

soils science laboratory  
 mtes, nia-region 6  
 iloilo city  
 F - C - 84

Report No. AF - 05  
 Sheet 8 of 10  
 Date \_\_\_\_\_

TEST FOR SOUNDNESS OF ROCKS

Project: AGUIRRE RIVER PROJECT      Sampled by: ANTONIO CAÑAS  
 Location: SAPA, ILOILO      Sampled at: JOB SITE, SAPA, ILOILO  
 Requested by: ANTONIO CAÑAS      Sampled on: OCTOBER 8, 1984  
 Source: CONCRETE RECOVERY MATERIALS      Quarry Designation: DDH - F<sub>3</sub>; SAMPLE NO. 2  
 Laboratory Sample No.: AP - ST 4 08      Core Depth: \_\_\_\_\_

PURPOSE: \_\_\_\_\_

SIEVE SIZE		TYPICAL GRADING PERCENT	WEIGHT OF TEST FRACTIONS BEFORE TEST, grams	WEIGHT OF TEST FRACTIONS AFTER TEST, grams	DIFFERENCE IN WEIGHT grams	ACTUAL PERCENT LOSS BY DIFFERENCE	WEIGHTED AVERAGE (CORRECTED PERCENT LOSS)
PASSING mm.	RETAINED mm.						
COARSE MATERIAL							
40	20		2,006.00	608.00	1,398.00	69.6909	
20	10		503.20	142.60	360.60	71.6614	
10	5		100.11	27.53	72.58	72.5002	
TOTALS			2,609.31	778.13			
FINE MATERIAL							
5	2.5		100.00	43.36	56.64	56.64	
2.5	1.2		100.00	44.83	55.17	55.17	
1.2	0.6		100.00	63.01	36.99	36.99	
0.6	0.3		100.00	71.06	28.93	28.93	
TOTALS			400.00	222.27			

TESTED BY: HENRY D. DASMARIAS      Laboratory Technician  
 CHECK AND SUPERVISED BY: RONIE B. JACONIN      Laboratory In-Charge  
 NOTED BY: EDMUNDO S. BENJAVILLA      Materials Testing Supervisor

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Report No. AP - 05  
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 Date \_\_\_\_\_

TEST FOR SOUNDNESS OF ROCKS

Project: ABUE RIVER PROJECT                      Sampled by: ANTONIO SANTOS  
 Location: SARA, ILOILO                              Sampled at: JOB SITE, SARA, ILOILO  
 Requested by: ANTONIO SANTOS                      Sampled on: OCTOBER 8, 1984  
 Source: COAL RECOVERY MATERIALS                      Quarry Designation: MDH - R3, SAMPLE NO. 3  
 Laboratory Sample No.: AP - ST - 09                      Core Depth: \_\_\_\_\_

PURPOSE: \_\_\_\_\_  
 \_\_\_\_\_

SIEVE SIZE		TYPICAL GRADING PERCENT	WEIGHT OF TEST FRACTIONS BEFORE TEST, grams	WEIGHT OF TEST FRACTIONS AFTER TEST, grams	DIFFERENCE IN WEIGHT grams	ACTUAL PERCENT LOSS BY DIFFERENCE	WEIGHTED AVERAGE (CORRECTED PERCENT LOSS)
PASSING mm.	RETAINED mm.						
COARSE MATERIAL							
40	20		2,201.20	906.20	1,295.00	58.8315	
20	10		500.10	296.70	203.40	40.6719	
10	5		100.32	67.02	33.20	33.1271	
TOTALS			2,801.52	1,269.92			
FINE MATERIAL							
5	2.5		100.00	75.74	24.26	24.26	
2.5	1.2		100.00	77.93	22.07	22.07	
1.2	0.6		100.00	71.98	28.02	28.02	
0.6	0.3		100.00	69.85	30.15	30.15	
TOTALS			400.00	295.50			

TESTED BY: HENRY B. DASMARIAS  
 Laboratory Technician

CHECK AND SUPERVISED BY: RODOLFO W. SAGOLIN  
 Laboratory In-Charge

NOTED BY: EDMUNDO S. MEDIAVILLA  
 Materials Testing Supervisor

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 Sheet 10 of 10  
 Date \_\_\_\_\_

TEST FOR SOUNDNESS OF ROCKS

Project: AGRI RIVER PROJECT      Sampled by: ANTONIO SAMPON  
 Location: SARA, ILOILO      Sampled at: JOB SITE, SARA, ILOILO  
 Requested by: ARMANDO SAN JOSE      Sampled on: OCTOBER 8, 1984  
 Source: GRAVELLY MATERIAL      Quarry Designation: DEE - 2; SAMPON HC  
 Laboratory Sample No.: AT - SP - 10      Core Depth: \_\_\_\_\_

PURPOSE: \_\_\_\_\_

SIEVE SIZE	TYPICAL GRADING PERCENT	WEIGHT OF TEST FRACTIONS BEFORE TEST, grams	WEIGHT OF TEST FRACTIONS AFTER TEST, grams	DIFFERENCE IN WEIGHT grams	ACTUAL PERCENT LOSS BY DIFFERENCE	WEIGHTED AVERAGE (CORRECTED PERCENT LOSS)
PAS'NG mm.	RET'ED mm.					
COARSE MATERIAL						
40	20	2,034.70	1,911.80	122.90	6.0402	
20	10	500.20	441.70	58.50	11.6953	
10	5	100.57	96.94	3.63	3.6094	
TOTALS		2,635.47	2,450.44			
FINE MATERIAL						
5	2.5	100.00	91.77	8.23	8.23	
2.5	1.2	100.00	87.90	12.10	12.10	
1.2	0.6	100.00	89.81	10.19	10.19	
0.6	0.3	100.00	88.95	11.05	11.05	
TOTALS		400.00	358.43			

TESTED BY: HENRY D. DASMA IIAS  
 Laboratory Technician

CHECK AND SUPERVISED BY: RONIE X. JIGON  
 Laboratory In-Charge

NOTED BY: ARMANDO S. M. FIAYILLA  
 Materials Testing Supervisor

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 Date \_\_\_\_\_

TEST FOR SOUNDNESS OF ROCKS

Project: ASUK RIVER PROJECT Sampled by: ANTONIO SANTOS  
 Location: SARA, ILOILO Sampled at: JOB SITE, SARA, ILOILO  
 Requested by: ANTONIO SANTOS Sampled on: OCTOBER 08, 1984  
 Source: CORE RECOVERY MATERIALS Quarry Designation: DWH - R<sub>3</sub> - SAMPLE NO. 1  
 Laboratory Sample No.: AP - SR - 07 Core Depth: \_\_\_\_\_

PURPOSE: TO DETERMINE PERCENT LOSS OF WEIGHT SAMPLE AFTER FIVE TEST CYCLE OF Na<sub>2</sub>SO<sub>4</sub>  
STARTED: NOVEMBER 8, 1984 - DATE STARTED: NOVEMBER 15, 1984 - DATE CONCLUDED.

SIEVE SIZE (mm.)	CYCLE NO.	INITIAL DRY WEIGHT OF TEST FRACTIONS BEFORE TEST (grams)	FINAL DRY WEIGHT OF TEST FRACTIONS AFTER TEST (grams)	LOSS OF WEIGHT (grms.)	PERCENT LOSS	WEIGHTED PERCENT LOSS	
40	01	2,007.60	1,930.70	76.90	3.8304	3.8304	11/09
to	2	1,930.70	1,393.80	536.90	27.8786	30.5738	11/12
20	3	1,393.80	1,031.80	362.00	25.9722	48.6053	11/13
	4	1,031.80	884.20	147.60	14.3051	55.9574	11/14
	5	884.20	713.90	170.30	19.2603	64.4401	11/15
20	01	502.30	468.00	34.30	6.8286	6.8286	11/09
to	2	468.00	405.10	62.90	13.4402	19.3510	11/12
10	3	405.10	248.80	156.30	38.5831	50.4678	11/13
	4	248.80	195.50	53.30	21.4228	61.0790	11/14
	5	195.50	110.10	85.40	43.6829	78.0808	11/15
10	01	100.03	93.58	6.45	6.4481	6.4481	11/09
to	2	93.58	82.53	11.05	11.8081	17.4948	11/12
5	3	82.53	65.12	17.41	21.0954	34.8995	11/13
	4	65.12	36.00	29.12	44.7174	64.0108	11/14
	5	36.00	24.27	11.73	32.5833	75.7373	11/15
5	01	100.00	90.33	9.67	9.67	9.67	11/09
to	2	90.33	72.95	17.38	19.24	27.05	11/12
2.5	3	72.95	54.57	18.38	25.20	45.43	11/13
	4	54.57	35.70	18.87	34.58	64.30	11/14
	5	35.70	27.14	8.56	23.98	72.86	11/15

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Date \_\_\_\_\_

TEST FOR SOUNDNESS OF ROCKS

Project: AREP BEVER PROJECT

Sampled by: ANTONIO SANTOS

Location: SARAY, ILOILO

Sampled at: JOSIEFF, SARA, ILOILO

Requested by: DOMILO SANTOS

Sampled on: OCTOBER 8, 1984

Source: CONCRETE COVERED MATERIAL

Quarry Designation: DDM - R<sub>2</sub> ; SAMPLE NO. 1

Laboratory Sample No.: AP - 84 - 07

Core Depth: \_\_\_\_\_

PURPOSE: \_\_\_\_\_

SIEVE SIZE (mm.)	CYCLE NO.	INITIAL DRY WEIGHT OF TEST FRACTIONS BEFORE TEST (grams)	FINAL DRY WEIGHT OF TEST FRACTIONS AFTER TEST (grams)	LOSS OF WEIGHT (grms.)	PERCENT LOSS	WEIGHTED PERCENT LOSS	
2.5	01	100.00	91.52	8.48	8.48	8.48	11/09
to	2	91.52	78.21	13.31	14.54	21.79	11/12
1.2	3	78.21	68.62	9.59	12.26	31.38	11/13
	4	68.62	57.75	10.87	15.84	42.25	11/14
	5	57.75	50.40	7.35	12.73	49.60	11/15
1.2	01	100.00	92.09	7.91	7.91	7.91	11/09
to	2	92.09	87.51	4.58	4.97	12.49	11/12
0.6	3	87.51	83.47	4.04	4.62	16.53	11/13
	4	83.47	77.61	5.86	7.02	22.39	11/14
	5	77.61	71.75	5.86	7.55	28.25	11/15
0.6	01	100.00	89.36	10.64	10.64	10.64	11/09
to	2	89.36	84.95	4.41	4.94	15.05	11/12
0.3	3	84.95	81.46	3.49	4.11	18.54	11/13
	4	81.46	71.91	9.55	11.72	28.09	11/14
	5	71.91	68.74	3.17	4.41	31.26	11/15
AVERAGE LOSS FOR GRAVEL =				72.753	%		
AVERAGE LOSS FOR SAND =				45.492	%		
TOTAL AVERAGE LOSS =				57.175	%		
--- END ---							

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TEST FOR SOUNDNESS OF ROCKS

Project: AGUE RIVER PROJECT Sampled by: ANTONIO SANTOS  
 Location: SARA, ILOILO Sampled at: SOBSITE, SARA, ILOILO  
 Requested by: ANTONIO SANTOS Sampled on: OCTOBER 08, 1984  
 Source: CONCRETE RECOVERY MATERIAL Quarry Designation: DDH-R<sub>2</sub> ; SAMPLE NO. 2  
 Laboratory Sample No.: AP - ST - 08 Core Depth: \_\_\_\_\_

PURPOSE: TO DETERMINE PERCENT LOSS OF TOTAL SAMPLE AFTER FIVE TEST CYCLE ON-H<sub>2</sub>SO<sub>4</sub>  
DATE STARTED: NOVEMBER 8, 1984 ; DATE COMPLETED: NOVEMBER 16, 1984.

SIEVE SIZE (mm.)	CYCLE NO.	INITIAL DRY WEIGHT OF TEST FRACTIONS BEFORE TEST (grams)	FINAL DRY WEIGHT OF TEST FRACTIONS AFTER TEST (grams)	LOSS OF WEIGHT (grms.)	PERCENT LOSS	WEIGHT PERCENT LOSS	
40	01	2,006.00	1,957.80	48.20	2.4028	2.4028	11/09
to	2	1,957.80	1,159.80	798.00	40.7600	42.1834	11/12
20	3	1,159.80	1,038.30	121.50	10.4759	48.2403	11/13
	4	1,038.30	709.60	328.70	31.6575	64.6261	11/14
	5	709.60	608.00	101.60	14.3179	69.6909	11/15
20	01	503.20	483.30	19.90	3.9547	3.9547	11/09
to	2	483.30	328.30	155.00	32.0712	34.7576	11/12
10	3	328.30	256.80	71.50	21.7789	48.9666	11/13
	4	256.80	186.60	70.20	27.3364	62.9173	11/14
	5	186.60	142.60	44.00	23.5798	71.6614	11/15
10	01	100.11	91.29	8.82	8.8103	8.8103	11/09
to	2	91.29	60.25	31.04	34.0015	39.8162	11/12
5	3	60.25	43.76	16.49	27.3693	56.2801	11/13
	4	43.76	28.56	15.20	34.7349	71.4714	11/14
	5	28.56	27.53	1.03	3.6064	72.5002	11/15
5	01	100.00	91.37	8.63	8.63	8.63	11/09
to	2	91.37	72.69	18.68	20.44	27.31	11/12
2.5	3	72.69	59.50	13.19	18.14	40.50	11/14
	4	59.50	49.26	10.24	17.21	50.74	11/15
	5	49.26	43.36	5.90	11.98	56.64	11/16

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TEST FOR SOUNDNESS OF ROCKS

Project: AGUE RIVER PROJECT Sampled by: ANTONIO SANTOS  
 Location: AGUE RIVER Sampled at: MORSTE, SALA, ILOILO  
 Requested by: ANTONIO SANTOS Sampled on: OCTOBER 8, 1984  
 Source: CONCRETE REPAIR MATERIALS Quarry Designation: DDH-5; SAMPLE NO. 2  
 Laboratory Sample No.: AP - ST - 00 Core Depth: \_\_\_\_\_

PURPOSE: \_\_\_\_\_

SIEVE SIZE (Mm.)	CYCLE NO.	INITIAL DRY WEIGHT OF TEST FRACTIONS BEFORE TEST (grams)	FINAL DRY WEIGHT OF TEST FRACTIONS AFTER TEST (grams)	LOSS OF WEIGHT (grams.)	PERCENT LOSS	WEIGHTED PERCENT LOSS	
2.5	01	100.00	90.75	9.25	9.25	9.25	11/09
to	2	90.75	66.71	24.04	24.29	31.29	11/12
1.2	3	66.71	59.44	9.27	13.49	40.56	11/14
No. 8	4	59.44	47.38	12.06	20.29	52.62	11/15
16	5	47.38	44.83	2.55	5.38	55.17	11/16
1.2	01	100.00	90.46	9.54	9.54	9.54	11/09
to	2	90.46	78.93	11.53	12.74	21.07	11/12
0.6	3	78.93	72.88	6.05	7.66	27.12	11/14
No. 16	4	72.88	67.76	5.12	7.02	32.21	11/15
30	5	67.76	63.01	4.75	7.01	36.92	11/16
0.6	01	100.00	83.10	6.90	6.90	6.90	11/09
to	2	83.10	83.53	0.66	10.36	16.17	11/12
0.3	3	83.53	81.63	1.90	2.27	18.37	11/14
No. 30	4	81.63	74.59	7.04	8.62	25.41	11/15
50	5	74.59	71.07	3.52	4.72	28.93	11/16
AVERAGE: LOSS PER GRAVEL = 71.284 %							
AVERAGE: LOSS FOR SAND = 44.432 %							
TOTAL AVERAGE LOSS = 55.940 %							

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TEST FOR SOUNDNESS OF ROCKS

Project: ASUE RIVER PROJECT      Sampled by: ANTONIO SANTOS  
 Location: SARA, ILOILO      Sampled at: 1 JOBSITE, SARA, ILOILO  
 Requested by: ANTONIO SANTOS      Sampled on: OCTOBER 8, 1984  
 Source: CORRECOVERY MATERIALS      Quarry Designation: DDH - R<sub>3</sub> ; SAMPLE NO. 3  
 Laboratory Sample No.: AP - ST - 09      Core Depth: \_\_\_\_\_

PURPOSE: TO DETERMINE PERCENT LOSS OF TOTAL SAMPLE AFTER FIVE TEST CYCLE ON- $Na_2SO_4$   
DATE STARTED: NOVEMBER 12, 1984; DATE CONCLUDED ; NOVEMBER 19, 1984.

