YEAR 1

INFLOW TO RESERVOIR *** GYAT

MONTH		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RAINFALL	(MM)	6.1	0.0	3.1	3.1	314.9	605.3	745.9	675.6	394.3	232.3	39.7	6.1
DISCHARGE	(MCM)	0.0	0.0	0.0	0.0	3.622	17.250	30.344	32.090	18.731	11.035	1.888	0.290

TOTAL INFLOW TO RESERVOIR

MONTH		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
INFLOW	(MCM)	0.0	0.0	0.0	0.0	3.622	17.250	30.344	32.090	18.731	11.035	1.888	0.290

TOTAL INFLOW TO DIVERSION WORKS

MONTH		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
INFLOW	(MCM)	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 INFLOW FROM CATCHMENT AREA

MONTH		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
INFLOW	(MCM)	0.0	0.0	0.0	0.0	3.622	17.250	30.344	32.090	18.731	11.035	1.888	0.290

YEAR 2

INFLOW TO RESERVOIR FOR GYAI

MONTH		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RAINFALL	(MM)	6.5	0.0	3.2	3.2	334.1	642.3	791.5	716.9	418.5	240.5	42.2	6.5
DISCHARGE	(MCM)	0.0	0.0	0.0	0.0	4.192	18.305	33.594	34.052	19.876	11.710	2.003	0.308

TOTAL INFLOW TO RESERVOIR

MONTH		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
INFLOW	(MCM)	0.0	0.0	0.0	0.0	4.192	18.305	33.594	34.052	19.876	11.710	2.003	0.308

TOTAL INFLOW TO DIVERSION WORKS

MONTH		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
INFLOW	(MCM)	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 INFLOW FROM CATCHMENT AREA

MONTH		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
INFLOW	(MCM)	0.0	0.0	0.0	0.0	4.192	18.305	33.594	34.052	19.876	11.710	2.003	0.308

YEAR 3

INFLOW TO RESERVOIR FOR GYAI

MONTH		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RAINFALL	(MM)	5.9	0.0	3.0	3.0	305.8	587.8	724.4	650.1	383.0	225.6	38.6	5.9
DISCHARGE	(MCM)	0.0	0.0	0.0	0.0	3.354	16.754	28.815	31.166	18.192	10.718	1.833	0.282

TOTAL INFLOW TO RESERVOIR

MONTH		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
INFLOW	(MCM)	0.0	0.0	0.0	0.0	3.354	16.754	28.815	31.166	18.192	10.718	1.833	0.282

TOTAL INFLOW TO DIVERSION WORKS

MONTH		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
INFLOW	(MCM)	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 INFLOW FROM CATCHMENT AREA

MONTH		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
INFLOW	(MCM)	0.0	0.0	0.0	0.0	3.354	16.754	28.815	31.166	18.192	10.718	1.833	0.282

YEAR 4

INFLOW TO RESERVOIR *** GYAT

MONTH		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RAINFALL	(MM)	5.0	0.0	2.5	2.5	256.2	492.6	607.0	549.8	320.9	189.1	32.3	5.0
DISCHARGE	(MCM)	0.0	0.0	0.0	0.0	1.887	14.039	20.451	26.116	15.244	8.981	1.536	0.236

TOTAL INFLOW TO RESERVOIR

MONTH		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
INFLOW	(MCM)	0.0	0.0	0.0	0.0	1.887	14.039	20.451	26.116	15.244	8.981	1.536	0.236

TOTAL INFLOW TO DIVERSION WORKS

MONTH		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
INFLOW	(MCM)	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 INFLOW FROM CATCHMENT AREA

MONTH		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
INFLOW	(MCM)	0.0	0.0	0.0	0.0	1.887	14.039	20.451	26.116	15.244	8.981	1.536	0.236

YEAR 5

INFLOW TO RESERVOIR *** GYAT

MONTH		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RAINFALL	(MM)	5.5	0.0	3.2	3.2	333.0	640.1	788.8	714.5	417.0	245.7	42.0	6.5
DISCHARGE	(MCM)	0.0	0.0	0.0	0.0	4.158	18.243	33.403	33.937	19.809	11.670	1.996	0.307

TOTAL INFLOW TO RESERVOIR

MONTH		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
INFLOW	(MCM)	0.0	0.0	0.0	0.0	4.158	18.243	33.403	33.937	19.809	11.670	1.996	0.307

TOTAL INFLOW TO DIVERSION WORKS

MONTH		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
INFLOW	(MCM)	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 INFLOW FROM CATCHMENT AREA

MONTH		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
INFLOW	(MCM)	0.0	0.0	0.0	0.0	4.158	18.243	33.403	33.937	19.809	11.670	1.996	0.307

YEAR 6

INFLOW TO RESERVOIR *** GYAT

MONTH		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RAINFALL	(MM)	5.8	0.0	2.9	2.9	301.3	579.1	713.7	646.4	377.3	222.3	34.0	5.8
DISCHARGE	(MCM)	0.0	0.0	0.0	0.0	3.220	16.505	28.050	30.704	17.923	10.559	1.806	0.278

TOTAL INFLOW TO RESERVOIR

MONTH		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
INFLOW	(MCM)	0.0	0.0	0.0	0.0	3.220	16.505	28.050	30.704	17.923	10.559	1.806	0.278

TOTAL INFLOW TO DIVERSION WORKS

MONTH		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
INFLOW	(MCM)	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 INFLOW FROM CATCHMENT AREA

MONTH		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
INFLOW	(MCM)	0.0	0.0	0.0	0.0	3.220	16.505	28.050	30.704	17.923	10.559	1.806	0.278

YEAR 7

INFLOW TO RESERVOIR ***.GYAI

MONTH		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RAINFALL	(MM)	5.8	0.0	2.9	2.9	391.3	579.1	763.7	646.4	377.3	222.3	38.0	5.8
DISCHARGE	(MCM)	0.0	0.0	0.0	0.0	3.220	16.505	28.050	30.704	17.923	10.559	1.806	0.278

TOTAL INFLOW TO RESERVOIR

MONTH		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
INFLOW	(MCM)	0.0	0.0	0.0	0.0	3.220	16.505	28.050	30.704	17.923	10.559	1.806	0.278

TOTAL INFLOW TO DIVERSION WORKS

MONTH		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
INFLOW	(MCM)	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 INFLOW FROM CATCHMENT AREA

MONTH		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
INFLOW	(MCM)	0.0	0.0	0.0	0.0	3.220	16.505	28.050	30.704	17.923	10.559	1.806	0.278

YEAR 9

INFLOW TO RESERVOIR *** GYAI

MONTH		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RAINFALL	(MM)	5.4	0.0	2.7	2.7	280.0	538.3	663.4	600.8	350.7	206.6	35.3	5.4
DISCHARGE	(MCM)	0.0	0.0	0.0	0.0	2.591	15.342	24.466	28.540	16.659	9.815	1.679	0.258

TOTAL INFLOW TO RESERVOIR

MONTH		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
INFLOW	(MCM)	0.0	0.0	0.0	0.0	2.591	15.342	24.466	28.540	16.659	9.815	1.679	0.258

TOTAL INFLOW TO DIVERSION WORKS

MONTH		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
INFLOW	(MCM)	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 INFLOW FROM CATCHMENT AREA

MONTH		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
INFLOW	(MCM)	0.0	0.0	0.0	0.0	2.591	15.342	24.466	28.540	16.659	9.815	1.679	0.258

YEAR 3

INFLOW TO RESERVOIR *** GYAT

MONTH		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RAINFALL	(MM)	5.1	0.0	2.6	2.6	264.7	508.9	627.2	568.0	331.6	195.3	33.4	5.1
DISCHARGE	(MCM)	0.0	0.0	0.0	0.0	2.138	14.504	21.885	26.982	15.750	9.279	1.587	0.244

TOTAL INFLOW TO RESERVOIR.

MONTH		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
INFLOW	(MCM)	0.0	0.0	0.0	0.0	2.138	14.504	21.885	26.982	15.750	9.279	1.587	0.244

TOTAL INFLOW TO DIVERSION WORKS

MONTH		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
INFLOW	(MCM)	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 INFLOW FROM CATCHMENT AREA

MONTH		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
INFLOW	(MCM)	0.0	0.0	0.0	0.0	2.138	14.504	21.885	26.982	15.750	9.279	1.587	0.244

YEAR 10

INFLOW TO RESERVOIR *** GYAT

MONTH		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RAINFALL	(MM)	5.1	0.0	2.6	2.6	262.8	505.1	622.5	563.8	329.1	193.9	33.2	5.1
DISCHARGE	(MCM)	0.0	0.0	0.0	0.0	2.079	14.396	21.550	26.780	15.632	9.209	1.575	0.242

TOTAL INFLOW TO RESERVOIR

MONTH		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
INFLOW	(MCM)	0.0	0.0	0.0	0.0	2.079	14.396	21.550	26.780	15.632	9.209	1.575	0.242

TOTAL INFLOW TO DIVERSION WORKS

MONTH		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
INFLOW	(MCM)	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 INFLOW FROM CATCHMENT AREA

MONTH		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
INFLOW	(MCM)	0.0	0.0	0.0	0.0	2.079	14.396	21.550	26.780	15.632	9.209	1.575	0.242

YEAR 11

INFLOW TO RESERVOIR *** GYAT

MONTH		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RAINFALL	(MM)	5.9	0.0	2.9	2.9	302.7	591.9	717.0	649.4	379.1	223.3	38.2	5.9
DISCHARGE	(MCM)	0.0	0.0	0.0	0.0	3.261	16.583	28.289	30.849	18.007	10.609	1.815	0.279

TOTAL INFLOW TO RESERVOIR

MONTH		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
INFLOW	(MCM)	0.0	0.0	0.0	0.0	3.261	16.583	28.289	30.849	18.007	10.609	1.815	0.279

TOTAL INFLOW TO DIVERSION WORKS

MONTH		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
INFLOW	(MCM)	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 INFLOW FROM CATCHMENT AREA

MONTH		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
INFLOW	(MCM)	0.0	0.0	0.0	0.0	3.261	16.583	28.289	30.849	18.007	10.609	1.815	0.279

YEAR 12

INFLOW TO RESERVOIR *** GYAT

MONTH		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RAINFALL	(MM)	5.4	0.0	2.7	2.7	276.9	532.3	696.0	594.2	346.8	204.3	35.0	5.4
DISCHARGE	(MCM)	0.0	0.0	0.0	0.0	2.499	15.171	23.940	28.223	16.474	9.706	1.660	0.255

TOTAL INFLOW TO RESERVOIR

MONTH		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
INFLOW	(MCM)	0.0	0.0	0.0	0.0	2.499	15.171	23.940	28.223	16.474	9.706	1.660	0.255

TOTAL INFLOW TO DIVERSION WORKS

MONTH		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
INFLOW	(MCM)	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 INFLOW FROM CATCHMENT AREA

MONTH		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
INFLOW	(MCM)	0.0	0.0	0.0	0.0	2.499	15.171	23.940	28.223	16.474	9.706	1.660	0.255

YEAR 13

INFLOW TO RESERVOIR *** GYAT

MONTH		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RAINFALL	(MM)	5.4	0.0	2.7	2.7	260.3	538.9	664.0	601.5	351.1	206.8	35.4	5.4
DISCHARGE	(MCM)	0.0	0.0	0.0	0.0	2.599	15.357	24.513	28.569	16.676	9.825	1.681	0.259

TOTAL INFLOW TO RESERVOIR

MONTH		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
INFLOW	(MCM)	0.0	0.0	0.0	0.0	2.599	15.357	24.513	28.569	16.676	9.825	1.681	0.259

TOTAL INFLOW TO DIVERSION WORKS

MONTH		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
INFLOW	(MCM)	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 INFLOW FROM CATCHMENT AREA

MONTH		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
INFLOW	(MCM)	0.0	0.0	0.0	0.0	2.599	15.357	24.513	28.569	16.676	9.825	1.681	0.259

YEAR 14

INFLOW TO RESERVOIR *** GYAT

MONTH		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RAINFALL	(MM)	5.4	0.0	2.7	2.7	270.6	531.8	655.3	593.6	346.5	204.1	34.9	5.4
DISCHARGE	(MCM)	0.0	0.0	0.0	0.0	2.490	15.156	23.892	28.194	16.457	9.696	1.658	0.255

TOTAL INFLOW TO RESERVOIR

MONTH		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
INFLOW	(MCM)	0.0	0.0	0.0	0.0	2.490	15.156	23.892	28.194	16.457	9.696	1.658	0.255

TOTAL INFLOW TO DIVERSION WORKS

MONTH		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
INFLOW	(MCM)	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 INFLOW FROM CATCHMENT AREA

MONTH		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
INFLOW	(MCM)	0.0	0.0	0.0	0.0	2.490	15.156	23.892	28.194	16.457	9.696	1.658	0.255

YEAR 15

INFLOW TO RESERVOIR *** GYA1

MONTH		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
RAINFALL	(MM)	4.9	0.0	2.5	2.5	253.7	487.7	631.0	544.3	317.7	107.2	32.0	4.9
DISCHARGE	(MCM)	0.0	0.0	0.0	0.0	1.811	13.899	20.021	25.856	15.093	3.892	1.521	0.234

TOTAL INFLOW TO RESERVOIR

MONTH		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
INFLOW	(MCM)	0.0	0.0	0.0	0.0	1.811	13.899	20.021	25.856	15.093	3.892	1.521	0.234

TOTAL INFLOW TO DIVERSION WORKS

MONTH		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
INFLOW	(MCM)	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 INFLOW FROM CATCHMENT AREA

MONTH		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
INFLOW	(MCM)	0.0	0.0	0.0	0.0	1.811	13.899	20.021	25.856	15.093	3.892	1.521	0.234

