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PROJETO DE DESENVOLVIMENTO
AGRICOLA DO VALE DO RIBEIRA,
RELATÓRIO DE PESQUISA EXECUÇÃO
E PLANEJAMENTO
[SUPLEMENTO ESTATÍSTICO 1]

JUNHO 1975

JAPAN INTERNATIONAL COOPERATION AGENCY

(JICA)

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EXECUÇÃO E PLANEJAMENTO

DADOS NO 1

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1. CALCULO DE AGUA NECESSARIO

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1-1. Balança de água

Há duas fontes d'água para a área planejada.

- 1) água 'runoff' de 200ha no vale interior da região norte
- 2) água corrente do Rio Jacupiranga, que corre em direção oeste

A água retirada segundo 1) e 2) adota como premissa a construção da represa e da casa de bombas. No presente planejamento, só se recorre a 2) quando falta água em 1).

1) Cálculo da quantidade de água armazenada útil na represa

O cálculo da quantidade de água armazenada útil na represa obedece à seguinte ordem:

- 1) cálculo da quantidade de água corrente na represa (1958/10 - 1960/9)
- 2) cálculo da quantidade de água necessária para a agricultura (1958/10 - 1960/9)
- 3) cálculo da quantidade de água em falta e da entrada e saída no tanque (1958/10 - 1960/9)
- 4) cálculo da quantidade de água armazenável na represa
- 5) Cálculo de água armazenada útil na represa

O cálculo de cada item é feito da seguinte maneira:

1) Quantidade de entrada na represa

A água da represa será pequena, 200ha, e o número de horas de inundação será pequeno, apenas uma hora. Em consequência troca-se o Índice de "runoff" tal como na Fig. 3-6, segundo a quantidade de chuva, procurando uma entrada na represa a cada 5 dias

$$Q = 10A \sum_{i=1}^5 f_i \eta_i$$

em que, Q = quantidade entrada na represa (m³)

A = área da represa (ha)

f_i = índice de "runoff" variável segundo a quantidade de chuva

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η = quantidade de chuva(mm)

Fig. INDICE DE RUNOFF "
-causado pela quantidade de chuva

Quantid. de chuva (mm)	Indice de "runoff" (%)	Quantid. de chuva (mm)	Indice de "runoff" (%)	Quantid. de chuva (mm)	Indice de "runoff" (%)
0 ~ 5	20	20 ~ 25	45	50 ~ 60	65
5 ~ 10	30	25 ~ 30	50	60 ~ 80	70
10 ~ 15	40	30 ~ 40	55	80 ~ 100	75
15 ~ 20	42	40 ~ 50	60	100 ~	80

2) Determinação da quantidade de água para a agricultura

De acordo com o planejamento das plantações, determina-se a quantidade útil de chuvas, a profundidade da água que diminui por dia, a quantidade de água consumida, bem como a quantidade de água necessária segundo o produto agrícola.

3) Cálculo da quantidade de água em falta e da entrada e saída no tanque.

De acordo com os dados 1) e 2) realiza-se a entrada e saída da água represada a cada 5 dias, calculando-se necessária para ser armazenada.

4) Cálculo da quantidade de água armazenável na represa

Com o auxílio de mapas topográficos 1/1.500 e 1/10.000, prepara-se a curva da posição da água e da quantidade de água armazenada, calculando-se a quantidade armazenável adequada na represa.

5) Cálculo da quantidade armazenada útil na represa

De acordo com os resultados dos cálculos de 3) e 4), determina-se a quantidade armazenada útil. A quantidade armazenada em falta torna-se água bombeada.

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Apresentamos abaixo o resultado dos cálculos, em resumo:

Quantidade de água armazenada necessária na represa	219,441 m ³
Quantidade armazenada útil	140,000m ³
Quantidade em dependência da bomba (acumulada)	79,441m ³
Quantidade máxima em dependência de bomba (5 dias)	24,752m ³ / 5 dias
	2.86m ³ /min

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Fig. ENTRADA DA AGUA NA REPRESA (m³)

5 dias mes.	1	2	3	4	5	6
58/10	25,800	8,200	6,400	200	5,800	118,400
11	1,020	0	2,700	1,400	160	0
12	200	59,000	88,100	90,600	39,000	0
59/1	57,600	600	77,100	101,000	10,600	0
2	76,800	4,400	7,000	3,000	0	2,000
3	800	0	4,000	39,800	36,200	4,600
4	22,000	33,200	600	0	22,600	200
5	1,200	400	0	52,600	29,600	0
6	5,400	1,800	0	0	0	0
7	1,000	0	0	0	0	0
8	18,000	4,600	3,600	1,400	0	8,000
9	12,600	0	13,800	1,600	400	14,500
10	0	1,200	43,400	800	9,600	15,200
11	0	5,800	39,200	5,200	2,400	23,000
12	0	15,800	5,400	600	13,400	0
60/1	6,600	58,000	109,600	0	1,400	0
2	20,200	42,000	50,600	21,800	103,800	21,400
3	4,200	0	4,200	8,800	9,000	0
4	0	30,200	1,500	110,800	0	0
5	11,600	4,200	18,600	31,200	58,800	1,400

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60/6	8,800	0	10,000	900	35,600	5,400
7	0	0	9,600	600	3,800	0
8	6,200	0	0	54,400	1,400	5,200
9	58,400	0	10,000	0	0	2,800

Fig. QUANTIDADE DE AGUA PARA A AGRICULTURA Unid. m³

Mês	Seg	Arroz	Vegetais	Banana	Plantas tropicais	Total
58/10	1	9.185				9.185
	2	12.644				12.644
	3	15.340				15.340
	4	19.400				19.400
	5	10.653				10.653
	6	10.653				10.653
/11	1	15.725				15.725
	2	18.200				18.200
	3	11.988				11.988
	4	13.711				13.711
	5	18.200				18.200
	6	18.200				18.200
/12	1	20.627				20.627
	2	9.634				9.634
	3	6.091				6.091
	4	1.917				1.917
	5	13.589				13.589
	6	24.752				24.752
59/1	1	6.237				6.237
	2	18.200				18.200
	3	4.732				4.732
	4	1.917				1.917
	5	16.040				16.040
	6	21.840				21.840
/2	1	9.173				9.173
	2	13.347				13.347
	3	15.326				15.326
	4	19.413				19.413
	5	12.133				12.133
	6	7.280				7.280
/3	1	18.200				18.200
	2	18.200				18.200
	3	18.200				18.200
	4	8.954				8.954
	5	9.707				9.707
	6	20.384				20.384

Séculos mês		Arroz	Vegetais	Banana	Plantas tropicais	Total
59/4	1	15.895		0	0	15.895
	2	14.778		0	0	14.778
	3	20.627		1.160	467	22.254
	4	20.627		1.160	467	22.254
	5	15.434		0	0	15.434
	6	20.627		1.160	467	22.254
/5	1	18.200	2.267	1.160	467	22.094
	2	18.200	2.267	1.160	467	22.094
	3	18.200	2.267	1.160	467	22.094
	4	7.523	1.451	0	0	8.974
	5	12.449	907	0	0	13.356
	6	21.840	2.720	1.392	560	26.512
/6	1		1.745	729	120	2.594
	2		2.176	1.160	467	3.803
	3		2.267	1.160	467	3.894
	4		2.267	1.160	467	3.894
	5		2.267	1.160	467	3.894
	6		2.267	1.160	467	3.894
/7	1		2.267	1.160	467	3.894
	2		2.267	1.160	467	3.894
	3		2.267	1.160	467	3.894
	4		2.267	1.160	467	3.894
	5		2.267	1.160	467	3.894
	6		2.720	1.392	560	4.672
/8	1		1.006			1.006
	2		1.795			1.795
	3		2.176			2.176
	4		2.267			2.267
	5		2.267			2.267
	6		2.325			2.325
/9	1					0
	2					0
	3					0
	4					0
	5					0
	6					0

Mês	5 dias	Arroz	Vegetais	Banana	Plantas tropicais	Total
59/10	1	10.313				10.313
	2	13.347				13.347
	3	13.175				13.175
	4	19.413				19.413
	5	9.804				9.804
	6	11.066				11.066
/11	1	18.200				18.200
	2	16.623				16.623
	3	10.653				10.653
	4	16.695				16.695
	5	18.200				18.200
	6	13.589				13.589
/12	1	20.627				20.627
	2	17.132				17.132
	3	20.627				20.627
	4	20.627				20.627
	5	17.157				17.157
	6	24.752				24.752
60/1	1	16.453				16.453
	2	7.595				7.595
	3	49				49
	4	18.200				18.200
	5	18.200				18.200
	6	21.840				21.840
/2	1	9.379				9.379
	2	9.955				9.955
	3	12.343				12.343
	4	17.013				17.013
	5	0				0
	6	4.514				4.514
/3	1	16.841				16.814
	2	18.200				18.200
	3	17.011				17.011
	4	16.065				16.065
	5	16.016				16.016
	6	21.840				21.840

Unid. m³

Mês	5 dias	Arroz	Vegetais	Banana	Plantas tropicais	Total
60/ 4	1	20.627		1.160	467	22.254
	2	15.385		0	0	15.385
	3	20.627		1.160	467	22.254
	4	3.203		0	0	3.203
	5	20.627		1.160	467	22.254
	6	21.840		1.160	467	22.254
/ 5	1	15.385	1.908	466	0	17.759
	2	16.841	2.165	825	197	20.028
	3	13.638	1.451	35	0	15.124
	4	11.648	595	0	0	12.243
	5	8.687	907	0	0	9.594
	6	21.840	2.720	1.392	560	26.512
/ 6	1		1.629	634	43	2.306
	2		2.176	1.160	467	3.803
	3		1.813	538	0	2.351
	4		1.429	1.160	467	3.056
	5		1.037	0	0	1.037
	6		878	729	120	1.727
/ 7	1		2.176	1.160	467	3.803
	2		2.267	1.160	467	3.894
	3		1.509	610	24	2.143
	4		2.267	1.160	467	3.894
	5		2.174	854	220	3.248
	6		2.352	1.392	560	4.304
/ 8	1		1.672			1.672
	2		2.002			2.002
	3		2.267			2.267
	4		272			272
	5		1.995			1.995
	6		2.212			2.212
/ 9	1					0
	2					0
	3					0
	4					0
	5					0
	6					0

