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MONTH Inflom (MC) Fal inflom (V Montf Infloh (MC)		AN 40	+ Е6 ∪.0 ∪.0 Н.КК S 0.0	РАК 0.0 МАК 0.U	АРН 0.0 4РК	үдү 192.5 Уду		JUL 24.465 JUL 0.0	AUG 28.540 28.540 α.00 υ.0	5EP 16.699 5EP 0.0	667 9.815 0.0 0-0	1.679 1.679 Nov 0.0	0-0550
INFLON (MC) FAL INFLON (V MGNTH INFLON (MC) INFLON FR	M) C	0 T CN +0	0-0 + с. И 0. J	0.0 MAK D.U	0.0 НЧА И.U	2.591 ۲۷ ۲۷	15.342 . NUL	24.46b JUL 0.0	28-540 AUú U-0	960.01 920	9.815 100 0-0	1.479 NOV 0.0	0-0 730
FAL INFLUM IU MGNTF Influm (MG. Tal Influm fr	DIVERS () ()	I CN HO	КК S ← Е И Q • J	MAK 0.U	N44 9.0	> ti +	ייעא. רייעא	3UL 0.0	ن م م د	5EP 0.0	10CT 0-0	0°0	
ראו ואדרטא וט אנאדר אנאדרטא (אינ י דאר זארנטא דא	DIVERS	AN HO	іНК S + Е Ы Q • J	MAK 0U	0.0 20	۸¢۲	NUL	JUL 0.0	ΑUĠ U- U	SEP U.O	0-0	0 ° 0	
MGNTH- Irfluh {MG. Tal Influh fr	2	7	+ te IS Q • J	MAK 0U	9.0	メギト	NUL	JUL 0.0	ΔUG U-0	5EP U.O	0-0	0-0	0-0
ואדרטא {אכ. ` דאנ זארנטא דא			0°0	0-0	0.0			0.0	0-0	0.0	0-0	0-0	0-0
Tal įnflum fk						0-0	0. 0						
	CH CAI	CHMENT	анга										
HUN1H		JAN	ትቲც	НåК	APH	MAY	NUL	JUL	ÂUG	SEP	001	NON	DEC
INFLOW (364)		0.0	ų•u	0.0	n.u	2.541	15-342	24.400	24.540	10.659	910-4	1.679	0.258
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			DEL 5+1 0-244		DEL	0.244			0+0 0+0		DEC	0.244								
			NUV 33.4 1-587		NGV	1.587			0.U		VON	1-587								
			GCT 195.3 9.279	•	0C T	612-6		k L	0.0 0		00.7	4.2.4					•			
			5EP 331-6 15+750		SEP	15.750		1	35F		SEP	U 57 - 61								
			AUG 564+U 26+982		AUG	284.42			0.0		AUG	20.982						\$		
			JUL 627-2 21-385		JUL	21.885		:	ייו ייו		JUL	21-485								
			JUN 908-91 14-504		NDL	404.41			NUL		Nnr	14-504								
			маү 264.7 2.138		МАҮ	4.LJ4			M4Y U.U		MAY	661.5				·		•		
			Ark 2.5 U.U		APR	0.0			44K U.U		HdA	0.0								
			MAR 2-6 0-0		Ман	0*0			NAH U.U		MAR	0.0								
		11	FES 0.0 0.0		FEB	0 . 0		HGKKS	FEB 0.0	T AKLA	Felt	0 . 0								
		{ tta GY1	1-4-0 VVr	SERVOIR.	VVF			VERSICN	0°0	CATCHAEN	212	0.0				,				
		r sekvClF	(MM) (MUN)	H. TU RE		(MDP)		10 11 11	(HCH)	J. FRCM		(нсн)	•							
74 14 2		I N'LEA TO RESERVOIR FOG GYAT	MCNTH Rainfall Cischarge	LGTAL INFLOW TU RESERVCIR.	HUNH	INFLON		TUTAL INFLOW TO RIVERSICA WORKS	MUNIN	ІСТАК ТАРАВИ ЄКСМ САТСИЛЕМТ АКТА	MCNTH	HOT JN1								
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τελκ 10 Ιλίίιμ Ιυ κςδίκνςικ ≄3* GYAT	MJNTH Fainfall UISCHARGE	TUTAL INFLOM FU RESERVUIR	HCN TH	INFLUH		ICTAL INFLOW TO DIVERSION WORKS	HUNH	INFLON	TUTAL INFLUM FROM	PCN TH	INFLOW				ŀ		-