YEAR 1

FIELD WATER REQUIREMENT OF PADDY (WET) P+P

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ET CROP (MM)	0.0	0.0	0.0	0.0	109.7	191.1	145.8	141.0	96.6	14.9	0.0	0.0
E RAINFALL (MM)	0.0	0.0	0.0	0.0	104.4	188.8	142.1	139.4	95.4	14.7	0.0	0.0
F.W.R. (MM)	0.0	0.0	0.0	0.0	1.3	2.3	1.7	1.7	1.2	0.2	0.0	0.0
W.R.Q. (MCM)	0.0	0.0	0.0	0.0	0.045	0.082	0.062	0.060	0.041	0.006	0.0	0.0

FIELD WATER REQUIREMENT OF PADDY(WET) P+GC

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ET CROP (MM)	0.0	0.0	0.0	0.0	117.5	205.2	175.9	190.0	126.0	18.6	0.0	0.0
E RAINFALL (MM)	0.0	0.0	0.0	0.0	116.1	202.7	171.3	187.7	124.5	18.4	0.0	0.0
F.W.R. (MM)	0.0	0.0	0.0	0.0	1.4	2.5	2.1	2.3	1.5	0.2	0.0	0.0
W.R.Q. (MCM)	0.0	0.0	0.0	0.0	0.493	0.791	0.671	0.733	0.486	0.072	0.0	0.0

FIELD WATER REQUIREMENT OF PADDY (DRY) P+P

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ET CROP (MM)	127.4	154.0	142.3	27.9	0.0	0.0	0.0	0.0	0.0	0.0	86.7	159.6
E RAINFALL (MM)	4.8	0.0	2.4	1.9	0.0	0.0	0.0	0.0	0.0	0.0	28.4	5.0
F.W.R. (MM)	122.6	154.0	139.9	26.0	0.0	0.0	0.0	0.0	0.0	0.0	58.3	154.6
W.R.Q. (MCM)	4.378	5.500	4.995	0.927	0.0	0.0	0.0	0.0	0.0	0.0	2.083	5.523

FIELD WATER REQUIREMENT OF GROUNDNUTS P+GC

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ET CROP (MM)	73.8	67.2	35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.3	46.2
E RAINFALL (MM)	4.3	0.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.2	3.9
F.W.R. (MM)	69.5	67.2	33.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	42.3
W.R.Q. (MCM)	7.958	7.700	3.792	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.124	4.850

FIELD WATER REQUIREMENT OF BEANS (DRY) P+GC

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ET CROP (MM)	91.5	61.0	19.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.3	46.2
E RAINFALL (MM)	4.3	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.2	3.9
F.W.R. (MM)	77.2	61.0	17.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	42.3
W.R.Q. (MCM)	8.844	6.994	2.032	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.124	4.850

TOTAL FIELD WATER REQUIREMENT

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
DEMAND (MCM)	21.180	20.194	10.820	0.927	0.498	0.873	0.732	0.793	0.527	0.078	2.330	15.222

IRRIGATED FROM DIVERSION WORKS

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
SUPPLEMENT (MCM)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DEFICIENCY (MCM)	21.180	20.194	10.820	0.927	0.498	0.873	0.732	0.793	0.527	0.078	2.330	15.222

YEAR 2

FIELD WATER REQUIREMENT OF PADDY (WET) P+P

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ET CROP (MM)	0.0	0.0	0.0	0.0	105.7	191.1	143.8	141.0	96.6	14.9	0.0	0.0
E RAINFALL (MM)	0.0	0.0	0.0	0.0	104.4	186.8	142.1	139.4	95.4	14.7	0.0	0.0
F.W.R. (MM)	0.0	0.0	0.0	0.0	1.3	2.3	1.7	1.7	1.2	0.2	0.0	0.0
W.R.Q. (MCM)	0.0	0.0	0.0	0.0	0.049	0.082	0.062	0.060	0.041	0.006	0.0	0.0

FIELD WATER REQUIREMENT OF PADDY(WET) P+GC

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ET CROP (MM)	0.0	0.0	0.0	0.0	117.5	205.2	173.9	190.0	126.0	18.6	0.0	0.0
E RAINFALL (MM)	0.0	0.0	0.0	0.0	116.1	202.7	171.8	187.7	124.5	18.4	0.0	0.0
F.W.R. (MM)	0.0	0.0	0.0	0.0	1.4	2.5	2.1	2.3	1.5	0.2	0.0	0.0
W.R.Q. (MCM)	0.0	0.0	0.0	0.0	0.453	0.791	0.671	0.733	0.486	0.072	0.0	0.0

FIELD WATER REQUIREMENT OF PADDY (DRY) P+P

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ET CROP (MM)	127.4	154.0	142.3	27.9	0.0	0.0	0.0	0.0	0.0	0.0	86.7	159.6
E RAINFALL (MM)	5.1	0.0	2.6	2.1	0.0	0.0	0.0	0.0	0.0	0.0	29.7	5.3
F.W.R. (MM)	122.3	154.0	139.7	25.8	0.0	0.0	0.0	0.0	0.0	0.0	57.0	154.3
W.R.Q. (MCM)	4.367	5.500	4.989	0.923	0.0	0.0	0.0	0.0	0.0	0.0	2.035	5.512

FIELD WATER REQUIREMENT OF GROUNDNUTS P+GC

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ET CROP (MM)	73.9	67.2	33.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.3	46.2
E RAINFALL (MM)	4.8	0.0	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.4	4.1
F.W.R. (MM)	69.2	67.2	33.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	42.1
W.R.Q. (MCM)	1.928	1.700	3.777	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.102	4.823

FIELD WATER REQUIREMENT OF BEANS (DRY) P+GC

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ET CROP (MM)	81.5	61.0	19.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.3	46.2
E RAINFALL (MM)	4.6	0.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.4	4.1
F.W.R. (MM)	76.9	61.0	17.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	42.1
W.R.Q. (MCM)	2.813	6.774	2.022	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.102	4.823

TOTAL FIELD WATER REQUIREMENT

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
DEMAND (MCM)	21.108	20.194	10.791	0.923	0.498	0.873	0.732	0.793	0.527	0.078	2.240	15.157

IRRIGATED FROM DIVERSION WORKS

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
SUPPLEMENT (MCM)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DEFICIENCY (MCM)	21.108	20.194	10.791	0.923	0.498	0.873	0.732	0.793	0.527	0.078	2.240	15.157

YEAR 3

FIELD WATER REQUIREMENT OF PADDY (WET) P+P

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ET CROP (MM)	0.0	0.0	0.0	0.0	105.7	191.1	143.8	141.0	96.6	14.9	0.0	0.0
E RAINFALL (MM)	0.0	0.0	0.0	0.0	104.4	188.8	142.1	139.4	95.4	14.7	0.0	0.0
F.W.R. (MM)	0.0	0.0	0.0	0.0	1.3	2.3	1.7	1.7	1.2	0.2	0.0	0.0
W.R.Q. (MCM)	0.0	0.0	0.0	0.0	0.045	0.082	0.062	0.060	0.041	0.006	0.0	0.0

FIELD WATER REQUIREMENT OF PADDY(WET) P+GC

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ET CROP (MM)	0.0	0.0	0.0	0.0	117.5	205.2	173.9	190.0	126.0	18.6	0.0	0.0
E RAINFALL (MM)	0.0	0.0	0.0	0.0	116.1	202.7	171.8	187.7	124.5	18.4	0.0	0.0
F.W.R. (MM)	0.0	0.0	0.0	0.0	1.4	2.5	2.1	2.3	1.5	0.2	0.0	0.0
W.R.Q. (MCM)	0.0	0.0	0.0	0.0	0.453	0.791	0.671	0.733	0.486	0.072	0.0	0.0

FIELD WATER REQUIREMENT OF PADDY (DRY) P+P

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ET CROP (MM)	127.4	154.0	142.3	27.9	0.0	0.0	0.0	0.0	0.0	0.0	86.7	159.6
E RAINFALL (MM)	4.7	0.0	2.3	1.9	0.0	0.0	0.0	0.0	0.0	0.0	59.0	154.8
F.W.R. (MM)	122.7	154.0	139.9	26.0	0.0	0.0	0.0	0.0	0.0	0.0	2.106	5.528
W.R.Q. (MCM)	4.383	5.500	4.998	0.929	0.0	0.0	0.0	0.0	0.0	0.0	2.106	5.528

FIELD WATER REQUIREMENT OF GROUNDNUTS P+GC

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ET CROP (MM)	73.8	67.2	35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.3	46.2
E RAINFALL (MM)	4.2	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.1	3.8
F.W.R. (MM)	69.6	67.2	33.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	42.4
W.R.Q. (MCM)	1.973	1.700	3.799	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.134	4.862

FIELD WATER REQUIREMENT OF BEANS (DRY) P+GC

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ET CROP (MM)	81.5	61.0	19.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.3	46.2
E RAINFALL (MM)	4.2	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.1	3.8
F.W.R. (MM)	77.3	61.0	17.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	42.4
W.R.Q. (MCM)	8.458	6.994	2.037	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.134	4.862

TOTAL FIELD WATER REQUIREMENT

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
DEMAND (MCM)	21.213	20.194	10.834	0.929	0.498	0.873	0.732	0.793	0.527	0.078	2.373	15.252

IRRIGATED FROM DIVERSION WORKS

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
SUPPLEMENT (MCM)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DEFICIENCY (MCM)	21.213	20.194	10.834	0.929	0.498	0.873	0.732	0.793	0.527	0.078	2.373	15.252

YEAR 4

FIELD WATER REQUIREMENT OF PADDY (WET) P+P

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ET CROP (MM)	0.0	0.0	0.0	0.0	105.7	191.1	143.8	141.0	96.6	14.9	0.0	0.0
E RAINFALL (MM)	0.0	0.0	0.0	0.0	104.4	188.8	142.1	139.4	95.4	14.7	0.0	0.0
F.W.R. (MM)	0.0	0.0	0.0	0.0	1.3	2.3	1.7	1.7	1.2	0.2	0.0	0.0
W.R.Q. (MCM)	0.0	0.0	0.0	0.0	0.045	0.082	0.062	0.060	0.041	0.006	0.0	0.0

FIELD WATER REQUIREMENT OF PADDY(WET) P+GC

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ET CROP (MM)	0.0	0.0	0.0	0.0	117.5	205.2	173.9	190.0	126.0	18.6	0.0	0.0
E RAINFALL (MM)	0.0	0.0	0.0	0.0	116.1	202.7	171.8	187.7	124.5	18.4	0.0	0.0
F.W.R. (MM)	0.0	0.0	0.0	0.0	1.4	2.5	2.1	2.3	1.5	0.2	0.0	0.0
W.R.Q. (MCM)	0.0	0.0	0.0	0.0	0.453	0.791	0.671	0.733	0.486	0.072	0.0	0.0

FIELD WATER REQUIREMENT OF PADDY (DRY) P+P

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ET CROP (MM)	127.4	194.0	142.3	27.9	0.0	0.0	0.0	0.0	0.0	0.0	86.7	159.6
E RAINFALL (MM)	3.9	0.0	2.3	1.6	0.0	0.0	0.0	0.0	0.0	0.0	23.5	4.1
F.W.R. (MM)	123.5	194.0	140.3	26.3	0.0	0.0	0.0	0.0	0.0	0.0	63.2	155.6
W.R.Q. (MCM)	4.410	5.500	5.012	0.940	0.0	0.0	0.0	0.0	0.0	0.0	2.258	5.556

FIELD WATER REQUIREMENT OF GROUNDNUTS P+GC

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ET CROP (MM)	73.8	67.2	35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.3	46.2
E RAINFALL (MM)	3.5	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.9	3.1
F.W.R. (MM)	70.3	67.2	33.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	43.0
W.R.Q. (MCM)	8.051	7.700	3.834	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.507	4.932

FIELD WATER REQUIREMENT OF BEANS (DRY) P+GC

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ET CROP (MM)	81.5	81.0	19.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.3	46.2
E RAINFALL (MM)	3.5	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.9	3.1
F.W.R. (MM)	78.0	81.0	18.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	43.0
W.R.Q. (MCM)	8.934	9.234	2.064	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.507	4.932

TOTAL FIELD WATER REQUIREMENT

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
DEMAND (MCM)	21.397	20.194	10.939	0.940	0.498	0.873	0.732	0.793	0.527	0.078	3.272	15.420

IRRIGATED FROM DIVERSION WORKS

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
SUPPLEMENT (MCM)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DEFICIENCY (MCM)	21.397	20.194	10.939	0.940	0.498	0.873	0.732	0.793	0.527	0.078	3.272	15.420

YEAR 5

FIELD WATER REQUIREMENT OF PADDY (WET) P+P

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ET CROP (MM)	0.0	0.0	0.0	0.0	105.7	191.1	143.8	141.0	96.8	14.9	0.0	0.0
E RAINFALL (MM)	0.0	0.0	0.0	0.0	104.4	188.8	142.1	139.4	95.4	14.7	0.0	0.0
F.W.R. (MM)	0.0	0.0	0.0	0.0	1.3	2.3	1.7	1.7	1.2	0.2	0.0	0.0
W.R.Q. (MCM)	0.0	0.0	0.0	0.0	0.145	0.082	0.062	0.060	0.041	0.006	0.0	0.0

FIELD WATER REQUIREMENT OF PADDY(WET) P+GC

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ET CROP (MM)	0.0	0.0	0.0	0.0	117.5	205.2	173.9	190.0	126.0	18.6	0.0	0.0
E RAINFALL (MM)	0.0	0.0	0.0	0.0	116.1	202.7	171.8	187.7	124.5	18.4	0.0	0.0
F.W.R. (MM)	0.0	0.0	0.0	0.0	1.4	2.5	2.1	2.3	1.5	0.2	0.0	0.0
W.R.Q. (MCM)	0.0	0.0	0.0	0.0	0.453	0.791	0.671	0.733	0.486	0.072	0.0	0.0

