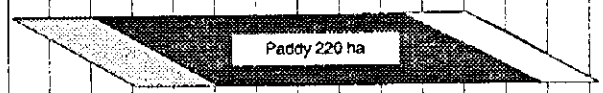
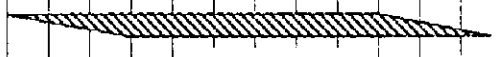
Future Water Requirement for Dry Season Paddy 220ha (Jatimlerek-Bunder) Case 1



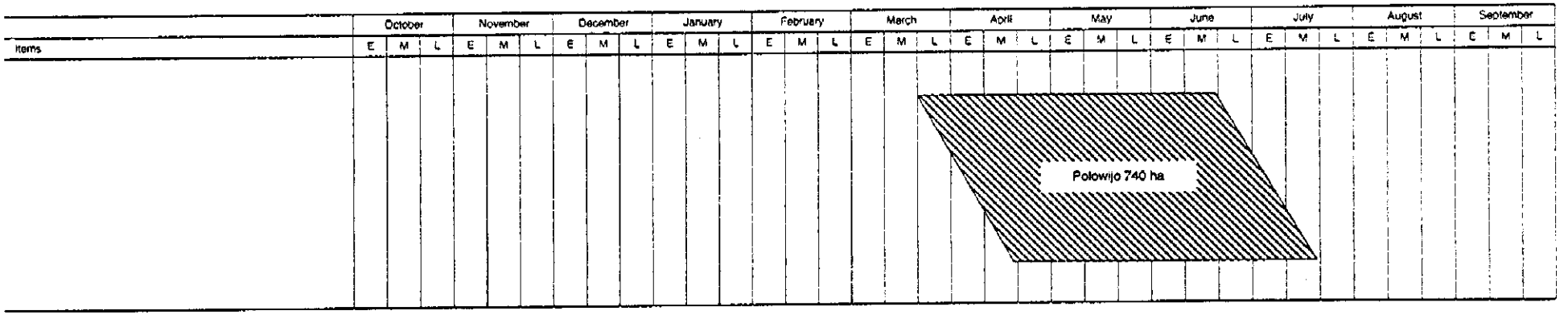
Items		October			November			December			January			February			March			April			May			June			July			August			September		
		E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L
A. Land Preparation Requirement																																					
1. Land Preparation Intensity																1/3	2/3	2/3	1/3																		
2. Land Preparation Requirement	(mm/day/area)	17.27	17.27	17.27	17.09	17.09	17.09	16.81	16.81	16.81	16.72	16.72	16.72	16.81	16.81	16.81	16.77	16.77	16.77	16.77	16.77	16.77	16.26	16.26	16.26	16.22	16.22	16.22	16.52	16.52	16.52	16.77	16.77	16.77	17.13	17.13	17.13
	(mm/day)															5.60	11.18	11.18	5.59																		
3. Water Layer Replacement Intensity																				1/3	1/3	1/3	1/3	1/3	1/3												
4. Water Layer Replacement Requirement	(mm/day/area)																			5.00	5.00	5.00	5.00	5.00	5.00												
	(mm/day)																			1.67	1.67	1.67	1.67	1.67	1.67												
5. Total Requirement for Land Preparation	(mm/day)															5.60	11.18	11.18	5.59	1.67	1.67	1.67	1.67	1.67	1.67												
B. Crop Water Requirement																																					
1. Crop Intensity																		1/3	2/3	1	1	1	1	1	1	1	2/3	1/3									
2. Crop Coefficient																		1.10	1.10	1.10	1.07	1.05	1.05	0.98	0.32	0.00											
(HYV)																			1.10	1.10	1.10	1.07	1.05	1.05	0.98	0.32	0.00										
																				1.10	1.10	1.10	1.07	1.05	1.05	0.98	0.32	0.00									
Weighted average																		1.10	1.10	1.10	1.09	1.07	1.06	1.03	0.78	0.43	0.16	0.00									
3. Potential ET (ETo)	(mm/day/area)	5.10	5.10	5.10	4.70	4.70	4.70	4.50	4.50	4.50	4.30	4.30	4.30	4.50	4.50	4.50	4.40	4.40	4.40	4.40	4.40	4.40	3.70	3.70	3.70	3.60	3.60	3.60	3.80	3.80	3.80	4.40	4.40	4.40	4.80	4.80	4.80
4. Consumptive Use (ETc)	(mm/day/area)																	4.84	4.84	4.84	4.80	4.72	3.91	3.80	2.90	1.56	0.58	0.00									
5. Percolation	(mm/day/area)																	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00										
6. Crop Water Requirement	(mm/day/area)																	7.84	7.84	7.84	7.80	7.72	6.91	6.80	5.90	4.56	3.58										
	(mm/day)																	2.61	5.23	7.84	7.80	7.72	6.91	6.80	5.90	4.56	2.39										
C. Effective Rainfall	(mm/day)	0.48	1.91	0.58	2.39	2.87	2.51	5.65	6.84	2.78	4.90	6.89	5.37	5.32	5.68	4.38	7.81	3.00	2.57	2.29	2.05	0.81	2.15	0.78	0.46	1.00	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
D. Net Field Water Requirement	(mm/day)	-0.48	-1.91	-0.58	-2.39	-2.87	-2.51	-5.65	-6.84	-2.78	-4.90	-6.89	-5.37	-5.32	-5.68	1.22	3.37	10.79	8.25	7.22	7.41	8.58	6.42	7.68	7.10	3.56	2.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
D. Net Field Water Requirement	(mm/day)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.22	3.37	10.79	8.25	7.22	7.41	8.58	6.42	7.68	7.10	3.56	2.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	(l/sec/ha)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.39	1.25	0.95	0.84	0.86	0.99	0.74	0.89	0.82	0.41	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E. Irrigation Efficiency		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
F. Unit Diversion Requirement	(l/sec/ha)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.28	0.78	2.50	1.91	1.67	1.72	1.99	1.49	1.78	1.64	0.82	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G. Diversion Requirement	(m3/sec)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.5	0.4	0.4	0.4	0.4	0.3	0.4	0.4	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Future Water Requirement for Polowijo 20ha (Jatimlerek-Bunder) Case 1



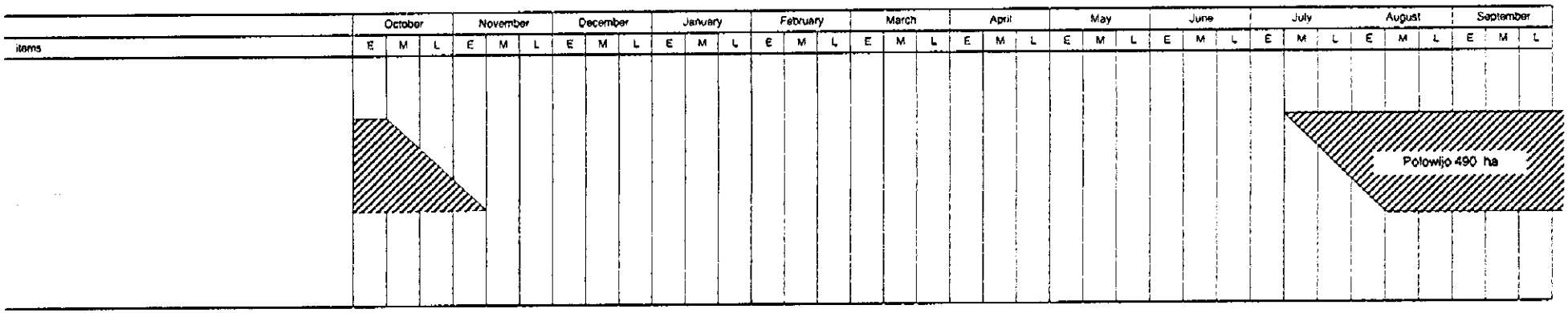
Items		October			November			December			January			February			March			April			May			June			July			August			September		
		E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L
A. Crop Water Requirement																																						
1. Crop Intensity							1/3	2/3	1	1	1	1	1	1	1	2/3	1/3																					
2. Crop Coefficient							0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73																					
3. Potential ET (ETo)	(mm/day/area)	5.10	5.10	5.10	4.70	4.70	4.70	4.50	4.50	4.50	4.30	4.30	4.30	4.50	4.50	4.50	4.40	4.40	4.40	4.40	4.40	4.40	3.70	3.70	3.70	3.60	3.60	3.60	3.80	3.80	3.80	4.40	4.40	4.40	4.80	4.80	4.80
4. Consumptive Use (ETc)	(mm/day/area)						3.43	3.29	3.29	3.29	3.14	3.14	3.14	3.29	3.29	3.29	3.21																				
7. Crop Water Requirement	(mm/day)						1.14	2.19	3.29	3.29	3.14	3.14	3.14	3.29	3.29	2.19	1.07																				
B. Effective Rain	(mm/day)	0.00	0.00	0.00	0.00	0.00	3.28	7.06	8.47	3.61	6.09	8.41	6.65	6.50	6.92	5.41	9.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C. Net Field Requirement	(mm/day)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	(l/sec/ha)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E. Irrigation Efficiency		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
F. Unit Diversion Requirement	(l/sec/ha)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G. Diversion Requirement	(m3/sec)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Future Water Requirement for Polowijo 740ha (Jatimlerek-Bunder)



Items		October			November			December			January			February			March			April			May			June			July			August			September		
		E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L
A. Crop Water Requirement																																					
1. Crop Intensity																			1/3	2/3	1	1	1	1	1	1	1	2/3	1/3								
2. Crop Coefficient																			0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73								
3. Potential ET (ETo)	(mm/day/area)	5.10	5.10	5.10	4.70	4.70	4.70	4.50	4.50	4.50	4.30	4.30	4.30	4.50	4.50	4.50	4.40	4.40	4.40	4.40	4.40	4.40	3.70	3.70	3.70	3.60	3.60	3.60	3.80	3.80	3.80	4.40	4.40	4.40	4.60	4.60	4.60
4. Consumptive Use (ETc)	(mm/day/area)																		3.21	3.21	3.21	3.21	2.70	2.70	2.70	2.63	2.63	2.63	2.77								
7. Crop Water Requirement	(mm/day)																		1.07	2.14	3.21	3.21	2.70	2.70	2.70	2.63	2.63	1.75	0.92								
B. Effective Rain	(mm/day)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.32	2.95	2.66	1.10	2.66	1.02	0.61	1.26	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C. Net Field Requirement	(mm/day)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.55	2.11	0.04	1.68	2.09	1.37	2.32	1.75	0.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	(l/sec/ha)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.24	0.00	0.19	0.24	0.16	0.27	0.20	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E. Irrigation Efficiency		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
F. Unit Diversion Requirement	(l/sec/ha)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.49	0.01	0.39	0.48	0.32	0.54	0.41	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G. Diversion Requirement	(m3/sec)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	0.0	0.3	0.4	0.2	0.4	0.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Future Water Requirement for Polowijo 490ha (Jatimlerek-Bunder) Case 1



items		October			November			December			January			February			March			April			May			June			July			August			September		
		E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L
A. Crop Water Requirement																																					
1. Crop Intensity		1	2/3	1/3																									1/3	2/3	1	1	1	1	1	1
2. Crop Coefficient		0.73	0.73	0.73																									0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73
3. Potential ET (ETo)	(mm/day/area)	5.10	5.10	5.10	4.70	4.70	4.70	4.50	4.50	4.50	4.30	4.30	4.30	4.50	4.50	4.50	4.40	4.40	4.40	4.40	4.40	4.40	3.70	3.70	3.70	3.60	3.60	3.60	3.80	3.80	3.80	4.40	4.40	4.40	4.80	4.80	4.80
4. Consumptive Use (ETc)	(mm/day/area)	3.72	3.72	3.72																									2.77	2.77	3.21	3.21	3.21	3.50	3.50	3.50
7. Crop Water Requirement	(mm/day)	3.72	2.48	1.24																									0.92	1.85	3.21	3.21	3.21	3.50	3.50	3.50
B. Effective Rain	(mm/day)	0.71	2.62	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C. Net Field Requirement	(mm/day)	3.02	0.00	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92	1.85	3.21	3.21	3.21	3.50	3.50	3.50
	(l/sec/ha)	0.35	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.21	0.37	0.37	0.37	0.41	0.41	0.41
E. Irrigation Efficiency		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
F. Unit Diversion Requirement	(l/sec/ha)	0.70	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.43	0.74	0.74	0.74	0.81	0.81	0.81
G. Diversion Requirement	(m3/sec)	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.4	0.4	0.4	0.4	0.4	0.4

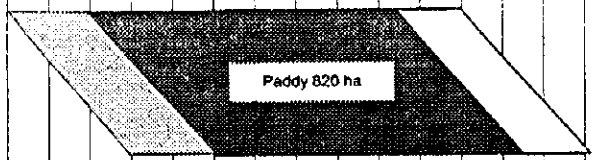
Future Water Requirement for Sugarcane 500ha (Jatimlerek-Bunder) Case 1

Items		October			November			December			January			February			March			April			May			June			July			August			September		
		E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L
Sugarcane 500 ha																																					
A. Crop Water Requirement																																					
1. Crop Intensity		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2. Crop Coefficient		0.99	0.99	0.98	0.94	0.89	0.85	0.84	0.82	0.80	0.79	0.77	0.76	0.75	0.74	0.73	0.73	0.73	0.73	0.73	0.73	0.74	0.78	0.83	0.87	0.88	0.90	0.92	0.93	0.95	0.96	0.97	0.98	0.99	0.99	0.99	0.99
3. Potential ET (ETo)	(mm/day/area)	5.10	5.10	5.10	4.70	4.70	4.70	4.50	4.50	4.50	4.30	4.30	4.30	4.50	4.50	4.50	4.40	4.40	4.40	4.40	4.40	4.40	3.70	3.70	3.70	3.50	3.60	3.60	3.80	3.80	3.80	4.40	4.40	4.40	4.80	4.80	4.80
4. Consumptive Use (ETc)	(mm/day/area)	5.05	5.05	5.00	4.42	4.18	4.00	3.78	3.69	3.60	3.40	3.31	3.27	3.38	3.33	3.29	3.21	3.21	3.21	3.21	3.21	3.26	2.89	3.07	3.22	3.17	3.24	3.31	3.53	3.61	3.65	4.27	4.31	4.36	4.75	4.75	4.75
7. Crop Water Requirement	(mm/day)	5.05	5.05	5.00	4.42	4.18	4.00	3.78	3.69	3.60	3.40	3.31	3.27	3.38	3.33	3.29	3.21	3.21	3.21	3.21	3.21	3.26	2.89	3.07	3.22	3.17	3.24	3.31	3.53	3.61	3.65	4.27	4.31	4.36	4.75	4.75	4.75
B. Effective Rain	(mm/day)	0.78	2.88	0.92	3.40	3.97	3.44	7.38	8.78	3.71	6.24	8.55	6.73	6.55	6.95	5.41	9.55	3.85	3.32	2.95	2.56	1.10	2.71	1.06	0.65	1.34	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C. Net Field Requirement	(mm/day)	4.27	2.18	4.08	1.02	0.21	0.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.26	0.55	2.15	0.17	2.01	2.57	1.83	2.91	3.31	3.53	3.61	3.65	4.27	4.31	4.36	4.75	4.75	4.75
	(l/sec/ha)	0.49	0.25	0.47	0.12	0.02	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.06	0.25	0.02	0.23	0.30	0.21	0.34	0.38	0.41	0.42	0.42	0.49	0.50	0.50	0.55	0.55	0.55
E. Irrigation Efficiency		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.60	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
F. Unit Diversion Requirement	(l/sec/ha)	0.99	0.50	0.94	0.24	0.05	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.13	0.50	0.04	0.47	0.59	0.42	0.67	0.77	0.82	0.84	0.84	0.99	1.00	1.01	1.10	1.10	1.10
G. Diversion Requirement	(m3/sec)	0.5	0.3	0.5	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.0	0.2	0.3	0.2	0.3	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.6	0.6	0.6

Menturus Rubber Dam Diversion Requirements (Case 1)

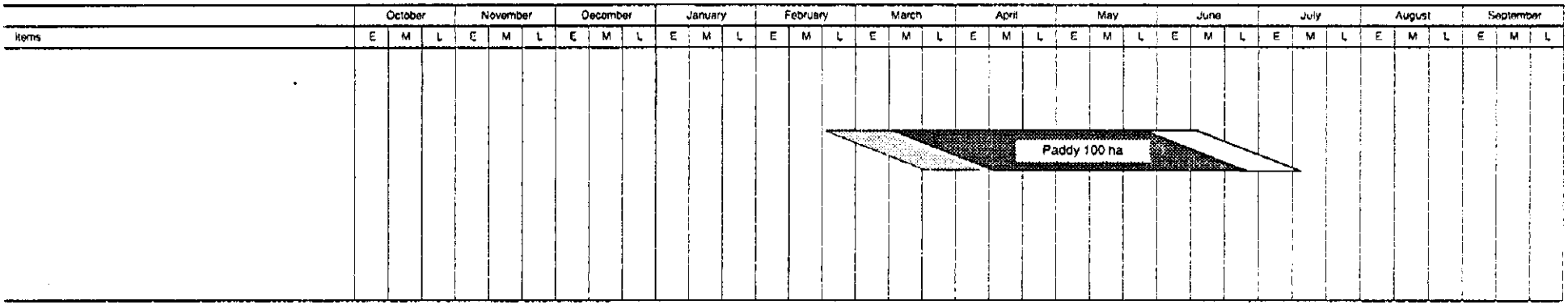
		October			November			December			January			February			March			April			May			June			July			August			September		
		E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L
Rainy Season Paddy 820ha																																					
A. Net Field Water Requirement	(l/sec/ha)	0.00	0.00	0.60	1.17	1.39	1.08	0.56	0.61	0.87	0.61	0.52	0.51	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B. Irrigation Efficiency		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
C. Unit Diversion Requirement	(l/sec/ha)	0.00	0.00	1.20	2.33	2.78	2.16	1.12	1.21	1.74	1.22	1.05	1.02	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
D. Diversion Reruirement	(m3/sec)	0.0	0.0	1.0	1.9	2.3	1.8	0.9	1.0	1.4	1.0	0.9	0.8	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dry Season Paddy 100ha																																					
A. Net Field Water Requirement	(l/sec/ha)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.61	1.33	0.96	0.93	0.80	0.89	0.83	0.90	0.83	0.41	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B. Irrigation Efficiency		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
C. Unit Diversion Requirement	(l/sec/ha)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.31	1.22	2.66	1.93	1.86	1.59	1.78	1.65	1.80	1.67	0.83	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
D. Diversion Reruirement	(m3/sec)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Polowijo 160ha																																					
A. Net Field Water Requirement	(l/sec/ha)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B. Irrigation Efficiency		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
C. Unit Diversion Requirement	(l/sec/ha)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
D. Diversion Reruirement	(m3/sec)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Polowijo 750ha																																					
A. Net Field Water Requirement	(l/sec/ha)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.12	0.10	0.21	0.26	0.16	0.27	0.16	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B. Irrigation Efficiency		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
C. Unit Diversion Requirement	(l/sec/ha)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.23	0.21	0.42	0.51	0.32	0.54	0.31	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
D. Diversion Reruirement	(m3/sec)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.3	0.4	0.2	0.4	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Polowijo 720ha																																					
A. Net Field Water Requirement	(l/sec/ha)	0.36	0.10	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.21	0.37	0.37	0.37	0.39	0.40	0.39
B. Irrigation Efficiency		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
C. Unit Diversion Requirement	(l/sec/ha)	0.72	0.20	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.42	0.74	0.74	0.74	0.79	0.80	0.78
D. Diversion Reruirement	(m3/sec)	0.5	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.5	0.5	0.5	0.6	0.6	0.6
Sugarcane 2380ha																																					
A. Net Field Water Req.	(l/sec/ha)	0.51	0.38	0.47	0.29	0.14	0.17	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.15	0.00	0.12	0.12	0.25	0.31	0.21	0.34	0.33	0.40	0.37	0.42	0.49	0.50	0.50	0.54	0.54	0.53
B. Irrigation Efficiency		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
C. Unit Diversion Req.	(l/sec/ha)	1.02	0.75	0.95	0.58	0.29	0.34	0.00	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.29	0.00	0.24	0.24	0.49	0.62	0.43	0.68	0.67	0.81	0.74	0.84	0.99	1.00	1.01	1.07	1.09	1.07
D. Diversion Reruirement	(m3/sec)	2.4	1.8	2.2	1.4	0.7	0.8	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.7	0.0	0.6	0.6	1.2	1.5	1.0	1.6	1.6	1.9	1.8	2.0	2.4	2.4	2.4	2.6	2.6	2.5
Total Diversion Requirement	(m3/sec)	2.9	1.9	3.3	3.3	3.0	2.6	0.9	1.0	1.9	1.0	0.9	0.8	0.1	0.0	0.0	0.1	0.4	0.2	0.9	0.2	1.0	1.0	1.7	2.1	1.3	2.1	1.8	2.1	1.9	2.3	2.9	2.9	2.9	3.2	3.2	3.1

Future Water Requirement for Rainy Season Paddy 820ha (Menturus Rubber Dam) Case 1



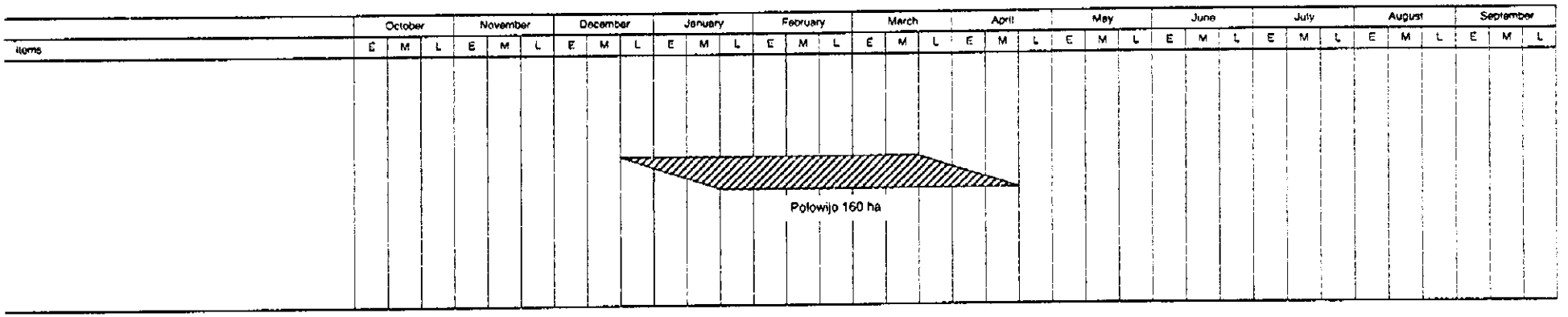
Items		October			November			December			January			February			March			April			May			June			July			August			September		
		E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L
A. Land Preparation Requirement																																						
1. Land Preparation Intensity				1/3	2/3	2/3	1/3																															
2. Land Preparation Requirement	(mm/day/area)	17.27	17.27	17.27	17.09	17.09	17.09	16.81	16.81	16.81	16.72	16.72	16.72	16.81	16.81	16.81	16.77	16.77	16.77	16.77	16.77	16.77	16.26	16.26	16.26	16.22	16.22	16.22	16.52	16.52	16.52	16.77	16.77	16.77	17.13	17.13	17.13	
	(mm/day)			5.76	11.39	11.39	5.70																															
3. Water Layer Replacement Intensity								1/3	1/3	1/3	1/3	1/3	1/3																									
4. Water Layer Replacement Requirement	(mm/day/area)							5.00	5.00	5.00	5.00	5.00	5.00																									
	(mm/day)							1.67	1.67	1.67	1.67	1.67	1.67																									
5. Total Requirement for Land Preparation	(mm/day)	0.00	0.00	5.76	11.39	11.39	5.70	1.67	1.67	1.67	1.67	1.67	1.67																									
B. Crop Water Requirement																																						
1. Crop Intensity						1/3	2/3	1	1	1	1	1	1	1	2/3	1/3																						
2. Crop Coefficient						1.10	1.10	1.10	1.07	1.05	1.05	0.98	0.32	0.00																								
(HYV)							1.10	1.10	1.10	1.07	1.05	1.05	0.98	0.32	0.00																							
								1.10	1.10	1.10	1.07	1.05	1.05	0.98	0.32	0.00																						
Weighted average						1.10	1.10	1.10	1.09	1.07	1.06	1.03	0.78	0.43	0.16	0.00																						
3. Potential ET (ETo)	(mm/day/area)	5.10	5.10	5.10	4.70	4.70	4.70	4.50	4.50	4.50	4.30	4.30	4.30	4.50	4.50	4.50	4.40	4.40	4.40	4.40	4.40	4.40	3.70	3.70	3.70	3.60	3.60	3.60	3.80	3.80	3.80	4.40	4.40	4.40	4.80	4.80	4.80	
4. Consumptive Use (ETc)	(mm/day/area)					5.17	5.17	4.95	4.91	4.83	4.54	4.41	3.37	1.95	0.72	0.00																						
5. Percolation	(mm/day/area)					3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00																							
6. Crop Water Requirement	(mm/day/area)					8.17	8.17	7.95	7.91	7.83	7.54	7.41	6.37	4.95	3.72																							
	(mm/day)					2.72	5.45	7.95	7.91	7.83	7.54	7.41	6.37	4.95	2.48																							
C. Effective Rainfall	(mm/day)	0.40	1.16	0.57	1.31	2.09	1.80	4.76	4.33	2.00	3.95	4.56	3.63	4.26	4.19	4.25	5.93	2.28	2.49	1.48	2.58	1.69	1.43	0.69	0.37	0.99	0.21	0.29	0.03	0.26	0.01	0.00	0.00	0.00	0.07	0.03	0.09	
D. Net Field Water Requirement	(mm/day)	0.00	0.00	5.18	10.08	12.02	9.34	4.86	5.25	7.50	5.26	4.52	4.40	0.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	(l/sec/ha)	0.00	0.00	0.60	1.17	1.39	1.08	0.56	0.61	0.87	0.61	0.52	0.51	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
E. Irrigation Efficiency		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	
F. Unit Diversion Requirement	(l/sec/ha)	0.00	0.00	1.20	2.33	2.78	2.16	1.12	1.21	1.74	1.22	1.05	1.02	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
G. Diversion Requirement	(m3/sec)	0.0	0.0	1.0	1.9	2.3	1.8	0.9	1.0	1.4	1.0	0.9	0.8	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