RCSLKVC	н L (мч) E (мцү)	10~ LU RI	г	H (MCM)		LUN TU D		H (HCP)	104 FKOH	, H	(HOIN) HI		*	,			
14 +94 GY	148 5 1 0 0	Ł SŁHVIJI R	JAN	0.0		IVERSION	NAL	0.0	CATCHMENI	NEL	0.0	•	٠	, •	•		
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ş	MAY 262-1 2+179		МАΥ	2-079			YAM	n-n	٤	МАҮ	2.079	•					
	102 1,-292 1,-396		NNF	14.396	1		NUL	n•n		NOL	14-396						
	1052-12 622-5 70L		JUL	21.550			JUL	0-0		יער	21.550						
	AUG 563-0 26-780		AUG	26.780			AUG	0•0		AUG	26-780						
	5EP 329+1 15-632		SEP	15-632			SEP	0.0		SëP	15.432						
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		DEC 5+9 0+279		DEC	0.279			DEC	0-0		DEC	0.279							
		60V 38.2 1.815		NON	1.815			NUN	0.0		ADN	1-815							
		CCT 223-3 10-609		001	10.609			0C1	0.0		1 70	10.609							
		SEP 379-1 18-007		SEP	100.01			SEP	0-0		SEP	18.007							
		AUG 649-4 30-849		٩U٩	945-05			δUδ	0-0		AUG	10.849							
		JUL 117-0 28-249		JUL	24.249			JUL	n.u		306	24.249							
		JUN 541.92 16.543		NUL	10.583			NUL	0.0	•	NUL	16.24\$							
ı		MAY 502-7 3-261		МАҮ	102.6			МдҮ	۲.9	•	YAY	3.261							
	,	APH 2.9		АРК	0-0			APR	0.0		ላ ሥ R	0.0			•				
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	K #\$* GY	144 2-4 0-0	SLHV01K	NAL	0-4		VI KS LUN	NVF	0.0	САТСНМЕN	NAL	0-0							
	RES4 8 VO 1	(144) (MCM)	טא גר ארי		(M M)		QH TU CT	_	(HC H)	ND FROM	. ~	(MCM)							
	וארנוא וט גבאנגעטוג ≠** GYAT	HUNTH Rainfall Discharge	נסנאר זעררחי נה אבצראיסוא	40VTF	1 A F L UM	t	נכנייר ויידרטא נה כנגו איזנטא אמאייצ	. MCNTH	INFLOW	TOTAL INFLUY FROM CATCHMENT AREA	HINDM	INFLOW							
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(INPLUM TU RUSERVOIR *** GYAT	LSENVOIR	140 era 1	11										
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0	TLIAL INFLUM FU KESEKVUIK	W FU RES	EKVDIR			e •								
0	41 NDA		NAL	Ftu	MAR	APR	НАҮ	NUL	JUL	AUG	SEP	00.1	NON	DEC
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(TCIAL INFLUM TO DIVERSIUN WORKS	10 01 "	VERSION 1	ROAKS										
S	HINDW		NVL	н Н Е Р	нан	АРК	ЧАТ	NNr	JUL	AUG	SEP	UCT	NON	DEC
0	INFLOH	(MCM)	0-0	U.U	0-0	0.0	0.0	n•n	0.0	0°0	0.0	U •U	0.0	0-0
0	Tctal influw from catchment	JW FRGM (CATCHMEN	F AHLA				•						
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0	401-10H	(HCH)	0.0	(r * ()	0-0	0.0	844.2	146.61	24+213	24.56	10.076	9-625	1.6J1	0.259
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				DEC >-4 0-255		DEC	0+255		UFC.	0*0			06C	0-255								
				NOV 34.9 1.658		VON	1.658		n cu	0-0			NON	. l.658	•	•						
				061 204 - L 9 - 696		201	9-696		۲. ۲.	0-0	1		act	9- 696								