SIEVE SIZE (Mm.)	CYCLE NO.	INITIAL DRY WEIGHT OF TEST FRACTIONS BEFORE TEST (grams)	FINAL DRY WEIGHT OF TEST FRACTIONS AFTER TEST (grams)	LOSS OF WEIGHT (grms.)	PERCENT LOSS	WEIGHTED PERCENT LOSS	
40	01	2,201.20	1,999.60	201.60	9.1586	9.1586	11/13
to	2	1,999.60	1,942.50	57.10	2.8556	11.7527	11/14
20	3	1,942.50	1,566.4	376.10	19.3616	26.8398	11/15
	4	1,566.40	1,037.00	529.40	33.7972	52.8093	11/16
	5	1,037.00	906.20	130.80	12.1633	58.8315	11/19
20	01	500.10	493.80	6.30	1.2597	1.2597	11/13
to	2	493.80	495.50	13.30	2.9445	23.9152	11/14
10	3	390.50	333.00	47.50	12.4836	33.4133	11/15
	4	333.00	312.00	21.00	6.3063	37.6124	11/16
	5	312.00	296.70	15.30	4.9038	40.6719	11/19
10	01	100.22	97.57	2.65	2.6442	2.6442	11/13
to	2	97.57	82.70	14.87	15.2403	17.4815	11/14
5	3	82.70	74.00	8.70	10.5200	26.1624	11/15
	4	74.00	70.47	3.53	4.7703	29.6847	11/16
	5	70.47	67.02	3.45	4.8957	33.1271	11/19
5	01	100.00	94.92	5.08	5.08	5.08	11/13
to	2	94.92	86.53	8.39	8.84	13.77	11/14
2.5	3	86.53	82.14	4.39	5.07	14.00	11/15
	4	82.14	77.63	4.51	5.49	22.37	11/16
	5	77.63	75.74	1.89	2.43	24.26	11/19



ASUE RIVER PROJECT  
SARA, ILOILO  
ANTONIO SANTOS  
CORE RECOVERY MATERIALS

AP - ST - 09

ANTONIO SANTOS  
JOBITE, SARA, ILOILO  
OCTOBER 8, 1984

DIE - P<sub>3</sub> ; SAMPLE NO. 3

2.5	01	100.00	94.56	5.44	5.44	5.44	11/13
to	2	94.56	88.23	6.33	6.69	11.77	11/14
1.2	3	88.23	83.50	4.73	5.36	16.50	11/15
	4	85.50	80.36	3.14	3.76	19.64	11/16
	5	80.36	77.93	2.43	3.02	22.07	11/19
1.20	01	100.00	88.73	11.27	11.27	11.27	11/13
to	2	88.73	80.27	6.46	9.53	19.73	11/14
0.6	3	80.27	77.62	2.65	3.30	22.38	11/15
	4	77.62	74.40	3.22	4.15	25.60	11/16
	5	74.40	71.98	2.42	3.25	28.02	11/19
0.6	01	100.00	81.28	18.72	18.72	18.72	11/13/
to	2	81.28	76.48	4.80	5.90	23.52	11/14
0.3	3	76.48	73.95	2.53	3.31	26.05	11/15
	4	73.95	72.00	1.95	2.64	28.00	11/16
	5	72.00	69.85	2.15	2.99	30.15	11/19

AVERAGE LOSS FOR GRAVEL = 44.810 %

AVERAGE LOSS FOR SAND = 26.125 %

TOTAL AVERAGE LOSS = 29.143 %

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ASUE RIVER PROJECT

SARA, ILOILO

ANTONIO SANTOS

COKE RECOVERY MATERIALS

AP - ST - 10

ANTONIO SANTOS

JOBSTER, SARA, ILOILO

OCTOBER 8, 1984

UNIT R R3 ; SAMPLE NO. 4  
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TO DETERMINE PERCENT LOSS OF TOTAL SAMPLE AFTER FIVE TEST CYCLES ON No. 20<sup>4</sup>  
DATA STARTED: NOVEMBER 12, 1984; DATE COMPLETED: NOVEMBER 17, 1984.

40	01	2,034.70	2,053.50	1.20	0.0590	0.0590	11/13
to	2	2,033.50	2,051.60	1.90	0.0934	0.1524	11/14
20	3	2,031.60	2,020.20	11.40	0.5611	0.7126	11/15
	4	2,020.20	1,930.50	89.70	4.4402	5.1211	11/16
	5	1,930.50	1,911.00	18.70	0.9687	6.0402	11/17
20	01	500.20	500.00	0.20	0.0400	0.0400	11/13
to	2	500.00	482.90	17.10	3.4200	3.4586	11/14
10	3	482.90	469.20	13.70	2.8370	6.1975	11/15
	4	469.20	451.90	17.30	3.6871	9.6561	11/16
	5	451.90	441.70	10.20	2.2571	11.6953	11/17
10	01	100.87	100.45	0.42	0.1193	0.1193	11/13
to	2	100.45	99.95	0.50	0.4978	0.6165	11/14
5	3	99.95	99.08	0.87	0.8704	1.4816	11/15
	4	99.08	97.66	1.42	1.4332	2.8935	11/16
	5	97.66	96.94	3.63	3.7170	3.6094	11/17
5	01	100.00	97.50	2.50	2.50	2.50	11/13
to	2	97.50	95.79	1.71	1.75	4.21	11/14
2.5	3	95.79	93.16	2.63	8.74	6.84	11/15
	4	93.16	92.34	0.82	0.88	7.66	11/16
	5	92.34	91.77	0.57	0.62	8.23	11/17

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ASUE RIVER PROJECT  
SARA, ILOILO  
ANTONIO SANTOS  
CORE RECOVERY MATERIALS

ANTONIO SANTOS  
JOBSITE, SARA, ILOILO  
OCTOBER 8, 1984  
DDH - R3 ; SAMPLE NO. 4

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2.5	01	100.00	94.99	5.01	5.01	5.01	11/13
to	2	94.99	92.91	2.08	2.19	7.09	11/14
1.2	3	92.99	89.82	3.09	3.32	10.18	11/15
	4	89.92	88.99	0.83	0.92	11.01	11/16
	5	88.99	87.90	1.09	1.22	12.10	11/17
1.2	01	100.00	95.18	4.82	4.82	4.82	11/13
to	2	95.18	93.98	1.22	1.28	6.04	11/14
0.6	3	93.96	91.60	2.36	2.51	8.40	11/15
	4	91.60	90.79	0.81	0.88	9.21	11/16
	5	90.79	89.81	0.98	1.08	10.19	11/17
0.6	01	100.00	94.81	5.19	5.19	5.19	11/13
to	2	94.81	93.51	1.30	1.37	6.49	11/14
0.3	3	93.51	91.38	2.13	2.28	8.62	11/15
	4	91.38	90.39	0.99	1.08	9.61	11/16
	5	90.39	88.95	1.44	1.59	11.05	11/17

AVERAGE LOSS FOR GRAVEL = 7.115 %

AVERAGE LOSS FOR SAND = 10.392 %

TOTAL AVERAGE LOSS = 8.988 %



WATER RESOURCES STUDY



1964	Serruco D.D. System			Gubaton D.D. System			AsueSouth Subsystem			Asue D.D. System			Catinayan D.D. System		
	Dischg.	Water Reqt.	Surpl./Deficit	Dischg.	Water Reqt.	Surpl./Deficit	Dischg.	Water Reqt.	Surpl./Deficit	Dischg.	Water Reqt.	Surpl./Deficit	Dischg.	Water Reqt.	Surpl./Deficit
Jan.	0.6084	0.4262	0.1765	0.4954	0.4454	0.0499	0.2254	0.3649	-0.1395	0.2888	3.7569	-3.4681	0.8569	3.6309	-2.7740
Feb.	0.3241	0.1532	0.1710	0.2661	0.0042	0.2619	0.4328	0.0035	0.4294	0.1551	0.0344	0.1207	0.7328	0.0015	0.7313
Mar.	0.2717	0.0856	0.2035	0.2380	0.0000	0.2380	0.4444	0.0000	0.4444	0.1374	0.0000	0.1374	0.4444	0.0000	0.4444
Apr.	0.1897	0.0000	0.1897	0.1557	0.0000	0.1557	0.1920	0.0000	0.1920	0.1061	0.0000	0.1061	0.4430	0.0000	0.4430
May	0.1761	0.0000	0.1761	0.1445	0.0000	0.1445	0.1084	0.0000	0.1084	0.0943	0.0000	0.0943	0.7875	-1.7032	0.2743
Jun.	0.1824	0.1224	0.3753	0.3788	0.3788	0.0000	0.3773	0.3977	0.0676	0.2307	0.8955	0.0707	-2.8400	0.0000	-2.0796
Jul.	1.5203	0.1879	3.3227	1.2483	0.1640	0.1083	2.4170	0.1343	2.2827	0.7277	1.3318	-0.6041	4.7761	0.6640	4.1121
Aug.	0.4852	0.0521	0.2338	0.8094	0.0000	0.8094	1.7432	0.0000	1.7432	0.4719	0.0000	0.4719	2.9879	0.0000	2.9879
Sep.	0.7938	0.0000	0.7938	0.6515	0.0107	0.6408	1.4344	0.0087	1.4257	0.3798	0.0866	0.2932	1.8020	0.0039	1.7981
Oct.	1.1149	0.0151	1.0998	0.9153	0.2358	0.6794	1.7793	0.1932	1.5861	0.5336	1.9158	-1.3822	2.8728	1.4684	1.4044
Nov.	1.0623	0.0944	0.9680	0.8721	0.1080	0.7641	1.7321	0.0895	1.6426	0.5084	0.8772	-0.3888	2.7809	0.4082	2.3826
Dec.	1.2121	0.1885	1.0435	0.9951	0.0000	0.9951	2.0386	0.0000	2.0386	0.5801	0.0000	0.5801	2.0572	0.0000	2.0572
Year	27.1491	3.4300	23.7691	22.3294	3.8450	18.5519	42.2533	3.1499	39.1036	13.0175	31.4366	-18.4190	66.5006	24.7702	41.7303

1965	Serruco D.D. System			Gubaton D.D. System			AsueSouth Subsystem			Asue D.D. System			Catinayan D.D. System		
	Dischg.	Water Reqt.	Surpl./Deficit	Dischg.	Water Reqt.	Surpl./Deficit	Dischg.	Water Reqt.	Surpl./Deficit	Dischg.	Water Reqt.	Surpl./Deficit	Dischg.	Water Reqt.	Surpl./Deficit
Jan.	0.8248	0.2435	0.3811	0.5127	0.2501	0.2626	0.6437	0.2049	0.4388	0.2989	2.0319	-1.7328	0.7620	1.9242	-1.0523
Feb.	0.3610	0.1750	0.1860	0.0040	0.0000	0.2924	0.4784	0.0033	0.4751	0.1728	0.0326	0.1402	0.6705	0.0015	0.6690
Mar.	0.2280	0.0137	0.2143	0.1872	0.0000	0.1872	0.4015	0.0000	0.4015	0.1091	0.0000	0.1091	0.4557	0.0000	0.4557
Apr.	0.2571	0.0000	0.2571	0.2127	0.0000	0.2127	0.4719	0.0000	0.4719	0.1240	0.0000	0.1240	0.5274	0.0000	0.5274
May	0.1773	0.0000	0.1773	0.1456	0.0000	0.1456	0.0792	0.1996	-0.1205	0.0949	2.1000	-2.0152	0.3422	2.1042	-1.7620
Jun.	0.2295	0.1341	0.0953	0.1884	0.3758	-0.0921	0.3000	0.3079	-0.3079	0.1098	3.4524	-3.3426	0.5759	4.7999	-2.9040
Jul.	0.8449	0.2355	0.4113	0.5310	0.1972	0.3338	0.7552	0.1533	0.6019	0.3096	1.5203	-1.2107	1.9176	1.2791	0.5365
Aug.	0.8993	0.1492	0.7500	0.7383	0.0000	0.7383	1.9883	0.0000	1.9883	0.4304	0.0000	0.4304	1.7165	0.0000	1.7165
Sep.	0.8199	0.1322	0.6877	0.6731	0.0000	0.6731	1.3609	0.0000	1.3609	0.3924	0.0000	0.3924	1.4313	0.0000	1.4313
Oct.	0.7360	0.0245	0.7115	0.7684	0.0000	0.7684	3.3395	0.0000	3.3395	0.7329	0.0000	0.7329	1.7864	2.4337	-0.6473
Nov.	0.7795	0.2254	0.5530	0.6391	0.3063	0.3328	0.9859	0.6349	0.3510	0.3726	2.4880	-2.1154	1.2106	2.2273	-1.0168
Dec.	0.6816	0.0000	0.6816	0.5111	0.0000	0.5111	0.3094	0.0000	0.3094	0.3094	3.7019	-3.3916	0.8238	3.5556	-2.7328
Year	26.3384	3.2917	23.0466	21.6228	4.4900	17.4951	40.2220	3.6783	36.6437	12.6056	37.3715	-24.7659	63.9067	31.5235	32.2831