FIELD WATER REQUIREMENT OF PADDY (DRY) P+P

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ET CROP (MM)	127.4	154.0	142.3	27.9	0.0	0.0	0.0	0.0	0.0	0.0	86.7	159.6
E RAINFALL (MM)	5.1	0.0	2.6	2.0	0.0	0.0	0.0	0.0	0.0	0.0	29.6	5.3
F.W.R. (MM)	122.3	154.0	139.7	25.9	0.0	0.0	0.0	0.0	0.0	0.0	57.1	154.3
W.R.Q. (MCM)	4.368	5.500	4.991	0.923	0.0	0.0	0.0	0.0	0.0	0.0	2.038	5.512

FIELD WATER REQUIREMENT OF GROUNDNUTS P+GC

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ET CROP (MM)	73.8	67.2	35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.3	46.2
E RAINFALL (MM)	4.6	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.4	4.1
F.W.R. (MM)	69.2	67.2	33.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	42.1
W.R.Q. (MCM)	1.930	1.700	0.780	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.104	4.824

FIELD WATER REQUIREMENT OF BEANS (DRY) P+GC

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ET CROP (MM)	81.5	61.0	19.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.3	46.2
E RAINFALL (MM)	4.6	0.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.4	4.1
F.W.R. (MM)	76.9	61.0	17.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	42.1
W.R.Q. (MCM)	0.815	0.994	2.022	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.104	4.824

TOTAL FIELD WATER REQUIREMENT

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
DEMAND (MCM)	21.113	20.194	10.792	0.923	0.498	0.873	0.732	0.793	0.527	0.078	2.245	15.161

IRRIGATED FROM DIVERSION WORKS

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
SUPPLEMENT (MCM)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DEFICIENCY (MCM)	21.113	20.194	10.792	0.923	0.498	0.873	0.732	0.793	0.527	0.078	2.245	15.161

YEAR 6

FIELD WATER REQUIREMENT OF PADDY (WET) P+P

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ET CROP (MM)	0.0	0.0	0.0	0.0	103.7	191.1	143.8	141.0	96.6	14.9	0.0	0.0
E RAINFALL (MM)	0.0	0.0	0.0	0.0	100.4	188.8	142.1	139.4	95.4	14.7	0.0	0.0
F.W.R. (MM)	0.0	0.0	0.0	0.0	1.3	2.3	1.7	1.7	1.2	0.2	0.0	0.0
W.R.Q. (MCM)	0.0	0.0	0.0	0.0	0.045	0.082	0.062	0.060	0.041	0.006	0.0	0.0

FIELD WATER REQUIREMENT OF PADDY(WET) P+GC

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ET CROP (MM)	0.0	0.0	0.0	0.0	117.5	235.2	173.9	190.0	126.0	18.6	0.0	0.0
E RAINFALL (MM)	0.0	0.0	0.0	0.0	116.1	202.7	171.8	187.7	124.5	18.4	0.0	0.0
F.W.R. (MM)	0.0	0.0	0.0	0.0	1.4	2.5	2.1	2.3	1.5	0.2	0.0	0.0
W.R.Q. (MCM)	0.0	0.0	0.0	0.0	0.453	0.791	0.671	0.733	0.486	0.072	0.0	0.0

FIELD WATER REQUIREMENT OF PADDY (DRY) P+P

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ET CROP (MM)	127.4	154.0	142.3	27.9	0.0	0.0	0.0	0.0	0.0	0.0	86.7	159.6
E RAINFALL (MM)	4.6	0.0	2.3	1.8	0.0	0.0	0.0	0.0	0.0	0.0	27.4	4.8
F.W.R. (MM)	122.8	154.0	140.0	26.1	0.0	0.0	0.0	0.0	0.0	0.0	59.3	154.8
W.R.Q. (MCM)	4.385	5.500	4.999	0.930	0.0	0.0	0.0	0.0	0.0	0.0	2.117	5.530

FIELD WATER REQUIREMENT OF GROUNDNUTS P+GC

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ET CROP (MM)	73.8	67.2	35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.3	46.2
E RAINFALL (MM)	4.1	0.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.1	3.7
F.W.R. (MM)	69.6	67.2	33.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	42.5
W.R.Q. (MCM)	1.980	1.700	3.802	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.139	4.869

FIELD WATER REQUIREMENT OF BEANS (DRY) P+GC

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ET CROP (MM)	81.5	51.0	19.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.3	46.2
E RAINFALL (MM)	4.2	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.1	3.7
F.W.R. (MM)	77.4	61.0	17.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	42.5
W.R.Q. (MCM)	8.865	6.994	2.037	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.139	4.869

TOTAL FIELD WATER REQUIREMENT

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
DEMAND (MCM)	21.230	20.194	10.841	0.930	0.498	0.873	0.732	0.793	0.527	0.078	2.395	15.268

IRRIGATED FROM DIVERSION WORKS

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
SUPPLEMENT (MCM)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DEFICIENCY (MCM)	21.230	20.194	10.841	0.930	0.498	0.873	0.732	0.793	0.527	0.078	2.395	15.268

YEAR 7

FIELD WATER REQUIREMENT OF PADDY (WET) P+P

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ET CROP (MM)	0.0	0.0	0.0	0.0	105.7	191.1	143.8	141.0	96.6	14.9	0.0	0.0
E RAINFALL (MM)	0.0	0.0	0.0	0.0	104.4	188.8	142.1	139.4	95.4	14.7	0.0	0.0
F.W.R. (MM)	0.0	0.0	0.0	0.0	1.3	2.3	1.7	1.7	1.2	0.2	0.0	0.0
W.R.Q. (MCM)	0.0	0.0	0.0	0.0	0.045	0.082	0.062	0.060	0.041	0.006	0.0	0.0

FIELD WATER REQUIREMENT OF PADDY(WET) P+GC

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ET CROP (MM)	0.0	0.0	0.0	0.0	117.5	235.2	173.9	190.0	126.0	18.6	0.0	0.0
E RAINFALL (MM)	0.0	0.0	0.0	0.0	116.1	232.7	171.8	187.7	124.5	18.4	0.0	0.0
F.W.R. (MM)	0.0	0.0	0.0	0.0	1.4	2.5	2.1	2.3	1.5	0.2	0.0	0.0
W.R.Q. (MCM)	0.0	0.0	0.0	0.0	0.453	0.791	0.671	0.733	0.486	0.072	0.0	0.0

FIELD WATER REQUIREMENT OF PADDY (DRY) P+P

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ET CROP (MM)	127.4	194.0	142.3	27.9	0.0	0.0	0.0	0.0	0.0	0.0	86.7	139.6
E RAINFALL (MM)	4.6	0.0	2.3	1.8	0.0	0.0	0.0	0.0	0.0	0.0	27.4	4.8
F.W.R. (MM)	122.8	194.0	140.0	26.1	0.0	0.0	0.0	0.0	0.0	0.0	59.3	134.8
W.R.Q. (MCM)	4.385	5.500	4.997	0.930	0.0	0.0	0.0	0.0	0.0	0.0	2.117	5.530

FIELD WATER REQUIRLMENT OF GROUNDNUTS P+GC

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ET CROP (MM)	73.8	67.2	35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.3	46.2
E RAINFALL (MM)	4.1	0.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.1	3.7
F.W.R. (MM)	69.6	67.2	33.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	42.5
W.R.Q. (MCM)	7.990	7.700	3.802	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.139	4.869

FIELD WATER REQUIREMENT OF BEANS (DRY) P+GC

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ET CROP (MM)	81.5	61.0	19.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.3	46.2
E RAINFALL (MM)	4.2	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.1	3.7
F.W.R. (MM)	77.4	61.0	17.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	42.5
W.R.Q. (MCM)	8.865	6.994	2.039	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.139	4.869

TOTAL FIELD WATER REQUIREMENT

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
DEMAND (MCM)	21.230	20.194	10.841	0.930	0.498	0.873	0.732	0.793	0.527	0.078	2.395	15.268

IRRIGATED FROM DIVERSION WORKS

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
SUPPLEMENT (MCM)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DEFICIENCY (MCM)	21.230	20.194	10.841	0.930	0.498	0.873	0.732	0.793	0.527	0.078	2.395	15.268

YEAR. 2

FIELD WATER REQUIREMENT OF PADDY (WET) P+P

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ET CROP (MM)	0.0	0.0	0.0	0.0	105.7	191.1	143.8	141.0	96.6	14.9	0.0	0.0
E RAINFALL (MM)	0.0	0.0	0.0	0.0	104.4	188.8	142.1	139.4	95.4	14.7	0.0	0.0
F.W.R. (MM)	0.0	0.0	0.0	0.0	1.3	2.3	1.7	1.7	1.2	0.2	0.0	0.0
W.R.Q. (MCM)	0.0	0.0	0.0	0.0	0.045	0.082	0.062	0.060	0.041	0.006	0.0	0.0

FIELD WATER REQUIREMENT OF PADDY(NET) P+GC

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ET CROP (MM)	0.0	0.0	0.0	0.0	117.5	205.2	173.9	190.0	126.0	18.6	0.0	0.0
E RAINFALL (MM)	0.0	0.0	0.0	0.0	116.1	202.7	171.8	187.7	124.5	18.4	0.0	0.0
F.W.R. (MM)	0.0	0.0	0.0	0.0	1.4	2.5	2.1	2.3	1.5	0.2	0.0	0.0
W.R.Q. (MCM)	0.0	0.0	0.0	0.0	0.453	0.791	0.671	0.733	0.486	0.072	0.0	0.0

FIELD WATER REQUIREMENT OF PADDY (DRY) P+P

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ET CROP (MM)	127.4	154.0	142.3	27.9	0.0	0.0	0.0	0.0	0.0	0.0	86.7	159.6
E RAINFALL (MM)	4.3	0.0	2.1	1.7	0.0	0.0	0.0	0.0	0.0	0.0	25.6	4.5
F.W.R. (MM)	123.1	154.0	140.1	26.2	0.0	0.0	0.0	0.0	0.0	0.0	61.1	155.2
W.R.Q. (MCM)	4.397	5.500	5.005	0.935	0.0	0.0	0.0	0.0	0.0	0.0	2.182	5.542

FIELD WATER REQUIREMENT OF GROUNDNUTS P+GC

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ET CROP (MM)	73.8	67.2	35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.3	46.2
E RAINFALL (MM)	3.8	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.7	3.4
F.W.R. (MM)	69.9	67.2	33.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	42.8
W.R.Q. (MCM)	8.013	7.700	3.817	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.295	4.899

FIELD WATER REQUIREMENT OF BEANS (DRY) P+GC

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ET CROP (MM)	81.5	61.0	19.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.3	46.2
E RAINFALL (MM)	3.9	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.7	3.4
F.W.R. (MM)	77.7	61.0	17.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	42.8
W.R.Q. (MCM)	8.899	6.994	2.051	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.295	4.899

TOTAL FIELD WATER REQUIREMENT

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
DEMAND (MCM)	21.309	20.194	10.873	0.935	0.498	0.873	0.732	0.793	0.527	0.078	2.773	15.340

IRRIGATED FROM DIVERSION WORKS

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
SUPPLEMENT (MCM)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DEFICIENCY (MCM)	21.309	20.194	10.873	0.935	0.498	0.873	0.732	0.793	0.527	0.078	2.773	15.340

YEAR 5

FIELD WATER REQUIREMENT OF PADDY (WET) P+P

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ET CROP (MM)	0.0	0.0	0.0	0.0	105.7	191.1	143.8	141.0	96.6	14.9	0.0	0.0
E RAINFALL (MM)	0.0	0.0	0.0	0.0	104.4	188.8	142.1	139.4	95.4	14.7	0.0	0.0
F.W.R. (MM)	0.0	0.0	0.0	0.0	1.3	2.3	1.7	1.7	1.2	0.2	0.0	0.0
W.R.Q. (MCM)	0.0	0.0	0.0	0.0	0.045	0.082	0.062	0.060	0.041	0.006	0.0	0.0

FIELD WATER REQUIREMENT OF PADDY(WET) P+GC

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ET CROP (MM)	0.0	0.0	0.0	0.0	117.5	205.2	173.9	190.0	126.0	18.6	0.0	0.0
E RAINFALL (MM)	0.0	0.0	0.0	0.0	116.1	202.7	171.8	187.7	124.5	18.4	0.0	0.0
F.W.R. (MM)	0.0	0.0	0.0	0.0	1.4	2.5	2.1	2.3	1.5	0.2	0.0	0.0
W.R.Q. (MCM)	0.0	0.0	0.0	0.0	0.453	0.791	0.671	0.733	0.486	0.072	0.0	0.0

FIELD WATER REQUIREMENT OF PADDY (DRY) P+P

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ET CROP (MM)	127.4	154.0	142.3	27.9	0.0	0.0	0.0	0.0	0.0	0.0	80.7	159.6
E RAINFALL (MM)	4.1	0.0	2.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	24.2	4.2
F.W.R. (MM)	123.3	154.0	140.3	26.3	0.0	0.0	0.0	0.0	0.0	0.0	62.5	155.4
W.R.Q. (MCM)	4.409	5.508	5.019	0.938	0.0	0.0	0.0	0.0	0.0	0.0	2.231	5.551

FIELD WATER REQUIREMENT OF GROUNDNUTS P+GC

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ET CROP (MM)	73.8	67.2	35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.3	46.2
E RAINFALL (MM)	3.6	0.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.5	3.3
F.W.R. (MM)	70.1	67.2	33.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	42.9
W.R.Q. (MCM)	8.037	7.700	3.828	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.431	4.920

FIELD WATER REQUIREMENT OF BEANS (DRY) P+GC

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ET CROP (MM)	81.5	61.0	19.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.3	46.2
E RAINFALL (MM)	3.7	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.5	3.3
F.W.R. (MM)	77.9	61.0	18.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	42.9
W.R.Q. (MCM)	8.923	6.994	2.059	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.431	4.920

TOTAL FIELD WATER REQUIREMENT

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
DEMAND (MCM)	21.365	20.194	10.896	0.938	0.498	0.873	0.732	0.793	0.527	0.078	3.093	15.391