				5EP J46-5 16-457		SEP	16.457			0-0	2		SEP	16.457	•							
				AUG 593.6 28.194		AUG	461.82			906 0-0			AUG	28-144								
				JUL 655.3 23-892		יוטר	23-892						JUL	23. 892								
				JUN 531.8 15.156		NUL	15-156					•	NUL	15.156	-	-						
				MAY 27446 2490		MAY	2-+90			наү		;	МАҮ	2.440	•							
				474 2.7 0.0		АРК	0.0	5		APK		-	АРК	n•n								
				HAK 2.1		MAK	0-0	1		HAH HAH	•	، د	MAR	0.0	•		,					
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	•		H 10A H 15	(M4) (VCM)			(MCM)		10 11			HRGW		(MCM)	 							
			ואינטא זט אנטנאטוא איא פֿאַען	MUNTH Rainfall Discharge	TELAL THEIDE TO DECEMBLE	PGNTH	INFLOW	ſ	IGTAL INFLOM TJ DIVERSIUN WORKS		STCH N	. TUTAL TNFLOT FROM CATCHMENT AREA	HCN IH	INFLUM	t							
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ICIAI INFLUA IN HESERATINA FCATE JAN FE-4 ANN ATH MAY JUN JUL AUG SEP UGT PAGNITE JAN FF-4 ANN ATH MAY JUN JUL AUG SEP UGT INFLUM I JUN I JUN JUL AUG SEP 001 INFLUM I LEVEN 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	0 0	NINTH 4.4.1.4.44.1.4. UI 3.6.444.6.4.44		146 5.5 0.0	FEB 0.0	НАК 2.5 0.0	APK 2.5 U.U	МАҮ 253.7 1.811	JUN 1-144 1,1-1	JUL 6J1-U 20-021	AUG 544-3 25-850	56P 317-7 15-093	461 187-2 8-842	NUV 32.0 1.521	× • • •
FCM1+ JAN F-1 AN AN JUN JUN JUL AUB SEP UG1 Injeluk MCF01 0.0 J.0 D.0 JUN JUL AUB SEP UG1 Injeluk MCF01 0.0 J.0 D.0 JUN JUL AUB SEP UG1 Injeluk JAN F11 MAN APA MAY JUN JUL AUG 24/02 MONTH JAN F11 MAN APA MAY JUN JUL AUG 24/02 24/02 MONTH JAN F11 MAN APA MAY JUN JUL AUG 24/02	Ö	ICIAL INFLUA D	ul RES	нтогн	-										
Injuluk (mCrt) 0.0 0.0 0.0 0.0 1.011 11.001 20.021 25.156 15.004 0.00 TUIAL INFLUE 10 100 100 100 100 100 0.0 0.0 0011H JAN F1h Max April Max Juk J	0	HCNIH		NVF	Frd	MAR	АРН	MAY			AUG	SEP	UCT	0v	>
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TUTAL IAFLUM IU DIVLMSTIM MGMAS MUL JAN FTN MAR APA MAY JUN JUL AUL SEP OCI MDNTH JAN FTN MAR APA MAY JUN JUL AUL SEP OCI IAFLOM (4LP) 0.0 D.0 0.0 U.0 U.0 U.0 U.0 0.0 OC IAFLOM (4LP) 0.0 D.0 0.0 U.0 U.0 U.0 U.0 U.0 OC OC IAFLOM HUH D.0 U.0 U.0 U.0 U.0 U.0 U.0 OC OC IAFLOM HUH D.0 U.0 U.0 U.0 U.0 U.0 OC OC IAFLOM HUH D.0 U.0 U.0 U.0 U.0 U.0 OC OC IAFLOM HUH D.0 U.0 U.0 U.0 U.0 OC OC IAFLOM HUH D.0 U.0 U.0 U.0 U.0 U.0 OC OC <td>o</td> <td></td>	o														
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			56P 96-0	45.4 L.2	140-0		56P 120+U	124.5 1.5 0-486	; ; ; ;	SEP	0.0	0°0		56P 0-0		0.0	•	5EP 0.0	0.0	0*0			SEP	0.527	•	5 EV	j ;