Future Water Requirement for Dry Season Paddy 100ha (Menturus Rubber Dam) Case 1



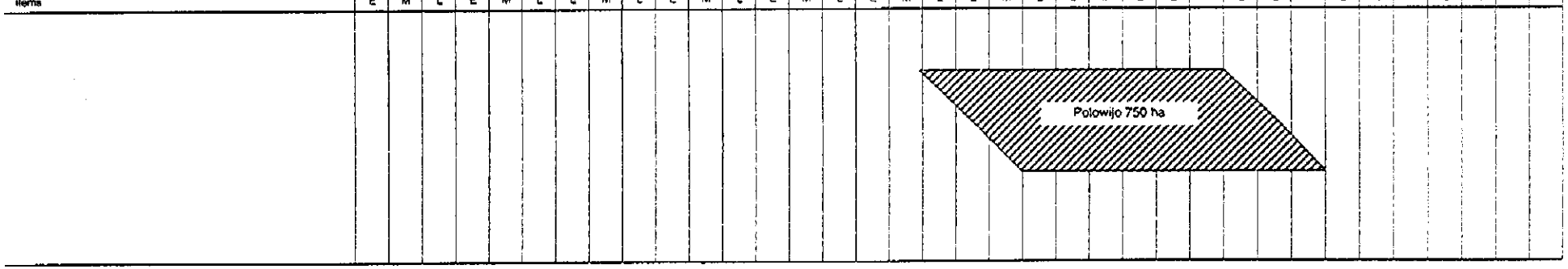
Items		October			November			December			January			February			March			April			May			June			July			August			September		
		E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L
A. Land Preparation Requirement																																					
1. Land Preparation Intensity																1/3	2/3	2/3	1/3																		
2. Land Preparation Requirement	(mm/day/area)	17.27	17.27	17.27	17.09	17.09	17.09	16.81	16.81	16.81	16.72	16.72	16.72	16.81	16.81	16.81	16.77	16.77	16.77	16.77	16.77	16.77	16.26	16.26	16.26	16.22	16.22	16.22	16.52	16.52	16.52	16.77	16.77	16.77	17.13	17.13	17.13
	(mm/day)															5.60	11.18	11.18	5.59																		
3. Water Layer Replacement Intensity																				1/3	1/3	1/3	1/3	1/3	1/3												
4. Water Layer Replacement Requirement	(mm/day/area)																			5.00	5.00	5.00	5.00	5.00	5.00												
	(mm/day)																			1.67	1.67	1.67	1.67	1.67	1.67												
5. Total Requirement for Land Preparation	(mm/day)															5.60	11.18	11.18	5.59	1.67	1.67	1.67	1.67	1.67	1.67												
B. Crop Water Requirement																																					
1. Crop Intensity																		1/3	2/3	1	1	1	1	1	1	1	2/3	1/3									
2. Crop Coefficient																		1.10	1.10	1.10	1.07	1.05	1.05	0.98	0.32	0.00											
(HYV)																			1.10	1.10	1.10	1.07	1.05	1.05	0.98	0.32	0.00										
																				1.10	1.10	1.10	1.07	1.05	1.05	0.98	0.32	0.00									
Weighted average																		1.10	1.10	1.10	1.09	1.07	1.06	1.03	0.76	0.43	0.16	0.00									
3. Potential ET (ETo)	(mm/day/area)	5.10	5.10	5.10	4.70	4.70	4.70	4.50	4.50	4.50	4.30	4.30	4.30	4.50	4.50	4.50	4.40	4.40	4.40	4.40	4.40	4.40	3.70	3.70	3.70	3.60	3.60	3.60	3.80	3.80	3.80	4.40	4.40	4.40	4.80	4.80	4.80
4. Consumptive Use (ETc)	(mm/day/area)																	4.84	4.84	4.84	4.80	4.72	3.91	3.80	2.90	1.56	0.58	0.00									
5. Percolation	(mm/day/area)																	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00										
6. Crop Water Requirement	(mm/day/area)																	7.84	7.84	7.84	7.80	7.72	6.91	6.80	5.90	4.56	3.58										
	(mm/day)																	2.61	5.23	7.84	7.80	7.72	6.91	6.80	5.90	4.56	2.39										
C. Effective Rainfall	(mm/day)	0.40	1.16	0.57	1.31	2.09	1.80	4.76	4.33	2.00	3.95	4.56	3.63	4.26	4.19	4.25	5.93	2.28	2.49	1.48	2.58	1.69	1.43	0.69	0.37	0.99	0.21	0.29	0.03	0.26	0.01	0.00	0.00	0.00	0.07	0.03	0.09
D. Net Field Water Requirement	(mm/day)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.35	5.25	11.51	8.33	8.02	6.88	7.70	7.15	7.78	7.20	3.57	2.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	(l/sec/ha)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.61	1.33	0.96	0.93	0.80	0.89	0.83	0.90	0.83	0.41	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E. Irrigation Efficiency		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
F. Unit Diversion Requirement	(l/sec/ha)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.31	1.22	2.66	1.93	1.86	1.59	1.78	1.65	1.80	1.67	0.83	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G. Diversion Requirement	(m3/sec)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Future Water Requirement for Polowijo 160ha (Menturus Rubber Dam) Case 1



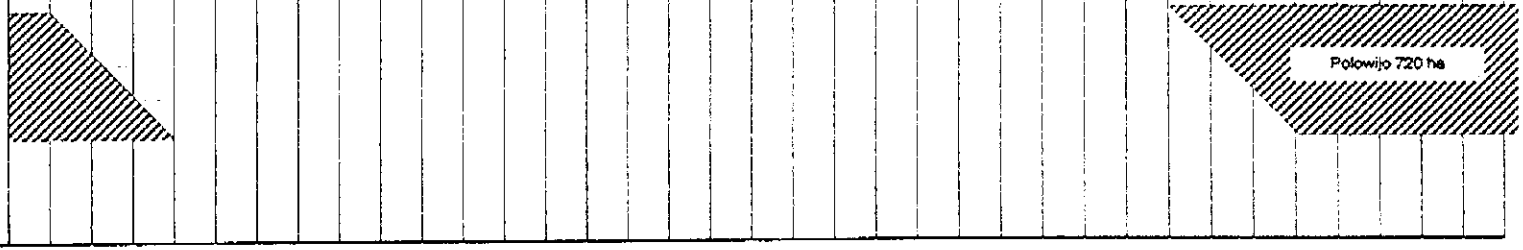
Items		October			November			December			January			February			March			April			May			June			July			August			September		
		E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L
A. Crop Water Requirement																																					
1. Crop Intensity										1/3	2/3	1	1	1	1	1	1	1	2/3	1/3																	
2. Crop Coefficient										0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73																	
3. Potential ET (ETo)	(mm/day/area)	5.10	5.10	5.10	4.70	4.70	4.70	4.50	4.50	4.50	4.30	4.30	4.30	4.50	4.50	4.50	4.40	4.40	4.40	4.40	4.40	4.40	3.70	3.70	3.70	3.60	3.60	3.60	3.80	3.80	3.80	4.40	4.40	4.40	4.80	4.80	4.80
4. Consumptive Use (ETc)	(mm/day/area)									3.29	3.14	3.14	3.14	3.29	3.29	3.29	3.21	3.21	3.21	3.21																	
7. Crop Water Requirement	(mm/day)									1.10	2.09	3.14	3.14	3.29	3.29	3.29	3.21	3.21	2.14	1.07																	
B. Effective Rain	(mm/day)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.64	4.96	5.69	4.56	5.27	5.18	5.25	7.35	2.97	3.22	1.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C. Net Field Requirement	(mm/day)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	(l/sec/ha)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E. Irrigation Efficiency		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
F. Unit Diversion Requirement	(l/sec/ha)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G. Diversion Requirement	(m3/sec)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Future Water Requirement for Polowijo 750ha (Menturus Rubber Dam)



Items		October			November			December			January			February			March			April			May			June			July			August			September		
		E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L
A. Crop Water Requirement																																					
1. Crop Intensity																			1/3	2/3	1	1	1	1	1	1	1	2/3	1/3								
2. Crop Coefficient																			0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73								
3. Potential ET (ETo)	(mm/day/area)	5.10	5.10	5.10	4.70	4.70	4.70	4.50	4.50	4.50	4.30	4.30	4.30	4.50	4.50	4.50	4.40	4.40	4.40	4.40	4.40	4.40	3.70	3.70	3.70	3.60	3.60	3.60	3.80	3.80	3.80	4.40	4.40	4.40	4.80	4.80	4.80
4. Consumptive Use (ETc)	(mm/day/area)																		3.21	3.21	3.21	3.21	2.70	2.70	2.70	2.63	2.63	2.63	2.77								
7. Crop Water Requirement	(mm/day)																		1.07	2.14	3.21	3.21	2.70	2.70	2.70	2.63	2.63	1.75	0.92								
B. Effective Rain	(mm/day)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.22	1.95	3.30	2.21	1.80	0.90	0.49	1.25	0.29	0.39	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C. Net Field Requirement	(mm/day)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19	0.00	1.00	0.90	1.80	2.21	1.37	2.34	1.36	0.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	(l/sec/ha)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.12	0.10	0.21	0.26	0.16	0.27	0.16	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E. Irrigation Efficiency		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
F. Unit Diversion Requirement	(l/sec/ha)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.23	0.21	0.42	0.51	0.32	0.54	0.31	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G. Diversion Requirement	(m3/sec)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.3	0.4	0.2	0.4	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Future Water Requirement for Polowijo 720ha (Menturus Rubber Dam) Case 1



Items		October			November			December			January			February			March			April			May			June			July			August			September		
		E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L
A. Crop Water Requirement																																					
1. Crop Intensity		1	2/3	1/3																											1/3	2/3	1	1	1	1	1	1
2. Crop Coefficient		0.73	0.73	0.73																											0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73
3. Potential ET (ETo)	(mm/day/area)	5.10	5.10	5.10	4.70	4.70	4.70	4.50	4.50	4.50	4.30	4.30	4.30	4.50	4.50	4.50	4.40	4.40	4.40	4.40	4.40	4.40	3.70	3.70	3.70	3.60	3.60	3.60	2.80	3.80	3.80	4.40	4.40	4.40	4.80	4.80	4.80
4. Consumptive Use (ETc)	(mm/day/area)	3.72	3.72	3.72																											2.77	2.77	3.21	3.21	3.21	3.50	3.50	3.50
7. Crop Water Requirement	(mm/day)	3.72	2.48	1.24																											0.92	1.85	3.21	3.21	3.21	3.50	3.50	3.50
B. Effective Rain	(mm/day)	0.59	1.63	0.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.37	0.02	0.00	0.00	0.00	0.11	0.04	0.14
C. Net Field Requirement	(mm/day)	3.13	0.85	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.56	1.63	3.21	3.21	3.21	3.40	3.46	3.37
	(l/sec/ha)	0.36	0.10	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.21	0.37	0.37	0.37	0.39	0.40	0.39
E. Irrigation Efficiency		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
F. Unit Diversion Requirement	(l/sec/ha)	0.72	0.20	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.42	0.74	0.74	0.74	0.79	0.80	0.78
G. Diversion Requirement	(m3/sec)	0.5	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.5	0.5	0.5	0.6	0.6	0.6

Future Water Requirement for Sugarcane 2380ha (Menturus Rubber Dam) Case 1

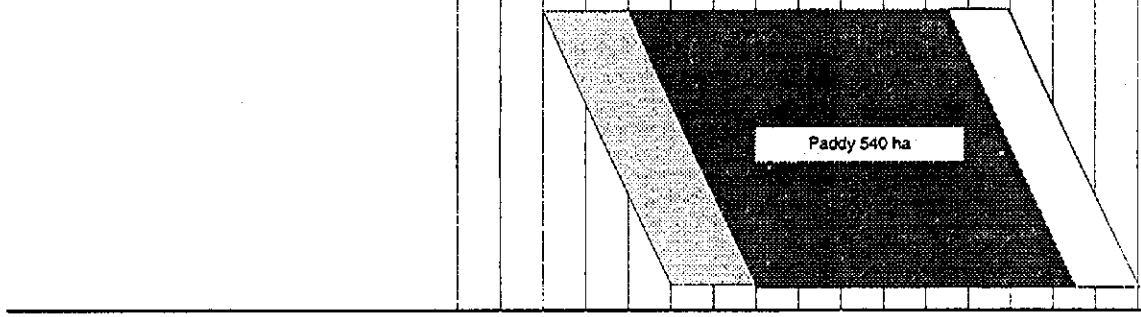
Sugarcane 2380 ha

Items		October			November			December			January			February			March			April			May			June			July			August			September		
		E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L
A. Crop Water Requirement																																					
1. Crop Intensity		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2. Crop Coefficient		0.99	0.99	0.98	0.94	0.89	0.85	0.84	0.82	0.80	0.79	0.77	0.76	0.75	0.74	0.73	0.73	0.73	0.73	0.73	0.73	0.74	0.78	0.83	0.87	0.88	0.90	0.92	0.93	0.95	0.96	0.97	0.98	0.99	0.99	0.99	0.99
3. Potential ET (ETo)	(mm/day/area)	5.10	5.10	5.10	4.70	4.70	4.70	4.50	4.50	4.50	4.30	4.30	4.30	4.50	4.50	4.50	4.40	4.40	4.40	4.40	4.40	4.40	3.70	3.70	3.70	3.60	3.60	3.60	3.80	3.80	3.80	4.40	4.40	4.40	4.80	4.80	4.80
4. Consumptive Use (ETc)	(mm/day/area)	5.05	5.05	5.00	4.42	4.18	4.00	3.78	3.69	3.60	3.40	3.31	3.27	3.38	3.33	3.29	3.21	3.21	3.21	3.21	3.21	3.26	2.89	3.07	3.22	3.17	3.24	3.31	3.53	3.61	3.65	4.27	4.31	4.36	4.75	4.75	4.75
7. Crop Water Requirement	(mm/day)	5.05	5.05	5.00	4.42	4.18	4.00	3.78	3.69	3.60	3.40	3.31	3.27	3.38	3.33	3.29	3.21	3.21	3.21	3.21	3.21	3.26	2.89	3.07	3.22	3.17	3.24	3.31	3.53	3.61	3.65	4.27	4.31	4.36	4.75	4.75	4.75
B. Effective Rain	(mm/day)	0.65	1.79	0.91	1.92	2.94	2.52	6.27	5.69	2.71	5.08	5.78	4.64	5.31	5.20	5.25	7.35	2.97	3.22	1.95	0.30	2.22	1.84	0.94	0.52	1.33	0.31	0.42	0.05	0.40	0.02	0.00	0.00	0.00	0.12	0.05	0.15
C. Net Field Requirement	(mm/day)	4.40	3.26	4.08	2.50	1.24	1.48	0.00	0.00	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.00	1.26	0.00	1.04	1.05	2.13	2.70	1.84	2.93	2.89	3.48	3.21	3.63	4.27	4.31	4.36	4.64	4.70	4.60
	(l/sec/ha)	0.51	0.38	0.47	0.29	0.14	0.17	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.15	0.00	0.12	0.12	0.25	0.31	0.21	0.34	0.33	0.40	0.37	0.42	0.49	0.50	0.50	0.54	0.54	0.53
E. Irrigation Efficiency		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
F. Unit Diversion Requirement	(l/sec/ha)	1.02	0.75	0.95	0.58	0.29	0.34	0.00	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.29	0.00	0.24	0.24	0.49	0.62	0.43	0.68	0.67	0.81	0.74	0.84	0.99	1.00	1.01	1.07	1.09	1.07
G. Diversion Requirement	(m3/sec)	2.4	1.8	2.2	1.4	0.7	0.8	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.7	0.0	0.6	0.6	1.2	1.5	1.0	1.6	1.6	1.9	1.8	2.0	2.4	2.4	2.4	2.6	2.6	2.5

Jatikulon Diversion Requirements (Case 1)

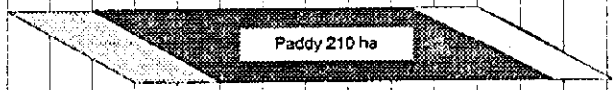
		October			November			December			January			February			March			April			May			June			July			August			September		
		E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L
Rainy Season Paddy 540ha																																					
A. Net Field Water Requirement	(l/sec/ha)	0.00	0.00	0.00	1.29	1.48	1.16	0.66	0.90	0.96	0.72	0.79	0.71	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B. Irrigation Efficiency		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
C. Unit Diversion Requirement	(l/sec/ha)	0.00	0.00	1.20	2.58	2.96	2.32	1.33	1.80	1.92	1.44	1.58	1.42	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
D. Diversion Requirement	(m3/sec)	0.0	0.0	0.6	1.4	1.6	1.3	0.7	1.0	1.0	0.8	0.9	0.8	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dry Season Paddy 210ha																																					
A. Net Field Water Requirement	(l/sec/ha)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.83	1.42	0.97	1.02	0.74	0.79	0.91	0.91	0.64	0.41	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B. Irrigation Efficiency		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
C. Unit Diversion Requirement	(l/sec/ha)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.34	1.65	2.83	1.95	2.04	1.47	1.58	1.82	1.82	1.69	0.83	0.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
D. Diversion Requirement	(m3/sec)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.6	0.4	0.4	0.3	0.3	0.4	0.4	0.4	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Polowijo 340ha																																					
A. Net Field Water Requirement	(l/sec/ha)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.15	0.22	0.27	0.16	0.27	0.17	0.20	0.08	0.10	0.06	0.00	0.00	0.00	0.00	0.00
B. Irrigation Efficiency		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
C. Unit Diversion Requirement	(l/sec/ha)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.31	0.44	0.54	0.32	0.55	0.33	0.41	0.16	0.21	0.12	0.00	0.00	0.00	0.00	0.00
D. Diversion Requirement	(m3/sec)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Polowijo 90ha																																					
A. Net Field Water Requirement	(l/sec/ha)	0.38	0.22	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.21	0.37	0.37	0.37	0.38	0.40	0.37
B. Irrigation Efficiency		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
C. Unit Diversion Requirement	(l/sec/ha)	0.75	0.44	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.42	0.74	0.74	0.74	0.76	0.79	0.75
D. Diversion Requirement	(m3/sec)	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1
Sugarcane 30ha																																					
A. Net Field Water Requirement	(l/sec/ha)	0.52	0.51	0.47	0.47	0.27	0.28	0.00	0.14	0.22	0.00	0.04	0.09	0.00	0.00	0.00	0.00	0.13	0.01	0.27	0.00	0.00	0.23	0.26	0.33	0.21	0.34	0.29	0.40	0.33	0.42	0.49	0.50	0.00	0.52	0.54	0.52
B. Irrigation Efficiency		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
C. Unit Diversion Requirement	(l/sec/ha)	1.05	1.02	0.95	0.94	0.53	0.56	0.00	0.28	0.44	0.00	0.09	0.18	0.00	0.00	0.00	0.00	0.26	0.02	0.53	0.00	0.00	0.45	0.52	0.65	0.43	0.68	0.58	0.79	0.66	0.84	0.99	1.00	1.01	1.05	1.08	1.03
D. Diversion Requirement	(m3/sec)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Diversion Requirement	(m3/sec)	0.1	0.0	0.6	1.4	1.6	1.3	0.7	1.0	1.0	0.8	0.9	0.8	0.2	0.0	0.1	0.3	0.6	0.4	0.4	0.3	0.3	0.5	0.6	0.6	0.3	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

Future Water Requirement for Rainy Season Paddy 540ha (Jatikulon) Case 1



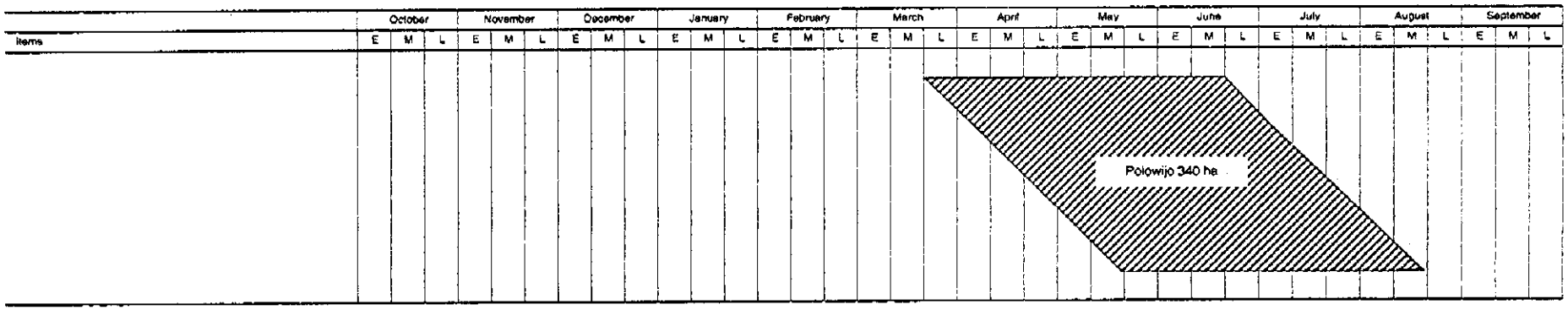
Items		October			November			December			January			February			March			April			May			June			July			August			September		
		E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L
A. Land Preparation Requirement																																					
1. Land Preparation Intensity				1/3	2/3	2/3	1/3																														
2. Land Preparation Requirement	(mm/day/area)	17.27	17.27	17.27	17.09	17.09	17.09	16.81	16.81	16.81	16.72	16.72	16.72	16.81	16.81	16.81	16.77	16.77	16.77	16.77	16.77	16.77	16.26	16.26	16.26	16.22	16.22	16.22	16.52	16.52	16.52	16.77	16.77	16.77	17.13	17.13	17.13
	(mm/day)			5.76	11.39	11.39	5.70																														
3. Water Layer Replacement Intensity								1/3	1/3	1/3	1/3	1/3	1/3																								
4. Water Layer Replacement Requirement	(mm/day/area)							5.00	5.00	5.00	5.00	5.00	5.00																								
	(mm/day)							1.67	1.67	1.67	1.67	1.67	1.67																								
5. Total Requirement for Land Preparation	(mm/day)			5.76	11.39	11.39	5.70	1.67	1.67	1.67	1.67	1.67	1.67																								
B. Crop Water Requirement																																					
1. Crop Intensity						1/3	2/3	1	1	1	1	1	1	1	2/3	1/3																					
2. Crop Coefficient						1.10	1.10	1.10	1.07	1.05	1.05	0.98	0.32	0.00																							
(HYV)							1.10	1.10	1.10	1.07	1.05	1.05	0.98	0.32	0.00																						
								1.10	1.10	1.10	1.07	1.05	1.05	0.98	0.32	0.00																					
Weighted average						1.10	1.10	1.10	1.09	1.07	1.06	1.03	0.78	0.43	0.16	0.00																					
3. Potential ET (ETo)	(mm/day/area)	5.10	5.10	5.10	4.70	4.70	4.70	4.50	4.50	4.50	4.30	4.30	4.30	4.50	4.50	4.50	4.40	4.40	4.40	4.40	4.40	4.40	3.70	3.70	3.70	3.60	3.60	3.60	3.80	3.80	3.80	4.40	4.40	4.40	4.80	4.80	4.80
4. Consumptive Use (ETc)	(mm/day/area)					5.17	5.17	4.95	4.91	4.83	4.54	4.41	3.37	1.95	0.72	0.00																					
5. Percolation	(mm/day/area)					3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00																						
6. Crop Water Requirement	(mm/day/area)					8.17	8.17	7.95	7.91	7.83	7.54	7.41	6.37	4.95	3.72																						
	(mm/day)					2.72	5.45	7.95	7.91	7.83	7.54	7.41	6.37	4.95	2.48																						
C. Effective Rainfall	(mm/day)	0.32	0.40	0.57	0.23	1.31	1.10	3.87	1.81	1.21	3.00	2.24	1.89	3.21	2.69	4.12	4.04	1.57	2.41	0.67	3.11	2.57	0.70	0.59	0.27	0.99	0.19	0.59	0.06	0.53	0.02	0.00	0.00	0.00	0.13	0.05	0.18
D. Net Field Water Requirement	(mm/day)	0.00	0.00	5.19	11.16	12.80	10.04	5.75	7.76	8.28	6.22	6.85	6.14	1.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	(l/sec/ha)	0.00	0.00	0.60	1.29	1.48	1.16	0.66	0.90	0.96	0.72	0.79	0.71	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E. Irrigation Efficiency		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
F. Unit Diversion Requirement	(l/sec/ha)	0.00	0.00	1.20	2.58	2.96	2.32	1.33	1.80	1.92	1.44	1.58	1.42	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G. Diversion Requirement	(m3/sec)	0.0	0.0	0.6	1.4	1.6	1.3	0.7	1.0	1.0	0.8	0.9	0.8	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Future Water Requirement for Dry Season Paddy 210ha (Jatikulon) Case 1



