Table F-102 OBSERVATION RECORDS ON PADDY GROWTH IN WET SEASON AT MONITORING POINT NO. 10 IN ADRIS

Plot No.	ltems Measured		Aug. 22	Aug. 30	Sept.	Sept.	Sept. 18	Sept. 26	Oct.	Oct.	Oct. 17	Oct. 24
1-1	Plant height (cm)		23	39	43	49	62	67	77	.81	83	83
1-1	No. of tillers		6	19	25	39	41	42	38	34	32	29
-2	Plant height (cm)		26	34	38	45	65	70	86	86	86	86
-2	No. of tillers		5	19	24	36	41	41	36	33	33	30
-3	Plant height (cm)		27	37	44	54	68	73	80	83	83	83
•3	No. of tillers		11	21	29	39	48	49	43	38	35	28
11-1	Plant height (cm)		26	- 30	36	47.	58	67	78	81	89	90
	No. of tillers		5	- []	15	26	28	31	26	2.7	27	24
-2	Plant height (cm)		24	30	35	35	49	64	74	82	.83	- 83
-	No. of tillers		7	П	11	18	19	21	18	18	17	16
-3	Plant height (cm)		- 30	44	39	50	62	71	88	89	-90	90
_	No. of tillers	•	9	24	- 30	39	48	44	41	40	40	34
[][-]	Plant height(cm)		30	:41	∍ ¹ 37 →	39	55	56 [,]	79	84	84	84
	No. of tillers		. 7	13	13	20	20	21	. 19	17	:17	16
-2	Plant height (cm)		31	44	48	48	61	-72	86	95	97	98
	No. of tillers		10	18	23	38	44	45	40	39	37	- : 32
-3	Plant height (cm)		- 35	40	41	43	54	70	83	93	95	95
	No. of tillers		4	.13	17	24	29	27	24	23	23	20
IV-I	Plant height (cm)	÷	33	31	37	37	48	52	72	78	81	81
	No. of tillers		4	15	10	. 26	30	36	37	34	33	30
-2	Plant height (cm)		28	32	34	37	- 50	59	67	75	76	~ 77
_	No. of tillers		. 9	9	21	40	46	48	38	35	35	32
-3	Plant height (cm)	•	28	31	33	37	48	59	72	77.	82	82
•	No. of tillers		7 .	• 7	13	26	30	30	28	28	26	24

Note; Variety: 1R36

Table F-103 RESULT OF ANALYSIS ON YIELD COMPONENTS OF WET SEASON PADDY AT MONITORING POINTS NO. 2 AND NO. 4 IN ARIS

Sample No.	No. of Panicles per Hill	No. of Panicles per m ²	No. of Grains per Panicle	No. of Grains per m ²	Percent of Ripened Grains (%)	Weight of 1,000 Ripened Grains (g)	Unit Yield (ton/ha)
(1) Monito	ring Point No	o. 2					
I-1	10.2	264	46.0	12,100	76.6	26.2	2.4
1-2	10.5	314	45.7	14,300	78.4	26.5	3.0
I-3	14.2	356	40.5	14,400	79.6	25.7	3.0
11-1	16.8	421	51.7	21,800	81.1	25.5	4.5
11-1	18.0	468	45.9	21,500	72.2	25.4	3.9
II-2 II-3	19.8	475	56.7	26,900	75.9	25.6	5.2
100	20.4	469	50.2	23,500	77.0	25.8	4.7
III-I	16.0	447	49.7	22,200	65.3	25.3	3.7
III-2 III-3	18.9	472	49.0	23,100	84.4	25.1	4.9
No. 25 (1997)	15.9	462	56.1	25,900	84.1	24.5	5.3
IV-1	the second second	381	56.8	21,600	83.6	25.4	4.6
IV-2	13.6 13.6	434	53.4	23,200	86.0	25.0	5.0
IV-3	13.0	434		20,200			
(2) Monit	oring Point N	lo. 4					
1-1	14.6	291	65.0	18,900	80.3	21.5	3.3
I-2	16.4	345	60.6	20,900	79.2	20.8	3.4
I-3	16.7	334	65.6	21,900	75.7	20.4	3.4
II-1	16.3	359	73.7	26,500	67.3	20.7	3.7
11-t 11-2	17.3	364	64.2	23,400	71.6	21.4	3.6
II-2 II-3	22.0	439	60.0	26,300	74.1	20.7	4.0
- 1 to	1.45	406	67.6	27,400	78.7	21.3	4.6
III-1	16.9	433	68.3	29,600	77.5	21.1	4.8
111-2	21.7 19.7	473	57.9	27,400	74.8	20.6	4.2
111-3		*	56.8	29,000	70.4	21.6	4.4
IV-1	23.2	511	55.4	22,400	76.0	21.5	3.7
IV-2	19.2	404	51.0	20,700	75.3	21.1	3.3
IV-3	17.7	407	31.0	20,700			

Table F-104 RESULT OF ANALYSIS ON YIELD COMPONENTS OF WET SEASON PADDY AT MONITORING POINTS NO. 6 AND NO. 8 IN ARIS

Sample No.	No. of Panicles per Hill	No. of Panicles per m ²	No. of Grains per Panicle	No. of Grains per m ²	Percent of Ripened Grains (%)	Weight of 1,000 Ripened Grains (g)	Unit Yield (ton/ha)
(1) Monito	ring Point No	o. 6					a postalia. Servicia de
I-1	12.1	340	59.8	20,300	56.5	23.3	2.7
1-2	11.7	234	82.6	19,300	59.5	24.8	2.8
· I-3	10.7	214	87.9	18,800	63.2	24.8	3.0
II-1	8.9	259	72.2	18,700	56.6	24.9	2.6
II-2	13.3	333	77.1	25,700	65.4	24.4	4.1
11-3	11.9	250	97.2	24,300	59.6	24.4	3.5
III-1	-13.4	282	78.7	22,200	57.0	23.6	3,0
111-2	10,4	240	88.9	21,300	60.6	24.0	3.1
-111-3	10.6	254	98.4	25,000	59.1	24.4	3.6
IV-1	13.2	291	69.5	20,200	60.0	23.8	2.9
IV-2	12.2	304	69.5	21,100	60.9	24.2	3.1
IV-3	14.5	289	81.1	23,400	62.1	23.9	3.5
(2) Monito	oring Point N	o. 8					ing a second of the second of
- [-]	11.3	225	58.6	13,200	56.7	19.5	1.5
1-2	12.5	249	103.9	25,900	76.5	20.0	4.0
I-3	12.3	344	76.5	26,300	69.4	20.1	3.7
II-1	14.4	311	104.0	32,400	73.4	20.6	4.9
II-2	13.6	263	100.8	26,500	66.3	19.8	3.5
11-3	17.1	394	106.3	41,900	65.2	20.0	5.5
111-1	15.0	300	93.2	28,000	71.0	20.2	4.0
HI-1	19.2	422	85.8	36,200	52.7	19.0	3.6
111-2 111-3	12.7	279	117.9	32,900	74.5	19.5	. 4.8
IV-1	15.6	358	102.6	36,700	70.0	20.3	5.2
IV-1	17.9	322	98.7	31,800	69.1	19.8	4.4
IV-2	16.8	336	106.1	35,700	66.6	19.9	4.7

Table F-105 RESULT OF ANALYSIS ON YIELD COMPONENTS OF WET SEASON PADDY AT MONITORING POINTS NO. 12 IN ARIS AND NO. 10 IN ADRIS

Sample No.	No. of Panicles per Hill	No. of Panicles per m ²	No. of Grains per Panicle	No. of Grains per m ²	Percent of Ripened Grains (%)	Weight of 1,000 Ripened Grains (g)	Unit Yield (ton/ha)
1) Monitori	ng Point No	o. 12 in ARIS	• • • • • • • • • • • • • • • • • • • •				
I-1	7.3	343	63,8	21,900	82.6	20.8	3.8
1-2	11.1	321	111.1	35,700	76.5	20.6	5,6
I-3	15.4	370	93.4	34,600	75.5	20.4	5.3
II-1	6.0	247	99.0	24,500	77.8	20.3	3.9
1I-2	8.8	273	83.9	22,900	72.4	21.0	3.5
II-3	11.1	345	88.3	30,500	76.6	20.8	4.9
III-1	9.5	361	85.9	31,000	80.5	21.0	5.2
111-2	12.7	405	80.6	32,700	82.0	20.8	5.6
111-3	11.4	387	82.9	32,100	74.7	21.1	5.1
IV-1	11.0	319	75.4	24,100	81.0	21.0	4. i
	12.1	412	71.8	29,600	83.3	20.8	5.1
IV-2 IV-3	12.6	404	80.3	32,400	84.6	21.3	5.8
(2) Monitor	ing Point N	lo. 10 in ADR	AIS				
I-1	24.6	614	52.6	32,300	45.8	21.0	3.0
1-1 1-2	25.4	711	52.1	37,100	32.5	19.8	2.4
1-2 1-3	25.4	609	59.7	36,300	37.2	20.0	2.7
II-1	25.4	559	42.5	23,700	39.6	20.5	1.9
	23.4 22.5	586	48.0	28,100	34.5	20.1	2.0
II-2 II-3	25.3 25.3	607	51.1	31,000	50.7	20.5	3.2
		500	51.1	26,900	55.3	21.5	3.2
III-1	21.1	527	48.9	24,200	52.7	20.7	2.6
III-2	19.8	494 539	41.4	22,300	48.0	20.4	2.2
III-3	21.6	337	41.4	22,000			
IV-1	21.9	526	46.4	24,400	40.2	20.9	2.1
i V - i	21.2	509	51.9	26,400	43.5	20.5	2.4 1.6
IV-2	, , , ,		D X		35.6	19.6	

Table F-106 LIST OF WET SEASON PADDY SAMPLES COLLECTED IN ARIS FOR YIELD ANALYSIS

Sample No.	Location	Variety	Harvesting Sate
1,	Main Canal (St. 33+906)	Malagkit	Sept. 20, 1984
2.	Main Canal (St. 35+129)	Malagkit	Sept. 20, 1984
3.	Lateral D (St. 2+140)	Malagkit	Sept. 21, 1984
4.	Lateral D (Head Gate)	Super 36	Sept. 28, 1984
5.	Lateral D (St. 1+040)	Super 36	Sept. 28, 1984
6,	Main Canal (St. 9+800)	IR 56	Sept. 29, 1984
7.	Main Canal (St. 10+478)	IR 56	Sept. 29, 1984
8.	Main Canal (St. 9+356)	IR 56	Oct. 6, 1984
9.	Main Canal (St. 3+120)	IR 23	Oct. 10, 1984
10.	Main Canal (St. 4+464)	IR 40	Oct. 10, 1984
11.	Main Canal (St. 5+000)	IR 36	Oct. 11, 1984
12.	Main Canal (St. 6+681)	IR 36	Oct. 11, 1984
13.	Main Canal (St. 33+290)	IR 42	Oct. 18, 1984
14.	Main Canal (St. 32+620)	IR 42	Oct. 18, 1984
15.	Main Canal (St. 32+100)	IR 42	Oct. 20, 1984
16.	Main Canal (St. 31+400)	IR 42	Oct. 20, 1984
17.	Main Canal (St. 31+291)	IR 56	Oct. 25, 1984
18.	Lateral J (St. 0+500)	IR 36	Oct. 26, 1984

Table F-107 RESULT OF ANALYSIS ON YIELD COMPONENTS OF WET SEASON PADDY IN ARIS (1/8)

Sample No.	No, of Panicles per Hill	No. of Panicles per m ²	No. of Grains per Panicle	No. of Grains per m ²	Percent of Ripened Grains (%)	Weight of 1,000 Ripened Grains (g)	Unit Yield (ton/ha)
Sampling Po	oint No. 1						
1-1	8.9	275	38.7	10,600	59.7	26.4	1.7
1-2	11.0	341	62.2	21,200	60.1	26.7	3.4
1-3	12.5	346	51.6	22,500	63.1	26.6	3.8
1-4	9.4	318	58.0	18,400	67.5	26.8	3.3
1-5	10.8	368	51.4	18,900	64.4	26.6	3.2
Average	10.5	330	52.4	18,300	63.0	26.6	3.1
II-1	17.5	491	40.2	19,700	62.6	26.2	3.2
11-2	13.5	473	45.6	21,600	67.1	25.9	3.8
Average	15.5	482	42.9	20,650	64.9	26.1	3.5
Sampling P	Point No. 2						
J-1	13.2	462	44.2	20,400	74,0	24.1	3.6
1-1	12.9	412	48.4	19,900	80.0	23.5	3.7
1-2 1-3	11.7	410	54.6	22,400	67.4	24.2	3.7
1-3 1-4	15.0	479	49.7	23,800	75.0	24.1	4.3
Average	13.2	441	49.2	21,600	74.1	24.0	3.8
Sampling I	oint No. 3				•		
I-1	11.2	280	45.4	12,700	67.8	25.8	2.2
1-2	9.3	241	55.4	13,400	73.2	25.9	2.5
I-3	9.8	246	55.4	13,600	72.2	25.8	2.5
Average	10.1	256	52.1	13,200	. 71.1	25.8	2.4
Sampling I	Point No. 4						
·		290	43.5	12,600	65.1	22.3	1.8
1-1	12.1 15.9	430	36.9	15,900	61.3	23.3	2.3
I-2		359	58.7	21,000	77.9	24.2	4.0
1-3 1-4	16.3 15.7	392	62.3	24,400	78.4	24.1	4.6
1-4 Average	15.0	368	50.4	18,500	70.7	23.5	3.2
1000		227	45.8	15,000	68.5	22.8	2.3
11-1	13.1	327	40.8	18,700	77.8	24.6	3.6
11-2	18.3	458 400	51.6	21,100	81.2	24.4	4.2
11-3	17.8	409	46.1	18,300	75.8	23.9	3.4
Average	16.4	398	40.1	10,000			
	144	448	53.4	23,900	74.0	23.8	4.2
111-1	16.6 10.1	459	57.3	26,300	73.8	24.5	4.8
111-2	19.1			18,600	80.4	24. l	3.6
111-3	14.5	362	51.5	10,000	76.1	24.1	4.2

Table F-108 RESULT OF ANALYSIS ON YIELD COMPONENTS OF WET SEASON PADDY IN ARIS (2/8)

Sample No.	No. of Panicles per Hill	No. of Panicles per m ²	No. of Grains per Panicle	No. of Grains per m ²	Percent of Ripened Grains (%)	Weight of 1,000 Ripened Grains (g)	Unit Yield (ton/ha)
<u> </u>		<u></u>					
Sampling Po	oint No. 5				23.1		3.3
1-1	12.0	311	41.8	13,000	71.6	24.8	2.3 2.9
1-2	13.5	338	36.3	12,000	88.8	26.5	3.7
1-3	14.6	364	50.9	18,500	76.5	26.2	3.7 4.6
1-4	22.2	466	52.0	24,200	75.5	25.2	3.4
Average	15.6	370	45.3	17,000	78.1	25.7	3.4
	16.1	318	52.8	16,800	77.2	25.8	3.3
11-1	15.1	355	54.6	19,400	82.5	25.7	4.1
11-2	13.7	355 349	53.8	18,800	81.6	25.6	3.9
11-3	12.5	358	50.6	18,100	82.2	25.3	3.8
11-4	14.3	·	53.0	18,300	80.9	25.6	3.8
Average	13.9	345	55.0	10,500			
Sampling P	oint No. 6				1 1 14		
1-1	18.2	564	41.9	23,600	44.0	21.8	2.3
1-2	18.9	566	31.9	18,100	61.1	23.9	2.6
1-3	15.9	509	32.6	16,600	73.1	23.9	2.9
1-3 1-4	15.5	465	35.9	16,700	61.1	25.2	2.6
Average	17.1	526	35.6	18,800	59.8	23.7	2.6
_	17.0	442	39.1	17,300	75.1	24.3	3.2
11-1	17.0	370	37.8	14,000	77.7	25.4	2.8
11-2	12.3	442	29.5	13,100	63.4	24.8	2.1
11-3	14.7	442 400	36.8	14,700	59.5	25.4	2.2
II-4 Average	14.3 14.6	400 414	35.8	14,800	68.9	25.0	2.5
Average						A STATE OF THE STA	'n de Magnadi. Geografie
Sampling P	oint No. 7					and the second	
1-1	14.8	355	45.0	16,000	42.6	22.4	1.5
1-2	16.3	440	39.5	17,400	65.0	24.0	2.7
I-3	10.3	340	40.7	13,800	66.1	26.4	2.4
Average	13.8	378	41.7	15,700	57.9	24.3	2.2
11-1	12.8	408	49.2	20,100	82.2	25.9	4.3
11-2	10.7	299	45.5	13,600	70.8	25.6	2.5
11-2	14.3	428	56.8	24,300	79.0	25.5	4.9
11"3	12.6	378	50.5	19,300	77.3	25.7	3.8

Table F-109 RESULT OF ANALYSIS ON YIELD COMPONENTS OF WET SEASON PADDY IN ARIS (3/8)

Sample No.	No. of Panicles per Hill	No. of Panicles per m ²	No. of Grains per Panicle	No. of Grains per m ²	Percent of Ripened Grains (%)	Weight of 1,000 Ripened Grains (g)	Unit Yield (ton/ha)
<u> </u>							····
		•					
Sampling Po	oint No. 8						
1-1	16.6	364	42.8	15,600	81.6	25.8	3.3
1-2	17.9	358	49.5	17,700	85:3	25.6	3.9
1-3	14.8	356	42.7	15,200	84.0	26.3	3.4
I-4	14.9	327	49.9	16,300	88.3	26.2	3.8
Average	16.0	351	46.2	16,200	84.8	26.0	3.6
11-1	12.0	289	46.3	13,400	81.6	25.8	2.8
11-2	15.8	427	56.1	23,900	83.6	26.6	5.3
11-3	18.4	460	65.6	30,200	88.3	25.4	6.8
11-3 11-4	13.4	335	59.2	19,800	81.4	25.5	4.1
Average	14.9	378	56.8	21,800	83.7	25.8	4.7
	177	443	54.1	24,000	76.9	25.2	4.6
111-1	17.7	337	68.1	23,000	86.4	26.4	5.2
111-2	15.3	337 411	64.1	26,300	88.9	25.9	6.1
111-3	18.7 17.7	389	70.9	27,600	81.2	26.0	5.8
III-4 Average	17.7	395	64.3	25,200	83.4	25.9	5.4
Average	17,4	,	01.0				•
Sampling F	Point No. 9						
1-1	7.6	191	20.0	3,820	83.4	22.7	0.7
1-2	8.1	202	21.3	4,300	55.0	22.5	0.5
1-3	9.0	224	16.8	3,800	53.7	22.2	0.5
1-3 1-4	8.8	229	20.3	4,700	66.3	21.9	0.7
Average	8.4	212	19.6	4,100	64.6	22.3	0.6
·		270	38.6	14,600	72.7	23.9	2.5
11-1	14.0	378	47.3	17,800	67.8	24.3	2.9
11-2	13.0	376	48.8	18,700	69.6	24.1	3:1
11-3	13.7	383	40.8	18,600	57.2	24.3	2.6
11-4	.11.7	455	43.9	17,400	66.8	24.1	2.8
Average	13.1	398	47.7				-
111-1	14.5	507	41.9	21,200	81.0	24.8	4.3
111-2	14.2	481	45.1	21,700	80.0	24.4	4.2
111-3	16.8	570	46.2	26,500	78.2	24.7	5.1
111-4	17.6	597	43.4	25,900	77.9	24.7	5.0
Average	15.7	539	44.1	23,800	79.3	24.6	4.7

Table F-110 RESULT OF ANALYSIS ON YIELD COMPONENTS OF WET SEASON PADDY IN ARIS (4/8)

Sample No.	No. of Panicles per Hill	No. of Panicles per m ²	No. of Grains per Panicle	No. of Grains per m ²	Percent of Ripened Grains (%)	Weight of 1,000 Ripened Grains (g)	Unit Yield (ton/ ha)
Sampling p	oint No. 10						
I-1	15.5	388	36.4	14,100	66.6	23.8	2.2
I-2	18.0	396	53.2	21,100	75.6	24.0	3.8
I-3	18.9	567	45.2	25,600	70.8	24.3	4.4
I-4	18.7	468	45.5	21,300	68.6	23.8	3.5
Average	17.8	455	45.1	20,500	70.4	24.0	3.5
11-1	20.3	467	50.0	23,400	73.5	23.8	4.9
11-2	20.0	519	41.8	21,700	67.9	24.3	3.6
11-3	18.6	428	55.5	23,700	73.0	24.5	4.2
11-4	20.4	489	52.0	25,400	69.9	24.6	4.4
Average	19.8	476	49.8	23,600	71.1	24.3	4.1
111-1	17.8	446	56.5	25,200	71.2	24.7	4.4
111-2	17.2	464	62.4	29,000	68.3	24.2	4.8
111-3	17.5	472	53.0	25,000	60.1	24.2	3.6
111-4	16.7	417	55.7	23,200	71.7	24.1	4.0
Average	17.3	450	56.9	25,600	67.8	24.3	4.2
Sampling P	oint No. 11		•				
		. 416	23.2	9,600	64.7	21.0	1.3
1-1 1-2	16.6 21.4	415 534	23.2 34.9	18,600	74.3	22.3	3.1
1-2 1-3	21.4	547	35.0	19,100	69.4	22.6	3.0
1-3 1-4	21.9	544	31.9	17,400	60.7	21.9	2.3
1-4 1-5	18.6	484	41.2	19,900	71.0	22.8	3.2
Average	20.0	505	33.2	16,900	68,0	22.1	2.6
_							
11-1	16.2	404	44.4	17,900	64.5	23.5	2.7
11-2	19.6	489	52.2	25,500	71.2	23.8	4.3
11-3	17.8	516	42.7	22,000	72.4	23.9	3.8 2.5
11-4	19.0	474	35.0	16,600	68.0	22.4	4.4
11-5	22.2	532	39.7	21,100	60.4	21.9 23.1	2.8 3.2
Average	18.9	483	42.8	20,600	67.3	23.1	3.2

Table F-111 RESULT OF ANALYSIS ON YIELD COMPONENTS OF WET SEASON PADDY IN ARIS (5/8)

Sample No.	No. of Panicles per Hill	No. of Panicles per m ²	No. of Grains per Panicle	No. of Grains per m ²	Percent of Ripened Grains (%)	Weight of 1,000 Ripened Grains (g)	Unit Yield (ton/ha)
Sampling I	Point No. 12				, , , , , , , , , , , , , , , , , , , ,		
J-1	10.6	254	80.8	20,500	68.6	24.2	3.4
1-2	11.2	281	78.9	22,200	72.1	25.0	4.0
I-3	12.8	306	73.8	22,600	60.4	24.3	3.3
I-4	13.3	319	77.3	24,700	64.9	24.4	3.9
Average	17.3	290	77.7	22,500	66.5	24.5	3.7
II-1	13.6	286	83.5	23,900	59.6	24.9	3.6
II-1 II-2	13.2	317	94.6	20,000	62.0	24.6	3.1
11-2	11.4	285	96.5	27,500	56.7	23.9	3.7
11-4	13.9	305	90.6	27,600	56.3	24.9	3.9
Average	17.3	298	91,3	24,800	58.6	24.6	3.6
Sampling_	Point No. 13		•				
I-1	9.4	217	90.5	19,600	87.8	20.1	3.5
I-2	11.2	326	81.8	26,700	63.7	18.2	3.1
I-3	12.0	300	87.1	26,100	67.5	18.6	3.3
I-4	12.7	317	79.7	25,300	79.1	18.4	3.7
Average	11.3	294	84.8	24,900	74.5	18.8	3.5
11-1	12.1	302	77,4	23,400	90.4	19.7	4.2
II-2	10.8	260	76.3	19,800	89.0	19.2	3.4
11-3	11.0	297	87.3	25,900	88.2	18.8	4.3
II-4	15.2	303	86.4	26,200	90.1	19.3	4.6
Average	12.3	276	81.9	22,600	89.4	19.3	3.9
III-1	12.9	323	89.4	28,900	88.3	19.8	5.1
111-2	11.6	312	75.4	23,500	80.7	19.0	3.6
111-3	11.4	228	65.5	14,900	84.6	18.3	2.3
111-3 111-4	10.5	241	73.0	17,600	87.3	18.3	2.8
Average	11.6	260	75.8	19,700	85.2	18.9	3.2

Table F-112 RESULT OF ANALYSIS ON YIELD COMPONENTS OF WET SEASON PADDY IN ARIS (6/8)

Sample No.	No. of Panicles per Hill	No. of Panicles per m ²	No. of Grains per Panicle	No. of Grains per m ²	Percent of Ripened Grains (%)	Weight of 1,000 Ripened Grains (g)	Unit Yield (ton/ha)
Sampling P	oint No. 14						
I-1	8.2	205	68.3	14,000	71.2	18.3	1.8
I-2	12.6	314	81.3	25,500	74.8	18.6	3.6
1-2 1-3	14.0	350	87.0	30,500	77.0	18.6	4.4
I-3 I-4	16.7	400	79.7	31,900	75.4	18.5	4.5
Average	12.9	272	79.1	21,500	74.6	18.5	3.0
II-1	15.0	345	93.1	32,100	74.1	19.1	4.5
11-2	14.1	324	103.3	33,500	77.4	19.2	5.0
11-3	16.9	337	91.8	30,900	74.8	19.1	4.4
11-4	14.2	382	100.5	38,400	71.8	19.3	5.3
Average	15.0	345	97.2	33,500	74.5	19.2	4.8
Sampling P	oint No. 15				:		
		255	83.2	28,700	65.5	19.3	3.6
I-1	14.4	345 256	91.3	23,400	64.8	19.1	2.9
I-2 I-3	11.6 16.5	236 347	91.5 98.5	34,200	67.3	19.7	4.5
1-3 [-4	12.5	326	75.1	24,500	53.6	19.2	2.5
Average	13.8	308	87.0	26,800	62.8	19.3	3.2
II-I	16.6	315	87.5	27,600	64.1	19.7	3.5
H-1 H-2	15.7	376	93.4	35,100	76.7	20.1	5.4
II-2 II-3	13.3	359	102.8	36,900	72.0	20.4	5.4
II-4	17.5	506	93.4	47,300	72.5	20.4	7.0
Average	15.8	378	94.3	35,600	71.3	20.2	5.1
Ш-1	11.1	278	65,4	18,200	87.4	21.2	3.4
III-2	18.9	435	69.3	30,100	71.8	20.8	4.5
III-3	12.7	305	79.4	24,200	85.0	20.3	4.2
111-4	16.7	433	76.0	32,900	77.9	20.8	5.3
Average	14.9	359	72.5	26,000	80.5	20.8	4.4

Table F-113 RESULT OF ANALYSIS ON YIELD COMPONENTS OF WET SEASON PADDY IN ARIS (7/8)

Sample No.	No. of Panicles per Hill	No. of Panicles per m ²	No. of Grains per Panicle	No. of Grains per m ²	Percent of Ripened Grains (%)	Weight of 1,000 Ripened Grains (g)	Unit Yield (ton/ha)
<u> </u>		· · · · · · · · · · · · · · · · · · ·					
Sampling Po	int No. 16	·					
	11.7	315	116.6	26 400	84.2	20.1	6.2
I-1	11.7	366	115.6 78.5	36,400	81.8	19,4	4.6
1-2		298	78.3	28,700 22,000	78.4	19.5	3.4
1-3	11.0 17.8	296 355	73.8 84.6	30,000	83.3	20.1	5.0
I-4		333 327	84.6 88.1	30,000 28,800	81.9	19.8	4.7
Average	14.1						
H-1	17.2	396	75.0	29,700	72.3	20.0	4.3
11-2	17.1	410	80.7	33,100	75.9	20.1	5.1
II-3	12.8	319	102.8	32,800	87.0	20.5	5.9
11-4	15.3	368	91.1	33,500	85.1	20.6	5.9
Average	15.6	443	87.4	32,300	80.1	20.3	5.3
III-1	16.0	449	95.7	43,000	79.2	20.5	7.0
111-2	16.9	338	102.7	34,700	84.9	20.3	6.0
111-3	16.5	330	68.9	22,700	79.9	20.8	3.7
III-4	16.2	341	95.4	32,500	79.0	20.6	5.3
Average	16.4	400	90.7	36,300	80.8	20.6	6.0
the state of the state of							
						•	
Sampling Po	oint No. 17		•				
I-1	15.9	333.	48.9	16,300	70.5	22.2	2.6
1-2	14.1	338	50.2	17,000	69.7	22.6	2.7
I-3	18.0	360	46.3	16,700	72.4	22.0	2.7
I-4	17.0	339	55.6	18,800	79.6	23.3	3.5
Average	16.2	415	50.3	17,200	73.1	22.5	2.9
II-1	21.9	591	42,2	24,900	73.3	23.8	4.3
· ·	16.8	454	41.9	19,000	75.6	23.5	3.4
1I-2 1I-3	16.8 15.1	362	44.8	16,200	84.7	24.1	3.3
and the second s	18.7	411	46.2	19,000	76.4	23.2	3,4
II-4	18.7	483	43.8	21,200	77.5	23.7	3,9
Average				•		23.1	5.5
III-1	23.8	643	50.2	32,300	73.9	23.1	3.8
III-2	20.3	590	37.9	22,400	76.8	24.2	2.9
III-3	20.8	458	34.9	16,000	74.5	23.7	3.5
III-4	23.7	498	41.6	20,700	71.5	23.7	4.2
Average	22.2	597	41.1	24,500	74.2	23,3	4.2