IRRIGATED FROM DIVERSION WORKS

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
SUPPLEMENT (MCM)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DEFICIENCY (MCM)	21.365	20.194	10.896	0.938	0.498	0.873	0.732	0.793	0.527	0.078	3.093	15.391

YEAR 10

FIELD WATER REQUIREMENT OF PADDY (WET) P+P

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ET CROP (MM)	0.0	0.0	0.0	0.0	105.7	191.1	143.8	141.0	96.6	14.9	0.0	0.0
E RAINFALL (MM)	0.0	0.0	0.0	0.0	104.4	188.8	142.1	139.4	95.4	14.7	0.0	0.0
F.W.R. (MM)	0.0	0.0	0.0	0.0	1.3	2.3	1.7	1.7	1.2	0.2	0.0	0.0
W.R.Q. (MCM)	0.0	0.0	0.0	0.0	0.045	0.082	0.062	0.060	0.041	0.006	0.0	0.0

FIELD WATER REQUIREMENT OF PADDY(WET) P+GC

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ET CROP (MM)	0.0	0.0	0.0	0.0	117.5	203.2	173.9	190.0	126.0	18.6	0.0	0.0
E RAINFALL (MM)	0.0	0.0	0.0	0.0	116.1	202.7	171.8	187.7	124.5	18.4	0.0	0.0
F.W.R. (MM)	0.0	0.0	0.0	0.0	1.4	2.5	2.1	2.3	1.5	0.2	0.0	0.0
W.R.Q. (MCM)	0.0	0.0	0.0	0.0	0.453	0.791	0.671	0.733	0.486	0.072	0.0	0.0

FIELD WATER REQUIREMENT OF PADDY (DRY) P+P

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ET CROP (MM)	127.4	154.0	142.3	27.9	0.0	0.0	0.0	0.0	0.0	0.0	86.7	159.6
E RAINFALL (MM)	4.0	0.0	2.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	24.1	4.2
F.W.R. (MM)	123.4	154.0	140.3	26.3	0.0	0.0	0.0	0.0	0.0	0.0	62.6	155.5
W.R.Q. (MCM)	4.406	5.500	5.010	0.939	0.0	0.0	0.0	0.0	0.0	0.0	2.237	5.552

FIELD WATER REQUIREMENT OF GROUNDNUTS P+GC

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ET CROP (MM)	73.8	67.2	35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.3	46.2
E RAINFALL (MM)	1.6	0.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.4	3.2
F.W.R. (MM)	70.2	67.2	33.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	43.0
W.R.Q. (MCM)	8.040	7.700	3.829	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.449	4.923

FIELD WATER REQUIREMENT OF BEANS (DRY) P+GC

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ET CROP (MM)	81.5	61.0	19.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.3	46.2
E RAINFALL (MM)	3.6	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.4	3.2
F.W.R. (MM)	77.9	61.0	18.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	43.0
W.R.Q. (MCM)	8.926	6.994	2.066	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.449	4.923

TOTAL FIELD WATER REQUIREMENT

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
DEMAND (MCM)	21.373	20.194	10.899	0.939	0.498	0.873	0.732	0.793	0.527	0.078	3.135	15.398

IRRIGATED FROM DIVERSION WORKS

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
SUPPLEMENT (MCM)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DEFICIENCY (MCM)	21.373	20.194	10.899	0.939	0.498	0.873	0.732	0.793	0.527	0.078	3.135	15.398

YEAR 11

FIELD WATER REQUIREMENT OF PADDY (WET) P+P

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ET CROP (MM)	0.0	0.0	0.0	0.0	105.7	191.1	143.8	141.0	96.6	14.9	0.0	0.0
E RAINFALL (MM)	0.0	0.0	0.0	0.0	104.4	188.8	142.1	139.4	95.4	14.7	0.0	0.0
F.W.R. (MM)	0.0	0.0	0.0	0.0	1.3	2.3	1.7	1.7	1.2	0.2	0.0	0.0
W.R.C. (MCM)	0.0	0.0	0.0	0.0	0.045	0.082	0.062	0.060	0.041	0.006	0.0	0.0

FIELD WATER REQUIREMENT OF PADDY(WET) P+GC

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ET CROP (MM)	0.0	0.0	0.0	0.0	117.5	205.2	173.9	190.0	126.0	18.6	0.0	0.0
E RAINFALL (MM)	0.0	0.0	0.0	0.0	116.1	202.7	171.8	187.7	124.5	18.4	0.0	0.0
F.W.R. (MM)	0.0	0.0	0.0	0.0	1.4	2.5	2.1	2.3	1.5	0.2	0.0	0.0
W.R.C. (MCM)	0.0	0.0	0.0	0.0	0.453	0.791	0.671	0.733	0.486	0.072	0.0	0.0

FIELD WATER REQUIREMENT OF PADDY (DRY) P+P

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ET CROP (MM)	127.4	154.0	142.3	27.9	0.0	0.0	0.0	0.0	0.0	0.0	86.7	159.6
E RAINFALL (MM)	4.6	0.0	2.3	1.9	0.0	0.0	0.0	0.0	0.0	0.0	27.5	4.8
F.W.R. (MM)	122.8	154.0	140.0	26.0	0.0	0.0	0.0	0.0	0.0	0.0	59.2	154.8
W.R.C. (MCM)	4.384	5.500	4.999	0.930	0.0	0.0	0.0	0.0	0.0	0.0	2.113	5.529

FIELD WATER REQUIREMENT OF GROUNDNUTS P+GC

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ET CROP (MM)	73.8	67.2	35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.3	46.2
E RAINFALL (MM)	4.2	0.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.1	3.7
F.W.R. (MM)	69.6	67.2	33.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	42.5
W.R.C. (MCM)	7.977	7.700	3.891	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.137	4.867

FIELD WATER REQUIREMENT OF BEANS (DRY) P+GC

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ET CROP (MM)	81.5	61.0	19.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.3	46.2
E RAINFALL (MM)	4.2	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.1	3.7
F.W.R. (MM)	77.3	61.0	17.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	42.5
W.R.C. (MCM)	8.863	6.994	2.039	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.137	4.867

TOTAL FIELD WATER REQUIREMENT

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
DEMAND (MCM)	21.225	20.194	10.838	0.930	0.498	0.873	0.732	0.793	0.527	0.078	2.388	15.263

IRRIGATED FROM DIVERSION WORKS

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
SUPPLEMENT (MCM)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DEFICIENCY (MCM)	21.225	20.194	10.838	0.930	0.498	0.873	0.732	0.793	0.527	0.078	2.388	15.263

YEAR 12

FIELD WATER REQUIREMENT OF PADDY (WET) P+P

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ET CROP (MM)	0.0	0.0	0.0	0.0	105.7	191.1	143.8	141.0	96.6	14.9	0.0	0.0
E RAINFALL (MM)	0.0	0.0	0.0	0.0	104.4	188.8	142.1	139.4	95.4	14.7	0.0	0.0
F.W.R. (MM)	0.0	0.0	0.0	0.0	1.3	2.3	1.7	1.7	1.2	0.2	0.0	0.0
W.R.Q. (MCM)	0.0	0.0	0.0	0.0	0.045	0.082	0.062	0.060	0.041	0.006	0.0	0.0

FIELD WATER REQUIREMENT OF PADDY(WET) P+GC

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ET CROP (MM)	0.0	0.0	0.0	0.0	117.5	209.2	173.9	190.0	126.0	18.6	0.0	0.0
E RAINFALL (MM)	0.0	0.0	0.0	0.0	116.1	202.7	171.8	187.7	124.5	18.4	0.0	0.0
F.W.R. (MM)	0.0	0.0	0.0	0.0	1.4	2.5	2.1	2.3	1.5	0.2	0.0	0.0
W.R.Q. (MCM)	0.0	0.0	0.0	0.0	0.453	0.791	0.671	0.733	0.486	0.072	0.0	0.0

FIELD WATER REQUIREMENT OF PADDY (DRY) P+P

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ET CROP (MM)	127.4	154.0	142.3	27.9	0.0	0.0	0.0	0.0	0.0	0.0	86.7	159.6
E RAINFALL (MM)	4.3	0.0	2.1	1.7	0.0	0.0	0.0	0.0	0.0	0.0	25.3	4.4
F.W.R. (MM)	123.2	154.0	140.2	26.2	0.0	0.0	0.0	0.0	0.0	0.0	61.4	155.2
W.R.Q. (MCM)	4.399	5.500	5.006	0.936	0.0	0.0	0.0	0.0	0.0	0.0	2.192	5.544

FIELD WATER REQUIREMENT OF GROUNDNUTS P+GC

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ET CROP (MM)	73.8	67.2	35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.3	46.2
E RAINFALL (MM)	1.8	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.5	3.4
F.W.R. (MM)	72.0	67.2	33.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	42.8
W.R.Q. (MCM)	8.018	7.700	3.819	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.323	4.903

FIELD WATER REQUIREMENT OF BEANS (DRY) P+GC

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ET CROP (MM)	81.5	61.0	19.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.3	46.2
E RAINFALL (MM)	3.8	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.5	3.4
F.W.R. (MM)	77.7	61.0	17.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	42.8
W.R.Q. (MCM)	8.904	6.994	2.053	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.323	4.903

TOTAL FIELD WATER REQUIREMENT

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
DEMAND (MCM)	21.320	20.194	10.877	0.936	0.498	0.873	0.732	0.793	0.527	0.078	2.838	15.350

IRRIGATED FROM DIVERSION WORKS

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
SUPPLEMENT (MCM)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DEFICIENCY (MCM)	21.320	20.194	10.877	0.936	0.498	0.873	0.732	0.793	0.527	0.078	2.838	15.350

YEAR 13

FIELD WATER REQUIREMENT OF PADDY (WET) P+P

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ET CROP (MM)	0.0	0.0	0.0	0.0	105.7	191.1	143.8	141.0	96.6	14.9	0.0	0.0
E RAINFALL (MM)	0.0	0.0	0.0	0.0	104.4	188.8	142.1	139.4	95.4	14.7	0.0	0.0
F.W.R. (MM)	0.0	0.0	0.0	0.0	1.3	2.3	1.7	1.7	1.2	0.2	0.0	0.0
W.R.Q. (MCM)	0.0	0.0	0.0	0.0	0.045	0.082	0.062	0.060	0.041	0.006	0.0	0.0

FIELD WATER REQUIREMENT OF PADDY(WET) P+GC

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ET CROP (MM)	0.0	0.0	0.0	0.0	117.5	205.2	173.9	190.0	126.0	18.6	0.0	0.0
E RAINFALL (MM)	0.0	0.0	0.0	0.0	116.1	202.7	171.8	187.7	124.5	18.4	0.0	0.0
F.W.R. (MM)	0.0	0.0	0.0	0.0	1.4	2.5	2.1	2.3	1.5	0.2	0.0	0.0
W.R.Q. (MCM)	0.0	0.0	0.0	0.0	0.453	0.791	0.671	0.733	0.486	0.072	0.0	0.0

FIELD WATER REQUIREMENT OF PADDY (DRY) P+P

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ET CROP (MM)	127.4	154.0	142.3	27.9	0.0	0.0	0.0	0.0	0.0	0.0	86.7	159.6
E RAINFALL (MM)	4.3	0.0	2.2	1.7	0.0	0.0	0.0	0.0	0.0	0.0	25.6	4.5
F.W.R. (MM)	123.1	154.0	140.1	26.2	0.0	0.0	0.0	0.0	0.0	0.0	61.1	155.2
W.R.Q. (MCM)	4.397	5.500	5.005	0.935	0.0	0.0	0.0	0.0	0.0	0.0	2.181	5.542

FIELD WATER REQUIREMENT OF GROUNDNUTS P+GC

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ET CROP (MM)	73.8	67.2	35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.3	46.2
E RAINFALL (MM)	3.9	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.7	3.4
F.W.R. (MM)	69.9	67.2	33.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	42.7
W.R.Q. (MCM)	8.013	7.700	3.817	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.293	4.898

FIELD WATER REQUIREMENT OF BEANS (DRY) P+GC

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ET CROP (MM)	81.3	61.0	19.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.3	46.2
E RAINFALL (MM)	3.9	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.7	3.4
F.W.R. (MM)	77.7	61.0	17.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	42.7
W.R.Q. (MCM)	8.898	6.994	2.051	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.293	4.898

TOTAL FIELD WATER REQUIREMENT

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
DEMAND (MCM)	21.308	20.194	10.872	0.935	0.498	0.873	0.732	0.793	0.527	0.078	2.767	15.339

IRRIGATED FROM DIVERSION WORKS

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
SUPPLEMENT (MCM)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DEFICIENCY (MCM)	21.308	20.194	10.872	0.935	0.498	0.873	0.732	0.793	0.527	0.078	2.767	15.339

YEAR 14

FIELD WATER REQUIREMENT OF PADDY (WET) P+P

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ET CROP (MM)	0.0	0.0	0.0	0.0	105.7	191.1	143.8	141.0	96.6	14.9	0.0	0.0
E RAINFALL (MM)	0.0	0.0	0.0	0.0	104.4	186.8	142.1	139.4	95.4	14.7	0.0	0.0
F.W.R. (MM)	0.0	0.0	0.0	0.0	1.3	2.3	1.7	1.7	1.2	0.2	0.0	0.0
W.R.Q. (MCM)	0.0	0.0	0.0	0.0	0.045	0.082	0.062	0.060	0.041	0.006	0.0	0.0

FIELD WATER REQUIREMENT OF PADDY(WET) P+GC

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ET CROP (MM)	0.0	0.0	0.0	0.0	117.5	205.2	173.9	190.0	126.0	18.6	0.0	0.0
E RAINFALL (MM)	0.0	0.0	0.0	0.0	116.1	202.7	171.8	187.7	124.5	18.4	0.0	0.0
F.W.R. (MM)	0.0	0.0	0.0	0.0	1.4	2.5	2.1	2.3	1.5	0.2	0.0	0.0
W.R.Q. (MCM)	0.0	0.0	0.0	0.0	0.453	0.791	0.671	0.733	0.486	0.072	0.0	0.0