Fig. 3-9. CALCULO DO DEFICIT D'AGUA E ENTRADA E SAIDA DO TANQUE 1953-59

Mês	5 dias	Entrada d'água na represa	Água para agricultura	Saldo d'água	Entrada d'água no tanque	Quantidade em dependência do tanque	Quantidade acumulada em dependência do tanque
10	1	25.800	9.185	16.615	0	0	0
	2	8.200	12.644	- 4.444	0	4.444	4.444
	3	6.400	15.340	- 8.940	0	8.940	13.384
	4	200	19.400	- 19.200	0	19.200	32.584
	5	5.800	10.653	- 4.853	0	4.853	37.437
	6	148.400	10.653	137.747	37.437	0	0
11	1	1.020	15.725	- 14.705	0	14.705	14.705
	2	0	18.200	- 18.200	0	18.200	32.905
	3	2.700	11.988	- 9.288	0	9.288	42.193
	4	1.400	13.711	- 12.311	0	12.311	54.504
	5	160	18.200	- 18.040	0	18.040	72.544
	6	0	18.200	- 18.200	0	18.200	90.744
12	1	200	20.627	- 20.427	0	20.427	111.171
	2	59.000	9.634	49.366	49.366	0	61.805
	3	88.400	6.091	82.309	61.805	0	0
	4	90.600	946	89.654	0	0	0
	5	39.000	13.589	25.411	0	0	0
	6	0	24.752	- 24.752	0	24.752	24.752
1	1	57.600	6.237	51.363	24.752	0	0
	2	600	18.200	- 17.600	0	17.600	17.600
	3	77.400	4.732	72.668	17.600	0	0
	4	101.000	1.917	99.083	0	0	0
	5	10.600	16.040	- 5.440	0	5.440	5.440
	6	0	21.840	- 21.840	0	21.840	27.280
2	1	76.800	9.173	67.627	27.280	0	0
	2	4.400	13.347	- 8.947	0	8.947	8.947
	3	7.000	15.326	- 8.326	0	8.326	17.273
	4	3.000	19.413	- 16.413	0	16.413	33.686
	5	0	12.133	- 12.133	0	12.133	45.819
	6	2.000	7.280	- 5.280	0	5.280	51.099
3	1	800	18.200	- 17.400	0	17.400	68.499
	2	0	18.200	- 18.200	0	18.200	86.696
	3	4.000	18.200	- 14.200	0	14.200	100.899
	4	39.800	8.954	30.846	30.846	0	70.053
	5	36.200	9.707	26.493	26.493	0	43.560
	6	4.600	20.384	- 15.784	0	15.784	59.344

1959

N.ºs	5 dias	Entrada d'agua reposita	Agua para agricultura	Saldo d'agua	Entrada d'agua no tanque	Quantidade em dependência do tanque	Quantidade acumulada em dependência do tanque
4	1	22.000	15.895	6.105	6.105	0	53.239
	2	33.200	14.778	18.422	18.422	0	34.817
	3	600	22.254	- 21.654	0	21.654	56.471
	4	0	22.254	- 22.254	0	22.254	78.725
	5	22.600	15.434	7.166	7.166	0	71.559
	6	200	22.254	- 22.054	0	22.054	93.613
5	1	1.200	22.094	- 20.894	0	20.894	114.507
	2	400	22.094	- 20.894	0	21.694	136.201
	3	0	22.094	- 22.094	0	22.094	158.295
	4	52.600	8.974	43.626	43.626	0	114.669
	5	29.600	13.356	13.544	13.544	0	101.125
	6	0	26.512	- 26.512	0	26.512	127.637
6	1	5.400	2.594	2.806	2.806	0	124.831
	2	1.800	3.803	- 2.003	0	2.003	126.834
	3	0	3.894	- 3.894	0	3.894	130.728
	4	0	3.894	- 3.894	0	3.894	134.622
	5	0	3.894	- 3.894	0	3.894	138.516
	6	0	3.894	- 3.894	0	3.894	142.410
7	1	1.000	3.894	- 2.894	0	2.894	145.304
	2	0	3.894	- 3.894	0	3.894	149.198
	3	0	3.894	- 3.894	0	3.894	153.092
	4	0	3.894	- 3.894	0	3.894	156.986
	5	0	3.894	- 3.894	0	3.894	160.880
	6	0	4.672	- 4.672	0	4.672	165.552
8	1	18.000	1.006	15.994	16.994	0	148.558
	2	4.600	1.795	2.805	2.805	0	145.753
	3	3.600	2.176	1.424	1.424	0	144.329
	4	1.400	2.267	- 867	0	867	145.196
	5	0	2.267	- 2.267	0	2.267	147.463
	6	8.000	2.325	5.675	0	5.675	141.788
9	1	12.600	0	12.600	12.600	0	129.188
	2	0	0	0	0	0	129.188
	3	13.800	0	13.800	13.800	0	115.388
	4	1.600	0	1.600	1.600	0	113.788
	5	400	0	400	400	0	113.388
	6	14.800	0	14.800	14.800	0	98.588

MCS	5 dias	Entrada d'água	Água para agricultura	Saldo d'água	Entrada d'água no tanque	Quantidade em dependência do tanque	Quantidade acumulada em dependência do tanque
10	1	0	10.313	- 10.313	0	10.313	108.90
	2	1.200	13.347	- 12.147	0	12.147	121.04
	3	43.400	13.175	30.255	30.255	0	90.82
	4	800	19.413	- 18.613	0	18.613	109.435
	5	9.600	9.804	- 204	0	204	109.640
	6	15.200	11.066	4.134	4.134	0	105.506
11	1	0	18.200	- 18.200	0	18.200	123.706
	2	5.800	16.623	- 10.823	0	10.823	134.529
	3	39.200	10.653	28.547	28.547	0	105.982
	4	5.200	16.695	- 11.495	0	11.495	117.477
	5	2.400	18.200	- 15.800	0	15.800	133.277
	6	23.000	13.589	9.411	9.411	0	123.866
12	1	0	20.627	- 20.627	0	20.627	144.493
	2	15.800	17.132	- 1.322	0	1.322	145.825
	3	5.400	20.627	- 15.227	0	15.227	161.052
	4	600	20.627	- 20.027	0	20.027	181.079
	5	13.400	17.157	- 3.757	0	3.757	184.836
	6	0	24.752	- 24.752	0	24.752	209.588
11	1	6.600	16.453	- 9.853	0	9.853	219.441
	2	56.000	7.595	48.405	48.405	0	171.036
	3	109.600	49	109.551	109.551	0	61.485
	4	0	18.200	- 18.200	0	18.200	79.685
	5	1.400	18.200	- 16.800	0	16.800	96.485
	6	0	21.840	- 21.840	0	21.840	118.325
2	1	20.200	9.379	10.821	10.821	0	107.504
	2	42.000	9.955	32.045	32.045	0	75.459
	3	50.600	12.343	38.257	38.257	0	37.202
	4	21.800	17.013	4.787	4.787	0	32.415
	5	103.800	0	103.800	32.415	0	0
	6	21.400	4.514	16.866	0	0	0
3	1	4.200	16.841	- 12.641	0	12.641	12.641
	2	0	18.200	- 18.200	0	18.200	30.841
	3	4.200	17.011	- 12.811	0	12.811	43.652
	4	8.800	16.065	- 7.265	0	7.265	50.917
	5	9.000	16.016	- 7.016	0	7.016	57.933
	6	0	21.840	- 21.840	0	21.840	79.773

1960

Mês	5 dias	Entrada d'água	Água para agricultura	Saldo d'água	Entrada d'água no tanque	Quantidade em dependência do tanque	Quantidade acumulada em dependência do tanque
4	1	0	22.254	- 22.254	0	22.254	102.027
	2	30.200	15.385	14.815	14.815	0	87.212
	3	1.600	22.254	- 20.654	0	20.654	107.866
	4	110.800	3.203	- 107.597	107.597	0	269
	5	0	22.254	- 22.254	0	22.254	22.523
	6	0	22.254	- 22.254	0	22.254	44.777
5	1	11.600	17.759	- 6.159	0	6.159	50.936
	2	4.200	20.028	- 15.826	0	15.828	66.764
	3	18.600	15.124	3.476	3.476	0	63.288
	4	34.200	12.243	21.957	21.957	0	41.331
	5	58.800	9.594	49.206	41.331	0	0
	6	1.400	26.512	- 25.112	0	25.112	25.112
6	1	8.800	2.306	6.494	6.494	0	18.618
	2	0	3.803	- 3.803	0	3.803	22.421
	3	10.400	2.351	8.049	8.049	0	14.372
	4	400	3.056	- 2.656	0	2.656	17.028
	5	36.600	1.037	35.563	17.028	0	0
	6	5.400	1.727	3.673	0	0	0
7	1	0	3.803	- 3.803	0	3.803	3.803
	2	0	3.894	- 3.894	0	3.894	7.697
	3	9.600	2.143	7.457	7.457	0	240
	4	600	3.894	- 3.294	0	3.294	3.534
	5	3.800	3.248	552	552	0	- 2.982
	6	0	4.304	- 4.304	0	4.304	7.285
8	1	6.200	1.672	4.528	4.528	0	2.758
	2	0	2.002	- 2.002	0	2.002	4.760
	3	0	2.267	- 2.267	0	2.267	7.027
	4	54.400	272	54.128	7.027	0	0
	5	1.400	1.995	595	0	595	595
	6	5.200	2.212	2.988	595	0	0
9	1	58.400	0	58.400	0	0	0
	2	0	0	0	0	0	0
	3	10.000	0	10.000	0	0	0
	4	0	0	0	0	0	0
	5	0	0	0	0	0	0
	6	2.800	0	2.800	0	0	0