1968	Serruco D.D. System			Gubaton D.D. System			Asue South Subsystem			Asue D.D. System			Catipayan D.D. System		
	Serruco Dischg.	Water Regat.	Surpl./Deficit	Gubaton Dischg.	Water Regat.	Surpl./Deficit	Asue South Dischg.	Water Regat.	Surpl./Deficit	Asue D.D. Dischg.	Water Regat.	Surpl./Deficit	Catipayan Dischg.	Water Regat.	Surpl./Deficit
Jan.	0.4048	0.2955	0.1093	0.3323	0.2749	0.0574	0.1707	0.1707	0.0000	0.1937	2.2855	-2.0918	0.5812	2.1930	-1.6118
Feb.	0.2826	0.2147	0.0679	0.2407	0.1877	0.0530	0.1417	0.1417	0.0000	1.4494	1.4774	-0.0280	0.5076	0.5649	-0.0574
Mar.	0.2321	0.2247	0.0074	0.1963	0.0044	0.1919	0.2063	0.0036	0.2027	0.1154	0.0361	0.0783	0.3957	0.0016	0.3971
Apr.	0.2696	0.1833	0.0863	0.1877	0.0000	0.1877	0.2730	0.0000	0.2730	0.1094	0.0000	0.1094	0.3548	0.0000	0.3548
May	0.2026	0.0480	0.1546	0.1347	0.0000	0.1347	0.1864	0.0000	0.1864	0.0970	0.0000	0.0970	0.4042	0.0000	0.4042
Jun.	0.2704	0.4159	0.2545	0.5304	0.0044	0.5349	0.8004	0.0036	0.7968	0.3209	0.0361	0.2848	1.1548	0.0016	1.1531
Jul.	0.2123	0.1963	0.0160	0.1743	0.0000	0.1743	0.3706	0.0000	0.3706	0.1016	0.0000	0.1016	0.3374	0.0000	0.3374
Aug.	0.2027	0.0000	0.2027	0.1664	0.0000	0.1664	0.3491	0.0000	0.3491	0.0970	0.0000	0.0970	0.3092	0.0000	0.3092
Sep.	0.2116	0.0000	0.2116	0.1939	0.0000	0.1939	0.3858	0.0000	0.3858	0.1014	0.0000	0.1014	0.3092	0.0000	0.3092
Oct.	0.2249	0.0160	0.2089	0.5146	0.0000	0.5146	1.1255	0.0000	1.1255	0.3000	0.0000	0.3000	0.7566	0.0000	0.7566
Nov.	0.1819	0.0000	0.1819	0.1410	0.0000	0.1410	0.3714	0.0000	0.3714	0.0870	0.0000	0.0870	0.2537	0.0000	0.2537
Dec.	0.1618	0.0000	0.1618	0.1409	0.0000	0.1409	0.2472	0.0000	0.2472	0.0822	0.0000	0.0822	0.2564	0.0000	0.2564
Year	0.5134	0.0000	0.5134	0.4231	0.0000	0.4231	0.9386	0.0000	0.9386	2.467	0.0000	0.0775	0.2280	0.0000	0.2280

1969	Serruco D.D. System			Gubaton D.D. System			Asue South Subsystem			Asue D.D. System			Catipayan D.D. System		
	Serruco Dischg.	Water Regat.	Surpl./Deficit	Gubaton Dischg.	Water Regat.	Surpl./Deficit	Asue South Dischg.	Water Regat.	Surpl./Deficit	Asue D.D. Dischg.	Water Regat.	Surpl./Deficit	Catipayan Dischg.	Water Regat.	Surpl./Deficit
Jan.	0.4198	0.2257	0.1941	0.3445	0.2412	0.1034	0.2974	0.1975	0.0998	0.2009	1.9594	-1.7587	0.6181	1.8449	-1.2268
Feb.	0.3648	0.2757	0.0891	0.2895	0.1752	0.1143	0.2133	0.1455	0.0698	0.1746	1.4250	-1.2485	0.6493	1.5125	-0.8631
Mar.	0.3038	0.2603	0.0435	0.2494	0.0927	0.1567	0.2002	0.0759	0.1247	0.1454	0.7550	-0.6076	0.5479	0.6414	-0.0935
Apr.	0.2883	0.2817	0.0066	0.2326	0.0935	0.5091	0.3244	0.1171	0.2039	0.5209	4.1355	-3.6148	1.8083	3.3008	-1.4925
May	0.2491	0.1735	0.0756	0.2045	0.0047	0.1998	0.2754	0.0039	0.2715	0.1192	0.0384	0.0808	0.6728	0.0017	0.6710
Jun.	0.2215	0.1539	0.0676	0.1819	0.0000	0.1819	0.2507	0.0000	0.2507	0.1040	0.0000	0.1040	0.6324	0.0000	0.6324
Jul.	0.1935	0.0923	0.1012	0.1664	0.0000	0.1664	0.2417	0.0000	0.2417	0.0791	0.0000	0.0791	0.5130	0.0000	0.5130
Aug.	0.2539	0.3854	0.2504	0.5220	0.0047	0.5173	0.7678	0.0039	0.7639	0.3043	0.0384	0.2659	1.4181	0.0017	1.4164
Sep.	0.2078	0.1163	0.0915	0.1704	0.0000	0.1704	0.3521	0.0000	0.3521	0.0994	0.0000	0.0994	0.4247	0.0000	0.4247
Oct.	0.1900	0.0000	0.1900	0.1560	0.0000	0.1560	0.3460	0.0000	0.3460	0.0909	0.0000	0.0909	0.3503	0.0000	0.3503
Nov.	0.1953	0.0900	0.1053	0.1603	0.0000	0.1603	0.3555	0.0000	0.3555	0.0935	0.0000	0.0935	0.3192	0.0000	0.3192
Dec.	0.5931	0.0163	0.5768	0.4869	0.0000	0.4869	1.0637	0.0000	1.0637	0.2839	0.0000	0.2839	1.0942	0.0000	1.0942
Year	0.1670	0.0000	0.1670	0.1371	0.0000	0.1371	0.3041	0.0000	0.3041	0.0799	0.0000	0.0799	0.2574	0.0000	0.2574

1970	Serruco D.D. System			Gubaton D.D. System			AsueSouth Subsystem			Asue D.D. System			Catipayan D.D. System		
	Serruco Dischg.	Water Reqat.	Surplus/Deficit	Gubaton Dischg.	Water Reqat.	Surplus/Deficit	AsueSouth Dischg.	Water Reqat.	Surplus/Deficit	Asue Dischg.	Water Reqat.	Surplus/Deficit	Catipayan Dischg.	Water Reqat.	Surplus/Deficit
Jan.	0.5124	0.0570	0.4554	0.4206	0.0641	0.3565	0.8110	0.1749	0.6361	0.2452	0.3211	-0.0759	1.0117	0.2957	0.7160
Feb.	0.3372	0.2652	0.0720	0.2789	0.0802	0.1987	0.2677	0.0637	0.2040	0.1613	0.1511	-0.0198	0.2981	0.1591	0.1390
Mar.	0.2455	0.5671	0.3216	0.2034	0.3060	0.0926	0.3969	0.2307	0.1662	0.5766	0.2489	0.3277	0.3203	0.0010	0.3193
Apr.	0.2671	0.0745	0.1926	0.2193	0.0041	0.2153	0.4079	0.0033	0.4046	0.1279	0.0330	0.0919	0.0330	0.0015	0.3230
May	0.2055	0.0739	0.1316	0.2506	0.0000	0.2506	0.4821	0.0000	0.4821	0.146	0.0000	0.1461	0.0000	0.0000	0.3269
Jun.	0.2471	0.0568	0.1903	0.2850	0.0000	0.2850	0.5854	0.0000	0.5854	0.166	0.0000	0.1661	0.0000	0.0000	0.3307
Jul.	0.2195	0.1830	0.0365	0.2549	0.0041	0.2508	0.4954	0.0033	0.4921	0.4401	0.0330	0.4071	0.0000	0.0015	0.3495
Aug.	0.2988	0.0137	0.2851	0.2457	0.0000	0.2457	0.5055	0.0000	0.5055	0.1430	0.0000	0.1430	0.0000	0.0000	0.3474
Sep.	0.2994	0.0000	0.2994	0.2477	0.0000	0.2477	0.5081	0.0000	0.5081	0.1874	0.0000	0.1874	0.0000	0.0000	0.3478
Oct.	0.2777	0.0000	0.2777	0.2490	0.0000	0.2490	0.5092	0.0000	0.5092	0.1763	0.0000	0.1763	0.0000	0.0000	0.3485
Nov.	0.2660	0.0137	0.2523	0.2430	0.0000	0.2430	0.5090	0.0000	0.5090	0.1823	0.0000	0.1823	0.0000	0.0000	0.3495
Dec.	0.1795	0.0000	0.1795	0.1466	0.0000	0.1466	0.3752	0.0000	0.3752	0.0855	0.0000	0.0855	0.0000	0.0000	0.3452
Year	2.5832	0.0000	2.5832	2.2827	0.0000	2.2827	3.3638	0.0000	3.3638	2.2827	0.0000	2.2827	0.0000	0.0000	2.2827

1971	Serruco D.D. System			Gubaton D.D. System			AsueSouth Subsystem			Asue D.D. System			Catipayan D.D. System		
	Serruco Dischg.	Water Reqat.	Surplus/Deficit	Gubaton Dischg.	Water Reqat.	Surplus/Deficit	AsueSouth Dischg.	Water Reqat.	Surplus/Deficit	Asue Dischg.	Water Reqat.	Surplus/Deficit	Catipayan Dischg.	Water Reqat.	Surplus/Deficit
Jan.	1.4190	0.0409	1.3781	1.1841	0.4241	0.7599	2.5172	0.0197	2.4975	0.4787	0.1954	0.2833	3.3412	0.0088	3.3324
Feb.	0.9230	0.0288	0.8942	0.7359	0.0674	0.6685	1.8418	0.0243	1.8175	0.4439	0.2806	0.1633	2.1484	0.0117	2.1367
Mar.	0.1666	0.2637	0.0971	0.2997	0.1189	0.1808	0.5857	0.0773	0.5084	0.5155	0.0649	0.4506	0.5907	0.1535	0.4372
Apr.	0.5400	0.1279	0.4121	0.5400	0.0038	0.5362	1.0661	0.0031	1.0630	0.3148	0.0308	0.2840	0.9891	0.0014	0.9877
May	0.4466	0.0539	0.3927	0.3927	0.0000	0.3927	1.1134	0.0000	1.1134	0.3068	0.0000	0.3068	1.5356	0.0000	1.5356
Jun.	0.7434	0.2293	0.5141	0.4329	0.0038	0.4291	0.2945	0.0031	0.2914	0.2138	0.0000	0.2138	0.5998	0.0000	0.5998
Jul.	0.4274	0.0139	0.4135	0.3509	0.0000	0.3509	0.7643	0.0000	0.7643	0.0354	0.0000	0.0354	0.0014	0.0014	0.7629
Aug.	0.4440	0.0000	0.4440	0.3897	0.0000	0.3897	0.9937	0.0000	0.9937	0.2868	0.0000	0.2868	0.4408	0.0000	0.4408
Sep.	0.2959	0.0000	0.2959	0.4810	0.0000	0.4810	0.0669	0.0000	0.0669	0.2804	0.0000	0.2804	0.8798	0.0000	0.8798
Oct.	0.2637	0.0139	0.2498	2.1816	0.0000	2.1816	4.8250	0.0000	4.8250	1.2718	0.0000	1.2718	6.8812	0.0000	6.8812
Nov.	0.2699	0.0000	0.2699	0.3036	0.0000	0.3036	0.6735	0.0000	0.6735	0.1770	0.0000	0.1770	0.6735	0.0000	0.6735
Dec.	0.2712	0.0000	0.2712	0.4769	0.0000	0.4769	0.4938	0.0000	0.4938	0.1298	0.0000	0.1298	0.3468	0.0000	0.3468
Year	5.5111	0.0000	5.5111	4.5732	0.0000	4.5732	10.0000	0.0000	10.0000	5.5111	0.0000	5.5111	14.1414	0.0000	14.1414