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			10L [42.8	1.2.1 1.7	U.U62		JUL 173.9	1.1.3		301	0.0	0.0		JUL 11.0		0.0 0		JUL 0-0	0 0 0	0.0			JUL	0.132		91	5
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	גראא ו	FIELU AATER	417.14 417.14	E KAINPALL Femerie	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	FIELD MATER	41 NOM 11 CROP	E KAINFALL F.M.K.	N=X+4+		EI CKOP	п карлани + + + + 	Field Mater	MUNTH	EI LKUP (Rainfall	T. T. K.	FIELC MATER	MÜNTH MÜNTH	E AAINFALL	1 - Z - Z - Z - Z - Z - Z - Z - Z - Z -		TUTAL FIELD	H1 N0 Y	0 E H AN		LARIGATED FAUP UIVEASILN ACHAS	
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	LU ATTH VEDURTMINT UF PADUY (MET) P+P 	C13 AATIM VE JUNIT UF PADJOY (MET) PTP V-INTE JAN FEB MAK APM MAY JUN JUL J	LU ATIR -ETUIRIMINT JF PADUT (MET) PFP VINTE	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	ATH - ETURKINIVI JF PADUV (AET) PTP ATH - ETURKINIVI JF PADUV (AET) PTP VANT CUMP (14) 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	(1) ATH # GUNKHWY GF PAUDY 1411 PTP (2) ATH # GUNKHWY GF PAUDY 1411 PTP (1) ATH # JUH##H OF PAUDY 1411 PTP (1) ATH # PUD (1) ATH # PUD

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YEAR 4	FIELU HAILK KEJUIKEKENI UL	FUNIH FUNIH F.W.H. C F.W.H. C	æ	MUNTH E) CRDP	F 4215FALL - F.H.X. 5.K.U.	FIELD MATER REUNIRLPLAT OF PADDY (DRY) PIP	PUNIH ET CKCP 1 E RAINFALL {	F. X. K.	FIELD AATER REJUTREPLAT OF	PONTH FI CRUP 1 F RAINFALL (F = F = K	FILLN WATER	FUNTH ET CHOP			TUTAL FLELD HATER RILUTHINENT	MGNTH	III HAND (MCM)	INFIGATED FROM DIVENSION MORKS	PON TH	SUPPLEMENT (ACM) Deficiency (Acm)
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		d+d (1)	44K U.U			Ĵ9+4 (:	84K 0.0	0.0	d+d [YAQ]	M.N. 1422	2.61 139.7 2.001	5 P+GC	-		081.6	(DKY) P+GC	Мак 1-1-2	1.1.0 2.022			Нан	247-0.		HAR	0.U 10.142
		4+4 (1)») YUUA	5 Lb			PADUY14E51 P+6C	Е <u></u> ЕВ 0. 0	0.0	~	Ftb 154-0	0.0	GRGUNDNUT	FEB A L J		1-100	ULANS (DH	61.0 61.0	0.10 0.10 496.0		I	fred	24.194 1	, iKS	⊬t b}	0.0 20.194
			0.0 0.0	••• •••	0.0		0°0	0.0 0.0 0.0	GF	JAN 127-4	5.1 122.3 4.368		14N 73.H	4.6	066-1		3.14 HI.5	10.9 10.9 8.815		AITH REJUIKENENT	, 14.8	21.113	104 NULS	NVI.	0.0 21.113
		1.JUIREMLNT UF	(14)			RF autkeriat DF	(мч)	(MM) (MM) (MCM)	KLUUREYENT	(WW)	(MM) (44) (HC4)	PEULIKEHENT DF	(MN)	(141)	(HCH)	RENUTREM	(ビス)	(MC M) (MC M)				(HCH) Z	нэмга, ман		(1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-
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		۷0۷ ۲۰۷	0-0 0-0	U.U		NUV 0.0	0.0	0-0		V0V	59.3		NUV 24-3	23.1	0.139		NUV 24.3	23°1 1°2 0°139	•		אטא	245-5		NON	5