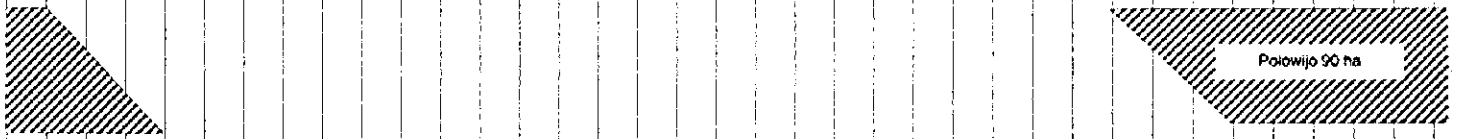
Items		October			November			December			January			February			March			April			May			June			July			August			September		
		E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L
A. Land Preparation Requirement																																					
1. Land Preparation Intensity																1/3	2/3	2/3	1/3																		
2. Land Preparation Requirement	(mm/day/area)	17.27	17.27	17.27	17.09	17.09	17.09	16.81	16.81	16.81	16.72	16.72	16.72	16.81	16.81	16.81	16.77	16.77	16.77	16.77	16.77	16.77	16.26	16.26	16.26	16.22	16.22	16.22	16.52	16.52	16.52	16.77	16.77	16.77	17.13	17.13	17.13
	(mm/day)															5.60	11.18	11.18	5.59																		
3. Water Layer Replacement Intensity																				1/3	1/3	1/3	1/3	1/3	1/3												
4. Water Layer Replacement Requirement	(mm/day/area)																			5.00	5.00	5.00	5.00	5.00	5.00												
	(mm/day)																			1.67	1.67	1.67	1.67	1.67	1.67												
5. Total Requirement for Land Preparation	(mm/day)															5.60	11.18	11.18	5.59	1.67	1.67	1.67	1.67	1.67	1.67												
B. Crop Water Requirement																																					
2. Crop Coefficient																		1.10	1.10	1.10	1.07	1.05	1.05	0.98	0.32	0.00											
(HYV)																			1.10	1.10	1.10	1.07	1.05	1.05	0.98	0.32	0.00										
																				1.10	1.10	1.10	1.07	1.05	1.05	0.98	0.32	0.00									
Weighted average																		1.10	1.10	1.10	1.09	1.07	1.06	1.03	0.78	0.43	0.16	0.00									
3. Potential ET (ETo)	(mm/day/area)	5.10	5.10	5.10	4.70	4.70	4.70	4.50	4.50	4.50	4.30	4.30	4.30	4.50	4.50	4.50	4.40	4.40	4.40	4.40	4.40	4.40	3.70	3.70	3.70	3.60	3.60	3.60	3.80	3.80	3.80	4.40	4.40	4.40	4.80	4.80	4.80
4. Consumptive Use (ETc)	(mm/day/area)																	4.84	4.84	4.84	4.80	4.72	3.91	3.80	2.90	1.56	0.58	0.00									
5. Percolation	(mm/day/area)																	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00										
6. Crop Water Requirement	(mm/day/area)																	7.84	7.84	7.84	7.80	7.72	6.91	6.80	5.90	4.56	3.58										
	(mm/day)																	2.61	5.23	7.84	7.80	7.72	6.91	6.80	5.90	4.56	2.38										
C. Effective Rainfall	(mm/day)	0.32	0.40	0.57	0.23	1.31	1.10	3.87	1.81	1.21	3.00	2.24	1.89	3.21	2.69	4.12	4.04	1.57	2.41	0.67	3.11	2.57	0.70	0.59	0.27	0.99	0.19	0.59	0.06	0.53	0.02	0.00	0.00	0.00	0.13	0.05	0.18
D. Net Field Water Requirement	(mm/day)	-0.32	-0.40	-0.57	-0.23	-1.31	-1.10	-3.87	-1.81	-1.21	-3.00	-2.24	-1.89	-3.21	-2.69	1.49	7.14	12.23	8.41	8.83	6.35	6.82	7.87	7.87	7.29	3.57	2.19	-0.59	-0.06	-0.53	-0.02	0.00	0.00	0.00	-0.13	-0.05	-0.18
D. Net Field Water Requirement	(mm/day)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.49	7.14	12.23	8.41	8.83	6.35	6.82	7.87	7.87	7.29	3.57	2.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	(l/sec/ha)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.83	1.42	0.97	1.02	0.74	0.79	0.91	0.91	0.84	0.41	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E. Irrigation Efficiency		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
F. Unit Diversion Requirement	(l/sec/ha)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.34	1.65	2.83	1.95	2.04	1.47	1.58	1.82	1.82	1.69	0.83	0.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G. Diversion Requirement	(m3/sec)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.6	0.4	0.4	0.3	0.3	0.4	0.4	0.4	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Future Water Requirement for Polowijo 340ha (Jatikulon) Case 1



Items		October			November			December			January			February			March			April			May			June			July			August			September		
		E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L
A. Crop Water Requirement																																					
1. Crop Intensity																			1/6	1/3	1/2	2/3	5/6	1	1	1	1	5/6	2/3	1/2	1/3	1/6						
2. Crop Coefficient																			0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73						
3. Potential ET (ETo)	(mm/day/area)	5.10	5.10	5.10	4.70	4.70	4.70	4.50	4.50	4.50	4.30	4.30	4.30	4.50	4.50	4.50	4.40	4.40	4.40	4.40	4.40	4.40	3.70	3.70	3.70	3.60	3.60	3.60	3.80	3.80	3.80	4.40	4.40	4.40	4.80	4.80	4.80
4. Consumptive Use (ETc)	(mm/day/area)																		3.21	3.21	3.21	3.21	2.70	2.70	2.70	2.63	2.63	2.63	2.77	2.77	2.77	3.21						
7. Crop Water Requirement	(mm/day)																		0.64	1.07	1.61	2.14	2.25	2.70	2.70	2.63	2.63	2.19	1.85	1.39	0.92	0.54						
B. Effective Rain	(mm/day)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.13	0.92	0.95	0.29	0.92	0.78	0.37	1.25	0.26	0.76	0.10	0.71	0.03	0.00	0.00	0.00	0.00	0.00	0.00
C. Net Field Requirement	(mm/day)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.00	1.33	1.92	2.33	1.38	2.36	1.43	1.75	0.68	0.89	0.54	0.00	0.00	0.00	0.00	0.00
	(l/sec/ha)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.15	0.22	0.27	0.16	0.27	0.17	0.20	0.08	0.10	0.06	0.00	0.00	0.00	0.00	0.00
E. Irrigation Efficiency		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.60	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
F. Unit Diversion Requirement	(l/sec/ha)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.31	0.44	0.54	0.32	0.55	0.33	0.41	0.16	0.21	0.12	0.00	0.00	0.00	0.00	0.00
G. Diversion Requirement	(m3/sec)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0

Future Water Requirement for Polowijo 90ha (Jatikulon) Case 1



Items		October			November			December			January			February			March			April			May			June			July			August			September		
		E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L
A. Crop Water Requirement																																					
1. Crop Intensity		1	2/3	1/3																									1/3	2/3	1	1	1	1	1	1
2. Crop Coefficient		0.73	0.73	0.73																									0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73
3. Potential ET (ETo)	(mm/day/area)	5.10	5.10	5.10	4.70	4.70	4.70	4.50	4.50	4.50	4.00	4.30	4.30	4.50	4.50	4.50	4.40	4.40	4.40	4.40	4.40	4.40	3.70	3.70	3.70	3.60	3.60	3.60	3.80	3.80	3.80	4.40	4.40	4.40	4.80	4.80	4.80
4. Consumptive Use (ETc)	(mm/day/area)	3.72	3.72	3.72																									2.77	2.77	3.21	3.21	3.21	3.50	3.50	3.50
7. Crop Water Requirement	(mm/day)	3.72	2.48	1.24																									0.92	1.85	3.21	3.21	3.21	3.50	3.50	3.50
B. Effective Rain	(mm/day)	0.47	0.60	0.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.71	0.03	0.00	0.00	0.00	0.21	0.08	0.26
C. Net Field Requirement	(mm/day)	3.25	1.89	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	1.82	3.21	3.21	3.21	3.30	3.42	3.24
	(l/sec/ha)	0.38	0.22	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.21	0.37	0.37	0.37	0.38	0.40	0.37
E. Irrigation Efficiency		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
F. Unit Diversion Requirement	(l/sec/ha)	0.75	0.44	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.42	0.74	0.74	0.74	0.76	0.79	0.75
G. Diversion Requirement	(m3/sec)	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1

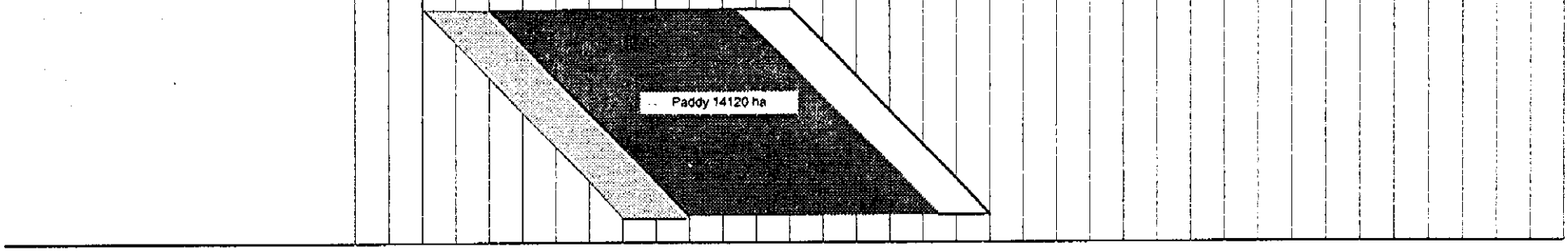
Future Water Requirement for Sugarcane 30ha (Jatikulon) Case 1

Items		October			November			December			January			February			March			April			May			June			July			August			September		
		E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L
Sugarcane 30 ha																																						
A. Crop Water Requirement																																						
1. Crop Intensity		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2. Crop Coefficient		0.99	0.99	0.98	0.94	0.89	0.85	0.84	0.82	0.80	0.79	0.77	0.76	0.75	0.74	0.73	0.73	0.73	0.73	0.73	0.73	0.74	0.78	0.83	0.87	0.88	0.90	0.92	0.93	0.95	0.96	0.97	0.98	0.99	0.99	0.99	0.99
3. Potential ET (ETo)	(mm/day/area)	5.10	5.10	5.10	4.70	4.70	4.70	4.50	4.50	4.50	4.30	4.30	4.30	4.50	4.50	4.50	4.40	4.40	4.40	4.40	4.40	4.40	3.70	3.70	3.70	3.60	3.60	3.60	3.80	3.80	3.80	4.40	4.40	4.40	4.80	4.80	4.80
4. Consumptive Use (ETc)	(mm/day/area)	5.05	5.05	5.00	4.42	4.18	4.00	3.78	3.69	3.60	3.40	3.31	3.27	3.38	3.33	3.29	3.21	3.21	3.21	3.21	3.21	3.26	2.89	3.07	3.22	3.17	3.24	3.31	3.53	3.61	3.65	4.27	4.31	4.36	4.75	4.75	4.75
7. Crop Water Requirement	(mm/day)	5.05	5.05	5.00	4.42	4.18	4.00	3.78	3.69	3.60	3.40	3.31	3.27	3.38	3.33	3.29	3.21	3.21	3.21	3.21	3.21	3.26	2.89	3.07	3.22	3.17	3.24	3.31	3.53	3.61	3.65	4.27	4.31	4.36	4.75	4.75	4.75
B. Effective Rain	(mm/day)	0.52	0.66	0.91	0.37	1.89	1.58	5.16	2.49	1.69	3.91	2.94	2.50	4.06	3.42	5.10	5.11	2.08	3.13	0.92	3.95	3.31	0.94	0.81	0.39	1.32	0.28	0.81	0.10	0.77	0.04	0.00	0.00	0.00	0.23	0.09	0.29
C. Net Field Requirement	(mm/day)	4.53	4.39	4.09	4.05	2.29	2.42	0.00	1.20	1.91	0.00	0.37	0.77	0.00	0.00	0.00	0.00	1.14	0.09	2.29	0.00	0.00	1.95	2.26	2.83	1.85	2.96	2.50	3.43	2.84	3.61	4.27	4.31	4.36	4.53	4.66	4.46
	(l/sec/ha)	0.52	0.51	0.47	0.47	0.27	0.28	0.00	0.14	0.22	0.00	0.04	0.09	0.00	0.00	0.00	0.00	0.13	0.01	0.27	0.00	0.00	0.23	0.26	0.33	0.21	0.34	0.29	0.40	0.33	0.42	0.49	0.50	0.50	0.52	0.54	0.52
E. Irrigation Efficiency		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
F. Unit Diversion Requirement	(l/sec/ha)	1.05	1.02	0.95	0.94	0.53	0.56	0.00	0.28	0.44	0.00	0.09	0.18	0.00	0.00	0.00	0.00	0.26	0.02	0.53	0.00	0.00	0.45	0.52	0.65	0.43	0.68	0.58	0.79	0.66	0.84	0.99	1.00	1.01	1.05	1.08	1.03
G. Diversion Requirement	(m3/sec)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Delta Brantas Diversion Requirements (Case 1)

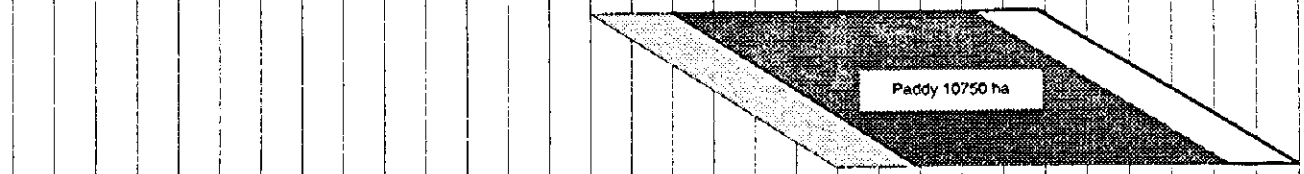
		October			November			December			January			February			March			April			May			June			July			August			September		
		E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L
Rainy Season Paddy 14120ha																																						
A. Net Field Water Requirement	(l/sec/ha)	0.00	0.00	0.29	0.62	0.70	0.66	0.69	0.99	0.74	0.41	0.39	0.51	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B. Irrigation Efficiency		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
C. Unit Diversion Requirement	(l/sec/ha)	0.00	0.00	0.59	1.24	1.40	1.31	1.37	1.97	1.47	0.82	0.77	1.02	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
D. Diversion Reruirement	(m3/sec)	0.0	0.0	8.3	17.5	19.8	18.5	19.4	27.9	20.8	11.6	10.9	14.4	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dry Season Paddy 10750ha																																						
A. Net Field Water Requirement	(l/sec/ha)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.39	0.53	0.89	0.86	0.69	0.61	0.74	0.73	0.46	0.47	0.38	0.15	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B. Irrigation Efficiency		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
C. Unit Diversion Requirement	(l/sec/ha)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.77	1.07	1.79	1.71	1.37	1.22	1.49	1.46	0.92	0.94	0.76	0.30	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00
D. Diversion Reruirement	(m3/sec)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	8.3	11.5	19.2	18.4	14.7	13.1	16.0	15.7	9.9	10.1	8.2	3.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Polowijo 840ha																																						
A. Net Field Water Requirement	(l/sec/ha)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B. Irrigation Efficiency		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
C. Unit Diversion Requirement	(l/sec/ha)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
D. Diversion Reruirement	(m3/sec)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Polowijo 2320ha																																						
A. Net Field Water Requirement	(l/sec/ha)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.17	0.08	0.23	0.26	0.20	0.17	0.16	0.08	0.07	0.00	0.00	0.00	0.00
B. Irrigation Efficiency		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
C. Unit Diversion Requirement	(l/sec/ha)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.34	0.16	0.47	0.52	0.40	0.34	0.32	0.16	0.13	0.00	0.00	0.00	0.00
D. Diversion Reruirement	(m3/sec)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.8	0.4	1.1	1.2	0.9	0.8	0.7	0.4	0.3	0.0	0.0	0.0	0.0
Polowijo 3790ha																																						
A. Net Field Water Requirement	(l/sec/ha)	0.31	0.14	0.18	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.16	0.21	0.33	0.33	0.41	0.43	0.42
B. Irrigation Efficiency		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
C. Unit Diversion Requirement	(l/sec/ha)	0.61	0.28	0.35	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.32	0.42	0.66	0.67	0.83	0.85	0.83
D. Diversion Reruirement	(m3/sec)	2.3	1.1	1.3	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.2	1.6	2.5	2.5	3.1	3.2	3.2
Sugarcane 6530ha																																						
A. Net Field Water Requirement	(l/sec/ha)	0.54	0.44	0.55	0.51	0.39	0.11	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.15	0.23	0.13	0.30	0.34	0.35	0.39	0.45	0.47	0.53	0.47	0.57	0.58	0.57
B. Irrigation Efficiency		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
C. Unit Diversion Requirement	(l/sec/ha)	1.07	0.88	1.11	1.01	0.78	0.21	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.30	0.45	0.26	0.60	0.68	0.69	0.78	0.89	0.94	1.06	0.94	1.13	1.16	1.14
D. Diversion Reruirement	(m3/sec)	7.0	5.7	7.2	6.6	5.1	1.4	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	2.0	2.9	1.7	3.9	4.4	4.5	5.1	5.8	6.1	6.9	6.1	7.4	7.6	7.4
Total Diversion Requirement	(m3/sec)	9.3	6.8	16.8	24.9	24.9	19.9	19.4	28.9	20.8	11.6	10.9	14.4	6.1	0.0	0.0	1.3	8.3	11.5	20.3	18.4	14.7	13.1	18.3	19.4	12.0	15.1	13.8	8.6	7.5	7.7	8.1	9.7	8.6	10.5	10.8	10.6

Future Water Requirement for Rainy Season Paddy 14120ha (Delta Brantas) Case 1



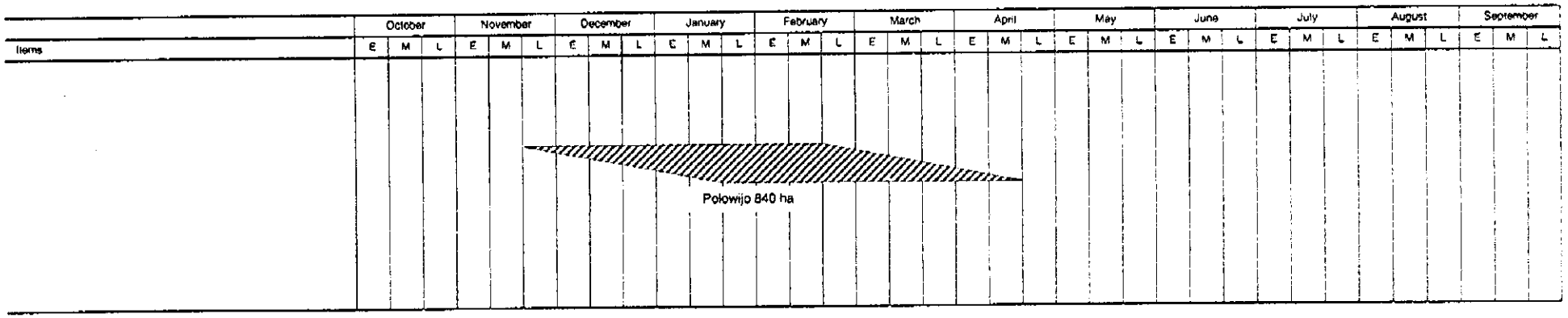
Items		October			November			December			January			February			March			April			May			June			July			August			September		
		E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L
A. Land Preperation Requirement																																						
1. Land Preparation Intensity				1/6	1/3	1/3	1/3	1/3	1/3	1/6																												
2. Land Preparation Requirement	(mm/day/area)	16.94	16.94	16.94	16.62	16.62	16.62	16.12	16.12	16.12	15.95	15.95	15.95	15.96	15.96	15.96	16.12	16.12	16.12	16.07	16.07	16.07	15.97	15.97	15.97	15.77	15.77	15.77	16.08	16.08	16.08	16.40	16.40	16.40	16.68	16.68	16.68			
	(mm/day)			2.82	5.54	5.54	5.54	5.37	5.37	2.69																												
3. Water Layer Replacement Intensity								1/6	1/6	1/6	1/3	1/3	1/3	1/6	1/6	1/6																						
4. Water Layer Replacement Requirement	(mm/day/area)							5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00																						
	(mm/day)							0.83	0.83	0.83	1.67	1.67	1.67	0.83	0.83	0.83																						
5. Total Requirement for Land Preparation	(mm/day)			2.82	5.54	5.54	5.54	6.21	6.21	3.52	1.67	1.67	1.67	0.83	0.83	0.83																						
B. Crop Water Requirement																																						
1. Crop Intensity						1/6	1/3	1/2	2/3	5/6	1	1	1	1	5/6	2/3	1/2	1/3	1/6																			
2. Crop Coefficient						1.10	1.10	1.10	1.07	1.05	1.05	0.98	0.32	0.00																								
(HYV)							1.10	1.10	1.10	1.07	1.05	1.05	0.98	0.32	0.00																							
								1.10	1.10	1.10	1.07	1.05	1.05	0.98	0.32	0.00																						
									1.10	1.10	1.10	1.07	1.05	1.05	0.98	0.32	0.00																					
										1.10	1.10	1.10	1.07	1.05	1.05	0.98	0.32	0.00																				
											1.10	1.10	1.10	1.07	1.05	1.05	0.98	0.32	0.00																			
Weighted average						1.10	1.10	1.10	1.09	1.08	1.06	1.06	0.93	0.75	0.68	0.59	0.43	0.16	0.00																			
3. Potential ET (ETo)	(mm/day/area)	5.38	5.38	5.38	5.00	5.00	5.00	4.30	4.30	4.30	4.06	4.06	4.06	3.98	3.98	3.98	4.30	4.30	4.30	4.28	4.28	4.28	4.07	4.07	4.07	3.74	3.74	3.74	4.20	4.20	4.20	4.66	4.66	4.66	5.11	5.11	5.11			
4. Consumptive Use (ETc)	(mm/day/area)					5.50	5.50	4.73	4.70	4.66	4.38	4.30	3.77	2.97	2.71	2.34	1.86	0.69	0.00																			
5. Percolation	(mm/day/area)					2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00																				
6. Crop Water Requirement	(mm/day/area)					7.50	7.50	6.73	6.70	6.66	6.38	6.30	5.77	4.97	4.71	4.34	3.86	2.69																				
	(mm/day)					1.25	2.50	3.37	4.47	5.55	6.38	6.30	5.77	4.97	3.92	2.89	1.93	0.90																				
C. Effective Rainfall	(mm/day)	0.41	0.97	0.29	0.20	0.73	2.38	3.65	2.15	2.70	4.50	4.62	3.03	3.94	4.80	5.26	4.86	3.15	3.00	1.63	3.24	3.12	2.78	1.55	1.15	1.64	0.55	0.35	0.62	0.42	0.11	0.30	0.00	0.35	0.10	0.03	0.09			
D. Net Field Water Requirement	(mm/day)	0.00	0.00	2.54	5.34	6.06	5.66	5.93	8.53	6.37	3.55	3.34	4.40	1.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
	(l/sec/ha)	0.00	0.00	0.29	0.62	0.70	0.66	0.69	0.99	0.74	0.41	0.39	0.51	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
E. Irrigation Efficiency		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50			
F. Unit Diversion Requirement	(l/sec/ha)	0.00	0.00	0.59	1.24	1.40	1.31	1.37	1.97	1.47	0.82	0.77	1.02	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
G. Diversion Requirement	(m3/sec)	0.0	0.0	8.3	17.5	19.8	18.5	19.4	27.9	20.8	11.6	10.9	14.4	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			

Future Water Requirement for Dry Season Paddy 10750ha (Delta Brantas) Case 1



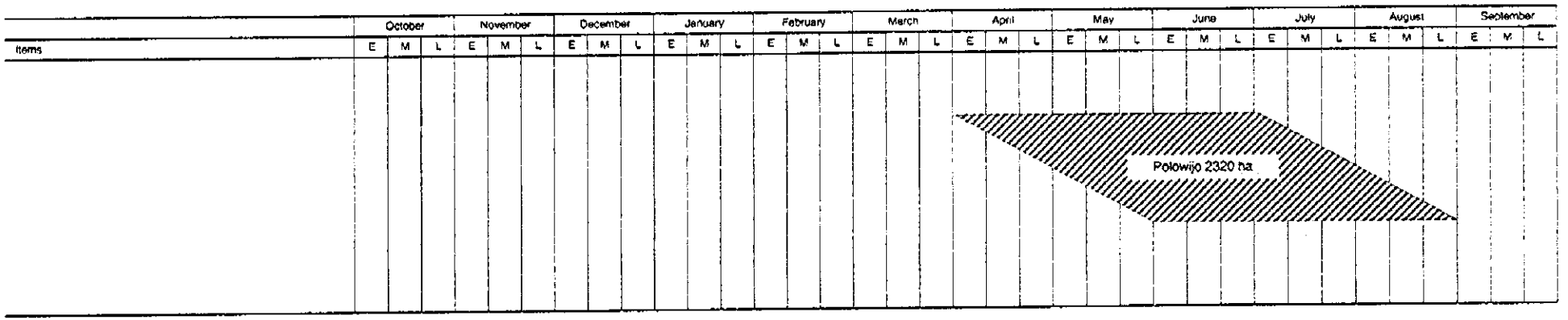
Items		October			November			December			January			February			March			April			May			June			July			August			September		
		E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L
A. Land Preparation Requirement																																					
1. Land Preparation Intensity																1/6	1/3	1/3	1/3	1/3	1/3	1/6															
2. Land Preparation Requirement	(mm/day/area)	16.94	16.94	16.94	16.62	16.62	16.62	16.12	16.12	16.12	15.95	15.95	15.95	15.96	15.96	15.96	16.12	16.12	16.12	16.07	16.07	16.07	15.97	15.97	15.97	15.77	15.77	15.77	16.08	16.08	16.08	16.40	16.40	16.40	16.68	16.68	16.68
	(mm/day)															2.66	5.37	5.37	5.37	5.36	5.36	2.68															
3. Water Layer Replacement Intensity																				1/6	1/6	1/6	1/3	1/3	1/3	1/6	1/6	1/6									
4. Water Layer Replacement Requirement	(mm/day/area)																			5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00									
	(mm/day)																			0.83	0.83	0.83	1.67	1.67	1.67	0.83	0.83	0.83									
5. Total Requirement for Land Preparation	(mm/day)															2.66	5.37	5.37	5.37	6.19	6.19	3.51	1.67	1.67	1.67	0.83	0.83	0.83									
B. Crop Water Requirement																																					
1. Crop Intensity																		1/6	1/3	1/2	2/3	5/6	1	1	1	1	5/6	2/3	1/2	1/3	1/6						
2. Crop Coefficient																		1.10	1.10	1.10	1.07	1.05	1.05	0.98	0.32	0.00											
(HYV)																			1.10	1.10	1.10	1.07	1.05	1.05	0.98	0.32	0.00										
																				1.10	1.10	1.10	1.07	1.05	1.05	0.98	0.32	0.00									
																					1.10	1.10	1.10	1.07	1.05	1.05	0.98	0.32	0.00								
																						1.10	1.10	1.10	1.07	1.05	1.05	0.98	0.32	0.00							
																							1.10	1.10	1.10	1.07	1.05	1.05	0.98	0.32	0.00						
Weighted average																		1.10	1.10	1.10	1.09	1.08	1.08	1.06	0.90	0.75	0.68	0.59	0.43	0.16	0.00						
3. Potential ET (ETo)	(mm/day/area)	5.38	5.38	5.38	5.00	5.00	5.00	4.30	4.30	4.30	4.06	4.06	4.06	3.98	3.98	3.98	4.30	4.30	4.30	4.28	4.28	4.28	4.07	4.07	4.07	3.74	3.74	3.74	4.20	4.20	4.20	4.66	4.66	4.66	5.11	5.11	5.11
4. Consumptive Use (ETc)	(mm/day/area)																	4.73	4.73	4.71	4.68	4.64	4.39	4.31	3.78	2.79	2.54	2.20	1.82	0.67	0.00						
5. Percolation	(mm/day/area)																	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00							
6. Crop Water Requirement	(mm/day/area)																	6.73	6.73	6.71	6.68	6.64	6.39	6.31	5.78	4.79	4.54	4.20	3.82	2.67							
	(mm/day)																	1.12	2.24	3.35	4.45	5.53	6.39	6.31	5.78	4.79	3.79	2.80	1.91	0.89							
C. Effective Rainfall	(mm/day)	0.41	0.97	0.29	0.20	0.73	2.36	3.65	2.15	2.70	4.50	4.62	3.00	3.94	4.60	5.26	4.88	3.15	3.00	1.63	3.24	3.12	2.78	1.55	1.15	1.64	0.55	0.35	0.62	0.42	0.11	0.30	0.00	0.35	0.10	0.03	0.09
D. Net Field Water Requirement	(mm/day)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.51	3.34	4.62	7.71	7.40	5.92	5.28	6.42	6.30	3.98	4.07	3.28	1.29	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	(l/sec/ha)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.39	0.53	0.89	0.86	0.69	0.61	0.74	0.73	0.46	0.47	0.38	0.15	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E. Irrigation Efficiency		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
F. Unit Diversion Requirement	(l/sec/ha)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.77	1.07	1.79	1.71	1.37	1.22	1.49	1.46	0.92	0.94	0.76	0.30	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G. Diversion Requirement	(m3/sec)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	8.3	11.5	19.2	18.4	14.7	13.1	16.0	15.7	9.9	10.1	8.2	3.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Future Water Requirement for Polowijo 840ha (Delta Brantas) Case 1