Table F-114 RESULT OF ANALYSIS ON YIELD COMPONENTS OF WET SEASON PADDY IN ARIS (8/8)

Sample No.	No. of Panicles per Hill	No. of Panicles per m ²	No. of Grains per Panicle	No. of Grains per m ²	Percent of Ripened Grains (%)	Weight of 1,000 Ripened Grains (g)	Unit Yield (ton/ha)
Sampling P	oint No. 18					Aljashis.	
I-1	14.9	432	30.8	13,300	71.3	22.4	2.1
I-2	14.0	335	53.3	17,900	71.4	22.4	2.9
I-3	19.7	413	49.2	20,300	78.7	22.2	3.6
I-4	19.2	403	49.2	19,800	80.5	22.9	3.7
Average	16.9	444	45.6	20,200	75.5	22.5	3.4
H-1	17.4	486	38.4	18,700	68.8	23.2	3.0
11-2	19.5	584	47.5	27,700	78.1	22.6	4.9
H-3	17.9	465	47.8	22,200	80.3	22.3	4.0
11-4	13,7	287	70.2	20,100	78.3	22.4	3.5
Average	17.1	469	51.0	23,900	76.4	22.6	4.0
111-1	18.5	407	58.8	23,900	79.0	22.3	4.2
III-2	18.6	353	59.9	21,100	73.2	22,2	3.4
111-3	18.8	489	47.6	23,300	75.9	21.9	3.9
III-4	18.2	382	53.3	20,400	78.7	21.1	3.4
Average	18.5	438	54.9	24,000	76.7	21.9	4.0

Table F-115 NUTRIENT UPTAKE BY WET SEASON PADDY GROWN AT MONITORING POINT NO. 2 IN ARIS

e de la companya de La companya de la co			G LORINA	10, 2 III AMB		Unit: %
Plant Part		Plot No.	N	P	K	SiO ₂
Leaf	,: ·	1	1.63	0.147	0.19	25.5
		H	1.24	0.115	0.97	19. 9
	1 8 1/2	Ш	1.18	0.111	1.02	17.0
	•	IV	1.30	0.088	0.87	15.6
Stem		I	0.91	0.147	1.34	17.9
. *		П	0.60	0.133	1.25	7.7
		III	0.93	0.117	1.23	12.5
. (*)		IV	0.5	0.088	1.31	6.9
Brown rice		: I	1.50	0.313	0.27	0.4
		II	1.28	0.374	0.32	0.3
•	Ĵ	III	1.42	0.360	0.28	0.4
	et e	IV	1.32	0.394	0.26	0.6
Chaff		I	0.9	5 0.194	0.33	14.8
		11	0.7	*	0.48	15.1
		11	0.9		0.37	11.3
$\gamma_{ij} = \gamma_{ij} \gamma_{ij} + \gamma_{$		IV	1.0	· ·	0.32	11.9

Table F-116 NUTRIENT UPTAKE BY WET SEASON PADDY GROWN AT MONITORING POINT NO. 4 IN ARIS

					Unit: %
Plant Part	Plot No.	N	P	ĸ	SiO ₂
Leaf	l	0.82	0.097	0.82	19.1
Ecui	II	1.03	0.093	0.90	20.9
	Ш	0.93	0.088	0.81	19.8
•	IV	1.54	0.118	1.09	15.9
Stem	I	0.59	0.082	1.46	13.8
	II	0.67	0.105	1.14	18.9
· .	III	0.64	0.083	0.96	13.3
	IV	0.86	0.121	1.03	19.8
		•	*. *		
Brown rice	I	1.74	0.217	0.12	0.6
	11	1.57	0.394	0.25	0.5
	Ш	1.66	0.323	0.23	0,2
	IV	1.98	0.404	0.27	0.2
••				\$ ***	
Chaff	I	1.21	0.283	0.42	11.2
	II	1.47	0.174	0.35	16.3
	III	1.26	0.241	0.39	12.6
•	IV	1.20	0.210	0.38	12.7

Table F-117 NUTRIENT UPTAKE BY WET SEASON PADDY GROWN AT MONITORING POINT NO. 6 IN ARIS

					Unit: %
Plant Part	Plot No.	N	Р	K	SiO2
Leaf	:* I	1.08	0,103	0.84	18.9
Property of the second	II	1.01	0.101	0.61	19.8
54.35	III	0.88	0.100	0.53	17.6
	IV	1.04	0.127	0.88	16.7
Stem	. 1	0.61	0.131	1.04	10.1
	: 11	0.56	0.142	1.11	17.1
•	Ш	0.44	0.120	1.21	14.3
	···IV	0.35	0.135	1.55	19.0
<i>7</i>		1.60	0.400	0.25	0.6
Brown rice	l	1.52	0.400		0.6
	ŢĪ.	1.38	0.360	0.23	0.0
	III	1.35	0.342	0.24	
# VT	IV	1.70	0.388	0.23	8.0
				0.40	15.3
Chaff	I	0.70	0.145	0.40	15.3
1	II	1.02	0.209	0.46	15.8
	111	1.50	0.177	0.43	14.9
	ΙV	1.17	0.191	0.45	12.3

Table F-118 NUTRIENT UPTAKE BY WET SEASON PADDY GROWN AT MONITORING POINT NO. 8 IN ARIS

				· · · · · · · · · · · · · · · · · · ·	Unit: %
Plant Part	Plot No.	N	P	4 K 4	SiO ₂
	_			,	^^
Leaf	i	0.83	0.076	0.71	20.4
	H	0.76	0.091	0.80	16.1
	· III	0.77	0.088	0.80	21.0
	. 1				
Stem	1	0.49	0.087	1.30	23.9
	· II	0.53	0.150	1.06	17.7
	III	0.50	0.092	0.83	22.0
Brown rice	I ·	1.49	0.245	0.24	0.8
	· II	1.46	0.346	0.24	1.0
	. 111	1.51	0.358	0.23	1.1
		ALC:	1 1	3 1 1	
Chaff	: I	1.24	0.173	0.46	13.8
	, je II	1,60	0.225	0.45	12.6
	Ш	1.15	0,232	0.45	11.5

Table F-119 NUTRIENT UPTAKE BY WET SEASON PADDY GROWN AT MONITORING POINT NO. 12 IN ARIS

::						Unit: %
Plant Part		Plot No.	N	Р	K	SiO ₂
		T	1.33	0.070	0.63	17,6
Leaf		I II	1.37 1.19	0.078 0.113	0.03	22.5
e Je		III	1.19	0.114	0.90	19.2
		IV	1.03	0.100	0.69	21.2
Stem		I	0.49	0.069	1.08	18.0
1		11	0.56	0.095	1.13	14.9
	± *	Ш	0.46	0.108	1.05	16.3
	• "	IV	0.60	0.100	1.03	15.1
Brown rice	4.6 %	I	1.61	0.308	0.18	0.4
		II	1.65	0.379	0.24	0.7
	4.1	Ш	1.78	0.409	0.26	0.7
the arts of	•	IV	2.02	0.430	0.25	1.5
Chaff		. <u>I</u>	0.76	0.145	0.28	14.2
		П	1.10	0.222	0.44	12.5
e" .	4.1	Ш	1.11	0.216	0.47	13.1
		IV	1.38	0.277	0.37	10.2

Table F-120 NUTRIENT UPTAKE BY WET SEASON PADDY GROWN AT MONITORING POINT NO. 10 IN ADRIS

	147 Q1 411 Q1411	AG LOIMI NO	*; AV 211, 1		Unit: %
Plant Part	Plot No.	N	Р	K	SiO ₂
	ī	2.12	0.172	0.75	21,1
Leaf	4.1 I	2.12 1.45	0,172	1.16	19.0
•	II	1.43	0.157	0.81	21.1
	III		0.153	0.99	20.3
	IV	1.66	0.133	0.77	
C4	. I	1.13	0.135	1.12	21.9
Stem	II	1.02	0.161	1.26	17.8
			0.140	1.05	21.7
	III IV	1.10	0.154	1.32	17.2
	1 4	1,17	, 0,154	2.02	
Brown rice	I	2.03	0.411	0.27	g . j . j . j . j . j . j . j
Diowit tice	П	2.03	0.408	0.27	1.2
	III	2.54	0.447	0.27	1.0
	IV	2.00	0,430	0.27	0.8
	1,4	2.00	0,100		
Chaff	I	1.54	0.283	0.52	11.1
Calali	ı II	1.44	0.291	0.50	10.1
•	III	1.71	0.279	0.50	12.9
	IV	1.41	0.240	0.53	10.5

Table F-121 HEAVY METALS ABSORBED BY WET SEASON PADDY GROWN AT MONITORING POINT NO. 2 IN ARIS

							Jnit: ppm
Plant Part		Plot No.	Cu	Pb	Zn	Cd	As
Leaf		Ĭ	49.4	2,43	25.4	0.06	
	1 13	İl	10.8	2.05	18.7	0.11	_
		III	12.1	2.56	25.4	0.11	
		IV	13.9	1.85	17.0	0.04	_
Stem		I .	75.2	4.37	37.3	0.24	A
•		II	57.8	3.09	60.9	0.47	-
		III	34.8	2.51	60.1	0.25	
	e Turk	IV	45.5	3.63	24.4	0.33	
Brown rice	% - ÷	· : I ···	8.2	0.76	37.3	0.34	
		11	6.2	0.37	30.9	0.32	_
		Ш	5.8	+	28.3	0.40	
		IV	5.5	0.19	27.7	0.40	
Chaff		1	13.1	+	44.4	0.44	_
	, ** -	II	5.3	+	42.1	0.51	
		III	5.3	+ '	40.0	0.40	
		IV	6.8	+	20.0	0.42	
Root		I ',	509	10.9	167	1.24	0.004
1.7	÷	II	174	12.9	155	1.22	0.021
Control of the second of the s		Ш	167	17.5	89.2	0.98	0.005
er en		1V	200	19.8	62.6	0.93	0.009

+: Trace

--: Not analyzed

Table F-122 HEAVY METALS ABSORBED BY WET SEASON PADDY GROWN AT MONITORING POINT NO. 4 IN ARIS

						Unit: ppm
Plant Part	Plot No.	Cu	Pb	Zn	Cd	As
Leaf	I	28.7	2.22	23.3	0.07	
L eai	ll II	27.5	2.89	25.3	0.15	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	III	48.8	3.31	28.7	0.17	·
	IV	17.8	2.57	23.7	0.15	
Stem	I	47.2	4,18	47.2	0.40	
occii.	11	38.8	2.20	36.1	0.59	
	III	66.9	2.62	45.4	0.52	тары
· .	IV	40.9	2.00	43.6	0.69	·
Brown rice	1	3.0	1.14	.14.3	0.04	
	II	5.3	+	30.7	0.13	! !:
	Ш	5.3	1.71	26.4	0.17	
	IV .	5.0	1.88	31.7	0.13	
Chaff	I	6.7	1.11	26.4	0.09	
	11	5.2	0.37	43.4	0.13	
	111	6.5	1.67	34.3	0.15	
•	IV	5.0	0.37	34.6	0.15	•
Root	I	906	24.3	82.1	1.43	0.005
	II	490	20.6	86.7	2.40	0.019
	Ш	511	47.8	75.8	1.72	0.013
	IV	611	56.2	71.4	2.83	0.013

+: Trace

-: Not analyzed

Table F-123 HEAVY METALS ABSORBED BY WET SEASON PADDY GROWN AT MONITORING POINT No. 6 IN ARIS

. 11					J	Init: ppm
Plant Part	Plot No.	Cu	Pb	Zn	Cd	As
Leaf	· I	36.4	4.21	22.7	0.06	
	II	19.5	1.84	19.5	0.04	
en grande de la companya de la comp La companya de la companya de	- 111	10.9	9.08	19.8	0.06	
	IV	8.6	1.80	20.5	0.07	
Stem	. I	60.3	1.92	39.3	0.07	
	. 11	44.2	2.17	55.3	0.09	
	Ш	55.6	1.02	52.7	0.12	
	IV	50.9	2.55	47.4	0.18	
Brown rice	\cdot , \mathbf{I}	6.6	0.99	28.9	+	
	П	4.6	+	28.3	+	-
	Ш	3.8	0.57	20.2	+	
	IV	4.0	1.14	17.6	0.04	
Chaff	I	7.9	0.37	96.3	+	
	II	5.3	0.37	43.1	0.06	
and Marketine and American State of the Community of the	Ш	4.0	+	52.7	0.07	
e de la companya de La companya de la co	IV	4.6	0.91	43.7	0.07	
Root	1	505	7.80	69.6	0.66	0.014
. *	· II	256	6.43	72.6	0.62	0.006
	Ш	109	4.59	55.7	0.55	0.011
	ĮV	149	4.60	65.7	0.10	0.010

+: Trace

__: Not analyzed

Table F-124 HEAVY METALS ABSORBED BY WET SEASON PADDY GROWN AT MONITORING POINT NO. 8 IN ARIS

		-				Unit: ppm
Plant Part	Plot No.	Cu	Pb	Zn	Cd	As
Leaf	I	36.6	1.63	23.6	0.04	·
:	11	32.6	5.45	28.6	0.18	
	Ш	26.1	2.76	27.0	0.11	APA-VIOLE
Stem	1	75.4	0.73	40.1	0.11	
	H	44.2	2.78	63.8	0.50	
	: III	38.7	1.80	68.3	0.67	
Brown rice	I	5.5	0.95	25.7	0.06	, <u></u> ,
	II	6.1	1.91	29.5	0.19	
	Ш	5.1	0.38	27.7	0.15	rate of the first
Chaff	I	5.3	0.18	45.6	0.04	
•	II	5.9	0.74	40.4	0.18	
	Ш	4.8	0.89	40.9	0.18	-
Root	1	352	7.80	49.0	0.52	0.014
	Ш	439	18.3	21.4	1.71	0.014
	Ш	230	14.4	70.0	2.63	0.006

Remarks; Not analyzed

Table F-125 HEAVY METALS ABSORBED BY WET SEASON PADDY GROWN AT MONITORING POINT NO. 12 IN ARIS

	. *					<u> </u>	Init: ppm
Plant Part		Plot No.	Cu	Pb	Zn	Cd	As
Leaf		I	9.6	4.99	24.8	0.04	
	30.0	: II	9.8	5.45	17.8	0.04	
		III	10.8	3.67	22.4	0.02	
	1	IV	17.2	4.57	23.0	0.05	
Stem		. I	54.1	1.64	62.0	0.35	
	. Mark		48.1	3.74	44.5	0.45	
		Ш	34.0	1.30	36.4	0.19	
		lV .	31.4	1.12	62.5	0.28	_
Brown rice		1	8.8	0.76	29.3	0.04	
	1414	⊕ H	6.1	2.30	26.8	0.12	
		İII	5.3	2.29	26.3	0.12	_
		IV	6.1	0.95	27.0	0.11	
Chaff		I	6.3	0.74	58.8	0.06	
		II	-5.9	0.19	47.1	0.09	
		Ш	5.6	0.93	45.5	0.07	
		IV	6.7	1.05	76.3	0.08	
Root		I	240	10.8	108	2.48	0.005
1.14.1		11	294	33.5	92.2	4.27	0.014
		III	58.2	18.1	78.7	2.02	0.007
Material Control		IV	153	16.8	66.3	2.79	0.005

+ : Trace

-: Not analyzed

Table F-126 HEAVY METALS ABSORBED BY WET SEASON PADDY GROWN AT MONITORING POINT NO. 10 IN ADRIS

						Unit: ppm
Plant Part	Plot No.	Cu	Pb	Zn	Cd	As
Leaf	I	8.0	2.01	22.8	4	
	II	5.3	1.83	22.5	0.04	
	· III	7.1	1.27	23.5	0.02	
	17	6.1	2.39	25.0	+	
Stem	·	10.4	1.46	61.2	0.02	, 1 ₂₀ - 121 - 1
	ŢII	10.3	1.68	59.9	0.02	
	į III	10.9	1.98	68.4	0.02	AL ARLIA
	IV	8.9	1.95	55.5	0.02	.
Brown rice	I	4.9	1.90	26.9	0.06	- معيد
	.11.	4.0	1.13	26.8	0.02	
	Ш	5.6	0.94	29.3	+	
	IV	3.4	1.32	26.0	0.02	2 °
Chaff	. 1	4.5	1.67	31.8	+	
44, 1	П	4.0	0.54	28.4	0.02	
	Ш	5.4	2.79	31.3	+	
	IV	5.0	2.24	18.5	***************************************	
Root	l	11.3	5.89	318	+	0.009
	11	10.1	7.03	141	, [†] +	0.014
	111	16.2	4.76	113	+	0.012
	IV	11,8	4.29	137	+	0.013

+: Trace

-: Not analyzed

Table F-127 MONTHLY AVERAGE AREAL RAINFALL ESTIMATED FOR 21 YEARS JUDGED HYDROLOGICALLY RELIABLE

								•						Jnit: mm
Year	. :	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1949		ı	2	71	42	76	185	442	285	440	294	38	87	1,964
1950		. 6	10	75	110	149	294	791	872	360	294	24	23	3,008
1951		11	12	7 .	72	208	346	537	733	291	98	49	14	2,377
1952		- 11	10	24	110	211	266	426	590	282	104	63	. 31	2,129
1953		3	6	. 41	79	234	278	419	681	194	52	386	38	2,410
1954	1.4	* I	20	- 121	90	87	136	279	418	277	177	259	. 1	1,868
1955	***	5	. 0	Į	163	141	142	291	244	331	139	68	5	1,531
1956		-7	34	7	134	222	153	257	385	717	149	200	38	2,304
1957		- 3	0	71 .	60	89	459	287	378	480	77	64	. 18	1,988
1958		15	3	2 .	71	92	463	581	227	424	184	8	2	2,073
1960		18	70	17	170	314	211	170	806	541	152	47	9	2,523
1961	. 1.5	0	0	49	58	195	274	447	435	356	208	44	3	2,071
1962		1	3	7	75	198	: 126	1,035	352	998	68	34	3	2,900
1963	1.	4	2	6	4	92	197	274	250	767	50	48	35	2,450
1964		i	1, 1	40	112	191	302	241	1,060	319	397	139	125	2,929
1965	-	1	·. 9	86	156	317	330	484	285	270	68	19	0	2,026
1966		14	4	18	74	596	183	324	367	792	50	140	24	2,587
1968		2	0	3	108	. 155	205	629	1,279	694	26	45	0	3,044
1969	1.50	3	i o	3	59	265	266	765		466	154	56	22	2,492
1971		17	. 6	2	92	119	397	705	443	220	225	56	38	2,320
1980		1.	3	14	6	480	60	810	200	327	185	474	18	2,578
Mean		6	. 9	32	88	211	277	485	511	455	150	108	25	2,361

Table F-128 PROPOSED IRRIGATION AREA BY SYSTEM UNDER SAN ROQUE MULTIPURPOSE PROJECT

Cropping Pattern	AF	RIS		RIS ension	AD	RIS	LA	RIS
an Crosping . Cross	%	ha	%	ha	%	ha	%	ha
1. Paddy/Paddy	47	12,620	35	8,300	25	1,900	36	4,550
2. Paddy/Tabacco	8	2,150	9	2,130	19	1,440	18	2,280
	16	4,300	28	6,640	21	1,600	21	2,660
3. Paddy/Cotton	17	4.560	17	4,030	17	1,300	17	2,150
4. Paddy/Corn	1	800	5	1,180	14	1,060	3	380
5. Paddy/Vegetables (2 crops)	3	270	. 1	240	4	300	1	130
6. Vegetables (3 crops)7. Sugarcane	8	2,150	5	1,180			4	500
Total	100	26,850	100	23,700	100	7,600	100	12,659