JAPAN IRRIGATION
&
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CONSULTANTS
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1.2. CENTRO DE DESENVOLVIMENTO AGLICORA

AGUA NECESARIO PARA ARROZAL (PERIODO ANA "PADUFIG")

1955 AÑO
 (30.0mm) (30.0 mm) 80% AREA= 18.2 ha DIA "ANA" "PADUFIG"= 30 DIA
 Agua necesario para paddling (D1) = 50 mm en profundidad
 Agua necesario normal (D2) = 10 mm en profundidad
 Agua compensado H1, D2 Agua necesario tiempo L, H2

Agua necesario para paddling normal
 Agua necesario para paddling normal

Date	Rain	D1	H1	Area	D2	H2	Area	H2	H1+2	Agua	Agua
	mm	mm	mm	ha	mm	mm	ha	mm	mm	mm	mm
10	0.0	150.0	91	1364	10.0	10.0	0.00	0	1364	13.9	0.21
11	0.0	150.0	91	1364	10.0	10.0	0.00	0	1364	13.9	0.21
12	0.0	150.0	91	1364	10.0	10.0	1.62	162	1556	205.0	0.27
13	11.5	150.0	91	1261	10.0	10.0	2.73	273	1534	177.7	0.20
14	19.7	150.0	91	1221	10.0	0.0	3.54	0	1221	162.8	0.19
total	31.2	25.0	659					295	689	91.55	0.21
10	0.0	150.0	91	1364	10.0	10.0	4.55	455	1819	242.5	0.28
11	8.2	150.0	91	1290	10.0	10.0	5.42	542	1833	242.5	0.28
12	10.0	150.0	91	1364	10.0	10.0	7.28	728	2092	266.9	0.31
13	0.0	150.0	91	1364	10.0	10.0	8.19	819	2183	278.9	0.32
14	0.0	150.0	91	1364	10.0	2.3	9.10	209	1503	200.1	0.23
15	0.0	150.0	91	1364	10.0	10.0	10.00	1000	2364	315.2	0.36
total	0.0	150.0	91	1364	10.0	10.0	11.82	1091	2459	327.2	0.37
10	0.0	150.0	91	1364	10.0	10.0	12.73	1273	2546	339.5	0.39
total	21.5	15.9	13196					7492	20983	279.8	0.35
10	0.0	150.0	91	1364	10.0	10.0	13.64	1364	2729	363.7	0.42
11	0.0	150.0	91	1364	10.0	10.0	14.55	1455	2819	375.9	0.44
12	0.0	150.0	91	1364	10.0	10.0	15.46	1546	2910	388.0	0.45
13	0.0	150.0	91	1364	10.0	10.0	16.37	1637	3001	400.1	0.46
14	0.0	150.0	91	1364	10.0	10.0	17.28	1728	3092	412.2	0.47
total	0.0	0.0	6820					7730	14550	191.03	0.15
total	33.4	40.9	26910					15517	43127	56569	

IS

1958 And 10 ch. Area = 18.2 ha (80.0 mm > R. > 5.0 mm) * 80% = 3.R. I.S. = 75.0 mm

FADDY FIELD IRRIGATION REQUIREMENT (Normal) (%)

Date	R. mm	S.R. mm	D mm	H mm	I mm	Agg. necessary total mm	mm/8
21	2.8	0.0	10.0				
22	0.0	0.0	10.0				
23	0.0	0.0	10.0				
24	7.6	6.1	10.0				
25	1.1	0.0	10.0				
total	10.5	6.1	50.0	43.9	7990	10653	0.025
26	0.0	0.0	10.0				
27	37.6	30.1	10.0				
28	14.3	11.4	10.0				
29	7.1	5.7	10.0				
30	7.2	5.8	10.0				
31	62.1	49.7	10.0				
total	128.3	102.7	60.0	0.0	0	0	0.000
TOTAL	138.8	108.8			7990	10653	

PADDY FIELD IRRIGATION REQUIREMENT (Normal) (1/0)

1958 Area 11 to 18.2 ha (80.0 mm > R. > 5.0 mm) 80% = E.R. I.F. = 75.0%
 Date R. mm D. mm S.R. mm (80.0 mm > R. > 5.0 mm) 80% = E.R. I.F. = 75.0%
 Area received total m3

Date	R. mm	D. mm	S.R. mm	(80.0 mm > R. > 5.0 mm) 80% = E.R.	I.F. = 75.0%	Area received total m3
1	12.8	10.2	15.0			
2	0.0	0.0	15.0			
3	0.0	0.0	15.0			
4	0.0	0.0	15.0			
5	0.0	0.0	15.0			
total	12.8	10.2	75.0	64.8	11794	15725
6	0.0	0.0	15.0			
7	0.0	0.0	15.0			
8	0.0	0.0	15.0			
9	0.0	0.0	15.0			
10	0.0	0.0	15.0			
total	0.0	0.0	75.0	75.0	13650	18200
11	8.5	6.8	15.0			
12	23.5	18.8	15.0			
13	1.5	0.0	15.0			
14	0.0	0.0	15.0			
15	0.0	0.0	15.0			
total	33.5	25.6	75.0	49.4	8991	11988
16	0.0	0.0	15.0			
17	7.6	6.1	15.0			
18	0.0	0.0	15.0			
19	7.5	6.0	15.0			
20	8.0	6.4	15.0			
total	23.1	18.5	75.0	56.5	10283	13711
21	0.0	0.0	15.0			
22	0.0	0.0	15.0			
23	0.0	0.0	15.0			
24	2.3	0.0	15.0			
25	1.6	0.0	15.0			
total	4.1	0.0	75.0	75.0	13650	18200
26	0.0	0.0	15.0			
27	0.0	0.0	15.0			
28	0.0	0.0	15.0			
29	0.0	0.0	15.0			
30	0.0	0.0	15.0			
total	0.0	0.0	75.0	75.0	13650	18200
total	73.5	54.3			72017	96024

PADDY FIELD IRRIGATION REQUIREMENT (mm/day) (mm)

1958 Avo 12 ch Area = 18.2 ha (80.0 mm > R > 5.0 mm) * 80.5 E.R. I.E. = 75.0

Date	R ₁ mm	H ₁ mm	D ₁ mm	H ₂ mm	N ₂ mm	Agua Necesario total m ³ /a	
1	0.0	0.0	17.0				
2	0.0	0.0	17.0				
3	0.6	0.0	17.0				
4	0.0	0.0	17.0				
5	0.0	0.0	17.0				
total	0.6	0.0	85.0	15470	20627	0.8	
6	0.0	0.0	17.0				
7	20.4	16.3	17.0				
8	11.4	0.0	17.0				
9	36.2	29.0	17.0				
10	0.0	0.0	17.0				
total	58.0	45.3	85.0	39.7	7225	9634	0.22
11	23.0	18.4	17.0				
12	0.0	0.0	17.0				
13	0.0	0.0	17.0				
14	0.0	0.0	17.0				
15	51.9	41.5	17.0				
total	74.9	59.9	85.0	25.1	4568	6091	0.14
16	18.7	15.0	17.0				
17	25.6	20.5	17.0				
18	21.1	16.9	17.0				
19	18.5	14.8	17.0				
20	17.4	13.9	17.0				
total	101.3	81.1	85.0	3.9	710	946	0.02
21	5.2	4.2	17.0				
22	31.0	24.8	17.0				
23	2.5	0.0	17.0				
24	1.5	0.0	17.0				
25	0.0	0.0	17.0				
total	40.2	29.0	85.0	56.0	10192	13589	0.31
26	0.0	0.0	17.0				
27	0.0	0.0	17.0				
28	0.0	0.0	17.0				
29	0.0	0.0	17.0				
30	0.0	0.0	17.0				
31	0.0	0.0	17.0				
total	0.0	0.0	102.0	18564	24752	0.018	
TOTAL	275.0	215.3		56729	75639		

1959 Avo (18.2 ha) (80.0 mm > R. > 5.0 mm) 80.0 = F.R. I.S. = 75.0%

PADDY FIELD IRRIGATION REQUIREMENT (Pesticide) (normal) (1/1)

Date	Area (ha)	R. (mm)	D (mm)	H (mm)	I (mm)	Q (mm ³ /s)	Q _{total} (mm ³)	Q _{total} (m ³ /s)
1	0.0	0.0	15.0					
2	0.0	0.0	15.0					
3	22.1	17.7	15.0					
4	10.3	9.2	15.0					
5	29.2	23.4	15.0					
total	61.6	49.3	75.0	25.7	1677	6237	0.14	
6	0.0	0.0	15.0					
7	0.0	0.0	15.0					
8	1.5	0.0	15.0					
9	0.0	0.0	15.0					
10	0.0	0.0	15.0					
total	1.5	0.0	75.0	75.0	13650	18200	0.012	
11	0.0	0.0	15.0					
12	22.0	17.6	15.0					
13	47.4	37.9	15.0					
14	1.5	0.0	15.0					
15	0.0	0.0	15.0					
total	70.9	55.5	75.0	19.5	3549	4732	0.011	
16	6.2	5.0	15.0					
17	0.0	0.0	15.0					
18	12.2	9.8	15.0					
19	60.1	48.1	15.0					
20	5.2	4.2	15.0					
total	83.7	67.1	75.0	7.9	1438	1917	0.001	
21	1.0	0.0	15.0					
22	5.6	4.5	15.0					
23	3.3	0.0	15.0					
24	5.5	4.4	15.0					
25	4.6	0.0	15.0					
total	20.0	8.9	75.0	66.1	12030	16040	0.037	
26	0.0	0.0	15.0					
27	0.0	0.0	15.0					
28	0.0	0.0	15.0					
29	0.0	0.0	15.0					
30	0.0	0.0	15.0					
31	0.0	0.0	15.0					
total	0.0	0.0	90.0	90.0	16380	21840	0.042	
total	237.7	180.8			51724	68966		

ÁGUA NECESSÁRIO PARA ARROZAL (PERÍODO PARA "ADDLING")