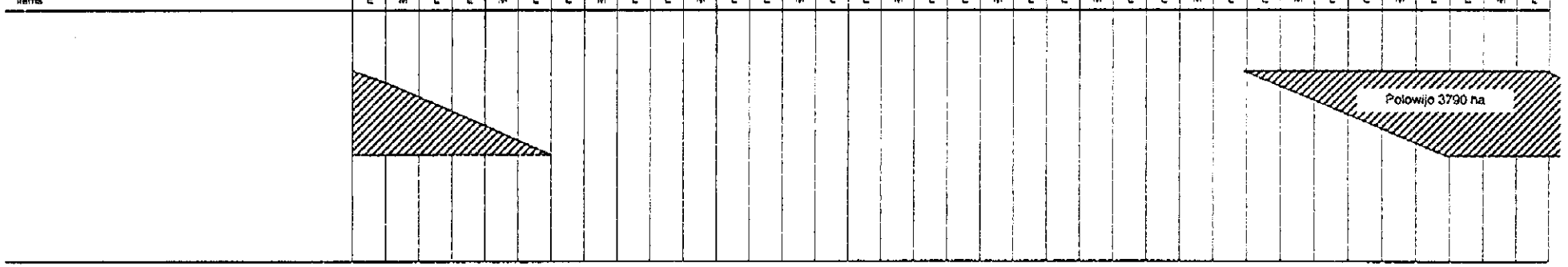
Items		October			November			December			January			February			March			April			May			June			July			August			September		
		E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L
A. Crop Water Requirement																																					
1. Crop Intensity							1/6	1/3	1/2	2/3	5/6	1	1	1	1	5/6	2/3	1/2	1/3	1/6																	
2. Crop Coefficient							0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73																	
3. Potential ET (ETo)	(mm/day/area)	5.38	5.38	5.38	5.00	5.00	5.00	4.30	4.30	4.30	4.06	4.06	4.06	3.98	3.98	3.98	4.30	4.30	4.30	4.28	4.28	4.28	4.07	4.07	4.07	3.74	3.74	3.74	4.20	4.20	4.20	4.66	4.66	4.66	5.11	5.11	5.11
4. Consumptive Use (ETc)	(mm/day/area)						3.65	3.14	3.14	3.14	2.96	2.96	2.96	2.91	2.91	2.91	3.14	3.14	3.14	3.12																	
7. Crop Water Requirement	(mm/day)						0.61	1.05	1.57	2.09	2.47	2.96	2.96	2.91	2.91	2.42	2.09	1.57	1.05	0.52																	
B. Effective Rain	(mm/day)	0.00	0.00	0.00	0.00	0.00	3.18	4.60	2.78	3.46	5.51	5.86	3.79	4.76	5.74	6.26	6.04	4.00	3.62	2.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C. Net Field Requirement	(mm/day)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	(l/sec/ha)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E. Irrigation Efficiency		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
F. Unit Diversion Requirement	(l/sec/ha)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G. Diversion Requirement	(m3/sec)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Future Water Requirement for Polowijo 6530ha (Delta Brantas) Case 1



Items		October			November			December			January			February			March			April			May			June			July			August			September		
		E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L
A. Crop Water Requirement																																					
1. Crop Intensity																				1/6	1/3	1/2	2/3	5/6	1	1	1	1	5/6	2/3	1/2	1/3	1/6				
2. Crop Coefficient																				0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73				
3. Potential ET (ETo)	(mm/day/area)	5.36	5.36	5.36	5.00	5.00	5.00	4.30	4.30	4.30	4.06	4.06	4.06	3.98	3.98	3.98	4.30	4.30	4.30	4.26	4.26	4.26	4.07	4.07	4.07	3.74	3.74	3.74	4.20	4.20	4.20	4.66	4.66	4.66	5.11	5.11	5.11
4. Consumptive Use (ETc)	(mm/day/area)																			3.12	3.12	3.12	2.97	2.97	2.97	2.73	2.73	2.73	3.07	3.07	3.07	3.40	3.40				
7. Crop Water Requirement	(mm/day)																			0.52	1.04	1.56	1.98	2.48	2.97	2.73	2.73	2.73	2.56	2.04	1.53	1.13	0.57				
B. Effective Rain	(mm/day)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.37	4.07	3.93	3.49	2.00	1.51	2.04	0.72	0.47	0.84	0.59	0.17	0.43	0.00	0.00	0.00	0.00	0.00
C. Net Field Requirement	(mm/day)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.47	1.47	0.69	2.01	2.26	1.71	1.46	1.37	0.70	0.57	0.00	0.00	0.00	0.00
	(l/sec/ha)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.17	0.08	0.23	0.26	0.20	0.17	0.16	0.08	0.07	0.00	0.00	0.00	0.00
E. Irrigation Efficiency		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
F. Unit Diversion Requirement	(l/sec/ha)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.34	0.16	0.47	0.52	0.40	0.34	0.32	0.16	0.13	0.00	0.00	0.00	0.00
G. Diversion Requirement	(m3/sec)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.8	0.4	1.1	1.2	0.9	0.8	0.7	0.4	0.3	0.0	0.0	0.0	0.0

Future Water Requirement for Polowijo 3790ha (Delta Brantas) Case 1



Items		October			November			December			January			February			March			April			May			June			July			August			September		
		E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L
A. Crop Water Requirement																																					
1. Crop Intensity		5/6	2/3	1/2	1/3	1/6																							1/6	1/3	1/2	2/3	5/6	1	1	1	1
2. Crop Coefficient		0.73	0.73	0.73	0.73	0.73																							0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73
3. Potential ET (ETo)	(mm/day/area)	5.38	5.38	5.38	5.00	5.00	5.00	4.30	4.30	4.30	4.06	4.06	4.06	3.98	3.98	3.98	4.30	4.30	4.30	4.28	4.28	4.28	4.07	4.07	4.07	3.74	3.74	3.74	4.20	4.20	4.20	4.66	4.66	4.66	5.11	5.11	5.11
4. Consumptive Use (ETc)	(mm/day/area)	3.93	3.93	3.93	3.65	3.65																							3.07	3.07	3.07	3.40	3.40	3.40	3.73	3.73	3.73
7. Crop Water Requirement	(mm/day)	3.27	2.62	1.96	1.22	0.61																							0.51	1.02	1.53	2.27	2.83	3.40	3.73	3.73	3.73
B. Effective Rain	(mm/day)	0.62	1.39	0.44	0.30	1.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.84	0.59	0.17	0.40	0.00	0.51	0.15	0.04	0.14
C. Net Field Requirement	(mm/day)	2.65	1.22	1.53	0.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.44	1.37	1.83	2.83	2.89	3.58	3.69	3.59
	(l/sec/ha)	0.31	0.14	0.18	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.16	0.21	0.33	0.33	0.41	0.43	0.42
E. Irrigation Efficiency		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
F. Unit Diversion Requirement	(l/sec/ha)	0.61	0.28	0.35	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.32	0.42	0.66	0.67	0.83	0.85	0.83
G. Diversion Requirement	(m3/sec)	2.3	1.1	1.3	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.2	1.6	2.5	2.5	3.1	3.2	3.2

Future Water Requirement for Sugarcane 6530ha (Delta Brantas) Case 1

Items		October			November			December			January			February			March			April			May			June			July			August			September		
		E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L
Sugarcane 6530 ha																																					
A. Crop Water Requirement																																					
1. Crop Intensity		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2. Crop Coefficient		0.99	0.99	0.98	0.94	0.89	0.85	0.84	0.82	0.80	0.79	0.77	0.76	0.75	0.74	0.73	0.73	0.73	0.73	0.73	0.73	0.74	0.78	0.83	0.87	0.88	0.90	0.92	0.93	0.95	0.96	0.97	0.98	0.99	0.99	0.99	0.99
3. Potential ET (ETo)	(mm/day/area)	5.38	5.38	5.38	5.00	5.00	5.00	4.30	4.30	4.30	4.06	4.06	4.06	3.98	3.98	3.98	4.30	4.30	4.30	4.28	4.28	4.28	4.07	4.07	4.07	3.74	3.74	3.74	4.20	4.20	4.20	4.66	4.66	4.66	5.11	5.11	5.11
4. Consumptive Use (ETc)	(mm/day/area)	5.33	5.33	5.27	4.70	4.45	4.25	3.61	3.53	3.44	3.21	3.13	3.09	2.99	2.95	2.91	3.14	3.14	3.14	3.12	3.12	3.17	3.17	3.38	3.54	3.29	3.37	3.44	3.91	3.99	4.03	4.52	4.57	4.61	5.06	5.06	5.06
7. Crop Water Requirement	(mm/day)	5.33	5.33	5.27	4.70	4.45	4.25	3.61	3.53	3.44	3.21	3.13	3.09	2.99	2.95	2.91	3.14	3.14	3.14	3.12	3.12	3.17	3.17	3.38	3.54	3.29	3.37	3.44	3.91	3.99	4.03	4.52	4.57	4.61	5.06	5.06	5.06
B. Effective Rain	(mm/day)	0.68	1.53	0.48	0.33	1.10	3.33	4.80	2.88	3.55	5.65	5.75	3.84	4.80	5.76	6.26	6.04	4.09	3.82	2.37	4.07	3.94	3.56	2.09	1.59	2.16	0.77	0.50	0.91	0.64	0.18	0.47	0.00	0.56	0.17	0.05	0.15
C. Net Field Requirement	(mm/day)	4.64	3.79	4.79	4.37	3.35	0.92	0.00	0.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	0.00	0.00	1.29	1.95	1.13	2.60	2.94	3.00	3.35	3.85	4.05	4.57	4.05	4.89	5.01	4.91
	(l/sec/ha)	0.54	0.44	0.55	0.51	0.39	0.11	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.15	0.23	0.13	0.30	0.34	0.35	0.39	0.45	0.47	0.53	0.47	0.57	0.58	0.57
E. Irrigation Efficiency		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
F. Unit Diversion Requirement	(l/sec/ha)	1.07	0.88	1.11	1.01	0.78	0.21	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.30	0.45	0.26	0.60	0.68	0.69	0.78	0.89	0.94	1.05	0.94	1.13	1.16	1.14
G. Diversion Requirement	(m3/sec)	7.0	5.7	7.2	6.6	5.1	1.4	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	2.0	2.9	1.7	3.9	4.4	4.5	5.1	5.8	6.1	6.9	6.1	7.4	7.6	7.4

Future Water Demand by Areas (Case 2)

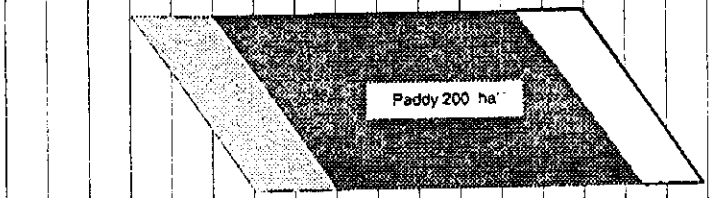
Irrigation efficiency = 50%

Year		Intake Name (m3/sec)											
Month		Brantas Atas	Brantas Bawah	Molek	Lodoagung	Mrican Kanan	Warujayeng -Kertosono	Brantas Kediri Kiri	Jatimlerek-Bunder	Menturus Rubber	Jatikulon	Delta Brantas	TOTAL
Oct.	E	0.7	0.4	0.0	6.3	11.6	9.9	0.1	0.8	2.9	0.1	9.9	42.7
	M	0.6	0.4	0.4	5.4	7.4	1.9	0.0	0.4	2.1	0.1	7.9	26.6
	L	0.3	0.3	0.1	3.6	4.9	3.1	0.1	0.8	2.8	0.1	10.4	26.5
Nov	E	0.1	0.0	0.9	7.4	5.0	4.1	0.1	0.1	1.8	0.1	9.4	29.0
	M	0.3	0.6	0.7	7.3	6.5	4.5	0.5	0.1	0.9	0.0	7.0	28.4
	L	0.5	1.0	1.6	8.3	10.8	8.2	0.8	1.0	1.8	0.6	3.4	38.0
Dec	E	0.3	1.2	2.6	4.7	12.7	12.6	1.1	1.6	1.2	0.9	5.6	44.5
	M	0.3	1.9	4.1	12.3	11.4	11.3	0.7	2.1	1.8	1.5	15.5	62.9
	L	0.2	1.3	2.4	11.7	14.6	14.5	0.5	2.4	2.3	1.2	16.1	67.2
Jan	E	0.2	0.7	2.3	9.9	10.9	13.9	0.3	1.3	1.0	0.8	16.0	57.3
	M	0.3	1.5	3.4	8.9	14.4	14.2	0.5	0.7	0.9	0.9	19.0	64.7
	L	0.2	0.9	1.1	8.8	10.9	12.3	0.5	1.2	1.1	0.9	18.9	56.8
Feb	E	0.2	1.0	2.3	8.5	10.3	6.7	0.2	1.2	1.0	0.8	13.1	45.3
	M	0.0	0.3	2.7	6.9	11.2	7.9	0.2	1.1	1.0	0.8	10.1	42.2
	L	0.0	0.0	1.3	5.6	6.7	3.6	0.0	1.1	0.0	0.5	6.9	25.7
Mar	E	0.0	0.0	0.0	2.4	5.8	5.6	0.0	0.0	0.0	0.1	3.9	17.8
	M	0.2	0.3	0.1	4.0	1.5	4.0	0.1	0.0	0.2	0.1	5.8	16.3
	L	0.4	0.5	1.4	5.1	3.3	3.2	0.3	0.2	0.1	0.2	2.8	17.5
Apr	E	0.2	0.3	1.8	5.0	5.2	11.9	0.6	0.5	0.9	0.5	10.2	37.1
	M	0.2	0.2	2.8	7.0	7.0	4.3	0.3	0.7	0.3	0.5	8.1	31.4
	L	0.4	0.4	3.4	7.4	11.8	12.0	0.3	0.7	0.8	0.4	11.1	48.7
May	E	0.2	0.2	3.1	9.6	13.5	13.5	0.4	0.3	0.7	0.4	16.5	58.4
	M	0.7	0.7	3.6	7.6	13.3	13.1	0.5	0.9	1.5	0.4	23.7	66.0
	L	0.6	0.5	4.0	8.2	12.8	11.0	0.4	1.0	1.8	0.5	21.4	62.2
Jun	E	0.8	0.8	2.1	6.3	13.9	13.2	0.4	0.8	1.2	0.5	16.4	56.4
	M	0.8	0.9	3.0	4.1	12.7	12.1	0.4	1.1	2.1	0.6	22.0	59.8
	L	0.7	0.6	3.2	7.6	14.4	10.7	0.3	1.3	2.1	0.4	22.3	63.6
Jul	E	0.7	0.7	2.9	6.4	14.2	11.3	0.3	1.1	2.4	0.4	18.7	59.1
	M	0.5	0.6	2.2	5.5	13.5	10.2	0.2	1.0	2.1	0.3	17.2	53.3
	L	0.7	0.5	1.7	4.3	11.7	8.5	0.2	0.7	2.2	0.2	16.4	47.1
Aug	E	0.7	0.6	0.9	4.8	11.6	8.1	0.1	0.7	2.5	0.2	11.5	41.7
	M	0.8	0.6	1.5	4.5	8.3	6.8	0.1	0.6	2.5	0.1	11.2	37.0
	L	0.7	0.6	1.6	5.8	10.6	7.4	0.1	0.7	2.7	0.1	7.5	37.8
Sep	E	0.9	0.6	1.9	7.4	10.4	7.5	0.1	0.9	3.1	0.1	9.8	42.7
	M	0.9	0.6	1.9	7.3	11.1	10.2	0.1	0.9	3.2	0.1	10.5	46.8
	L	0.8	0.6	1.9	7.4	10.3	8.0	0.1	1.0	3.1	0.1	10.6	43.9
AVERAGE		0.4	0.6	2.0	6.8	10.2	8.9	0.3	0.9	1.6	0.4	12.4	44.5
MAX.		0.9	1.9	4.1	12.3	14.6	14.5	1.1	2.4	3.2	1.5	23.7	67.2

Brantas Atas Diversion Requirements (Case 2)

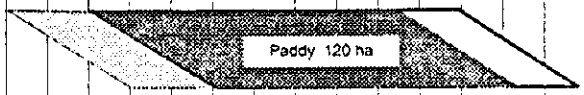
		October			November			December			January			February			March			April			May			June			July			August			September		
		E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L
Rainy Season Paddy 200ha																																					
A. Net Field Water Requirement	(l/sec/ha)	0.00	0.00	0.00	0.25	0.84	1.18	0.71	0.66	0.55	0.42	0.75	0.43	0.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B. Irrigation Efficiency		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
C. Unit Diversion Requirement	(l/sec/ha)	0.00	0.00	0.00	0.50	1.68	2.37	1.42	1.32	1.09	0.83	1.50	0.86	1.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
D. Diversion Reruirement	(m3/sec)	0.0	0.0	0.0	0.1	0.3	0.5	0.3	0.3	0.2	0.2	0.3	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dry Season Paddy 120ha																																					
A. Net Field Water Requirement	(l/sec/ha)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.85	1.40	0.82	0.72	0.93	0.72	0.95	0.88	0.84	0.53	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B. Irrigation Efficiency		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
C. Unit Diversion Requirement	(l/sec/ha)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23	1.70	2.79	1.64	1.45	1.87	1.44	1.91	1.77	1.68	1.07	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
D. Diversion Reruirement	(m3/sec)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Polowijo 580ha																																					
A. Net Field Water Requirement	(l/sec/ha)	0.33	0.26	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.11	0.16	0.25	0.30	0.40	0.40	0.39
B. Irrigation Efficiency		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
C. Unit Diversion Requirement	(l/sec/ha)	0.66	0.51	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.21	0.33	0.49	0.59	0.81	0.81	0.78
D. Diversion Reruirement	(m3/sec)	0.4	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.3	0.3	0.5	0.5	0.5
Polowijo 510ha																																					
A. Net Field Water Requirement	(l/sec/ha)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B. Irrigation Efficiency		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
C. Unit Diversion Requirement	(l/sec/ha)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
D. Diversion Reruirement	(m3/sec)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Polowijo 590ha																																					
A. Net Field Water Requirement	(l/sec/ha)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.19	0.18	0.26	0.31	0.23	0.27	0.17	0.16	0.10	0.06	0.00	0.00	0.00	0.00
B. Irrigation Efficiency		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
C. Unit Diversion Requirement	(l/sec/ha)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.39	0.35	0.52	0.63	0.45	0.53	0.35	0.32	0.20	0.12	0.00	0.00	0.00	0.00
D. Diversion Reruirement	(m3/sec)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.3	0.4	0.3	0.3	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.0
Apple 370ha																																					
A. Net Field Water Requirement	(l/sec/ha)	0.38	0.37	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.30	0.05	0.39	0.32	0.41	0.47	0.37	0.48	0.44	0.48	0.52	0.54	0.52	0.54	0.51	0.46
B. Irrigation Efficiency		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
C. Unit Diversion Requirement	(l/sec/ha)	0.76	0.75	0.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00	0.01	0.60	0.10	0.78	0.64	0.83	0.94	0.75	0.97	0.87	0.97	1.04	1.08	1.04	1.09	1.02	0.91
D. Diversion Reruirement	(m3/sec)	0.3	0.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.2	0.0	0.3	0.2	0.3	0.3	0.3	0.4	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.3
Citrus 10ha																																					
A. Net Field Water Requirement	(l/sec/ha)	0.25	0.25	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.14	0.00	0.18	0.11	0.19	0.24	0.16	0.24	0.20	0.24	0.26	0.28	0.27	0.30	0.30	0.29
B. Irrigation Efficiency		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
C. Unit Diversion Requirement	(l/sec/ha)	0.49	0.49	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.27	0.00	0.36	0.22	0.38	0.47	0.31	0.48	0.41	0.48	0.52	0.56	0.54	0.61	0.61	0.58
D. Diversion Reruirement	(m3/sec)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Diversion Requirement	(m3/sec)	0.7	0.6	0.3	0.1	0.3	0.5	0.3	0.3	0.2	0.2	0.3	0.2	0.2	0.0	0.0	0.0	0.2	0.4	0.2	0.2	0.4	0.2	0.7	0.6	0.8	0.8	0.7	0.7	0.5	0.7	0.7	0.8	0.7	0.9	0.9	0.8

Future Water Requirement for Rainy Season Paddy 200ha (Brantas Atas) Case 2



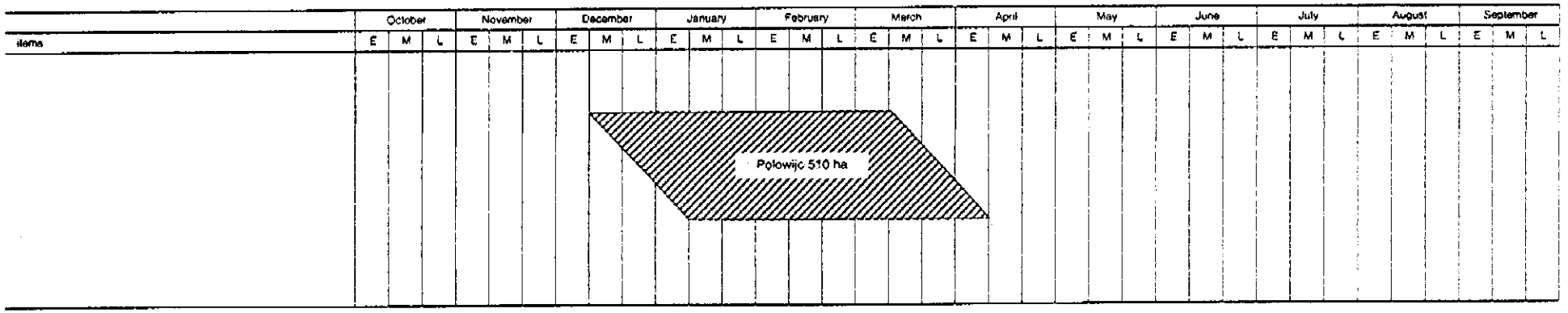
Items		October			November			December			January			February			March			April			May			June			July			August			September		
		E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L
A. Land Preparation Requirement																																						
1. Land Preparation Intensity					1/3	2/3	2/3	1/3																														
2. Land Preparation Requirement	(mm/day/area)	17.09	17.09	17.09	16.96	16.96	16.96	16.64	16.64	16.64	16.62	16.62	16.62	16.62	16.62	16.62	16.66	16.66	16.66	16.55	16.55	16.55	16.49	16.49	16.49	16.29	16.29	16.29	16.49	16.49	16.49	16.90	16.90	16.90	17.11	17.11	17.11	
	(mm/day)				5.65	11.31	11.31	5.55																														
3. Water Layer Replacement Intensity									1/3	1/3	1/3	1/3	1/3	1/3																								
4. Water Layer Replacement Requirement	(mm/day/area)								5.00	5.00	5.00	5.00	5.00	5.00																								
	(mm/day)								1.67	1.67	1.67	1.67	1.67	1.67																								
5. Total Requirement for Land Preparation	(mm/day)				5.65	11.31	11.31	5.55	1.67	1.67	1.67	1.67	1.67	1.67																								
B. Crop Water Requirement																																						
1. Crop Intensity							1/3	2/3	1	1	1	1	1	1	1	2/3	1/3																					
2. Crop Coefficient							1.10	1.10	1.10	1.07	1.05	1.05	0.98	0.32	0.00																							
(HYV)								1.10	1.10	1.07	1.05	1.05	0.98	0.32	0.00																							
								1.10	1.10	1.10	1.07	1.05	1.05	0.98	0.32	0.00																						
Weighted average							1.10	1.10	1.10	1.09	1.07	1.06	1.03	0.78	0.43	0.16	0.00																					
3. Potential ET (ETo)	(mm/day/area)	4.86	4.86	4.86	4.73	4.73	4.73	4.26	4.26	4.26	4.01	4.01	4.01	4.09	4.09	4.09	4.19	4.19	4.19	4.06	4.06	4.06	3.87	3.87	3.87	3.71	3.71	3.71	3.79	3.79	3.79	4.37	4.37	4.37	4.79	4.79	4.79	
4. Consumptive Use (ETc)	(mm/day/area)						5.20	4.69	4.69	4.64	4.30	4.24	4.12	3.20	1.77	0.65	0.00																					
5. Percolation	(mm/day/area)						3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00																						
6. Crop Water Requirement	(mm/day/area)						8.20	7.69	7.69	7.64	7.30	7.24	7.12	6.20	4.77	3.65																						
	(mm/day)						2.73	5.12	7.69	7.64	7.30	7.24	7.12	6.20	4.77	2.44																						
C. Effective Rainfall	(mm/day)	0.49	0.51	1.00	3.50	4.05	3.82	4.55	3.60	4.00	5.38	2.41	5.07	3.31	5.37	9.21	4.56	3.78	1.59	3.42	2.68	1.01	2.98	0.51	1.00	0.33	0.00	0.57	0.00	0.25	0.00	0.12	0.00	0.06	0.00	0.00	0.07	
D. Net Field Water Requirement	(mm/day)	0.00	0.00	0.00	2.16	7.26	10.22	6.12	5.69	4.71	3.59	6.49	3.71	4.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	(l/sec/ha)	0.00	0.00	0.00	0.25	0.84	1.18	0.71	0.66	0.55	0.42	0.75	0.43	0.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
E. Irrigation Efficiency		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	
F. Unit Diversion Requirement	(l/sec/ha)	0.00	0.00	0.00	0.50	1.68	2.37	1.42	1.32	1.09	0.83	1.50	0.86	1.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
G. Diversion Requirement	(m3/sec)	0.0	0.0	0.0	0.1	0.3	0.5	0.3	0.3	0.2	0.2	0.3	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