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		56₽ 90•6	95.4 1-2	0.041		56P 120.0	124-5	U.486		56P 0.0			56P 020		0-0		\$εμ υ.Ο	0.0			SEP	0.527		SEP	
		141-U	1.1	0 • 0 • 0		AUG 140-0	141.7	0- 733		900 910 9	0 0 0 0 0 0		AUG 0-0		0-0-0		406 U-U	0-0-0-0			AUG	0-793		AUG	0
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	(H4 (13M)	<u>г</u> аң U.U		0.0	4ET1 0+31	44K		0.0	(מאלו ויוּף	-	140-01	GKQUNUTS P+ċ Ċ	MA.A 15-0			11EANS (URY) P+GC	HA4 19.2				HVH.	148-01		МАК	: (
•	F JAUUY			5	- PAUUYI	1.0		;			0-941 UD4-2 UD4-2		FEU 67.2					.9		HENT	Η c d	20-144	5 M H S	F F G	
	KeMENT U	144	0.0	0.0	REPENT U	4VC 0.0	0.0	0.0	KEUDIREMENT CF' PADUY	JAN 121-4	122.1	אפטטוגראנאו טר	JAN 13-8		1-940	REQUIREMENT OF	4 V V V 4 • 1 E	4.2 71.4 8-845		AJER KEWJIREMENI	NVſ	0(2.15	IVEAS ION	NEL	5
YEAN 1	לוגניט המופעונאנאנאנין ער ממוטע (שנד) אויי		L AJINFALL (M') FoneR. 1md)		FILLG AATER REJUIREPLAT NF PANNY{MET} #+3C	MINTH PL CRUP (44)	FALL H.K.		FIELU HAILE REVUI	MUNIH EI CRCP		רנון אסוגא אניטוו	MGNTH EI CROP (44)			דונני אזדנא אפטטו		К 24184244 (34) Г.8.8. (43) Н.8.0. (953)		101AL F16LD 4AJER	HINDH	DEMAND (YCH)	14-1Galed from Biversion Bouks	HINDA	CHOULTNENT (VCM)

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		0=0 0-0	000	0-0			0,0 0,0 0,0 0,0 0,0 0,0		DEC 159-6	155+2		DEC	4 4 4 7 4 4 7 4 4	4 899		DEC 46-2	J.4 42.8	4.899			960	15.340		DEC	0°0 15.340
		0.0 0.0	0.0 0.0	0.0		0.0 VUV	0°0 0°0 0°0		NUV 86.1	61.1 2.182		NON VON	21.7	0.295		NUV 24-3	9-7 2-12	0.295		i	A D N	2.773		۸DV	0.U 2.173
		UCT 14.9	14.7	0-006		UCT 18 - 6	18.4 U.2 U.12		0.0 0.0	0 0 0 0 0		0°1		0.0		0CT 0.0	0.0	0-0		4	ncı	0.078		נור ג	U.U 0.U/B
		SFР 96.6	95.4. 1.2	0-041		SEP 126.0	124-5 1.5 0.486		56P 0.0	0.0		SEP S. S		0-0		SEP U.O	20.0	0.0		1	SEP	U.527		SEP	0°0 0.52 <i>1</i>
		AUG 141.0	139.4	0-060		AUG 190.0	187.7 2.3 0.733		0.0 0.0	0.0 0.0		AUG		0-0-0		AUG 0-0	0.0	0.0			AUG	c 61 • 0		۵Uu	0.0 0.793
		JUL 143.8	[+2-] [-24]	0.062		JUL 1/3.9	171.8 2.1 0.471		. مر م. م	0.0.0		JUL.	200	0.0		JUL 0.10	00	0.0			JUL	0-732		JUL	U.U U.132
	•	1.161	140.d 2.3	U. U82		202.2	202-7 2-5 0-791		NUL 1.0	0 0 0 0 0		NUL		0-0-0		NUL 0.0	00.0	0.0			NUL	L78.U		NOr	0.0 0.4/3
		MAY 105.7	104.4 1.3	0.045		MAY 117.5	110.1 1.4 0.453	1	744 U-U	0-0-0		MAY		0.0		MAY May	200	0*0			MAY	0.498		МАҮ	0-0 U-498
		4P4 0.0	0.0	0.0	ļ	АРН U.U	, , , , , , , , ,		474 21-9	24.2		АРК		0.0		APK D_D	222	0•0			АРН	469-0		АРК	0-0 256-0