1989 A.O. ALEA=18,2 ha DIA PARA "ADDLING"=20 DIA
 (50 Omg Rainha 0,0 mm) 80% eficiência de irrigação=75%
 Água necessário para addling (N1)=150 mm cm profundidade
 Água necessário normal (D2)=10 mm cm profundidade
 Água colhido (m, m)

Água necessário para addling normal

Date	Rain	P.R.	H1	H2	Area	N1	D2	H2	Area	N2	N1-N2	Area	mm	mm	mm	mm	mm	mm	mm
2	47.2	37.8	150.0	112.2	.91	1021	10.0	0.0	0.00	0	1021	1861	0.16						
3	2.2	0.0	150.0	150.0	.91	1365	10.0	10.0	0.91	91	1456	1947	0.22						
4	1.9	0.0	150.0	150.0	.91	1365	10.0	10.0	0.82	82	1447	1939	0.25						
5	20.2	16.2	150.0	133.6	.91	1219	10.0	0.0	2.73	273	1492	1765	0.19						
total	71.5	54.0				6334				546	6880	9173	0.21						
2	0.0	0.0	150.0	150.0	.91	1365	10.0	10.0	4.55	455	1820	2275	0.28						
7	4.5	0.0	150.0	150.0	.91	1365	10.0	10.0	5.45	545	1910	2455	0.29						
8	4.6	0.0	150.0	150.0	.91	1365	10.0	10.0	6.37	637	2002	2639	0.31						
9	1.5	0.0	150.0	150.0	.91	1365	10.0	10.0	7.28	728	2093	2821	0.32						
10	0.0	0.0	150.0	150.0	.91	1365	10.0	10.0	8.19	819	2184	2912	0.24						
11	9.9	7.9	150.0	148.1	.91	1293	10.0	2.1	9.10	910	1403	1913	0.23						
12	0.0	0.0	150.0	150.0	.91	1365	10.0	10.0	10.01	1001	2366	3139	0.21						
13	2.0	0.0	150.0	150.0	.91	1365	10.0	10.0	10.92	1092	2457	3276	0.28						
14	0.0	0.0	150.0	150.0	.91	1365	10.0	10.0	11.83	1183	2548	3377	0.29						
15	.3	0.0	150.0	150.0	.91	1365	10.0	10.0	12.74	1274	2639	3519	0.21						
total	22.0	7.9				13378				7926	21504	29673	0.16						
2	7	0.0	150.0	150.0	.91	1365	10.0	10.0	13.65	1365	2730	3640	0.17						
17	5.3	0.0	150.0	150.0	.91	1365	10.0	10.0	14.56	1456	2821	3761	0.14						
18	0.0	0.0	150.0	150.0	.91	1365	10.0	10.0	15.47	1547	2912	3882	0.13						
19	3.0	0.0	150.0	150.0	.91	1365	10.0	10.0	16.38	1638	3003	4003	0.15						
20	0.0	0.0	150.0	150.0	.91	1365	10.0	10.0	17.29	1729	3094	4125	0.18						
total	7.0	0.0				6825				7735	19560	26113	0.15						
TOTAL	101.3	61.9				20737				16207	42944	57259							

PADDY FIELD IRRIGATION REQUIREMENT (Perched) (/ /)

1959 Ano 2 th. Area = 18.2 ha (300.0 mm > R > 5.0 mm) * 80 % = P.R. I.P. = 75.0 %

Date	R. mm	S.R. mm	D mm	H mm	A. mm	Water necessary m ³ /ha	Total m ³
21	0.0	0.0	10.0				
22	0.0	0.0	10.0				
23	0.0	0.0	10.0				
24	0.0	0.0	10.0				
25	0.0	0.0	10.0				
total	0.0	0.0	50.0	9100	12133	.028	
26	0.0	0.0	10.0				
27	0.0	0.0	10.0				
28	4.7	0.0	10.0				
total	4.7	0.0	30.0	5460	7280	.028	
TOTAL	4.7	0.0		14560	19413		

1959 Avo 3th Area = 10.2 ha (80.0 mm > R > 5.0 mm) E.R. I.F. = 75.0

PADDY FIELD IRRIGATION REQUIREMENT (Normal) (/)

Date	R. mm	I.R. mm	D. mm	H. mm	Y. mm	Water necessary mm	total
1	1.7	0.0	15.0				
2	0.0	0.0	15.0				
3	0.0	0.0	15.0				
4	0.0	0.0	15.0				
5	0.0	0.0	15.0				
total	1.7	0.0	75.0	13650	18200	.042	
6	0.0	0.0	15.0				
7	0.0	0.0	15.0				
8	0.0	0.0	15.0				
9	0.0	0.0	15.0				
10	0.0	0.0	15.0				
total	0.0	0.0	75.0	13650	18200	.012	
11	4.7	0.0	15.0				
12	3.1	0.0	15.0				
13	1.4	0.0	15.0				
14	0.0	0.0	15.0				
15	0.0	0.0	15.0				
total	9.2	0.0	75.0	13650	18200	.042	
16	0.0	0.0	15.0				
17	0.0	0.0	15.0				
18	26.2	19.4	15.0				
19	7.0	5.6	15.0				
20	16.4	13.1	15.0				
total	47.6	38.1	75.0	36.9	6716	8954	.021
21	20.4	16.3	15.0				
22	14.8	11.8	15.0				
23	8.6	6.9	15.0				
24	.8	0.0	15.0				
25	.3	0.0	15.0				
total	44.9	35.0	75.0	40.0	7280	9707	.022
26	0.0	0.0	15.0				
27	0.0	0.0	15.0				
28	0.0	0.0	15.0				
29	0.0	0.0	15.0				
30	0.0	0.0	15.0				
31	7.5	6.0	15.0				
total	7.5	6.0	90.0	84.0	15288	20384	.039
TOTAL	110.9	79.1			70234	93645	

PADDY FIELD IRRIGATION REQUIREMENT (Penelope) (Normal) (3/1)

1959 A/c 4 th Area = 18.2 ha (80.0 mm > R > 15.0 mm) R.R. = 80 % = P.R. I.R. = 75.0

Date	Area (ha)	R.R. (mm)	D (mm)	H (mm)	mm	mm	mm	R.R. (%)	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s
1	0.0	0.0	17.0											
2	0.0	0.0	17.0											
3	0.0	0.0	17.0											
4	24.4	19.5	17.0											
5	0.0	0.0	17.0											
total	24.4	19.5	85.0		11921		15895		0.077					
6	30.1	24.1	17.0											
7	0.0	0.0	17.0											
8	0.0	0.0	17.0											
9	0.0	0.0	17.0											
10	0.0	0.0	17.0											
total	30.1	24.1	85.0		11084		14778		0.074					
11	1.1	0.0	17.0											
12	0.0	0.0	17.0											
13	0.0	0.0	17.0											
14	0.0	0.0	17.0											
15	0.0	0.0	17.0											
total	1.1	0.0	85.0		15170		20627		0.018					
16	0.0	0.0	17.0											
17	0.0	0.0	17.0											
18	0.0	0.0	17.0											
19	0.0	0.0	17.0											
20	0.0	0.0	17.0											
total	0.0	0.0	85.0		15470		20627		0.018					
21	0.0	0.0	17.0											
22	0.0	0.0	17.0											
23	0.0	0.0	17.0											
24	5.2	4.2	17.0											
25	21.5	17.2	17.0											
total	26.7	21.4	85.0		11575		15434		0.036					
26	0.0	0.0	17.0											
27	0.0	0.0	17.0											
28	0.0	0.0	17.0											
29	3	0.0	17.0											
30	0.0	0.0	17.0											
total	3	0.0	85.0		15470		20627		0.018					
TOTAL	82.6	65.0			80990		107988							

1959 Area 5 th Area = 18.2 ha (80.0 mm > R > 5.0 mm) - 80.4 mm - 5.0 mm - 1.1 mm = 75.0 mm

Date	P. mm	R. mm	H. mm	A. mm	total
1	0.0	0.0	15.0		
2	0.0	0.0	15.0		
3	0.0	0.0	15.0		
4	0.0	0.0	15.0		
5	3.0	0.0	15.0		
total	3.0	0.0	75.0	13650	18200
6	0.0	0.0	15.0		
7	0.0	0.0	15.0		
8	0.0	0.0	15.0		
9	0.0	0.0	15.0		
10	0.0	0.0	15.0		
total	0.0	0.0	75.0	13650	18200
11	0.0	0.0	15.0		
12	0.0	0.0	15.0		
13	0.0	0.0	15.0		
14	0.0	0.0	15.0		
15	0.0	0.0	15.0		
total	0.0	0.0	75.0	13650	18200
16	0.0	0.0	15.0		
17	0.0	0.0	15.0		
18	0.0	0.0	15.0		
19	25.0	20.0	15.0		
20	30.0	24.0	15.0		
total	55.0	44.0	75.0	5642	7523
21	29.6	23.7	15.0		
22	0.0	0.0	15.0		
23	0.0	0.0	15.0		
24	0.0	0.0	15.0		
25	0.0	0.0	15.0		
total	29.6	23.7	75.0	9337	12449
26	0.0	0.0	15.0		
27	0.0	0.0	15.0		
28	0.0	0.0	15.0		
29	0.0	0.0	15.0		
30	0.0	0.0	15.0		
31	0.0	0.0	15.0		
total	0.0	0.0	90.0	16380	21840
total	88.4	67.7		72309	96412

Area = 18.2 ha (80.0 mm > R > 5.0 mm) - 80.4 mm - 5.0 mm - 1.1 mm = 75.0 mm

AGUA NECESARIO PARA ARRIBA(EN TODO CASO COMPLETAR)
 1955 AÑO
 (600 mm) para 15.0 mm) 8.7 AREA= 15.0 mm) 8.7 AREA= 15.0 mm) 8.7 AREA= 15.0 mm) 8.7
 Agua necesario para arriba (M1)=15.0 mm) 8.7 AREA= 15.0 mm) 8.7 AREA= 15.0 mm) 8.7
 Agua necesario para arriba (M2)=10.0 mm) 8.7 AREA= 15.0 mm) 8.7 AREA= 15.0 mm) 8.7
 Agua necesario para arriba (M3)=10.0 mm) 8.7 AREA= 15.0 mm) 8.7 AREA= 15.0 mm) 8.7