Table F-129 IRRIGATION DIVERSION REQUIREMENT FOR CROPPING PATTERNS OF PADDY-PADDY AND PADDY-TOBACCO

Venz										·	·	Un	it:m³/ha
Year in Order	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oçt.	Nov.	Dec.	Total
											*		
l) Paddy-Pa	addy								2.22			2.305	
.,	HH = 2.					100		4.14	563	216	2,425	3,325	30 376
2	5,565	3,552	1,460	0	0	1,617	1,076	768	545	216	2,344	3,633	20,776
3	5,478	3,533	1,669	0	0	1,655	1,102	786	767	564	2,326	3,754	21,634
4	5,568	3,552	1,634	0	0	1,712	1,619	824	676	523	2,283	3,585	21,976
5	5,538	3,677	1,586	ŏ	ő.	1,634	1,470	901	991	654	1,675	3,508	21,634
	3,336	3,077	1,500	Ü	.				•				. 14.50
	5,266	3,501	1,381	0	0	1,914	2,355	1,398	606	218	2.005	3,843	22,487
6 7			1,688	ŏ	ŏ	1,839	2,099	1,526	1,319	345	2,253	3,785	24,191
	5,571	3,766	1,647	0	· · ŏ	1,850	2,101	1,446	440	568	1,617	3,535	22,121
8	5,558	3,359				1,488	1,616	1,651	530	589	2,264	3,815	22,402
9	5,269	3,721	1,459	0	0 .		859	1,672	537	160	2,320	3,993	21,666
10	5,442	3,704	1,675	0	0 .	1,304	. 639	1,072	337	100	21,524	5,775	
	·	2.001		ο.	Λ	1,545	1,928	903	518	407	2,265	3,935	21,619
П	5,453	3,291	1,374	0	0				545		2,269	3,903	22,020
12	5,703	3,764	1,374	0	0	1,702	1,044	1,547		, 199 499	2,367	4,064	23,072
13	5,704	3,774	1,636	0	0	1,841	1,292	1,261	634			3,752	21,184
14	5,691	3,756	1,688	0	0	648	796	1,500	378	621	2,354		
15	5,589	3,748	1,483	0	0	1,599	1,719	749	583	262	1,940	2,897	20,569
			•								0.400	4 100	21.626
16	5,236	3,605	1,461	0	0	1,124	999	1,321	557	606	2,430	4,196	21,535
17	5,647	3,719	1,582	0	0 -	1,611	1,284	1,098	605	602	2,179	3,591	21,918
18	5,702	3,781	1,639	0	0	1,838	1,416	859	554	717	2,483	4,039	23,028
19	5,672	3,754	1,677	0	0	1,710	1,224	1,484	589	218	2,289	3,674	22,291
20	5,448	3,677	1,675	ŏ	ŏ	1,214	1,320	1,476	774	217	2,289	3,508	21,598
20	3,446	3,077	1,075	v	·							2.216	21.222
21	5,449	3,739	1,602	0	0	1,740	1,080	1,586	951	160	1,600	3,815	21,722
Mean	5,527	3,649	1,570	0	0	1,579	1,420	1,238	655	416	2,178	3,741	21,972
	_												
?) Paddy-To	obacco								505	480	6	459	43 <u> </u>
1						1.205	* £00	411	595 545	489	0	459 669	
·	2,808	3,138	1,874	803	0	1,395	1,598	611	545	489	2	669	13,932
1		3,138 3,111	1,874 2,723	858	0	1,400	1,572	715	545 589	489 948	2 4	669 990	13,932 15,518
1 2 3	2,808					1,400 1,421	1,572 2,019	715 766	545 589 530	489 948 918	2 4 2	669 990 772	13,932 15,518 15,725
1 2	2,808 2,608	3,111	2,723	858	0	1,400	1,572	715	545 589	489 948	2 4	669 990	13,932 15,518 15,725
1 2 3 4 5	2,808 2,608 2,711 2,670	3,111 3,138 3,289	2,723 2,645 2,525	858 803 834	0 0 0	1,400 1,421 1,421	1,572 2,019 1,743	715 766 858	545 589 530 913	489 948 918 1,040	2 4 2 0	669 990 772 226	13,932 15,518 15,725 15,519
1 2 3 4 5	2,808 2,608 2,711 2,670 2,664	3,111 3,138 3,289 3,093	2,723 2,645 2,525 1,949	858 803 834 617	0 0 0	1,400 1,421 1,421 1,555	1,572 2,019 1,743 2,805	715 766 858 1,443	545 589 530 913	489 948 918 1,040	2 4 2 0	669 990 772 226 663	13,932 15,518 15,725 15,519
1 2 3 4 5	2,808 2,608 2,711 2,670	3,111 3,138 3,289	2,723 2,645 2,525 1,949 2,421	858 803 834 617 358	0 0 0	1,400 1,421 1,421 1,555 1,589	1,572 2,019 1,743 2,805 2,571	715 766 858 1,443 1,620	545 589 530 913 582 1,319	489 948 918 1,040 540 666	2 4 2 0	669 990 772 226 663 954	13,932 15,518 15,725 15,519 15,911 17,570
1 2 3 4 5	2,808 2,608 2,711 2,670 2,664	3,111 3,138 3,289 3,093	2,723 2,645 2,525 1,949	858 803 834 617	0 0 0	1,400 1,421 1,421 1,555 1,589 1,539	1,572 2,019 1,743 2,805 2,571 2,647	715 766 858 1,443 1,620 1,499	545 589 530 913 582 1,319 321	489 948 918 1,040 540 666 963	2 4 2 0	669 990 772 226 663 954 0	13,932 15,518 15,725 15,519 15,911 17,570 15,351
1 2 3 4 5	2,808 2,608 2,711 2,670 2,664 2,824 2,792	3,111 3,138 3,289 3,093 3,248 2,803	2,723 2,645 2,525 1,949 2,421	858 803 834 617 358	0 0 0	1,400 1,421 1,421 1,555 1,589	1,572 2,019 1,743 2,805 2,571 2,647 1,942	715 766 858 1,443 1,620 1,499 1,484	545 589 530 913 582 1,319 321 479	489 948 918 1,040 540 666 963 980	2 4 2 0 0 0	669 990 772 226 663 954 0	13,932 15,518 15,725 15,519 15,911 17,570 15,351 15,068
1 2 3 4 5	2,808 2,608 2,711 2,670 2,664 2,824	3,111 3,138 3,289 3,093 3,248	2,723 2,645 2,525 1,949 2,421 2,311	858 803 834 617 358 476	0 0 0 0	1,400 1,421 1,421 1,555 1,589 1,539	1,572 2,019 1,743 2,805 2,571 2,647	715 766 858 1,443 1,620 1,499	545 589 530 913 582 1,319 321	489 948 918 1,040 540 666 963	2 4 2 0	669 990 772 226 663 954 0	13,932 15,518 15,725 15,519 15,911 17,570 15,351 15,068
1 2 3 4 5 6 7 8 9	2,808 2,608 2,711 2,670 2,664 2,824 2,792 2,029 2,751	3,111 3,138 3,289 3,093 3,248 2,803 3,252 3,159	2,723 2,645 2,525 1,949 2,421 2,311 1,964 2,392	858 803 834 617 358 476 484 518	0 0 0 0 0 0 0	1,400 1,421 1,421 1,555 1,589 1,539 1,492 1,134	1,572 2,019 1,743 2,805 2,571 2,647 1,942 1,322	715 766 858 1,443 1,620 1,499 1,484 1,517	545 589 530 913 582 1,319 321 479 507	489 948 918 1,040 540 666 963 980 396	2 4 2 0 0 0 0 0 1	669 990 772 226 663 954 0 961 1,268	13,932 15,518 15,725 15,519 15,911 17,570 15,351 15,068 15,013
1 2 3 4 5 6 7 8 9	2,808 2,608 2,711 2,670 2,664 2,824 2,792 2,029 2,751 2,781	3,111 3,138 3,289 3,093 3,248 2,803 3,252 3,159 2,799	2,723 2,645 2,525 1,949 2,421 2,311 1,964 2,392 1,816	858 803 834 617 358 476 484 518	0 0 0 0 0 0 0	1,400 1,421 1,421 1,555 1,589 1,539 1,492 1,134	1,572 2,019 1,743 2,805 2,571 2,647 1,942 1,322 2,398	715 766 858 1,443 1,620 1,499 1,484 1,517	545 589 530 913 582 1,319 321 479 507	489 948 918 1,040 540 666 963 980 396	2 4 2 0 0 0 0 0 1 49	669 990 772 226 663 954 0 961 1,268	13,932 15,518 15,725 15,519 15,911 17,570 15,351 15,068 15,013
1 2 3 4 5 6 7 8 9 10	2,808 2,608 2,711 2,670 2,664 2,824 2,792 2,029 2,751 2,781 2,950	3,111 3,138 3,289 3,093 3,248 2,803 3,252 3,159 2,799 3,267	2,723 2,645 2,525 1,949 2,421 2,311 1,964 2,392 1,816 1,940	858 803 834 617 358 476 484 518 221 514	0 0 0 0 0 0 0	1,400 1,421 1,421 1,555 1,589 1,539 1,492 1,134 1,297 1,455	1,572 2,019 1,743 2,805 2,571 2,647 1,942 1,322 2,398 1,403	715 766 858 1,443 1,620 1,499 1,484 1,517 716 1,342	545 589 530 913 582 1,319 321 479 507 542 545	489 948 918 1,040 540 666 963 980 396 707 403	2 4 2 0 0 0 0 1 49 49	669 990 772 226 663 954 0 961 1,268	13,932 15,518 15,725 15,519 15,911 17,570 15,351 15,068 15,013
1 2 3 4 5 6 7 8 9	2,808 2,608 2,711 2,670 2,664 2,824 2,792 2,029 2,751 2,781	3,111 3,138 3,289 3,093 3,248 2,803 3,252 3,159 2,799	2,723 2,645 2,525 1,949 2,421 2,311 1,964 2,392 1,816 1,940 1,870	858 803 834 617 358 476 484 518 221 514 320	0 0 0 0 0 0 0	1,400 1,421 1,421 1,555 1,589 1,539 1,492 1,134 1,297 1,455 1,561	1,572 2,019 1,743 2,805 2,571 2,647 1,942 1,322 2,398 1,403 1,873	715 766 858 1,443 1,620 1,499 1,484 1,517 716 1,342 1,212	545 589 530 913 582 1,319 321 479 507 542 545 812	489 948 918 1,040 540 666 963 980 396 707 403 870	2 4 2 0 0 0 0 1 49 12 93	669 990 772 226 663 954 0 961 1,268	13,932 15,518 15,725 15,519 15,911 17,570 15,351 15,068 15,013 14,446 15,003 16,071
1 2 3 4 5 6 7 8 9 10	2,808 2,608 2,711 2,670 2,664 2,824 2,792 2,029 2,751 2,781 2,950	3,111 3,138 3,289 3,093 3,248 2,803 3,252 3,159 2,799 3,267	2,723 2,645 2,525 1,949 2,421 2,311 1,964 2,392 1,816 1,940	858 803 834 617 358 476 484 518 221 514 320 366	0 0 0 0 0 0 0 0	1,400 1,421 1,421 1,555 1,589 1,539 1,492 1,134 1,297 1,455 1,561 625	1,572 2,019 1,743 2,805 2,571 2,647 1,942 1,322 2,398 1,403 1,873 915	715 766 858 1,443 1,620 1,499 1,484 1,517 716 1,342 1,212 1,326	545 589 530 913 582 1,319 321 479 507 542 545 812 410	489 948 918 1,040 540 666 963 980 396 707 403 870 1,004	2 4 2 0 0 0 0 1 49 12 93	669 990 772 226 663 954 0 961 1,268 1,120 1,172 1,365 959	13,932 15,518 15,725 15,519 15,911 17,570 15,351 15,068 15,013 14,446 (5,003 16,077
1 2 3 4 5 6 7 8 9 10	2,808 2,608 2,711 2,670 2,664 2,824 2,792 2,029 2,751 2,781 2,950 2,951	3,111 3,138 3,289 3,093 3,248 2,803 3,252 3,159 2,799 3,267 3,144	2,723 2,645 2,525 1,949 2,421 2,311 1,964 2,392 1,816 1,940 1,870	858 803 834 617 358 476 484 518 221 514 320	0 0 0 0 0 0 0	1,400 1,421 1,421 1,555 1,589 1,539 1,492 1,134 1,297 1,455 1,561	1,572 2,019 1,743 2,805 2,571 2,647 1,942 1,322 2,398 1,403 1,873	715 766 858 1,443 1,620 1,499 1,484 1,517 716 1,342 1,212	545 589 530 913 582 1,319 321 479 507 542 545 812	489 948 918 1,040 540 666 963 980 396 707 403 870	2 4 2 0 0 0 0 1 49 12 93	669 990 772 226 663 954 0 961 1,268	13,932 15,518 15,725 15,519 15,911 17,570 15,351 15,068 15,013 14,446 (5,003 16,077
1 2 3 4 5 6 7 8 9 10	2,808 2,608 2,711 2,670 2,664 2,824 2,792 2,029 2,751 2,781 2,950 2,951 2,952 2,863	3,111 3,138 3,289 3,093 3,248 2,803 3,252 3,159 2,799 3,267 3,144 3,124 3,140	2,723 2,645 2,525 1,949 2,421 2,311 1,964 2,392 1,816 1,940 1,870 1,921 1,673	858 803 834 617 358 476 484 518 221 514 320 366 321	0 0 0 0 0 0 0 0	1,400 1,421 1,421 1,555 1,589 1,492 1,134 1,297 1,455 1,561 625 1,369	1,572 2,019 1,743 2,805 2,571 2,647 1,942 1,322 2,398 1,403 1,873 915 2,395	715 766 858 1,443 1,620 1,499 1,484 1,517 716 1,342 1,212 1,326 506	545 589 530 913 582 1,319 321 479 507 542 545 812 410 590	489 948 918 1,040 540 666 963 980 396 707 403 870 1,004 575	2 4 2 0 0 0 0 1 49 12 93 99 16	669 990 772 226 663 954 0 961 1,268 1,120 1,172 1,365 959	13,932 15,518 15,725 15,519 15,911 17,570 15,351 15,068 15,013 14,446 15,003 16,077 13,701
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	2,808 2,608 2,711 2,670 2,664 2,824 2,792 2,029 2,751 2,781 2,950 2,951 2,952 2,863	3,111 3,138 3,289 3,093 3,248 2,803 3,252 3,159 2,799 3,267 3,144 3,124 3,063	2,723 2,645 2,525 1,949 2,421 2,311 1,964 2,392 1,816 1,940 1,870 1,921 1,673	858 803 834 617 358 476 484 518 221 514 320 366 321	0 0 0 0 0 0 0 0 0	1,400 1,421 1,421 1,555 1,589 1,539 1,492 1,134 1,297 1,455 1,561 625 1,369	1,572 2,019 1,743 2,805 2,571 2,647 1,942 1,322 2,398 1,403 1,873 915 2,395	715 766 858 1,443 1,620 1,499 1,484 1,517 716 1,342 1,212 1,326 506	545 589 530 913 582 1,319 321 479 507 542 545 812 410 590	489 948 918 1,040 540 666 963 980 396 707 403 870 1,004 575	2 4 2 0 0 0 0 1 49 12 93 96 16	669 990 772 226 663 954 0 961 1,268 1,120 1,172 1,365 959 0	13,932 15,518 15,725 15,519 15,911 17,570 15,351 15,068 15,013 14,446 15,003 16,071 13,701
1 2 3 4 5 6 7 8 9 10	2,808 2,608 2,711 2,670 2,664 2,824 2,792 2,029 2,751 2,781 2,950 2,951 2,952 2,863 1,608 2,918	3,111 3,138 3,289 3,093 3,248 2,803 3,252 3,159 2,799 3,267 3,144 3,124 3,140 3,063 3,066	2,723 2,645 2,525 1,949 2,421 2,311 1,964 2,392 1,816 1,940 1,870 1,921 1,673	858 803 834 617 358 476 484 518 221 514 320 366 321 219 270	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1,400 1,421 1,421 1,555 1,589 1,539 1,492 1,134 1,297 1,455 1,561 625 1,369 1,232 1,330	1,572 2,019 1,743 2,805 2,571 2,647 1,942 1,322 2,398 1,403 1,873 915 2,395 1,140 1,790	715 766 858 1,443 1,620 1,499 1,484 1,517 716 1,342 1,212 1,326 506 1,176 883	545 589 530 913 582 1,319 321 479 507 542 545 812 410 590	489 948 918 1,040 540 666 963 980 396 707 403 870 1,004 575	2 4 2 0 0 0 1 49 12 93 99 16	669 990 772 226 663 954 0 961 1,268 1,120 1,172 1,365 959 0	13,932 15,518 15,725 15,519 15,911 17,570 15,351 15,068 15,013 14,446 15,003 16,071 13,701 13,448 13,358
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	2,808 2,608 2,711 2,670 2,664 2,824 2,792 2,029 2,751 2,781 2,950 2,951 2,952 2,863	3,111 3,138 3,289 3,093 3,248 2,803 3,252 3,159 2,799 3,267 3,144 3,124 3,063	2,723 2,645 2,525 1,949 2,421 2,311 1,964 2,392 1,816 1,940 1,870 1,921 1,673	858 803 834 617 358 476 484 518 221 514 320 366 321 219 270 299	0 0 0 0 0 0 0 0 0 0	1,400 1,421 1,421 1,555 1,589 1,539 1,492 1,134 1,297 1,455 1,561 625 1,369 1,232 1,330 1,522	1,572 2,019 1,743 2,805 2,571 2,647 1,942 1,322 2,398 1,403 1,873 915 2,395 1,140 1,790 1,971	715 766 858 1,443 1,620 1,499 1,484 1,517 716 1,342 1,212 1,326 506 1,176 883 970	545 589 530 913 582 1,319 321 479 507 542 545 812 410 590 547 634 596	489 948 918 1,040 540 666 963 980 396 707 403 870 1,004 575 1,024 978 1,109	2 4 2 0 0 0 0 1 49 12 93 96 16	669 990 772 226 663 961 1,268 1,120 1,172 1,365 959 0	13,932 15,518 15,725 15,519 15,911 17,570 15,351 15,068 15,003 16,071 13,701 13,448 13,358 14,177 16,030
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	2,808 2,608 2,711 2,670 2,664 2,824 2,792 2,029 2,751 2,781 2,950 2,951 2,952 2,863 1,608 2,918 3,052	3,111 3,138 3,289 3,093 3,248 2,803 3,252 3,159 2,799 3,267 3,144 3,124 3,140 3,063 3,066	2,723 2,645 2,525 1,949 2,421 2,311 1,964 2,392 1,816 1,940 1,870 1,921 1,673	858 803 834 617 358 476 484 518 221 514 320 366 321 219 270	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1,400 1,421 1,421 1,555 1,589 1,539 1,492 1,134 1,297 1,455 1,561 625 1,369 1,232 1,330 1,522 1,411	1,572 2,019 1,743 2,805 2,571 2,647 1,942 1,322 2,398 1,403 1,873 915 2,395 1,140 1,790 1,971 1,636	715 766 858 1,443 1,620 1,499 1,484 1,517 716 1,342 1,212 1,326 506 1,176 883 970 1,286	545 589 530 913 582 1,319 321 479 507 542 545 812 410 590 547 634 596 682	489 948 918 1,040 540 666 963 980 396 707 403 870 1,004 575 1,024 978 1,109 466	2 4 2 0 0 0 0 1 49 12 93 99 16	669 990 772 226 663 954 0 961 1,268 1,120 1,172 1,365 959 0	13,932 15,518 15,725 15,519 15,911 17,570 15,351 15,068 15,003 16,071 13,701 13,448 13,358 14,17 16,030 13,861
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	2,808 2,608 2,711 2,670 2,664 2,824 2,792 2,029 2,751 2,781 2,950 2,951 2,952 2,863 1,608 2,918	3,111 3,138 3,289 3,093 3,248 2,803 3,252 3,159 2,799 3,267 3,144 3,124 3,063 3,066 3,135	2,723 2,645 2,525 1,949 2,421 2,311 1,964 2,392 1,816 1,940 1,870 1,921 1,673 1,625 1,786 1,893	858 803 834 617 358 476 484 518 221 514 320 366 321 219 270 299	0 0 0 0 0 0 0 0 0 0	1,400 1,421 1,421 1,555 1,589 1,539 1,492 1,134 1,297 1,455 1,561 625 1,369 1,232 1,330 1,522	1,572 2,019 1,743 2,805 2,571 2,647 1,942 1,322 2,398 1,403 1,873 915 2,395 1,140 1,790 1,971	715 766 858 1,443 1,620 1,499 1,484 1,517 716 1,342 1,212 1,326 506 1,176 883 970	545 589 530 913 582 1,319 321 479 507 542 545 812 410 590 547 634 596	489 948 918 1,040 540 666 963 980 396 707 403 870 1,004 575 1,024 978 1,109	2 4 2 0 0 0 0 1 49 12 93 96 16	669 990 772 226 663 961 1,268 1,120 1,172 1,365 959 0	13,932 15,518 15,725 15,519 15,911 17,570
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	2,808 2,608 2,711 2,670 2,664 2,824 2,792 2,029 2,751 2,781 2,950 2,951 2,952 2,863 1,608 2,918 3,052 2,949	3,111 3,138 3,289 3,093 3,248 2,803 3,252 3,159 2,799 3,267 3,144 3,124 3,140 3,063 3,066 3,135 2,908	2,723 2,645 2,525 1,949 2,421 2,311 1,964 2,392 1,816 1,940 1,870 1,921 1,673 1,625 1,786 1,893 1,561	858 803 834 617 358 476 484 518 221 514 320 366 321 219 270 299 104	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1,400 1,421 1,421 1,555 1,589 1,539 1,492 1,134 1,297 1,455 1,561 625 1,369 1,232 1,330 1,522 1,411	1,572 2,019 1,743 2,805 2,571 2,647 1,942 1,322 2,398 1,403 1,873 915 2,395 1,140 1,790 1,971 1,636	715 766 858 1,443 1,620 1,499 1,484 1,517 716 1,342 1,212 1,326 506 1,176 883 970 1,286	545 589 530 913 582 1,319 321 479 507 542 545 812 410 590 547 634 596 682	489 948 918 1,040 540 666 963 980 396 707 403 870 1,004 575 1,024 978 1,109 466	2 4 2 0 0 0 0 1 49 12 93 99 16	669 990 772 226 663 954 0 961 1,268 1,120 1,172 1,365 959 0	13,932 15,518 15,725 15,519 15,911 17,570 15,351 15,068 15,013 14,446 15,003 16,071 13,701 13,448 13,358 14,177 16,030 13,861

Table F-130 IRRIGATION DIVERSION REQUIREMENT FOR CROPPING PATTERNS OF PADDY-DIVERSIFIED CROPS (COTTON AND CORN)

Unit: m3/ha Year Total Feb. Mar. May June Sept. Oct. Nov. Dec Jan. Apr. July Aug. in Order (1) Paddy-Cotton 0 830 330 52 1.390 15.835 3,470 3,456 1,788 669 0 1.865 1,930 830 381 52 4 2 1.318 3,405 784 1,683 1,324 822 818 588 7 16,451 3.085 2,617 0 3 2 1,089 16,793 2,495 669 1,796 2,051 759 664 536 3.276 3.456 0 4 2,254 1.645 941 973 637 0 474 16,065 669 n 1.563 5 3,269 3,610 16,595 196 0 1.011 3.028 3,378 394 O 2,025 2.856 1.350 627 6 1,730 18,749 1,406 448 149 1,949 2,636 1,369 1,232 238 0 3.537 3,534 2,251 16,113 1,202 496 462 n O 2,985 2.330 490 378 1,919 2,449 3,402 8 472 435 10 1,635 16,570 3,518 454 1,532 1.952 1.413 1,854 465 2,830 10 81 0 1,946 16,039 443 3,169 3,406 2,246 447 432 1,434 1,309 1,126 15,823 1,843 13 3,295 2,908 1,628 99 307 2,110 2,408 697 349 166 11 16,210 1.818 a 1,496 996 381 46 1,563 375 394 2,216 12 3.461 3,464 17,520 838 557 201 121 2.166 1,785 414 2,425 1,635 3.348 367 13 3,663 1,006 272 293 170 1,660 15,396 1:346 1.098 3,519 3,306 1,962 328 436 14 0 14,408 57 0 2,359 326 463 3,318 3,506 1,598 284 412 2.085 15 205 281 2.456 14,905 149 497 854 394 3,125 1,605 1.766 2,457 łó 14,933 1.161 579 453 151 n 3,083 1,720 157 349 2,072 1,750 3,458 17 17,761 2,607 2.098 595 383 147 545 2,091 812 18 3,585 3,120 1,591 187 0 0 1,618 16,519 1.487 216 2.060 3,616 3,028 1,465 190 743 2,096 19 474 15,900 26 0 371 301 1,600 2,079 1.277 684 3,610 2,246 3,232 20 0 1.635 16,696 81 1,950 1,066 848 328 2,173 3,377 1.744 330 21 3,164 1.360 16,264 1:918 977 555 230 58 395 320 1,905 3,301 3,322 1,924 Mean (2) Paddy-Corn 595 489 0 456 7 628 15,793 959 545 489 2 3,119 2,775 1,545 149 1,374 1,509 2.699 960 16,958 948 4 589 1,703 73 1,392 1,542 714 3,418 3 2,529 3,086 16,985 749 918 7 1,976 765 530 1,411 2,611 3,119 3,314 1,545 45 16,791 0 205 913 1,040 1.721 3,154 1.415 1,629 20 5 2,573 3,271 16,757 0 622 582 540 1.417 2 787 3.081 2,442 1,218 150 1,552 2.366 6 917 19,373 0 666 1,565 2,521 1,574 1.318 152 1,116 3.469 2,714 3.361 17,137 963 0 0 2,553 1.485 321 1,516 31 2,903 3,326 1,355 2,684 8 em 5 914 17,009 479 980 1 1.475 1,889 1,469 3,376 2,762 1,568 168 1.928 17,176 1,515 507 396 49 1,201 1,257 1,596 177 1,098 3,292 3,448 10 2.640 49 1,062 15,862 707 1,272 2,348 666 542 123 2,723 830 Ħ 2,673 2,867 17,033 1,106 403 12 1,432 1,530 1,329 1,325 545 1,683 141 3,422 2,796 12 2,839 91 1,293 18,976 1,204 812 870 1,761 3,345 1,624 178 2,845 3,423 13 17,084 97 410 1,004 912 1,323 591 897 205 3,424 1,967 3,406 14 2.848 16 0 16,051 590 575 1,333 2,222 506 3,005 1:542 62 2,768 3.432 1,453 15,418 183 547 1,024 1,176 1,192 1,026 49 16 1,539 3,360 2,810 1,059 17,098 483 O 634 978 1,717 879 125 1,316 1,559 3,367 3,214 2.826 17 18,745 1,113 596 1,109 285 932 1,838 3,398 145 1,487 1,428 3,455 18 2,959 17,657 466 38 773 682 1,282 1,690 1,369 1,507 119 3,396 2,868 3,467 19 38 205 16,511 446 730 1,145 1,673 1,497 160 3,271 3,448 1.241 20 2,657 O 914 17,670 954 396 1,299 1,524 1,419 1,956 124 2,380 3,346 3,358 · 21 17,104 776 43 1,148 746 1,780 1,338 120 3,272 3.151 1,493 Mean 2,597

Table F-131 IRRIGATION DIVERSION REQUIREMENT FOR CROPPING PATTERNS OF PADDY-VEGETABLE-VEGETABLE AND TRIPLE CROPPING OF VEGETABLE

10 Paddy-Vegetable-Vegetable			CRO	PPING	OF V	EGET	ABLE							and the second
1									٠	1	1 1	<u> </u>	Uni	t (m³/h
1	in	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
2 2,586 1,744 566 0 0 1,415 1,645 952 545 263 0 603 10,3 3 2,533 2,940 1,023 0 0 1,427 1,708 719 589 925 0 1,012 11,9 4 2,525 1,749 772 0 0 1,458 2,168 775 487 692 0 770 11,3 5 2,463 1,841 717 0 0 1,443 1,821 812 863 691 0 207 10,8 6 2,162 77 2,612 1,876 735 0 0 1,612 2,673 1,662 1,164 446 0 954 13,7 8 2,163 71 1,55	Order							· · · · · · · · · · · · · · · · · · ·					<u> </u>	
1) Paddy-V	/egetable-	Vegetable	<u>e</u>						. 2.4	242		406	
2 2,38 2,404 1,023 0 0 1,427 1,708 719 589 925 0 1,012 11.9 4 2,525 1,749 722 0 0 1,458 2,168 775 487 692 0 770 11.3 5 2,463 1,841 717 0 0 1,443 1,521 812 863 691 0 207 10.8 6 2,228 1,741 586 0 0 1,591 2,871 1,553 581 397 00 0,600 12.2 7 2,612 1,876 735 0 0 1,612 2,673 1,662 1,164 446 0 954 13.7 8 2,559 1,647 698 0 0 1,571 2,771 1,588 319 660 0 0 11.8 9 1,721 1,868 629 0 0 1,503 1,970 1,494 460 7,16 1 964 11.3 10 2,520 1,816 729 0 0 1,145 1,360 1,521 503 298 0 1,305 11.1 11 2,458 1,367 275 0 0 1,329 2,495 773 532 340 0 1,114 80,61 12 2,609 1,571 337 0 0 1,480 1,503 1,363 545 225 0 1,160 10.7 12 2,609 1,571 337 0 0 1,480 1,503 1,363 545 225 0 1,160 10.7 13 2,528 1,557 400 0 0 1,382 1,393 1,185 752 376 78 1,365 11.5 15 2,507 1,563 366 0 0 1,255 1,220 1,147 518 516 153 1,579 9.4 17 2,399 1,223 197 0 0 1,336 1,854 873 545 279 0 360 9,1 18 2,407 1,253 209 0 0 1,255 1,220 1,147 518 516 153 1,579 9.4 17 2,399 1,223 197 0 0 1,336 1,854 873 545 279 0 360 9,1 18 2,407 1,253 209 0 0 1,255 1,220 1,147 518 516 153 1,579 9.4 17 2,399 1,223 197 0 0 1,336 1,854 873 545 279 0 360 9,1 18 2,407 1,253 209 0 0 1,254 2,017 1,009 560 309 276 -1,261 10,8 19 2,507 1,563 209 0 0 1,364 2,017 1,009 560 309 276 -1,261 10,8 19 2,507 1,563 300 0 0 1,364 1,665 1,420 873 298 0 964 10,6 20 2,489 1,841 729 0 0 1,200 1,846 1,010 69 1,244 0 0 0 0 0 0 0 86 2,566 17. 21 2,117 1,603 271 0 0 1,385 1,929 1,137 607 431 29 817 10,8 10 Triple Cropping of Vegetable 1 3,354 3,557 3,033 2,165 2,021 399 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1					:								10.310
\$\frac{3}{2} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	ż	2,586	1,744	566	0	0 -	1.415	1,645						10,319
4 2.525 1.749 722 0 0 1.458 2.168 775 487 692 0 7/0 11.5 5 2.463 1.841 717 0 0 1.443 1.821 812 863 691 0 207 10.8 6 2.228 1.7441 586 0 0 1.591 2.871 1.553 581 397 0 680 12.2 7 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5		2.523			0	0	1.427	1,708						11,966
5					0	0	1,458	2,168	775					11,346
6						0			812	863	691	0	207	10,858
6				504	•	Δ.	1 601	1071	1.553	581	307	0	680	12,228
8 2.559 1.647 698 0 0 1.571 2.771 1.588 319 660 0 0 0 1.138 9 1.721 1.868 629 0 0 1.503 1.970 1.494 460 716 1 964 11.3 10 2.520 1.816 729 0 0 1.145 1.360 1.521 503 298 0 1.305 11.1 11 2.458 1.367 275 0 0 1.439 2.495 773 532 349 0 1.106 10.7 11.2 2.609 1.571 337 0 0 1.480 1.503 1.363 545 225 0 1.160 10.7 11.2 2.609 1.571 337 0 0 1.480 1.503 1.363 545 225 0 1.160 10.7 11.2 2.609 1.571 337 0 0 0.1.480 1.503 1.363 545 225 0 1.1.60 10.7 11.3 2.587 1.570 400 0 0 1.582 1.930 1.185 752 376 78 1.385 11.8 14 2.622 1.557 423 0 0 6.30 925 1.318 407 465 79 970 93. 15 2.507 1.563 366 0 0 1.386 2.459 506 582 300 0 0 0 9.5 15 2.507 1.563 366 0 0 1.386 2.459 506 582 300 0 0 0 9.5 18 2.309 1.223 197 0 0 1.336 1.854 873 545 279 0 360 9.1 18 2.407 1.253 209 0 0 1.542 2.017 1.009 560 309 276 1.261 10.8 18 2.407 1.253 209 0 0 1.542 2.017 1.009 560 309 276 1.261 10.8 19 2.507 1.258 214 0 0 1.420 1.675 1.060 625 184 0 746 9.6 20 2.489 1.841 729 0 0 1.200 1.846 1.010 691 224 0 207 10.2 21 2.117 1.693 271 0 0 1.385 1.929 1.137 607 431 29 817 10.8 10.1 11.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2														13,734
8 2,39 1,007 90 0 0 1,503 1,970 1,494 460 716 1 964 113 10 2,520 1,816 729 0 0 1,145 1,360 1,521 503 298 0 1,305 11,1 11 2,458 1,367 275 0 0 1,480 1,503 1,363 345 225 0 1,160 10,7 13 2,587 1,570 400 0 0 1,480 1,503 1,363 345 225 0 1,160 10,7 13 2,587 1,570 400 0 0 1,582 1,930 1,185 752 376 78 1,385 11,8 14 2,622 1,557 423 0 0 6,30 925 1,318 407 465 79 970 9,3 15 2,507 1,563 366 0 0 1,386 2,459 506 582 300 0 0 0 9,6 16 1,145 1,518 302 0 0 1,386 2,459 506 582 300 0 0 0 9,6 17 2,399 1,223 197 0 0 1,386 1,407 465 79 970 9,3 17 2,399 1,223 197 0 0 1,346 1,854 873 454 279 0 360 9,1 18 2,407 1,253 209 0 0 1,542 2,017 1,009 560 309 276 1,261 10,8 19 2,507 1,258 214 0 0 1,420 1,675 1,060 625 184 0 746 20 2,489 1,841 729 0 0 1,200 1,846 1,010 691 224 0 207 10,2 11 2,117 1,693 271 0 0 1,384 1,665 1,420 873 298 0 964 10,6 10,40 1,40 1,40 1,40 1,40 1,40 1,40 1,4														
10 2.520 1.816 729 0 0 1.145 1.360 1.521 503 298 0 1.305 11.1 11 2.458 1.367 275 0 0 1.329 2.495 773 532 349 0 1.114 10.6 112 2.609 1.571 337 0 0 1.480 1.503 1.363 545 225 0 1.160 10.7 113 2.587 1.570 400 0 0 1.582 1.930 1.185 752 376 78 1.385 11.8 14 2.622 1.557 423 0 0 6.30 925 1.318 407 465 79 970 9.3 15 2.507 1.563 366 0 0 1.386 2.459 506 582 300 0 0 0 9.6 16 1.145 1.518 392 0 0 1.326 2.459 506 582 300 0 0 0 9.6 16 1.145 1.518 392 0 0 1.336 1.854 873 545 279 0 360 9.1 17 2.399 1.223 197 0 0 1.336 1.854 873 545 279 0 360 9.1 18 2.407 1.253 209 0 0 1.420 1.675 1.060 625 184 0 746 9.6 19 2.507 1.258 214 0 0 1.420 1.675 1.060 625 184 0 746 9.6 20 2.489 1.841 729 0 0 1.200 1.846 1.010 691 224 0 207 10.2 21 2.117 1.693 271 0 0 1.384 1.665 1.420 873 298 0 964 10.6 Mean 2.379 1.637 511 0 0 1.385 1.929 1.137 607 431 29 817 10.8 Triple Cropping of Vegetable: 1 2 3.524 3.557 2.342 2.165 3.302 100 0 0 0 0 0 0 1.8 2.025 17.4 2 3.354 3.557 3.033 2.165 2.021 399 0 0 0 0 0 86 2.566 17.5 5 3.572 3.607 2.687 2.411 1.620 200 0 0 0 0 0 0 0 0 1.7 2.28 18.3 4 3.456 3.557 3.033 2.165 2.021 399 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8													
11	9	1,721	1,868	629							1.			
11				729	0	. 0.	1,145	1,360	1,521	503	298	Ü	1,305	filia.
11		2.460	1.762	276	Λ	٥	1 120	2 495	773	532	349	. 0	1,114	10,692
12												0		10,79
13											X -			11.84
15	13													
16	14	2.622	1,557	423									- 1	
10		2,507	1,563	366	0	0 -	1,386	2,459	506	582	300	U	U	9,00
10			1 610	102	•	Λ.	1 255	1:220	1 147	518	516	153	1,579	9,44
1													360	9,16
18														
1	18													
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Mean 2,379 1,637 511 0 0 1,385 1,929 1,137 607 431 29 817 10.85	21	2,117	1,693	271	0	0	1,384	1,665	1,420	873	298	0	964	10,68
Triple Cropping of Vegetable 2				511	0	0	1,385	1,929	1,137	607	431	29	817	10,86
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5 3,572 3,607 2,687 2,411 1,620 200 0 0 0 0 1,000 13.0 6 3,540 3,370 2,317 1,717 3,557 917 177 0 0 0 0 1,759 17.2 7 3,544 3,699 3,208 1,573 3,253 139 0 0 0 0 66 2,911 18.3 8 3,504 3,196 3,129 1,744 1,910 414 0	4	3,456	3,557	3,033	2,165	2,021		-						
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7 3,544 3,699 3,208 1,573 3,253 139 0 0 0 0 666 2,911 18.3 8 3,504 3,196 3,129 1,744 1,910 414 0 0 0 0 0 0 0 0 0 13.3 9 3,326 3,699 2,171 2,787 4,710 197 0 0 0 0 0 162 2,782 19.8 10 3,368 3,664 3,214 2,578 4,803 0 0 0 0 0 0 0 2,931 20.3 11 3,352 2,820 2,854 1,535 1,677 0 0 0 0 0 0 2,931 20.3 12 3,612 3,702 2,490 2,837 3,401 504 0 0 0 0 0 2,720 19.3 13 3,589 3,652 3,128 2,707 4,140 0 0 0 0 0 0 758 2,990 20.3 14 3,547 3,672 3,169 3,186 5,281 231 0 0 0 0 687 2,453 22.3 15 3,591 3,691 2,769 2,193 2,727 0 0 0 0 0 0 0 0 1,225 3,032 15.4 17 3,406 3,644 3,031 2,681 2,949 0 0 0 0 0 0 0 1,434 2,522 20.3 18 3,588 3,702 3,190 2,308 3,351 126 0 0 0 0 1,434 2,522 20.3 19 3,561 3,698 3,182 2,772 3,172 0 0 0 0 0 0 0 1,434 2,522 20.3 19 3,561 3,698 3,182 2,772 3,172 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6	3 540	3 370	2 317	1.717	3.557	917	177	0	0	0	0	1,759	17,35
\$ 3,504 3,196 3,129 1,744 1,910 414 0 0 0 0 0 0 162 2,782 19,8 10 3,326 3,699 2,171 2,787 4,710 197 0 0 0 0 0 162 2,782 19,8 10 3,368 3,664 3,214 2,578 4,803 0 0 0 0 0 0 0 2,931 20,5 11 3,552 2,820 2,854 1,535 1,677 0 0 0 0 0 0 24 2,881 15,12 3,612 3,702 2,490 2,837 3,401 504 0 0 0 0 0 0 2,720 19,2 13 3,589 3,652 3,128 2,707 4,140 0 0 0 0 0 0 0 758 2,990 20,3 14 3,547 3,672 3,169 3,186 5,281 231 0 0 0 0 687 2,453 22,3 15 3,591 3,691 2,769 2,193 2,727 0 0 0 0 0 0 0 0 0 1,225 3,032 15,17 3,406 3,644 3,031 2,681 2,949 0 0 0 0 0 0 0 1,434 2,522 20,19 3,561 3,698 3,182 2,772 3,172 0 0 0 0 0 0 1,434 2,522 20,19 3,561 3,698 3,182 2,772 3,172 0 0 0 0 0 0 0 1,434 2,522 20,19 3,360 3,607 3,214 2,164 3,982 0 0 0 0 0 0 0 0 0 0,1000 17,21 3,372 3,658 2,936 3,173 2,313 917 0 0 0 0 0 0 2,782 19,21 3,372 3,658 2,936 3,173 2,313 917 0 0 0 0 0 0 0,2782 19,21 3,372 3,658 2,936 3,173 2,313 917 0 0 0 0 0 0 2,782 19,21 3,372 3,658 2,936 3,173 2,313 917 0 0 0 0 0 0 2,782 19,21 3,372 3,658 2,936 3,173 2,313 917 0 0 0 0 0 0 0,2782 19,21 3,372 3,658 2,936 3,173 2,313 917 0 0 0 0 0 0 2,782 19,21 3,372 3,658 2,936 3,173 2,313 917 0 0 0 0 0 0 2,782 19,21 3,372 3,658 2,936 3,173 2,313 917 0 0 0 0 0 0 0 2,782 19,21 3,372 3,658 2,936 3,173 2,313 917 0 0 0 0 0 0 0 2,782 19,21 3,372 3,658 2,936 3,173 2,313 917 0 0 0 0 0 0 0 2,782 19,21 3,372 3,658 2,936 3,173 2,313 917 0 0 0 0 0 0 0 2,782 19,21 3,372 3,658 2,936 3,173 2,313 917 0 0 0 0 0 0 0 2,782 19,21 3,372 3,658 2,936 3,173 2,313 917 0 0 0 0 0 0 0 2,782 19,21 3,372 3,658 2,936 3,173 2,313 917 0 0 0 0 0 0 0 2,782 19,21 3,372 3,658 2,936 3,173 2,313 917 0 0 0 0 0 0 0 2,782 19,21 3,372 3,658 2,936 3,173 2,313 917 0 0 0 0 0 0 0 2,782 19,21 3,372 3,658 2,936 3,173 2,313 917 0 0 0 0 0 0 0 2,782 19,21 3,372 3,658 2,936 3,173 2,313 917 0 0 0 0 0 0 0 2,782 19,21 3,372 3,658 2,936 3,173 2,313 917 0 0 0 0 0 0 0 0 2,782 19,21 3,372 3,658 2,936 3,173 2,313 917 0 0 0 0 0 0 0 0 2,782 19,21 3,372 3,658 2,936 3,173 2,313 917 0 0 0 0 0 0 0 0 2,782 19,21 3,21 3,21 3,21 3,21 3,21 3,21 3,21 3									.0.1	0	0	66	2,911	18,39
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11 3,352 3,702 2,490 2,837 3,401 504 0 0 0 0 0 2,720 19, 13 3,589 3,652 3,128 2,707 4,140 0 0 0 0 0 0 758 2,990 20, 14 3,547 3,672 3,169 3,186 5,281 231 0 0 0 0 687 2,453 22, 15 3,591 3,691 2,769 2,193 2,727 0 0 0 0 0 0 0 687 2,453 22, 15 3,591 3,691 2,769 2,193 2,727 0 0 0 0 0 0 0 0 1,225 3,032 15, 17 3,406 3,644 3,031 2,681 2,949 0 0 0 0 0 0 1,847 17, 18 3,588 3,702 3,190 2,308 3,351 126 0 0 0 0 0,1,434 2,522 20, 19 3,561 3,698 3,182 2,772 3,172 0 0 0 0 0 0 0,1,434 2,522 20, 19 3,561 3,698 3,182 2,772 3,172 0 0 0 0 0 0 0,1,000 17, 19 3,561 3,698 3,182 2,772 3,172 0 0 0 0 0 0 0,1,000 17, 19 3,561 3,698 3,182 2,772 3,172 0 0 0 0 0 0 0,1,000 17, 19 3,561 3,698 3,182 2,772 3,172 0 0 0 0 0 0 0,1,000 17, 19 3,561 3,698 3,182 2,772 3,172 0 0 0 0 0 0 0,1,000 17, 19 3,561 3,698 3,182 2,772 3,172 0 0 0 0 0 0 0,1,000 17, 19 3,561 3,698 3,182 2,772 3,172 0 0 0 0 0 0 0 0,1,000 17, 19 3,561 3,698 3,182 2,772 3,172 0 0 0 0 0 0 0 0,1,000 17, 19 3,561 3,698 3,182 2,772 3,172 0 0 0 0 0 0 0 0,1,000 17, 19 3,561 3,698 3,182 2,772 3,172 0 0 0 0 0 0 0 0,1,000 17, 19 3,561 3,698 3,182 2,772 3,172 0 0 0 0 0 0 0 0 0,1,000 17, 19 3,561 3,698 3,182 2,772 3,172 0 0 0 0 0 0 0 0 0,1,000 17, 19 3,561 3,698 3,182 2,772 3,172 0 0 0 0 0 0 0 0 0,1,000 17, 19 3,561 3,698 3,182 2,772 3,172 0 0 0 0 0 0 0 0 0,1,000 17, 19 3,561 3,698 3,182 2,772 3,172 0 0 0 0 0 0 0 0 0 0,1,000 17, 19 3,561 3,698 3,182 2,772 3,173 2,313 917 0 0 0 0 0 0 0 0 0,2,782 19, 19 3,561 3,698 3,182 2,772 3,173 2,313 917 0 0 0 0 0 0 0 0 0,2,782 19, 19 3,561 3,698 3,182 2,772 3,173 2,313 917 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	10	3,368	3,664	3,214	2,578	4,803	V	v	. 0	U	U			
12	11	3,352	2,820	2.854	1,535	1,677	0	0	0:	0	0		2,881	15,14
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16		3,389									1.5			22,22
16														14,97
16 2,767 3,584 2,814 703 1,031 2,681 2,949 0 0 0 0 0 0 0 1,847 17, 18 3,588 3,702 3,190 2,308 3,351 126 0 0 0 0 1,434 2,522 20, 19 3,561 3,698 3,182 2,772 3,172 0 0 0 0 0 0 2,203 18, 20 3,360 3,607 3,214 2,164 3,982 0 0 0 0 0 0 0,1,000 17, 21 3,372 3,658 2,936 3,173 2,313 917 0 0 0 0 0 2,782 19,	15	3,591	3,691	2,769	2,193	2,121	U	G.	. U .	U	ν,			6 97
17	16	2.767	3.584	2.814	908	1,637	0	. 0	. 0					15,96
18								. 0	. 0	0		Contract of the		17,55
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21 3,372 3,658 2,936 3,173 2,313 917 0 0 0 0 0 2,782 19,														17,32
21 5,512 5,056 2,750 5,175 2,515											er en en en en en en en en en en en en en	- 1 to 1		4 5 4
Mean 3,446 3,566 2,905 2,312 3,122 233 9 0 0 0 238 2,162 17,	21	3,372	3,658	2,936	3,173	2,313		 						- 11
	Mean	3,446	3,566	2,905	2,312	3,122	233	9	0	0	0	238	2,162	17,99