	6f) P+P	HAK U.U	7.0 00	0.0	T1 P+6C	44K U.J	0.0 0.0	10871 P+P	42. J	140.1 5.005	15 P+ůC	MAR		3-817	BEANS (DRY) P+GC	MAK	1.5	2.051			MAR	10-473		MAR	0.0 10.873
	PAUUY (#EE) P+P	FI-B 10.0	0.0	0.0	PAUDY[NET] P+GC	ЕЕн 0.0	0 0 0 0 0	~	FL8 154.0	154.U 5.500	GROUNDNUTS P+GC	F F B		7.100	BEANS (I)	FEU ∧ĭ_0	0-19	456°9		Lv.	F E U	20-194	รุ่มห	H. B	0.0 20.194
		14N 0.C	0.0	0-0	PENT OF	14N 0.0	0.0 0 0	VENT CF	127-1	- 121.1 121.1 191	HENT OF	NAL	9 70 J	8.013	FMENT CF	JAN Sile	1. L	8,849		Recutken	NVG	605-12	ENSION M	NAL	0°0
	NATLR NLJUTKEMENT OF	(66)	(+>)	(HCH)	RLUUIREPENI OF	(64)	(47) (144) (146 M)	KCUUIRE	(n F	(H)+)	KEULIRE			(WOW)	keuulri	(мч)		(HCH)		U HATER I		(MOM)	FRON CIV		(MCM) (MCM)
YEAR, 2	יונ				FIELD MATER	PUNTH E1 CRUP		FIELD WATER REGULARENT	FONTH	п халтар 	FIELU MATER REULIREMENT UF	MONTH	E RAINFALL		FIELU WATER REUUIRFMENT OF	HINDA HINDA	E HAINFALL F.H.R.	н.К.Q.		TOTAL FIELD WATER RECUTREMENT	HINDH	DIMAND	Ikhicated from civension mukks	MCNTH	SUPPLEMENT SEFICIENCY
λί	-		-			•	-	-			-	,			,										
0	0	L	0	C)	0	0	0	0	0	(5	0	(o	0	0		0	0		0	0	0	0

REJUIREMENT LF		PADUY (MET) P+P		*								
144 0.0	00-0 200-0 1	0*0 ₩2¥	AVR U.U U.U	MAY 1421	1.121 1.121	JUL 145-8 142-1	4UG 141-U 142-4	56P 96.6 91.6	LCT 14-9	200 200 200 200	DEC 0.0	
0.0.0	0°0°.	0*0 0*0	0.0	1.5 1.15	2.13 1.182	1.7	1.7	1.2	0.2	0 0 0 0 0	0-0	
KENUIREPENT UF	PADUY{h1	PABUY{WET} P+6C									9 9	-
14V 0-0	РЕм 0.0	44K 0-0	0*0 0*0	447 117-5	101 2.4462	JUL 173.9	AU6 190.0	5EP 126.0	0C1 14-6	0-0 0-0	UEC 0.0	
0-0 0-0 0-0	0°0°0 0°0°0	0.0 0.0	0 0 0 0 0 0	116.1 1.4 0.453	207-11 207-1	1.11.8 1.2 1.7	187-741	1.5	10.2	0000		
FILLO WATER REGULAREPLAT OF	P ADUY (1	d+d [YXU]	•			d						
5°277 (MU) NYF	FLU 154.0	HAK 142.3	анк 21-9	MAY U.U	0-0 10N	30L U.O	AUG 0-0	58P 0-0	0-0	VUN 7 - 78	DEC 169.6	
(MCH) 4.1 (MCH) 123.J (MCH) 4.405	0.0 15:-0 004-4	2.0 1.0.1 5.002	1-6 26-3 1430	0-0 0-0	ດ.ດ ດີດ ດີດ ດີ	00°0 00°0 00°0	0.00	0.0	000	24.2		
FIELD MATER REDUCREMENT DF	ดหมากมา	GRULNUNUTS P+GC) •			
1AU 73.8	1 LH 61.2	МАК 35. U	APR 0.0	4 A Y 1 - D	NDC	ากเร	AUG	St.P St.P	**	NUN	DEC	
•	0.0	33-4	0.0	200	200	000	200		000	202	3.3	
KEQUIKEMERT CF	<i>r.r</i> uu Heans ti	/./UU J.124 HEARS TURY) P+RC	0*0	د [.] د	0. 0	0.0	0-0	0.0		0.431	4.920	
IAN	 		904	2								
	0-10	19.2	0.0	0.0			0.0 • • •	56P 0.0	0.0	24.3	DEC 46+2	
(HM) 77-9 (HCH) 8-923	0-14 944-4	18.U 2.U54	0 0 0		0.0 7	0.0			000	20.5 3.8	3.3 42.9 420	
					•) 		;			
IUTAL FIELD MATER KCJUIKEMENI	E N I											
NY'N	674	11 A H	Чрн	MAY	NUL	JUL	νUG	SEP	001	NON	DEC	