Agua necesario para arriba (M1)=15.0 mm) 8.7 AREA= 15.0 mm) 8.7 AREA= 15.0 mm) 8.7
 Agua necesario para arriba (M2)=10.0 mm) 8.7 AREA= 15.0 mm) 8.7 AREA= 15.0 mm) 8.7
 Agua necesario para arriba (M3)=10.0 mm) 8.7 AREA= 15.0 mm) 8.7 AREA= 15.0 mm) 8.7

Date	Time	5.2	DI	M1	M2	M3	Area	M1	M2	M3	Area	M1	M2	M3	Area	M1	M2	M3	Area	M1	M2	M3	Area
10	1	0.0	150.0	150.0	.91	1365	10.0	10.0	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0.0	150.0	150.0	.91	1365	10.0	10.0	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0.0	150.0	150.0	.91	1365	10.0	10.0	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0.0	150.0	150.0	.91	1365	10.0	10.0	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0.0	150.0	150.0	.91	1365	10.0	10.0	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
total	0.0	0.0	6025	910	6825	10010	3185	3185	10010	910	7335	10315	10315	10315	10315	10315	10315	10315	10315	10315	10315	10315	10315
10	11	0.0	150.0	150.0	.91	1365	10.0	10.0	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0.0	150.0	150.0	.91	1365	10.0	10.0	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0.0	150.0	150.0	.91	1365	10.0	10.0	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0.0	150.0	150.0	.91	1365	10.0	10.0	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0.0	150.0	150.0	.91	1365	10.0	10.0	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
total	2.0	0.0	6125	910	6125	10010	3185	3185	10010	910	7335	10315	10315	10315	10315	10315	10315	10315	10315	10315	10315	10315	10315
10	16	0.0	150.0	150.0	.91	1365	10.0	10.0	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0.0	150.0	150.0	.91	1365	10.0	10.0	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0.0	150.0	150.0	.91	1365	10.0	10.0	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0.0	150.0	150.0	.91	1365	10.0	10.0	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0.0	150.0	150.0	.91	1365	10.0	10.0	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
total	42.9	34.2	6512	910	6512	10010	3185	3185	10010	910	7335	10315	10315	10315	10315	10315	10315	10315	10315	10315	10315	10315	10315
10	16	0.0	150.0	150.0	.91	1365	10.0	10.0	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0.0	150.0	150.0	.91	1365	10.0	10.0	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0.0	150.0	150.0	.91	1365	10.0	10.0	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0.0	150.0	150.0	.91	1365	10.0	10.0	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0.0	150.0	150.0	.91	1365	10.0	10.0	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
total	1.8	0.0	6325	910	6325	10010	3185	3185	10010	910	7335	10315	10315	10315	10315	10315	10315	10315	10315	10315	10315	10315	10315
TOTAL	47.4	34.2	26089	910	26089	10010	3185	3185	10010	910	7335	10315	10315	10315	10315	10315	10315	10315	10315	10315	10315	10315	10315

PADDY FIELD IRRIGATION REQUIREMENT (MUSKAT) (1/7)

1959 Aug 10 th Area = 18.2 ha (80.0 mm > R. > 5.0 mm) * 80 mm = 14560 m³ (100 mm = 75.0 mm)

Date	R. (mm)	E.R. (mm)	D. (mm)	II (mm)	III (mm)	IV (mm)	Agua (m ³ /ha)	Total (m ³)
21	0.0	0.0	10.0					
22	12.0	9.5	10.0					
23	0.0	0.0	10.0					
24	0.0	0.0	10.0					
25	0.0	0.0	10.0					
total	12.0	9.5	50.0	40.4	7353	9804	0.021	
26	0.0	0.0	10.0					
27	0.0	0.0	10.0					
28	0.0	0.0	10.0					
29	18.0	14.4	10.0					
30	0.0	0.0	10.0					
31	0.0	10.0	10.0					
total	18.0	14.4	60.0	45.6	8299	11066	0.021	
TOTAL	30.0	24.0			15652	20870		

PADDY FIELD IRRIGATION REQUIREMENT (Normal) (SI)

1959 A no

Area = 18.2 ha (180.0 mm > R > 15.0 mm) S.R. I.R. = 75.0 %

Date	Ill. mm	S.R. mm	D mm	V m ³	Area necessary (total) m ² /a
1	0.0	0.0	15.0		
2	0.0	0.0	15.0		
3	0.0	0.0	15.0		
4	0.0	0.0	15.0		
5	0.0	0.0	15.0		
total	0.0	0.0	75.0	13650	18200
6	8.1	6.5	15.0		
7	0.0	0.0	15.0		
8	1.0	0.0	15.0		
9	1.6	0.0	15.0		
10	0.0	0.0	15.0		
total	9.7	6.5	68.5	12467	16623
11	0.0	0.0	15.0		
12	31.3	25.0	15.0		
13	7.6	6.1	15.0		
14	0.0	0.0	15.0		
15	0.0	0.0	15.0		
total	38.9	31.1	43.9	7990	10653
16	0.0	0.0	15.0		
17	0.0	0.0	15.0		
18	0.0	0.0	15.0		
19	7.7	6.2	15.0		
20	0.9	0.0	15.0		
total	8.6	6.2	68.8	12922	16695
21	.2	0.0	15.0		
22	.9	0.0	15.0		
23	4.8	0.0	15.0		
24	0.0	0.0	15.0		
25	0.0	0.0	15.0		
total	5.9	0.0	75.0	13650	18200
26	23.8	19.0	15.0		
27	2.9	0.0	15.0		
28	0.0	0.0	15.0		
29	0.0	0.0	15.0		
30	.4	0.0	15.0		
total	27.1	19.0	56.0	10192	13589
TOTAL	90.2	62.8	70470	93960	

1959 AND 12th Area - 18.2 ha (80.0 mm > R. > 5.0 mm) * 80% = E.R. I.E. = 75.0%

Date	R. mm	E.R. mm	D. mm	I. mm	Avg. Accession total m ³ /s
1	0.0	0.0	17.0		
2	0.0	0.0	17.0		
3	0.0	0.0	17.0		
4	0.0	0.0	17.0		
5	0.0	0.0	17.0		
total	0.0	0.0	85.0	15470	20627
6	0.0	0.0	17.0		
7	0.0	0.0	17.0		
8	1.4	0.0	17.0		
9	18.0	14.4	17.0		
10	0.0	0.0	17.0		
total	19.4	14.4	85.0	12849	17132
11	4.5	0.0	17.0		
12	0.0	0.0	17.0		
13	0.0	0.0	17.0		
14	0.0	0.0	17.0		
15	0.0	0.0	17.0		
total	4.5	0.0	85.0	15470	20627
16	0.0	0.0	17.0		
17	0.0	0.0	17.0		
18	1.6	0.0	17.0		
19	0.0	0.0	17.0		
20	0.0	0.0	17.0		
total	1.6	0.0	85.0	15470	20627
21	0.0	0.0	17.0		
22	5.5	4.4	17.0		
23	0.0	0.0	17.0		
24	12.4	9.9	17.0		
25	.2	0.0	17.0		
total	18.1	14.3	85.0	12867	17157
26	0.0	0.0	17.0		
27	0.0	0.0	17.0		
28	0.0	0.0	17.0		
29	0.0	0.0	17.0		
30	0.0	0.0	17.0		
31	0.0	0.0	17.0		
total	0.0	0.0	102.0	18564	24752
TOTAL	43.6	28.7		90691	120922

1960 And 1961 Paddy Field Irrigation Requirement (N.B. 10/1)

Date	Area (mm)	I.R. (mm)	R. (mm)	(80.0 mm > R. > 5.0 mm)	I.R. (mm)	I.R. (mm)	Area (mm)	necessaries (mm/s)	total
1	9.0	7.2	15.0						
2	3.0	0.0	15.0						
3	0.0	0.0	15.0						
4	0.0	0.0	15.0						
5	0.0	0.0	15.0						
total	12.2	7.2	67.8	12240	16453	0.38			
6	0.0	0.0	15.0						
7	17.1	13.7	15.0						
8	37.5	30.0	15.0						
9	0.0	0.0	15.0						
10	1.2	0.0	15.0						
total	56.0	43.7	75.0	31.3	5697	7595	0.18		
11	30.5	24.4	15.0						
12	51.1	41.1	15.0						
13	11.6	9.3	15.0						
14	0.0	0.0	15.0						
15	0.0	0.0	15.0						
total	93.5	74.8	75.0	2.2	36	49	0.00		
16	0.0	0.0	15.0						
17	0.0	0.0	15.0						
18	0.0	0.0	15.0						
19	0.0	0.0	15.0						
20	0.0	0.0	15.0						
total	0.0	0.0	75.0	13650	18200	0.042			
21	0.0	0.0	15.0						
22	1.5	0.0	15.0						
23	0.0	0.0	15.0						
24	0.0	0.0	15.0						
25	3.0	0.0	15.0						
total	3.5	0.0	75.0	13650	18200	0.042			
26	0.0	0.0	15.0						
27	0.0	0.0	15.0						
28	0.0	0.0	15.0						
29	0.0	0.0	15.0						
30	0.0	0.0	15.0						
31	0.0	0.0	15.0						
total	0.0	0.0	90.0	16380	21840	0.042			
TOTAL	165.2	125.7		51753	82337				

AGUA NECESSARIO PARA ANORMAL (PERIODO PARA "SADDLING")

Area = 2 1/2 ha DIA PARA "SADDLING" = 20 DIA
 V (60 Onms) = 150 m3
 Agua necesario para cada dia (DA) = 150 m3 en profundidad de
 Agua necesario normal (W2) = 10 m3 en profundidad de
 Agua necesario para el dia (DA) = 150 m3 en profundidad de
 Agua necesario para el dia (DA) = 150 m3 en profundidad de