1972	Serruco D.D. System			Gubaton D.D. System			AsueSouth Subsystem			Asue D.D. System			Catinayan D.D. System		
	Serruco Dischg.	Water Regat.	Surplus/Deficit	Gubaton Dischg.	Water Regat.	Surplus/Deficit	AsueSouth Dischg.	Water Regat.	Surplus/Deficit	Asue D.D. Dischg.	Water Regat.	Surplus/Deficit	Catinayan Dischg.	Water Regat.	Surplus/Deficit
Jan.	2.8449	0.0778	2.7671	2.3355	0.0990	2.2366	5.0037	0.0811	4.9226	1.3819	0.8036	0.5783	6.7447	0.9302	5.8145
Feb.	1.4108	0.0102	1.4006	1.7630	0.0276	1.7354	2.8148	0.0100	2.8048	0.7767	0.1049	0.6718	2.1169	0.0047	2.1122
Mar.	0.5188	0.0880	0.4308	5.0890	0.1395	4.9495	11.0602	0.1143	10.9459	0.8760	0.1439	0.7321	1.8333	0.1091	1.7242
Apr.	0.5423	0.0137	0.5286	0.4452	0.0000	0.4452	0.9736	0.0000	0.9736	0.5064	0.0384	0.4680	1.1779	0.0017	1.1753
May	0.3490	0.0000	0.3490	0.3450	0.0000	0.3450	0.9924	0.0000	0.9924	0.3153	0.0000	0.3153	0.9257	0.0000	0.9257
Jun.	0.5443	0.0139	0.5304	1.2678	0.0000	1.2678	2.9982	0.0000	2.9982	0.3016	0.0000	0.3016	0.7291	0.0000	0.7291
Jul.	0.5923	0.0000	0.5923	0.3221	0.0000	0.3221	0.7145	0.0000	0.7145	1.2233	0.0384	1.1849	2.8318	0.0017	2.8301
Aug.	0.3490	0.0000	0.3490	0.3221	0.0000	0.3221	0.7145	0.0000	0.7145	0.2595	0.0000	0.2595	0.7081	0.0000	0.7081
Sep.	0.3490	0.0000	0.3490	0.3221	0.0000	0.3221	0.7145	0.0000	0.7145	0.2595	0.0000	0.2595	0.7081	0.0000	0.7081
Oct.	0.3490	0.0000	0.3490	0.3221	0.0000	0.3221	0.7145	0.0000	0.7145	0.2595	0.0000	0.2595	0.7081	0.0000	0.7081
Nov.	0.3490	0.0000	0.3490	0.3221	0.0000	0.3221	0.7145	0.0000	0.7145	0.2595	0.0000	0.2595	0.7081	0.0000	0.7081
Dec.	0.3490	0.0000	0.3490	0.3221	0.0000	0.3221	0.7145	0.0000	0.7145	0.2595	0.0000	0.2595	0.7081	0.0000	0.7081
Year	30.4466	3.1227	27.3239	24.9954	5.3837	20.0001	46.9356	4.4105	42.5251	14.5718	44.5435	29.9717	66.5149	37.8132	28.9017
1973	Serruco D.D. System			Gubaton D.D. System			AsueSouth Subsystem			Asue D.D. System			Catinayan D.D. System		
Jan.	0.5890	0.2775	0.2915	0.4672	0.2847	0.1825	0.4740	0.2532	0.2408	0.7223	2.3127	2.0404	7.7409	2.1444	5.6035
Feb.	0.4207	0.3096	0.1121	0.3154	0.1990	0.1164	0.2595	0.1630	0.0954	0.2013	1.6169	-1.4153	0.6349	1.4800	-0.8531
Mar.	0.3287	0.2951	0.0336	0.2699	0.0923	0.1776	0.2211	0.0756	0.1455	0.1573	0.7487	-0.2641	0.5897	0.8261	-0.2374
Apr.	0.3184	0.8712	0.4473	1.0824	0.5760	0.5064	0.9536	0.4719	0.4817	0.6310	4.6790	-4.0480	1.9745	4.2585	-2.2840
May	0.2539	0.2187	0.0352	0.2085	0.0043	0.2041	0.2394	0.0035	0.2359	0.1215	0.0351	0.0864	0.4743	0.0016	0.4727
Jun.	0.2454	0.1151	0.1303	0.2014	0.0000	0.2014	0.3317	0.0000	0.3317	0.1174	0.0000	0.1174	0.4517	0.0000	0.4517
Jul.	0.1089	0.9552	0.1346	0.1550	0.0000	0.1550	0.2895	0.0000	0.2895	0.0903	0.0000	0.0903	0.3216	0.0000	0.3216
Aug.	0.6880	0.3880	0.3001	0.5649	0.0043	0.5605	0.3606	0.0035	0.3571	0.3293	0.0351	0.2941	1.2475	0.0016	1.2460
Sep.	0.2259	0.0190	0.2069	0.1954	0.0000	0.1954	0.3932	0.0000	0.3932	0.1081	0.0000	0.1081	0.3624	0.0000	0.3624
Oct.	0.3144	0.0000	0.3144	0.1749	0.0000	0.1749	0.3904	0.0000	0.3904	0.1026	0.0000	0.1026	0.2636	0.0000	0.2636
Nov.	0.3185	0.0000	0.3185	0.1956	0.0000	0.1956	0.4342	0.0000	0.4342	0.1141	0.0000	0.1141	0.5192	0.0000	0.5192
Dec.	0.6787	0.0190	0.6597	0.5572	0.0000	0.5572	1.2178	0.0000	1.2178	0.3248	0.0000	0.3248	1.2046	0.0000	1.2046
Year	0.1979	0.0000	0.1979	0.1624	0.0000	0.1624	0.3601	0.0000	0.3601	0.0947	0.0000	0.0947	0.3064	0.0000	0.3064
Jan.	0.1689	0.0000	0.1689	0.1449	0.0000	0.1449	0.3211	0.0000	0.3211	0.0944	0.0000	0.0944	0.2589	0.0000	0.2589
Feb.	0.1689	0.0000	0.1689	0.1449	0.0000	0.1449	0.3211	0.0000	0.3211	0.0944	0.0000	0.0944	0.2589	0.0000	0.2589
Mar.	0.1689	0.0000	0.1689	0.1449	0.0000	0.1449	0.3211	0.0000	0.3211	0.0944	0.0000	0.0944	0.2589	0.0000	0.2589
Apr.	0.1689	0.0000	0.1689	0.1449	0.0000	0.1449	0.3211	0.0000	0.3211	0.0944	0.0000	0.0944	0.2589	0.0000	0.2589
May	0.1689	0.0000	0.1689	0.1449	0.0000	0.1449	0.3211	0.0000	0.3211	0.0944	0.0000	0.0944	0.2589	0.0000	0.2589
Jun.	0.1689	0.0000	0.1689	0.1449	0.0000	0.1449	0.3211	0.0000	0.3211	0.0944	0.0000	0.0944	0.2589	0.0000	0.2589
Jul.	0.1689	0.0000	0.1689	0.1449	0.0000	0.1449	0.3211	0.0000	0.3211	0.0944	0.0000	0.0944	0.2589	0.0000	0.2589
Aug.	0.1689	0.0000	0.1689	0.1449	0.0000	0.1449	0.3211	0.0000	0.3211	0.0944	0.0000	0.0944	0.2589	0.0000	0.2589
Sep.	0.1689	0.0000	0.1689	0.1449	0.0000	0.1449	0.3211	0.0000	0.3211	0.0944	0.0000	0.0944	0.2589	0.0000	0.2589
Oct.	0.1689	0.0000	0.1689	0.1449	0.0000	0.1449	0.3211	0.0000	0.3211	0.0944	0.0000	0.0944	0.2589	0.0000	0.2589
Nov.	0.1689	0.0000	0.1689	0.1449	0.0000	0.1449	0.3211	0.0000	0.3211	0.0944	0.0000	0.0944	0.2589	0.0000	0.2589
Dec.	0.1689	0.0000	0.1689	0.1449	0.0000	0.1449	0.3211	0.0000	0.3211	0.0944	0.0000	0.0944	0.2589	0.0000	0.2589
Year	43.2715	3.1831	40.0884	35.5242	4.3233	31.7155	72.1636	3.5418	68.6218	20.7099	37.6463	16.9363	101.0850	30.8112	70.2736

1974	Serruco D. D. System			Gubaton D. D. System			AsueSouth Subsystem			Asue D. D. System			Catipayan D. D. System		
	Serruco Dischgo.	Water Regat.	Surplis/Deficit	Gubaton Dischgo.	Water Regat.	Surplis/Deficit	AsueSouth Dischgo.	Water Regat.	Surplis/Deficit	Asue D. D. Dischgo.	Water Regat.	Surplis/Deficit	Catipayan Dischgo.	Water Regat.	Surplis/Deficit
Jan.	1.6006	0.0000	1.6006	1.3797	0.0253	1.3544	3.0351	0.0207	3.0144	0.0043	0.0043	0.0000	2.4781	0.0000	2.4781
Feb.	0.9095	0.0534	0.7562	0.7467	0.0039	0.7429	1.4990	0.0031	1.4959	0.4353	0.0312	0.4041	0.9008	0.0014	0.9022
Mar.	0.4354	0.0000	0.4354	0.4188	0.0000	0.4188	0.4311	0.0000	0.4311	0.0000	0.0000	0.0000	0.4311	0.0000	0.4311
Apr.	0.3481	0.0000	0.3481	0.2857	0.0000	0.2857	0.6338	0.0000	0.6338	0.0000	0.0000	0.0000	0.4982	0.0000	0.4982
May	0.2944	0.0000	0.2944	0.2667	0.0000	0.2667	0.3419	0.0000	0.3419	0.1373	0.1555	0.0182	0.5041	0.0000	0.5041
Jun.	0.4242	0.1255	0.2987	0.3498	0.4140	0.0000	0.2341	0.3743	0.1602	0.2033	0.4678	0.2845	0.0004	0.4159	2.8153
Jul.	0.4065	0.1664	0.2401	0.4369	0.2655	0.1714	0.4652	0.2845	0.2015	0.2015	0.2015	0.0000	0.5687	0.0000	0.5687
Aug.	0.5091	0.2156	0.4343	0.5344	0.1604	0.3740	0.8083	0.1314	0.6769	0.3115	0.3026	0.0000	0.2255	0.0000	0.2255
Sep.	0.8270	0.0266	0.7704	0.7268	0.0000	0.7268	1.5089	0.0000	1.5089	0.4130	0.0000	0.4130	1.7205	0.0000	1.7205
Oct.	0.6383	0.0201	0.6182	0.2732	0.0265	0.5467	1.2437	0.0217	1.2220	0.3836	0.3836	0.0000	0.4741	0.0000	0.4741
Nov.	0.4458	0.1308	0.3150	0.1870	0.1442	0.0427	0.3577	0.1182	0.2395	0.6920	1.1716	0.4797	0.5124	0.0000	0.5124
Dec.	1.2963	0.0968	1.1995	1.0642	0.0000	1.0642	2.2637	0.0000	2.2637	0.6204	0.0000	0.6204	2.1112	0.0000	2.1112
Year	32.9407	2.6129	30.3278	27.0430	3.5722	23.6712	53.7986	2.9264	50.8722	15.7655	29.2702	13.5047	70.2164	22.9657	47.2507

1975	Serruco D. D. System			Gubaton D. D. System			AsueSouth Subsystem			Asue D. D. System			Catipayan D. D. System		
	Serruco Dischgo.	Water Regat.	Surplis/Deficit	Gubaton Dischgo.	Water Regat.	Surplis/Deficit	AsueSouth Dischgo.	Water Regat.	Surplis/Deficit	Asue D. D. Dischgo.	Water Regat.	Surplis/Deficit	Catipayan Dischgo.	Water Regat.	Surplis/Deficit
Jan.	1.1451	0.0063	1.1388	0.9401	0.0266	0.9135	2.0523	0.0218	2.0305	0.5480	0.2157	0.3323	2.3562	0.0097	2.3465
Feb.	0.5189	0.2100	0.4089	0.5091	0.0044	0.5037	0.9127	0.0038	0.9089	0.7091	0.2962	0.4129	0.7903	0.0016	0.7919
Mar.	0.2674	0.0000	0.2674	0.2441	0.0000	0.2441	0.5414	0.0000	0.5414	0.1423	0.0000	0.1423	0.5414	0.0000	0.5414
Apr.	0.2551	0.0000	0.2551	0.2494	0.0000	0.2494	0.4953	0.0000	0.4953	0.5635	0.0000	0.5635	0.0000	0.0000	0.5635
May	0.6257	0.0000	0.6257	0.5726	0.2296	0.3430	0.9477	0.1881	0.8596	0.8524	0.3338	1.1861	0.1039	0.6152	0.5112
Jun.	0.4441	0.1450	0.2991	0.3646	0.3647	0.0000	0.2990	0.2988	0.0003	0.2126	2.9626	-2.7500	0.9240	0.0000	1.9593
Jul.	0.3749	0.3000	0.0749	0.4720	0.2618	0.2102	0.9855	0.2145	0.7710	0.2706	0.2752	0.0000	0.7376	0.0000	0.7376
Aug.	0.7980	0.0596	0.7384	0.6067	0.0000	0.6067	1.2961	0.0000	1.2961	0.3537	0.0000	0.3537	1.8424	0.0000	1.8424
Sep.	0.9957	0.0184	0.9774	0.9175	0.0149	0.9026	1.7800	0.0122	1.7678	0.4766	0.1206	0.3560	2.8251	0.0054	2.8197
Oct.	2.0706	0.0777	1.9929	1.8999	0.1838	1.5161	3.5090	0.1506	3.3584	0.9910	1.4933	-0.5023	4.6409	0.5693	4.0714
Nov.	1.4918	0.3055	1.1863	1.2255	0.1910	0.9345	2.2218	0.1853	2.0365	0.7144	1.5515	-0.8370	1.4974	0.0000	1.4974
Dec.	5.4737	0.1907	5.2830	4.4937	0.0919	4.4018	9.8849	0.0753	9.8096	2.6198	0.7454	1.8744	13.1142	0.0000	13.1142
Year	38.1058	2.6240	35.4818	31.2834	3.2921	27.9914	63.4731	2.6970	60.7761	18.2375	26.7419	-8.5044	90.6057	17.0669	73.5457



1976	Serrucco D.D. System			Gubaton D.D. System			AsueSouth Subsystem			Asue D.D. System			Catipayan D.D. System		
	Serrucco Dischg.	Water Regat.	Surpl./Deficit	Gubaton Dischg.	Water Regat.	Surpl./Deficit	AsueSouth Dischg.	Water Regat.	Surpl./Deficit	Asue Dischg.	Water Regat.	Surpl./Deficit	Catipayan Dischg.	Water Regat.	Surpl./Deficit
Jan.	1.3999	0.0000	1.3999	1.4476	0.0317	1.1175	2.5173	0.0260	2.4913	0.6699	0.2575	0.4124	2.0437	0.0116	2.0321
Feb.	0.8802	0.4280	0.4522	0.8802	0.0000	0.8802	0.8802	0.0000	0.8802	0.4582	0.3491	0.1071	1.0107	0.0157	1.0264
Mar.	0.5348	0.1509	0.3839	0.4390	0.0000	0.4390	0.8428	0.0000	0.8428	0.2698	0.0000	0.2698	0.7812	0.0000	0.7812
Apr.	0.3116	0.0480	0.2636	0.3116	0.0000	0.3116	0.5760	0.0000	0.5760	0.1903	0.0000	0.1903	0.3829	0.0000	0.3829
May	0.2544	0.0000	0.2544	0.2088	0.0000	0.2088	0.2757	0.0000	0.2757	0.1217	0.0000	0.1217	0.1507	0.0000	0.1507
Jun.	0.4965	0.1011	0.3954	0.4078	0.2845	0.1231	0.5188	0.2371	0.2815	0.2378	0.2959	0.0319	0.9523	0.0000	0.9523
Jul.	0.3872	0.0408	0.3464	0.3195	0.3363	0.0000	0.0230	0.2755	0.2526	0.1857	0.2844	-2.7798	0.6345	0.9217	-2.2972
Aug.	0.4549	0.2293	0.2256	0.3734	0.4771	0.1261	0.2473	0.4729	0.1033	0.3695	0.2177	0.1246	-0.8069	0.9334	0.1265
Sep.	0.2600	0.0000	0.2600	0.2600	0.0000	0.2600	0.2600	0.0000	0.2600	0.1698	0.4333	3.1710	0.0076	3.7093	0.1080
Oct.	0.1987	0.0342	0.1645	0.1987	0.0000	0.1987	0.1987	0.0000	0.1987	0.1307	0.7874	3.1416	0.8461	2.2955	1.1714
Nov.	0.6771	0.2411	0.4360	0.5559	0.3702	0.1857	0.6217	0.3033	0.3184	0.3241	3.0072	-2.6831	0.9888	2.8184	-2.0096
Dec.	0.3160	0.0304	0.2856	0.2856	0.0000	0.2856	0.2856	0.0000	0.2856	0.2075	0.5827	-3.7571	1.3888	0.0000	0.7261
Year	30.3205	3.3123	27.0082	24.8919	4.2955	20.6529	47.6147	3.5108	44.1038	14.5115	35.0641	-20.5526	67.6699	29.0699	38.5941