Table F-132 IRRIGATION DIVERSION REQUIREMENT FOR CROPPING PATTERNS OF SUGARCANE

												Uni	t : m³/ha
Year in Order	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1									0	0	23	853	
2	2,757	3,415	3,679	4,414	4,254	1.035	0	0	ō	0	46	1,196	20,796
3	2,792	3,403	4,490	4,731	3,053	1,283	0	0	0	0	93	1,746	21,591
· 4	2,936	3,415	4,439	4,414	2,675	1.098	0	0	0	0	48	1,528	20,553
5	2,789	3,475	4.395	4,450	2,278	326	0	. 0	0	0	0	560	18,273
-√ 6	2,235	2,963	3,567	2,956	4,052	2,801	639	. 0	0	0	0	866	20,079
7	2,541	3,300	4.484	3,728	4,219	1.695	167	0	0	0	46	1,751	21,931
*: 8	2,972	3,268	4,294	4,202	2,573	1,144	- 29	0	0	. 0	0	12	18,494
. 9	1,773	2,843	3.732	3,890	4,845	1,703	0	0	0	0	58	1,749	20,593
10	2,621	3,429	4,528	4,520	5,367	855	0	0	0	0	14	1,712	23,046
H	2,778	3,117	3,560	2,933	2,627	87	0	. 0	0	0	28	1,739	16,869
12	2,971	:3,599	4,157	4,605	4,339	1.974	. 0	. 0	0	0	0	1,560	23,205
13	2,898	3,533	4,516	4,666	4,512	1,522	189	0	0	0	217	2,193	24,246
14	3,207	3,712	4,702	5,295	6,165	913	. 0	0	0	0	254	1,705	25,953
15	2,868	3,547	4,283	4,522	3.370	662	. 0	0	0	0	0	0	19,252
16	1,422	2,654	· 3,533	2,914	-1,951	10	0	0	0	. 0	500	2,369	15,353
. 17	3,269	3,695	4,546	4,670	2,676	20	: 0	0	0	0	. 0	1,127	20,003
18	2,745	3,416	4,523	4,412	4.289	1,163	128	0	0	0	846	1,814	23,336
19	3,157	3,695	4,690	4,951	4,015	315	0	. 0	0	0	0	1.265	22.088
20	2,700	3,475	4,528	3,118	4,674	980	64	0	0	0	0	560	20,099
21	2,356	3,481	3,847	5,269	2,515	1,161	0	0	0	. 0	0	1,749	20,378
Mean	2,689	3,372	4,225	4,233	3,722	1,037	61	0	0	0	108	1,360	20,807

Table F-133 MONTHLY IRRIGATION DIVERSION REQUIREMENT FOR ARIS AREA

												Un	it : m³/h
Year in Order	Jan.	Feb.	Mar.	Apr.	May	June .	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1									483	240	1,142	1,905	
2	4,188	3,365	1,929	809	399	1,530	1,248	734	470	240	1,108	2,224	18,242
2	4,039	3,348	2,424	888	283	1,546	1,169	701	656	624	1,105	2,416	19,200
4	4,147	3,365	2,349	809	242	1,581	1,652		571	582	.,	2,219	19,318
5	4,110	3,494	2,244	836	202	1,457	1,428	812	876	690	787	1,839	18,773
6	3,856	3,280	1,823	573	385	1,893	2,401	1,276	548	281	942	2,234	19,492
7	4,189	3,524	2,350	604	420	1,755	2,136	1,383	1,182	380	1,063		21,419
8	4,186	3,117	2,293	700	291	1,700 :	2,111	1,292	376	. 601	760		19,089
9	3,646	3,466	1,948	719	536	1,498	1,607	1,415	458	613	1,072	2,484	19,463
10	4,053	3,464	2,340	772	577	1,222	973	1,391	465	196	1,104	2,699	19,255
11	4,096	3,042	1,836	425	297	1,431	1,957	730	451	405	1,081	2,616	18,367
12	4,305	3,538	1,894	784	468	1,722	1,113	1,260	470	194	1,069	2,594	19,412
13	4,332	3,509	2,177	761	499	1,807	1,391	1,064	613	495	1,182	2,833	20,663
14	4,329	3,504	2,264	872	651	725	843	1,236	336	604	1,188	2,451	19,00
15	4,228	3,495	1,979	717	373	1,516	1,828	546	513	285	916	1,362	17,757
.16	3,420	3,304	1,874	464	260	1,150	950	1,086	477	589	1,290	3,002	17,867
17	4,289	3,428	2,108	712	321	1,460	1,374	855	532	560	1,024	2,120	18,782
18	4,328	3,462	2,154	673	531	1,796	1.542	765	487	647	1,417	2,725	20,528
. 19	4,331	3,441	2,138	750	492	1,552	1,342		501	224	1,085	2,328	19,474
20	4,075	3,494	2,340	588	489	1,230	1,442		663	227	1,085	1,839	18,765
21,-	3,959	3,487	2,091	868	298	1,640	1,257	1,314	483	240	1,142	1,905	18,684
22	4,188	3,365	1,929	809	399		1.248	734	470	240	1,108	2,224	18,242
23	4,039	3,348	2,424	888	283	1.546	1.169		656	624	1,105	2,416	19,200
23	4,147	3,365	2,349	809	242	1.581	1,652		571	582	1,079	2,219	19,318
25 25	4,110	3,494	2,244	836	202	1,457	1,428		876	690	787	1,839	18,773
37	3.057	3,280	1,823	573	385	1,893	2,401	1,276	548	281	942	2,234	19,492
26	3,856			604	420	1,755	2,136		1,182	380	1,063	2,434	21,419
27	4,189	3,524	2,350	700	291	1,700	2,130	1,292	376	601	760	1,662	19,089
28	4,186	3,117	2,293	700 719	536	1,700	1,607	1,415	458	613	1,072	2,484	19,46
29	3,646	3,466	1,948 2,340	719	577	1,222	973		465	196.	1,104	2,699	19,25
30	4,053	3,464	2,340					,	. 402	170	,,,,,,	_,,	
31	4,096	3,042	1,836	425	297	1,431	1,957	730		<u> </u>			1 14.
Average	4,087	3,386	2,136	715	388	1,527	1,548	1,054	577	444	1,052	2,283	19,19

Table F-134 MONTHLY IRRIGATION DIVERSION REQUIREMENT FOR ARIS EXTENSION AREA

Year in	Jan.	Feb.	Mar.	Apr.	Man	June	1	A	· Cant	Oot	Non	Dag	Total
Order	Jan.		wat.	Apr.	wity	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	TOtal
1			:						472	230	850	1,594	
2	3,933	3,317	1,888	765	271	1,571	1,400	767	466	230	825	1,938	17,371
3	3,745	3,302	2,451	849	191	1,554	1,245	727	680	655	824	2,101	18,325
4	3,862	3.317	2,360	765	162	1,602	. 1,767	739	585	606	803	1,897	18,464
5	3,830	3,452	2,232	794	134	1,491	1,493	841	900	712	586	1,464	17,929
6	3,591	3,242	1,789	536	264	1,869	2,527	1,316	568	291	702	888,1	18,587
7	3,949	3,467	2,322	550	. 311	1,765	2,275	1,414	1.208	383	792	2,125	20,558
8	3,917	3,035	2,283	638	259	1,721	2,233	1,309	392	612	566	1,238	18,203
9	3,355	3,427	1,916	663	445	1,497	1,707	1,431	465	619	800	2,198	18,522
10	3,779	3,393	2,312	695	467	1,247	1,068	1,371	469	197	825	2,441	18,263
Н	3,831	2.958	1,783	351	255	1,535	2,089	728	. 447	390	811	2,346	17,523
12	4,028	3.459	1,818	696	385	1,768	1,212	1,235	466	188	797	2,332	18,384
. 13	4,081	3.415	2,086	668	413	1,879	1,484	1,049	627	476	908	2,580	19,66
14	4,054	3,401	2,183	756	518	770	937	1.217	335	584	920	2,178	17,852
15	3,971	3,399	1,888	619	322	1,596	1,978	510	516	272	683	1,014	16,768
16	3,083	3,228	1,809	396	261	1,265	1,000	1,065	473	562	1,022	2,769	16,93
17	4,005	3,296	2,010	594	282	1,555	1,485	819	531	521	763	1,808	17,669
18	4,071	3,337	2,036	566	500	1,900	1.680	- 763	484	596	1,168	2,474	19,57.
19	4,069	3,297	1,992	625	461	1,632	1,492	1,322	475	207	-811	2,067	18,45
20	3,805	3.452	2,312	545	385	1,283	1,586	1,301	672	213	- 811	1,464	17,82
21	3,682	3,404	2,017	753	262	1,699	1,411	472	230	850	1,594	2,198	18,57
22	3,933	3,317	1,888	765	271	1,571	1,400	767	466	230	825	1,938	17,37
23	3,745	3.302	2,451	849	191	1,554	1,245	727	680	655	824	2,101	18,32
24	3.862	: 3,317	2,360	765	162	1,602	1,767	739	: 585	606	803	1,897	18,46
25	3,830	3.452	2,232	794	134	1,491	1,493	841	900	712	586	1,464	17,92
26	3,591	3,242	1,789	538	264	1,869	2,527	1,316	568	291	702	1,888	18,58
27	3,949	3,467	2.322	550	311	1,765	2,275	1.414	1,208	. 383	792	2,125	20,55
28	3,917	3,035	2,283	638	259	1,721	2,233	1,309	392	612	566	1,238	18,20
29	3,355	3,427	1,916	663	445	1,497	1,707	1,431	465	619	800	2,198	18,52
30	3,779	3,393	2,312	695	467	1,247	1,068	1,371	469	197	825	2,441	18,26
31	3,831	2,958	1,783	351	255	1,535	2,089	728					
Аусгаде	3,814	3,317	2,094	648	310	1,568	1,662	1,035	577	464	818	1,993	18,30

Table F-135 MONTHLY IRRIGATION DIVERSION REQUIREMENT FOR ADRIS AREA

Unit: m³/ha

								* .				
Year in Order	Jan.	Feb.	. Mar.	Apr.	May June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
								452	254	608	1,249	
i 2	3,415	3,034	1,804	798	271 1,418	1,317	693	440	254	591	1,544	15,578
3	3,242	3,022	2,373	880	191 1,410	1.200	662	605	652	591	1,733	16,562
4	3,347	3,034	2,287	798	162 1,447	1.663	680	524	608	575	1,540	16,664
5	3,314	3,160	2,168	829	134 1,355	1,411	771	824	706	419	1,103	16,193
6	3,119	2,965	1,725	572	264 1,692	2.373	1,226	522	310	501	1,500	16,76
ž	3.427	3,168	2,237	554	301 1,604	2,137	1,327	1,121	398	566	1,743	18,58
8	3,402	2,770	2,186	651	232 1,556	2,116	1,231	346	619	404	884	16,39
9	2.833	3,133	1,837	679	413 1,390	1,603	1,316	427	627	573	1,799	16,62
10	3,288	3,100	2,226	715	437 1,129	1,023	1,276	435	214	598	2,032	16,47
.111	3,333	2,705	1,714	366	234 1,363	1.967	660	425	409	588	1,936	15,69
12	3,511	3,166	1,765	721	358 1,588	1.143	1,144	440	208	572	1,931	16,54
13	3,550	3,118	1,985	674	384 1,681	1.428	985	605	499	673	2,159	17,74
14	3,534	3,106	2,069	769	487 691	854	1,129	320	'601	683	1,782	16,02
15	3,453	3,106	1,795	631	293 1,427	1,881	463	484	299	491	724	15,04
16	2,548	2,955	1,713	408	227 1,152	936	990	445	589	779	2,331	15,07
17	3,490	3,014	1,910	610	258 1,382	1,413	757	502	548	545	1,420	15,84
18	3,555	3,054	1,950	583	443 1,685	1.589	733	461	625	911	2,042	17,63
19	3,544	3,001	1,878	622	409 1,455	1.389	1,199	469	231	586	1,668	16,45
20	3,311	3,160	2,226	577	364 1,168	1,489	1,200	603	238	586	1,103	16,02
21	3,168	3,109	1,916	767	239 1,510	1,328	452	254	608	1,249	1,799	16,39
22	3,415	3,034	1,804	798	271 1,418	1,317	693	440	254	591	1,544	15,57
23	3.242	3,022	2,373	880	191 1,410	1,200	652	605	652	591	1,733	16,56
24	3,347	3,034	2,287	798	162 1.447	1,663	680	524	608	575	1,540	16,66
25	3,314	3,160	2,168	829	134 1,355	1,411	771	824	706	419	1,103	16,19
26	3,119	2,965	1,725	572	264 1,692	2,373	1,226	522	310	501	1,500	16,76
27	3,427	3,168	2,237	554	301 1,604	2,137	1,327	1,121	398	566	1,743	18,58
28	3,402	2,770	2,186	651	232 1,556	2,116	1,231	346	619	404	884	16,39
29	2,833	3,133	1,837	679	413 1,390	1.603	1,316	427	627	573	1,799	16,62
30	3,288	3,100	2,226	715	437 1,129	1.023	1,276	435	214	598	2,032	16,47
31	3,333	2,705	1,714	366	234 1,363	1.967	660			10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
Average	3,303	3,032	2,011	668	291 1,416	1,569	958	534	470	597	1,609	16,45

Table F-136 MONTHLY IRRIGATION DIVERSION REQUIREMENT FOR LARIS AREA

								· .				Uni	t:m³/ha
Year in Order	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
									497	168	874	1,592	
2	3,919	3,324	1,898	746	229	1,543	1,386	752	483	268	848	1,913	17,310
3	3,740	3,304	2,464	824	161	1,537	1,271	727	672	686	846	2,098	18,331
4	3,852	3,324	2,381	746	135	1,581	1,778	747	583	643	826	1,895	18,491
5	3,819	3,460	2,259	776	111	1,488	1,518	845	907	754	603	1,477	18,017
6	3,605	3,255	1,810	536	223	1,827	2,540	1,334	571	321	722	1,894	18,636
7	3,933	3,479	2,339	513	258	1,741	2,287	1,446	1,230	421	814	2,113	20,575
> : 8	3,905	3,046	2,288	604	207	1,701	2,265	1,343	384	658	582	1,273	18,257
9	3,340	3,444	1,928	635	365	1,492	1,721	1,453	471	668	821	2,172	18,510
. 10	3,783	3,405	2,327	665	384	1,230	1,077	1,415	479	222	853	2,415	18,254
11	3,828	2,981	1,806	334	207	1,492	2,105	737	465	439	837	2,318	17,549
12	4.027	3,480	1,849	670	314	1,712	1,214	1,274	483	218	821	2,310	18,372
13	4.067	3,434	2,093	624	339	1,821	1,510	1,088	652	538	928	2,543	19,639
14	4.046	3,420	2,180	713	426	735	914	1,254	349	650	937	2,149	17,772
15	3.960	3,420	1,891	582	259	1,555	1,997	530	531	317	704	1,043	16,790
16	3,071	3,264	1,814	376	207	1,238	1,010	1.101	490	635	1,036	2,722	16,965
17	4.002	3,331	2,017	560	231	1,519	1,499	. 851	551	599	784	1,789	17,735
18	4.076	3,379	2,062	535	400	1,830	1,683	798	505	686	1,167	2,431	19,553
19	4.057	3,323	1,996	572	369	1,598	1,474	1,328	515	247	837	2,036	18.350
20	3.806	3,460	2,327	540	317	1,256	1,579	1,329	669	252	837	1,477	17,848
21	3,676	3,420	2,030	711	214	1.648	1,397	1,335	881	222	576	2,172	18,282
22	3.919	3,324	1,898	746	229	1,543	1,386	752	483	268	848	1,913	17,310
23	3.740	3,304	2,464	824	161	1,537	1,271	727	672	686	846	2,098	18,331
24	3,852	3,324	2,381	746	135	1,581	1,778	747	583	643	826	1,895	18,491
-25	3,819	3,460	2,259	776	111	1,488	1,518	845	907	754	603	1,477	18,017
26	3,605	3,255	018,1	536	223	1,827	2,540	1,334	571	321	722	1,894	18,636
27	3,933	3,479	2,339	513	258	1,741	2,287	1,446	1,230	421	814	2,113	20.575
28	3,905	3,046	2,288	604	207	1,701	2,265	1,343	384	658	582	1,273	18,257
29	3,340	3,444	1,928	635	365	1,492	1,721	1,453	471	668	821	2,172	18,510
.30	3,783	3,405	2,327	665	384	1,230	1,077	1,415	479	222	853	2,415	18,254
31	3,828	2,981	1,806	334	207	1,492	2,105	737					·
Average	3,808	. 3,333	2,109	621	254	1,539	1,673	1,083	609	486	803	1,982	18,300

Table F-137 MONTHLY SOLUBLE COPPER CONCENTRATION OF RELEASED WATER FROM PROPOSED SAN ROQUE DAM UNDER THE CASE OF RUN 1

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~			г.	г.