(XCP) 21.3a5	20-194	10.376	8E6.U	U.498	678-0	0.132	U.745	0*527	U.U/8	193.	15.391	<u>ix 1</u> 134
F4UM DIVERSICA MCHKS	CKKS											
NAL	FLB	H¢₩ .	HdV	YAM	NUC	າດເ	AUG	Sep	UCT	V04	DEC	
SUPPLEMENT ("C") U.O OLFICIENLY ("C") 21,365	0-0-2	0-0 10-010	0*0 0*0	0.0	0.0	0.0	0.0	0-0	5.0	0 . 0	0-0	

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		010	0.0		0°0	0.000		DEC 159-6 4-2	155+5 5+552		0EC 46-2	3.5	4.923		DEC 40+2	3.2 43.0 4.923			DEC	5. 398		DEC	U.↓Ù 5.398
		2020	0 0 0 0		A040	0.000		NUV 86.7 24.1	62.6 2.237		70V	20.4	0.449		NOV 24-3	20.4 3.5 0.449			VDN	1 661.6		NUN	0. V 3. 135 1
	1	14.9 14.9 14.7	0.2 0.06		CC1 18-6	18.4 0.2 0.072		0.0 0.0	0-0-0		001	00	n-0		0.0	0,0 0,0 0,0			dc1	0.078		מרג	U.U U.U78
		56P 46.6 95.4	1.2		56P 126.0	124.5 1.5 0.486		SEP 0.0	0-0		SEP 0.0		0.0		5EP U.O	0.0 0.0 0.0			SEP	0.527		stP	0-0 0-521
	:	AUG 141.0 139.4	1.7 0.060		AUG 190.0	187.7 2.3 0.733		AUG 0.0	0.0		AUG	200	0.0		AU6 0.0	0.0 0.0			AUG	u. 193		AUL	0.0 0.793
	:	JUL 142.8 142.1	1./ U.U52		JUL 173.9	171.8 1.2 U.671		30.0 10.0	0.0		JUL. 0.0	00,00	0-0		10r 10r	0 0 0 0 0 0			ากก	1.132		JUL	0.4 0.732
-		191.1 191.1 188.8	2.5 V.UB2		JUN 203.2	202.7 2.5 0.791		2000 2007 3007	0°0 0°0		NUL	200	0-0		10N	0-0-0 0-0-0			JLN	618.U		MNr	0-0 0-1
	•	105.7 105.7	1.3 240.0			110.1 2.1 0.453		44Y 0.0 0.0	0-0-0		~ ~ (200			MAY 0.0	0 0 0 0 0 0 0 0			MAY	U.498	•	MAY	0.V 0.478
		0.0	0-0 0-0	- 1	4PK	0.0 0.0 0.0		АНК 27-9 1-6	26.3		APK 0.0	22	0-0		APR 0.0	0°0 0°0 0			APK	0.739		АЛИ	0.0
	п	00 10 10 10	0-0-0 0-0	11 0+60	MAR U.U	0.0 0.0 0.0	ዳሃ) ሥተ	42.J 242.J 2-U	010.4	15 P+66	MAR 45.0	0.1 0.55	4-424	BEANS LURY! P+GC	M4H 19.2	1.2 16-0 2-060			MAK	10-879		404	0.0
	PAUUT SHELL P+P	, 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.0	PADUYLAET1 P+GC	FE6 0.0	0 7. 0 7 0 0 7 0 0 7 0 0 7 0	PADUY (URY) P+P	FEB 154_8 0_0	5-500	640UN0NUTS P+60	FE8 67-2	0.01	1.700	BEANS (L	FI 15 61.0	0°19 0°19		NI	FLU	20.194	2,4,10	5 th	4-0 20.194
		200 200 200	0.0 0.0	*FAT UF	14N 0.0	с. 	EVENT CF	JAN 127.4 5.0		CHENT OF	14N ° 14N °	1.0	8.040	CMLNT CF	3-18 91-5	3-6 77-9 8-926		REGULKEM	NAL	FLE*12	44.5 [UN m		0.0 21.375
111105 111105	ACJULKC	(X X)	(K.7) (MC4)	I REJUIRENFAT		(HC4) (HC4)	I REQUIREVENT		(MM) (HC4)	"ATER REQUIREMENT OF	(44)	(1 1 1	(MCM)	א ארקטועו		(MM) (44) (HC4)		U WATER .		(MCM)	FROM DIV	•	(WOW) -
YEAL 10 Lienta Lated beduited ment de			F.K.R. 1.R.C.	FIELU MATER	UNTH ET CRUP	е кајлгацц Г.К.К. К.К.Q.	FJELD WATER	MONTH Et CROP E Kainfall		FIELD "ATTR	HCNTH EF CROP	E HAINFALL	1-K-C-	FILL" WATEN REQUIREMENT GF		Е ХАІЛГАLL Г.Ж.К. М.К.Ц.		IGIAL FIELD WATER REGULAENEN	HINDW	UNANU	ןאיןרפענאס אטאעער איזאר איזאעע ואיןרפענאס	HUNTH	SUPPLEMENT Deficiency