1977	Serrucco D.D. System			Gubaton D.D. System			AsueSouth Subsystem			Asue D.D. System			Catipayan D.D. System		
	Serrucco Dischg.	Water Regat.	Surpl./Deficit	Gubaton Dischg.	Water Regat.	Surpl./Deficit	AsueSouth Dischg.	Water Regat.	Surpl./Deficit	Asue Dischg.	Water Regat.	Surpl./Deficit	Catipayan Dischg.	Water Regat.	Surpl./Deficit
Jan.	1.0232	0.0000	1.0232	0.8400	0.0234	0.8166	1.8399	0.0192	1.8207	0.4897	0.1901	0.2997	1.5464	0.0085	1.5379
Feb.	0.7077	0.0208	0.6869	0.5910	0.0038	0.5773	1.2642	0.0031	1.2611	0.3397	0.0305	0.3082	1.1305	0.0014	1.1291
Mar.	0.4122	0.0000	0.4122	0.3394	0.0000	0.3394	0.7306	0.0000	0.7306	0.1973	0.0000	0.1973	0.7405	0.0000	0.7405
Apr.	0.2677	0.0000	0.2677	0.2198	0.0000	0.2198	0.4975	0.0000	0.4975	0.1291	0.0000	0.1291	0.3676	0.0000	0.3676
May	0.2221	0.0000	0.2221	0.1923	0.0000	0.1923	0.1564	0.0000	0.1564	0.1053	0.0000	0.1053	0.3908	0.0000	0.3908
Jun.	0.4052	0.1054	0.2998	0.3327	0.4025	0.0000	0.2299	0.3299	0.0999	0.1979	3.3698	-3.1750	1.2463	3.3230	-2.0766
Jul.	0.8588	0.1879	0.6709	0.7052	0.1427	0.5625	1.2335	0.1169	1.1166	0.4111	1.1593	-0.7493	2.5007	0.8004	1.7003
Aug.	0.2551	0.0811	0.1740	0.1720	0.8497	0.0000	0.8497	0.0000	0.8497	0.0793	0.0000	0.0793	0.67918	0.0000	0.67918
Sep.	0.1024	0.0000	0.1024	0.0722	0.0074	0.0648	0.9273	0.0061	0.9212	0.5085	0.0400	0.4485	0.0027	0.31152	0.6077
Oct.	0.8432	0.0208	0.8224	0.8727	0.0000	0.8727	0.8727	0.0000	0.8727	0.4035	1.9148	-1.5113	0.9075	4.5974	0.3100
Nov.	0.6163	0.2365	0.3798	0.5059	0.3226	0.1833	0.5631	0.2543	0.2988	0.2950	2.6208	-2.3258	0.8426	2.4437	-1.6011
Dec.	0.3160	0.0304	0.2856	0.2856	0.0000	0.2856	0.2856	0.0000	0.2856	0.2075	0.5827	-3.7571	1.3888	0.0000	0.7261
Year	25.8174	2.7950	23.0322	21.1950	4.9642	16.5165	39.2631	4.0668	35.1962	12.3563	40.6246	-28.2684	60.0272	35.7947	24.2325

1978	Serruco D.D. System			Gubatón D.D. System			AsueSouth Subsystem			Asue D.D. System			Catipayan I.D. System		
	Serruco Discng.	Water Regat.	Surplus/Deficit	Gubatón Discng.	Water Regat.	Surplus/Deficit	AsueSouth Discng.	Water Regat.	Surplus/Deficit	Asue Discng.	Water Regat.	Surplus/Deficit	Catipayan Discng.	Water Regat.	Surplus/Deficit
Jan. 1	0.3081	0.3063	0.0018	0.2530	0.3091	-0.0544	0.0000	0.2532	0.2532	0.1475	2.8187	-2.6712	0.6154	2.7841	-2.1687
Feb. 1	0.3313	0.3366	-0.0053	0.1800	0.2137	-0.0337	0.0000	0.1750	-0.1750	0.1107	1.9345	-1.8238	0.5306	1.2019	-0.6712
Mar. 1	0.2706	0.3181	-0.0475	0.1898	0.1124	0.0775	0.0775	0.0921	-0.0146	0.1107	0.9274	-0.8167	0.5042	0.9579	-0.4537
Apr. 1	0.2004	0.2370	-0.0366	0.4346	0.0047	0.4299	0.1599	0.0038	0.1540	0.0959	0.0381	0.0579	0.4036	0.0017	0.4019
May 1	0.1916	0.1513	0.0403	0.1375	0.0000	0.1375	0.0000	0.0000	0.0000	0.0917	0.0000	0.0917	0.3617	0.0000	0.3617
Jun. 1	0.1475	0.0587	0.0888	0.4429	0.0047	0.4382	0.3675	0.0038	0.3635	0.2582	0.0000	0.2582	0.2557	0.0000	0.2557
Jul. 1	0.5393	0.4468	0.0925	0.4429	0.0047	0.4382	0.3675	0.0038	0.3635	0.2582	0.0000	0.2582	0.0304	0.0017	0.0287
Aug. 1	0.1760	0.0198	0.1562	0.1445	0.0000	0.1445	0.3005	0.0000	0.3005	0.0842	0.0000	0.0842	0.5033	0.0000	0.5033
Sep. 1	0.1663	0.0000	0.1663	0.1365	0.0000	0.1365	0.3027	0.0000	0.3027	0.0796	0.0000	0.0796	0.2733	0.0000	0.2733
Oct. 1	0.1719	0.0000	0.1719	0.1412	0.0000	0.1412	0.3131	0.0000	0.3131	0.0923	0.0000	0.0923	0.2719	0.0000	0.2719
Nov. 1	0.5142	0.0198	0.4944	0.4221	0.0000	0.4221	0.9185	0.0000	0.9185	0.2461	0.0000	0.2461	0.8486	0.0000	0.8486
Dec. 1	0.1464	0.0000	0.1464	0.1202	0.0000	0.1202	0.2667	0.0000	0.2667	0.0701	0.0000	0.0701	0.2319	0.0000	0.2319
Year	2.1344	0.0000	2.1344	1.728	0.0000	1.728	2.882	0.0000	2.882	0.958	0.0000	0.958	3.2449	0.0000	3.2449

1979	Serruco D.D. System			Gubatón D.D. System			AsueSouth Subsystem			Asue D.D. System			Catipayan I.D. System		
	Serruco Discng.	Water Regat.	Surplus/Deficit	Gubatón Discng.	Water Regat.	Surplus/Deficit	AsueSouth Discng.	Water Regat.	Surplus/Deficit	Asue Discng.	Water Regat.	Surplus/Deficit	Catipayan Discng.	Water Regat.	Surplus/Deficit
Jan. 1	0.5592	0.2098	0.3493	0.4590	0.2146	0.2444	0.5337	0.1758	0.4179	0.2676	1.2433	-1.4757	0.7455	1.5541	-0.8086
Feb. 1	0.4261	0.3008	0.1253	0.3449	0.1940	0.1509	0.5204	0.1520	0.1111	0.2011	1.5763	-1.2324	0.6169	1.4461	-0.8292
Mar. 1	0.3466	0.3109	0.0357	0.2845	0.0900	0.1945	0.5204	0.0737	0.1567	0.1639	0.7311	-0.6533	0.5924	0.5924	0.0000
Apr. 1	1.3259	0.8214	0.5045	1.0885	0.4987	0.5898	1.0943	0.4085	0.6858	0.6346	4.0507	-3.4162	1.9452	3.5984	-1.6531
May 1	0.2394	0.2171	0.0223	0.1947	0.0059	0.1908	0.2134	0.0048	0.2086	0.1147	0.0478	0.0669	0.4967	0.0021	0.4945
Jun. 1	0.2163	0.1550	0.0613	0.1775	0.0000	0.1775	0.2388	0.0000	0.2388	0.1035	0.0000	0.1035	0.4984	0.0000	0.4984
Jul. 1	0.1444	0.0675	0.0769	0.1148	0.0000	0.1148	0.2388	0.0000	0.2388	0.0787	0.0000	0.0787	0.3211	0.0000	0.3211
Aug. 1	0.6202	0.4397	0.1805	0.5092	0.3059	0.2033	0.6838	0.0048	0.6790	0.2988	0.0478	0.2491	1.3161	0.0021	1.3140
Sep. 1	0.1978	0.0171	0.1807	0.1624	0.0000	0.1624	0.3431	0.0000	0.3431	0.0947	0.0000	0.0947	0.4024	0.0000	0.4024
Oct. 1	0.5565	0.0000	0.5565	0.3057	0.0000	0.3057	0.6729	0.0000	0.6729	0.1769	0.0000	0.1769	1.2081	0.0000	1.2081
Nov. 1	0.3949	0.0000	0.3949	0.1834	0.0000	0.1834	0.4045	0.0000	0.4045	0.1043	0.0000	0.1043	0.4400	0.0000	0.4400
Dec. 1	0.7894	0.0171	0.7723	0.6481	0.0000	0.6481	1.4204	0.0000	1.4204	0.3778	0.0000	0.3778	2.0505	0.0000	2.0505
Year	0.7721	0.0000	0.7721	0.413	0.0000	0.413	0.3134	0.0000	0.3134	0.0924	0.0000	0.0924	0.3335	0.0000	0.3335
Jan. 1	0.5989	0.0000	0.5989	0.4585	0.0000	0.4585	1.2170	0.0000	1.2170	0.787	0.0000	0.787	0.2274	0.0000	0.2274
Feb. 1	0.3120	0.0000	0.3120	0.2885	0.0000	0.2885	0.5776	0.0000	0.5776	0.375	0.0000	0.375	0.7829	0.0000	0.7829
Mar. 1	0.0456	0.0000	0.0456	0.8584	0.0000	0.8584	1.7040	0.0000	1.7040	0.5094	0.0000	0.5094	3.3518	0.0000	3.3518
Apr. 1	0.1938	0.0000	0.1938	0.1591	0.2494	0.0000	0.1044	0.2035	0.0927	2.1173	-2.0245	0.3944	2.1153	0.0000	2.1153
May 1	0.3021	0.0000	0.3021	0.2480	0.1446	0.1033	0.4055	0.1184	0.2870	0.1444	-1.0298	1.2416	1.0827	0.1589	0.1589
Jun. 1	0.3459	0.0000	0.3459	0.2939	0.3509	0.0000	0.2789	0.2874	0.0095	1.6355	-2.6492	1.4304	2.8214	1.3810	1.3810
Jul. 1	0.9417	0.0000	0.9417	0.6910	0.7439	0.1034	0.7888	0.6094	0.1794	0.4028	6.1504	-5.7475	3.0544	6.0194	2.9630
Aug. 1	1.7808	0.0323	1.7484	1.4619	1.1385	1.3234	3.0718	0.1135	2.9583	0.8523	1.1254	-0.2731	6.0865	0.3277	5.7627
Sep. 1	2.7434	0.0237	2.7197	2.2545	0.1546	2.0977	4.8175	0.1266	4.6909	1.3130	2.2555	-0.0575	8.0002	0.0565	7.9438
Oct. 1	1.1550	0.1451	0.9707	0.7755	0.2951	0.6474	1.5181	0.2325	1.2856	0.5436	-1.7720	2.7453	1.8767	0.8691	0.8691
Nov. 1	0.6800	0.2211	0.4589	0.6466	0.3792	0.2685	0.3074	0.4737	0.0337	2.7089	-4.6765	1.9876	16.8320	2.2569	14.5755
Dec. 1	0.8392	0.3357	0.5035	0.6889	0.2335	0.4555	0.9590	0.1913	0.7677	0.4016	1.8983	-1.4947	1.1976	1.5800	0.3824
Year	0.6595	0.2144	0.4452	0.7412	0.2323	0.5092	0.2444	0.1903	0.5641	0.3157	1.8867	-1.5714	0.7842	1.6561	0.8712
Jan. 1	0.6774	0.0000	0.6774	1.3771	0.0174	1.3597	3.0571	0.0000	3.0571	0.0229	0.0000	0.0229	1.1853	0.0000	1.1853
Feb. 1	0.7090	0.6647	0.0443	0.4657	0.0272	0.4385	3.2715	0.5815	12.8894	3.7833	0.0020	19.0980	3.2361	15.8619	15.8619
Mar. 1	1.3200	0.2066	1.1134	1.0837	0.0000	1.0837	2.1970	0.0000	2.1970	0.6318	0.0000	0.6318	2.0121	0.0000	2.0121
Apr. 1	1.8037	0.0606	1.7431	1.4800	0.0000	1.4800	3.2239	0.0000	3.2239	0.8633	0.0000	0.8633	4.3882	0.0000	4.3882
May 1	0.6774	0.0000	0.6774	1.3771	0.0174	1.3597	3.0571	0.0000	3.0571	0.0229	0.0000	0.0229	1.1853	0.0000	1.1853
Jun. 1	4.8012	0.2672	4.5339	3.9416	0.0174	3.9241	8.4581	0.0143	8.4438	2.2979	0.1417	-2.1562	10.0784	0.0064	10.0720
Jul. 1	1.2227	0.0000	1.2227	1.0038	0.0229	0.9810	2.2039	0.0187	2.1851	0.5852	0.1850	-0.4002	2.0742	0.0083	2.0658
Aug. 1	1.7950	0.0000	1.7950	1.0469	0.9439	0.1030	2.1899	0.0843	2.1056	0.6102	0.3020	-0.2257	2.8825	0.2634	2.6192
Sep. 1	0.9664	0.0158	0.9506	0.9439	0.3050	0.6389	1.4390	0.2499	1.1891	0.4625	2.0150	-1.1628	1.1628	0.4644	0.6977
Oct. 1	3.4642	0.0158	3.4484	2.8439	0.4307	2.4133	5.8617	0.5328	5.3289	0.5088	1.6580	-1.8405	0.1195	3.3981	3.2783
Nov. 1	0.9313	0.0063	0.9250	0.7810	0.2034	0.5776	1.7476	0.1667	1.5809	0.4533	-1.973	1.9083	1.9083	1.2716	0.6367
Dec. 1	0.9417	0.1494	0.7923	0.7727	0.5365	0.2362	1.0280	0.4395	0.5895	0.4505	-3.9076	0.8744	4.1036	2.2674	2.2674
Year	0.7823	0.2474	0.5349	0.6423	0.1820	0.4603	1.7162	0.3770	1.3392	0.3744	3.3584	-3.3640	1.0308	3.3241	2.5013
Jan. 1	2.6749	0.4631	2.2118	1.2002	0.9958	1.2092	3.2675	0.9832	2.2843	1.2802	9.7490	-8.4688	4.8133	8.7074	4.0940
Feb. 1	0.7563	0.2379	0.5185	0.6209	0.2612	0.3597	0.8782	0.2140	0.6643	0.3620	2.1217	-1.7597	1.6025	1.5551	0.0474
Mar. 1	0.6199	0.3679	0.2520	0.5036	0.3684	0.1352	0.9853	0.3018	0.6834	0.2948	2.9927	-2.6980	1.0572	2.8326	1.1354
Apr. 1	0.8192	0.2455	0.5737	0.5083	0.2506	0.2578	0.6114	0.2053	0.4061	0.2943	2.0354	-1.7391	1.2077	1.8306	0.6230
May 1	0.8414	0.8512	-0.0098	0.6348	0.8802	-0.2454	1.8948	0.9271	0.9678	0.9531	7.1484	-6.1968	3.8674	0.5183	2.6510
Jun. 1	0.5933	0.1495	0.4438	0.4871	0.3335	0.1536	0.8973	0.0275	0.8698	0.2836	0.2728	-0.0111	1.2838	0.0081	1.2727
Year	0.4349	0.2551	0.1798	0.3570	0.1064	0.2506	0.802	0.2839	0.5181	0.4874	0.1905	-0.3069	0.4537	0.0081	0.4456
Year	2.0465	0.4044	1.6421	1.6801	0.4024	1.2778	2.9195	0.3295	2.5900	0.9795	3.3522	-2.3827	8.4229	2.8478	