Future Water Requirement for Dry Season Paddy 120ha (Brantas Atas) Case 2



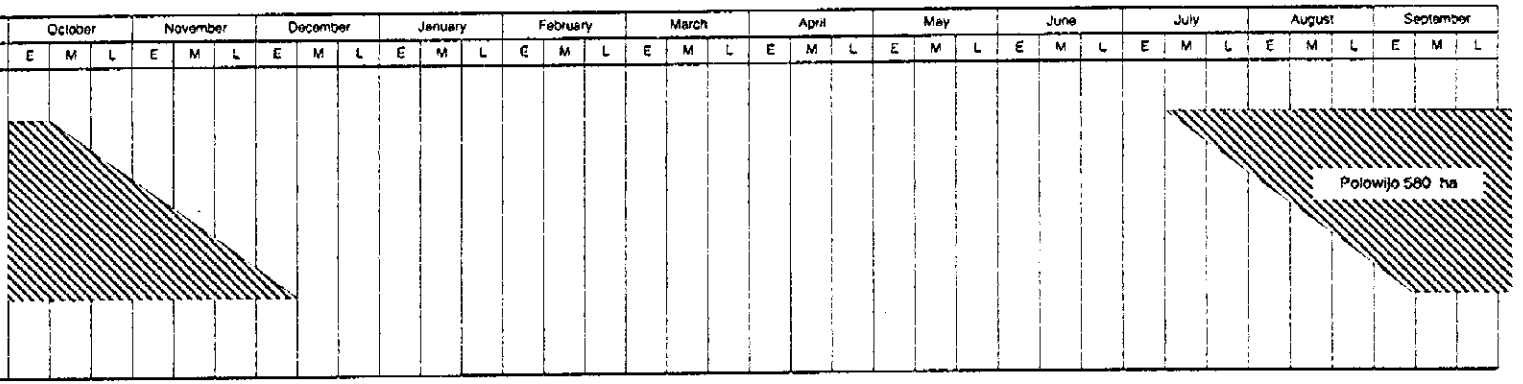
Items		October			November			December			January			February			March			April			May			June			July			August			September		
		E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L
A. Land Preparation Requirement																																					
1. Land Preparation Intensity																	1/3	2/3	2/3	1/3																	
2. Land Preparation Requirement	(mm/day/area)	17.09	17.09	17.09	16.96	16.96	16.96	16.64	16.64	16.64	16.62	16.62	16.62	16.62	16.62	16.62	16.66	16.66	16.66	16.55	16.55	16.55	16.49	16.49	16.49	16.29	16.29	16.29	16.49	16.49	16.49	16.90	16.90	16.90	17.11	17.11	17.11
	(mm/day)																5.55	11.11	11.11	5.52																	
3. Water Layer Replacement Intensity																					1/3	1/3	1/3	1/3	1/3	1/3											
4. Water Layer Replacement Requirement	(mm/day/area)																				5.00	5.00	5.00	5.00	5.00	5.00											
	(mm/day)																				1.67	1.67	1.67	1.67	1.67	1.67											
5. Total Requirement for Land Preparation	(mm/day)																5.55	11.11	11.11	5.52	1.67	1.67	1.67	1.67	1.67	1.67											
B. Crop Water Requirement																																					
1. Crop Intensity																			1/3	2/3	1	1	1	1	1	1	1	2/3	1/3								
2. Crop Coefficient																			1.10	1.10	1.10	1.07	1.05	1.05	0.98	0.32	0.00										
(HYV)																				1.10	1.10	1.10	1.07	1.05	1.05	0.98	0.32	0.00									
																					1.10	1.10	1.10	1.07	1.05	1.05	0.98	0.32	0.00								
Weighted average																			1.10	1.10	1.10	1.09	1.07	1.06	1.03	0.78	0.43	0.16	0.00								
3. Potential ET (ETo)	(mm/day/area)	4.86	4.86	4.86	4.73	4.73	4.73	4.26	4.26	4.26	4.01	4.01	4.01	4.09	4.09	4.09	4.19	4.19	4.19	4.06	4.06	4.06	3.87	3.87	3.87	3.71	3.71	3.71	3.79	3.79	3.79	4.37	4.37	4.37	4.79	4.79	4.79
4. Consumptive Use (ETc)	(mm/day/area)																		4.61	4.47	4.47	4.43	4.15	4.09	3.97	2.91	1.61	0.59	0.00								
5. Percolation	(mm/day/area)																		3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00									
6. Crop Water Requirement	(mm/day/area)																		7.61	7.47	7.47	7.43	7.15	7.09	6.97	5.91	4.61	3.59									
	(mm/day)																		2.54	4.98	7.47	7.43	7.15	7.09	6.97	5.91	4.61	2.40									
C. Effective Rainfall	(mm/day)	0.49	0.51	1.06	3.50	4.05	3.82	4.55	3.66	4.60	5.38	2.41	5.07	3.31	5.37	9.21	4.55	3.78	1.59	3.42	2.68	1.01	2.58	0.51	1.00	0.33	0.00	0.57	0.00	0.25	0.00	0.12	0.00	0.06	0.00	0.00	0.07
D. Net Field Water Requirement	(mm/day)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	7.32	12.06	7.08	6.26	8.08	6.24	8.24	7.64	7.24	4.61	1.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	(l/sec/ha)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.85	1.40	0.82	0.72	0.93	0.72	0.95	0.88	0.84	0.53	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E. Irrigation Efficiency		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
F. Unit Diversion Requirement	(l/sec/ha)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23	1.70	2.79	1.64	1.45	1.87	1.44	1.91	1.77	1.68	1.07	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G. Diversion Requirement	(m3/sec)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Future Water Requirement for Polowijo 510ha (Brantas Atas) Case 2



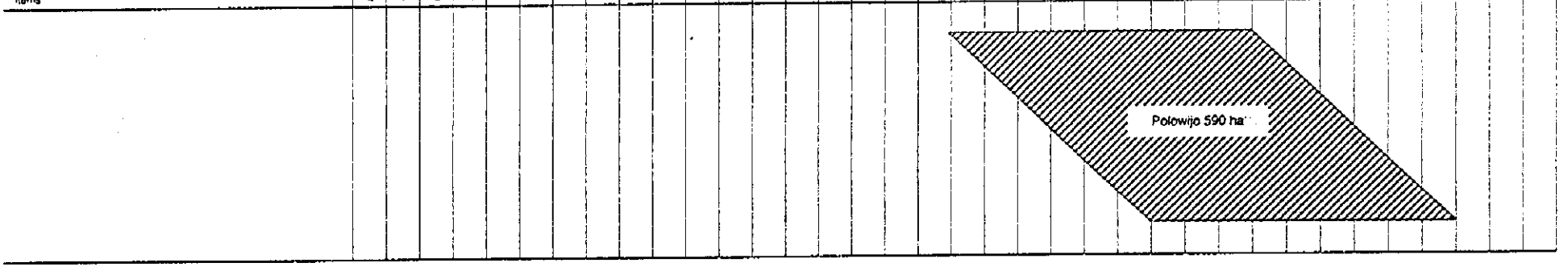
Items		October			November			December			January			February			March			April			May			June			July			August			September		
		E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L
A. Crop Water Requirement																																					
1. Crop Intensity									1/3	2/3	1	1	1	1	1	1	1	2/3	1/3																		
2. Crop Coefficient									0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73																		
3. Potential ET (ETo)	(mm/day/area)	4.86	4.86	4.86	4.73	4.73	4.73	4.26	4.26	4.26	4.01	4.01	4.01	4.09	4.09	4.09	4.19	4.19	4.19	4.06	4.06	4.06	3.87	3.87	3.87	3.71	3.71	3.71	3.79	3.79	3.79	4.37	4.37	4.37	4.79	4.79	4.79
4. Consumptive Use (ETc)	(mm/day/area)								3.11	3.11	2.93	2.93	2.93	2.99	2.99	2.99	3.06	3.06	3.06																		
7. Crop Water Requirement	(mm/day)								1.04	2.07	2.93	2.93	2.93	2.99	2.99	2.99	3.06	2.04	1.02																		
B. Effective Rain	(mm/day)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.60	5.71	6.51	3.04	6.16	4.06	6.44	10.75	5.60	4.72	2.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C. Net Field Requirement	(mm/day)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	(l/sec/ha)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E. Irrigation Efficiency		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
F. Unit Diversion Requirement	(l/sec/ha)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G. Diversion Requirement	(m3/sec)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Future Water Requirement for Polowijo 580ha (Brantas Atas) Case 2



Items		October			November			December			January			February			March			April			May			June			July			August			September		
		E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L
A. Crop Water Requirement																																					
1. Crop Intensity		1	5/6	2/3	1/2	1/3	1/6																							1/6	1/3	1/2	2/3	5/6	1	1	1
2. Crop Coefficient		0.73	0.73	0.73	0.73	0.73	0.73																							0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73
3. Potential ET (ETo)	(mm/day/area)	4.86	4.86	4.86	4.73	4.73	4.73	4.26	4.26	4.26	4.01	4.01	4.01	4.09	4.09	4.09	4.19	4.19	4.19	4.06	4.06	4.06	3.87	3.87	3.87	3.71	3.71	3.71	3.79	3.79	3.79	4.37	4.37	4.37	4.79	4.79	4.79
4. Consumptive Use (ETc)	(mm/day/area)	3.55	3.55	3.55	3.45	3.45	3.45																							2.77	2.77	3.19	3.19	3.19	3.50	3.50	3.50
7. Crop Water Requirement	(mm/day)	3.55	2.95	2.37	1.73	1.15	0.58																							0.46	0.92	1.60	2.13	2.66	3.50	3.50	3.50
B. Effective Rain	(mm/day)	0.71	0.74	1.47	4.51	5.18	4.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.19	0.00	0.09	0.00	0.00	0.12
C. Net Field Requirement	(mm/day)	2.84	2.22	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.92	1.41	2.13	2.57	3.50	3.50	3.38
	(l/sec/ha)	0.33	0.26	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.11	0.16	0.25	0.30	0.40	0.40	0.39
E. Irrigation Efficiency		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
F. Unit Diversion Requirement	(l/sec/ha)	0.66	0.51	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.21	0.33	0.49	0.59	0.81	0.01	0.78
G. Diversion Requirement	(m3/sec)	0.4	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.3	0.3	0.5	0.5	0.5

Future Water Requirement for Polowijo 610ha (Brantas Atas) Case 2



Items		October			November			December			January			February			March			April			May			June			July			August			September		
		E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L
A. Crop Water Requirement																																						
1. Crop Intensity																				1/6	1/3	1/2	2/3	5/6	1	1	1	1	5/6	2/3	1/2	1/3	1/6					
2. Crop Coefficient																				0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73					
3. Potential ET (ETo)	(mm/day/area)	4.86	4.86	4.86	4.73	4.73	4.73	4.26	4.26	4.26	4.01	4.01	4.01	4.09	4.09	4.09	4.19	4.19	4.19	4.06	4.06	4.06	3.87	3.87	3.87	3.71	3.71	3.71	3.79	3.79	3.79	4.37	4.37	4.37	4.79	4.79	4.79
4. Consumptive Use (ETc)	(mm/day/area)																			2.96	2.96	2.96	2.83	2.83	2.83	2.71	2.71	2.71	2.77	2.77	2.77	3.19	3.19					
7. Crop Water Requirement	(mm/day)																			0.49	0.99	1.48	1.88	2.35	2.83	2.71	2.71	2.71	2.31	1.84	1.38	1.06	0.53					
B. Effective Rain	(mm/day)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.21	3.58	1.33	3.20	0.69	1.30	0.45	0.00	0.75	0.00	0.35	0.00	0.19	0.00	0.00	0.00	0.00	0.00
C. Net Field Requirement	(mm/day)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.00	1.66	1.52	2.26	2.71	1.96	2.31	1.50	1.38	0.88	0.53	0.00	0.00	0.00	0.00
	(l/sec/ha)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.19	0.18	0.26	0.31	0.23	0.27	0.17	0.16	0.10	0.06	0.00	0.00	0.00	0.00
E. Irrigation Efficiency		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
F. Unit Diversion Requirement	(l/sec/ha)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.39	0.35	0.52	0.63	0.45	0.53	0.35	0.32	0.20	0.12	0.00	0.00	0.00	0.00
G. Diversion Requirement	(m3/sec)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.3	0.4	0.3	0.3	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.0

Future Water Requirement for Apple 370ha (Brantas Atas) Case 2

Items		October			November			December			January			February			March			April			May			June			July			August			September		
		E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L
A. Crop Water Requirement																																						
1. Crop Intensity		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2. Crop Coefficient		0.63	0.82	0.8	0.53	0.27	0	0	0	0	0	0	0	0.27	0.53	0.8	0.83	0.87	0.9	0.93	0.97	1	1.03	1.07	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.08	1.07	1.05	0.98	0.92	0.85
3. Potential ET (ETo)	(mm/day/area)	4.86	4.86	4.86	4.73	4.73	4.73	4.26	4.26	4.26	4.01	4.01	4.01	4.09	4.09	4.09	4.19	4.19	4.19	4.06	4.06	4.06	3.87	3.87	3.87	3.71	3.71	3.71	3.79	3.79	3.79	4.07	4.37	4.37	4.79	4.79	4.79
4. Consumptive Use (ETc)	(mm/day/area)	4.03	3.99	3.89	2.51	1.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.10	2.17	3.27	3.48	3.65	3.77	3.78	3.94	4.06	3.99	4.14	4.26	4.08	4.08	4.08	4.17	4.17	4.17	4.72	4.68	4.59	4.69	4.41	4.07
7. Crop Water Requirement	(mm/day)	4.03	3.99	3.89	2.51	1.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.10	2.17	3.27	3.48	3.65	3.77	3.78	3.94	4.06	3.99	4.14	4.26	4.08	4.08	4.08	4.17	4.17	4.17	4.72	4.68	4.59	4.69	4.41	4.07
B. Effective Rain	(mm/day)	0.73	0.77	1.51	4.09	3.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.98	5.83	11.06	5.86	4.99	2.21	4.54	3.90	1.46	3.56	0.78	1.48	0.51	0.00	0.85	0.00	0.39	0.00	0.21	0.00	0.10	0.00	0.00	0.12
C. Net Field Requirement	(mm/day)	3.30	3.22	2.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.56	0.00	0.03	2.60	0.43	3.36	2.78	3.57	4.08	3.23	4.17	3.78	4.17	4.51	4.68	4.49	4.69	4.41	3.95
	(l/sec/ha)	0.38	0.37	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.30	0.05	0.39	0.32	0.41	0.47	0.37	0.48	0.44	0.48	0.52	0.54	0.52	0.54	0.51	0.46
E. Irrigation Efficiency		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
F. Unit Diversion Requirement	(l/sec/ha)	0.76	0.75	0.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00	0.01	0.60	0.10	0.78	0.64	0.83	0.94	0.75	0.97	0.87	0.97	1.04	1.08	1.04	1.09	1.02	0.91
G. Diversion Requirement	(m3/sec)	0.3	0.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.2	0.0	0.3	0.2	0.3	0.3	0.3	0.4	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.3

Apple 370 ha

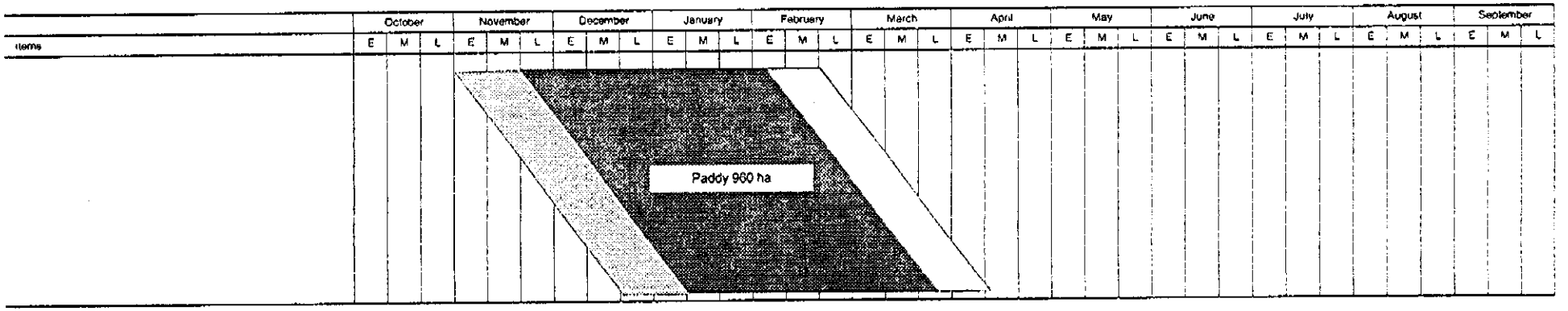
Future Water Requirement for Citrus 10ha (Brantas Atas) Case 2

Items		October			November			December			January			February			March			April			May			June			July			August			September		
		E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L
Citrus 10 ha																																					
A. Crop Water Requirement																																					
1. Crop Intensity		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2. Crop Coefficient		0.57	0.58	0.60	0.60	0.60	0.60	0.62	0.63	0.65	0.65	0.65	0.65	0.63	0.62	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.58	0.57	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55
3. Potential ET (ETo)	(mm/day/area)	4.86	4.86	4.86	4.73	4.73	4.73	4.26	4.26	4.26	4.01	4.01	4.01	4.09	4.09	4.09	4.19	4.19	4.19	4.06	4.06	4.06	3.87	3.87	3.87	3.71	3.71	3.71	3.79	3.79	3.79	4.37	4.37	4.37	4.79	4.79	4.79
4. Consumptive Use (ETc)	(mm/day/area)	2.77	2.82	2.92	2.84	2.84	2.84	2.64	2.68	2.77	2.61	2.61	2.61	2.58	2.54	2.45	2.51	2.51	2.51	2.44	2.44	2.44	2.24	2.21	2.13	2.04	2.04	2.04	2.08	2.08	2.08	2.40	2.40	2.40	2.63	2.63	2.63
7. Crop Water Requirement	(mm/day)	2.77	2.82	2.92	2.84	2.84	2.84	2.64	2.68	2.77	2.61	2.61	2.61	2.58	2.54	2.45	2.51	2.51	2.51	2.44	2.44	2.44	2.24	2.21	2.13	2.04	2.04	2.04	2.08	2.08	2.08	2.40	2.40	2.40	2.63	2.63	2.63
B. Effective Rain	(mm/day)	0.65	0.69	1.38	4.25	4.88	4.62	5.37	4.39	5.51	6.28	2.93	5.94	3.88	6.12	10.11	5.30	4.45	1.95	3.96	3.36	1.25	2.98	0.64	1.19	0.41	0.00	0.69	0.00	0.32	0.00	0.17	0.00	0.08	0.00	0.00	0.11
C. Net Field Requirement	(mm/day)	2.12	2.13	1.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57	0.00	0.00	1.19	0.00	1.57	0.93	1.63	2.04	1.35	2.08	1.77	2.08	2.23	2.40	2.32	2.63	2.63	2.53
	(l/sec/ha)	0.25	0.25	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.14	0.00	0.18	0.11	0.19	0.24	0.16	0.24	0.20	0.24	0.26	0.28	0.27	0.30	0.30	0.29
E. Irrigation Efficiency		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
F. Unit Diversion Requirement	(l/sec/ha)	0.49	0.49	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.27	0.00	0.36	0.22	0.38	0.47	0.31	0.48	0.41	0.48	0.52	0.56	0.54	0.61	0.61	0.58
G. Diversion Requirement	(m3/sec)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Brantas Bawah Diversion Requirements (Case 2)

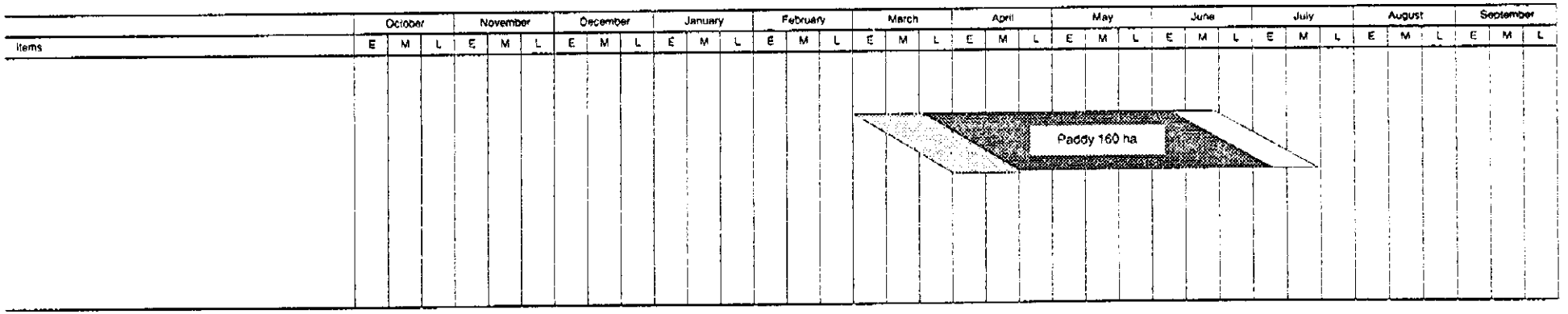
		October			November			December			January			February			March			April			May			June			July			August			September		
		E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L
Rainy Season Paddy 960ha																																						
A. Net Field Water Requirement	(l/sec/ha)	0.00	0.00	0.00	0.00	0.32	0.53	0.60	1.00	0.66	0.34	0.60	0.48	0.50	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B. Irrigation Efficiency		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
C. Unit Diversion Requirement	(l/sec/ha)	0.00	0.00	0.00	0.00	0.63	1.07	1.20	1.99	1.35	0.69	1.60	0.96	1.01	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
D. Diversion Reruirement	(m3/sec)	0.0	0.0	0.0	0.0	0.6	1.0	1.2	1.9	1.3	0.7	1.5	0.9	1.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dry Season Paddy 160ha																																						
A. Net Field Water Requirement	(l/sec/ha)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.85	1.40	0.82	0.72	0.93	0.72	0.95	0.88	0.84	0.53	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B. Irrigation Efficiency		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
C. Unit Diversion Requirement	(l/sec/ha)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23	1.70	2.79	1.64	1.45	1.87	1.44	1.91	1.77	1.68	1.07	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
D. Diversion Reruirement	(m3/sec)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.4	0.3	0.2	0.3	0.2	0.3	0.3	0.3	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Polowijo 210ha																																						
A. Net Field Water Requirement	(l/sec/ha)	0.33	0.26	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.11	0.16	0.25	0.30	0.40	0.40	0.39
B. Irrigation Efficiency		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
C. Unit Diversion Requirement	(l/sec/ha)	0.66	0.51	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.21	0.33	0.49	0.59	0.81	0.81	0.78
D. Diversion Reruirement	(m3/sec)	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.2
Polowijo 80ha																																						
A. Net Field Water Requirement	(l/sec/ha)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B. Irrigation Efficiency		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
C. Unit Diversion Requirement	(l/sec/ha)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
D. Diversion Reruirement	(m3/sec)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Polowijo 580ha																																						
A. Net Field Water Requirement	(l/sec/ha)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.12	0.26	0.31	0.23	0.32	0.23	0.21	0.16	0.12	0.05	0.00	0.00	0.00
B. Irrigation Efficiency		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
C. Unit Diversion Requirement	(l/sec/ha)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.28	0.24	0.52	0.63	0.45	0.64	0.45	0.43	0.33	0.25	0.10	0.00	0.00	0.00
D. Diversion Reruirement	(m3/sec)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.1	0.3	0.4	0.3	0.4	0.3	0.2	0.2	0.1	0.1	0.0	0.0	0.0
Sugarcane 160ha																																						
A. Net Field Water Requirement	(l/sec/ha)	0.47	0.46	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.19	0.00	0.25	0.18	0.28	0.36	0.28	0.39	0.35	0.40	0.45	0.48	0.47	0.54	0.54	0.53
B. Irrigation Efficiency		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
C. Unit Diversion Requirement	(l/sec/ha)	0.93	0.93	0.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.38	0.00	0.49	0.36	0.56	0.71	0.56	0.77	0.70	0.81	0.89	0.96	0.95	1.08	1.09	1.07
D. Diversion Reruirement	(m3/sec)	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.2	0.1	0.2	0.3	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4
Total Diversion Requirement	(m3/sec)	0.4	0.4	0.3	0.0	0.6	1.0	1.2	1.9	1.3	0.7	1.5	0.9	1.0	0.3	0.0	0.0	0.3	0.5	0.3	0.2	0.4	0.2	0.7	0.5	0.8	0.9	0.6	0.7	0.6	0.5	0.6	0.6	0.6	0.6	0.6	0.6