FIELD WATER REQUIREMENT OF PADDY (DRY) P+P

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ET CROP (MM)	127.4	154.0	142.3	27.9	0.0	0.0	0.0	0.0	0.0	0.0	86.7	159.6
E RAINFALL (MM)	4.2	0.0	2.1	1.7	0.0	0.0	0.0	0.0	0.0	0.0	25.3	4.4
F.W.R. (MM)	123.2	154.0	140.2	26.2	0.0	0.0	0.0	0.0	0.0	0.0	61.4	155.2
W.R.Q. (MCM)	4.399	5.500	5.006	0.936	0.0	0.0	0.0	0.0	0.0	0.0	2.193	5.544

FIELD WATER REQUIREMENT OF GROUNDNUTS P+GC

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ET CROP (MM)	73.8	67.2	35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.3	46.2
E RAINFALL (MM)	3.8	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.5	3.4
F.W.R. (MM)	70.0	67.2	33.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	42.8
W.R.Q. (MCM)	8.818	7.700	3.819	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.325	4.903

FIELD WATER REQUIREMENT OF BEANS (DRY) P+GC

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ET CROP (MM)	81.5	61.0	19.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.3	46.2
E RAINFALL (MM)	3.8	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.5	3.4
F.W.R. (MM)	77.7	61.0	17.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	42.8
W.R.Q. (MCM)	8.904	6.994	2.053	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.325	4.903

TOTAL FIELD WATER REQUIREMENT

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
DEMAND (MCM)	21.321	20.194	10.878	0.936	0.498	0.873	0.732	0.793	0.527	0.078	2.844	15.351

IRRIGATED FROM DIVERSION WORKS

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
SUPPLEMENT (MCM)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DEFICIENCY (MCM)	21.321	20.194	10.878	0.936	0.498	0.873	0.732	0.793	0.527	0.078	2.844	15.351

YEAR 15

FIELD WATER REQUIREMENT OF PADDY (WET) P+P

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ET CROP (MM)	0.0	0.0	0.0	0.0	153.7	191.1	143.8	141.0	96.6	14.9	0.0	0.0
E RAINFALL (MM)	3.0	0.0	0.0	0.0	104.4	188.8	142.1	139.4	95.4	14.7	0.0	0.0
F.W.R. (MM)	0.0	0.0	0.0	0.0	1.3	2.3	1.7	1.7	1.2	0.2	0.0	0.0
W.R.Q. (MCM)	0.0	0.0	0.0	0.0	0.045	0.082	0.062	0.060	0.041	0.006	0.0	0.0

FIELD WATER REQUIREMENT OF PADDY(WET) P+GC

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ET CROP (MM)	0.0	0.0	0.0	0.0	117.5	205.2	173.9	190.0	126.0	18.6	0.0	0.0
E RAINFALL (MM)	0.0	0.0	0.3	0.0	116.1	202.7	171.8	187.7	124.5	18.4	0.0	0.0
F.W.R. (MM)	0.0	0.0	0.0	0.0	1.4	2.5	2.1	2.3	1.5	0.2	0.0	0.0
W.R.Q. (MCM)	0.0	0.0	0.0	0.0	0.453	0.791	0.671	0.733	0.486	0.072	0.0	0.0

FIELD WATER REQUIREMENT OF PADDY (DRY) P+P

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ET CROP (MM)	127.4	154.0	142.3	27.9	0.0	0.0	0.0	0.0	0.0	0.0	86.7	159.6
E RAINFALL (MM)	3.9	0.0	1.9	1.6	0.0	0.0	0.0	0.0	0.0	0.0	23.2	4.0
F.W.R. (MM)	123.5	154.0	140.3	26.3	0.0	0.0	0.0	0.0	0.0	0.0	63.5	155.6
W.R.Q. (MCM)	4.411	5.500	5.012	0.941	0.0	0.0	0.0	0.0	0.0	0.0	2.266	5.557

FIELD WATER REQUIREMENT OF GROUNDNUTS P+GC

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ET CROP (MM)	73.8	67.2	35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.3	46.2
E RAINFALL (MM)	3.5	0.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.7	3.1
F.W.R. (MM)	70.3	67.2	33.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	43.1
W.R.Q. (MCM)	8.055	7.700	3.835	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.529	4.936

FIELD WATER REQUIREMENT OF BEANS (DRY) P+GC

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ET CROP (MM)	81.5	61.0	19.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.3	46.2
E RAINFALL (MM)	3.5	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.7	3.1
F.W.R. (MM)	78.0	61.0	18.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	43.1
W.R.Q. (MCM)	8.940	6.994	2.065	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.529	4.936

TOTAL FIELD WATER REQUIREMENT

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
DEMAND (MCM)	21.406	20.194	10.913	0.941	0.498	0.873	0.732	0.793	0.527	0.078	3.325	15.429

IRRIGATED FROM DIVERSION WORKS

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
SUPPLEMENT (MCM)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DEFICIENCY (MCM)	21.406	20.194	10.913	0.941	0.498	0.873	0.732	0.793	0.527	0.078	3.325	15.429

ANNUAL MEAN NON-RAINFALL DAYS

(Unit: Days)

Station	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Total
Hmawbi	30	27	30	28	14	4	3	3	6	17	26	29	217
Taikkyi	30	28	30	28	17	5	6	4	12	19	27	30	236
Tharrawaddy	30	28	30	28	18	4	4	4	7	15	26	29	223
Minhla	30	28	30	28	19	8	7	5	11	18	27	30	241
Okpo	30	28	30	29	17	10	11	9	12	19	25	30	250
Gyobingauk	30	28	31	29	22	14	13	15	18	22	28	30	280
Zigon	30	28	30	29	22	11	11	13	16	21	27	30	268
Prome	30	28	30	27	19	8	7	8	11	18	26	30	242
Paukkaung	30	28	30	29	21	8	7	9	13	21	26	30	252
Shwedaung	30	28	31	28	21	13	11	14	14	21	28	30	269
Henzada	30	28	30	28	19	5	4	6	11	18	26	30	235
Kyangin	30	28	30	28	20	9	9	8	12	19	27	30	250
Myanaung	30	28	30	28	19	10	11	12	15	22	28	30	263
Ingabu	30	28	30	28	20	6	5	7	13	18	29	30	244
Zalun	30	28	30	28	22	7	7	7	11	21	28	30	249
Danuybu	30	28	30	28	19	7	6	6	11	20	26	30	241
Lemyethna	30	28	31	25	18	4	3	7	12	15	28	30	231
Yegyi	31	28	31	29	18	10	8	12	18	22	29	30	266
Kyonpyaw	30	28	31	27	17	7	3	4	12	20	25	30	234
Average	30	28	30	28	19	8	7	8	12	19	27	30	246

ANNUAL MEAN NON-RAINFALL DAYS
(Less than 1.0 mm)

(Unit: Days)

Station	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Total
Hmawbi	30	27	30	29	15	6	5	5	8	18	27	29	229
Taikkti	30	28	30	28	19	6	8	5	12	19	27	30	242
Tharrawaddy	30	28	30	29	20	6	5	7	10	17	26	30	238
Minhla	30	28	30	28	20	8	8	5	11	19	27	30	244
Okpo	30	28	30	29	20	13	13	11	14	20	26	30	264
Gyobingauk	30	28	31	29	22	14	14	15	18	22	28	30	281
Zigon	30	28	30	29	22	11	11	13	16	21	27	30	268
Prome	30	28	30	28	20	11	9	10	13	20	27	30	256
Paukkaung	30	28	30	29	22	10	9	11	15	22	27	30	263
Shwedaung	30	28	31	28	21	13	12	14	14	21	28	30	270
Henzada	30	28	30	29	19	6	6	6	11	19	27	30	241
Kyangin	30	28	30	28	20	10	10	9	13	20	28	30	256
Myanaung	30	28	30	28	20	10	12	13	16	23	28	30	268
Ingabu	30	28	30	28	20	7	6	9	14	19	29	30	250
Zalun	30	28	30	28	22	8	7	7	12	22	28	30	252
Danubyu	30	28	30	28	19	8	7	7	12	20	27	30	246
Lemyethna	30	28	31	25	18	4	3	8	12	16	28	30	233
Yegyi	31	28	31	29	19	10	9	12	20	23	29	30	271
Kyonpyaw	30	28	31	27	19	8	4	5	14	22	27	30	245
Average	30	28	30	28	20	9	8	9	13	20	27	30	250

ANNUAL MEAN NON-RAINFALL DAYS
(Less than 5.0 mm)

(Unit: Days)

Station	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Total
Hmawbi	30	28	30	29	19	10	10	10	14	22	28	30	260
Taikkyi	30	28	30	29	22	9	11	9	15	21	28	30	262
Tharrawaddy	30	28	30	29	23	11	10	12	16	21	28	30	268
Minhla	30	28	30	29	22	14	11	11	17	22	28	30	272
Okpo	30	28	30	30	23	19	19	16	19	24	27	30	295
Gyobingauk	30	28	31	29	24	17	18	19	20	24	29	30	299
Zigon	30	28	30	29	23	14	15	17	19	23	28	30	286
Prome	30	28	30	29	24	18	17	19	19	24	28	30	296
Paukkaung	30	28	30	29	24	17	17	19	20	26	28	31	299
Shwedaung	30	28	31	29	24	17	16	18	17	23	28	30	291
Henzada	30	28	30	29	22	11	10	11	17	22	28	30	268
Kayngin	30	28	30	29	24	15	16	16	18	23	28	30	287
Myanaung	30	28	30	29	23	15	17	18	19	24	29	30	292
Ingabu	30	28	31	29	23	12	10	15	18	24	29	31	280
Zalun	30	28	30	29	23	11	11	11	15	24	28	30	270
Danubyu	30	28	30	29	22	12	11	11	16	23	28	30	270
Lemyethna	30	28	31	26	20	9	7	10	18	20	29	31	259
Yegyi	31	28	31	29	21	14	11	14	21	25	29	30	284
Kyonpyaw	31	28	31	28	22	12	8	8	17	23	27	31	266
Average	30	28	30	29	23	14	13	14	18	23	28	30	280

ANNUAL MEAN NON-RAINFALL DAYS
(Less than 10 mm)

(Unit: Days)

Station	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Total
Hmawbi	30	28	30	29	22	15	14	14	19	25	29	30	285
Taikkyi	31	28	30	29	24	14	14	13	18	24	28	30	283
Tharrawaddy	30	28	30	29	25	15	15	17	20	25	29	30	293
Minhla	30	28	30	29	24	18	17	16	22	25	29	30	298
Okpo	31	28	30	30	26	24	22	21	23	27	29	30	321
Gyobingauk	30	28	31	29	25	19	21	22	24	26	29	30	314
Zigon	30	28	30	29	25	18	20	21	23	26	28	31	309
Prome	30	28	31	29	26	22	22	23	22	26	29	30	318
Paukkaung	31	28	31	29	26	21	23	24	24	27	28	31	323
Shwedaung	30	28	31	29	26	22	21	23	20	25	29	30	314
Henzada	30	28	30	29	24	16	13	15	21	25	28	30	289
Kyangin	30	28	30	29	26	19	21	22	23	26	29	31	314
Myanaung	30	28	30	29	25	19	22	22	22	26	29	30	312
Ingabu	30	28	31	29	25	16	15	19	21	26	29	31	300
Zalun	30	28	30	29	25	15	15	15	19	26	29	30	291
Danubyu	30	28	30	29	24	15	16	16	20	25	29	30	292
Lemyethna	31	28	31	27	23	13	12	14	21	24	29	31	284
Yegyi	31	28	31	29	23	16	15	17	22	26	29	30	297
Kyanpyaw	31	28	31	28	24	14	13	13	20	25	28	31	286
Average	30	28	31	29	25	17	17	18	21	26	29	30	301

ANNUAL MEAN NON-RAINFALL DAYS
(Less than 30 mm)

(Unit: Days)

Station	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Total
Hmawbi	30	28	30	29	27	25	24	24	26	29	29	30	331
Taikkyi	31	28	31	29	28	24	23	24	26	28	29	31	332
Tharrawaddy	30	28	31	29	28	25	25	26	27	29	29	30	337
Minhla	30	28	31	29	29	27	26	27	28	29	29	31	344
Okpo	31	28	31	30	29	29	29	29	27	30	30	31	354
Gyobingauk	31	28	31	30	29	27	28	28	28	30	29	30	349
Zigon	31	28	30	29	29	27	28	28	28	29	29	31	347
Prome	31	28	31	30	29	27	29	29	28	29	29	30	350
Paukkaung	31	28	31	30	29	27	29	29	29	30	29	31	353
Shwedaung	31	28	31	29	29	27	29	29	27	29	29	30	348
Henzada	30	28	30	29	29	25	24	25	27	29	29	31	336
Kyangin	30	28	30	29	29	26	29	29	28	29	29	31	347
Myanaung	31	28	31	29	29	27	29	28	27	30	29	30	348
Ingabu	31	28	31	30	28	26	26	26	28	29	29	31	343
Zalun	30	28	31	29	28	25	24	26	26	30	29	31	337
Danubyu	31	28	31	29	28	25	25	25	26	29	29	30	336
Lemyethna	31	28	31	29	27	23	22	22	26	29	30	31	329
Yegyi	31	28	31	30	28	25	24	25	27	28	29	31	337
Kyonpyaw	31	28	31	29	28	24	23	25	27	29	29	31	335
Average	31	28	31	29	28	26	26	27	27	29	29	31	342

ACCUMULATED SPECIFIC DISCHARGE

(Unit: mm)