1980	Serrucco D.D. System			Subaton D.D. System			AsueSouth Subsystem			Asue D.D. System			Catipayan T.D. System		
	Dischq.	Water Reqt.	Surpl./Deficit	Dischq.	Water Reqt.	Surpl./Deficit	Dischq.	Water Reqt.	Surpl./Deficit	Dischq.	Water Reqt.	Surpl./Deficit	Dischq.	Water Reqt.	Surpl./Deficit
Jan.	0.5169	0.0000	0.5169	0.4243	0.0300	0.3944	0.2113	0.0244	0.1869	0.2474	0.2435	0.0039	0.7877	0.0110	0.7767
Feb.	0.4941	0.0159	0.5099	0.4056	0.0282	0.3774	0.2058	0.0215	0.1843	0.2465	0.0045	0.0020	0.7865	0.0084	0.7949
Mar.	0.4313	0.1644	0.5957	0.1750	0.1651	0.0099	0.2749	0.1353	0.1396	0.0650	0.5111	0.0527	0.8628	0.7437	2.1192
Apr.	0.3683	0.2319	0.5999	0.1365	0.2023	0.0658	0.4342	0.0039	0.4304	0.1262	0.0372	0.1370	0.6537	0.0017	0.6520
May	0.3143	0.3074	0.6217	0.0900	0.2880	0.1980	0.4480	0.0000	0.4480	0.1244	0.0000	0.1244	0.6527	0.0000	0.6527
Jun.	0.2172	0.0573	0.2745	0.1598	0.0000	0.1598	0.3480	0.0000	0.3480	0.0789	0.0000	0.0789	0.6527	0.0000	0.6527
Jul.	0.0997	0.0935	0.2032	0.1786	0.0000	0.1786	0.2402	0.0000	0.2402	0.0000	0.0000	0.0000	0.6527	0.0000	0.6527
Aug.	0.2179	0.0155	0.2024	0.1786	0.0000	0.1786	0.3812	0.0000	0.3812	0.0000	0.0000	0.0000	0.6527	0.0000	0.6527
Sep.	0.2070	0.0000	0.2070	0.1700	0.0000	0.1700	0.3716	0.0000	0.3716	0.0000	0.0000	0.0000	0.6527	0.0000	0.6527
Oct.	0.2265	0.0000	0.2265	0.1606	0.0000	0.1606	0.3670	0.0000	0.3670	0.0000	0.0000	0.0000	0.6527	0.0000	0.6527
Nov.	1.3514	0.0155	1.3669	1.1094	0.0000	1.1094	2.4453	0.0000	2.4453	0.4468	0.0000	0.4468	0.6527	0.0000	0.6527
Dec.	0.2948	0.0000	0.2948	0.2420	0.0000	0.2420	0.5384	0.0000	0.5384	0.4811	0.0000	0.4811	0.6527	0.0000	0.6527
Year	3.9235	0.0000	3.9235	3.1668	0.0000	3.1668	6.2336	0.0000	6.2336	6.0829	0.0000	6.0829	6.0829	0.0000	6.0829

1981	Serrucco D.D. System			Subaton D.D. System			AsueSouth Subsystem			Asue D.D. System			Catipayan T.D. System		
	Dischq.	Water Reqt.	Surpl./Deficit	Dischq.	Water Reqt.	Surpl./Deficit	Dischq.	Water Reqt.	Surpl./Deficit	Dischq.	Water Reqt.	Surpl./Deficit	Dischq.	Water Reqt.	Surpl./Deficit
Jan.	0.8852	0.0000	0.8852	0.7267	0.0267	0.7000	1.5852	0.0219	1.5633	0.4237	0.2156	0.2070	1.1816	0.0097	1.1718
Feb.	0.7375	0.2099	0.5276	0.5972	0.1466	0.4506	0.9683	0.1201	0.8482	0.3482	1.1912	-0.8430	0.8852	0.8966	-0.0114
Mar.	0.6825	0.2177	0.4648	0.5604	0.0765	0.4839	0.7487	0.0627	0.6860	0.3267	0.6216	-0.2950	0.7022	0.3229	0.3793
Apr.	2.2952	0.4275	1.8677	1.8843	0.2498	1.6345	3.5022	0.2047	3.2975	1.0985	2.0294	-0.9309	3.0950	1.2292	1.8658
May	0.5088	0.0894	0.4194	0.4177	0.0033	0.4144	0.8359	0.0027	0.8331	0.2435	0.0266	0.2169	0.7115	0.0012	0.7103
Jun.	0.4178	0.1053	0.3125	0.3431	0.0000	0.3431	0.4537	0.0000	0.4537	0.2000	0.0000	0.2000	0.6119	0.0000	0.6119
Jul.	0.2625	0.0376	0.2249	0.2155	0.0000	0.2155	0.4403	0.0000	0.4403	0.1256	0.0000	0.1256	0.3380	0.0000	0.3380
Aug.	1.1892	0.2343	0.9549	0.9763	0.0033	0.9730	1.9288	0.0027	1.9272	0.5691	0.3266	0.5425	1.7614	0.0012	1.7602
Sep.	0.3234	0.0119	0.3115	0.3456	0.0000	0.3456	0.5773	0.0000	0.5773	0.1549	0.0000	0.1549	0.6573	0.0000	0.6573
Oct.	0.3039	0.0000	0.3039	0.3182	0.0000	0.3182	0.3697	0.0000	0.3697	0.1389	0.0000	0.1389	0.4645	0.0000	0.4645
Nov.	0.9178	0.0119	0.9059	0.7532	0.0000	0.7532	0.5534	0.0000	0.5534	0.1452	0.0000	0.1452	0.4496	0.0000	0.4496
Dec.	0.2642	0.0000	0.2642	0.2169	0.0000	0.2169	0.4911	0.0000	0.4911	0.1255	0.0000	0.1255	0.3841	0.0000	0.3841
Year	10.9531	0.0000	10.9531	10.2070	0.0000	10.2070	17.159	0.0000	17.159	6.0829	0.0000	6.0829	17.159	0.0000	17.159

1982	Serruco D.D. System			Gubaton D.D. System			AsueSouth Subsystem			Asue D.D. System			Catipayan D.D. System		
	Serruco Dischg.	Water Reqt.	Surplus/Deficit	Gubaton Dischg.	Water Reqt.	Surplus/Deficit	AsueSouth Dischg.	Water Reqt.	Surplus/Deficit	Asue Dischg.	Water Reqt.	Surplus/Deficit	Catipayan Dischg.	Water Reqt.	Surplus/Deficit
Jan.	0.5503	0.2286	0.1293	0.2929	0.2423	0.0506	0.1788	0.1985	-0.0198	0.1708	0.9082	-1.0174	0.5263	1.2060	-1.3097
Feb.	0.2085	0.1928	0.0157	0.1710	0.0041	0.1670	0.1827	0.0033	0.1793	0.0997	0.0330	0.0667	0.4859	0.0000	0.4859
Mar.	0.1590	0.0137	0.1453	0.1306	0.0000	0.1306	0.2759	0.0000	0.2759	0.0761	0.0000	0.0761	0.3321	0.0000	0.3321
Apr.	0.1529	0.0000	0.1529	0.1255	0.0000	0.1255	0.2783	0.0000	0.2783	0.0732	0.0000	0.0732	0.3333	0.0000	0.3333
May	0.1425	0.0000	0.1425	0.0874	0.0000	0.0874	0.0000	0.2012	-0.2012	0.0559	2.2369	-2.1810	0.2359	2.2727	-2.0368
Jun.	0.1614	0.1376	0.0238	0.1325	0.4716	-0.3152	0.0000	0.5963	-0.5963	0.0773	4.5323	-4.4550	0.4032	4.6273	-4.2241
Jul.	0.3054	0.3199	-0.0145	0.2867	0.4140	-0.1273	0.2331	0.5359	-0.3028	0.2740	1.9242	-1.6502	0.1299	1.7358	-0.7059
Aug.	0.8431	0.7031	0.1400	0.6922	0.0000	0.6922	1.1759	0.0000	1.1759	0.9194	3.2754	-2.3560	1.7986	2.9068	-1.1081
Sep.	0.9539	0.0000	0.9539	0.7832	0.0283	0.7549	1.7089	0.0232	1.6857	4.5666	0.2296	0.2296	1.8228	0.0103	1.8125
Oct.	0.7709	0.0929	0.6780	0.6328	0.2385	0.3944	1.0823	0.1954	0.8869	3.6899	1.9372	-1.5682	1.9592	1.4554	0.3038
Nov.	0.6308	0.3143	0.3165	0.2087	1.0459	-0.7272	0.0000	0.3952	0.3558	2.2363	1.1710	1.0637	5.0582	7.7012	-2.6430
Dec.	0.2029	0.2643	-0.0615	0.1665	0.3441	-0.1776	0.0000	0.2919	-0.2919	0.0971	3.2550	-3.1528	0.4693	3.2935	-0.2819
Year	18.0671	4.3119	13.7553	14.8324	6.4283	8.8053	23.4049	5.2663	18.1386	8.6470	55.8604	-47.2134	47.7281	52.5190	-4.7909
1983	Serruco D.D. System			Gubaton D.D. System			AsueSouth Subsystem			Asue D.D. System			Catipayan D.D. System		
Jan.	0.2239	0.1095	0.1144	0.1839	0.1360	0.0479	0.1523	0.1114	0.0509	0.1076	1.1043	-0.9774	0.7227	1.0470	-0.3243
Feb.	0.1375	0.1980	-0.0605	0.1179	0.0047	0.1182	0.1082	0.0038	0.1044	0.0658	0.0378	0.0279	0.3854	0.0017	0.3837
Mar.	0.1142	0.0159	0.0982	0.0937	0.0000	0.0937	0.1920	0.0000	0.1920	0.0544	0.0000	0.0544	0.2547	0.0000	0.2547
Apr.	0.0995	0.0000	0.0995	0.0736	0.0000	0.0736	0.1632	0.0000	0.1632	0.0429	0.0000	0.0429	0.1972	0.0000	0.1972
May	0.0686	0.0000	0.0686	0.0563	0.2541	-0.1855	0.0000	0.2082	-0.2082	0.0328	2.4016	-2.3688	0.1701	2.4616	-2.2915
Jun.	0.0957	0.1363	-0.0406	0.0796	0.4840	-0.4043	0.0000	0.3945	-0.3945	0.0458	4.7336	-4.6877	0.3189	4.8646	-4.5457
Jul.	0.1127	0.0706	0.0421	0.0913	0.0533	0.0390	0.1924	0.0519	0.1405	0.5326	0.5139	0.0187	3.2554	0.0231	3.2323
Aug.	0.1912	0.0835	0.1077	0.0779	0.0000	0.0779	0.2855	0.0000	0.2855	0.5701	2.7672	0.0000	0.7011	2.7672	0.0000
Sep.	0.1701	0.0000	0.1701	0.1291	0.0241	0.0940	0.4701	0.0243	0.4458	0.4577	0.3969	0.3969	0.8043	0.0107	0.7936
Oct.	0.1503	0.0000	0.1503	0.1174	0.0000	0.1174	0.2675	0.0000	0.2675	0.3800	0.2827	0.2827	1.1760	0.3188	0.8572
Nov.	0.1326	0.0658	0.0668	0.0545	0.0757	1.4288	3.1956	0.0620	3.1336	0.8771	0.6146	0.2624	4.8650	0.0276	4.8374
Dec.	0.1843	0.1270	0.0573	0.0723	0.0000	0.0723	0.2345	0.0000	0.2345	0.5668	0.0000	0.5668	1.8410	0.0000	1.8410
Year	28.2860	2.7118	25.5742	22.2217	3.7561	19.6710	48.6668	3.0771	43.5897	13.5272	33.4950	-20.1573	71.7493	47.5510	44.1974
20 year	30.6261	3.2980	27.3281	25.1428	4.3989	21.0010	48.3687	3.6037	44.7650	14.6577	36.7706	-22.1128	72.2878	29.9166	42.3712