Future Water Requirement for Rainy Season Paddy 960ha (Brantas Bawah) Case 2



Items		October			November			December			January			February			March			April			May			June			July			August			September		
		E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L
A. Land Preparation Requirement																																						
1. Land Preparation Intensity					1/5	2/5	2/5	2/5	2/5	1/5																												
2. Land Preparation Requirement	(mm/day/area)	17.09	17.09	17.09	16.96	16.96	16.96	16.64	16.64	16.64	16.62	16.62	16.62	16.62	16.62	16.62	16.66	16.66	16.66	16.55	16.55	16.55	16.49	16.49	16.49	16.29	16.29	16.29	16.49	16.49	16.49	16.90	16.90	16.90	17.11	17.11	17.11
	(mm/day)				3.39	6.78	6.78	6.66	6.66	3.33																												
3. Water Layer Replacement Intensity									1/5	1/5	1/5	2/5	2/5	1/5	1/5	1/5																						
4. Water Layer Replacement Requirement	(mm/day/area)								5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00																						
	(mm/day)								1.00	1.00	1.00	2.00	2.00	1.00	1.00	1.00																						
5. Total Requirement for Land Preparation	(mm/day)				3.39	6.78	6.78	6.66	7.66	4.33	1.00	2.00	2.00	1.00	1.00	1.00																						
B. Crop Water Requirement																																						
1. Crop Intensity							1/5	2/5	3/5	4/5	1	1	1	1	1	4/5	3/5	2/5	1/5																			
2. Crop Coefficient							1.10	1.10	1.10	1.07	1.05	1.05	0.98	0.32	0.00																							
(HYV)								1.10	1.10	1.10	1.07	1.05	1.05	0.98	0.32	0.00																						
									1.10	1.10	1.10	1.07	1.05	1.05	0.98	0.32	0.00																					
										1.10	1.10	1.10	1.07	1.05	1.05	0.98	0.32	0.00																				
											1.10	1.10	1.10	1.07	1.05	1.05	0.98	0.32	0.00																			
Weighted average							1.10	1.10	1.10	1.09	1.08	1.07	1.05	0.89	0.68	0.59	0.43	0.16	0.00																			
3. Potential ET (ETo)	(mm/day/area)	4.86	4.86	4.86	4.73	4.73	4.73	4.26	4.26	4.26	4.01	4.01	4.01	4.09	4.09	4.09	4.19	4.19	4.19	4.06	4.06	4.06	3.87	3.87	3.87	3.71	3.71	3.71	3.79	3.79	3.79	4.37	4.37	4.37	4.79	4.79	4.79
4. Consumptive Use (ETc)	(mm/day/area)						5.20	4.69	4.69	4.65	4.35	4.31	4.21	3.66	2.78	2.40	1.82	0.67	0.00																			
5. Percolation	(mm/day/area)						3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00																				
6. Crop Water Requirement	(mm/day/area)						8.20	7.69	7.69	7.65	7.35	7.31	7.21	6.66	5.78	5.40	4.82	3.67																				
	(mm/day)						1.64	3.07	4.61	6.12	7.35	7.31	7.21	6.66	5.78	4.32	2.89	1.47																				
C. Effective Rainfall	(mm/day)	0.49	0.51	1.06	3.50	4.05	3.82	4.55	3.66	4.60	5.38	2.41	5.07	3.31	5.37	9.21	4.55	3.78	1.59	3.42	2.88	1.01	2.68	0.51	1.00	0.33	0.00	0.57	0.00	0.25	0.00	0.12	0.00	0.06	0.00	0.00	0.07
D. Net Field Water Requirement	(mm/day)	0.00	0.00	0.00	0.00	2.74	4.60	5.18	8.61	5.85	2.97	6.89	4.14	4.35	1.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	(l/sec/ha)	0.00	0.00	0.00	0.00	0.32	0.53	0.60	1.00	0.68	0.34	0.80	0.48	0.50	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E. Irrigation Efficiency		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
F. Unit Diversion Requirement	(l/sec/ha)	0.00	0.00	0.00	0.00	0.63	1.07	1.20	1.99	1.35	0.69	1.60	0.96	1.01	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G. Diversion Requirement	(m3/sec)	0.0	0.0	0.0	0.0	0.6	1.0	1.2	1.9	1.3	0.7	1.5	0.9	1.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Future Water Requirement for Dry Season Paddy 160ha (Brantas Bawah) Case 2



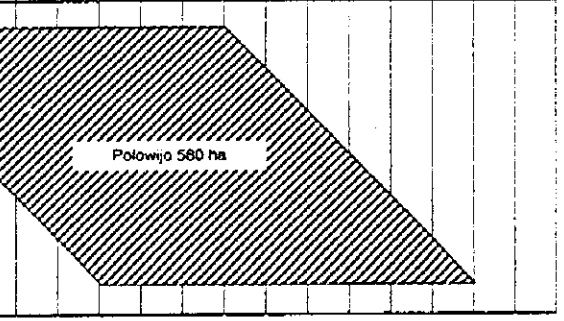
Items		October			November			December			January			February			March			April			May			June			July			August			September		
		E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L
A. Land Preparation Requirement																																					
1. Land Preparation Intensity																	1/3	2/3	2/3	1/3																	
2. Land Preparation Requirement	(mm/day/area)	17.09	17.09	17.09	16.96	16.96	16.96	16.64	16.64	16.64	16.62	16.62	16.62	16.62	16.62	16.62	16.66	16.66	16.66	16.55	16.55	16.55	16.49	16.49	16.49	16.29	16.29	16.29	16.49	16.49	16.49	16.90	16.90	16.90	17.11	17.11	17.11
	(mm/day)																5.55	11.11	11.11	5.52																	
3. Water Layer Replacement Intensity																					1/3	1/3	1/3	1/3	1/3	1/3											
4. Water Layer Replecement Requirement	(mm/day/area)																				5.00	5.00	5.00	5.00	5.00	5.00											
	(mm/day)																				1.67	1.67	1.67	1.67	1.67	1.67											
5. Total Requirement for Land Preparation	(mm/day)																5.55	11.11	11.11	5.52	1.67	1.67	1.67	1.67	1.67	1.67											
B. Crop Water Requirement																																					
1. Crop Intensity																			1/3	2/3	1	1	1	1	1	1	1	2/3	1/3								
2. Crop Coefficient																			1.10	1.10	1.10	1.07	1.05	1.05	0.98	0.32	0.00										
(HYV)																				1.10	1.10	1.10	1.07	1.05	1.05	0.98	0.32	0.00									
																				1.10	1.10	1.10	1.07	1.05	1.05	0.98	0.32	0.00									
Weighted average																			1.10	1.10	1.10	1.09	1.07	1.06	1.03	0.78	0.43	0.16	0.00								
3. Potential ET (ETo)	(mm/day/area)	4.86	4.86	4.86	4.73	4.73	4.73	4.26	4.26	4.26	4.01	4.01	4.01	4.09	4.09	4.09	4.19	4.19	4.19	4.06	4.06	4.06	3.87	3.87	3.87	3.71	3.71	3.71	3.79	3.79	3.79	4.37	4.37	4.37	4.79	4.79	4.79
4. Consumptive Use (ETc)	(mm/day/area)																		4.61	4.47	4.47	4.43	4.15	4.09	3.97	2.91	1.61	0.59	0.00								
5. Percolation	(mm/day/area)																		3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00									
6. Crop Water Requirement	(mm/day/area)																		7.61	7.47	7.47	7.43	7.15	7.09	6.97	5.91	4.61	3.59									
	(mm/day)																		2.54	4.98	7.47	7.43	7.15	7.09	6.97	5.91	4.61	2.40									
C. Effective Rainfall	(mm/day)	0.49	0.51	1.06	3.50	4.05	3.82	4.55	3.68	4.60	5.38	2.41	5.07	3.31	5.37	9.21	4.55	3.78	1.59	3.42	2.88	1.01	2.58	0.51	1.00	0.33	0.00	0.57	0.00	0.25	0.00	0.12	0.00	0.06	0.00	0.00	0.07
D. Net Field Water Requirement	(mm/day)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	7.32	12.06	7.08	6.26	8.08	6.24	8.24	7.64	7.24	4.61	1.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	(l/sec/ha)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.85	1.40	0.82	0.72	0.93	0.72	0.95	0.88	0.84	0.53	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E. Irrigation Efficiency		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
F. Unit Diversion Requirement	(l/sec/ha)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23	1.70	2.79	1.64	1.45	1.87	1.44	1.91	1.77	1.68	1.07	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G. Diversion Requirement	(m3/sec)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.4	0.3	0.2	0.3	0.2	0.3	0.3	0.3	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Future Water Requirement for Polowijo 80ha (Brantas Bawah) Case 2

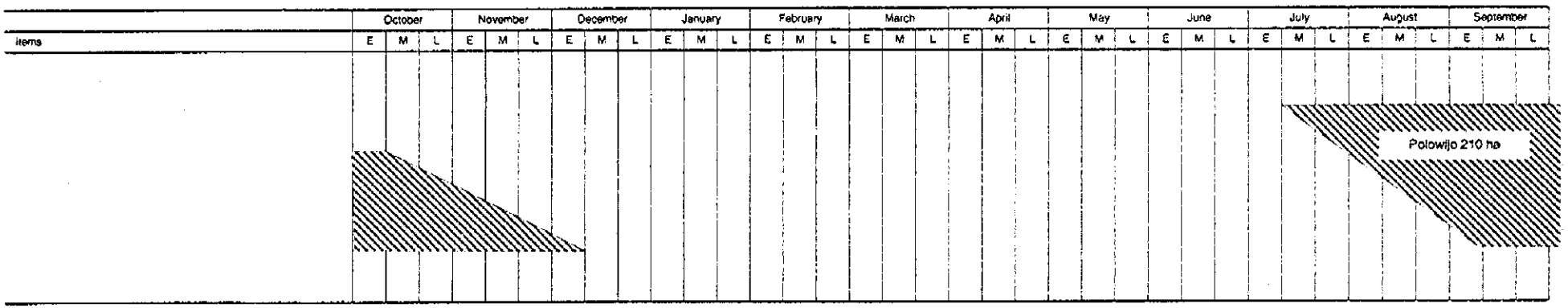
Items		October			November			December			January			February			March			April			May			June			July			August			September		
		E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L
A. Crop Water Requirement																																					
1. Crop Intensity								1/5	2/5	3/5	4/5	1	1	1	1	1	4/5	3/5	2/5	1/5																	
2. Crop Coefficient								0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73																	
3. Potential ET (ETo)	(mm/day/area)	4.86	4.86	4.86	4.73	4.73	4.73	4.26	4.26	4.26	4.01	4.01	4.01	4.09	4.09	4.09	4.19	4.19	4.19	4.06	4.06	4.06	3.87	3.87	3.87	3.71	3.71	3.71	3.79	3.79	3.79	4.37	4.37	4.37	4.79	4.79	4.79
4. Consumptive Use (ETc)	(mm/day/area)							3.11	3.11	3.11	2.93	2.93	2.93	2.99	2.99	2.99	3.06	3.06	3.06	2.96																	
7. Crop Water Requirement	(mm/day)							0.62	1.24	1.87	2.34	2.93	2.93	2.99	2.99	2.99	2.45	1.84	1.22	0.59																	
B. Effective Rain	(mm/day)	0.00	0.00	0.00	0.00	0.00	0.00	5.65	4.60	5.71	6.51	3.04	6.16	4.06	6.44	10.75	5.53	4.72	2.07	4.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C. Net Field Requirement	(mm/day)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	(l/sec/ha)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E. Irrigation Efficiency		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
F. Unit Diversion Requirement	(l/sec/ha)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G. Diversion Requirement	(m3/sec)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Future Water Requirement for Polowijo 580ha (Brantas Bawah) Case 2

Items		October			November			December			January			February			March			April			May			June			July			August			September		
		E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L
A. Crop Water Requirement																																					
1. Crop Intensity																					1/6	1/3	1/2	2/3	5/6	1	1	1	1	5/6	2/3	1/2	1/3	1/6			
2. Crop Coefficient																					0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73			
3. Potential ET (ETo)	(mm/day/area)	4.86	4.86	4.86	4.73	4.73	4.73	4.26	4.26	4.26	4.01	4.01	4.01	4.09	4.09	4.09	4.19	4.19	4.19	4.06	4.06	4.06	3.87	3.87	3.87	3.71	3.71	3.71	3.79	3.79	3.79	4.37	4.37	4.37	4.79	4.79	4.79
4. Consumptive Use (ETc)	(mm/day/area)																				2.96	2.96	2.83	2.83	2.83	2.71	2.71	2.71	2.77	2.77	2.77	3.19	3.19	3.19			
7. Crop Water Requirement	(mm/day)																				0.49	0.99	1.41	1.88	2.35	2.71	2.71	2.71	2.77	2.31	1.84	1.60	1.06	0.53			
B. Effective Rain	(mm/day)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.58	1.33	3.20	0.69	1.30	0.45	0.00	0.75	0.00	0.35	0.00	0.19	0.09	0.09	0.00	0.00	0.00
C. Net Field Requirement	(mm/day)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.19	1.05	2.26	2.71	1.96	2.77	1.96	1.84	1.41	1.06	0.44	0.00	0.00	0.00
	(l/sec/ha)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.12	0.26	0.31	0.23	0.32	0.23	0.21	0.16	0.12	0.05	0.00	0.00	0.00
E. Irrigation Efficiency		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
F. Unit Diversion Requirement	(l/sec/ha)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.28	0.24	0.52	0.63	0.45	0.64	0.45	0.43	0.33	0.25	0.10	0.00	0.00	0.00
G. Diversion Requirement	(m3/sec)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.1	0.3	0.4	0.3	0.4	0.3	0.2	0.2	0.1	0.1	0.0	0.0	0.0



Future Water Requirement for Polowijo 210ha (Brantas Bawah) Case 2



Items		October			November			December			January			February			March			April			May			June			July			August			September		
		E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L
A. Crop Water Requirement																																					
1. Crop Intensity		1	5/6	2/3	1/2	1/3	1/6																						1/6	1/3	1/2	2/3	5/6	1	1	1
2. Crop Coefficient		0.73	0.73	0.73	0.73	0.73	0.73																						0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73
3. Potential ET (ETo)	(mm/day/area)	4.86	4.86	4.86	4.73	4.73	4.73	4.26	4.26	4.26	4.01	4.01	4.01	4.09	4.09	4.09	4.19	4.19	4.19	4.06	4.06	4.06	3.87	3.87	3.87	3.71	3.71	3.71	3.79	3.79	3.79	4.37	4.37	4.37	4.79	4.79	4.79
4. Consumptive Use (ETc)	(mm/day/area)	3.55	3.55	3.55	3.45	3.45	3.45																						2.77	2.77	3.19	3.19	3.19	3.50	3.50	3.50
7. Crop Water Requirement	(mm/day)	3.55	2.96	2.37	1.73	1.15	0.58																						0.46	0.92	1.60	2.13	2.66	3.50	3.50	3.50
B. Effective Rain	(mm/day)	0.71	0.74	1.47	4.51	5.18	4.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.19	0.00	0.09	0.00	0.00	0.12
C. Net Field Requirement	(mm/day)	2.84	2.22	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.92	1.41	2.13	2.57	3.50	3.50	3.38
	(l/sec/ha)	0.33	0.26	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.11	0.16	0.25	0.30	0.40	0.40	0.39
E. Irrigation Efficiency		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
F. Unit Diversion Requirement	(l/sec/ha)	0.66	0.51	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.21	0.33	0.49	0.59	0.81	0.81	0.78
G. Diversion Requirement	(m3/sec)	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.2

Future Water Requirement for Sugarcane 160ha (Brantas Bawah) Case 2

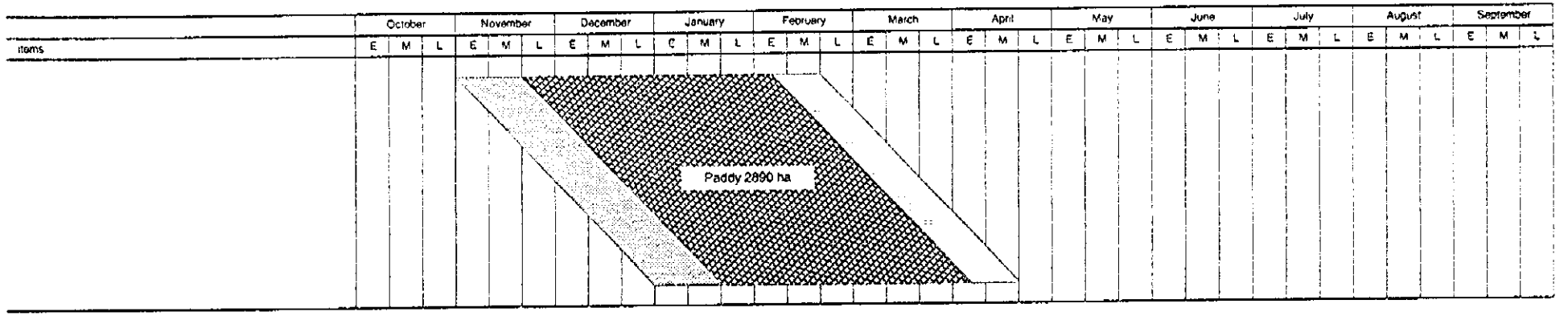
Items		October			November			December			January			February			March			April			May			June			July			August			September		
		E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L
A. Crop Water Requirement																																					
1. Crop Intensity		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2. Crop Coefficient		0.99	0.99	0.99	0.99	0.99	0.98	0.94	0.89	0.85	0.84	0.82	0.80	0.79	0.77	0.76	0.75	0.74	0.73	0.73	0.73	0.73	0.73	0.73	0.74	0.78	0.83	0.87	0.89	0.90	0.92	0.93	0.95	0.96	0.97	0.98	0.99
3. Potential ET (ETo)	(mm/day/area)	4.86	4.86	4.86	4.73	4.73	4.73	4.26	4.26	4.26	4.01	4.01	4.01	4.09	4.09	4.09	4.19	4.19	4.19	4.06	4.06	4.06	3.87	3.87	3.87	3.71	3.71	3.71	3.79	3.79	3.79	4.37	4.37	4.37	4.79	4.79	4.79
4. Consumptive Use (ETc)	(mm/day/area)	4.81	4.81	4.81	4.68	4.68	4.64	4.00	3.79	3.62	3.37	3.29	3.21	3.23	3.15	3.11	3.14	3.10	3.06	2.96	2.96	2.96	2.83	2.83	2.86	2.89	3.08	3.23	3.34	3.41	3.49	4.06	4.15	4.20	4.65	4.69	4.74
7. Crop Water Requirement	(mm/day)	4.81	4.81	4.81	4.68	4.68	4.64	4.00	3.79	3.62	3.37	3.29	3.21	3.23	3.15	3.11	3.14	3.10	3.06	2.96	2.96	2.96	2.83	2.83	2.86	2.89	3.08	3.23	3.34	3.41	3.49	4.06	4.15	4.20	4.65	4.69	4.74
B. Effective Rain	(mm/day)	0.78	0.81	1.62	4.96	5.70	5.38	6.11	4.89	5.99	6.80	3.15	6.33	4.16	6.55	10.68	5.68	4.74	2.07	4.21	3.58	1.33	3.20	0.69	1.31	0.46	0.00	0.79	0.00	0.37	0.00	0.20	0.00	0.10	0.00	0.00	0.13
C. Net Field Requirement	(mm/day)	4.04	4.00	3.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00	1.64	0.00	2.14	1.55	2.44	3.08	2.43	3.34	3.04	3.49	3.86	4.15	4.10	4.65	4.69	4.61
	(l/sec/ha)	0.47	0.46	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.19	0.00	0.25	0.18	0.28	0.36	0.28	0.39	0.35	0.40	0.45	0.48	0.47	0.54	0.54	0.53
E. Irrigation Efficiency		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
F. Unit Diversion Requirement	(l/sec/ha)	0.93	0.93	0.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.38	0.00	0.49	0.36	0.56	0.71	0.56	0.77	0.70	0.81	0.89	0.96	0.95	1.08	1.09	1.07
G. Diversion Requirement	(m3/sec)	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.2	0.1	0.2	0.3	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4

Sugarcane 160 ha

Molek Diversion Requirements (Case 2)

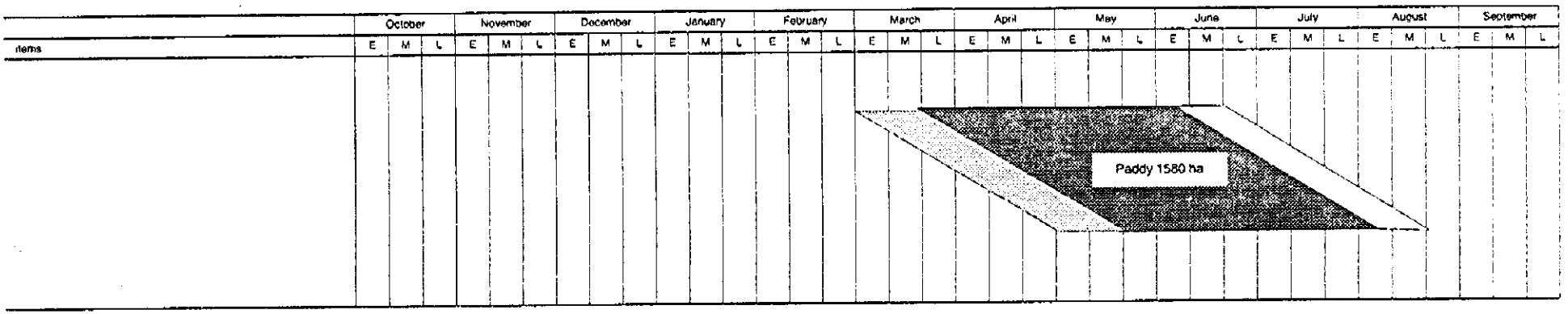
		October			November			December			January			February			March			April			May			June			July			August			September		
		E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L
Rainy Season Paddy 2890ha																																					
A. Net Field Water Requirement	(l/sec/ha)	0.00	0.00	0.00	0.14	0.11	0.27	0.44	0.71	0.41	0.40	0.58	0.20	0.39	0.48	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B. Irrigation Efficiency		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
C. Unit Diversion Requirement	(l/sec/ha)	0.00	0.00	0.00	0.27	0.23	0.55	0.89	1.43	0.82	0.80	1.16	0.39	0.79	0.95	0.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
D. Diversion Reruirement	(m3/sec)	0.0	0.0	0.0	0.8	0.7	1.6	2.6	4.1	2.4	2.3	3.4	1.1	2.3	2.7	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dry Season Paddy 60ha																																					
A. Net Field Water Requirement	(l/sec/ha)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.46	0.58	0.87	1.08	0.95	0.99	1.01	0.67	0.71	0.64	0.51	0.27	0.14	0.00	0.00	0.00	0.00	0.00	0.00
B. Irrigation Efficiency		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
C. Unit Diversion Requirement	(l/sec/ha)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.91	1.16	1.75	2.15	1.91	1.98	2.01	1.34	1.41	1.27	1.02	0.54	0.28	0.00	0.00	0.00	0.00	0.00	0.00
D. Diversion Reruirement	(m3/sec)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.4	1.8	2.8	3.4	3.0	3.1	3.2	2.1	2.2	2.0	1.6	0.9	0.4	0.0	0.0	0.0	0.0	0.0	0.0
Polowijo 240ha																																					
A. Net Field Water Requirement	(l/sec/ha)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B. Irrigation Efficiency		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
C. Unit Diversion Requirement	(l/sec/ha)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
D. Diversion Reruirement	(m3/sec)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Polowijo 1580ha																																					
A. Net Field Water Requirement	(l/sec/ha)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.24	0.00	0.23	0.32	0.34	0.28	0.23	0.10	0.12	0.06	0.00	0.00	0.00
B. Irrigation Efficiency		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
C. Unit Diversion Requirement	(l/sec/ha)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.28	0.47	0.00	0.47	0.64	0.68	0.56	0.46	0.21	0.23	0.12	0.00	0.00	0.00
D. Diversion Reruirement	(m3/sec)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.7	0.0	0.7	1.0	1.1	0.9	0.7	0.3	0.4	0.2	0.0	0.0	0.0
Polowijo 1930ha																																					
A. Net Field Water Requirement	(l/sec/ha)	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.11	0.10	0.24	0.31	0.40	0.40	0.40
B. Irrigation Efficiency		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
C. Unit Diversion Requirement	(l/sec/ha)	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.23	0.21	0.46	0.62	0.81	0.81	0.81
D. Diversion Reruirement	(m3/sec)	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4	0.4	0.9	1.2	1.6	1.6	1.6
Cotton 30ha																																					
A. Net Field Water Requirement	(l/sec/ha)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.16	0.35	0.44	0.08	0.36	0.46	0.49	0.44	0.36	0.27	0.32	0.33	0.36	0.18	0.00
B. Irrigation Efficiency		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
C. Unit Diversion Requirement	(l/sec/ha)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.31	0.71	0.87	0.15	0.73	0.93	0.98	0.89	0.73	0.54	0.65	0.66	0.72	0.36	0.00
D. Diversion Reruirement	(m3/sec)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sugarcane 240ha																																					
A. Net Field Water Requirement	(l/sec/ha)	0.02	0.26	0.17	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.11	0.26	0.30	0.00	0.27	0.38	0.41	0.42	0.43	0.38	0.47	0.49	0.54	0.54	0.55
B. Irrigation Efficiency		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
C. Unit Diversion Requirement	(l/sec/ha)	0.04	0.51	0.34	0.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.22	0.51	0.60	0.00	0.55	0.77	0.82	0.83	0.86	0.77	0.95	0.97	1.07	1.08	1.09
D. Diversion Reruirement	(m3/sec)	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3
Total Diversion Requirement	(m3/sec)	0.0	0.4	0.1	0.9	0.7	1.6	2.6	4.1	2.4	2.3	3.4	1.1	2.3	2.7	1.3	0.0	0.1	1.4	1.8	2.8	3.4	3.1	3.6	4.0	2.1	3.0	3.2	2.9	2.2	1.7	0.9	1.5	1.6	1.9	1.9	1.9