Station	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
1. Okkan	0	0	0	0	14	99	336	609	759	846	863	866
2. Thegow	0	0	0	0	3	129	339	697	843	924	972	989
3. Kadinbilin	0	0	0	0	44	465	699	939	1,172	1,265	1,289	1,291
4. Bawbin	0	0	0	0	6	62	111	175	204	241	247	247
5. Gamon	0	0	0	0	7	44	104	205	269	283	292	292
6. Taungnyo	0	0	0	0	1	15	87	127	158	174	175	175
7. Wegyi	0	0	0	0	12	75	186	296	355	419	448	457
8. Thegon	0	0	0	0	46	126	212	269	312	335	367	367
9. Shwele												
10. Dingyi	0	0	0	0	10	61	165	273	355	423	449	455
11. Alenawin	0	0	0	0	12	57	116	194	261	303	322	324
12. South Nawin	0	0	0	0	13	69	175	280	360	422	446	450
13. Kyun Yaung	0	0	0	0	0	29	55	92	132	168	170	170
14. Kyun Chaung	0	0	0	0	0	54	94	254	317	376	393	394

ACCUMULATED RAINFALL

(Unit: mm)

Station	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	
Tharrawaddy	6.7	7.2	10.6	24.3	220.1	668.9	1,174.0	1,644.9	1,948.2	2,136.1	2,168.5	2,180.6	Okkan Thegow
Minhla	4.5	5.1	6.0	22.7	206.8	567.6	1,007.1	1,433.6	1,655.7	1,828.9	1,855.4	1,858.7	
Okpo	1.9	1.9	8.4	10.9	223.7	421.7	675.4	961.7	1,195.0	1,324.5	1,359.4	1,366.2	Bawbin
Gyobingauk	1.3	1.9	1.9	6.0	158.4	448.5	731.4	988.8	1,179.4	1,318.9	1,331.0	1,338.5	Gamon
Zigon	2.1	2.5	4.4	15.7	183.7	534.6	878.5	1,157.8	1,369.0	1,519.7	1,560.7	1,561.5	Wegyi
Prome	4.6	5.6	6.4	16.8	168.3	414.6	668.7	887.2	1,105.9	1,266.1	1,291.7	1,298.2	Thegon
Paukkaung	0.9	0.9	2.6	8.6	151.2	450.3	666.5	898.6	1,065.5	1,176.8	1,224.5	1,224.8	Dingyi, Alenawin South Nawin
Shwedaung	0.7	1.2	1.2	16.1	166.5	444.1	707.8	945.4	1,214.2	1,363.3	1,388.1	1,395.9	Kyun Chaung

SPECIFIC MONTHLY DISCHARGE

(Unit: mm)

River	C.A (sq.km)	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Total
1. Okkan	313.4	0	0	0	0	14	85	237	273	150	87	17	3	866
2. Thegaw	88.1	0	0	0	0	3	126	210	358	146	81	48	17	989
3. Kadinbilin	240.9	0	0	0	0	44	421	234	240	233	93	24	2	1,291
4. Bawbin	261.6	0	0	0	0	6	56	49	64	29	37	6	0	247
5. Gamon	80.3	0	0	0	0	7	37	60	101	64	14	9	0	292
6. Taungnyo	549.1					1	14	72	40	31	16	1	0	175
7. Wegyi	538.7	0	0	0	0	12	63	111	110	59	64	29	9	457
8. Thegon	69.8	0	0	0	0	46	80	86	57	43	23	32	0	367
9. Shwele														
10. Dingyi	323.7	0	0	0	0	10	51	104	108	82	68	26	6	455
11. Alenawin	274.5	0	0	0	0	12	45	59	78	67	42	19	2	324
12. South Nawin	639.7	0	0	0	0	13	56	106	105	80	62	24	4	450
13. Kyun Yaung	64.7	0	0	0	0	0	29	26	37	40	36	2	0	170
14. Kyun Chaung	72.5	0	0	0	0	0	54	40	160	63	59	17	1	394

APPENDIX D-7 WATER REQUIREMENTS

WATER REQUIREMENT OF PADDY ON GROWING STAGE

	Month					
	1st	2nd	3rd	4th	5th	6th
Prome; Wet season paddy of type A						
ETo (mm/day)	6.2	4.2	3.3	3.1	3.3	3.2
Kc value	1.0	1.1	1.1	1.05	1.00	0.95
ET crop (mm/day)	6.20	4.62	3.63	3.26	3.30	3.04
Percolation rate (mm/day)	1.5	1.5	1.5	1.5	1.5	1.5
Total (d)	7.70	6.12	5.13	4.76	4.80	4.54
Water requirement (mm/day)	0.15	3.58	5.13	4.76	2.94	0.64
Prome; Wet season paddy of type B						
ETo (mm/day)	6.2	4.2	3.3	3.1	3.3	3.2
Kc value	1.0	1.1	1.1	1.05	1.00	0.95
ET crop (mm/day)	6.20	4.62	3.63	3.26	3.30	3.04
Percolation rate (mm/day)	2.5	2.5	2.5	2.5	2.5	2.5
Total (d)	8.70	7.12	6.13	5.76	5.80	5.54
Water requirement (mm/day)	0.17	4.17	6.13	5.76	3.56	0.78
Prome; Dry season paddy of type A						
ETo (mm/day)	3.1	2.9	3.1	4.1	5.1	7.4
Kc value	1.0	1.1	1.1	1.25	1.13	1.0
ET crop (mm/day)	3.10	3.19	3.41	5.13	5.76	7.40
Percolation rate (mm/day)	1.5	1.5	1.5	1.5	1.5	1.5
Total (d)	4.60	4.69	4.91	6.63	7.26	8.90
Water requirement (mm/day)	0.09	2.68	4.91	6.63	6.35	1.61
Tharrawaddy; Wet season paddy of type A'						
ETo (mm/day)	5.4	4.1	3.9	3.6	4.1	3.1
Kc value	1.0	1.1	1.1	1.05	1.0	0.95
ET crop (mm/day)	5.40	4.51	4.29	3.78	4.10	2.95
Percolation (mm/day)	1.5	1.5	1.5	1.5	1.5	1.5
Total (d)	6.90	6.01	5.79	5.28	5.60	4.45
Water requirement (mm/day)	0.10	2.87	5.60	5.28	3.92	0.49

Tharrawaddy; Wet season paddy of type B'

	Month					
	1st	2nd	3rd	4th	5th	6th
ETo (mm/day)	5.4	4.1	3.9	3.6	4.1	3.1
Kc value	1.0	1.1	1.1	1.05	1.0	0.95
ET crop (mm/day)	5.40	4.51	4.29	3.78	4.10	2.95
Percolation (mm/day)	2.5	2.5	2.5	2.5	2.5	2.5
Total (d)	7.90	7.01	6.79	6.28	6.60	5.45
Water requirement (mm/day)	0.12	3.35	6.57	6.28	4.62	0.60

Tharrawaddy; Dry season paddy of type A'

ETo (mm/day)	2.7	2.4	2.5	3.6	4.7	6.7
Kc value	1.0	1.1	1.1	1.25	1.13	1.0
ET crop (mm/day)	2.70	2.64	2.75	4.50	5.31	6.70
Percolation (mm/day)	1.5	1.5	1.5	1.5	1.5	1.5
Total (d)	4.20	4.14	4.25	6.00	6.81	8.20
Water requirement (mm/day)	0.07	1.91	4.11	6.00	5.10	1.15

Henzada; Wet season paddy of type A'

ETo (mm/day)	4.2	3.1	3.0	2.9	3.1	3.0
Kc value	1.0	1.1	1.1	1.05	1.0	0.95
ET crop (mm/day)	4.20	3.41	3.30	3.05	3.10	2.85
Percolation (mm/day)	1.5	1.5	1.5	1.5	1.5	1.5
Total (d)	5.70	4.91	4.80	4.55	4.60	4.35
Water requirement (mm/day)	0.09	2.35	4.64	4.55	3.22	0.48

Henzada; Wet season paddy of type B'

ETo (mm/day)	4.2	3.1	3.0	2.9	3.1	3.0
Kc value	1.0	1.1	1.1	1.25	1.13	1.0
ET crop (mm/day)	4.20	3.41	3.30	3.63	3.50	3.00
Percolation (mm/day)	2.5	2.5	2.5	2.5	2.5	2.5
Total (d)	6.70	5.91	5.80	6.13	6.00	5.50
Water requirement (mm/day)	0.10	2.82	5.61	6.13	4.20	0.60

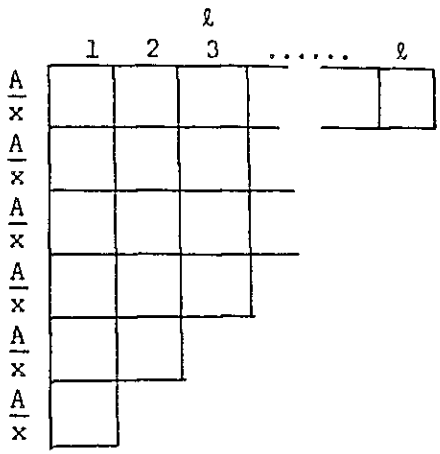
Henzada; Dry season paddy of type A'

ETo (mm/day)	2.7	2.4	2.5	3.2	4.1	5.1
Kc value	1.0	1.1	1.1	1.25	1.13	1.0
ET crop (mm/day)	2.70	2.64	2.75	4.00	4.63	5.10
Percolation (mm/day)	1.5	1.5	1.5	1.5	1.5	1.5
Total (d)	4.20	4.14	4.25	5.50	6.13	6.60
Water requirement (mm/day)	0.09	1.91	4.11	5.50	4.59	0.93

WATER REQUIREMENT FOR GROWING STAGE OF PADDY

Basic equation for Type A & B (Growing period of 145 days)

On first month



Where

x; Transplanting period (days)

A; Irrigable area (ha)

ℓ ; Apprication period of water requirement (days)

d; Consumptive use (mm/day)

$$Q_1(\text{mm/day}) = \frac{A}{x}\cdot\left(\frac{1+\ell 1}{2}\right)\cdot \ell_1 \cdot d_1 \cdot \frac{1}{n_1}$$

On second month

$$Q_2 = \left[1.0 - \left(\frac{1+\ell 2}{2}\right)\cdot \ell_2 \cdot \frac{1}{n_2} \cdot \frac{1}{x}\right] d_2 . A$$

On third and forth month

$$Q = 1.0\ d \cdot A$$

On fifth month

$$Q = \left[1.0 - \frac{1}{x}\cdot\left(\frac{1+\ell 3}{2}\right) \cdot \ell_3 \cdot \frac{1}{n_3}\right] d_5 \cdot A$$

On sixth month

$$Q = \frac{A}{x}\cdot\left(\frac{1+\ell 4}{2}\right) \cdot \ell_4 \cdot d \cdot \frac{1}{n_4}$$

Basin equation for Type A' & B' (Growing period of 135 days)

On first month

$$Q_1 = \frac{A}{x} \cdot \left(\frac{1+\ell}{2}\right) \cdot \ell \cdot d \cdot \frac{1}{n_1}$$

On second month

$$Q_2 = \frac{A}{x}\left[\left(\frac{1+\ell_2}{2}\right) \cdot \ell_2 - \left(\frac{1+\ell 1}{2}\right) \cdot \ell_1\right] \cdot d \cdot \frac{1}{n_2}$$

On third month

$$Q_3 = \left[1.0 - \left(\frac{1+\ell 3}{2}\right) \ell_3 \cdot \frac{1}{n_3 x}\right] A \cdot d$$

On forth month

$$Q_4 = 1.0 \ d \cdot A$$

On fifth month

$$Q_5 = \left[1.0 - \left(\frac{1+\ell_4}{2}\right) \ell_4 \cdot \frac{1}{n_4 x}\right] A \cdot d$$

On Sixth month

$$Q_6 = \left(\frac{1+\ell 5}{2}\right) \ell_5 \cdot \frac{A}{x} \cdot d \cdot \frac{1}{n_5}$$

Paddy Type	Wet Season Paddy				Dry Season Paddy	
	A	B	A'	B'	A	A'
x	35	35	45	45	35	45
ℓ_1	6	6	6	6	6	6
n_1	31	31	31	31	30	30
Q_1	0.0194 d·A		0.0151 d·A		0.02 d·A	0.0156 d·A
ℓ_2	29	29	36	36	30	36
n_2	30	30	30	30	31	31
Q_2	0.5857 d_2·A		0.4778 d_2·A		0.5714 d_2·A	0.4624 d_2·A
Q_3	1.0 d_3·A		0.9677 d_3·A		1.0 d_3·A	0.9677 d_3·A
Q_4	1.0 d_4·A		1.0 d_4·A		1.0 d_4·A	1.0 d_4·A
ℓ_3	28	28	9	9	16	9
n_3	30	30	31	31	31	31
Q_5	0.6133 d_5 A		0.6993 d_5 A		0.8747 d_5 A	0.7484 d_5 A
ℓ_4	17	17	28	28	19	26
n_4	31	31	30	30	31	31
Q_6	0.1410 d_6·A		0.1097 d_6·A		0.1810 d_6·A	0.1407 d_6·A
ℓ_5			17	17		19
n_5			31	31		30

WATER REQUIREMENT BY MONTH
(DURING LAND SOAKING AND LAND PREPARATION)

Basic equation for first month

$$Q = \left(\frac{n}{x}.a.A + \frac{n-11}{x}.b.A + \frac{n-20}{x}.c.A\right)\frac{1}{n} = \{n.a + (n-11).b + (n-20).c\}\frac{A}{x.n}$$

for second month

$$Q = \left\{\frac{(x-n)}{x}\ a.A + \frac{(x-n+11)}{x}.b.A + \frac{(x-n+20)}{x}.c.A\right\}\frac{1}{m}$$