Year	Category	Rain/Evaporation	Irrigation Diversions	Irrigation Deficit	Power Release	Domestic Release	Spill-Out	Reservoir	Usable for Power	Power Disc.	Dam Head	Site Output	Station Energy	Canal Output	R. Station Energy
	Disc. HCM	Evap. HCM	Divers. HCM	Deficit HCM	Release HCM	Release HCM	Out. HCM	Res. HCM	Power CHS	Disc. CHS	Head m	Output kW	Energy MWh	Output kW	Energy MWh
1954	Jan.	0.8569	-0.0694	3.6309	0.0000	0.0000	0.0000	25.0587	4.2024	3.0000	31.5042	625.356	150.088	741.030	177.847
	Feb.	0.7328	-0.0625	0.0015	0.0000	0.0000	0.0000	25.4013	0.0018	0.0000	30.7139	0.000	0.000	0.000	0.000
	Mar.	0.4449	-0.0025	0.0000	0.0000	0.0000	0.0000	26.1565	0.0000	0.0000	31.0956	0.000	0.000	0.000	0.000
	Apr.	0.3124	-0.0949	0.0000	0.0000	0.0000	0.0000	27.7567	0.0000	0.0000	32.0756	0.000	0.000	0.000	0.000
	May	0.3773	-0.0776	1.7807	0.0000	0.0000	0.0000	26.4171	2.0610	2.0610	31.9673	419.378	100.451	500.833	120.200
	Jun.	0.8985	-0.0033	2.9781	0.0000	0.0000	0.0000	25.8171	3.4469	3.0000	31.9083	627.615	151.108	741.030	177.847
	Jul.	0.7672	-0.0277	5.5278	0.0000	0.0000	0.0000	27.9271	2.7573	2.7573	30.7277	574.963	142.928	726.315	174.125
	Aug.	0.9879	-0.0642	3.1765	0.0000	0.0000	0.0000	27.7212	2.7502	1.9488	32.3420	592.867	292.295	460.770	342.813
	Sep.	0.8029	-0.0375	0.0039	0.0000	0.0000	0.0000	27.9000	3.0515	3.0515	32.2228	638.242	153.178	741.030	177.847
	Oct.	0.8728	-0.0348	1.4684	0.0000	0.0000	0.0000	27.9000	3.3653	3.0000	32.5000	644.012	154.563	741.030	177.847
	Nov.	0.7609	-0.0832	0.4082	0.0000	0.0000	0.0000	27.9000	3.2917	3.0000	32.5000	644.012	154.563	741.030	177.847
	Dec.	0.2057	-0.0301	0.0000	0.0000	0.0000	0.0000	27.9000	2.3461	2.3461	32.5000	488.590	112.362	570.841	136.954
1955	Jan.	0.7690	-0.0667	1.8242	0.0000	0.0000	0.0000	26.7781	2.1114	2.1114	32.0621	431.671	103.503	513.503	123.241
	Feb.	0.7405	-0.0636	0.0015	0.0000	0.0000	0.0000	25.1544	0.0004	0.0000	32.2355	0.000	0.000	0.000	0.000
	Mar.	0.4527	-0.0804	0.0000	0.0000	0.0000	0.0000	27.9000	0.4347	0.0000	32.5000	0.000	0.000	0.000	0.000
	Apr.	0.3224	-0.0731	0.0000	0.0000	0.0000	0.0000	27.9000	0.5200	0.0000	32.5000	0.000	0.000	0.000	0.000
	May	0.3822	-0.0627	2.1042	0.0000	0.0000	0.0000	26.0752	2.4354	2.4354	31.8770	500.475	120.114	595.374	142.978
	Jun.	0.8985	-0.0033	2.9781	0.0000	0.0000	0.0000	25.8171	3.4469	3.0000	31.9083	627.615	151.108	741.030	177.847
	Jul.	0.7672	-0.0277	5.5278	0.0000	0.0000	0.0000	27.9271	2.7573	2.7573	30.7277	574.963	142.928	726.315	174.125
	Aug.	0.9879	-0.0642	3.1765	0.0000	0.0000	0.0000	27.7212	2.7502	1.9488	32.3420	592.867	292.295	460.770	342.813
	Sep.	0.8029	-0.0375	0.0039	0.0000	0.0000	0.0000	27.9000	3.0515	3.0515	32.2228	638.242	153.178	741.030	177.847
	Oct.	0.8728	-0.0348	1.4684	0.0000	0.0000	0.0000	27.9000	3.3653	3.0000	32.5000	644.012	154.563	741.030	177.847
	Nov.	0.7609	-0.0832	0.4082	0.0000	0.0000	0.0000	27.9000	3.2917	3.0000	32.5000	644.012	154.563	741.030	177.847
	Dec.	0.2057	-0.0301	0.0000	0.0000	0.0000	0.0000	27.9000	2.3461	2.3461	32.5000	488.590	112.362	570.841	136.954
1964	Jan.	0.8470	-0.0143	0.8419	0.0000	0.0000	0.0000	26.7589	0.9744	0.9744	31.8217	168.477	40.434	206.127	49.471
	Feb.	0.7405	-0.0636	0.0015	0.0000	0.0000	0.0000	25.1544	0.0004	0.0000	32.2355	0.000	0.000	0.000	0.000
	Mar.	0.4527	-0.0804	0.0000	0.0000	0.0000	0.0000	27.9000	0.4347	0.0000	32.5000	0.000	0.000	0.000	0.000
	Apr.	0.3224	-0.0731	0.0000	0.0000	0.0000	0.0000	27.9000	0.5200	0.0000	32.5000	0.000	0.000	0.000	0.000
	May	0.3822	-0.0627	2.1042	0.0000	0.0000	0.0000	26.0752	2.4354	2.4354	31.8770	500.475	120.114	595.374	142.978
	Jun.	0.8985	-0.0033	2.9781	0.0000	0.0000	0.0000	25.8171	3.4469	3.0000	31.9083	627.615	151.108	741.030	177.847
	Jul.	0.7672	-0.0277	5.5278	0.0000	0.0000	0.0000	27.9271	2.7573	2.7573	30.7277	574.963	142.928	726.315	174.125
	Aug.	0.9879	-0.0642	3.1765	0.0000	0.0000	0.0000	27.7212	2.7502	1.9488	32.3420	592.867	292.295	460.770	342.813
	Sep.	0.8029	-0.0375	0.0039	0.0000	0.0000	0.0000	27.9000	3.0515	3.0515	32.2228	638.242	153.178	741.030	177.847
	Oct.	0.8728	-0.0348	1.4684	0.0000	0.0000	0.0000	27.9000	3.3653	3.0000	32.5000	644.012	154.563	741.030	177.847
	Nov.	0.7609	-0.0832	0.4082	0.0000	0.0000	0.0000	27.9000	3.2917	3.0000	32.5000	644.012	154.563	741.030	177.847
	Dec.	0.2057	-0.0301	0.0000	0.0000	0.0000	0.0000	27.9000	2.3461	2.3461	32.5000	488.590	112.362	570.841	136.954
1965	Jan.	0.7690	-0.0667	1.8242	0.0000	0.0000	0.0000	26.7781	2.1114	2.1114	32.0621	431.671	103.503	513.503	123.241
	Feb.	0.7405	-0.0636	0.0015	0.0000	0.0000	0.0000	25.1544	0.0004	0.0000	32.2355	0.000	0.000	0.000	0.000
	Mar.	0.4527	-0.0804	0.0000	0.0000	0.0000	0.0000	27.9000	0.4347	0.0000	32.5000	0.000	0.000	0.000	0.000
	Apr.	0.3224	-0.0731	0.0000	0.0000	0.0000	0.0000	27.9000	0.5200	0.0000	32.5000	0.000	0.000	0.000	0.000
	May	0.3822	-0.0627	2.1042	0.0000	0.0000	0.0000	26.0752	2.4354	2.4354	31.8770	500.475	120.114	595.374	142.978
	Jun.	0.8985	-0.0033	2.9781	0.0000	0.0000	0.0000	25.8171	3.4469	3.0000	31.9083	627.615	151.108	741.030	177.847
	Jul.	0.7672	-0.0277	5.5278	0.0000	0.0000	0.0000	27.9271	2.7573	2.7573	30.7277	574.963	142.928	726.315	174.125
	Aug.	0.9879	-0.0642	3.1765	0.0000	0.0000	0.0000	27.7212	2.7502	1.9488	32.3420	592.867	292.295	460.770	342.813
	Sep.	0.8029	-0.0375	0.0039	0.0000	0.0000	0.0000	27.9000	3.0515	3.0515	32.2228	638.242	153.178	741.030	177.847
	Oct.	0.8728	-0.0348	1.4684	0.0000	0.0000	0.0000	27.9000	3.3653	3.0000	32.5000	644.012	154.563	741.030	177.847
	Nov.	0.7609	-0.0832	0.4082	0.0000	0.0000	0.0000	27.9000	3.2917	3.0000	32.5000	644.012	154.563	741.030	177.847
	Dec.	0.2057	-0.0301	0.0000	0.0000	0.0000	0.0000	27.9000	2.3461	2.3461	32.5000	488.590	112.362	570.841	136.954



1968	Cattipyn Disch. MCM	Rain/ Evp. MCM	Irrigation Divers. MCM	Irrigation Deficit MCM	Power Release MCM	Domestic Release MCM	Spill- Out MCM	Reser- voir MCM	Usable for Power MCM	Power Discag. MCM	Dam Head m	Site Output KW	Station Energy MWh	Canal R. Output KW	Station Energy MWh	
Jan.	0.5812	-0.0523	2.1930	0.0000	0.0000	0.0000	0.0000	19.3847	2.5382	27.9454	27.9454	457.892	109.919	623.777	149.495	
Feb.	0.5075	-0.0433	3.3990	0.0000	0.0000	0.0000	0.0000	18.3400	1.8185	27.9454	27.9454	255.760	63.823	378.112	70.797	
Mar.	0.4904	-0.0473	4.3548	0.0000	0.0000	0.0000	0.0000	18.3104	1.8185	27.9454	27.9454	255.760	63.823	378.112	70.797	
Apr.	1.5792	-0.1539	4.1568	0.0000	0.0000	0.0000	0.0000	18.7016	1.5520	27.2885	27.2885	233.523	173.741	323.174	240.441	
May	0.3257	-0.0549	0.0016	0.0000	0.0000	0.0000	0.0000	18.6576	0.0019	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Jun.	0.3748	-0.0494	0.0000	0.0000	0.0000	0.0000	0.0000	18.2630	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Jul.	0.3748	-0.0494	0.0000	0.0000	0.0000	0.0000	0.0000	18.2630	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Aug.	0.3748	-0.0494	0.0000	0.0000	0.0000	0.0000	0.0000	18.2630	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Sep.	0.3748	-0.0494	0.0000	0.0000	0.0000	0.0000	0.0000	18.2630	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Oct.	0.3748	-0.0494	0.0000	0.0000	0.0000	0.0000	0.0000	18.2630	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Nov.	0.3748	-0.0494	0.0000	0.0000	0.0000	0.0000	0.0000	18.2630	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Dec.	0.3748	-0.0494	0.0000	0.0000	0.0000	0.0000	0.0000	18.2630	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
1968	59.6703	-0.2490	38.3088	0.0000	0.0000	0.0000	0.0000	18.2439	20.4605	1.7884	1.3122	27.7953	237.842	2089.200	316.516	2780.280

1969	Cattipyn Disch. MCM	Rain/ Evp. MCM	Irrigation Divers. MCM	Irrigation Deficit MCM	Power Release MCM	Domestic Release MCM	Spill- Out MCM	Reser- voir MCM	Usable for Power MCM	Power Discag. MCM	Dam Head m	Site Output KW	Station Energy MWh	Canal R. Output KW	Station Energy MWh	
Jan.	0.6181	-0.0176	1.9462	0.0000	0.0000	0.0000	0.0000	23.1700	2.1375	30.0139	30.0139	468.169	97.961	519.626	124.710	
Feb.	0.5479	-0.0229	1.7125	0.0000	0.0000	0.0000	0.0000	22.4470	1.5191	26.4624	26.4624	266.995	64.004	349.990	53.255	
Mar.	0.8083	-0.0555	0.7414	0.0000	0.0000	0.0000	0.0000	26.2970	0.6749	26.5529	26.5529	249.399	185.553	322.320	239.805	
Apr.	0.5729	-0.0153	0.0017	0.0000	0.0000	0.0000	0.0000	22.9597	0.0020	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
May	0.4343	-0.0633	0.0000	0.0000	0.0000	0.0000	0.0000	23.3196	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Jun.	0.3130	-0.0657	0.0000	0.0000	0.0000	0.0000	0.0000	23.5656	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Jul.	1.4181	-0.1475	0.0017	0.0000	0.0000	0.0000	0.0000	23.5855	0.0007	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Aug.	0.4247	-0.0604	0.0000	0.0000	0.0000	0.0000	0.0000	23.9312	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Sep.	0.3503	-0.0911	0.0000	0.0000	0.0000	0.0000	0.0000	24.1179	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Oct.	0.3193	-0.0924	0.0000	0.0000	0.0000	0.0000	0.0000	24.1875	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Nov.	0.0942	-0.2453	0.0000	0.0000	0.0000	0.0000	0.0000	24.5791	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Dec.	0.2574	-0.0951	0.0000	0.0000	0.0000	0.0000	0.0000	24.5791	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
1969	56.9978	-0.4352	34.0893	0.0000	0.0000	0.0000	0.0000	20.7874	24.7028	1.7598	1.5291	30.6290	302.928	253.550	370.354	324.300

Year	Catipyn Dischg. MCM	Rain Eyo. MCM	Irrigation Divergen. MCM	Irrigation Deficit MCM	Power Release MCM	Spill-out MCM	Reser-voir MCM	Usable for power MCM	Power Discng. CHS	Dam Head	Site Output KW	Station Energy MWh	Canal R. Output KW	Station Energy MWh
Jan.	1.0117	-0.0510	0.2993	0.0000	0.0000	0.0000	0.0000	0.3484	0.0000	31.8490	0.000	0.000	0.000	0.000
Feb.	0.5895	-0.0492	1.1925	0.0000	0.0000	0.0000	0.0000	26.9748	0.3688	31.8490	251.727	60.415	304.342	73.042
Mar.	0.3735	-0.0363	0.5161	0.0000	0.0000	0.0000	0.0000	27.0675	0.0000	31.8490	0.000	0.000	0.000	0.000
Apr.	0.9239	-0.1335	2.0010	0.0000	0.0000	0.0000	0.0000	27.1975	0.4415	31.8490	81.262	60.415	98.176	73.042
May	0.7735	0.0157	0.0015	0.0000	0.0000	0.0000	0.0000	27.8157	0.0017	31.9584	0.000	0.000	0.000	0.000
Jun.	0.3407	-0.0700	0.0000	0.0000	0.0000	0.0000	0.0000	27.9900	0.9936	32.3308	152.625	36.630	182.668	43.840
Jul.	3.0010	0.0594	0.0000	0.0000	0.0000	0.0000	0.0000	27.9000	2.0243	32.8200	418.302	80.914	481.465	94.330
Aug.	0.9475	-0.0819	0.0000	0.0000	0.0000	0.0000	0.0000	27.8697	0.9991	32.2497	174.024	116.844	205.640	138.190
Sep.	0.3735	-0.0119	0.0000	0.0000	0.0000	0.0000	0.0000	27.9000	1.0019	32.5000	190.167	47.222	242.342	58.418
Oct.	0.4952	-0.0819	0.0000	0.0000	0.0000	0.0000	0.0000	27.9000	1.0019	32.5000	190.167	47.222	242.342	58.418
Nov.	0.4235	-0.0819	0.0000	0.0000	0.0000	0.0000	0.0000	27.9000	1.0019	32.5000	190.167	47.222	242.342	58.418
Dec.	0.3535	-0.0819	0.0000	0.0000	0.0000	0.0000	0.0000	27.9000	1.0019	32.5000	190.167	47.222	242.342	58.418
1970	80.9575	1.5944	19.2523	0.0000	0.0000	0.0000	0.0000	52.2814	1.9889	32.1941	412.8983	516.950	805.174	4232.610