Future Water Requirement for Rainy Season Paddy 2890ha (Molek) Case 2



Items		October			November			December			January			February			March			April			May			June			July			August			September		
		E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L
A. Land Preparation Requirement																																					
1. Land Preparation Intensity					1/6	1/3	1/3	1/3	1/3	1/3	1/6																									
2. Land Preparation Requirement	(mm/day/area)	17.15	17.15	17.15	16.76	16.76	16.76	16.54	16.54	16.54	16.27	16.27	16.27	16.40	16.40	16.40	16.44	16.44	16.44	16.67	16.67	16.67	16.63	16.63	16.63	16.47	16.47	16.47	16.59	16.59	16.59	16.82	16.82	16.82	17.06	17.06	17.06
	(mm/day)				2.79	5.59	5.59	5.51	5.51	5.51	2.71																										
3. Water Layer Replacement Intensity									1/6	1/6	1/6	1/3	1/3	1/3	1/6	1/6	1/6																				
4. Water Layer Replacement Requirement	(mm/day/area)								5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00																				
	(mm/day)								0.83	0.83	0.83	1.67	1.67	1.67	0.83	0.83	0.83																				
5. Total Requirement for Land Preparation	(mm/day)				2.79	5.59	5.59	5.51	6.35	6.35	3.55	1.67	1.67	1.67	0.83	0.83	0.83																				
B. Crop Water Requirement																																					
1. Crop Intensity							1/6	1/3	1/2	2/3	5/6	1	1	1	1	5/6	2/3	1/2	1/3	1/6																	
2. Crop Coefficient							1.10	1.10	1.10	1.07	1.05	1.05	0.98	0.32	0.00																						
(HYV)								1.10	1.10	1.10	1.07	1.05	1.05	0.98	0.32	0.00																					
									1.10	1.10	1.10	1.07	1.05	1.05	0.98	0.32	0.00																				
										1.10	1.10	1.10	1.07	1.05	1.05	0.98	0.32	0.00																			
											1.10	1.10	1.10	1.07	1.05	1.05	0.98	0.32	0.00																		
												1.10	1.10	1.10	1.07	1.05	1.05	0.98	0.32	0.00																	
Weighted average							1.10	1.10	1.10	1.09	1.08	1.08	1.06	0.93	0.75	0.68	0.59	0.43	0.16	0.00																	
3. Potential ET (ETo)	(mm/day/area)	4.93	4.93	4.93	4.36	4.36	4.36	4.06	4.06	4.06	3.66	3.66	3.66	3.83	3.83	3.83	3.90	3.90	3.90	4.16	4.16	4.16	4.14	4.14	4.14	3.86	3.86	3.86	4.04	4.04	4.04	4.38	4.38	4.38	4.77	4.77	4.77
4. Consumptive Use (ETc)	(mm/day/area)						4.79	4.47	4.47	4.44	3.97	3.95	3.87	3.56	2.85	2.60	2.29	1.69	0.62	0.00																	
5. Percolation	(mm/day/area)						3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00																		
6. Crop Water Requirement	(mm/day/area)						7.79	7.47	7.47	7.44	6.97	6.95	6.87	6.56	5.85	5.60	5.29	4.69	3.62																		
	(mm/day)						1.30	2.49	3.73	4.96	5.81	6.95	6.87	6.56	5.85	4.67	3.53	2.34	1.21																		
C. Effective Rainfall	(mm/day)	3.23	1.78	2.29	1.61	4.60	4.53	4.16	3.90	7.78	5.90	3.59	6.85	4.83	2.58	3.51	6.98	6.19	2.75	3.08	2.02	2.11	1.61	0.59	0.34	2.46	0.61	0.02	0.00	0.02	0.00	0.50	0.04	0.00	0.00	0.00	0.00
D. Net Field Water Requirement	(mm/day)	0.00	0.00	0.00	1.18	0.98	2.36	3.84	6.18	3.53	3.45	5.02	1.69	3.40	4.11	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	(l/sec/ha)	0.00	0.00	0.00	0.14	0.11	0.27	0.44	0.71	0.41	0.40	0.58	0.20	0.39	0.48	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E. Irrigation Efficiency		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
F. Unit Diversion Requirement	(l/sec/ha)	0.00	0.00	0.00	0.27	0.23	0.55	0.89	1.43	0.82	0.80	1.16	0.39	0.79	0.95	0.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G. Diversion Requirement	(m3/sec)	0.0	0.0	0.0	0.8	0.7	1.6	2.6	4.1	2.4	2.3	3.4	1.1	2.3	2.7	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Future Water Requirement for Dry Season Paddy 1580ha (Molek) Case 2

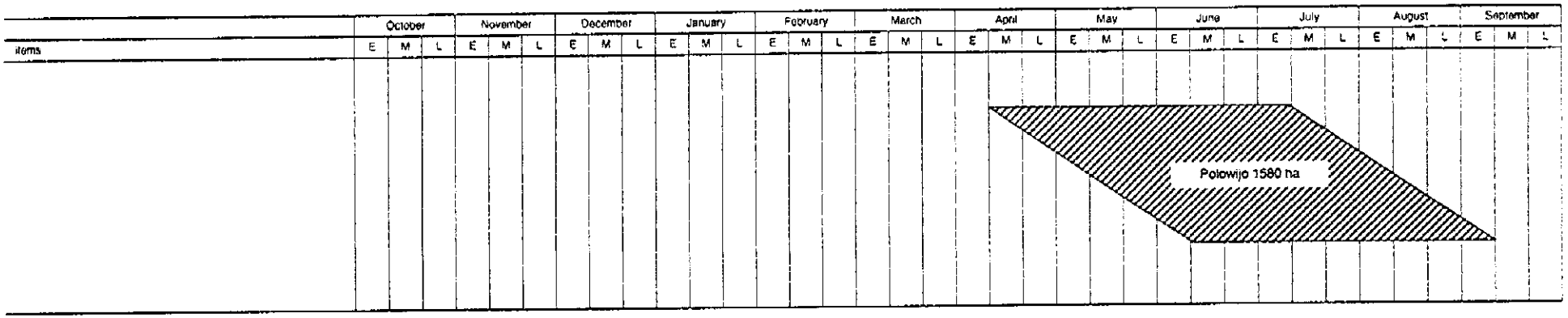


Items		October			November			December			January			February			March			April			May			June			July			August			September		
		E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L
A. Land Preparation Requirement																																					
1. Land Preparation Intensity																	1/6	1/3	1/3	1/3	1/3	1/3	1/6														
2. Land Preparation Requirement	(mm/day/area)	17.15	17.15	17.15	16.76	16.76	16.76	16.54	16.54	16.54	16.27	16.27	16.27	16.40	16.40	16.40	16.44	16.44	16.44	16.67	16.67	16.67	16.63	16.63	16.63	16.47	16.47	16.47	16.59	16.59	16.59	16.82	16.82	16.82	17.06	17.06	17.06
	(mm/day)																2.74	5.48	5.48	5.56	5.56	5.56	2.77														
3. Water Layer Replacement Intensity																					1/6	1/6	1/6	1/3	1/3	1/3	1/6	1/6	1/6								
4. Water Layer Replacement Requirement	(mm/day/area)																				5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00								
	(mm/day)																				0.83	0.83	0.83	1.67	1.67	1.67	0.83	0.83	0.83								
5. Total Requirement for Land Preparation	(mm/day)																2.74	5.48	5.48	5.56	6.39	6.39	3.60	1.67	1.67	1.67	0.83	0.83	0.83								
B. Crop Water Requirement																																					
1. Crop Intensity																			1/6	1/3	1/2	2/3	5/6	1	1	1	1	5/6	2/3	1/2	1/3	1/6					
2. Crop Coefficient																			1.10	1.10	1.10	1.07	1.05	1.05	0.98	0.32	0.00										
(HYV)																				1.10	1.10	1.10	1.07	1.05	1.05	0.98	0.32	0.00									
																					1.10	1.10	1.10	1.07	1.05	1.05	0.98	0.32	0.00								
																						1.10	1.10	1.10	1.07	1.05	1.05	0.98	0.32	0.00							
																							1.10	1.10	1.10	1.07	1.05	1.05	0.98	0.32	0.00						
																								1.10	1.10	1.10	1.07	1.05	1.05	0.98	0.32	0.00					
Weighted average																			1.10	1.10	1.10	1.09	1.08	1.08	1.06	0.93	0.75	0.68	0.59	0.43	0.16	0.00					
3. Potential ET (ETo)	(mm/day/area)	4.93	4.93	4.93	4.36	4.36	4.36	4.06	4.06	4.06	3.66	3.66	3.66	3.83	3.83	3.83	3.90	3.90	3.90	4.16	4.16	4.16	4.14	4.14	4.14	3.86	3.86	3.86	4.04	4.04	4.04	4.38	4.38	4.38	4.77	4.77	4.77
4. Consumptive Use (ETc)	(mm/day/area)																		4.28	4.57	4.57	4.54	4.48	4.46	4.38	3.58	2.88	2.62	2.37	1.75	0.65	0.00					
5. Percolation	(mm/day/area)																		3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00						
6. Crop Water Requirement	(mm/day/area)																		7.28	7.57	7.57	7.54	7.48	7.46	7.38	6.58	5.88	5.62	5.37	4.75	3.65						
	(mm/day)																		1.21	2.52	3.79	5.03	6.24	7.46	7.38	6.58	5.88	4.69	3.58	2.38	1.22						
C. Effective Rainfall	(mm/day)	3.23	1.78	2.29	1.61	4.60	4.53	4.16	3.00	7.76	5.90	3.59	6.85	4.83	2.58	3.51	6.98	5.19	2.75	3.08	2.62	2.11	1.61	0.59	0.34	2.46	0.61	0.02	0.00	0.07	0.00	0.50	0.04	0.00	0.00	0.00	0.00
D. Net Field Water Requirement	(mm/day)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.29	3.94	5.00	7.56	9.31	8.23	8.54	8.70	5.79	6.10	5.50	4.42	2.35	1.22	0.00	0.00	0.00	0.00	0.00	0.00
	(l/sec/ha)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.46	0.59	0.87	1.08	0.95	0.99	1.01	0.67	0.71	0.64	0.51	0.27	0.14	0.00	0.00	0.00	0.00	0.00	0.00
E. Irrigation Efficiency		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
F. Unit Diversion Requirement	(l/sec/ha)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.91	1.16	1.75	2.15	1.91	1.98	2.01	1.34	1.41	1.27	1.02	0.54	0.28	0.00	0.00	0.00	0.00	0.00	0.00
G. Diversion Requirement	(m3/sec)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.4	1.8	2.8	3.4	3.0	3.1	3.2	2.1	2.2	2.0	1.6	0.9	0.4	0.0	0.0	0.0	0.0	0.0	0.0

Future Water Requirement for Polowijo 240ha (Molek) 1 Month Later

Items		October			November			December			January			February			March			April			May			June			July			August			September		
		E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L
A. Crop Water Requirement																																					
1. Crop Intensity								1/6	1/3	1/2	2/3	5/6	1	1	1	1	5/6	2/3	1/2	1/3	1/6																
2. Crop Coefficient								0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73																
3. Potential ET (ETo)	(mm/day/area)	4.93	4.93	4.93	4.36	4.36	4.36	4.06	4.06	4.06	3.66	3.66	3.66	3.83	3.83	3.83	3.90	3.90	3.90	4.16	4.16	4.16	4.14	4.14	4.14	3.86	3.86	3.86	4.04	4.04	4.04	4.38	4.38	4.38	4.77	4.77	4.77
4. Consumptive Use (ETc)	(mm/day/area)							2.96	2.96	2.96	2.67	2.67	2.67	2.80	2.80	2.80	2.84	2.84	2.84	3.03	3.03																
7. Crop Water Requirement	(mm/day)							0.49	0.99	1.48	1.78	2.23	2.67	2.80	2.80	2.80	2.37	1.90	1.42	1.01	0.51																
8. Effective Rain	(mm/day)	0.00	0.00	0.00	0.00	0.00	0.00	5.12	4.82	9.27	6.90	4.31	7.96	5.67	3.13	4.19	8.26	6.23	3.42	3.84	3.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C. Net Field Requirement	(mm/day)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	(l/sec/ha)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E. Irrigation Efficiency		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
F. Unit Diversion Requirement	(l/sec/ha)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G. Diversion Requirement	(m3/sec)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

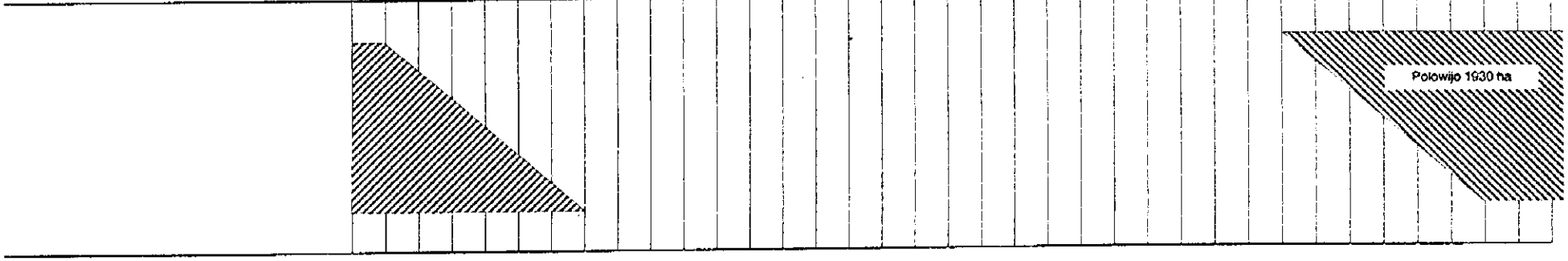
Future Water Requirement for Polowijo 1580ha (Molek) 1 Month Later



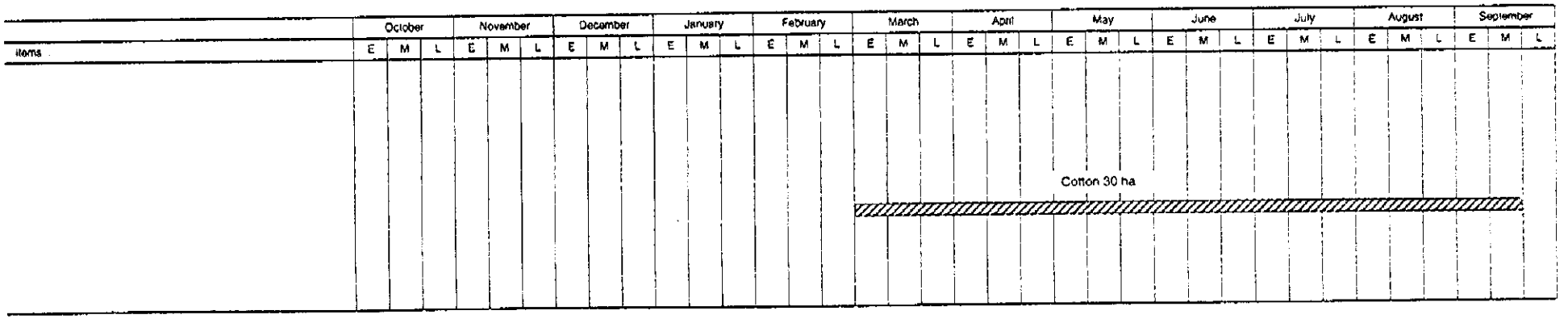
Items		October			November			December			January			February			March			April			May			June			July			August			September		
		E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L
A. Crop Water Requirement																																					
1. Crop Intensity																					1/6	1/3	1/2	2/3	5/6	1	1	1	1	5/6	2/3	1/2	1/3	1/6			
2. Crop Coefficient																					0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73			
3. Potential ET (ETo)	(mm/day/area)	4.93	4.93	4.93	4.36	4.36	4.36	4.06	4.06	4.06	3.66	3.66	3.66	3.83	3.83	3.83	3.90	3.90	3.90	4.16	4.16	4.16	4.14	4.14	4.14	3.86	3.86	3.86	4.04	4.04	4.04	4.38	4.38	4.38	4.77	4.77	4.77
4. Consumptive Use (ETc)	(mm/day/area)																				3.03	3.03	3.02	3.02	3.02	2.82	2.82	2.82	2.95	2.95	2.95	3.20	3.20	3.20			
7. Crop Water Requirement	(mm/day)																				0.51	1.01	1.51	2.01	2.52	2.82	2.82	2.82	2.95	2.46	1.97	1.60	1.07	0.53			
B. Effective Rain	(mm/day)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.29	2.68	2.09	0.80	0.48	3.03	0.81	0.04	0.00	0.04	0.00	0.70	0.06	0.00	0.00	0.00	0.00
C. Net Field Requirement	(mm/day)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.21	2.04	0.00	2.01	2.78	2.95	2.42	1.97	0.90	1.01	0.53	0.00	0.00	0.00
	(l/sec/ha)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.24	0.00	0.23	0.32	0.34	0.28	0.23	0.10	0.12	0.06	0.00	0.00	0.00
E. Irrigation Efficiency		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
F. Unit Diversion Requirement	(l/sec/ha)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.28	0.47	0.00	0.47	0.64	0.68	0.56	0.46	0.21	0.23	0.12	0.00	0.00	0.00
G. Diversion Requirement	(m3/sec)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.7	0.0	0.7	1.0	1.1	0.9	0.7	0.3	0.4	0.2	0.0	0.0	0.0

Future Water Requirement for Polowijo 1930ha (Molek) Case 2

Items		October			November			December			January			February			March			April			May			June			July			August			September		
		E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L
A. Crop Water Requirement																																					
1. Crop Intensity		1	5/6	2/3	1/2	1/3	1/6																						1/6	1/3	1/2	2/3	5/6	1	1	1
2. Crop Coefficient		0.73	0.73	0.73	0.73	0.73	0.73																						0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73
3. Potential ET (ETo)	(mm/day/area)	4.93	4.93	4.93	4.36	4.36	4.36	4.06	4.06	4.06	3.66	3.66	3.66	3.83	3.83	3.83	3.90	3.90	3.90	4.16	4.16	4.16	4.14	4.14	4.14	3.86	3.86	3.86	4.04	4.04	4.04	4.38	4.38	4.38	4.77	4.77	4.77
4. Consumptive Use (ETc)	(mm/day/area)	3.60	3.60	3.60	3.18	3.18	3.18																							2.95	2.95	3.20	3.20	3.20	3.48	3.48	3.48
7. Crop Water Requirement	(mm/day)	3.60	3.00	2.40	1.59	1.06	0.53																							0.49	0.98	1.60	2.13	2.66	3.48	3.48	3.48
B. Effective Rain	(mm/day)	4.77	2.43	3.06	2.10	5.71	5.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.70	0.08	0.00	0.00	0.00	0.00
C. Net Field Requirement	(mm/day)	0.00	0.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.45	0.98	0.90	2.07	2.66	3.48	3.48	3.48
	(l/sec/ha)	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.11	0.10	0.24	0.31	0.40	0.40	0.40
E. Irrigation Efficiency		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
F. Unit Diversion Requirement	(l/sec/ha)	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.23	0.21	0.48	0.62	0.81	0.81	0.81
G. Diversion Requirement	(m3/sec)	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4	0.4	0.9	1.2	1.6	1.6	1.6

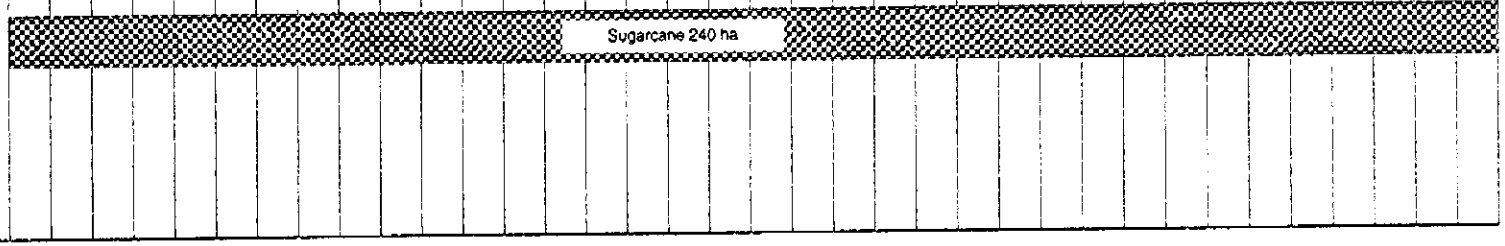


Future Water Requirement for Cotton 30ha (Molek) Case 2



Items		October			November			December			January			February			March			April			May			June			July			August			September		
		E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L
A. Crop Water Requirement																																					
1. Crop Intensity																	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2. Crop Coefficient																	0.5	0.5	0.5	0.55	0.64	0.75	0.86	0.95	1.04	1.05	1.05	1.05	1.05	0.96	0.78	0.69	0.65	0.65	0.65	0.33	
3. Potential ET (ETo)	(mm/day/area)	4.93	4.93	4.93	4.36	4.36	4.36	4.06	4.06	4.06	3.66	3.66	3.66	3.83	3.83	3.83	3.90	3.90	3.90	4.16	4.16	4.16	4.14	4.14	4.14	3.86	3.86	3.86	4.04	4.04	4.04	4.38	4.38	4.38	4.77	4.77	4.77
4. Consumptive Use (ETc)	(mm/day/area)																1.95	1.95	1.95	2.29	2.66	3.12	3.56	3.93	4.30	4.05	4.05	4.05	4.24	3.88	3.15	3.02	2.85	2.85	3.10	1.57	
7. Crop Water Requirement	(mm/day)																1.95	1.95	1.95	2.29	2.66	3.12	3.56	3.93	4.30	4.05	4.05	4.05	4.24	3.88	3.15	3.02	2.85	2.85	3.10	1.57	
B. Effective Rain	(mm/day)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.35	5.54	3.04	3.52	3.16	2.70	2.20	0.87	0.53	3.39	0.90	0.04	0.00	0.04	0.00	0.69	0.06	0.00	0.00	0.00	0.00
C. Net Field Requirement	(mm/day)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.42	1.36	3.06	3.77	0.66	3.15	4.01	4.24	3.84	3.15	2.34	2.79	2.85	3.10	1.57	0.00
	(l/sec/ha)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.16	0.35	0.44	0.08	0.36	0.46	0.49	0.44	0.36	0.27	0.32	0.33	0.36	0.18	0.00
E. Irrigation Efficiency		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
F. Unit Diversion Requirement	(l/sec/ha)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.31	0.71	0.87	0.15	0.73	0.93	0.98	0.89	0.73	0.54	0.65	0.66	0.72	0.35	0.00
G. Diversion Requirement	(m3/sec)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Future Water Requirement for Sugarcane 240ha (Molek) Case 2

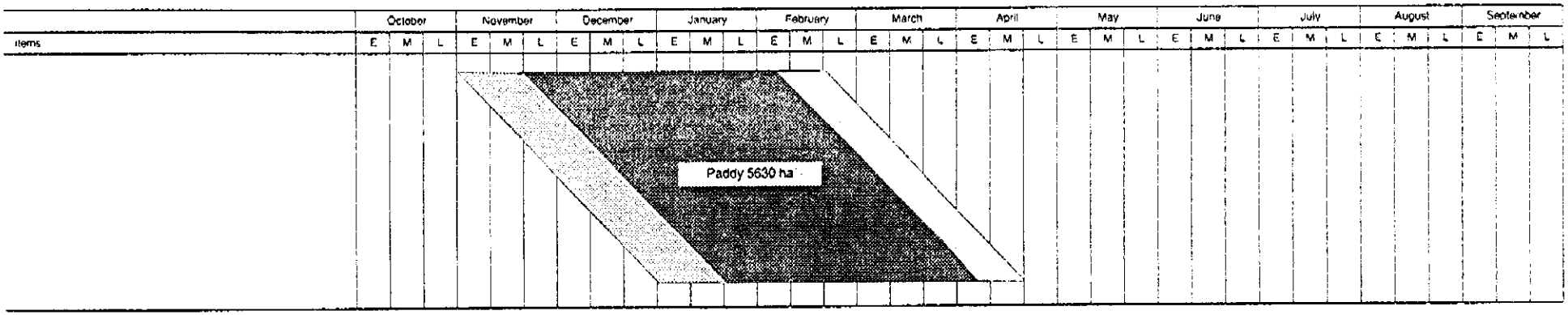


Items		October			November			December			January			February			March			April			May			June			July			August			September		
		E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L
A. Crop Water Requirement																																						
1. Crop Intensity		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2. Crop Coefficient		0.99	0.99	0.99	0.99	0.99	0.98	0.94	0.89	0.85	0.84	0.82	0.80	0.79	0.77	0.76	0.75	0.74	0.73	0.73	0.73	0.73	0.73	0.73	0.74	0.79	0.83	0.87	0.88	0.90	0.92	0.93	0.95	0.96	0.97	0.98	0.99
3. Potential ET (ETo)	(mm/day/area)	4.93	4.93	4.93	4.36	4.36	4.36	4.06	4.06	4.06	3.66	3.66	3.66	3.83	3.83	3.83	3.90	3.90	3.90	4.16	4.16	4.16	4.14	4.14	4.14	3.86	3.86	3.86	4.04	4.04	4.04	4.38	4.38	4.38	4.77	4.77	4.77
4. Consumptive Use (ETc)	(mm/day/area)	4.88	4.88	4.88	4.31	4.31	4.27	3.82	3.61	3.45	3.07	3.00	2.93	3.03	2.95	2.91	2.92	2.88	2.84	3.03	3.03	3.03	3.02	3.02	3.06	3.01	3.20	3.36	3.56	3.64	3.72	4.07	4.16	4.20	4.63	4.67	4.72
7. Crop Water Requirement	(mm/day)	4.88	4.88	4.88	4.31	4.31	4.27	3.82	3.61	3.45	3.07	3.00	2.93	3.03	2.95	2.91	2.92	2.88	2.84	3.03	3.03	3.03	3.02	3.02	3.06	3.01	3.20	3.36	3.56	3.64	3.72	4.07	4.16	4.20	4.63	4.67	4.72
B. Effective Rain	(mm/day)	4.69	2.67	3.39	2.31	6.27	6.16	5.54	5.12	9.72	7.21	4.47	6.18	5.61	3.18	4.24	8.33	6.26	3.42	3.84	3.29	2.68	2.09	0.80	0.48	3.09	0.84	0.04	0.00	0.04	0.00	0.75	0.06	0.00	0.00	0.00	0.00
C. Net Field Requirement	(mm/day)	0.18	2.21	1.49	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.93	2.22	2.58	0.00	2.36	3.32	3.56	3.59	3.72	3.32	4.10	4.20	4.63	4.67	4.72
	(l/sec/ha)	0.02	0.26	0.17	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.11	0.26	0.30	0.00	0.27	0.38	0.41	0.42	0.43	0.38	0.47	0.49	0.54	0.54	0.55
E. Irrigation Efficiency		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
F. Unit Diversion Requirement	(l/sec/ha)	0.04	0.51	0.34	0.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.22	0.51	0.60	0.00	0.55	0.77	0.82	0.83	0.86	0.77	0.95	0.97	1.07	1.08	1.09
G. Diversion Requirement	(m3/sec)	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3