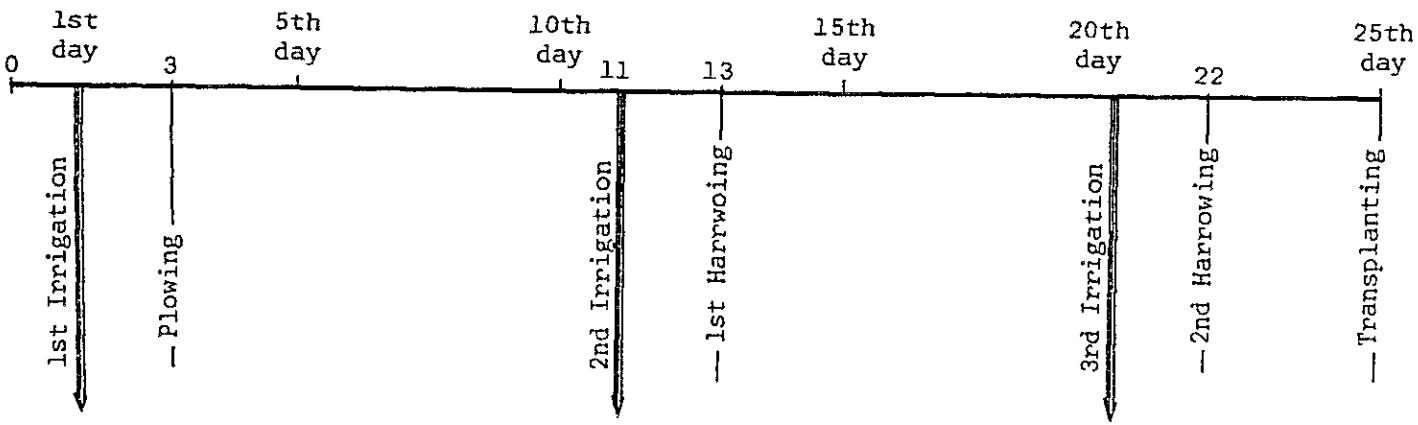
$$= \{(x-n).a + (x-n+11).b + (x-n+20).c\}\frac{A}{m.x}$$

Where

Q; Water requirement in depth a day (mm/day)
a; Depth of first irrigation water (mm)
b; Depth of second irrigation water (mm)
c; Depth of third irrigation water (mm)
n.m; Days of a month
x; Transplanting period (day)
A; Irrigable area

Item / Place	Type	x	a	b	c	n	m	Water requirement Month 1st (mm/day)	Water requirement Month 2nd (mm/day)
a) Starting at end of dry season									
Prome	A	35	109	49	82	31	30	4.85A	2.99A
"	B	35	118	58	88	31	30	5.33A	3.29A
Tharrawaddy	A'	45	106	46	80	31	30	3.65A	3.97A
"	B'	45	115	55	86	31	30	4.02A	4.38A
Henzada	A'	45	98	38	76	31	30	3.32A	3.63A
"	B'	45	107	47	81	31	30	3.69A	4.02A
b) Starting at end of wet season									
Prome	A	35	79	34	72	30	31	3.56A	2.52A
Tharrawaddy	A'	45	84	31	70	30	31	2.82A	3.24A
Henzada	A'	45	84	31	70	30	31	2.82A	3.24A

APPLICATION OF WATER REQUIREMENT FOR LAND SOAKING AND LAND PREPARATION



In end of dry season	109 mm	(=60 + 1.5 x 9 + 3.9 x 9)	49 mm	(=1.5 x 9 + 3.9 x 9)	82 mm	(=50 + 1.5 x 6 + 3.9 x 6)	Prome: Type A
	118	(=60 + 2.5 x 9 + 3.9 x 9)	58	(=2.5 x 9 + 3.9 x 9)	88	(=50 + 2.5 x 6 + 3.9 x 6)	" ; Type B
	106	(=60 + 1.5 x 9 + 3.6 x 9)	46	(=1.5 x 9 + 3.6 x 9)	80	(=50 + 1.5 x 6 + 3.6 x 6)	Tharrawaddy; Type A'
	115	(=60 + 2.5 x 9 + 3.6 x 9)	55	(=2.5 x 9 + 3.6 x 9)	86	(=50 + 2.5 x 6 + 3.6 x 6)	" ; Type B'
	98	(=60 + 1.5 x 9 + 2.7 x 9)	38	(=1.5 x 9 + 2.7 x 9)	76	(=50 + 1.5 x 6 + 2.7 x 6)	Henzada: Type A'
	107	(=60 + 2.5 x 9 + 2.7 x 9)	47	(=2.5 x 9 + 2.7 x 9)	81	(=50 + 2.5 x 6 + 2.7 x 6)	" ; Type B'
In end of wet season	79	(=45 + 1.5 x 9 + 2.3 x 9)	34	(=1.5 x 9 + 2.3 x 9)	72	(=50 + 1.5 x 6 + 2.3 x 6)	Prome: Type A
	84	(=53 + 1.5 x 9 + 1.9 x 9)	31	(=1.5 x 9 + 1.9 x 9)	70	(=50 + 1.5 x 6 + 1.9 x 6)	Tharrawaddy and Henzada; Type A'

WATER REQUIREMENT FOR LAND SOAKING AND LAND PREPARATION

Sr. No.	Item	In end of dry season				In end of wet season	
		Type A	Type A'	Type B	Type B'	Type A	Type A'
1.	Top soil saturation 150 mm depth 50% depth	80% dry	80% dry	80% dry	80% dry	60% dry	70% dry
2.	Requirment (mm) 150 mm x 0.5 x (1)	60	60	60	60	45	53
3.	Percolation loss (mm/day)	1.5	1.5	2.5	2.5	1.5	1.5
4.	Total percolation loss (mm) during 24 days of preparation	36	36	60	60	36	36
5.	Standing water requirement (mm)	50	50	50	50	50	50
6.	Evaporation loss						
	Prome	94	*	94	*	54	*
	Tharrawaddy	*	86	*	86	*	46
	Henzada	*	66	*	66	*	46
7.	Total (2 + 4 + 5 + 6)						
	Prome	240	*	264	*	185	*
	Tharrawaddy	*	232	*	256	*	185
	Henzada	*	212	*	236	*	185

Note; The cropping pattern with * mark is not applied in this area.

(STATION: PROME)

ETo by PENMAN METHOD

Item			Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
t mean		°C	23.9	25.8	29.6	32.2	30.7	30.6	27.4	28.0	27.9	27.5	26.1	23.6
ea	(1)		29.6	33.1	41.5	48.4	44.3	44.0	36.4	37.7	37.5	36.6	33.7	29.1
RH mean	(2)	%	45	48	42	49	63	86	87	88	88	84	74	65
ed	(3)=(1)x(2)		13.3	15.9	17.4	23.7	27.9	37.8	31.7	33.2	33.0	30.7	24.9	18.9
(4)	(1)-(3)		16.3	17.2	24.1	24.7	16.4	6.2	4.7	4.5	4.5	5.9	8.8	10.2
U2	(5)	km/day	96.5	108.2	112.1	154.6	146.6	123.6	112.1	108.2	88.8	85.0	104.4	139.0
fu	(6)		0.53	0.56	0.57	0.69	0.67	0.60	0.57	0.56	0.51	0.50	0.55	0.65
1-W	(7) alt.=20m		0.27	0.25	0.22	0.20	0.21	0.21	0.24	0.23	0.23	0.23	0.25	0.27
(8)	(4)x(6)x(7)	mm/day	2.33	2.41	3.02	3.41	2.31	0.78	0.64	0.58	0.53	0.68	1.21	1.79
Ra	(9) lat.=19°N	mm/day	11.4	12.9	14.5	15.6	16.2	16.3	16.2	15.9	14.8	13.5	11.8	10.9
n	(10)	hr/day	9.3	10.2	9.3	9.5	7.2	4.5	5.1	3.8	5.8	7.4	7.7	8.8
N	(11) lat.=10°N		11.1	11.5	12.0	12.6	13.0	13.2	13.1	12.8	12.3	11.7	11.2	11.0
n/N	(12)		0.84	0.89	0.78	0.75	0.55	0.34	0.39	0.30	0.47	0.60	0.69	0.80
(13)	α=0.25		0.50	0.52	0.48	0.47	0.39	0.32	0.33	0.30	0.36	0.41	0.45	0.49
Rns	(14)=(9)x(13)		5.7	6.7	7.0	7.3	6.3	5.2	5.3	4.8	5.3	5.5	5.3	5.3
f(t)	(15)		15.4	15.9	16.7	17.2	17.0	17.0	16.1	16.3	16.3	16.3	15.9	15.4
f(ed)	(16)		0.27	0.24	0.23	0.17	0.14	0.07	0.11	0.10	0.10	0.12	0.17	0.22
f(n/N)	(17)		0.86	0.90	0.80	0.78	0.60	0.41	0.45	0.37	0.52	0.64	0.72	0.82
Rnl	(18)=(15)x(16)x(17)		3.6	3.4	3.1	2.3	1.4	0.5	0.8	0.6	0.8	1.3	1.9	2.8
Rn	(19)=(14)-(18)		2.1	3.3	3.9	5.0	4.9	4.7	4.5	4.2	4.5	4.2	3.4	2.5
W	(20)		0.73	0.75	0.78	0.80	0.79	0.79	0.76	0.77	0.77	0.77	0.75	0.73
W·Rn	(21)=(19)x(20)	mm/day	1.5	2.5	3.0	4,0	3.9	3.7	3.4	3.2	3.5	3.2	2.6	1.8
ETo	(22)=(8)+(21)	mm/day	3.8	4.9	6.0	7.4	6.2	4.5	4.0	3.8	4.0	3.9	3.8	3.6
ET correction		mm/day	3.1	4.1	5.1	7.4	6.2	4.2	3.3	3.1	3.3	3.2	3.1	2.9

(STATION: THARRAWADDY)

ETo by PENMAN METHOD

Item			Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
t mean		°C	22.5	24.7	28.0	30.7	30.1	27.7	27.2	27.3	27.6	27.3	26.5	23.4
ea	(1)		27.2	31.0	37.7	44.3	42.7	37.1	36.0	36.2	36.8	36.2	34.5	28.7
RH mean	(2)	%	71	61	58	60	78	90	91	90	89	87	86	84
ed	(3)=(1)x(2)		19.3	18.9	21.9	26.6	33.3	33.4	32.8	32.6	32.8	31.5	29.7	24.1
(4)	(1)-(3)		7.9	12.1	15.8	17.7	9.4	3.7	3.2	3.6	4.0	4.7	4.8	4.6
U2	(5)	km/day	69.6	98.9	98.9	146.9	129.7	162.0	146.6	146.6	141.1	77.3	65.8	81.1
fu	(6)		0.46	0.54	0.54	0.67	0.62	0.71	0.67	0.67	0.65	0.48	0.45	0.49
1-W	(7) alt.=15m		0.28	0.26	0.23	0.21	0.22	0.23	0.24	0.24	0.23	0.24	0.24	0.28
(8)	(4)x(6)x(7)	mm/day	1.02	1.70	1.96	2.49	1.28	0.60	0.51	0.58	0.60	0.54	0.52	0.63
Ra	(9) lat.=18°N	mm/day	11.6	13.0	14.6	15.6	16.1	16.1	16.1	15.8	14.9	13.6	12.0	11.1
n	(10)	hr/day	9.3	10.2	9.3	9.5	7.2	4.5	5.1	3.8	5.8	7.4	7.7	8.8
N	(11) lat.=18°N		11.1	11.5	12.0	12.6	13.0	13.2	13.1	12.8	12.3	11.7	11.2	11.0
n/N	(12)		0.84	0.89	0.78	0.75	0.55	0.34	0.39	0.30	0.47	0.60	0.69	0.80
(13)	α=0.25		0.50	0.52	0.48	0.47	0.39	0.32	0.33	0.30	0.36	0.41	0.45	0.49
Rns	(14)=(9)x(13)		5.8	6.8	7.0	7.3	6.3	5.2	5.3	4.7	5.4	5.6	5.4	5.4
f(t)	(15)		15.2	15.7	16.3	17.0	16.7	16.3	16.1	16.1	16.3	16.1	16.1	15.2
f(ed)	(16)		0.22	0.22	0.19	0.15	0.10	0.10	0.11	0.11	0.11	0.12	0.13	0.17
f(n/N)	(17)		0.86	0.90	0.80	0.78	0.60	0.41	0.45	0.37	0.52	0.64	0.72	0.82
Rnl	(18)=(15)x(16)x(17)		2.9	3.1	2.5	2.0	1.0	0.7	0.8	0.7	0.9	1.2	1.5	2.1
Rn	(19)=(14)-(18)		2.9	3.7	4.5	5.3	5.3	4.5	4.5	4.0	4.5	4.4	3.9	3.3
W	(20)		0.72	0.74	0.77	0.79	0.78	0.77	0.76	0.76	0.77	0.76	0.75	0.72
W·Rn	(21)=(19)x(20)	mm/day	2.1	2.7	3.5	4.2	4.1	3 5	3.4	3.0	3.5	3.3	2.9	2.4
ETo	(22)=(8)+(21)	mm/day	3.1	4.4	5.5	6.7	5.4	4.1	3.9	3.6	4.1	3.8	3.4	3.0
ET correction		mm/day	2.5	3.6	4.7	6.7	5.4	4.1	3.9	3.6	4.1	3.1	2.7	2.4

(STATION: HENZADA)