Year						Maria II.	11.5		1.17 T		. 4	e e i Securi
in Order	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1					* 1	1111			5.4	4.4	3.3	2.6
2	2.5	2.4	2.8	3.5	4.6	5.4	6.9	6.9	5.3	4.4	3.3	2.6
3	2.5	2.4	2.8	3.5	4.7	5.4	6.9	7.0	5.3	4.4	3.3	2.6
4	2.5	2.4	2.8	3.6	- 4.7	5.5	7.0	7.0	5.3	4.5	3,4	2.6
5	2.5	2.4	2.8	3.6	4.7	5.5	7.0	. 7.0	5.3	4.5	3.4	2,7
•			45		. ,		4	+ - +		10.24		3 4 2 2 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
6	2.5	2.4	2.8	3.6	4.8	5.6	7.1	7.1	5.4	4.5	3.4	2.7
7	2.5	2.4	2.9	3.6	4.8	5.6	7.1	7.1	5.4	4.5	3.4	2.7
- 8	2.5	2.5	2.9	3.7	4.8	5.6	7.1	7.1	5.4	4.5	3.4	2.7
9	2.5	2.5	2.9	3.7	4.9	5.7	7.2	7.1	5.4	4.5	3.4	2.7
10	2.5	2.5	2.9	3.7	4.9	5.7	7.2	7.2	5.4	4.5	3.4	2.7
11	2.5	2.5	2.9	-3.8	4.9	5.7	7.2	7.2	5.5	4.5	3.4	2.7
12	2.6	2.5	29	3.8	5.0	5.8	7.3	7.2	5.5	4.6	3.4	2.7
13	2.6	2.5	3.0	3.8	5.0	5.8	7.3	7.2	5.5	4.6	3.4	2.7
14	2.6	2.5	3.0	3.9	5.0	5.9	7.4	7.3	5.5	4.6	3.5	2.7
. 15	2.6	2.5	3.0	3.9	5.1	5.9	7.4	7.3	5.5	4.6	3.5	2.7
										27 - 17		A Marian
16	2.6	2.5	3.0	3.9	5.1	5.9	7.4	7.3	5.5	4.6	3.5	2.7
17	2.6	2.5	3.0	3.9	5.2	6.0	7.5	7.3	5.6	4.6	3.5	2.7
18	2.6	2.5	3.0	4.0	5.2	6.0	7.5	7.4	5.6	4.6	3.5	2.7
19	2.6	2.5	3.1	4.0	5.2	6.1	7.6	7.4	5.6	4.7	3.5	2.8
20	2.6	2.6	3.1	4.0	5.3	6.1	7.6	7.4	5.6	4.7	3.5	2.8
21	2.6	2.6	3.1	4.1	5.3	6.2	7.6	7.4	5.6	4.7	3.5	2.8
22	2.6	2.6	3.1	4.1	5.4	6.2	7.7	7.5	5.7	4.7	3,5	2.8
23	2.6	2.6	3.2	4.2	5.4	6.3	7.7	7.5	5.7	4.7	3.5	2.8
24	2.6	2.6	3.2	4.2	5.5	6.3	7.8	7.5	5.7	4.7	3.6	2.8
25	2.7	2.6	3.2	4.2	5.5	6.4	7.8	7.5	5.7	4.8	3.6	2.8
											21 C	
26	2.7	2.6	3.2	4.3	5.6	6.4	7.9	7.6	5.7	4.8	3.6	2.8
27	2.7	2.6	3.3	4.3	5.7	6.5	8.0	7.6	5.8	4.8	3.6	2.8
28	2.7	2.6	3.3	4.4	- 5.7	6.6	8.0	7.6	5.8	4.8	3.6	2.8
29	2.7	2.7	3.3	4.4	5.8	6.6	8.1	7.7	5.8	4.8	**	2.8
30	2.7	2.7	3.4	4.5	5.8	6.7	8.1	7.7	5.8	4.8	3.6	2.9
31	2.7	2.7	3.4	4.6	5.9	6.8	8.2	7.7				

Table F-138 SUSPENDED SOLID CONCENTRATION OF RELEASED WATER FROM PROPOSED SAN ROQUE DAM UNDER THE CASE OF RUN 1

ct.	Nov.	Dec.			
19	888	787			
19	889	787			
19	889	788			
20	890	788			
20	890	788			
20	890	789			
20	891	789			
21	891	790			
521	892	790			
521	892	791			
521	892	791			
522	893	792			

Unit: mg/L

	Year in Order	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
	1	4 4								391	519	888	787
, -	2	-551	475	558	2,245	1,222	1,192	1,326	1,300	352	519	889	787
	3	552	476	562	2.249	1,224	1.193	1,328	1,286	352	519	889	788
	4	552	476	566	2,259	1,226	1.195	1,330	1,273	352	520	890	788
	5	552	476	570	2,258	1,228	1,196	1,332	1,261	352	520	890	788
				.= : =.	_,			,					
	6	553	476	574	2,263	1,230	1,198	1,334	1,248	353	520	890	789
	7	553	477	578	2,266	1,232	1,200	1,336	1,236	353	520	891	789
	8	553	477	582	2,269	1,234	1,201	1,338	1,225	353	521	891	790
	9	554	477	586	2,272	1,236	1,203	1,340	1,213	353	521	892	790
	10	554	477	590	2,275	1,238	1,205	1,342	1,202	353	521	892	791
	10	334	• • • • • • • • • • • • • • • • • • • •	0.70	2,2.0	.,,_,,			·				
	11	554	478	595	2.278	1,240	1,206	1,344	1,191	353	521	892	791
	12	555	478	599	2,281	1,242	1,208	1,346	1,180	354	522	893	792
	13	555	478	604	2,284	1,244	1,210	1,349	1,170	354	522	893	792
	14	555	479	608	2,287	1,246	1,212	1,351	1,159	354	522	894	793
	15	556	479	613	2,291	1,249	1,214	1,353	1,149	354	522	894	793
	1,0	330	417	015	2,271	,,_,,	-,		·				
14	16	556	479	617	2,294	1,251	1,215	1,355	1,139	355	523	895	794
	17	557	479	622	2,297	1,253	1,217	1,358	1,130	355	523	895	794
	18	557	480	627	2,301	1,255	1,219	1,360	1,120	355	523	895	794
1,5	19	557 557	480	632	2,304	1,258	1,221	1,362	1,111	355	523	896	795
100	20	558	480	637	2,308	1,260	1,223	1,365	1,102	355	524	896	795
	20	330	400	037	1,500	,,,,,,,	**	-,	•				
	21	558	480	642	2,311	1,262	1,393	1,559	1,248	400	594	1,026	796
	22	558	480	648	2,316	1,265	1,395	1.562	1,236	401	594	1,027	797
	23	559	481	654	2,320	1,268	1,398	1,565	1,225	401	594	1,027	797
	23 24	559	481	660	2,324	1,271	1,400	1,568	1,213	401	594	1,028	798
	2 4 25	560	481	667	2,329	1,274	1,403	1,571	1,202	401	595	1,028	798
	23	300	401	(107	1,51,5	.,2, ,	.,	·					
	24	560	481	673	2,333	1,277	1,406	1,574	1,192	402	595	1,029	799
	26	561	481	680	2,338	1,280	1,408	1.577	1,181	402	595	1,029	799
	27	561	482	687	2,343	1,283	1,411	1,580	1,171	402	596	1,030	800
. * .	28		482	694	2,348	1,287	1,414	1,584	1,161	402	596	1,030	801
	29	561	482	701	2,353	1,290	1,417	1,587	1,151	403	596	1,031	801
	30	562	482	701	دددیم	1,270	.,						
	31	562	482	708	2,358	1,293	1,419	1,590	1,142				

Table F-139 TOTAL COPPER CONCENTRATION OF SUSPENDED SOLID CONTAINED IN RELEASED WATER FROM PROPOSED SAN ROQUE DAM UNDER THE CASE OF RUN 1

						•				<u> </u>	Unit	: ppm
Year in Order	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1									467	461	447	579
2	597	614	617	576	592	469	453	441	483	467	450	582
3	601	618	620	577	593	470	453	442	484	467	450	582
4	601	618	620	577	593	470	453	442	483	467	451	582
5	601	618	620	577	593	: 470	453	442	483	467	451	582
	301	0.0	. 040				9					
6	109	618	620	- 577	593	470	454	443	483	467	451	- 582
7	601	618	620	577	593	470	454	443	483	467	451	582
8	601	619	619	577	593	470	454	443	483	467	45 i	582
. 6	601	619	619	577	593	471	454	444	483	467	451	- 582
10	601	619	619	577	593	.471	454	444	483	467	451	582
10	001	017	017	<i>-</i>								
	601	619	619	577	594	471	454	444 '	482	467	451	582
11		619	618	577	594	471	454	444	482	467	451	582
12	601	- 619	618	577	594	471	454	445	482	467	451	582
13		619	- 618	577	594	471	454	445	482	467	451	582
14	601		618	577	594	472	454	445	482	467	451	582
15	601	619	GIO		37.4			: ' ' ' '				
.,	(0)	(10	617	578	594	472	454	446	482	467	451	582
16	601	619	617	578	594	472	454	446	482	467	451	582
17	601	619.		578	594	472	454	446	481	467	451	582
18	601	619	617	578	594	472	454	446	481	467	451	582
19	601	620	617	578	594	472	454	447	481	467	451	582
20	601	620	616	376	394	416				11.77	100	
		400		670	594	424	407	. 400	435	420	403	582
21	601	620	616	578	594	424	407	400	435	420	403	582
22	601	620	616	578	594	424	407	401	435	420	403	582
23	- 601	620	615	578	594	424	407	401	434	420	403	582
24	601	620	615	578	594 594	425	407	401	434	420	403	582
25	601	620	615	578	394	42.3	407				177	
			. 1.6	:670	504	425	407	402	434	420	403	582
26	601	620	615	578	594 504	425	408	402	434	419	403	582
27	601	620	614	578	594			402	434	419	403	582
28	601	621	614	578	595	425	408	403	434	419	403	582
29	601	621	614	578	595	426	408	403	434	419	403	582
30.	: 601	621	613	579	595	426	408	403	454	417	705	504
31	601	621	613	579	595	426	408	403				

Table F-140 SOLUBLE COPPER CONCENTRATION OF SUSPENDED SOLID CONTAINED IN RELEASED WATER FROM PROPOSED SAN ROQUE DAM UNDER THE CASE OF RUN 1

Unit	:	ppm	
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		·											t . ppm
Year in Order		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	• • • • • • • • • • • • • • • • • • • •									123	120	114	155
2		172	189	193	151	168	132	118	109	138	126	117	158
3		176	193	196	152	169	133	118	109	138	126	117	158
4	. "	176	194	196	152	169	133	118	109	138	126	117	158
5		176	194	195	152	169	133	118	109	138	126	117	158
6		176	194	195	152	169	133	118	109	- 138	126	117	158
7		176	194	195	152	169	133	118	109	137	126	116	158
8		176	194	195	152	169	133	118	109	137	126	116	158
9		176	194	194	152	169	133	118	109	-137	126	116	158
10	•	176	194	194	152	169	133	118	110	137	126	116	158
11		176	194	194	152	169	133	117	110	137	126	116	158
12	1	176	194	194	152	169	133	117	110	137	126	116	158
13		176	194	193	152	169	133	117	110	136	126	116	158
14	4. 11	176	194	193	152	169	133	117	110	136	125	116	158
15	5 + 4	176	194	193	153	169	133	117	110	136	125	116	158
16		177	195	193	153	169	133	117	110	136	125	116	158
17	100	177	195	192	153	169	133	117	110	136	125	116	158
18		177	195	192	153	169	133	117	110	135	125	116	158
19	100	177	195	192	153	169	133	117.	110	135	125	116	157
20		177	195	192	153	170	133	117	110	135	125	116	157
21		177	195	191	153	170	117	102	97	120	110	102	157
22		177	195	191	153	170	117	102	97	119	110	101	157
23	100	177	195	191	153	170	117	102	97	119	110	101	157
24		177	195	191	153	170	117	102	97	119	110	101	15
25		177	196	190	153	170	117	102	97	119	110	101	157
26		177	196	190	153	170	317	102	97	119	110	101	15
27		177	196	190	153	170	117	102	97	118	110	101	15
28		177	- 196	189	154	170	117	102	97	118	109	101	15
20 29		177	196	189	154	170	117	102	98	118	109	101	15
30		177	196	189	154	170	117	102	98	118	109	101	15
31		177	196	189	154	170	117	102	98				

Table F-141 WATER SOLUBLE COPPER CONCENTRATION OF RELEASED WATER FROM PROPOSED SAN ROQUE DAM UNDER THE CASE OF RUN 4

Unit : ppb

Year in Order		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1								24.0	21.0	17.9	17.0	18.7	20.0
2		21.1	21.9	22.7	23.9	25.4	26.5	18.9	12.7	15.3	12.8	15.7	16.9
3		17.9	18.7	19.9	21.4	23.8	25.6	24.1	14.2	13.6	16.4	18.0	19.1
4	•	19.9	20.3	21.9	23.4	25.0	26.3	27.2	19.1	18.0	17.8	19.4	20.3
5		21.1	21.9	22.9	24.2	25.4	20.4	16.1	12.2	13.9	15.4	16.6	18.3
6		19.3	20.1	21.1	22.8	24.2	25.5	26.6	20.8	17.7	18.2	17.9	19.6
7		20.4	21.2	22.0	23.4	24.7	25.8	26.9	27.0	24.8	25.8	26.5	27.2
8		28,1	28.8	29.6	30.1	30,3	30,6	30.3	29.2	21,3	22.9	24.1	25.0
. 9		25.6	26.3	27.3	28.0	28.6	28.8	28.7	25.6	18.8	19.1	20.8	22.0
10		22.9	23.5	24.4	25.4	26.5	27.4	27.9	28.2	28.4	28.7	29.3	29.8
11		30.1	30.5	31.0	31.3	31.2	30.1	28.9	12.7	15.7	18.1	19.0	19.7
12		20.8	22.0	23.8	25.3	26.5	27.4	19.8	19.1	18.0	19.0	20.2	.21.3
13		22.1	22.9	24.3	25.8	26.9	27.7	18.9	17.1	14.6	16.4	17.9	19.4
14		20.8	21.9	23.2	24.8	26.1	20.0	20.5	19.8	14.2	16.5	17.8	18.7
15		19.6	20.7	22.3	24.1	25.5	26.7	27.5	10.0	12.7	12.0	14.5	16.6
16		17.4	18.1	19.5	21.1	22.5	24.5	16.9	16.2	16.9	17.8	18.8	19.6
17		20.3	21.2	22.7	24.1	15.2	15.0	15.3	14.9	13.3	16.3	0.81	19.7
18		20.6	21.4	22.4	24.0	25.4	26.6	24.0	10.0	8.2	9.2	12.1	14.6
19		15.8	17.2	19.6	21.3	23.9	25.9	16.5	14.0	11.2	13.1	15.4	16.4
20		18.9	20.9	22.5	23.9	25.2	25.9	19.4	15.3	13.6	12.5	15.6	16.7
21		18.2	19.6	21.3	23.6	25.9	25.2	22.7	23.3	22.1	22.0	15.1	17.7
22		18.9	19.8	21.0	22.8	24.4	25.9	24.8	22.0	18.5	17.4	19.2	20.6
23		21.8	22.6	23.5	25.2	26.6	27.6	18.4	12.2	15.5	12.8	15.4	16.8
24		18.0	19.0	20.6	22.5	25.1	26.7	24.4	13.7	13.4	16.7	18.4	19.7
25		20.6	21.5	23.0	24.8	26.4	27.4	28.1	18.4	17.6	17.6	19.3	20.4
26		21.3	22.2	23.6	25.3	26.7	20.2	15.7	11.8	13.9	15.6	16.9	18.7
27		19.8	20.7	22.0	24.0	25.7	27.0	28.0	20.4	17.3	18.1	17.8	19.7
28		20.6	21.5	22.6	24.3	25.9	27.2	28.0	27.6	24.9	26.1	26.9	27.6
29		28.7	29.7	30.6	31.1	31.2	31.3	30.7	29.1	20.4	22.4	23.9	24.9
30		25.7	26.4	27.7	28.6	29.2	29.2	28.9	25.2	18.0	18.7	20.6	22.0
31		23.0	23.8	24.7	26.1	27.5	28.3			in the second		544	

Table F-142 SUSPENDED SOLID CONCENTRATION OF RELEASED WATER FROM PROPOSED SAN ROQUE DAM UNDER THE CASE OF RUN 4

		7.1
Unit		mo i
Omn	٠	mg/l

Year in Order		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec
1										2,075	445	1,035	791
2		561	492	477	1.394	1,142	1,368	1,392	331	581	275	1,040	781
3		542	456	988	3,376	948	1,201	1,319	529	358	942	1.040	782
4	- 13	542	457	947	2,400	1,318	1,226	1,373	1,397	1,552	546	1,042	783
5		544	460	879	3,188	2,857	1,314	1,061	229	404	584	609	794
. 6	٠.	560	487	493	2,406	2,285	2,636	1,779	1,363	1,525	649	509	75
7		561	487	513	3,737	2,775	2,932	1,451	1,274	1,329	922	870	73
8		2,110	3,071	3,475	2,497	1,754	2,652	1,635	1,273	1,397	1,001	982	75
9		521	453	1,763	1,479	1,612	1,388	1,260	1,351	1,510	656	906	79
10		567	499	494	923	1,582	1,576	1.256	1,276	1,262	907	2,725	2,16
H	7.5.	1,592	2,228	2,881	2,317	1,637	1,227	1,320	331	624	840	1,031	76
12		519	505	2,018	2,103	1,640	1,450	1,397	1,573	594	660	1,040	78
13		546	462	749	1,543	1,170	1,829	1,417	1,081	319	668	1,040	78
14	٠.	556	488	475	1,289	2,089	1,342	1,527	1,176	236	750	1,037	. 77
15		525	505	4,208	1,963	2,644	2,971	1,258	334	307	283	702	79
16	, :	558	476	724	4,050	6,384	1,983	1,440	968	555	611	1,034	76
17	1	515	711	5,131	4,868	1,113	628	470	419	319	1,080	1,045	79
18	1.5	559	480	687	2,981	2.484	3,956	1,334	235	126	290	1,049	78
19		546	457	981	4,239	1,195	1,226	1,476	428	235	40 I	1,048	78
20		560	505	521	1,025	1,051	1,416	974	293	324	305	948	78
21	1.	553	476	640	1,693	981	1,512	1,710	1,845	953	734	263	64
22		568	496	504	3,234	3,646	2,989	1,511	1,668	1,209	508	1,198	80
23	1.	569	498	477	2,518	1,188	1,606	1,647	360	667	312	1,205	79
24	12.	550	459	1,360	3,527	989	1,412	1,555	563	408	1,089	1,204	79
25	. 1	550	459	1,285	2,496	1,371	1,441	1,614	1,654	1,610	595	1,206	79
26	٠٠.	552	463	1,160	3,340	2,996	1,556	1,045	259	461	671	700	80
27		568	494	562	2,479	2,363	3,113	2,097	1,615	1,773	675	582	76
28		569	494	588	3,854	2.912	3,466	1,709	1,505	1,568	1,083	1,022	7.
29	1.1.	2,185	3,226	3,643	2,599	1.824	3,135	1,928	1,505	1,650	1,174	1,152	7
30		539	443	1,804	1,544	1,680	1,637	1,489	1.596	1,727	683	1,048	80
31		575	507	496	1,157	1,938	1,860	1,485	1,504				

Table F-143 TOTAL COPPER CONCENTRATION OF SUSPENDED SOLID CONTAINED IN RELEASED WATER FROM PROPOSED SAN ROQUE DAM UNDER THE CASE OF RUN 4

		. `									Ur	it : ppm
Year in Order	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1						• •			429	471	445	581
2	596	612	627	587	593	464	447	484	461	484	443	580
3 .	599	621	596	571	603	463	455	468	477	447	447	585
4	606	628	601	578	595	473	466	448	438	472	450	588
5	610	632	606	573	579	459	451	508	472	461	461	578
6	595	612	625	575	580	447	462	455	441	469	477	584
7	602	619	631	569	578	446	474	468	456	468	476	614
. 8	581	576	577	588	601	455	475	474	450	460	461	595
9	620	640	582	589	589	470	467	454	439	465	454	584
10	601	616	626	601	587	463	467	464	461	481	442	582
11	592	586	582	591	603	482	465	491	461	453	451	592
f2	618	630	579	582	591	471	452	440	471	466	452	539
13	612	634	610	586	594	457	449	447	489	460	449	585
14	601	615	625	587	580	454	443	447	505	455	449	589
15	615	631	568	586	583	449	484	491	479	477	452	575
16	594	615	608	569	566	464	452	454	476	470	454	595
17	628	622	568	572	577	472	481	480	484	445	449	583
18	603	624	618	575	582	439	468	504	500	466	440	576
19	596	617	593	568	597	473	445	474	490	466	443	581
20	592	600	604	585	587	451	452	493	479	476	445	580
21	597	614	611	581	589	407	396	391	410	420	457	579
22	592	608	623	571	574	403	419	402	403	434	401	585
23	602	619	637	577	596	420	402	439	414	438	395	580
24	601	625	590	573	605	423	408	425	429	399	399	585
25	608	632	593	580	597	428	420	402	392	425	401	587
26	610	635	598	575	582	414	409	457	425	414	414	578
27	596	614	622	577	582	402	417	409	392	424	428	582
28	601	620	626	571	581	401	429	422	407	418	426	615
29	581	578	579	591	603	408	428	425	402	409	410	592
30	615	641	582	589	589	424	421	407	392	420	405	583
31	600	615	629	595	584	419	422	417	te çe			

Table F-144 SOLUBLE COPPER CONCENTRATION OF SUSPENDED SOLID CONTAINED IN RELEASED WATER FROM PROPOSED SAN ROQUE DAM UNDER THE CASE OF RUN 4

Unit: ppm Year Oct. Nov. Dec. Sept. Feb. Jan. Mar. Apr. May June July Aug. Order :9

Table F-145 ESTIMATED MONTHLY INFLOW OF WATER SOLUBLE COPPER INTO ARIS AREA UNDER THE CASE OF RUN 1

	•	:			harra a			1. 5. 1.	1 41.		<i>i</i> .	U	nit : g/ha
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
/ I								4. +	3	- 1	4	5	
2	10	8	5	3	2	8	9	5	2	1	4	6	64
3	10	8	7	3	ī	8	8	5	3	3	4	6	.67
4	10	8	. 7	3	1	9	12	5	3	- 3	4	6	69
5	10	8	6	3	1 -	8	10	6	. 5	3	3	5	68
6	10	8	5	2	2	11	17	9	3	. 1	3	6	77
7	10	- 8	7	2	2.	10	15	10	6	2	4	7	83
8	10	8	7	3	Ĩ	10	15	9	2	3	3	4	74
9	. 9	9	6	3	3	9	12	10	2	3	4	. 7	. 74
10	10	<u>9</u> .	7	3	3	7	7	10	3	1	[4]	7	70
11	10	8	5	2	1.	8	14	5	2	2	: - 4	- 7	69
12	11	9	5	. 3	2	10	8	9	3	1	-4	7	72
13	11	ģ	7	3	. 2	10	10	8	3 :	. 2	- 4	8	78
14	11	ģ	7	3	3	4	6	9	2	3	4	. 7	68
15	i ii j	ģ	6.	3	2	9	14	4	3	i	3	4	86
16	9	8	6	2	1 :	7	7	8	3	3	5	8	66
17	Ħ	9	6	. 3	2	9	10	6	3	: 3	: 4	. 6	71
18	11	9	6	3	3	11	12	6	3	3	5	7	78
19	11	9	7	3	3	' 9'	10	10	3	1	4	7	75
20	11	9	7	2	3	8	11	10	4	1	4	5	74
21	10	9	6	4	2	: : .10	10	10	3	1	4	5	74
22	11	9	6	3	2	- 9	- 10	6	3	1	4	6	70
23	11	9	8	4	2	10	9	. 5	4	3	4	7	74
24	it	9	8	3	1	10	13	5	⊹ 3	3	4	6	76
25	Ħ	9	7	4	. 1	9	11	6	5	3	3	5	75
26	10	9	6	2	. 2	12	19	10	3	1	; ¹ 3·	6	84
27	11	9	8	3	2		17	: 11	7	2	: 4	7	92
28	11	8	8	3	2	H	17	10	2	3	. 3	. 5	82
29	10	9	6	3	3	10	13	11	3	3	4	. 7	82
30	H	9	8	3	- 3	8	8	11	3	1	4	8	77
31	11	8	6	2	2	10	16	6	10 / 10 ft a				_
Average	11	9	7	3	2	9	12	8	3	2	4	6	74

Table F-146 ESTIMATED MONTHLY INFLOW OF SOLUBLE COPPER CONTAINED IN SUSPENDED SOLID INTO ARIS AREA UNDER THE CASE OF RUN 1

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
									23	15	116	232	
l	207	302	208	274	82	241	195	104	23	16	115	277	2,233
2	397	308	208 267	304	59	245	183	98	32	41	115	301	2,344
3	392					243 251	259	100	28	38	112	276	2,367
4	403	311	261	278	50					45	82	229	2,266
5	399	323	249	287	42	232	224	112	43	43	62	227	2,200
6	375	303	204	197	80	302	378	174	27	18	98	278	2,434
ž	408	326	265	208	87	280	337	186	57	25	110	303	2,593
8	407	288	260	242	61	272	333	173	18	39	79	208	2,379
ÿ	356	321	221	248	112	240	254	187	22	40	111	310	2,422
10	395	321	268	267	121	196	154	184	22	13	114	337	2,392
						4						222	2,223
11	399	282	212	147	62	229	308	96	22	27	112	327	
12	420	328	220	272	98	277	175	164	23	13	111	325	2,425
13	423	325	254	264	105	291	220	137	29	33	122	354	2,558
14	423	326	266	303	137	117	133	158	16	39	123	307	2,348
15	414	325	234	251	79	245	289	69	25	19	95	171	2,215
16	337	309	223	163	55	186	151	136	23	39	134	377	2,131
17	423	320	252	250	68	236	218	106	26	.37	106	266	2,308
18	427	324	259	237	113	291	245	94	23	42	147	342	2,545
19	427	322	259	264	105	252	214	157	24	15	113	291	2,443
20	402	327	286	208	105	200	230	157	32	15	113	229	2,304
20	402	341	200	200	100	200							
21	391	326	256	307	64	267	200	159	23	16	120	238	2,367
22	414	315	239	287	86	250	199	88	22	- 16	115	278	2,307
	400	314	303	315	61	253	187	83	31	41	115	302	2,405
23		316	296	288	52	259	264	85	27	38	112	278	2,425
24 25	410 407	329	290 284	298	44	239	229	95	42	45	82	230	2,324
23	407	323	201						•		00	280	2,480
26	382	309	233	205	84	311	385	148	26	18	98		2,460
27	416	332	304	216	91	289	344	158	56	25	111	305	
28	416	294	298	253	63	281	340	147	18	39	79	209	2,436
29	362	327	256	260	117	248	260	161	22	40	112	312	2,476
30	403	327	310	280	126	203	158	157	22	13	115	339	2,453
31.	407	287	246	154	65	238	317	82	: 			, <u></u>	
Average	401	316	256	251	82	247	246	132	28	29	109	284	2,381

Table F-147 ESTIMATED MONTHLY ACCUMULATION OF SOLUBLE COPPER ON PADDY FIELD IN ARIS AREA UNDER THE CASE OF RUN I

							T I.	A	Cant	Oat	Nov.	Dec.	Annual
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	1101.		***************************************
1									14	9	66	131	
1	224	171	- 117	152	46	137	112	60	14	. 9	65	: 155	1,263
2	221	174	. 151	169	33	140	105	57	19	24	65	169	1,326
	227	175	147	154	28	143	149	58	17	22	64	155	1,340
4	225	182	141	159	24	132	129	64	26	27	47	129	1,284
5	223	102	141	. 139	24	1.4	127			· · · T '			
6	212	171	115	110	45	172	217	190	16	± 11	56	156	1,381
7	230	184	149	116	49	159	194	108	- 35	15	62	170	1,472
8	230	163	147	134	34	. 155.	192	100	× 11 11	23	45	117	1,350
9 .	201	181	125	138	63	137	146	108	14	24	63	174	1,373
1Ó	223	181	151	148	68	112	89	107	14	8	65	190	1,354
10		,											
H	- 225	159	119	82	35	131	· 177	55	13	- 16	64	184	1,260
12	237	185	124	-151	55	158	101	95	14	8	63	182	1,374
13	239	184	143	147	59	166	126	80	18	'19	70	199	1,449
14	239	184	150	169	. 77	67	77	92	10	23	70	173	1,329
- 15	234	183	132	140	44	: 140	167	40	15	11	54	96	1,255
		• *											1 200
16	190	174	126	90	31	106	87	79	14	23	76	212	1,208
17	239	181	142	139	38	135	126	62	16	22		149	1,308
18	241	183	146	132	63	166	141	55	14	25	84	192	1,443
19	241	182	146	147	59	144	123	92	15	9	64	163	1,385
20	227	185	161	115	59	114	133	91	20	9	64	129	1,308
	001	101	145	171	36	153	115	93	14	. 9	68	134	1,343
-21	221	184	145	171	48	143	115	51	14	ģ	65	156	1,307
22	233	178	135	159	46 34	143	108	49	19	24	65	170	1,363
23	226	177	171	175		148	152	50	17	22	64	156	1,376
24	232	178	167	160	29 25	137	132	. 55	26	27	47	130	1,319
25	230	186	160	166	23	131	132	. 33	20	2:	•••		
26	216	175	131	114	47	178	222	. 86	- 16	. 11	56	158	1,410
20 27	235	188	171	120	52	165	198	93	. 35	15	63	172	1,506
28	235	166	168	141	36	161	196	86	11	23	45	117	1,385
29	205	185	144	145	66	142	150	95	13	24	63	176	1,407
30	228	185	175	156	71	116	91	92	14	8	65	191	1,392
30	- 440	103	. 173	. 130	7.1	110							
31	230	163	139	86	37	136	183	. 48			14.4	. 1	
Average	226	178	145	140	46	[4]	142	77	17	17	62	159	1,350

Table F-148 ESTIMATED MONTHLY INFLOW OF WATER SOLUBLE COPPER INTO ARIS EXTENSION AREA UNDER THE CASE OF RUN 1

Unit:	1/ي	1;1
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												Unit:	g/ha
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1									3	i	3	4	
- 1 2	10	8	5	3	1	8	10	5	2	: 1	3	5	62
3	9	. 8	7	3	i i	8	9	5	4	3	3	5	65
4	10	8	7	3	1	9	12	5	3	3	3	5	68
5	10	8	6	3	Ī	8	10	6	5	3	2	4	66
6	:: .9	8	5	2	1	10	18	9	. 3	. 1	2	. 5	75
ž	10	8 8	7	2	1	10	16	10	7	2	3	6	81
8	10	8	7	2	1	- 10	16	9	2	. 3	2	3	73
9	8	9	6	- 2		9	12	10	3	3	3	6	72
10	· 9	8	7	2	2 2	7	8	- 10	3	1	3	7	67
្នាំ។	10	7	, 5	1	1	9	15	5	2	2	3	. 6	67
12	10	, 9	5	3	2	10	9	9	3	Į	. 3	6	69
13	11	9	6	3	2	11	11	8	3	. 2	. 3	7	75
14	1)	9	. 7	3	. 3	5	7	9	. 2	. 3	3	6	65
15	10	8	6	2	2	9	15	4	3	1	2	3	66
16	8	8	. 5	2	* ; 1	7	7	. 8	3	. 3	. 4	7	63
17	10	8	6	2	1	9	11	6	. 3	2	3	5	68
18	11	. 8	6	2	3	11	13	6	3	3	4	7	76
19	11	. 8	6	3	2	10	. 11	10	3	ł	3	6	73
20	10	9	7	2	2	. 8	12	10	4	1	3	4	71
21	10	9	6	. 3	1	'n.	111	3	1	4	6	6	71
22	10	9	6	3	1	10	. [1	6	3	1	3	5	68
23	10	9	8	4	1	10	10	5	4	3	3	6	71
24	10	9	8	3	1	10	14	6	3	3	3	5	74
25	10	9	7	3	1	10	12	6	5	3	2	4	73
26	. 10	8	6	. 2	· . 1	12	20	10	3	1	3	5	82
27	11	- 9	8	2	2	11	18	11	7	2	3	6	90
28	ĺì	8	8	3	1	11	18	10	2	. 3	2	3	80
29	9	ğ	6	3	3	. 10	14	11	3	3	3	6	80
30	10	ģ	8	3	3	8	9	11	3	i	3	7	74
31	10	8	6	2	2	10	17	6					
Average	10	8	6	3	2	9	12	8	3	2	3	5	72