Lodoagung Diversion Requirements (Case 2)

		October			November			December			January			February			March			April			May			June			July			August			September		
		E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L
Rainy Season Paddy 5630ha																																						
A. Net Field Water Requirement	(l/sec/ha)	0.00	0.00	0.00	0.30	0.52	0.65	0.42	1.05	1.04	0.88	0.79	0.78	0.76	0.61	0.50	0.21	0.11	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B. Irrigation Efficiency		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
C. Unit Diversion Requirement	(l/sec/ha)	0.00	0.00	0.00	0.60	1.04	1.30	0.83	2.10	2.07	1.76	1.58	1.57	1.52	1.22	0.99	0.42	0.22	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
D. Diversion Reruirement	(m3/sec)	0.0	0.0	0.0	3.4	5.9	7.3	4.7	11.8	11.7	9.9	8.9	8.8	8.5	6.9	5.6	2.4	1.2	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dry Season Paddy 3320ha																																						
A. Net Field Water Requirement	(l/sec/ha)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.39	0.61	0.70	0.97	1.06	1.04	0.87	0.87	0.73	0.50	0.58	0.45	0.24	0.10	0.00	0.00	0.00	0.00	0.00	0.00
B. Irrigation Efficiency		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
C. Unit Diversion Requirement	(l/sec/ha)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.77	1.22	1.40	1.93	2.11	2.09	1.74	1.74	1.46	1.00	1.16	0.90	0.48	0.21	0.00	0.00	0.00	0.00	0.00	0.00
D. Diversion Reruirement	(m3/sec)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	4.0	4.6	6.4	7.0	6.9	5.8	5.8	4.8	3.3	3.8	3.0	1.6	0.7	0.0	0.0	0.0	0.0	0.0	0.0
Polowijo 1410ha																																						
A. Net Field Water Requirement	(l/sec/ha)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B. Irrigation Efficiency		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
C. Unit Diversion Requirement	(l/sec/ha)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
D. Diversion Reruirement	(m3/sec)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Polowijo 3420ha																																						
A. Net Field Water Requirement	(l/sec/ha)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.13	0.20	0.12	0.05	0.30	0.24	0.21	0.13	0.10	0.02	0.00	0.00	0.00	0.00
B. Irrigation Efficiency		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
C. Unit Diversion Requirement	(l/sec/ha)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.26	0.40	0.24	0.11	0.59	0.48	0.41	0.26	0.19	0.03	0.00	0.00	0.00	0.00
D. Diversion Reruirement	(m3/sec)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.9	1.4	0.8	0.4	2.0	1.6	1.4	0.9	0.7	0.1	0.0	0.0	0.0	0.0
Polowijo 6030ha																																						
A. Net Field Water Requirement	(l/sec/ha)	0.33	0.26	0.13	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.08	0.16	0.19	0.29	0.39	0.38	0.39
B. Irrigation Efficiency		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
C. Unit Diversion Requirement	(l/sec/ha)	0.66	0.52	0.26	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.15	0.31	0.39	0.57	0.78	0.76	0.77
D. Diversion Reruirement	(m3/sec)	4.0	3.1	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.9	1.9	2.3	3.4	4.7	4.6	4.7
Fruit Tree 100ha																																						
A. Net Field Water Requirement	(l/sec/ha)	0.25	0.25	0.20	0.26	0.11	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.04	0.08	0.03	0.23	0.12	0.13	0.06	0.00	0.22	0.22	0.23	0.21	0.25	0.23	0.26	0.29	0.28	0.29
B. Irrigation Efficiency		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
C. Unit Diversion Requirement	(l/sec/ha)	0.49	0.50	0.40	0.51	0.22	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.07	0.15	0.06	0.45	0.24	0.26	0.12	0.00	0.45	0.43	0.47	0.42	0.50	0.46	0.52	0.59	0.57	0.58
D. Diversion Reruirement	(m3/sec)	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1
Sugarcane 2510ha																																						
A. Net Field Water Requirement	(l/sec/ha)	0.47	0.46	0.40	0.45	0.28	0.20	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.13	0.08	0.12	0.07	0.29	0.18	0.20	0.14	0.08	0.35	0.36	0.38	0.37	0.43	0.42	0.46	0.52	0.51	0.52
B. Irrigation Efficiency		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
C. Unit Diversion Requirement	(l/sec/ha)	0.93	0.92	0.79	0.90	0.56	0.40	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.27	0.16	0.25	0.15	0.58	0.37	0.40	0.27	0.17	0.71	0.71	0.77	0.73	0.86	0.83	0.91	1.04	1.02	1.05
D. Diversion Reruirement	(m3/sec)	2.3	2.3	2.0	2.3	1.4	1.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.7	0.4	0.6	0.4	1.5	0.9	1.0	0.7	0.4	1.8	1.8	1.9	1.8	2.2	2.1	2.3	2.6	2.6	2.6
Total Diversion Requirement	(m3/sec)	6.3	5.4	3.6	7.4	7.3	8.3	4.7	12.3	11.7	9.9	8.9	8.8	8.5	6.9	5.6	2.4	4.0	5.1	5.0	7.0	7.4	9.6	7.6	8.2	6.3	4.1	7.6	6.4	5.5	4.3	4.8	4.5	5.8	7.4	7.3	7.4

Future Water Requirement for Rainy Season Paddy 5630ha (Lodoagung) Case 2

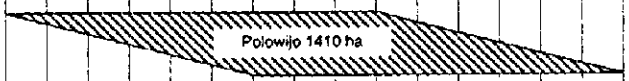


Items		October			November			December			January			February			March			April			May			June			July			August			September		
		E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L
A. Land Preparation Requirement																																						
1. Land Preparation Intensity					1/6	1/3	1/3	1/3	1/3	1/3	1/6																											
2. Land Preparation Requirement	(mm/day/area)	18.00	18.00	18.00	17.68	17.68	17.68	17.61	17.61	17.61	17.50	17.50	17.50	17.43	17.43	17.43	17.42	17.42	17.42	17.34	17.34	17.34	17.25	17.25	17.25	17.19	17.19	17.19	17.20	17.20	17.20	17.63	17.63	17.63	17.78	17.78	17.78			
	(mm/day)				2.95	5.89	5.89	5.87	5.87	5.87	2.92																											
3. Water Layer Replacement Intensity									1/6	1/6	1/6	1/3	1/3	1/3	1/6	1/6	1/6																					
4. Water Layer Replacement Requirement	(mm/day/area)								5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00																					
	(mm/day)								0.83	0.83	0.83	1.67	1.67	1.67	0.83	0.83	0.83																					
5. Total Requirement for Land Preparation	(mm/day)				2.95	5.89	5.89	5.87	6.70	6.70	3.75	1.67	1.67	1.67	0.83	0.83	0.83																					
B. Crop Water Requirement																																						
1. Crop Intensity							1/6	1/3	1/2	2/3	5/6	1	1	1	1	5/6	2/3	1/2	1/3	1/6																		
2. Crop Coefficient							1.10	1.10	1.10	1.07	1.05	1.05	0.98	0.32	0.00																							
(HYV)								1.10	1.10	1.10	1.07	1.05	1.05	0.98	0.32	0.00																						
									1.10	1.10	1.10	1.07	1.05	1.05	0.98	0.32	0.00																					
										1.10	1.10	1.10	1.07	1.05	1.05	0.98	0.32	0.00																				
											1.10	1.10	1.10	1.07	1.05	1.05	0.98	0.32	0.00																			
												1.10	1.10	1.10	1.07	1.05	1.05	0.98	0.32	0.00																		
Weighted average							1.10	1.10	1.10	1.09	1.08	1.08	1.06	0.93	0.75	0.63	0.59	0.43	0.16	0.00																		
3. Potential ET (ETo)	(mm/day/area)	4.79	4.79	4.79	4.48	4.48	4.48	4.22	4.22	4.22	4.09	4.09	4.09	4.14	4.14	4.14	4.05	4.05	4.05	4.02	4.02	4.02	3.90	3.90	3.90	3.55	3.55	3.55	3.72	3.72	3.72	4.23	4.23	4.23	4.61	4.61	4.61			
4. Consumptive Use (ETc)	(mm/day/area)						4.93	4.64	4.64	4.61	4.43	4.41	4.33	3.84	3.08	2.62	2.38	1.76	0.65	0.00																		
5. Percolation	(mm/day/area)						4.40	4.40	4.40	4.40	4.40	4.40	4.40	4.40	4.40	4.40	4.40	4.40	4.40																			
6. Crop Water Requirement	(mm/day/area)						9.33	9.04	9.04	9.01	8.83	8.81	8.73	8.24	7.49	7.22	6.78	6.16	5.05																			
	(mm/day)						1.55	3.01	4.52	6.01	7.36	8.81	8.73	8.24	7.48	6.01	4.52	3.08	1.68																			
C. Effective Rainfall	(mm/day)	0.45	0.47	0.85	0.35	1.39	1.85	5.29	2.15	3.75	3.49	3.64	3.62	3.36	3.03	2.55	3.55	2.14	1.39	1.76	1.45	1.82	0.23	0.96	0.87	1.20	1.74	0.01	0.14	0.02	0.17	0.13	0.27	0.07	0.00	0.06	0.07			
D. Net Field Water Requirement	(mm/day)	0.00	0.00	0.00	2.60	4.51	5.60	3.59	9.06	8.96	7.62	6.84	6.77	6.55	5.29	4.29	1.60	0.94	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
	(l/sec/ha)	0.00	0.00	0.00	0.30	0.52	0.65	0.42	1.05	1.04	0.88	0.79	0.78	0.76	0.61	0.50	0.21	0.11	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
E. Irrigation Efficiency		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50			
F. Unit Diversion Requirement	(l/sec/ha)	0.00	0.00	0.00	0.60	1.04	1.30	0.83	2.10	2.07	1.76	1.58	1.57	1.52	1.22	0.99	0.42	0.22	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
G. Diversion Requirement	(m3/sec)	0.0	0.0	0.0	3.4	5.9	7.3	4.7	11.8	11.7	9.9	8.9	8.8	8.5	6.9	5.6	2.4	1.2	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			

Future Water Requirement for Dry Season Paddy 3320ha (Lodoagung) Case 2

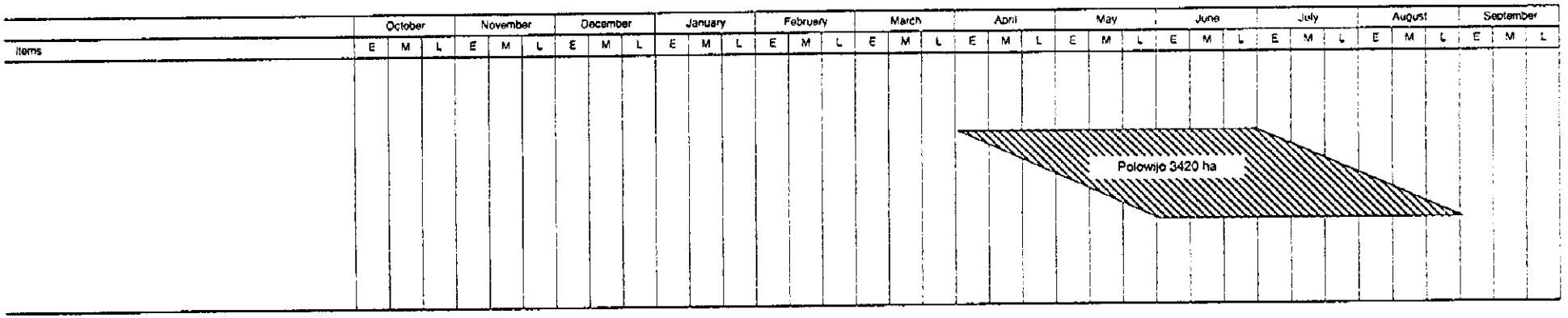
Items		October			November			December			January			February			March			April			May			June			July			August			September		
		E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L
A. Land Preparation Requirement																																					
1. Land Preparation Intensity																	1/6	1/3	1/3	1/3	1/3	1/3	1/6														
2. Land Preparation Requirement	(mm/day/area)	16.83	16.83	16.83	16.68	16.68	16.68	16.44	16.44	16.44	16.33	16.33	16.33	16.45	16.45	16.45	16.46	16.46	16.46	16.36	16.36	16.36	16.28	16.28	16.28	16.05	16.05	16.05	16.03	16.03	16.03	16.47	16.47	16.47	16.79	16.79	16.79
	(mm/day)																2.74	5.49	5.49	5.45	5.45	5.45	2.71														
3. Water Layer Replacement Intensity																					1/6	1/6	1/6	1/3	1/3	1/3	1/6	1/6	1/6								
4. Water Layer Replacement Requirement	(mm/day/area)																				5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00								
	(mm/day)																				0.83	0.83	0.83	1.67	1.67	1.67	0.83	0.83	0.83								
5. Total Requirement for Land Preparation	(mm/day)																2.74	5.49	5.49	5.45	6.29	6.29	3.55	1.67	1.67	1.67	0.83	0.83	0.83								
B. Crop Water Requirement																																					
1. Crop Intensity																			1/6	1/3	1/2	2/3	5/6	1	1	1	1	5/6	2/3	1/2	1/3	1/6					
2. Crop Coefficient																			1.10	1.10	1.10	1.07	1.05	1.05	0.98	0.32	0.00										
(HYV)																				1.10	1.10	1.10	1.07	1.05	1.05	0.98	0.32	0.00									
																					1.10	1.10	1.10	1.07	1.05	1.05	0.98	0.32	0.00								
																						1.10	1.10	1.07	1.05	1.05	0.98	0.32	0.00								
																							1.10	1.10	1.10	1.07	1.05	1.05	0.98	0.32	0.00						
																								1.10	1.10	1.10	1.07	1.05	1.05	0.98	0.32	0.00					
Weighted average																			1.10	1.10	1.10	1.09	1.08	1.06	1.06	0.93	0.75	0.68	0.59	0.43	0.16	0.00					
3. Potential ET (ETo)	(mm/day/area)	4.79	4.79	4.79	4.48	4.48	4.48	4.22	4.22	4.22	4.09	4.09	4.09	4.14	4.14	4.14	4.05	4.05	4.05	4.02	4.02	4.02	3.90	3.90	3.90	3.55	3.55	3.55	3.72	3.72	3.72	4.23	4.23	4.23	4.61	4.61	4.61
4. Consumptive Use (ETc)	(mm/day/area)																		4.46	4.42	4.42	4.39	4.23	4.21	4.13	3.30	2.64	2.41	2.19	1.61	0.60	0.00					
5. Percolation	(mm/day/area)																		2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60						
6. Crop Water Requirement	(mm/day/area)																		7.06	7.02	7.02	6.99	6.83	6.81	6.73	5.90	5.24	5.01	4.79	4.21	3.20						
	(mm/day)																		1.18	2.34	3.51	4.66	5.69	6.81	6.73	5.90	5.24	4.18	3.19	2.11	1.07						
C. Effective Rainfall	(mm/day)	0.45	0.47	0.85	0.35	1.39	1.85	5.29	2.15	3.75	3.49	3.64	3.62	3.36	3.03	2.55	3.55	2.14	1.39	1.76	1.45	1.82	0.23	0.96	0.87	1.26	1.74	0.01	0.14	0.02	0.17	0.13	0.27	0.07	0.00	0.06	0.02
D. Net Field Water Requirement	(mm/day)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.35	5.27	6.04	8.36	9.13	9.01	7.51	7.53	6.30	4.34	5.00	3.89	2.08	0.89	0.00	0.00	0.00	0.00	0.00	0.00
	(l/sec/ha)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.39	0.61	0.70	0.97	1.06	1.04	0.87	0.87	0.73	0.50	0.58	0.45	0.24	0.10	0.00	0.00	0.00	0.00	0.00	0.00
E. Irrigation Efficiency		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
F. Unit Diversion Requirement	(l/sec/ha)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.77	1.22	1.40	1.93	2.11	2.09	1.74	1.74	1.46	1.00	1.16	0.90	0.48	0.21	0.00	0.00	0.00	0.00	0.00	0.00
G. Diversion Requirement	(m3/sec)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	4.0	4.6	6.4	7.0	6.9	5.8	5.8	4.8	3.3	3.8	3.0	1.6	0.7	0.0	0.0	0.0	0.0	0.0	0.0

Future Water Requirement for Polowijo 1410ha (Lodoagung) Case 2



Items		October			November			December			January			February			March			April			May			June			July			August			September		
		E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L
A. Crop Water Requirement																																						
1. Crop Intensity								1/6	1/3	1/2	2/3	5/6	1	1	1	1	5/6	2/3	1/2	1/3	1/6																	
2. Crop Coefficient								0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73																	
3. Potential ET (ETo)	(mm/day/area)	4.79	4.79	4.79	4.48	4.48	4.48	4.22	4.22	4.22	4.09	4.09	4.09	4.14	4.14	4.14	4.05	4.05	4.05	4.02	4.02	4.02	3.90	3.90	3.90	3.55	3.55	3.55	3.72	3.72	3.72	4.23	4.23	4.23	4.61	4.61	4.61
4. Consumptive Use (ETc)	(mm/day/area)							3.08	3.08	3.08	2.99	2.99	2.99	3.02	3.02	3.02	2.96	2.96	2.96	2.93	2.93																	
7. Crop Water Requirement	(mm/day)							0.51	1.03	1.54	1.99	2.49	2.99	3.02	3.02	3.02	2.46	1.97	1.48	0.98	0.49																	
B. Effective Rain	(mm/day)	0.00	0.00	0.00	0.00	0.00	0.00	6.51	2.77	4.69	4.35	4.52	4.50	4.13	3.75	3.19	4.40	2.72	1.81	2.23	1.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C. Net Field Requirement	(mm/day)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	(l/sec/ha)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E. Irrigation Efficiency		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
F. Unit Diversion Requirement	(l/sec/ha)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G. Diversion Requirement	(m3/sec)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Future Water Requirement for Polowijo 3420ha (Lodoagung) Case 2



Items		October			November			December			January			February			March			April			May			June			July			August			September		
		E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L
A. Crop Water Requirement																																						
1. Crop Intensity																				1/6	1/3	1/2	2/3	5/6	1	1	1	1	5/6	2/3	1/2	1/3	1/6						
2. Crop Coefficient																				0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73						
3. Potential ET (ETo)	(mm/day/area)	4.79	4.79	4.79	4.48	4.48	4.48	4.22	4.22	4.22	4.09	4.09	4.09	4.14	4.14	4.14	4.00	4.05	4.05	4.02	4.02	4.02	3.90	3.90	3.90	3.55	3.55	3.55	3.72	3.72	3.72	4.23	4.23	4.23	4.61	4.61	4.61			
4. Consumptive Use (ETc)	(mm/day/area)																			2.93	2.93	2.93	2.85	2.85	2.85	2.59	2.59	2.59	2.72	2.72	2.72	3.09	3.09						
7. Crop Water Requirement	(mm/day)																			0.49	0.98	1.47	1.90	2.37	2.85	2.59	2.59	2.59	2.26	1.81	1.36	1.03	0.51						
B. Effective Rain	(mm/day)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.23	1.86	2.31	0.32	1.26	1.14	1.57	2.13	0.02	0.19	0.04	0.24	0.20	0.38	0.00	0.00	0.00	0.00			
C. Net Field Requirement	(mm/day)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.58	1.11	1.71	1.02	0.46	2.57	2.07	1.78	1.11	0.83	0.13	0.00	0.00	0.00	0.00			
	(l/sec/ha)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.13	0.20	0.12	0.05	0.30	0.24	0.21	0.13	0.10	0.02	0.00	0.00	0.00	0.00			
E. Irrigation Efficiency		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50			
F. Unit Diversion Requirement	(l/sec/ha)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.26	0.40	0.24	0.11	0.59	0.48	0.41	0.26	0.19	0.03	0.00	0.00	0.00	0.00			
G. Diversion Requirement	(m3/sec)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.9	1.4	0.8	0.4	2.0	1.6	1.4	0.9	0.7	0.1	0.0	0.0	0.0	0.0			

Future Water Requirement for Polowijo 6030ha (Lodoagung) Case 2

Items		October			November			December			January			February			March			April			May			June			July			August			September		
		E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L
A. Crop Water Requirement																																						
1. Crop Intensity		1	5/6	2/3	1/2	1/3	1/6																						1/6	1/3	1/2	2/3	5/6	1	1	1
2. Crop Coefficient		0.73	0.73	0.73	0.73	0.73	0.73																						0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73
3. Potential ET (ETo)	(mm/day/area)	4.79	4.79	4.79	4.48	4.48	4.48	4.22	4.22	4.22	4.09	4.09	4.09	4.14	4.14	4.14	4.05	4.05	4.05	4.02	4.02	4.02	3.90	3.90	3.90	3.55	3.55	3.55	3.72	3.72	3.72	4.23	4.23	4.23	4.61	4.61	4.61
4. Consumptive Use (ETc)	(mm/day/area)	3.50	3.50	3.50	3.27	3.27	3.27																							2.72	2.72	3.09	3.09	3.09	3.37	3.37	3.37
7. Crop Water Requirement	(mm/day)	3.50	2.91	2.33	1.64	1.09	0.55																							0.45	0.91	1.54	2.06	2.57	3.37	3.37	3.37
B. Effective Rain	(mm/day)	0.65	0.68	1.20	0.49	1.84	2.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.24	0.20	0.38	0.10	0.00	0.10	0.03
C. Net Field Requirement	(mm/day)	2.85	2.23	1.14	1.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.42	0.66	1.35	1.67	2.47	3.37	3.27	3.33
	(l/sec/ha)	0.33	0.26	0.13	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.08	0.16	0.19	0.29	0.39	0.38	0.39
E. Irrigation Efficiency		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
F. Unit Diversion Requirement	(l/sec/ha)	0.66	0.52	0.26	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.15	0.31	0.39	0.57	0.78	0.76	0.77
G. Diversion Requirement	(m3/sec)	4.0	3.1	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.9	1.9	2.3	3.4	4.7	4.6	4.7

Polowijo 6030 ha

Future Water Requirement for Fruit Tree 100ha (Lodoagung) Case 2

Items		October			November			December			January			February			March			April			May			June			July			August			September		
		E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L	E	M	L
A. Crop Water Requirement																																					
1. Crop intensity		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2. Crop Coefficient		0.57	0.58	0.60	0.00	0.60	0.60	0.62	0.63	0.65	0.65	0.65	0.65	0.63	0.62	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.58	0.57	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55
3. Potential ET (ETo)	(mm/day/area)	4.79	4.79	4.79	4.48	4.48	4.48	4.22	4.22	4.22	4.09	4.09	4.09	4.14	4.14	4.14	4.05	4.05	4.05	4.02	4.02	4.02	3.90	3.90	3.90	3.55	3.55	3.55	3.72	3.72	3.72	4.23	4.23	4.23	4.61	4.61	4.61
4. Consumptive Use (ETc)	(mm/day/area)	2.73	2.78	2.87	2.69	2.69	2.69	2.62	2.66	2.74	2.66	2.66	2.66	2.61	2.57	2.48	2.43	2.43	2.43	2.41	2.41	2.41	2.26	2.22	2.15	1.95	1.95	1.95	2.05	2.05	2.05	2.33	2.33	2.33	2.54	2.54	2.54
7. Crop Water Requirement	(mm/day)	2.73	2.78	2.87	2.69	2.69	2.69	2.62	2.66	2.74	2.66	2.66	2.66	2.61	2.57	2.48	2.43	2.43	2.43	2.41	2.41	2.41	2.26	2.22	2.15	1.95	1.95	1.95	2.05	2.05	2.05	2.33	2.33	2.33	2.54	2.54	2.54
B. Effective Rain	(mm/day)	0.60	0.64	1.13	0.46	1.74	2.28	6.19	2.64	4.53	4.19	4.36	4.24	3.95	3.56	3.00	4.14	2.56	1.70	2.10	1.75	2.17	0.30	1.17	1.04	1.44	1.95	0.02	0.18	0.03	0.22	0.18	0.35	0.09	0.00	0.09	0.03
C. Net Field Requirement	(mm/day)	2.13	2.14	1.75	2.22	0.95	0.41	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.73	0.31	0.66	0.24	1.96	1.05	1.10	0.52	0.00	1.93	1.87	2.01	1.82	2.14	1.97	2.23	2.54	2.45	2.51
	(l/sec/ha)	0.25	0.25	0.20	0.26	0.11	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.04	0.08	0.03	0.23	0.12	0.13	0.06	0.00	0.22	0.22	0.23	0.21	0.25	0.23	0.26	0.29	0.28	0.29
E. Irrigation Efficiency		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
F. Unit Diversion Requirement	(l/sec/ha)	0.49	0.50	0.40	0.51	0.22	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.07	0.15	0.06	0.45	0.24	0.26	0.12	0.00	0.45	0.43	0.47	0.42	0.50	0.46	0.52	0.59	0.57	0.58
G. Diversion Requirement	(m3/sec)	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1

Fruit tree 100 ha