Year	Catipyn Dischg. MCM	Rain Eyo. MCM	Irrigation Divergen. MCM	Irrigation Deficit MCM	Power Release MCM	Spill-out MCM	Reser-voir MCM	Usable for power MCM	Power Discng. CHS	Dam Head	Site Output KW	Station Energy MWh	Canal R. Output KW	Station Energy MWh
Jan.	3.3412	0.1174	0.0088	0.0000	0.0000	0.0000	0.0000	4.0029	3.0000	32.5000	644.012	154.563	741.030	177.847
Feb.	1.1484	-0.0594	0.0117	0.0000	0.0000	0.0000	0.0000	4.0029	3.0000	32.5000	644.012	154.563	741.030	177.847
Mar.	0.9881	-0.0246	0.0014	0.0000	0.0000	0.0000	0.0000	4.0029	3.0000	32.5000	644.012	154.563	741.030	177.847
Apr.	0.3359	-0.0652	0.0000	0.0000	0.0000	0.0000	0.0000	4.0029	3.0000	32.5000	644.012	154.563	741.030	177.847
May	3.1248	-0.0941	0.0014	0.0000	0.0000	0.0000	0.0000	4.0029	3.0000	32.5000	644.012	154.563	741.030	177.847
Jun.	0.5505	0.0556	0.0000	0.0000	0.0000	0.0000	0.0000	4.0029	3.0000	32.5000	644.012	154.563	741.030	177.847
Jul.	0.3798	-0.0888	0.0000	0.0000	0.0000	0.0000	0.0000	4.0029	3.0000	32.5000	644.012	154.563	741.030	177.847
Aug.	0.3812	-0.0812	0.0000	0.0000	0.0000	0.0000	0.0000	4.0029	3.0000	32.5000	644.012	154.563	741.030	177.847
Sep.	0.5353	-0.1067	0.0000	0.0000	0.0000	0.0000	0.0000	4.0029	3.0000	32.5000	644.012	154.563	741.030	177.847
Oct.	0.3458	-0.1026	0.0000	0.0000	0.0000	0.0000	0.0000	4.0029	3.0000	32.5000	644.012	154.563	741.030	177.847
Nov.	0.3545	-0.1354	0.0000	0.0000	0.0000	0.0000	0.0000	4.0029	3.0000	32.5000	644.012	154.563	741.030	177.847
Dec.	0.3149	-0.0741	0.0000	0.0000	0.0000	0.0000	0.0000	4.0029	3.0000	32.5000	644.012	154.563	741.030	177.847
1971	120.3470	3.3398	9.5315	0.0000	0.0000	0.0000	0.0000	14.5660	3.9319	32.4645	475.9084	168.950	551.666	4832.600



1972	Canal Discrg.	Rain/ Evap.	Irrigation Diversn	Irrigation Deficit	Power Release	Domestic Release	Spill- Out	Reser- voir	Usable for power	Power Discrg.	Head m	Site Output	Station Energy	Canal Output	Station Energy
Jan.	6.7447	0.0859	0.0362	0.0000	0.0000	0.0000	6.7941	27.9000	7.9054	3.0000	32.2702	531.429	183.415	741.030	177.847
Feb.	1.1770	-0.0476	0.0017	0.0000	0.0000	0.0000	1.1777	27.9000	1.3072	3.0000	32.5000	243.097	58.343	298.360	69.208
Mar.	0.7081	-0.1029	0.0000	0.0000	0.0000	0.0000	0.6053	27.9000	0.7006	3.0000	32.5000	106.439	25.545	126.869	30.449
Apr.	0.6772	-0.0732	0.0000	0.0000	0.0000	0.0000	0.6040	27.9000	0.6991	3.0000	32.5000	106.045	25.451	126.400	30.336
May	0.4910	-0.0639	1.6859	0.0000	0.0000	0.0000	0.0000	26.6433	1.9489	3.0000	32.0269	394.746	94.739	471.371	113.129
Jun.	2.1121	0.0820	0.1575	0.0000	0.0000	0.0000	0.0000	20.8129	1.9238	3.0000	32.1218	319.256	76.422	436.722	104.818
Jul.	3.3889	0.0109	1.5349	0.0000	0.0000	0.0000	0.0000	25.6475	1.7745	3.0000	32.9867	330.471	79.313	423.359	101.506
Aug.	0.8173	-0.0044	0.7787	0.0000	0.0000	0.0000	0.0000	16.2970	0.9013	3.0000	32.5448	121.045	29.651	184.070	44.393
Sep.	4.0372	0.1149	0.0031	0.0000	0.0000	0.0000	0.0000	21.9054	0.0036	3.0000	32.5012	0.000	0.000	0.000	0.000
Oct.	2.3041	0.0534	2.0455	0.0000	0.0000	0.0000	0.0000	24.5388	2.3675	3.0000	30.3414	459.787	110.316	576.478	138.355
Nov.	8.3260	0.3418	0.2293	0.0000	0.0000	0.0000	1.2022	27.9000	1.6464	3.0000	30.3563	304.611	73.107	587.988	162.637
Dec.	11.0214	0.2995	2.0582	0.0000	0.0000	0.0000	2.0173	27.9000	1.5724	3.0000	31.7854	304.160	218.995	567.785	264.791
1972	66.5149	0.4545	37.6132	0.0000	0.0000	0.0000	29.0359	24.7188	2.1077	1.7178	30.5876	325.652	286.520	406.639	3571.910

1973	Canal Discrg.	Rain/ Evap.	Irrigation Diversn	Irrigation Deficit	Power Release	Domestic Release	Spill- Out	Reser- voir	Usable for power	Power Discrg.	Head m	Site Output	Station Energy	Canal Output	Station Energy
Jan.	0.7409	-0.0741	2.1444	0.0000	0.0000	0.0000	0.0000	26.4724	2.4817	3.0000	31.9487	513.545	128.250	609.472	146.033
Feb.	0.4743	-0.0615	0.0016	0.0000	0.0000	0.0000	0.0000	25.3141	0.0018	3.0000	31.0051	0.000	0.000	0.000	0.000
Mar.	0.3821	-0.0977	0.0000	0.0000	0.0000	0.0000	0.0000	26.7415	0.0000	3.0000	31.5356	0.000	0.000	0.000	0.000
Apr.	0.5064	-0.1024	0.0000	0.0000	0.0000	0.0000	0.0000	27.0564	0.0000	3.0000	32.0274	0.000	0.000	0.000	0.000
May	0.2581	-0.0887	2.2520	0.0000	0.0000	0.0000	0.0000	25.7975	2.6054	3.0000	31.9031	540.211	129.651	641.951	154.044
Jun.	0.7230	-0.0358	5.4944	0.0000	0.0000	0.0000	0.0000	11.3737	8.7593	3.0000	33.7921	462.755	111.864	741.030	177.847
Jul.	2.0705	0.0042	10.1241	0.0000	0.0000	0.0000	0.0000	10.1083	3.9059	3.0000	31.8265	390.943	281.479	586.679	494.409
Aug.	1.4983	0.0349	0.0000	0.0000	0.0000	0.0000	0.0000	19.9255	0.0000	3.0000	31.7560	0.000	0.000	0.000	0.000
Sep.	5.5572	0.1213	0.0041	0.0000	0.0000	0.0000	5.7449	27.9000	6.5539	3.0000	32.5000	644.012	154.563	741.030	177.847
Oct.	2.5879	0.2575	0.0829	0.0000	0.0000	0.0000	2.7936	27.9000	8.4246	3.0000	32.5000	644.012	154.563	741.030	177.847
Nov.	14.3158	0.3479	4.0027	0.0000	0.0000	0.0000	10.5610	27.9000	5.4740	3.0000	32.5000	644.012	154.563	741.030	177.847
Dec.	21.4529	0.4605	0.0000	0.0000	0.0000	0.0000	10.9134	27.9000	12.5312	3.0000	32.5000	644.012	154.563	741.030	177.847
1973	101.0850	2.1874	30.8112	0.0000	0.0000	0.0000	72.4610	23.9702	3.2747	1.5785	29.9711	312.762	2739.900	397.373	3395.390

	Discharge	Evap	Diver	Deficit	Release	Release	Out	Reser	Usable	Power	Discharge	Head	Output	Energy	Output	Energy
	MCM	MCM	MCM	MCM	MCM	MCM	MCM	MCM	MCM	MCM	MCM	M	MW	MWH	MW	MWH
Jan.	2.47761	-0.03294	0.00993	0.00000	0.00000	0.00000	2.50993	27.90000	2.91499	2.91499	32.50000	37.50000	624.700	149.928	720.380	172.991
Feb.	0.99009	-0.04650	0.00000	0.00000	0.00000	0.00000	0.93334	27.90000	1.08190	1.08190	32.50000	36.50000	177.885	47.498	235.634	56.456
Mar.	0.64811	-0.03922	0.00000	0.00000	0.00000	0.00000	0.60899	27.90000	0.88000	0.88000	32.50000	34.50000	160.257	40.846	178.872	44.441
Apr.	0.99999	-0.07999	0.00000	0.00000	0.00000	0.00000	0.91844	27.90000	1.06299	1.06299	32.50000	37.50000	193.615	49.468	230.195	55.247
May	0.49999	-0.10511	0.00000	0.00000	0.00000	0.00000	0.39277	27.90000	0.45455	0.45455	32.50000	32.50000	0.00000	0.00000	0.00000	0.00000
Jun.	0.50000	-0.07100	0.00000	0.00000	0.00000	0.00000	0.43659	27.90000	0.47833	0.47833	32.50000	34.50000	0.00000	0.00000	0.00000	0.00000
Jul.	0.22555	-0.05995	0.00993	0.00000	0.00000	0.00000	0.16774	27.90000	0.27733	0.27733	32.50000	31.95000	463.449	111.238	551.704	132.407
Aug.	0.25555	-0.07254	0.00993	0.00000	0.00000	0.00000	0.17260	27.90000	0.27877	0.27877	32.50000	31.70000	430.599	103.341	505.374	121.290
Sep.	0.17411	-0.02511	0.00997	0.00000	0.00000	0.00000	0.14876	27.90000	0.23752	0.23752	32.50000	34.50000	349.852	83.724	411.642	98.294
Oct.	0.17878	-0.02290	0.00997	0.00000	0.00000	0.00000	0.15031	27.90000	0.23999	0.23999	32.50000	35.00000	366.844	77.772	392.659	91.872
Nov.	0.17411	-0.02511	0.00997	0.00000	0.00000	0.00000	0.14876	27.90000	0.23752	0.23752	32.50000	34.50000	349.852	83.724	411.642	98.294
Dec.	0.17411	-0.02511	0.00997	0.00000	0.00000	0.00000	0.14876	27.90000	0.23752	0.23752	32.50000	34.50000	349.852	83.724	411.642	98.294
1974	70.2164	-0.8074	22.9637	0.0000	0.0000	0.0000	48.0582	26.2551	2.2522	1.7675	31.5037	353.019	5092.450	425.062	3723.540	

	Discharge	Rain/ Irrigation	Irrigation	Power	Domestic	Spill-	Reser-	Usable	Power	Discharge	Head	Site	Station	Canal R.	Station
	MCM	Evap	Deficit	Release	Release	Out	voir	for Power	MCM	MCM	M	Output	Energy	Output	Energy
Jan.	2.3562	-0.0648	0.0097	0.0000	0.0000	2.4112	27.9000	2.8020	2.9020	32.5000	37.5000	579.086	143.791	692.770	166.265
Feb.	0.7903	-0.0609	0.0015	0.0000	0.0000	0.7098	27.9000	0.9227	1.5057	32.5000	34.5000	135.744	32.579	161.681	38.905
Mar.	0.5574	-0.0924	0.0015	0.0000	0.0000	0.4434	27.9000	0.6077	1.0107	32.5000	32.5000	179.467	42.016	213.403	44.507
Apr.	0.4398	-0.0841	0.0000	0.0000	0.0000	0.3538	27.9000	0.4118	0.6427	32.5000	32.5000	91.277	21.906	109.830	26.119
May	0.3523	-0.0957	0.0000	0.0000	0.0000	0.2658	27.9000	0.3453	0.2073	32.5000	32.5000	29.444	21.906	35.106	26.119
Jun.	0.9240	-0.0200	0.0097	0.0000	0.0000	0.9000	27.9000	3.3371	3.0000	30.1126	594.317	142.536	741.030	177.847	
Jul.	0.7572	-0.0198	0.0097	0.0000	0.0000	0.7374	27.9000	2.2578	2.2578	31.2719	449.246	107.824	547.034	131.288	
Aug.	0.7252	-0.0597	0.0105	0.0000	0.0000	0.6674	27.9000	2.0671	2.0671	32.5000	427.953	102.711	502.392	120.574	
Sep.	0.5469	-0.1222	0.0050	0.0000	0.0000	0.4249	27.9000	1.2049	2.4228	32.5000	511.168	380.509	594.469	442.285	
Oct.	0.9039	-0.2367	0.0343	0.0000	0.0000	0.6622	27.9000	3.0000	3.0000	32.5000	644.012	463.689	741.030	533.341	
Nov.	0.9587	-0.2324	0.0081	0.0000	0.0000	0.7263	27.9000	3.0000	3.0000	32.5000	644.012	463.689	741.030	533.341	
Dec.	0.8416	-0.0557	0.0087	0.0000	0.0000	0.7859	27.9000	3.0000	3.0000	32.5000	644.012	463.689	741.030	533.341	
1975	90.5657	2.9882	17.0600	0.0000	0.0000	75.6339	27.4749	2.4393	1.9658	32.2199	404.682	3545.010	474.317	155.010	