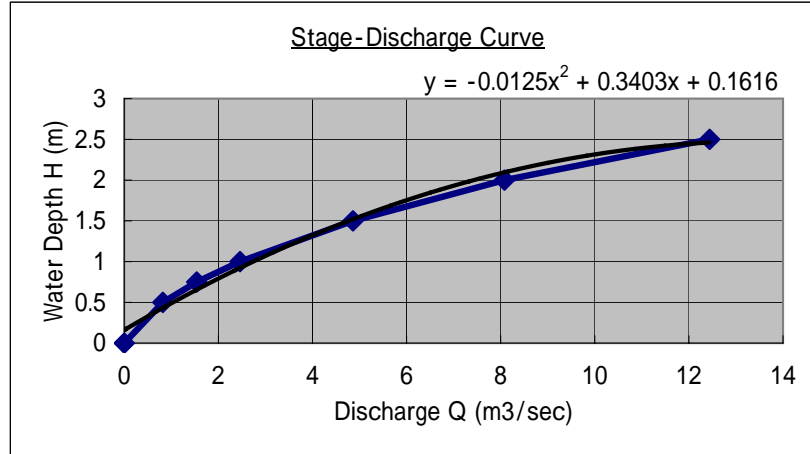
Table A3-4

Developed Stage-Discharge Curve and Calibrated Stage-Discharge Table (Station : _____)

Trapezoidal Canal

Canal Discharge	Water Depth
Q (m ³ /sec)	h (m)
0	0
0.82	0.5
1.54	0.75
2.46	1
4.86	1.5
8.08	2
12.44	2.5

Stage - Discharge Curve



$$H = -0.0125Q^2 + 0.3403Q + C$$

$$H = aQ^2 + bQ + C$$

a = -0.0125
 b = 0.3403
 c = 0.1616

$$Q = (-b \pm (b^2 - 4a(c - H))^{1/2})$$

Stage - Discharge Table

Water Depth (H) (m)	Discharge Q (m ³ /sec)									
	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	
0.00	-0.438	-0.41	-0.381	-0.353	-0.324	-0.295	-0.267	-0.238	-0.209	
0.10	-0.151	-0.122	-0.093	-0.063	-0.034	-0.005	0.025	0.054	0.084	
0.20	0.143	0.173	0.203	0.232	0.262	0.292	0.322	0.352	0.383	
0.30	0.443	0.474	0.504	0.535	0.565	0.596	0.627	0.658	0.689	
0.40	0.751	0.782	0.813	0.844	0.876	0.907	0.939	0.97	1.002	
0.50	1.066	1.097	1.129	1.162	1.194	1.226	1.258	1.291	1.323	
0.60	1.388	1.421	1.454	1.487	1.52	1.553	1.586	1.62	1.653	
0.70	1.72	1.754	1.788	1.822	1.856	1.89	1.924	1.958	1.992	
0.80	2.061	2.096	2.131	2.166	2.201	2.236	2.271	2.306	2.342	
0.90	2.413	2.449	2.485	2.521	2.557	2.593	2.63	2.666	2.703	
1.00	2.776	2.813	2.85	2.888	2.925	2.962	3	3.038	3.076	
1.10	3.152	3.19	3.229	3.267	3.306	3.345	3.384	3.423	3.462	
1.20	3.542	3.581	3.621	3.661	3.702	3.742	3.783	3.824	3.864	
1.30	3.947	3.988	4.03	4.072	4.114	4.156	4.198	4.241	4.284	
1.40	4.37	4.413	4.457	4.501	4.545	4.589	4.633	4.678	4.723	
1.50	4.813	4.859	4.905	4.951	4.997	5.044	5.091	5.138	5.185	