Agua necesario para normal

Date	rain	z.r.	HL	Area	N1	D2	W2	area	V2	W1	W2	W3	W4	W5
2	0.0	0.0	150.0	.91	1365	10.0	10.0	0.00	0	1505	1505	1830	1830	.025
3	1.5	0.0	150.0	.91	1365	10.0	10.0	0.00	0	1505	1505	1830	1830	.025
4	7.3	0.0	150.0	.91	1291	10.0	10.0	0.00	0	1321	1321	1673	1673	.025
5	0.0	0.0	150.0	.91	1365	10.0	10.0	0.00	0	1505	1505	1830	1830	.025
6	13.6	0.0	150.0	.91	1241	10.0	10.0	0.00	0	1241	1241	1555	1555	.019
total	27.2	21.4			6630				401	703				.022
7	2.0	0.0	150.0	.91	1365	10.0	10.0	0.00	4.55	1320	1320	1677	1677	.020
8	0.0	0.0	150.0	.91	1365	10.0	10.0	0.00	5.46	1311	1311	1650	1650	.019
9	13.5	10.8	150.0	.91	1207	10.0	10.0	0.00	6.37	1167	1167	1433	1433	.020
10	17.5	14.0	150.0	.91	1239	10.0	10.0	0.00	7.28	1228	1228	1511	1511	.019
11	19.5	14.3	150.0	.91	1230	10.0	10.0	0.00	6.19	1230	1230	1540	1540	.019
total	51.5	39.6			6465				306	7466				.023
12	6.9	5.5	150.0	.91	1315	10.0	10.0	9.10	9.10	1225	1225	1500	1500	.022
13	4.0	0.0	150.0	.91	1365	10.0	10.0	10.00	10.00	1007	1007	1255	1255	.022
14	0.0	0.0	150.0	.91	1365	10.0	10.0	10.00	10.00	1002	1002	1256	1256	.024
15	25.4	20.4	150.0	.91	1107	10.0	10.0	11.83	11.83	1102	1102	1476	1476	.027
total	55.9	41.5			6440			2.4	12.74	306				.025
16	0.0	0.0	150.0	.91	1365	10.0	10.0	13.35	13.35	2103	2103	1234	1234	.022
17	0.0	0.0	150.0	.91	1365	10.0	10.0	14.56	14.56	1505	1505	1730	1730	.022
18	0.0	0.0	150.0	.91	1365	10.0	10.0	15.27	15.27	1416	1416	1761	1761	.024
19	22.3	17.5	150.0	.91	1203	10.0	10.0	15.30	15.30	2012	2012	1833	1833	.025
20	4.7	0.0	150.0	.91	1365	10.0	10.0	17.29	17.29	1729	1729	1601	1601	.025
total	77.0	17.0			6663					6097				.029
TOTAL	61.6	120.3			26200					10311				

1960 Area: Paddy Field IRRIGATION REQUIREMENT (Needs) (/ -)

Area = 18.2 ha (80.0 mm > R) > 5.0 mm * 80% = ER. I.F. = 75.0

Date	Area ha	R.R. mm	D mm	H mm	Area mm ²	Area necessario total m ³ /s
21	31.2	25.0	10.0			
22	32.5	26.0	10.0			
23	11.4	0.0	10.0			
24	30.0	0.0	10.0			
25	30.0	24.0	10.0			
total	95.1	75.0	50.0	0.0	0	0.000
26	13.0	10.4	10.0			
27	0.0	0.0	10.0			
28	0.0	0.0	10.0			
29	13.7	31.0	10.0			
total	26.7	21.4	40.0	18.6	3385	4514
TOTAL	121.8	96.4			3385	4514

PADDY FIELD IRRIGATION REQUIREMENT

Period: (/ /)

1960 A/c 3 th Area = 18.2 ha (80.0 mm > n > 5.0 mm) * 80.0 mm = P.R. I.R. = 75.0

Date	H. mm	P.R. mm	D. mm	H. mm	I.R. mm	Area (m ²)	Volume (m ³)	Volume (m ³ /ha)	Total
1	0.0	0.0	15.0						
2	0.0	0.0	15.0						
3	7.0	5.6	15.0						
4	0.0	0.0	15.0						
5	0.0	0.0	15.0						
total	7.0	5.6	75.0	69.4	12631	16841		.039	
6	0.0	0.0	15.0						
7	0.0	0.0	15.0						
8	0.0	0.0	15.0						
9	0.0	0.0	15.0						
10	0.0	0.0	15.0						
total	0.0	0.0	75.0	75.0	13650	18200		.042	
11	0.0	0.0	15.0						
12	6.1	4.9	15.0						
13	0.0	0.0	15.0						
14	1.1	0.0	15.0						
15	3.3	0.0	15.0						
total	7.5	4.9	75.0	70.1	12758	17011		.039	
16	11.0	8.8	15.0						
17	0.0	0.0	15.0						
18	0.0	0.0	15.0						
19	0.0	0.0	15.0						
20	0.0	0.0	15.0						
total	11.0	8.8	75.0	66.2	12018	16065		.037	
21	0.0	0.0	15.0						
22	0.0	0.0	15.0						
23	11.2	9.0	15.0						
24	0.0	0.0	15.0						
25	0.0	0.0	15.0						
total	11.2	9.0	75.0	66.0	12012	16016		.037	
26	0.0	0.0	15.0						
27	0.0	0.0	15.0						
28	0.0	0.0	15.0						
29	0.0	0.0	15.0						
30	0.0	0.0	15.0						
31	0.0	0.0	15.0						
total	0.0	0.0	90.0	90.0	16350	21840		.042	
TOTAL	36.7	28.3			79179	105973			

PADDY FIELD IRRIGATION REQUIREMENT (Paddy) (/)

1960 Ave

Date	Area - ha	R.R. mm	E.R. mm	D mm	H mm	E.R. mm	I.R. mm	Net mm	Net mm	Net mm
1	0.0	0.0	0.0	17.0						
2	0.0	0.0	0.0	17.0						
3	0.0	0.0	0.0	17.0						
4	0.0	0.0	0.0	17.0						
5	0.0	0.0	0.0	17.0						
total	0.0	0.0	0.0	85.0						
6	27.0	21.6	0.0	17.0						
7	0.0	0.0	0.0	17.0						
8	3.5	0.0	0.0	17.0						
9	0.0	0.0	0.0	17.0						
10	4.5	0.0	0.0	17.0						
total	35.0	21.6	0.0	85.0						
11	4.0	0.0	0.0	17.0						
12	0.0	0.0	0.0	17.0						
13	0.0	0.0	0.0	17.0						
14	0.0	0.0	0.0	17.0						
15	0.0	0.0	0.0	17.0						
total	4.0	0.0	0.0	85.0						
16	0.0	0.0	0.0	17.0						
17	0.0	0.0	0.0	17.0						
18	0.0	0.0	0.0	17.0						
19	59.8	17.8	0.0	17.0						
20	30.0	24.0	0.0	17.0						
total	89.8	41.8	0.0	85.0						
21	0.0	0.0	0.0	17.0						
22	0.0	0.0	0.0	17.0						
23	0.0	0.0	0.0	17.0						
24	0.0	0.0	0.0	17.0						
25	0.0	0.0	0.0	17.0						
total	0.0	0.0	0.0	85.0						
26	0.0	0.0	0.0	17.0						
27	0.0	0.0	0.0	17.0						
28	0.0	0.0	0.0	17.0						
29	0.0	0.0	0.0	17.0						
30	0.0	0.0	0.0	17.0						
total	0.0	0.0	0.0	85.0						
TOTAL	128.8	93.4	0.0	85.0						

PADDY FIELD IRRIGATION REQUIREMENT

1960 5 th Area = 18.2 ha (80.0 mm > R. > 5.0 mm) 80% = 3.R. I.F. = 5.0

Date	R. (mm)	I.F. (mm)	D (mm)	H (mm)	Area (ha)	Volume (mm ³)	Volume (m ³)	Volume (m ³)
1	14.5	11.6	15.0					
2	0.0	0.0	15.0					
3	0.0	0.0	15.0					
4	0.0	0.0	15.0					
5	0.0	0.0	15.0					
total	14.5	11.6	75.0	63.4	11539	15385		.036
6	0.0	0.0	15.0					
7	0.0	0.0	15.0					
8	0.0	0.0	15.0					
9	0.0	0.0	15.0					
10	7.0	5.6	15.0					
total	7.0	5.6	75.0	69.4	12631	16841		.039
11	3.2	0.0	15.0					
12	0.0	0.0	15.0					
13	0.0	0.0	15.0					
14	5.5	4.4	15.0					
15	19.0	14.4	15.0					
total	26.7	18.9	75.0	56.2	10228	13638		.032
16	5.7	4.6	15.0					
17	0.0	0.0	15.0					
18	0.0	0.0	15.0					
19	0.0	0.0	15.0					
20	28.0	22.4	15.0					
total	33.7	27.0	75.0	48.0	8736	11643		.027
21	49.0	39.2	15.0					
22	0.0	0.0	15.0					
23	0.0	0.0	15.0					
24	0.0	0.0	15.0					
25	0.0	0.0	15.0					
total	49.0	39.2	75.0	35.8	6516	8687		.030
26	0.0	0.0	15.0					
27	0.0	0.0	15.0					
28	0.0	0.0	15.0					
29	0.0	0.0	15.0					
30	0.0	0.0	15.0					
31	2.7	0.0	15.0					
total	3.7	0.0	90.0	90.0	16380	21840		.042
TOTAL	134.6	102.2			66030	88039		