Table F-149 ESTIMATED MONTHLY INFLOW OF SOLUBLE COPPER CONTAINED IN SUSPENDED SOLID INTO ARIS EXTENSION AREA UNDER THE CASE OF RUN 1

Unit:	g/ha
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				A	Man	June	July	Aug	Sept.	Oct.	Nov.	Dec.	Annua
	Jan.	Feb.	Mar.	Apr.	May			Aug.					
									23	14	86	194	_
]	373	298	203	259	56	247	219	109	23	15	86	241	2,128
2	373 364	303	270	290	40	247	195	102	33	43	86	262	2,234
3			262	263	33	255	277	102	28	40	84	236	2,262
4	375	306			28	237	235	116	44	47	61	182	2,160
5	372	319	248	. 273	. 20	237	. 233	. 110				i. "-	
6	350	299	200	185	55	298	398	179	28	. 19	73	235	2,319
7	384	321	262	189	65	282	359	190	58	25	82	. 265	2,482
8	381	281	259	220	54	275	353	175	19	40	58	155	2,270
9	327	317	218	229	. 93	240	270	189	22	41	. 83	274	2,303
1Ó	368	314	265	240	98	200	169	. 181	23	13	85	305	2,261
		a :	227	101		246	328	95	22	26	84	293	2,12
П	374	274	206	121	53	246		160	23	12	83	292	2,29
12	. 393	321	211	241	81	284	191			31	94	323	2,42
13	399	317	243	232	87	302	234	135	30		95	273	2,19
14	396	316	256	263	109	124	. 148	155	16	38	7]	127	2,08
15	389	316	223	217	68	258	313	64	. 25	18	, , , , , , , , , , , , , , , , , , ,	1ZI	2,00
16	303	302	215	139	55	204	159	133	23	37	106	347	2,02
17	395	308	240	209	60	252	236	102	26	34	79	227	2,16
18	401	312	245	199	106	308	267	94	23	39	121	310	2,42
. 19	401	309	242	220	98	265	238	162	23	14	84	258	2,31
20	376	323	283	192	82	209	253	158	32	14	84	183	2,18
		~.~	0.17	200	**	277	224	57	11	56	167	275	2,31
21	364	319	247	266	56		223	92	22	15	86	242	2,19
22	388	310	234	271	58	256		86	32	43	85	263	2,29
23	371	310	306	301	41	254	199			40	83	238	2,31
24	382	311	298	262	35	262	283	87	28	40	61	183	2,21
25	380	325	283	283	29	245	239	98	43	. 47	01	. 103	اطوبد
26	356	306	229	192	57	308	406	152	27	19	73	237	2,36
27	392	327	300	197	68	291	366	162	57	25	82	267	2,53
28	389	287	296	230	56	284	360	149	19	40	59	155	2,32
20 29	333	324	251	240	97	248	276	163	22	40	83	276	2,35
30	333 376	321	306	252	103	207	173	155	22	13	86	307	2,31
30	370	321	300	232.	103	201					•	W.	e e e e e e e e e e e e e e e e e e e
31	381	279	239	127	56	255	339	81		····	· 	<u> </u>	
Average	374	309	251	227	66	254	264	129	28	30	85	248	2,26

Table F-150 ESTIMATED MONTHLY ACCUMULATION OF SOLUBLE COPPER ON PADDY FIELD IN ARIS EXTENSION AREA UNDER THE CASE OF RUN 1

Unit:	g/	ha
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	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
. ,				:					14	8	49	109	
1	210	168	115	144	31	141	-126	63	14	9	49	135	1,204
2	210		152	161	22	140	1120	59	20	25	49	147	1,264
3	205	171 173	132	146	19	145	159	59	17	23	48	133	1,281
4	212	, -						67	27	27	35	102	1,225
5	210	180	140	152	16	135	135	07	2,1	21	,,,	101	•
. 6	197	169	` 113	103	31	170	229	104	17	11	42	132	1,316
5 Jan 7.	217	-181	148	105	. 36	160	206	110	36	15	46	149	1,410
8	215	159	146	122	30	156	203	101	12	24	.33	87	1,288
. ğ	185	179	123	127	52	136	155	110	14	24	47	154	1,306
10	208	177	149	134	- 55	114	97	105	14	8	49	171	1,281
11	211	155	116	68	30	140	189	55	. 13	15	48	165	1,204
11	222	181	119	134	46	162	110	93	14	7	47	164	1,299
12		179	137	129	49	172	135	78	18	18	53	181	1,376
13	225		137	146	-61	71	85	90	10	22	54	153	1,240
14	224	178			- 38	147	180	38	15	10	40	71	1,185
15	219	178	126	121	- 36	147	100	30	. 15			• •	
16	171	170	121	77	31	117	91	78	14	22	60	195	1,148
17	223	174	135	116	34	144	136	59	16	20	45	127	1,229
18	227	176	138	111	60	176	154	55	. 14	23	69	174	1,377
10	226	174	136	123	55	151	137	. 94	14	8	48	145	1,312
	212	183	159	107	46	119	146	92	20	8	48	103	1,244
20	ZIZ	163	139	107		F1 112	1 10			•			
21	205	180	139	148	32	158	129	33	7	33	95	154	1,314
22	219	176	132	.151	33	146	129	54	14	9	49	136	1,240
23	209	175	173	168	23	145	115	51	20	25	49	148	1,300
23	216	176	168	151	20	150	163	51	17	23	47	134	1,310
25	214	184	160	158	- 16	140	138	57	26	28	35	103	1,25
		103	100	. 102	32	176	234	89	17	11	42	133	1,34
. 26	201	. 173	129	107 109	38	166	211	95	35	15	47	150	1,44
27	222	185	169		32	163	208	87	11	23	34	87	1,32
28	220	162	167	128	32 55	142	159	96	14	24	47	155	1,33
29	188	183	142	133		118	100	91	14	8	49	173	1,31
30	- 212	181	173	140	58	118	UUI	21	177	v	.,		
31	215	158	135	. 71	32	146	196	48					
Average	211	175	142	126 .	37	145	152	7,5	17	18	48	139	1,28

Table F-151 ESTIMATED MONTHLY INFLOW OF WATER SOLUBLE COPPER INTO ADRIS AREA UNDER THE CASE OF RUN I

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
									2	1	2	3	<u> </u>
1		-		3		. 8	9	5	2	i	2	4	56
2	. 9	7	5	3	1	8	. 8	5	3	3	, 2	5	59
. 3	8	7	7	3	1		12	5	3	3	2	4	62
4	8	7	6	. 3	, <u>I</u>	8 7	10	5	4	3	ī	3	60
5	8	8	6	3	1	1 1	10		•	and a second			100
6	8	7	5	2	I	9	17	9	3	1	2	4	68
7	9	8	6	2		9	. 15	9	6	2	; 2	5	74
8	. <u> </u>	7	ě	2	i	. 9	-15	9	. 2	3	1	2	66
9	7	8	5	3	2	. 8	12	9	. 2	3	2	5	66
10	8	8	6	3	2	. 6	. 7	9	2	1	2	5	61
10	o	ō	v							4.5.4		May 1	
11	8	7	5	. 1	1	8	14	5	2	2	2	. 5	61
12	9	. 8	5	3	. 2		8	. 8	- 2	1	2	5	63
	9	8	6	3	2	10	10	7	. 3	2	2	6	68
13	. 9	8	-6	. 3	2	4	6	8	2	' 3	2	5	59
. 14	. 9	8	-5	2	1	8	14	3	3	1	2	2	- 60
15	. 9	0	,	: 4	•								1 244
16	7	7	5 ,	2	ł	7	7	7	2	3	3 2	6 4	57 62
- 17	9	8	.6	2	1	8	11	6	3	3		6	69
18	9	8	- 6	2	. 2	10	12	5	3	3	3		66
19	. 9	8	6	2	2	9.	- 11	. 9	3	. !	2	5	UX.
20	9	8	. 7	2	2	7	- 11	9	3	in latin di l i. Na mara	. 2	3	6:
		o	6	3	1	9	10	3	. 1	3	4	. 5	6
21	. 9	8		. 3		. :9	01	5	3	- 1	2	4	6
22	-	8	6	. 3	1	9	9	5	3	3	2	5	6
23	. 8	.8	8		1	9	13	5	3	3	2	4	6
24	9	8	7	3	1	9	11	6	5	3	2	3	6
25	. 9	8	7		•	9					· ·		
26	8	8	6	2	.]	11	19	9	3	- 1	2	4	7: 8
27	9	8	: 7	2	. 2	10	17	10	7	. 2	2	5	0
28	9	7	7	3	, 1	01	17	9	2	3	i	2	7.
29	8	8	6	3	2	9	13	10	2	3	2	5	7.
30	ğ	8	8	3	3	8	8	01	3	1	2	6	6
4.0		•					1.		F		+ ₁₂ %		4.5
31	9	. 7	6	2	1	9	16	5.			1		
Average	9	8	6	3	2	8	12	7	3	2	2	4	6:

Table F-152 ESTIMATED MONTHLY INFLOW OF SOLUBLE COPPER CONTAINED IN SUSPENDED SOLID INTO ADRIS AREA UNDER THE CASE OF RUN 1

Unit:	g/ha
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	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov	Dec.	Annual
			·										-
l									22	16	62	152	1.036
2	324	272	194	271	56	223	206	98	21	17	61	192	1,935
3	315	278	261	301	40	224	188	93	29	43	61	216	2,048
4	325	280	254	274	33	230	261	94	25	40	60	192	2,069
5	322	292	241	284	28	216	222	106	40	46	44	137	1,977
6	304	274	193	197	55	270	373	167	-25	20	52	187	2,117
7	333	293	252	191	63	256	337	179	54	26	59	217	2,260
8	331	256	248	225	48	248	334	164	17	41	42	110	2.065
9	276	290	209	234	86	222	253	174	21	41	59	224	2,091
10	321	287	255	247	91	181	162	169	21	14	62	254	2,064
11	325	251	198	127	49	219	309	86	21	27	61	242	1,914
12	343	294	205	250	75	255	180	149	21	14	59	242	2,086
13	347	289	231	234	81	271	225	127	29	33	70	270	2,207
	345	289	243	267	103	ĨĦ	135	144	15	39	71	223	1,986
14 15	338	289	212	221	62	230	298	59	23	20	51	91	1,893
	~~.				10	107	148	124	21	39	81	292	1,814
16	251	276	204	143	48	186		94	-24	36	57	178	1,960
17	344	282	228	214	. 55	224	225	94 90	22	30 41	95	256	2,200
18	350	286	235	205	94	273	253			15	61	208	2,075
19	349	281	228	219	87	236	221	146	22	15	61	138	1,993
20	327	296	272	204	78	190	238	145	-29	10	01	150	
21	313	291	235	271	51	246	211	55	12	40	131	225	2,081
22	337	284	223	283	58	231	210	83	21	17	61	193	2,002
23	321	283	296	312	41	231	192	79	29	43	61	217	2,105
24	331	285	288	284	35	237	266	80	25	40	60	193	2,12
25	328	298	272	295	29	222	226	90	39	46	43	138	2,03
24	309	280	221	204	57	278	381	142	25	20	52	188	2,15
26	340	299	289	198	65	264	344	152	- 53	. 26	59	219	2,30
27		262	284	235	51	257	341	140	16	40	42	111	2,11
28	338		264 241	245	90	230	259	150	20	41	60	226	2,13
29	281	296		259	-96	187	166	144	21	-14	62	256	2,11
30	327	293	295	239	70	107	100		٠.١	• •			
31	332	256	229	133	51	226	319	74					
Average	324	283	241	234	62	229	249	120	26	30	62	200	2,06

Table F-153 ESTIMATED MONTHLY ACCUMULATION OF SOLUBLE COPPER ON PADDY FIELD IN ADRIS AREA UNDER THE CASE OF RUN 1

Unit: ;	g/ha
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	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annua
									13	9	35	86	
1	183	154	110	150	31	127	118	57	13	10	35	108	1,095
2	178	157	147	167	22	127	108	54	18	25	35	121	1,159
3		158	143	152	19	131	150	54	16	23	34	108	1,172
4 5	183 182	165	136	158	16	123	127	61	24	27	25	77	1,12
3	102										20	105	1,20
6	171	155	109	109	31	153	215	96	16	12	30		1,28
7	188	165	142	106	35	146	194	104	33	15	33	122	
8	187	145	140	125	27	141	192	95	10	24	24	62	1,17
9	156	164	118	130	49	127	146	101	13	24	34	126	1,186
10	181	162	144	138	51	103	93	98	13	8	35	143	1,16
11	183	142	112	70	28	124	178	50	13	16	35	136	1,08
	194	166	116	139	42	145	104	86	13	,8	34	136	1,18
12 13	194	163	131	130	45	154	130	74	18	19	40	152	1,25
	195	163	137	149	58	64	78	84	9	23	40	125	1,12
14	193	163	120	123	35	131	171	34	14	12	29	51	1,07
15	191	103	120	123	33	13.							
16	142	156	115	80	27	106	85	72	13	23	46	164	1,02
17	194	159	129	119	31	128	129	55	15	21	32	100	1,11
18	198	161	132	114	53	156	146	53	14	24	54	144	1,24
19	197	159	129	122	49	135	128	85	14	9	35	117	1,17
20	185	167	154	113	44	108	137	85	18	9	35	77	1,13
٥.	177	164	132	151	29	141	122	32	7	23	74	126	1,17
21	177 190	161	126	157	33	132	121	49	13	10	-35	109	1,13
22			167	174	23	132	110	46	18	25	35	122	1,19
23	181	160	163	158	20	135	153	47	15	23	34	108	1,20
24 25	187 186	161 168	155	164	16	127	130	53	24	27	25	78	1,15
23	100								1.5	10	20	106	1,22
26	175	158	124	114	32	159	220	83	15	12	30	106	
27	192	169	163	110	37	151	198	89	33	15	33	123	1,31 1,20
28	191	148	160	131	29	147	197	82	10	24	24	62	
29	159	167	136	137	51	132	150	88	13	24	34	127	1,21
30	185	166	166	144	54	107	96	85	13	8	35	144	1,20
31	187	145	129	74	29	130	184	43					
Average	183	160	136	130	35	131	144	70	16	18	35	112	1,16

Table F-154 ESTIMATED MONTHLY INFLOW OF WATER SOLUBLE COPPER INTO LARIS AREA UNDER THE CASE OF RUN 1

100													
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1									3	i	3	4	
2	: 10	. 8	- 5	3	ı	8	10	5	3	1	3	5	61
3	9	. 8	7	3	i	8	9	5	4	3	3	5	65
4	10	8	7	3	ì	9	- 12	5	3	3	3	5	68
5	10	8	6	3	i	. 8	11	6	- 5	3	2	4	66
6	9	8	. 5	2	1	10	18	9	3	1	2	5	75
7	- 10	- 8	7	2	i	10	16	10	. 7	2	3	6	81
8	10	. 8	7	2	1	10	16	10	2	` 3	2	3	73
9	8	9	6	2	2	9	12	10	3	3	3	6	72
10	9	, ģ	ž	2	- 2	7	8	10	3	1	3	7	67
12-5							15	5	3	2	3	6	67
11	10	7	5	1	1	9	- 9	: 9		- 1	3	6	69
12	10	.9	- 5	3	∴ 2	10		. 8	4	2	3	7	75
13	- 11	9	- 6	2	2	-11	411	9	2	3	3	6	65
14	411	9	7	3	2	4	7 15	4	3	1	2	š	66
14 15	10	9	- 6	, 2	i	9		4	3				
16	8	8	- 5	1	· I.	. 7	7	8	3	3	4	7	64
17	10	. 8	6	- 2	1	9	- 11	. 6	3	3	3	5	68
18	11	8	. 6	2	.: 2	11	. 13	6	3	3	4	7	76
19	ii	8	6	2	2	10	11	10	- 3	l	3	-, 6	73
20	10	9	7	2	2 2	8	12	- 10	. 4	, 1	. 3	4	71
21	 10	9	6	3	. 1	10	11	10	5	i	2	. 6	74
22	::10	9	6	3	. i	10	. 11	6	3	1	- 3	5	67
22	10	9	8	3	1	. 10	10	5	4	- 3	3	6	71
23	10		. 8	- 3	i	10	14	6	3	3	3	5	74
24 25	- 10	9	7	3	i,	10	12	6	5	4	2	4	73
26	10	8	6	2	1	12	20	10	3	2	3	5	87
	11	9	8	2	i	11	18	11	7	2	- 3	6	90
27		: 8	8	3	i	[]	18	10	. 2	3	2	4	80
28	11	9	. 6	- 3	2	10	14	11	. 3	3	. 3	6	86
29	. 9	9	. 8	3	2	. 8	9	11	3	1	3	7	7.
30	10	. 9	•					٠					_
31	10	8	6	2	1	10	17	6.					
Average	10	8	6	2	1	9	13	8	3	. 2	3	5	7:

Table F-155 ESTIMATED MONTHLY INFLOW OF SOLUBLE COPPER CONTAINED IN SUSPENDED SOLID INTO LARIS AREA UNDER THE CASE OF RUN 1

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annua
1									24	17	89	194	
1 2	371	298	204	253	47	243	217	107	23	18	88	238	2,107
3	363	304	271	282	33	244	199	102	33	45	88	261	2,225
3 4	303 374	307	264	256	28	251	279	104	28	42	86	236	2,25
5	371	320	251	266	23	237	239	116	44	49	63	184	2,16
,	251	201	203	104	46	291	400	181	28	21	75	236	2,31
6	351	301	203	184	-		361	195	59	28	84	263	2.46
7	383	322	264	177	54	278		179	19	43	60	159	2,26
8	380	282	260	208	43	272	358	192	23	44	85	271	2,28
9	326	319	219	219	76	239	272	187	23	15	88	302	2,24
10	369	315	266	230	80	197	170	187	23	13	00	302	2,27
11	373	276	208	116	43	239	331	97	23	29	87	290	2,11
12	393	323	215	232	66	275	191	165	23	, 14 35	85	289	2,27
13	397	318	244	217	71	293	238	140	31		96	318	2,40
14	395	318	256	248	90	118	144	160	17	42	. 97	269	2,15
15	388	318	224	204	55	251	316	67	26	21	73	131	2,07
16	302	305	216	132	44	200	160	138	24	42	108	341	2,01
17	395	311	241	197	49	246	238	106	27	39	81	224	2,15
18	402	316	248	188	85	297	268	98	24	45	121	305	2,39
19	400	311	242	202	78	259	235	162	25	16	87	254	2,27
20	376	324	285	191	68	204	252	161	32	17	87	184	2,18
	3.00	200	240	261	44	269	222	162	42	15	60	- 271	2,27
21	363	320	249	251 264	46 49	252	221	90	23	17	88	239	2,17
22	387	311	235			251	203	86	32	45	88	263	2,28
23	370	310	308	293	35 29	259	284	88	28	42	86	237	2,31
24 25	381 379	312 326	300 286	265 276	2 9 24	244	243	99	43	49	63	185	2,21
23	3,7	320	200	2.0								000	2.26
26	357	307	231	191	48	301	408	154	27	21	75 95	238	2,35
27	391	328	302	184	56	287	368	166	58	28	85	265	2,51
28	388	288	297	218	45	281	365	153	18	43	61	160	2,31
29	332	325	253	230	80	247	278	165	22	43	85	273	2,33
30	376	322	308	241	84	204	174	160	23	14	89	304	2,29
31	381	282	242	121	46	248	341	82					-
verage	374	311	253	218	54	249	266	135	29	31	84	246	2,25

Table F-156 ESTIMATED MONTHLY ACCUMULATION OF SOLUBLE COPPER ON PADDY FIELD IN LARIS AREA UNDER THE CASE OF RUN 1

	Jan,	Feb.	Mar	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
			,						16	10	50	109	
l	210	169	415	141	26	138	125	61	15 14	10	50 50	- 134	1,193
2	205	171	153								50 50	134	1,259
3	203		149	157	19	139	114	59	20	26	30 49	133	1,278
4		173		142	16	143	160	60	17	25			1,276
5	209	180	142	148	·· 13	135	137	67	27	29	36	103	1,220
6	198	170	114	103	26	166	230	105	17	12	- 43	133	1,316
. 7	216	182	149	98	30	158	207	1113	36	16	48	148	1,401
8	214	:159	146	116	24	155	206	104	11	25	34	89	1,285
9	184	180	124	122	43	136	157	111	14	26	48	152	1,296
- 10	208	178	150	128	45	112	98	108	14	9	50	170	1,270
11	211	156	: 118	. 64	24	- 136	190	56	14	17	49	163	1,198
12	222	182	121	129	37	157	110	96	14	8	48	162	1,288
- 13	224	180	138	121	40	167	137	: 81	19	21	55	179	1,362
14	223	179	144	138	50	68	83	93	10	25	55	151	1,221
15	219	180	126	114	31	143	182	39	16	12	42	73	1,176
	131	172	122	73	25	. 114	. : 92	80	15	24	61	192	1,141
16	171	172	122		23 28		137	62	16	. 23	46	126	1,222
17	223	176	136	109		140		57	15	26	69	171	1,360
., 18	227	179	140	105	48	169	154		15 15	10	49	143	1,289
19	226	176	137	112	44	148	135	95		10	49	143	1,238
20	212	183	160	106	× 38	- 117	145	94	20	10	49	304	1,230
21	205	181 -	140	140	26	153	128	94	26	9	34	153	1,289
22	219	176	132	147	28	144	127	53	14	10	50	. 135	1,235
23	209	175	174	163	20	144	-117	51	20	26	50	148	1,295
24	215	176	169	148	16	148	164	51	17	25	49	134	1,312
25	214	184	161	154	14	140	140	58	27	29	36	104	1,260
26	202	173	: 130	107	. 27	172	- 235	90	. 17	12	43	134	1,343
20 27	202	185	170	102	32	164	212	97	36	16	48	149	1,433
	219	163	168	: 121	25	161	211	90	11	25	34	90	1,318
28	187	184	143	128	45	141	161	97	14	26	49	154	1,32
29 30	213	182	143	134	43 47	117	101	94	14	9	51	171	1,305
31	215	159	136	68	26	142	197	48					
	,				<u>.</u>				 .		· · · · · · · · · · · · · · · · · · ·		
Average	211	175	143	121	30	142	153	79	18	18	48	138	1,27

Table F-157 ESTIMATED MONTHLY INFLOW OF WATER SOLUBLE COPPER INTO ARIS AREA UNDER THE CASE OF RUN 4

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annua
1									9	4	21	38	
1	88	74	44	19	10	41	24	9	7	3	17	38	374
2 3	72	63	48	19	7	40	28	10	9	10	20	46	372
3 4	83	68	51	19	6	42	45	14	10	-10	21	45	414
5	87	77	51	20	5	30	23	10	iž	11	13	34	372
,	74		38	13	9	48	64	27	10	5	17	44	41:
6	74 85	66 75	52	13 14	10	45	57	37	29	10	28	66	510
7			68	21	9	52	64	38	8	14	18	42	54
8	118	90		20	15	43	46	36	ğ	12	22	55	490
9 10	93 93	91 81	53 57	20	15	33	27	39	13	- 6	32	80	498
10	73												
11	123	93	57	13	9	43	57	9	7	7	21	52	49
12	90	78	45	20	12	47	22	24	8	4	22	55	42
13	96	80	53	20	13	50	26	18	9	8	21	55	45
14	90	77	53	22	17	14	17	24	5	'10	21	46	39
15	83	72	44	17	10	40	50	5	7	3	. 13	23	36
16	60	60	37	10	6	28	16	18	8	10	24	59	33
17	87	73	48	17	5	22	21	13	7	9	18	42	36
18	89	74	48	16	13	48	37	8	4	6	17	40	40
19	68	59	42	16	12	40	22	18	6	3	17	38	:34
20	77	73	53	14	12	32	28	20	9	3	17	31	36
21	72	68	45	20	8	41	29	31	11	5	17	. 34	38
22	79	67	41	18	10	40	31	16	9	4	21	46	38
		76	57	22	8	43	22	9	10	8	17	41	39
23	88 75	64	48	18	6	42	40	10	8	10	20	44	38
24 25	85	75	52	21	5	40	40	15	15	12	15	38	41
	82	73	43	14	10	38	38	15	8	4	16	42	38
26	82 83	73 73	52	14	11	47	60	28	20	7	19	48	46
27				17	8	46	59	36	9	16	20	46	46
28	86	67	52		17	47	49	41	ý	14	26	62	55
29	105	103	60	22	17	36	28	35	8	4	23	59	49
30	104	91	65	22	17		20	3,3	0	7	23	~~	.,
31	94	72	45	11	8	40							
Average	87	75	50	18	10	40	37	21	10	8	20	46	42

Table F-158 ESTIMATED MONTHLY INFLOW OF SOLUBLE COPPER CONTAINED IN SUSPENDED SOLID INTO ARIS AREA UNDER THE CASE OF RUN 4

	Jan.	Fcb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1									101	14	134	235	=
2	404	310	186	. 183	76	270	195	33	33	9	128	269	2,095
	383	299	412	441	48	243	183	46	31	-67	132	302	2,588
	409	312	392	297	54	264	295	113	96	42	131	285	2,690
3 4 5	414	334	357	397	89	235	176	29	46	49	58	225	2,409
544. 6	369.	299	181	207	136	589	555	207	92	. 24	65	268	2,992
		335	248	327	178	607	431	233	190	46	128	340	3,481
7	418				90	568	487	225	61	76	94	213	6,143
8 9	1,378	1,455	1,211	285		279	263	228	75	51	117	317	2,892
9	370	338	539	174	142			225	74	25	340	916	3,230
10	407	330	234	126	146	247	159	223	74	23	340	210	
11	1,096	1,091	830	163	87	253	333	34	34	40	133	335	4,429
12	431	368	592	261	128	337	180	218	36	16	132	335	3,036
13	442	339	303	189	99	410	223	130	28	40	143	356	2,702
13 14	426	325	216	183	212	114	144	166	12	53	144	310	2,306
14	420	364	1,199	228	156	545	336	25	21	10	73	163	3,541
	8444	'Ann	0.40	070	. 226	299	159	125	36	47	161	391	2,595
16	324	299	248	270	236		89	49	23	68	124	267	3,792
17	451	480	1,557	510	54	121	267	27	9	22	159	326	3,177
18	433	331	286	301	207	810			16	11	126	287	2,602
19	404	304	354	458	102	253	216	71	28	9	114	225	1,889
20	383	309	218	96	83	206	163	54	28	9	1 14	223	
21	379	314	249	231	48	258	209	230	49	20	41	189	2,216
22	397	305	193	384	217	489	215	124	-57	15	135	286	2,819
23	409	325	245	340	57	286	187	30	- 46	23	129	298	2,370
	409	309	527	425	43	259	267	44	27	63	130	281	2,77
24 25	414	332	487	323	48	254	265	130	133	47	97	238	2,76
	30.	18.010	1.266	287	181	315	261	45	28	20	71	275	2,56
26	394	319	366	228	156	574	515	230	197	30	73	294	3,29
27	407	329	260		130	625	447	222	61	74	93	232	3,27
28	419	300	271	397		526	384	251	75	77	133	321	6,29
29	1,243	1,711	1,093	310	174		: 162	226	- 75	15	120	345	2,94
30	417	331	663	195	160	236	102	220	,,,	••			•
31	412	295	166	84	92	303	331	122					
Average	489	436	470	277	121	359	270	130	60	37	122	304	3,07

Table F-159 ESTIMATED MONTHLY ACCUMULATION OF SOLUBLE COPPER ON PADDY FIELD IN ARIS AREA UNDER THE CASE OF RUN 4

nit:	8/	

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annua
1			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						60	10	85	150	. —
2	271	211	126	111	48 -	171	120	23	22	7	80	169	1,358
3	250	199	253	253	30	156	116	31	22	42	84	192	1,628
4	270	209	244	174	33	168	187	70	58	29	84	182	1,707
5	275	226	225	229	52	146	109	21	32	33	39	142	1,530
6	244	201	. 121	121	80	350	341	128	56	16	45	171	1,874
7	277	225	165	188	104	359	269	148	121	31	86	223	2,195
8	822	850	703	168	54	341	303	:145	38	49	62	. 140	3,676
9	255	236	326	107	86	177	170	145	46	35	76	204	1,861
10	275	226	160	80	90	154	102	146	48	17	205	548	2,050
11	670	651	488	97	53	163	214	24	23	26	84	213	2,706
12 -	286	245	351	154	77	211	111	133	25	- 11	85	215	1,905
. 13	296	231	196	115	62	253	137	81	20	27	90	226	1,733
14	284	221	148	. 113	126	71	89	105	9	35	91	196	1,486
15	278	240	684	135	91	322	212	17	- 15	8	48	102	2,150
16	211	197	157	154	133	180	96	78	24	32	102	247	1,612
17	296	304	883	290	33	. 79	6l	34	17	42	78	170	2,285
. 18	287	223	184	174	121	472	167	19	7	15	97	201	1,968
. 19	260	199	218	261	62	161	131	49	12	8	79	179	1,619
20	253	210	149	61	53	131	105	41	21	6	72	[4]	1,242
21	248	- 210	161	138	- 31	165	130	143	33	14	32	123	1,428
22	262	: 205	129	222	124	291	135	77	36	10	86	183	1,760
23	273	220	166	199	36	181	115	- 21	31	17	80	186	1,526
24	262	205	317	244	27	166	169	30	19	40	82	179	1,739
25	274	224	296	189	29	162	168	80	81	33	62	151	1,749
26	262	215	225	166	105	194	164	- 33	20	: 13	48	174	1,619
27	269	221	172	133	92	342	316	142	120	20	51	188	2,065
28	278	202	178	228	77	369	278	142	39	49	63	153	2,054
29	741	998	634	183	-105	315	239	161	46	- 50	87	210	3,769
30	287	233	400	120	97	150	105	144	46	10	79	222	1,891
31	279	202	127	52	55	189	182	67		· ·		N. T.	
Average	317	281	286	162	72	219	168	83	38	24	78	193	1,921