ETo by PENMAN METHOD

Item			Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
t mean		°C	23.3	24.8	28.7	30.4	29.9	27.3	26.9	27.1	27.4	27.5	26.5	23.9
ea	(1)		28.6	31.2	39.3	43.5	42.2	36.2	35.3	35.8	36.4	36.6	34.5	29.6
RH mean	(2)	%	71	62	58	60	70	90	92	83	87	83	79	72
ed	(3)=(1)x(2)		20.3	19.3	22.8	26.1	29.5	32.6	32.5	29.7	31.7	30.4	27.3	21.3
(4)	(1)-(3)		8.3	11.9	16.5	17.4	12.7	3.6	2.8	6.1	4.7	6.2	7.2	8.3
U2	(5)	km/day	27.1	38.6	38.6	81.1	46.3	57.8	38.6	38.6	42.5	27.1	38.6	42.5
fu	(6)		0.34	0.37	0.37	0.49	0.40	0.43	0.37	0.37	0.38	0.34	0.37	0.38
1-W	(7) alt.=10m		0.28	0.26	0.23	0.22	0.22	0.24	0.24	0.24	0.24	0.23	0.24	0.27
(8)	(4)x(6)x(7)	mm/day	0.79	1.14	1.40	1.88	1.12	0.37	0.25	0.54	0.43	0.48	0.64	0.85
Ra	(9) lat.=18°N	mm/day	11.6	13.0	14.6	15.6	16.1	16.1	16.1	15.8	14.9	13.6	12.0	11.1
n	(10)	hr/day	9.3	10.2	9.3	9.5	7.2	4.5	5.1	3.8	5.8	7.4	7.7	8.8
N	(11) lat.=18°N		11.1	11.5	12.0	12.6	13.0	13.2	13.1	12.8	12.3	11.7	11.2	11.0
n/N	(12)		0.84	0.89	0.78	0.75	0.55	0.34	0.39	0.30	0.47	0.60	0.69	0.80
(13)	α=0.25		0.50	0.52	0.48	0.47	0.39	0.32	0.33	0.30	0.36	0.41	0.45	0.49
Rns	(13)=(9)x(13)		5.8	6.8	7.0	7.3	6.3	5.2	5.3	4.7	5.4	5.6	5.4	5.4
f(t)	(15)		15.2	15.7	16.5	16.7	16.7	16.1	16.1	16.1	16.1	16.3	16.1	15.4
f(ed)	(16)		0.20	0.21	0.18	0.16	0.13	0.11	0.11	0.10	0.11	0.13	0.15	0.20
f(n/N)	(17)		0.86	0.90	0.80	0.78	0.60	0.41	0.45	0.37	0.52	0.64	0.72	0.82
Pnl	(18)=(15)x(16)x(17)		2.6	3.0	2.4	2.1	1.3	0.7	0.8	0.6	0.9	1.4	1.7	2.5
Rn	(19)=(14)-(18)		3.2	3.8	4.6	5.2	5.0	4.5	4.5	4.1	4.5	4.2	3.7	2.9
W	(20)		0.72	0.74	0.77	0.78	0.78	0.76	0.76	0.76	0.76	0.77	0.75	0.73
W·Rn	(21)=(19)x(20)	mm/day	2.3	2.8	3.5	4.1	3.9	3.4	3.4	3.1	3.4	3.2	2.8	2.1
ETo	(22)=(8)+(21)	mm/day	3.1	3.9	4.9	6.0	5.0	3.8	3.7	3.6	3.8	3.7	3.4	3.0
ET correction		mm/day	2.5	3.2	4.1	5.1	4.2	3.1	3.0	2.9	3.1	3.0	2.7	2.4

APPENDIX D-8 COST ESTIMATION

UNIT COST OF DIVERSION DAM

1 Dam body

The unit cost of the diversion dam of the South Nawin Irrigation Project is applies for the diversion dam body. Above unit cost is used from the interim report of above project, Nov., 1979.

24,253,000 Kyat/1,600 m = 15,158 Ks/m

(say 16,000 Ks/m)

2. Intake facilities per place

	Qunt'y	Unit	Unit Cost (ks)	Cost ('000ks)
(1) Fish Rudder				
Earth works	969	cu.m	15.15	14
Concrete works	336	"	392.40	131
R. iron bar	3.4	ton	6,570.00	22
Total				167
(2) Intake Works				
Earth works	7,709	cu.m	15.15	116
Concrete works	703	"	392.40	275
R. iron bar	49.2	ton	6,570	323
Total				714
(3) Slope Protection				
Earth works	12,708	cu.m	15.15	192
Concrete works	903	"	287.80	259
R. iron bar	63.2	ton	6,570	415
Brick works	888	sq.m	35.9	31
Total				897
(4) Abutment Works				
Earth works	553	cu.m	15.15	8
Concrete works	37	"	287.8	10
R. iron bar	1.9	ton	6,570	12
Total				30

	Qunt'y	Unit	Unit Cost (ks)	Cost ('000ks)
(5) Gate				
Gate 2.0 x 1.6	2	pcs		347
Gate 1.2 x 1.2	1	pc		116
Screen 3.5 x 2.2	2	pcs		66
Screen 1.2 x 1.5	1	pc		8
Total				537
Grand Total				2,345

3. Gate for spill (Gate length = 153 m)

(1) Dam Body				
Earth works	18,358	cu.m	15.15	278
Concrete works	6,221	"	287.8	1,790
R. iron bar	16.2	ton	6,570	106
Rip lap	9,600	sq.m	26.1	250
Sheet pile (l = 8 m)	150	m	900	135
Total				2,559
(2) Pier Works				
Concrete works	1,504	cu.m	392.4	590
R.iron bar	30.1	ton	6,570	197
Total				787
(3) Gate				
Scouring sluice gate (12.8 m x 2.9 m)	2	pcs		3,900
(4) Gate for spillway (31.8 m x 2.7 m)	3	pcs		15,428
O & M bridge	153	m	21,000	3,213
Step	6	pcs		309
Emagency gate		LS		2,314
Total				25,164
(5) Operation Room & Control Equipments				
Operation room	288	sq.m	1,900	547
Control equipment		LS		6,429
Total				6,976

	Qunt'y	Unit	Unit Cost (ks)	Cost ('000ks)
(6) Engine Room				
Engine room	257	sq.m	1,100	282
Total				282
(7) Temporary Works				
15 % of (1) to (6)				5,365
Grand Total				41,133

Unit Cost 41,133,000 Ks/153 m = 268,843 Ks/m

Say = 269,000 Ks/m

APPENDIX BREAKDOWN OF PROJECT COST
(South Nawin Irrigation Project)

(Unit: '000 Kyats)

	Main dam	Diversion dam	Irrigation & drainage systems	Total
1. Civil works				
(1) Preparation	5,515	2,183	-	7,698
(2) Main Dam	55,150	-	-	55,150
(3) Diversion Dam	-	21,830	-	21,830
(4) Irr. & Drainage Systems	-	-	58,406	58,406
(5) Pre-Engineering	607	240	584	1,431
Sub-total (per ha)	61,272	24,253	58,990	144,515
2. Compensation	1,310	145	-	1,455
3. Corstruct'n Equip't	59,962	25,698	37,690	123,350
4. Agriculture Develop't	-	-	5,300	5,300
5. O & M Cost	975	386	939	2,300
6. Project Facilities	1,569	621	1,510	3,700
7. Project Adminst'n	7,140	2,826	6,874	16,840
8. Consut's Service	4,880	4,880	2,440	12,200
Total (1 to 8)	137,108	58,809	113,773	309,690
9. Contingency (15 %)	20,502	8,801	17,007	46,310
Total (1 to 9)	157,610	67,610	130,780	356,000
10. Price Escalation	31,520	13,520	26,160	71,200
G. Total	189,130	81,130	156,940	427,200
(1,000 US$)	(29,368)	(12,598)	(24,370)	(66,335)
(US$ per ha)	(1,161)	(498)	(963)	(2,621)

Unit Cost of Irrigation and drainage aspect

(58,990 + 37,690 + 5,330) ÷ 25,300 ha = 4,032

Say 4,100 Kyat/ha

COST ESTIMATE OF DIVERSION DAM

Project	C.A (sq.km)	Q (cu.m/sec)	Gate Width (m)	Cost Estimate ('000 Ks) Intake etc.[1]	Gate etc.[2]	Body@16 Length (m)	Body@16 Cost[3]	Total
1. Taunyo	52.1	172	15.6	2,345	4,196	24.4	390	6,931
2. Bawbin	165.8	547	49.7	2,345	13,369	10.3	164	15,878
3. Gamon	51.8	171	15.5	2,345	4,169	44.5	712	7,226
4. Minhla	77.8	257	23.3	2,345	6,267	36.7	587	9,199
5. Kadinbilin	132.9	439	29.3	2,345	7,881	30.7	491	10,717
6. Thonze	88.3	291	9.4	2,345	2,528	110.6	1,769	6,642
7. Okkan	88.3	291	9.4	2,345	2,528	70.6	1,129	6,002
8. Mamya	100.0	330	30.0	4,690	8,070	150.0	2,400	15,160
9. Mankathu	115.8	382	34.7	4,690	9,334	85.3	1,364	15,388
10. Nankdthu	265.2	875	79.5	4,690	21,385	100.5	1,608	27,683
11. Mezili	39.1	129	23.5	2,345	6,321	36.5	584	9,250
12. South Kun	44.9	148	13.5	4,690	3,631	86.5	1,384	9,705
13. Kyetpaung	126.8	418	38.0	4,690	10,222	72.0	1,152	16,064

Note: C.A Catchment Area

Q Flood discharge = CA x 3.3 cu.m/sec/sq.km.
The specific discharge of 3.3 cu.m/sec/sq.km is estimated based on data observed on the Kadinbilin river.
The gate width is carculated based on the maximum velocity of 2.0 m/sec at the gate and gate height of 5.5 m during flooding period.

1/ This is including intake facilities, fish rudder, slope protection works and abutments.

2/ Slide-gate type.

3/ The unit cost of the South Nawin Irrigation Project is applied.

COST ESTIMATE

(Unit: '000 Kyat)

Name of Irrigation Project	Dam						Diversion Dam		Irrigation & Drainage System		Land Consolidation		
	Embankment Vol. ('000 cu.m)	Cost: Earth Works	Other Earth Works (13%)	Spillway (25%)	Intake (8.4%)	Sub-total 1 to 4	Length (m)	Cost	Area (ha)	Cost @K4,100/ha	Area (ha)	Cost @K2,800/ha	Total 5 to 8
1. Wegyi	2,964	44,904	5,837	11,226	3,771	65,738	-	-	33,000	135,300	33,000	92,400	293,438
2. Taunyo	1,796	27,209	3,537	6,802	2,285	39,833	40	6,931	18,900	77,490	18,900	52,920	177,174
3. Bawbin	3,446	52,206	6,786	13,051	4,385	76,428	60	15,878	13,000	53,300	13,000	36,400	182,006
4. Gamon	2,039	30,890	4,015	7,722	2,594	45,221	60	7,226	4,500	18,450	4,500	30,240	101,137
5. Minhla	1,782	26,997	3,509	6,749	2,267	39,522	60	9,199	8,000	32,800	8,000	22,400	103,921
6. Kadinbilin	687	10,408	1,353	2,602	874	15,237	60	10,717	19,000	77,900	19,000	53,200	157,054
7. Thegaw	1,318	19,967	2,595	4,991	1,677	29,230	-	-	12,900	52,890	12,900	36,120	118,240
8. Thonze	1,826	27,663	3,596	6,915	2,323	40,497	120	6,642	39,500	161,950	39,500	82,600	291,689
9. Okkan	387	5,863	762	1,465	492	8,582	80	6,002	31,000	127,100	31,000	86,800	228,484
10. Nyangging	442	6,696	870	1,674	562	9,802	-	-	1,400	5,740	1,400	3,920	19,462
11. Buyo	1,753	31,869	3,186	6,373	2,230	43,658	-	-	4,900	20,090	4,900	13,720	77,468
12. Thaledan	439	6,650	864	1,662	558	9,734	-	-	2,500	10,250	2,500	7,000	26,984
13. Alonmoyak	2,385	43,359	4,335	8,671	3,035	59,400	-	-	8,000	32,800	8,000	22,400	114,600
14. North Kun	1,882	34,214	3,421	6,842	2,394	46,871	-	-	5,300	21,730	5,300	14,840	83,441
15. Phatshin	1,392	25,306	2,530	5,061	1,771	34,668	-	-	3,000	12,300	3,000	8,400	55,368
16. Mamya	5,699	103,607	10,360	20,721	7,252	141,940	180	15,160	8,500	34,850	8,500	23,800	215,750
17. Kyanyin	3,755	68,265	6,826	13,653	4,778	93,522	-	-	16,400	67,240	16,400	45,920	206,682
18. Mankathu	3,960	71,992	7,199	14,398	5,039	98,628	120	15,388	16,700	68,470	16,700	46,760	229,246
19. Nankathu	3,403	61,866	6,186	12,373	4,330	84,755	180	27,683	20,000	82,000	20,000	56,000	250,438
20. Gyat	3,512	63,848	6,384	12,769	4,469	87,470	-	-	20,000	82,000	20,000	56,000	225,470
21. Mezili	2,866	52,103	5,210	10,420	3,647	71,380	60	9,250	19,000	77,900	19,000	53,200	211,730
22. South Kun	2,619	47,613	4,761	9,522	3,332	65,228	100	9,705	19,400	79,540	19,400	54,320	208,793
23. Kyetpaung	1,269	19,225	2,499	4,806	1,614	28,144	110	16,064	2,000	8,200	2,000	5,600	58,008

APPENDIX D-9 COST ESTIMATE FOR PILOT LAND CONSOLIDATION

Description	Total ('000 K)	Foreign Currency ('000 K)	Local Currency ('000 K)
1. Irrigation & Drainage Facilities			
Pumping Station	8,600	8,100	500
Check-up Weir	2,000	1,200	800
Irrigation & Drainage Canals	5,200	300	4,900
Sub-total	15,800	9,600	6,200
2. Land Consolidation (3,000 ac)	6,000	1,800	4,200
3. Compensation	500	-	500
4. Construction Equipment	2,000	2,000	-
5. Agri. Development	6,300	6,300	-
6. O & M Cost	1,600	1,000	600
7. Project Facilities	2,100	100	2,000
8. Engineering Fee	5,100	4,600	500
Total	39,400	25,400	14,000
9. Contingency (15%)	5,900	3,800	2,100
10. Price Escalation (20%)	9,000	5,800	3,200
Grand Total	54,300	35,000	19,300

NOTE: Based on the South Nawin Irrigation Project.

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