Irrigation Interval: 5.0 days
 Area: 6.80 ha
 Irrigation efficiency: 75.0%

Date	Rain	U.R.	G.U.	A.R.	S.V.	R.V.	A.R.	S.V.	R.V.	A.R.	S.V.	R.V.	A.R.	S.V.	R.V.	A.R.	S.V.	R.V.	Total
7-01	0.0	0.0	5.0	0.0	0.0	15.0	0.0	0.0	20.0	0.0	0.0	0.0	0.0	0.0	5.0	0.0	0.0	10.0	25.0
7-02	7.0	0.0	5.0	0.0	0.0	10.0	0.0	0.0	15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	453.3
7-03	7.0	0.0	5.0	0.0	0.0	5.0	0.0	0.0	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	453.3
7-04	1.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	453.3
7-05	0.0	0.0	5.0	0.0	0.0	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	453.3
7-06	0.0	0.0	5.0	0.0	0.0	15.0	0.0	0.0	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	453.3
7-07	0.0	0.0	5.0	0.0	0.0	10.0	0.0	0.0	15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	453.3
7-08	0.0	0.0	5.0	0.0	0.0	5.0	0.0	0.0	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	453.3
7-09	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	453.3
7-10	0.0	0.0	5.0	0.0	0.0	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	453.3
7-11	0.0	0.0	5.0	0.0	0.0	15.0	0.0	0.0	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	453.3
7-12	0.0	0.0	5.0	0.0	0.0	10.0	0.0	0.0	15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	453.3
7-13	0.0	0.0	5.0	0.0	0.0	5.0	0.0	0.0	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	453.3
7-14	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	453.3
7-15	0.0	0.0	5.0	0.0	0.0	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	453.3
7-16	0.0	0.0	5.0	0.0	0.0	15.0	0.0	0.0	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	453.3
7-17	0.0	0.0	5.0	0.0	0.0	10.0	0.0	0.0	15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	453.3
7-18	0.0	0.0	5.0	0.0	0.0	5.0	0.0	0.0	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	453.3
7-19	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	453.3
7-20	0.0	0.0	5.0	0.0	0.0	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	453.3
7-21	0.0	0.0	5.0	0.0	0.0	15.0	0.0	0.0	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	453.3
7-22	0.0	0.0	5.0	0.0	0.0	10.0	0.0	0.0	15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	453.3
7-23	0.0	0.0	5.0	0.0	0.0	5.0	0.0	0.0	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	453.3
7-24	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	453.3
7-25	0.0	0.0	5.0	0.0	0.0	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	453.3
7-26	0.0	0.0	5.0	0.0	0.0	15.0	0.0	0.0	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	453.3
7-27	0.0	0.0	5.0	0.0	0.0	10.0	0.0	0.0	15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	453.3
7-28	0.0	0.0	5.0	0.0	0.0	5.0	0.0	0.0	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	453.3
7-29	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	453.3
7-30	0.0	0.0	5.0	0.0	0.0	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	453.3
7-31	0.0	0.0	5.0	0.0	0.0	15.0	0.0	0.0	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	453.3

Irrigation Interval 5.0 da, TRAN 25.0 mm, Area 6.80 ha, Irrigation efficiency 75.0%

Date	Rain U.R.	A.P.	A.R.	S.V.	R.W.	A.R.	S.V.	R.W.	A.R.	S.V.	R.W.	A.R.	S.V.	R.W.	A.R.	S.V.	R.W.	Total
8.01	15.4	12.3	5.0	10.0	0.0	0.0	20.0	5.0	0.0	0.0	20.0	12.3	12.7	20.0	12.3	0.0	17.3	172.7
8.02	5.5	4.4	5.0	4.4	0.0	19.4	4.4	0.0	19.4	4.4	0.0	19.4	4.4	0.0	19.4	4.4	0.0	172.7
8.03	0.0	0.0	5.0	0.0	0.0	14.4	0.0	0.0	14.4	0.0	0.0	14.4	0.0	0.0	14.4	0.0	0.0	172.7
8.04	0.0	0.0	5.0	0.0	0.0	14.4	0.0	0.0	14.4	0.0	0.0	14.4	0.0	0.0	14.4	0.0	0.0	172.7
8.05	1.0	0.0	5.0	0.0	0.0	15.0	0.0	15.0	0.0	0.0	15.0	0.0	0.0	0.0	0.0	0.0	0.0	172.7
8.06	0.0	0.0	5.0	0.0	0.0	15.0	0.0	0.0	15.0	0.0	0.0	15.0	0.0	0.0	15.0	0.0	0.0	172.7
8.07	6.6	5.4	5.0	0.0	0.0	10.0	0.0	0.0	15.0	0.0	0.0	15.0	0.0	0.0	15.0	0.0	0.0	172.7
8.08	1.2	0.0	5.0	0.0	0.0	10.4	5.4	0.0	20.0	5.4	0.0	20.0	5.4	0.0	20.0	5.4	0.0	172.7
8.09	0.0	0.0	5.0	0.0	0.0	10.4	0.0	0.0	15.0	0.0	0.0	15.0	0.0	0.0	15.0	0.0	0.0	172.7
8.10	0.0	0.0	5.0	0.0	0.0	10.4	0.0	0.0	15.0	0.0	0.0	15.0	0.0	0.0	15.0	0.0	0.0	172.7
8.11	0.0	0.0	5.0	0.0	0.0	10.4	0.0	0.0	15.0	0.0	0.0	15.0	0.0	0.0	15.0	0.0	0.0	172.7
8.12	4.0	0.0	5.0	0.0	0.0	10.0	0.0	0.0	15.0	0.0	0.0	15.0	0.0	0.0	15.0	0.0	0.0	172.7
8.13	1.5	0.0	5.0	0.0	0.0	10.0	0.0	0.0	15.0	0.0	0.0	15.0	0.0	0.0	15.0	0.0	0.0	172.7
8.14	0.0	0.0	5.0	0.0	0.0	10.0	0.0	0.0	15.0	0.0	0.0	15.0	0.0	0.0	15.0	0.0	0.0	172.7
8.15	3.4	0.0	5.0	0.0	0.0	10.0	0.0	0.0	15.0	0.0	0.0	15.0	0.0	0.0	15.0	0.0	0.0	172.7
8.16	0.0	0.0	5.0	0.0	0.0	10.0	0.0	0.0	15.0	0.0	0.0	15.0	0.0	0.0	15.0	0.0	0.0	172.7
8.17	0.0	0.0	5.0	0.0	0.0	10.0	0.0	0.0	15.0	0.0	0.0	15.0	0.0	0.0	15.0	0.0	0.0	172.7
8.18	0.0	0.0	5.0	0.0	0.0	10.0	0.0	0.0	15.0	0.0	0.0	15.0	0.0	0.0	15.0	0.0	0.0	172.7
8.19	0.0	0.0	5.0	0.0	0.0	10.0	0.0	0.0	15.0	0.0	0.0	15.0	0.0	0.0	15.0	0.0	0.0	172.7
8.20	2.1	0.0	5.0	0.0	0.0	10.0	0.0	0.0	15.0	0.0	0.0	15.0	0.0	0.0	15.0	0.0	0.0	172.7
8.21	0.0	0.0	5.0	0.0	0.0	10.0	0.0	0.0	15.0	0.0	0.0	15.0	0.0	0.0	15.0	0.0	0.0	172.7
8.22	0.0	0.0	5.0	0.0	0.0	10.0	0.0	0.0	15.0	0.0	0.0	15.0	0.0	0.0	15.0	0.0	0.0	172.7
8.23	0.0	0.0	5.0	0.0	0.0	10.0	0.0	0.0	15.0	0.0	0.0	15.0	0.0	0.0	15.0	0.0	0.0	172.7
8.24	0.0	0.0	5.0	0.0	0.0	10.0	0.0	0.0	15.0	0.0	0.0	15.0	0.0	0.0	15.0	0.0	0.0	172.7
8.25	0.0	0.0	5.0	0.0	0.0	10.0	0.0	0.0	15.0	0.0	0.0	15.0	0.0	0.0	15.0	0.0	0.0	172.7
8.26	0.0	0.0	5.0	0.0	0.0	10.0	0.0	0.0	15.0	0.0	0.0	15.0	0.0	0.0	15.0	0.0	0.0	172.7
8.27	0.0	0.0	5.0	0.0	0.0	10.0	0.0	0.0	15.0	0.0	0.0	15.0	0.0	0.0	15.0	0.0	0.0	172.7
8.28	0.0	0.0	5.0	0.0	0.0	10.0	0.0	0.0	15.0	0.0	0.0	15.0	0.0	0.0	15.0	0.0	0.0	172.7
8.29	7.0	5.0	5.0	0.0	0.0	10.0	5.0	0.0	15.0	5.0	0.0	15.0	5.0	0.0	15.0	5.0	0.0	172.7
8.30	0.0	0.0	5.0	0.0	0.0	10.0	0.0	0.0	15.0	0.0	0.0	15.0	0.0	0.0	15.0	0.0	0.0	172.7
8.31	5.2	5.0	5.0	0.0	0.0	10.0	5.0	0.0	15.0	5.0	0.0	15.0	5.0	0.0	15.0	5.0	0.0	172.7

(.0023 m³/s) (.0052 m³/s) (.005 m³/s)

Ignition Interval 5.0 days ERR: 25.0 ppm 6.80 ha Irrigation efficiency 75.0%

Date	Run	U.R.	C.U.	A.R.	S.R.	R.W.	A.R.	S.R.	R.W.	A.R.	S.R.	R.W.	A.R.	S.R.	R.W.	Total
5:01	14.5	11.6	5.0	0.0	0.0	0.0	11.6	0.0	0.0	0.0	0.0	0.0	11.6	0.0	0.0	132.2
5:02	10.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	332.2
5:03	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	250.2
5:04	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	218.2
5:05	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	158.2
5:06	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	108.2
5:07	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	58.2
5:08	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.2
5:09	7.0	5.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	197.6
5:10	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	197.6
5:11	32.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	197.6
5:12	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	197.6
5:13	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	197.6
5:14	5.5	4.1	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	197.6
5:15	18.0	14.1	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	197.6
5:16	5.7	4.6	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	197.6
5:17	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	197.6
5:18	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	197.6
5:19	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	197.6
5:20	20.0	22.4	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	197.6
5:21	49.0	39.2	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	197.6
5:22	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	197.6
5:23	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	197.6
5:24	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	197.6
5:25	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	197.6
5:26	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	197.6
5:27	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	197.6
5:28	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	197.6
5:29	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	197.6
5:30	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	197.6
5:31	3.7	0.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	197.6

Irrigation Interval 5.0 days
 TRAF 25.0 mm
 Area 6.00 ha
 Irrigation efficiency 75.0%