Table F-160 ESTIMATED MONTHLY INFLOW OF WATER SOLUBLE COPPER INTO ARIS EXTENSION AREA UNDER THE CASE OF RUN 4

Unit:	g/ha
	0

41 ja												Unit:	g/ha
2 + 1 . 41 1 1 4 +	Jan.	Feb.	Mar.	Apr	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Amual
1									8	4	16	32	
2	83	.73	43	18	7	42	26	01	7	3	13	33	357
3	67	62	49	18	5	40	30	10	9	11	15	40	355
4 5	77	67	52	18	4	42	48	14	11	11	16	- 39	398
5	18	76	51	19	. 3	30	24	10	13	11	10	27	355
6	69	65	38	12	6	48	67	27	10	5	13	37	398
ž	81	74	51	13	8	46	61	38	30	10	21	58	489
8	110	87	68	19	8	53	68	38	8	14	14	31	518
9	86	90	52	19	13	43	49	37	9	12	17	48	474
10	87	80	56	18	12	34	30	39	13	6	24	73	471
5 ² H	115	90	. 55	11	8	46	60	9	7	7	15	46	471
12	84	76	43	18	10	48	24	24	. 8	4	16	50	405
13	90	78	51	17	11	52	28	18	. 9	8	16	50	429
14	84	74	51	19	14	15	19	24	5	10	16	41	372
15	78	70	42	15	8	43	54	5	. 7	3	10	17	352
16	54	58	35	8	6	31	17	17	8	10	19	54	318
. 17	81	70	46	14	. 4	23	23	12	7	8	14	36	339
18	84	71	46	14	13	. 51	40	8	- 4	5	14	36	385
19	64	57	39	13	- 11	42	25	19	5	3	12	34	324
20	72	72	52	13	10	33	31	20	9	3	13	24	352
21	67	67	43	18	7	43	32	30	10	5	13	28	363
22	74	66	40	17	7	41	35	17	9	4	16	40	364
23	82	75	58	21	5	43	23	9	11	8	13	35	382
24	70	63	49	17	4	43	43	10	8	10	15	37	369
25	79	74	51	20	4	41	42	15	16	13	11	30	396
26	76	72	42	14	.7	38	40	16	. 8	5	12	35	364
20 27	78	72	51	13	8	48	64	29	21	7	14	42	446
28	81	65	52	16	7	47	63	36	10	16	15	34	440
29 29	96	102	.59	21	14	47	52	42	9	14	. 19	55	529
30	97	90	64	20	14	36	31	35	8	4	17	54	469
31	88	70	44	9	7	43						<u>-</u> .	
Average	e 81	74	49	16	8	41	40	21	10	8	15	40	402

Table F-161 ESTIMATED MONTHLY INFLOW OF SOLUBLE COPPER CONTAINED IN SUSPENDED SOLID INTO ARIS EXTENSION AREA UNDER THE CASE OF RUN 4

ì	Un	it:	g/	ha
			D:	•

						, ,							. 4
	Jan.	Fcb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annua
ŀ					-				99	. 13	99	197	
2	380	305	182	173	52	277	218	34	33	9	95	235	1,992
3	355	295	417	421	32	244	195	48	32	70	99	263	2,472
4	381	308	393	281	36	267	315	116	98	44	98	244	2,580
5	385	330	355	377	59	241	184	30	47	51	44	179	2,282
6	344	295	177	194	. 93	.: 581	585	213	95	25	49	226	2,878
7	394	329	245	298	. 132	611	459	238	194	46	95	297	3,338
8	1,289	1,417	1,206	260	80	575	515	228	64	77	70	159	5,939
9	341	334	530	161	118	278	280	230	76	52	87	280	2,766
10	379	323	231	114	120	251	174	222	75	25	254	828	2.997
11	1,025	1,061	807	135	74	271	:356	34	34	39	99	300	4,235
12	404	360	569	231	106	346	196	214	36	16	99	301	2.877
13	417	330	291	166	82	426	238	128	28	39	110	324	2,578
14	399	315	208	159	169	121	160	163	. 12	52	112	275	2.145
15	396	354	1,144	197	134	574	363	23	21	10	55	122	3,392
16	292	292	240	231	237	329	167	123	35	45	128	361	2,479
17	421	462	1,485	425	48	129	96	47	23	63	92	227	3,518
18	407	319	270	253	195	857	291	27	9	20	131	296	3,074
19	380	291	330	382	95	266	240	. 73	15	10	94	254	2,43
20	358	305	216	89	66	214	179	55	29	8	85	179	1,783
21	352	306	240	200	42	267	234	227	48	19	30	158	2,12
22	373	301	189	363	147	502	241	129	57	14	101	250	2,669
23	379	321	248	325	39	287	199	31	48-	24	. 96	259	2,25
24	374	305	530	402	29	262	286	45	27	65	97	240	2,662
25	385	328	485	307	31	260	. 277	135	136	49	72	189	2,65
26	367	315	359	269	124	311	275	46	29	21	53	232	2,40
27	384	324	257	207	115	577	549	235	201	30	54	256	3,19
28	392	292	270	361	118	632	473	225	64	75	69	173	3,14
29	1,144	1,691	1,075	286	144	526	408	254	76	. 78	100	284	6,06
30	389	325	655	176	130	241	178	223	75	15	90	312	2,80
31	386	286	180	69	79	326	354	121					
Average	456	427	459	250	98	368	290	131	61	37	92	263	2,931

Table F-162 ESTIMATED MONTHLY ACCUMULATION OF SOLUBLE COPPER ON PADDY FIELD IN ARIS EXTENSION AREA UNDER THE CASE OF RUN 4

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annua
1									59	9	63	126	
2	254	208	124	105	32	175	135	24	22	6	60	147	1,292
3	232	196	256	242	20	156	124	32	. 23	45	62	167	1,555
4	252	206	245	164	22	170	200	71	60	30	62	155	1,638
5	256	223	223	218	34	149	114	22	33	34	29	113	1,450
6	227	198	118	114	55	. 346	358	132	58	. 16	34	145	1,802
7	261	222	163	171	77	361	286	152	123	31	64	195	2,105
. 8	770	827	700	153	48	345	320	147	40	50	46	104	3,551
9	235	233	320	99	72	177	181	147	47	35	57	181	1,782
10	256	222	158	72	73	157	112	143	48	17	153	495	1,907
11	627	633	474	80	45	175	229	24	23	25	63	191	2,588
12	268	240	337	137	64	217	121	130	24	11	63	193	1,805
13	279	224	188	101	51	263	146	80	21	26	69	206	1,654
14	266	214	142	98	100	75	99	103	.9	34	70	174	1,385
15	261	233	652	116	78	339	230	16	15	7	36	76	2,059
16	190	193	151	132	134	198	101	77	24	30	81	228	1,538
17	276	292	842	241	29	84	65	32	17	39	58	145	2,12
18	270	215	174	147	114	499	182	19	7	14	80	183	1,90.
19	244	191	203	217	58	170	146	50	11	7	59	159	1,51
20	236	207	147	56	41	136	116	41	21	6	54	112	1,17
21	231	205	156	120	27	170	146	141	32	13	24	103	1,36
22	246	202	126	210	85	299	- 152	80	36	10	64	159	1,66
23	254	217	168	191	24	181	122	22	32	18	60	162	1,45
24	244	202	318	230	18	168	181	30	19	42	61	153	1,66
25	255	221	295	180	[19	165	175	83	84	34	46	121	1,67
26	244	213.	221	156	72	192	173	34	20	14	35	147	1,52
27	254	218	169	121	68	344	337	145	122	20	38	164	2,00
28	260	197	177	207	68	373	295	143	41	50	47	114	1,97
29	682	986	623	169	87	315	253	163	47	50	65	186	3,62
30	267	228	395	108	79	152	115	142	46	10	59	201	1,80
31	260	196	123	43	47	203	194	67					
Average	295	275	280	147	58	225	180	83	39	24	59	167	1,83

Table F-163 ESTIMATED MONTHLY INFLOW OF WATER SOLUBLE COPPER INTO ADRIS AREA UNDER THE CASE OF RUN 4

	Jan.	Feb.	Mar,	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annua
1									8	4	11	25	_
2	72	66	41	19	7	38	25	9	7	3	9	26	322
3	58	57	47	19	5	36	29	9	8	11	11	33	32:
4	67	62	50	19	4	38	45	13	9	11	[1	31	360
5	70	69	50	20	3	28	23	9	11	11	7	20	32
6	60	60	36	13	6	43	63	25	9	6	9	29	36
7	70	67	49	13	7	41	57	36	28	10	15	47	44:
8	96	80	65	20	7	48	64	36	7	14	10	22	46
9	73	82	50	19	12	40	46	34	8	12	12	40	42
10	75	73	54	18	12	31	29	36	12	6	18	61	42
11	001	83	53	11	7	41	57	8	7	7	11	38	42
12	73	70	42	18	9	44	23	22	8	4	12	41	36:
13	78	71	48	17	10	47	27	17	9	8	12	42	38
14	74	68	48	19	13	14	18	22	5,	10	12	33	33.
15	68	64	40	15	7	38	52	5	6	4	7	12	31
16	44	53	33	9	5	28	16	16	8	10	15	46	28
17	71	64	43	15	4	21	22	11	7	9	10	28	30
18	73	65	44	14	11	45	38	7	4	6	11	30	34
19	56	52	37	13	10	38	23	17	5	3	9	27	29
20	63	66	50	14	9	30	29	18	8	3	. 9	18	31
21	58	61	41	18	6	38	30	28	10	6	9	22	32
22	65	60	38	18	7	37	33	15	8	4	11	32	32
23	71	68	56	22	5	39	22	8	9	8	. 9	29	34
24	60	58	47	18	4	39	41	9	7	10	11	30	33
25	68	68	50	21	4	37	40	14	15	12	. 8	22	35
26	66	66	41	14	7	34	37	14	7	5	8	28	32
27	68	66	49	13	8	43	60	27	19	7	10	34	40
28	70	60	49	16	6	42	59	34	9	- 16	11	24	39
29	81	93	56	21	13	44	49	38	9	14	14	45	47
30	85	82	62	20	13	33	. 30	32	8	4	12	45	42
31	77	64	42	10	6	39							-
\verage	70	67	47	17	8	37	37	20	9	8	11	32	36

Table F-164 ESTIMATED MONTHLY INFLOW OF SOLUBLE COPPER CONTAINED IN SUSPENDED SOLID INTO ADRIS AREA UNDER THE CASE OF RUN 4

Unit:	g/ha
Umit:	2/11/

to state	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
									95	15	71	154	•—
1 2	329	279	174	180	52	250	205	31	31	9	68	187	1,797
	308	270	403	437	32	222	188	43	29	7Ó	71	217	2,290
3	330	281	381	293	36	241	297	106	88	44	70	198	2,366
. 4		302	345	394	59	219	174	28	43	50	31	135	2,113
5	334	302	\$40	394	39	219	. 174	, 20	45	50	5.		
:6	299	270	171	206	. 93	526	549	199	. 88	26	35	180	2,641
7	342	301	236	300	128	555	431	223	180	48	68	243	3,056
8	1,120	1,293	1,155	265	72	520	488	215	56	78	50	114	5,425
9	288	305	508	165	109	259	262	212	70	52	62	229	2,521
10	330	295	222	117	112	228	167	207	69	27	184	689	2,648
	903	970	775	141	68	241	335	31	32	. 40	72	248	3,845
11	892			240	98	311	185	198	34	18	71	250	2,637
12	352	329	552			381	229	120	27	41	81	271	2,335
13	362	301	277	168	76	.561 109	146	151	12	53	83	225	1,933
14	348	288	198	162	159 122	513	345	21	19	11	39	87	3,114
. 15	344	323	1,088	201	122	313	343	21	17	•••	,		
16	242	267	227	238	205	299	156	114	33	47	97	304	2,230
17	367	422	1,411	436	44	115	92	43	- 22	66	66	179	3,262
18	356	292	259	260	173	760	276	25	8	21	102	244	2,776
19	331	265	311	380	84	237	224	66	15	11	68	205	2,198
20	311	279	208	95	62	195	168	51	26	9	62	135	1,601
		200	220	204	38	237	220	211	46	21	22	124	1,935
21	303	280	228		147	454	227	117	54	16	. 72	199	2,444
22	324	275	181	379		260	192	28	43	24	69	214	2,068
23	328	293	240	337	39	237	269	42	24	66	69	195	2,460
24	324	279	513	419	. 29		262	124	125	48	52	143	2,440
25	334	300	471	321	31	236	202	1 24	12.7	-10	02		
26	319	288	346	287	124	282	258	43	27	22	38	184	2,21
27	333	296	248	209	112	524	515	221	187	31	39	210	2,92
28	341	267	258	369	106	571	449	211	56	76	50	123	2,87
28 29	966	1,547	1,030	293	134	488	383	234	70	. 79	71	232	5,52
	339	297	630	181	121	218	171	208	70	16	65	259	2,57
30	. 339	271	0.0	:101									
31	335	262	173	72	72	289	333	110					
Average	394	391	441	258	91	333	273	121	56	38	67	213	2,67

Table F-165 ESTIMATED MONTHLY ACCUMULATION OF SOLUBLE COPPER ON PADDY FIELD IN ADRIS AREA UNDER THE CASE OF RUN 4

,	Jan.	Feb.	Mar,	Apr.	May	June	July	Aug.	Sept.	Oct	Nov.	Dec.	Annua
ı									57	10	45	99	
. 2.	221	190	118	110	32	158	127	22	2i	7	43	117	1,165
3	201	- 180	248	251	20	142	119	29	20	44	45	137	1,437
4	218	189	237	171	22	154	188	66	53	30	45	126	1,499
5	222	204	217	228	34	136	108	20	30	34	21	85	1,339
: 6	197	181	114	121	55	313	336	123	53	17	24	115	1,65
7	227	202	157	172	74	328	269	142	114	32	46	160	1,92
. 8	669	755	671	157	43	312	304	138	35	5 i	33	75	3,24
9	198	213	307	101	67	164	170	135	43	35	41	148	1,622
10	223	203	152	74	68	142	108	134	45	18	: ÎĤ	413	1,690
11	546	579	456	84	41	155	216	21	21	26	46	157	2,348
12	234	219	327	142	59	195	114	121	23	, 12	45	160	1,65
13	242	205	179	102	48	235	141	75	20	27	51	172	1,49
14	232	196	135	99	94	67	90	96	9	35	52	142	1,247
15	227	213	620	119	71	303	218	14	14	8	26	54	1,88
16	157	176	143	136	116	180	95	72	22	31	62	192	1,38
17	241	267	800	248	26	74	62	30	16	41	42	114	1,96
18	236	196	166	151	101	443	173	18	7	15	62	151	1,718
19	213	174	191	216	52	151	136	46	11	8	42	128	1,36
20	206	190	142	60	39	124	108	38	19	7	39	84	1,05
21	198	187	148	122	25	152	138	131	31	15	17	80	1,24
22	214	184	120	219	85	270	143	73	34	li	46	127	1,52
23	219	199	163	197	24	165	118	20	29	18	43	134	1,32
24	211	185	308	241	18	152	170	28	17	42	44	124	1,54
25	221	203	286	188	19	150	166	76	77	33	33	91	1,542
26	212	195	213	166	72	174	162	32	19	15	25	117	1,40
27	220	199	163	122	66	312	316	136	113	21	27	135	1,83
28	226	180	169	212	61	338	279	135	36	51	33	81	1,800
29	576	902	598	173	81	292	238	150	43	51	47	152	3,30.
30	233	208	381	111	74	138	110	132	43	11	43	167	1,650
31	227	179	119	45	43	180	183	61				19 % (I) 19 11 11	
verage	255	252	268	151	54	203	170	77	36	25	43	135	1,670

Table F-166 ESTIMATED MONTHLY INFLOW OF WATER SOLUBLE COPPER INTO LARIS AREA UNDER THE CASE OF RUN 4

2,32					<u></u>								
	Jan.	Feb.	Mar.	Δpr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
: 1			4						9	5	16	32	
2	. 83	73	43	18	6	41	26	10	7	3	13	.32	355
3	- 67	62	49	- 18	4	39	31	10	-9	11	15	40	355
4	-77	. 67	-52	-17	3	42	48	14	10	11	16	38	398
5	81	76	52	19	3	30	24	10	13	12	10	27	356
6	70	65	38	12	5	47	68	28	10	. 6	13	37	399
7	80	74	51	12	- 6	45	62	39	31	. 11	22	57	490
8	110	88	68	18	6	52	69	39	8	15	14	32	519
- 9	86	91	53	18	10	43	49	37	9	13	17	48	473
10	87	80	57	17	10	34	30	40	14	6	25	72	471
. 11	115	91	56	10	6	45	61	9	7	8	16	46	471
12	84	77	44	17	- 8	47	24	24 .	: 9	4	17	49	404
13	90	79	51	- 16	9	50	29	19	10	9	17	49	427
14	84	75	51	18	11	15	19	- 25	5	- 11	17	40	369
15	78	71	42	-14	7	42	55	5	7	4	10	17	351
16	53	59	35	8	5	30	17	18	8	11	19	53	318
17	81	- 71	46	14	4	23	23	13	7	10	14	35	340
18	84	72	46	13	10	49	40	8	4	6	14	35	383
19	64	57	39	. 12	. 9	41	24	19	6	3	13	33	321
20	72	72	52	13	8	33	31	20	. 9	3	13	25	351
21	67	67	43	17	6	42	32	31	19	5	9	38	375
22	74	66	40	17	6	40	34	17	9	5	16	39	363
23	82	75	58	21	4	42	23	9	10	9	13	35	381
24	69	63	49	:17	- 3	42	43	10	8	11	15	37	369
25	79	74	52	19	3	41	43	16	16	. 13	12	30	397
26	77	- 72	43	14	6	37	40	16	8	5	12	35	364
27	78	72	51	- 12	. 7	47	64	29	21	8	14	42	446
28	80	65	52	15	5	46	63	37	10	17	16	35	442
29 29	96	102	- 59	20	111	47	53	42	10	15	20	54	528
30	97	90	64	19	11	36	31	36	9	4	18	53	468
31	88	71	45	9	6	42							
Average	81	74	49	15	7	40	39	21	10	8	15	40	400

Table F-167 ESTIMATED MONTHLY INFLOW OF SOLUBLE COPPER CONTAINED IN SUSPENDED SOLID INTO LARIS AREA UNDER THE CASE OF RUN 4

Onk: K/#	/ha	2/	Unit:
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	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annua
									104	15	102	196	
2	378	306	183	168	44	272	216	34	34	10	98	232	1,975
3	355	295	419	409	27	242	200	48	32	74	101	263	2,463
4	380	308	397	274	30	264	317	117	98	46	101	243	2,575
5	384	331	359	369	49	241	187	30	47	54	45	181	2,276
6	345	296	179	194	79	568	587	216	96	27	50	227	2,865
7	393	330	247	278	110	602	461	243	198	51	98	295	3,306
8	1,285	1,422	1,208	246	64	568	522	234	62	83	72	163	5,931
9	339	335	534	154	96	277	282	234	77	56	89	277	2,751
10	380	325	232	109	98	248	176	229	76	28	263	820	2,983
11	1,024	1,069	817	129	60	264	359	34	35	44	103	297	4,233
12	403	362	578	223	86	335	197	220	37	18	:102	298	2,860
! 13	415	332	292	155	67	413	242	133	30	44	112	319	2,554
14	398	317	208	150	139	115	156	168	13	58	114	272	2,10
15	395	356	1,146	185	108	559	367	24	21	11	56	125	3,35
16	291	295	240	220	188	322	169	127	37	50	130	354	2,42
17	420	467	1,490	401	39	126	97	49	24	72	95	225	3,50
18	408	323	273	239	156	825	292	· 28	9	23	131	291	2,999
19	379	293	331	349	76	261	237	73	17	12	97	251	2,370
20	358	306	217	89	54	210	178	56	29	10	88	181	1,77
21	352	308	242	189	34	259	232	234	90	19	20	216	2,19
22	372	302	190	355	124	494	239	127	59	17	104	246	2,62
23	379	321	249	315	33	284	203	31	47	25	- 99	259	2,24
24	373	305	534	392	24	259	288	46	27	69	99	240	2,65
25	384	329	491	300	26	260	282	136	137	52 ·	74	191	2,66
26	368	316	363	269	105	304	276	47	29	23	54	233	2,38
27	382	325	259	193	96	569	552	241	205	33	56	255	3,16:
28	391	293	270	342	94	445	480	230	63	81	71	178	2,93
29	1,138	1,700	1,081	274	118	524	412	258	77	84	102	280	6,049
30	389	326	659	168	106	238	180	230	77	17	93	308	2,79
31	385	289	183	66	64	316	356	123					
Average	455	429	462	240	80	355	291	133	63	40	94	264	2,90

Table F-168 ESTIMATED MONTHLY ACCUMULATION OF SOLUBLE COPPER ON PADDY FIELD IN LARIS AREA UNDER THE CASE OF RUN 4

	Į.	Init	: g/	ha
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and the second second													
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1		:	,						62	11	65	126	
2	253	208	124	102	27	172	133	24	23	7	61	145	1,282
3	232	196	257	235	17	155	127	32	22	47	64	166	1,550
	251	207	247	160	18	168	201	72	60	32	64	155	1,635
4	256	224	226	213	28	149	116	22	33	36	30	114	1,448
5	230	2.24	220	213	. 20	149	110	22	,13	.30	50		.,
6	228	199	120	113	46	338	360	134	58	18	35	145	1,795
7	260	222	164	160	64	356	- 288	155	126	34	66	194	2,088
. 8	767	830	702	145	39	341	325	150	39	54	47	107	3,547
9	234	234	322	94	- 59	176	182	149	47	38	59	179	1,773
10	256	223	159	69	60	155	113	148	49	19	158	490	1,900
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	707	630	480	76	37	170	231	24	24	28	65	188	2,587
11	627	638		132	. 52	210	121	135	25	12	65	191	1,795
12	268	241	342					83	21	29	71	203	1,639
13	278	226	188	94	42	255	149			36	. 72	172	1,362
14	265	216	142	92	82	72	96	160	10		37	78	2,038
15	-260	235	654	110	63	330	232	16	15	8	31	70 .	2,030
16	190	195	152	125	106	194	102	80	25	34	82	224	1,507
17	276	295	845	228	23	82	66	34	17	45	60	143	2,115
18	270	217	176	139	91	481	183	- 20	7	16	80	179	1,860
	244	193	203	199	47	166	144	51	12	8	61	156	1,483
19	236	208	148	56	34	133	115	42	21	7	. 56	113	1,169
20	230	200	140	50		10.0	- : :		-				
21	230	206	157	113	22	165	145	146	60	113	16	140	1,413
22	245	202	127	204	71	293	150	79	37	12	66	157	1,644
23	253	218	169	185	20	179	125	22	- 32	19	62	162	1,445
	243	203	321	225	15	166	182	31	19	44	.63	153	1,664
24 25	243 . 255	222	298	176	16	165	178	83	84	36	47	122	1,682
2.3	2,00		. ~								26	148	1,513
26	245	214	223	155	61	188	174	34	20	15	36	163	1,986
27	253	218	171	.113	56	339	339	149	124	22	39		1,859
28	259	197	177	196	55	270	299	.147	40	54	48	117	
29	679	991	627	161	. 71	314	255	165	48	54	67	184	3,618
30	268	229	398	103	65	150	116	146	47	12	61	199	1,793
31	260	198	125	41	38	197	196	68					<u>.</u>
Average	295	277	281	141	48	218	181	85	40	27	60	167	1,819

Table F-169 ESTIMATED AVERAGE MONTHLY ACCUMULATION OF SUS-PENDED SOLID AND TOTAL COPPER CONTAINED IN SUS-PENDED SOLID UNDER THE CASES OF RUN 1 AND RUN 4

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
(1) Suspende	ed Solid t	ınder the	Case of	Run I (k	g/ha)			2					
ARIS	1,251	892	734	904	268	1,076	1,220	390	117	131	543	991	8.818
ARIS-Ex	1,167	874	719	818	214	1,105	1,310	677	117	138	423	864	8,427
ADRIS	1.011	799	690	844	201	997	1,237	627	108	139	308	697	7,659
LARIS	1,165	878	724	785	176	1,084	1,318	709	124	144	414	860	8,381
(2) Suspend	led Solid	under the	Case of	Run 4 (k	g/ha)								a the second
							21	4111	F	4.1	1776	Alteria	4. <u>4. 1. 1.</u> 2.
ARIS	1,545	1,327	1,574	995	416	1,668	1,231	619	300	171	591	1,038	11,476
ARIS-Ex	1,441	: 1,300	1,537	901	335	1,710	1,322	623	305	171	446	899	10,989
ADRIS	1,247	1,188	1,474	929	314	1,544	1,247	578	282	176	323	726	10,026
LARIS	1,439	1,306	1,547	864	275	1,646	1,330	636	317	187	456	901	10,902
(3) Total Co	pper Con	tained in	Suspende	d Solid	under th	e Case o	f Run I (g/ha)			1994 1994 1994		
ARIS	752	552	453	522	159	486	530	296	54	59	236	577	4,675
ARIS-Ex	701	541	444	473	127	499	569	290	54	62	183	503	4,447
ADRIS	608	495	426	488	119	451	537	269	50	63	133	406	4,043
LARIS	700	544	447	453	104	490	572	304	57	65	180	500	4,417
1311113	700	5,,,									1.7		
(4) Total Co	opper Cor	itained in	Suspend	ed Solid	under ti	ne Case o	of Run 4	(g/ha)	1.	. 4 1	10.00		
ARIS	925	804	927	575	243	729	545	271	129	76	259	606	6,087
	863	737	905	520	196	748	- 585	273	131	76	195	525	5,803
ARIN-FY	000		4.5		100	675	552	253	121	78	141	424	5,297
ARIS-Ex ADRIS	746	719	. 868	536	183	0/3	1.12	2.1.3	121		141	74.7	3.277

Remarks; ARIS-Ex: ARIS Extension Area

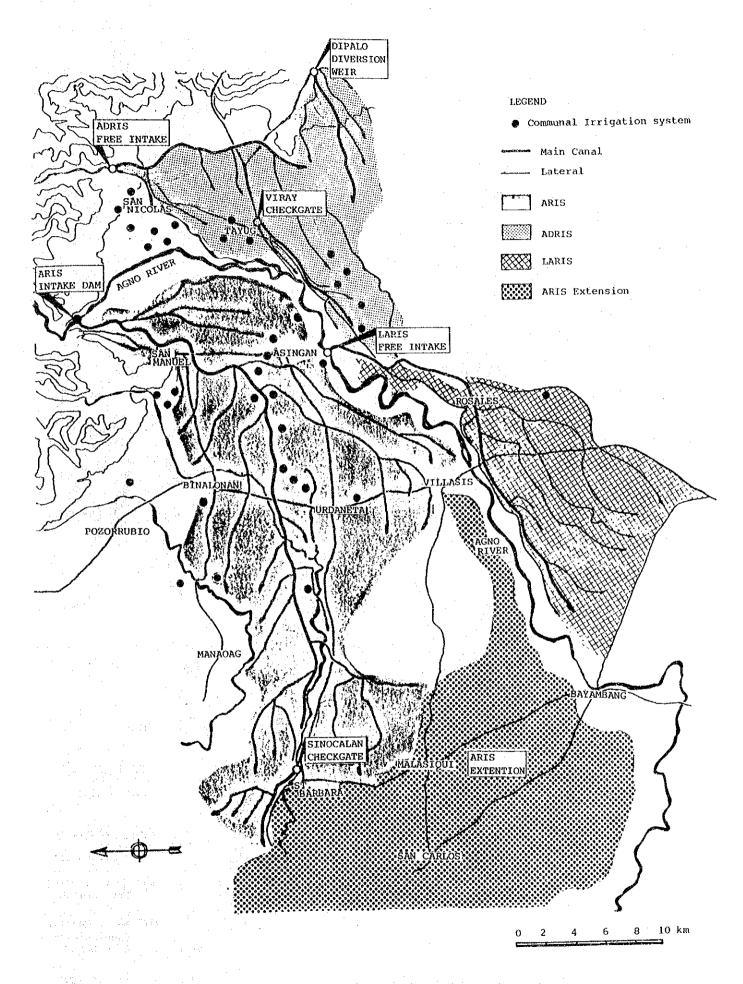
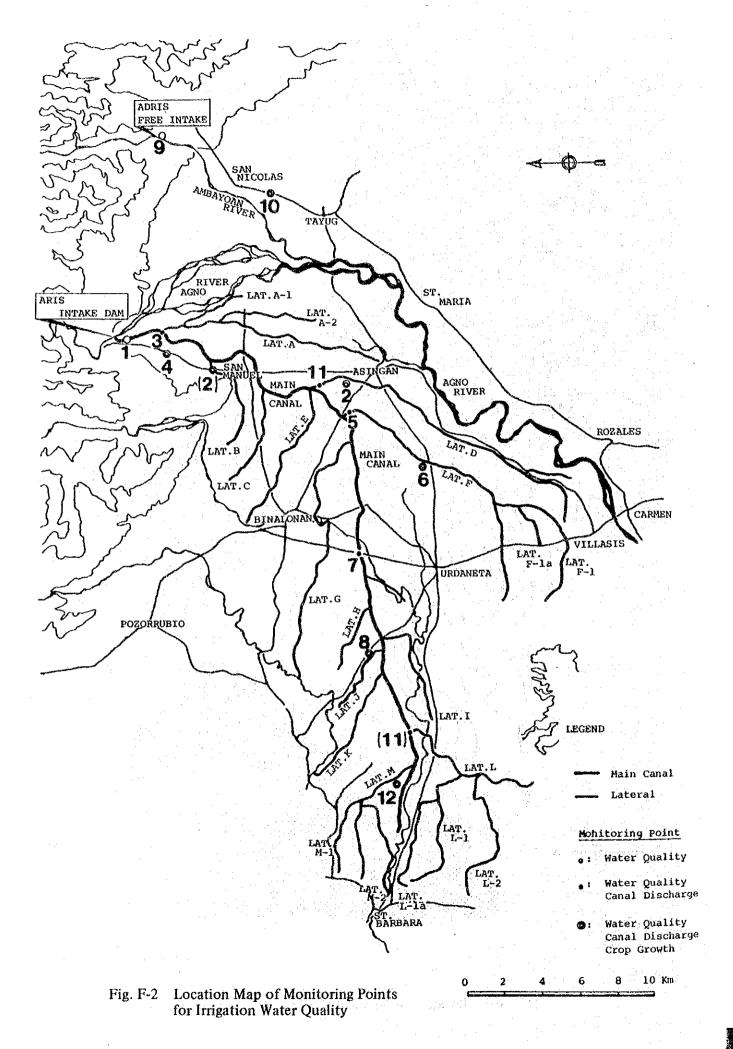
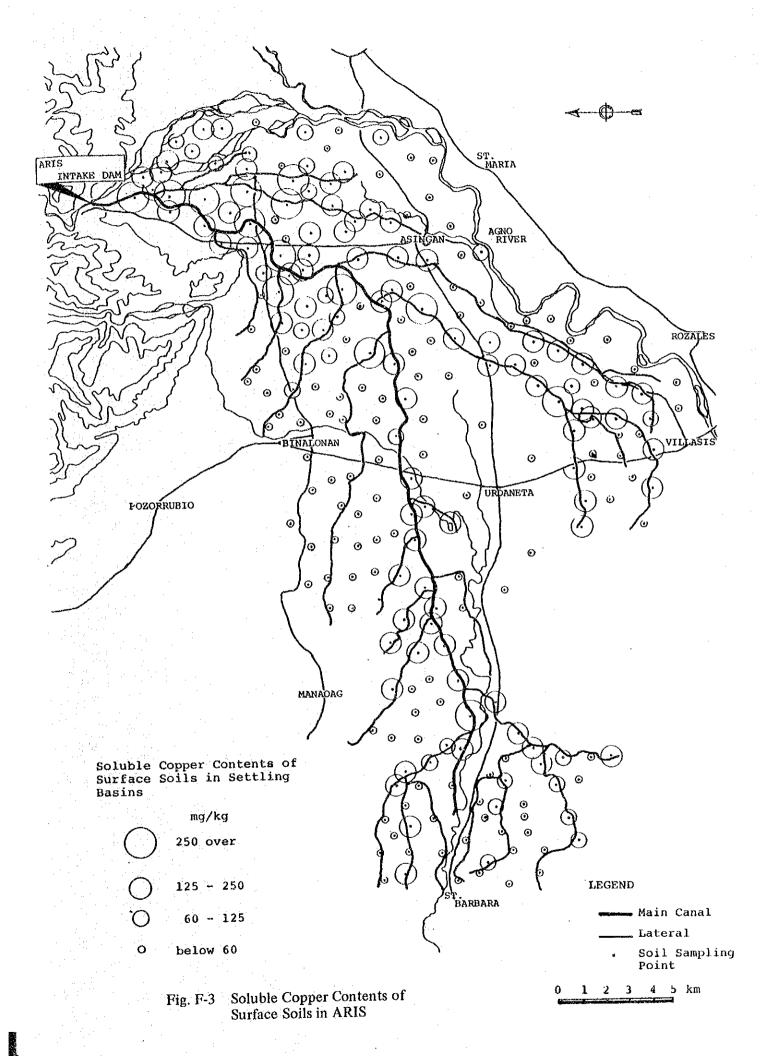


Fig. F-1 Location of NIA and Communal Irrigation System





資料G Agno川流域における鉱山活動

資料 G Agno 川流域における鉱山活動

1.	Philex社のSto. Tomas I 鉱山	~-> G − 1
2.	Benguet 社の金山 ·······	G - 2
3.	Itogon — Suyoc社の Itogon 鉱山	G - 3
4.	Baguio Gold社のSto Niño 鉱山	G - 4

資料 G Agno 川流域における鉱山活動

Cordillera Central 山地の南域は、比国の最も重要な鉱山地帯であり、多数の銅および 金鉱山が分布している。これらのうち Agno 川流域に位置する鉱山を次の表に示す。

Mining company	Mine	Principal Commodity	Location
Philex Mining Corp.	Sto. Tomas II	Cu	Tuba Itogon, Benguet
Benguet Corp.	Асирап	Au	Itogon, Benguet
	Antamok	Au	- ditto -
	Baco	Au	- ditto -
	Kelly	Au	– ditto –
Itogon-Suyoc Mines Inc.	Itogon	Au	Itogon, Benguet
Baguio Gold Mining Co.	St. Niño	Cu	Tublay, Benguet (closed in 1982)

以下選鉱および廃さい処理を中心にこれら鉱山の概要を述べる。

(1) Philex社のSto. Tomas I 鉱山

本鉱山はBaguio市の南方約20㎞にあり、Baguio市から良く整備された鉱山道路により達することが出来る。

鉱山は1958年に操業開始以来徐々に生産規模を拡大し、現在は25,000~27,000 t/day の操業を行っており、過去2か年の操業実績は次の通りである。

年	出鉱量	粗鉱	品位	選鉱技	采収率	精鉱中	金属量
	10°DMT	C u %	Aug/t	Cu %	Au %	Cu ^t	Au kg
1982	9635	0.268	0.466	8 7.1 4	8 4.0 5	2 3,1 4 6	4229
1983	9132	0.265	0.468	8190	8 5.9 4	21,432	4288

745m地並に選鉱場を新設する計画は中止され、代って 1985年 9 月までに現選鉱場を 5,000 t/day拡大し、 32,000 t/day として操業する増産計画が進められている。

1983年12月末現在の鉱量計算は次の様であり,

· · · · · · · · · · · · · · · · · · ·	Си %	Au g∕t
$\times 10^3 \mathrm{DMT}$		
Above 1020ML(確推計) 75,909	0.3 0	0.62
Below 1020 ML (") 109,917	0.32	0.596
185,826	0.31	0.6 0 6
Broken Ore Reservs 22,435	0.2 6 5	0.468
合 計 208,261	0.31	0.5 9

これから計算される鉱山寿命は18年強である。

Sto. Tomas I 鉱床は、ポーフィリカッパー型の鉱床で主に黄銅鉱よりなる銅鉱石は、 プロックケービング法によって坑内採掘されている。

Philex社の選鉱場は Banget 選鉱場と称され 27,000 t/day の規模をもち、浮遊選鉱法により銅精鉱を生産している。

粗鉱は3段のクラッシャーにより砕かれ、ミルによって-200メッシュ 50 免程度まで 磨鉱される。磨鉱は主浮選回路に送られ粗選され、粗精鉱は清掃浮選によって最終精鉱に 仕上げられる。一方1次クラッシャーで分離されたスライムは金回収回路に送られた後、 主回路と同様に浮選にかけられ銅精鉱が回収される。

主回路とスライム回路から得られた銅精鉱は精鉱サイクロンに送られ、サイクロンオーバフローはシックナーに送られる。シックナーアンダフローとサイクロンアンダフローはドラムフィルターで銅精鉱ケーキに仕上げられる。銅精鉱ケーキの品位は、Cu 24~30% Au 35~50g/t, Ag 55~60g/t である。

主要な選鉱試薬は次の通りであり

捕集剤 Sodium Isobutyl Xanthate

 $20\sim35g/Ton Ore$

起泡剤 Serabon MF 605

10~30 g ∕ Ton Ore

Repotorth

10~30g/Ton Ore

石 尿

100~175g/Ton Ore

又, 選鉱用水は処理鉱量 t 当り3~4 m を要するとされている。

Philex社はAlbian 川に第1廃さいダム、Manaa 川に第2廃さいダムを造り選鉱廃さいを収容している。これらのダムは外盛り式で廃さい自身を蒿上に利用している。即ち選鉱場から送られて来た廃さいはダム堤体上に設備したサイクロンによって約40%の粗粒砂と60%のスライムに分級され、粗粒砂は下流側に嵩上材料として送られ、スライムは貯泥池の中に送られている。

上流に降る雨水を流す切替水路が設けられており、又ダム内の水は暗渠、取水塔、余水 吐によって排水されている。

第1廃さいダムは1972年に投入を開始し、その設計規模60×10⁶ DMTの95%が既に埋立られ、現在規模を約10%増す工事を実施中である。第2廃さいダムは1981年から投入されており、その設計規模50×10⁶ DMTの40%強が既に埋立でられている。

(2) Benguet 社の金山

1906年からAcupan鉱山、1933年からAntamok 鉱山の採掘を行っている。又、1980年には隣接するAtok Big Wedge 社の鉱山を継承し、Baco 鉱山として操業を始めており、更に1981年に新たにKelly 鉱山の生産を開始した。これらの鉱山はいずれ

も Baguio 市の東方 Ambalanga 川の流域にあり、Baguio 市から舗装道路が伸びている。 4 鉱山はいずれも含金粘土石英脈を坑内採掘しており、鉱石は運搬坑道で運ばれ3250 t/dayの規模をもつ Balatoc 選鉱場によって集中的に処理されている。

過去2か年の操業実績は次の通りである。

年 出鉱量	粗鉱品位	採収率	粗金中	金属量
10°DMT	Au g/t	%	Au 1080z	Ag 10 ³ O z
1982	3.66	8 4	110	104
1983 1151	3.8 8	8 6	124	116

1983年12月末現在の鉱量計算は

. 4, 5 .	:	1 0 3 D M T	Au g∕t
確打	隹 計	1,6 4 8	5.8 5
予	想	1,7 5 3	5.3 0
小	計	3.4 0 1	5.5 7 -
期	待	1 1,8 0 0	3.0
合	計	1 5,2 0 1	3.6

で、これから計算される鉱山寿命は約13年である。

Balatoc 工場では青化法により粗金を生産している。

粗鉱は1次~3次クラッシャーとボールミルによって-200メッシュ75%程度まで磨鉱される。金の溶出はボールミルの段階から始まるが、更にシックナーとアジテーター中において進行する。金ーシアン溶液は、標準型シックナーと逆流デカンテーション型シックナーによって騰さいと分離された後フィルターによって浄化される。そして亜鉛粉末によって洗酸させられた金は、乾燥された後精錬され、純度500~600の粗金に仕上げられる。

主要な選鉱試薬は次の通りである。

 青化ソーダ
 0.8~1.0 kg/Ton Ore

 石 灰
 5.0~5.2 kg/Ton Ore

 亜鉛粉末
 0.0 8 kg/Ton Ore

又, 選鉱用水は処理鉱量 t当り7~8 m²を要し, そのうちの75~80%がリサイクルによってまかなわれている。

廃さいは粗粒部分約30%が坑内充塡用に回収され残りが廃さいダムに収容される。除さいダムは第1次ダムが1977年に堆積を終了しており、現在はその直下に設けられた第2次ダムを使用している。上流ダムと切替水路によって上流側の水は切替えられており、

又, 浸透水は暗渠によって, 上澄水は取水塔を通して, 川に放流されている。 なお第2次ダムの設計規模は6×10° DMT 強であり, 現在までにその67%が埋立て られている。

(3) Itogon - Suyoc社の Itogon 鉱山

Itogon 鉱山はBenguet 社のAcupan 鉱山の東に接しており、Baguio 市からItogonを経由する道路によって達することが出来る。

本鉱山は1926年に操業を開始し、1975~1976年には320 t/dayまで操業を伸ばしたが、その後1時減産していた。近年は次の操業実績の様に300 t/day 弱の操業を行って来たが、1984年第4.4半期から350 t/dayに増産された。

年	出鉱量	粗鉱品位	選鉱採収率	粗金中	·金属量
	DMT	Aug/t	В	Au Oz	Ag Oz
1982	1 0 4,4 4 3	4.7 1	8 7	13742	5747
1983	1 0 4,0 8 3	4.6 6	8 7	1 3 5 8 7	5 3 1 6

1983年12月末現在の鉱量計算は次の様であり

	t	Aug/t
Immediately available (確推予計)	1 2 4,1 5 4	4.3 9
not Immediately available ("	9 4 3,2 9 8	4.1 6
## 	1 0 6 7,4 5 2	4.19

これから計算される鉱山寿命は約8年半である。

粗鉱は1次~3次クラッシャーとボールミルによって磨鉱され、シックナーとアジテーターによって金が溶出される。金ーシアン溶液はシックナーオーバーフローとして溶液タンクに導かれ、浄化され、金が沈澱され、最後に精錬され粗金が作られる。

主要な選鉱試薬は次の通りであり

又,選鉱用水は $1100 \, m$ $/ \, day$ (処理鉱量 $\, t \, = \, 0.3 \, 7 \, m^3$) を使用しており乾季には $600 \, m^3 / \, day$ 程度をシャクナーで回収し、リサイクルしている。

廃さいは下流に設けられた第6沈澱池に収容している。

(4) Baguio Gold 社のSto. Niño 鉱山

本鉱山はBaguio 市の北東方Tublay にあり、Baguio 市からMountain Trailを経由

してKM21に達し、そこから鉱山道路により鉱山に至る。

鉱山は1972年にPhilex社の技術陣によって操業が開始され、3,300 t/dayの操業を行っていたが、1982年に閉山した、現在は排出水処理等は行われていない。

Sto. Niño 鉱山には、Southwest 鉱体とUlman 鉱体の2つのポーフィリーカッパ型の銅鉱床があり、主としてSouthwest 鉱体が露天掘によって採掘され浮遊選鉱法によって銅精鉱を生産していた。

資料H Electroconultによるダム計画概要

資料 H Electroconult によるダム計画概要

San Roque ダムは次の 4項目を目的とする多目的プロジェクトである。

発電

毎年7800wh の1次発電と4340whまでの2次発電を計画している。既存高圧送電線がダム計画位置から9㎞の地点を走っており、大消費地マニラ首都圏の電力供給に寄与するとされている。

港 溉

Pangasinan 平野では雨期に平野に降る雨水を利用して、米および若干のサトウキビの1期作を実施しているのが現状であり、本多目的ダムによって乾期にもかんがい用水が得られると、52,500~87,000~クタールの地域において、2期作または2毛作が可能になるとされている。

水質保全

ダムが設置されると、ダム集水域に位置する鉱山の廃さいが、全て捕捉されるので水質が 改善されるとされている。

洪水調節

現状ではPangasinan 平野は周期的に起きる洪水になやまされているが、洪水調節機能をもつサンロケダムが完成するとその被害がなくなるとされている。

ELCによって策定されたダムの基本設計は次の通りである。

水	•		文

集水面積

平均流入量

設計洪水量

 $1.2 \, 50 \, km^2$

 $94.2 \text{ m}^3/\text{s}$

 $12.800 \,\mathrm{m}^3/\mathrm{s}$

貯水池

総貯水量

有効貯水量

洪水調整容量

常時満水位(海抜)

常時低水位(")

 990×10^{6} m³

670×10⁶ m³

150×106 m3

290 m

 $2\ 2\ 5\ m$

<u>y</u> <u>L</u>

ダム型式

ダム堤頂高さ 210 m

グラベルフィル

ダム堤頂標髙(海抜) 307 m

ダム堤長さ 1130 m

タム堤体容積 4 3.1 5×1 0⁶ m³

余 水 吐

余水吐型式 オープンシュート

余水吐能力 15,600 m³/s

発 電

発電能力(最大) , 130×3 MW

1 次発電量 780 GWh/年

2 次発電量 377~434 GWh/年

かんがい

用水取入口型式 パラレル

用水取入口土台高さ(海抜) 95 m

用水取入能力 290 m³/s

かんがい面積(最大) 87,000 ha

上記の設計によりダムを建設するに要する総投資額は505百万US\$, 次の条件におけるIRRは16.7%と見積られている。

常時満水位(海抜) 290 m

発電設備能力(最大) 130×3 MW

資料 | フィリピンの鉱害防止に関する 行政体系および法規

資料[

フィリピンの鉱害防止に関する行政体系および法規

1. 行政体系

1977年公布の大統領令第1121号に基づき「国家環境保護審議会」(National Environmental Council)が鉱害を含む環境行政の最高機関となり、その下部機関として「国家公害規制委員会」(National Pollution Control Commission) が設置された。

2 法 規

鉱山活動は1974年公布の大統領令第463号「鉱物資源開発令」(Mineral Resources Development Decree of 1994) および「鉱物資源開発令施行規則」(consolidated Mines Administrative Order, rules and regulation implementing P.D. Na 463)によって規定されている。鉱害に関しては施行規則第42条-B「鉱業地域における環境保護」に詳細規定しており、選鉱廃さいの処理に関しては次の様に定められている。

Mill Waste and Tailings Disposal and Water Conservation

- 1) All mine/quarry operators are prohibited from directly or indirectly disposing tailings or mill waste into natural drainage systems including rivers and tributaries.
- 2) Impounding of mill tailings shall be far from water-shed areas and free from spillage, slides and/or washing-away of tailings by surface run-off during heavy rains into drainage systems, creeks or rivers. Flushing of tailings is likewise prohibited.
- 3) All mine tailings-covered areas if found not suitable for agricultural, industrial or commercial use must first be resoiled, cover-cropped, or reforested.
- 4) Mill effluents shall be treated such that obnoxious odor and poisonous chemicals are removed before disposal.
- 5) Mining companies shall at all times conserve water by recyling, developing and maintaining watershed areas, by reforestation and afforestation, and by constructing water reservoirs for domestic, industrial or aqua culture uses.

また、フィリピンの水質基準については、「1978年国家公害規制委員会規則」(1978 NPCC Rules and Regulation) の第3章に詳細規定してある。この規則によれば、地表水は次の6クラスに区分されており、Agno川は現時点では上流部はクラスC、下流部はクラスDに分類されている。

クラスAA 公共用水,消毒のみで飲料基準に合致する。

- クラスΑ 公共用水、完全処理によって飲料水基準に合致する。
- クラスB 水浴などのリクリエーションに適する。
- クラスC 魚その他の水産資源の養殖に適する。
- クラスD 農業,灌漑,家畜への給水,工業用水に適する。
- クラスE 水運に利用する。

灌漑用水(クラスD)の水質基準を次に示す。

For Class "D"

Waters

	· ·	·
	Quality Parameter	Specifications
1.	Temperature	The maximum rise above natural
		temperature shall not exceed
		3°C outside the mixing zone as
		determined by the Commission
2.	Dissolved Oxygen	Not less than 3 mg/l.
3.	Transparency	Secchi disk shall be visible at
	•	a minimum depth of 1 m.
4.	Total Dissolved	Not more than 1000 mg/l.
	Solids	
5.	рН	Not less than 6.0 nor greater
		than 8.5.
6.	Trace Elements	Not to exceed the following
		limits:
	Aluminum	5.0 mg / 1
	Arsenic	0.1 mg/1
	Beryllium	0.0 1 mg / 1
	Boron	0.7 5 mg / 1
	Cadmium	0.0 1 mg / 1
	Chromium	0.1 0 mg / 1
	Cobalt .	0.0 5 mg / I
	Copper	0.20 mg / 1
	Fluoride	1.0 mg / I
	Iron	5.0 mg / 1
	Lead	5.0 mg / 1

Lithium

 $2.5 \,\mathrm{mg} \, \diagup 1$

Recommended maximum concentration for irrigating citrus is $0.075\,\mathrm{mg/l}$)

Manganese

 $-0.20\,\mathrm{mg}/1$

Molybdenum

 $0.0 \ 1 \ mg / 1$

Nickel

 $0.2\,\mathrm{mg}/1$

Selenium

0.0 2 mg/l

Vanadium

0.1 mg / l

Zinc

 $2.0\,\mathrm{mg}/1$

7. Sodium Absorption

Ration (SAR)

Not less than 8 nor more than 18.

8. Organic Chemicals

Oil and Grease

 $5 \,\mathrm{mg} \, / \,\mathrm{l}$

9. Nutrients

Shall not be present in amounts to cause deleterious or abnormal biotic growth.

資料 J インプレメンティング アレンジメント

資料リ インプレメンティング アレンジメント

IMPLEMENTING ARRANGEMENT ON THE TECHNICAL COOPERATION
BETWEEN THE JAPAN INTERNATIONAL COOPERATION AGENCY
AND THE PHILIPPINE AUTHORITIES CONCERNED FOR THE
RE-STUDY OF THE SAN ROQUE MULTI-PURPOSE PROJECT
AGREED BETWEEN

THE JAPAN INTERNATIONAL COOPERATION AGENCY AND

THE PHILIPPINE AUTHORITIES CONCERNED

October 21, 1983

(Sgd.)

MICHIMOTO GOTO

Team Leader

Preliminary Survey Team

Japan International Cooperation

Agency

(Sgd.)

JOSE U. JOVELLANOS

Chairman

Philippine Joint Technical

Committee for the San Roque

Multipurpose Project

I. INTRODUCTION

In response to the request of the Government of the Republic of the Philippines (hereinafter referred to as "GOP"), the Government of Japan (hereinafter referred to as "GOJ") has decided to conduct the Re-Study of the San Roque Multi-Purpose Project (hereinafter referred to as "the Study") and exchanged the Note Verbale with GOP concerning the implementation of the Study.

The Japan International Cooperation Agency (hereinafter referred to as "JICA"), the official agency responsible for the implementation of technical cooperation programs of GOJ, will undertake the Study, in accordance with the relevant laws and regulations in force in Japan.

On the part of GOP, the National Power Corporation (hereinafter referred to as "NPC") shall act as counterpart agency to the Japanese study team and also as co-ordinating body in relation with other governmental and non-governmental organizations concerned for the smooth implementation of the Study.

The present document constitutes the implementing arrangements between JICA and NPC under the above-mentioned Note Verbale exchanged between the two Governments.

II. IMPLEMENTATION OF THE STUDY

The study shall be implemented in accordance with the Scope of Work attached herewith (Appendix I).

III. UNDERTAKING OF GOP

In accordance with the Note Verbale exchanged between GOJ and GOP, GOP shall accord privileges, immunities and other benefits to the Japanese study team and, through the authorities concerned, take necessary measures to facilitate smooth conduct of the Study.

- 1. GOP shall be responsible for dealing with claims which may be brought by the third parties against the members of the JICA study team and shall hold them harmless in respect of claims or liabilities arising in the course of or otherwise connected with the discharge of their duties in the implementation of the Study, except when such claims or liabilities arise from the gross negligence or willful misconduct of the above-mentioned members.
- 2. The NPC shall, at its own expense, provide the Japanese study team with the following, if necessary, in cooperation with other agencies concerned:
 - (1) Available data information and materials related to the Study.
 - (2) Counterpart personnel consisting of engineers.
 - (3) Administrative and technical support staff.
 - (4) Suitable office space at Manila and project site with adequate floor space and necessary office equipment.
 - (5) Suitable necessary lodging accommodation with pieces of furniture for daily life at the project site.
 - (6) Credentials or identification cards to the members of the Study team.
- 3. The NPC shall make necessary arrangements with the governmental and non-governmental organizations concerned for the following:
 - (1) To secure the safety of the Study team.
 - (2) To exempt the Japanese study team members for taxes, duties, fees and other charges on equipment, machinery and other charges on equipment, machinery and other material brought into the Philippines, and out of the Philippines, for the conduct of the Study.

- (3) To exempt from any taxes, duties, surcharges and the likes to be imposed on the equipment imported to the Philippines for the Study and on the JICA experts for their personal belongings carried to or sent to the Philippines, and, income tax, sales tax and any taxes to be imposed to JICA experts including the remittance from abroad.
- (4) To arrange customs clearance handling and storage at the port/airport and inland transportation (to and from the Project site) and custody of equipment, machines, instruments, tools and other articles to be brought into the Philippines, for the performance of the Study.
- (5) To arrange/coordinate meetings with authorities/agencies concerned.
- (6) To obtain official permission for the members of the study team to enter into, stay and work in, and depart from the Philippines.
- (7) To secure permission for entry into private properties or restricted areas for the conduct of the Study.
- (8) To use appropriate laboratories with qualified technicians for chemical analysis.
- (9) To avail medical facilities as needed and the expenses will be chargeable on the members of the study team.
- (10) To hire laborers as needed, and wages will be chargeable to JICA funds.
- (11) To secure permission to take all data, materials and documents related to the Study out of the Philippines.

IV. UNDERTAKING OF GOJ

In accordance with the Note Verbale exchanged between GOJ and GOP, GOJ, through JICA, will take necessary measures for the implementation of the Study.

- (1) To dispatch, at its own expense study team to the Republic of the Philippines.
- (2) To pursue technology transfer to the Philippine counterpart personnel in the course of the Study.

V. CONSULTATION

JICA and NPC will consult with each other in respect of any matter that may arise in the interpretation or implementation of the present arrangement.

(APPENDIX I)

FOR THE RESTUDY OF

THE SAN ROOUE MULTI-PURPOSE PROJECT

I. OBJECTIVES OF THE STUDY

The objectives of the Study are:

- 1. To assess the reservoir water quality
- 2. To assess the irrigation water quality
- 3. To review the hydrological analysis

II. SCOPE OF THE STUDY

- 1. Reservoir Water Quality
 - a. Conduct studies to forecast the short and long term quality of water stored in the reservoir.

2. Irrigation Water Quality

- a. Assess the effects of the physical, chemical and mineral properties of the mine tailings on the irrigation water, soils and plants in the project area.
- b. Monitor the behavior of crop production in relation to the use of irrigation water water from the Agno River.
- c. Assess the future quality of the irrigation water if mine tailings are stored in the proposed San Roque reservoir.

3. Water Resources

Review the hydrological analysis to confirm the availability and dependability of water resources for the project.

III. STUDY SCHEDULE

The Study will be executed in accordance with the tentative schedule (APPENDIX II).

IV. REPORTS

JICA will prepare and submit the following reports in English to the GOP.

1. Inception Report

- O Twenty (20) copies
- O Within one (1) month after the start of the Study
- O Covering the program of the Study with its detailed schedule.

2. First Interim Report

- o Twenty (20) copies
- O Seven (7) months after the start of the Study
- Covering the result of the hydrological analysis and its evaluation and all the observation data carried out in the dry season.

3. Second Interim Report

- O Twenty (20) copies
- O Fourteen (14) months after the start of the Study
- O Covering the primary result of reservoir water quality except irrigation water quality, and all the observation data.

4. Draft Final Report

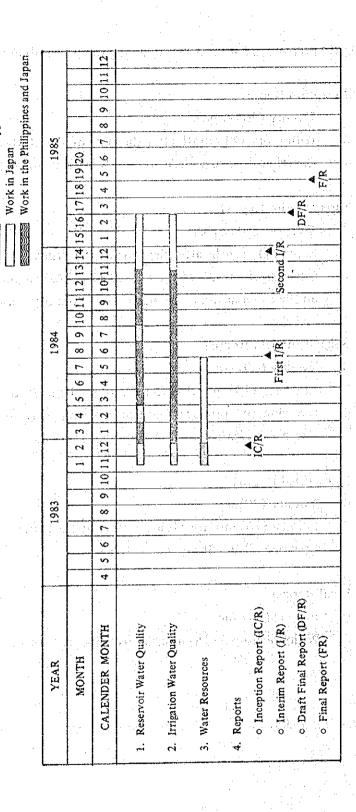
- O Twenty (20) copies
- O Sixteen (16) months after the start of the Study
- Covering all the Study and analysis

5. Final Report

- o Fifty (50) copies
- O Within eighteen (18) months after the start of the study.

Tentative Time Schedule

Work in the Philippines



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