Date	Rain	U.R.	C.U.	1.3	S.M.	R.V.	A.R.	S.V.	R.V.	A.R.	S.M.	R.V.	A.R.	S.V.	R.V.	S.I.(M)	Efficiency
6-01	0.0	0.0	5.0	0.0	0.0	15.0	0.0	0.0	0.0	0.0	0.0	5.0	0.0	0.0	10.0	25.0	153.3
6-02	1.0	0.0	5.0	0.0	0.0	10.0	0.0	0.0	0.0	0.0	0.0	5.0	0.0	0.0	10.0	25.0	153.3
6-03	0.0	0.0	5.0	0.0	0.0	15.0	0.0	0.0	0.0	0.0	0.0	5.0	0.0	0.0	10.0	25.0	153.3
6-04	0.0	0.0	5.0	0.0	0.0	10.0	0.0	0.0	0.0	0.0	0.0	5.0	0.0	0.0	10.0	25.0	153.3
6-05	0.0	0.0	5.0	0.0	0.0	15.0	0.0	0.0	0.0	0.0	0.0	5.0	0.0	0.0	10.0	25.0	153.3
6-06	0.0	0.0	5.0	0.0	0.0	15.0	0.0	0.0	0.0	0.0	0.0	5.0	0.0	0.0	10.0	25.0	153.3
6-07	0.0	0.0	5.0	0.0	0.0	10.0	0.0	0.0	0.0	0.0	0.0	5.0	0.0	0.0	10.0	25.0	153.3
6-08	0.0	0.0	5.0	0.0	0.0	15.0	0.0	0.0	0.0	0.0	0.0	5.0	0.0	0.0	10.0	25.0	153.3
6-09	0.0	0.0	5.0	0.0	0.0	10.0	0.0	0.0	0.0	0.0	0.0	5.0	0.0	0.0	10.0	25.0	153.3
6-10	0.0	0.0	5.0	0.0	0.0	15.0	0.0	0.0	0.0	0.0	0.0	5.0	0.0	0.0	10.0	25.0	153.3
6-11	0.0	0.0	5.0	0.0	0.0	10.0	0.0	0.0	0.0	0.0	0.0	5.0	0.0	0.0	10.0	25.0	153.3
6-12	0.0	0.0	5.0	0.0	0.0	15.0	0.0	0.0	0.0	0.0	0.0	5.0	0.0	0.0	10.0	25.0	153.3
6-13	0.0	0.0	5.0	0.0	0.0	10.0	0.0	0.0	0.0	0.0	0.0	5.0	0.0	0.0	10.0	25.0	153.3
6-14	0.0	0.0	5.0	0.0	0.0	15.0	0.0	0.0	0.0	0.0	0.0	5.0	0.0	0.0	10.0	25.0	153.3
6-15	3.0	10.1	0.0	10.4	0.0	10.4	10.4	0.0	15.4	10.0	0.0	20.0	5.0	0.0	20.0	0.0	1813.2
6-16	0.0	0.0	5.0	0.0	0.0	10.4	0.0	0.0	10.4	0.0	0.0	15.0	0.0	0.0	15.0	0.0	1813.2
6-17	1.2	0.0	5.0	0.0	0.0	10.4	0.0	0.0	10.4	0.0	0.0	15.0	0.0	0.0	15.0	0.0	1813.2
6-18	0.0	0.0	5.0	0.0	0.0	10.4	0.0	0.0	10.4	0.0	0.0	15.0	0.0	0.0	15.0	0.0	1813.2
6-19	0.0	0.0	5.0	0.0	0.0	10.4	0.0	0.0	10.4	0.0	0.0	15.0	0.0	0.0	15.0	0.0	1813.2
6-20	0.0	0.0	5.0	0.0	0.0	10.4	0.0	0.0	10.4	0.0	0.0	15.0	0.0	0.0	15.0	0.0	1813.2
6-21	0.0	0.0	5.0	0.0	0.0	15.0	0.0	0.0	15.0	0.0	0.0	10.0	0.0	0.0	15.0	0.0	1421.8
6-22	1.3	0.0	5.0	0.0	0.0	15.0	0.0	0.0	15.0	0.0	0.0	10.0	0.0	0.0	15.0	0.0	1421.8
6-23	22.3	17.8	5.0	15.0	0.0	20.0	10.0	0.0	15.0	0.0	0.0	10.0	0.0	0.0	10.0	0.0	193.6
6-24	19.0	15.2	5.0	5.0	0.0	20.0	5.0	0.0	15.0	0.0	0.0	10.0	0.0	0.0	10.0	0.0	193.6
6-25	0.0	0.0	0.0	0.0	0.0	20.0	0.0	0.0	15.0	0.0	0.0	10.0	0.0	0.0	10.0	0.0	193.6
6-26	0.0	0.0	5.0	0.0	0.0	20.0	0.0	0.0	15.0	0.0	0.0	10.0	0.0	0.0	10.0	0.0	193.6
6-27	9.0	7.2	5.0	5.0	0.0	20.0	7.2	0.0	12.2	0.0	0.0	10.0	0.0	0.0	10.0	0.0	107.2
6-28	0.0	0.0	5.0	0.0	0.0	20.0	0.0	0.0	12.2	0.0	0.0	10.0	0.0	0.0	10.0	0.0	107.2
6-29	0.0	0.0	5.0	0.0	0.0	20.0	0.0	0.0	12.2	0.0	0.0	10.0	0.0	0.0	10.0	0.0	107.2
6-30	0.0	0.0	5.0	0.0	0.0	20.0	0.0	0.0	12.2	0.0	0.0	10.0	0.0	0.0	10.0	0.0	107.2

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Irrigation Interval 5.0 days
 TRAIL 25.0 mm
 Area 6.80 ha
 Irrigation efficiency 75.0%

Date	Rain	U.R.	C.U.	A.R.	R.V.	A.R.	S.V.	A.R.	S.V.	A.R.	S.V.	Total
8.01	0.0	0.0	5.0	0.0	0.0	0.0	25.0	0.0	0.0	0.0	0.0	25.0
8.02	5.0	4.0	5.0	4.0	0.0	0.0	19.0	4.0	0.0	0.0	0.0	28.0
8.03	7.0	5.0	5.0	5.0	0.0	0.0	19.0	5.0	0.0	0.0	0.0	29.0
8.04	0.0	0.0	5.0	0.0	0.0	0.0	14.6	0.0	0.0	0.0	0.0	14.6
8.05	0.0	0.0	5.0	0.0	0.0	0.0	14.6	0.0	0.0	0.0	0.0	14.6
8.06	0.0	0.0	5.0	0.0	0.0	0.0	14.6	0.0	0.0	0.0	0.0	14.6
8.07	0.0	0.0	5.0	0.0	0.0	0.0	14.6	0.0	0.0	0.0	0.0	14.6
8.08	0.0	0.0	5.0	0.0	0.0	0.0	14.6	0.0	0.0	0.0	0.0	14.6
8.09	0.0	0.0	5.0	0.0	0.0	0.0	14.6	0.0	0.0	0.0	0.0	14.6
8.10	0.0	0.0	5.0	0.0	0.0	0.0	14.6	0.0	0.0	0.0	0.0	14.6
8.11	0.0	0.0	5.0	0.0	0.0	0.0	14.6	0.0	0.0	0.0	0.0	14.6
8.12	0.0	0.0	5.0	0.0	0.0	0.0	14.6	0.0	0.0	0.0	0.0	14.6
8.13	0.0	0.0	5.0	0.0	0.0	0.0	14.6	0.0	0.0	0.0	0.0	14.6
8.14	0.0	0.0	5.0	0.0	0.0	0.0	14.6	0.0	0.0	0.0	0.0	14.6
8.15	0.0	0.0	5.0	0.0	0.0	0.0	14.6	0.0	0.0	0.0	0.0	14.6
8.16	32.6	26.1	5.0	10.0	0.0	0.0	20.0	25.0	0.0	0.0	0.0	50.0
8.17	10.2	8.2	5.0	5.0	0.0	0.0	15.0	5.0	0.0	0.0	0.0	20.0
8.18	13.0	10.4	5.0	5.0	0.0	0.0	15.0	5.0	0.0	0.0	0.0	20.0
8.19	0.0	0.0	5.0	0.0	0.0	0.0	10.0	0.0	0.0	0.0	0.0	10.0
8.20	0.0	0.0	5.0	0.0	0.0	0.0	10.0	0.0	0.0	0.0	0.0	10.0
8.21	3.5	0.0	5.0	0.0	0.0	0.0	15.0	0.0	0.0	0.0	0.0	15.0
8.22	0.0	0.0	5.0	0.0	0.0	0.0	15.0	0.0	0.0	0.0	0.0	15.0
8.23	0.0	0.0	5.0	0.0	0.0	0.0	15.0	0.0	0.0	0.0	0.0	15.0
8.24	0.0	0.0	5.0	0.0	0.0	0.0	15.0	0.0	0.0	0.0	0.0	15.0
8.25	0.0	0.0	5.0	0.0	0.0	0.0	15.0	0.0	0.0	0.0	0.0	15.0
8.26	0.0	0.0	5.0	0.0	0.0	0.0	15.0	0.0	0.0	0.0	0.0	15.0
8.27	0.0	0.0	5.0	0.0	0.0	0.0	15.0	0.0	0.0	0.0	0.0	15.0
8.28	8.7	7.0	5.0	7.0	0.0	0.0	12.0	7.0	0.0	0.0	0.0	19.0
8.29	0.0	0.0	5.0	0.0	0.0	0.0	12.0	0.0	0.0	0.0	0.0	12.0
8.30	0.0	0.0	5.0	0.0	0.0	0.0	12.0	0.0	0.0	0.0	0.0	12.0
8.31	0.0	0.0	5.0	0.0	0.0	0.0	12.0	0.0	0.0	0.0	0.0	12.0

(.0039 m³/s)
 (.0046 m³/s)
 (.0052 m³/s)
 (.0005 m³/s)
 (.0043 m³/s)