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			DEC		0.0.0		4 0 0	0.0	0.0	0.0		DEC 159.6	8.4	5.523		•	40.2			DEC 46.	3.7	4+86			DEC	15-26.			DEC	0.0
			202 202	2010	0°0			0-0	00.0	0.0		NOV 86. 7	27.5	59.2 2.113		NON	24.3	0-137		NUV 24.3	23°1	0.137	٠		VON	2.448			70V	U.U 2.338
			UC T	14.7	0.2 4.006		ļ	UC3 18.6	18-4 0-2	0-072		0CT 0.0	0.0	0-0-0		00.1	0 0 0 0 0	0.0		0CT 0.0	00	0-0			001	0-078			JCT	0.U 0.078
					· 1.2 0.041			56P 126.U	124-5 1-5	0.486		SEP 0-U	0.0	0.0		SEP	20 20	0.0		5EP 0.0	0.0	0.0			SEP	0.527			SEP	0-0
			AUG	141.0	1-7 0-060		:	AUG 190.0	187.1 2.3	0.733		AUG 0.0	0-0	0.0		AUG	00.0 00.0	0-0-0	•	AU4 0-0	0.0	0-0			AUG	667-0			AUG	0•0 0•735
			JUL	142.8	1.7 U.U62	•		, JUL 1/3.9	1-7	0.671		10L 10L	0-0	0.0 U.U		JUL	00-0	0-0-0	,	10F 1		0-1			JUL	0.732			JUL	0.0
			NUL	141.1 148.8	2•3 0 - 082		5	205.2	202.7	0.791		NUL NUL	0.0	1 0°0. 1°0		NUL	0.0	0.0				2			NUL	U.873			NUL	0-0 0-013
			MAY	104-4	1.5 U.U45			MAY 117.5	116.1 1.4	0.453		NAY 0.0	0	0.0		MAY	0.0 0	0 0 0		MAY	200	n•0	•		МАҮ	U.49B			447	6.U 0.448
	•		APR	0.0	0.0 0-0		,	APR U.U	0.0	0*0		APR	5-1	0.92		APR	200	0-0 0-0	,	APK APK					АРК	0.430			АРК	0-0 010-0
		d+d (13	HAK	· · ·	0.0	11 0.00		9.U	0.0	0-0	108Y) P+P	MAR	2.5	140.3	15 P+GC	МАК	0.45	5.5. 166.2	1084) P+G0	MAK	1 4 7 	2-039			нак	10.834			нан	0-0 10-434
		PAUUY (W	F.C.B.		0.0	0 A CO VI HC		₽£8 0•0	011	0.0	PAUUY 1D	6C4 154 0	0.0	154.0 5.500	GROUNDINS P+GC	F L H	67.2 0.0	5.7.2 7.100	ULANS (C	FL8 61 0	20.2	0.494		EN L	F£U	20-144		UKKS	834	0-0 20-196
		MENT OF	JAN	0.0	0-0		אביקחואבעניאן חע	147 U.U	0.0	U.U	KEUUTREFENT GF	10N 201	Q = 5	122.8	KEQUIRGMENT OF	NAL		114.5	EMENT OF	14N 5 11	4 . 2	8-84-8		RLCUTREPI	NAL	21.225		ILHSIGN M	NAL	0.0
		WATER REQUIREMENT OF PAUUY (WET) PEP										10		. (MM) . (MCM)			(WW)		CK KEUUTREMENT	L C				TOTAL FIELD MATER RIGUIREPENT	, I	ULNAND INCYI		I HH IGATED FRUM DIVLASION MUKKS	H	(1)11 IN
	YEAN II	Flëuu "Arf	HINDN	LI LRUP E RAINFALL	T.Z.K. Z.K.C.		- 16 LU MAIER	PUNIH FI CRUP	E HAINFALL	10-2-1	FILLD WATER	HL VDX HL VDX	E RAINFALL		FIELD MATER	MUNT	E KAINFALL	***** ****	FIELU. אמזנא	41NUM 41NUM	E HALNFAL	· · · · · · · · · · · · · · · · · · ·		TOTAL FIE	HUNDH	ULMAN		LAN IGATEC	HUNTH	INDA TIDATS
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		0+0 0-0	0.0 0.0		DEC 0+0	0.0		DEC 159.6 4.4	155.2		DEC 46.2 3.4	42.8 • 903	*	0EC 46-2	3.4 42.8 .903		L	uec 15.350			DEC	0-0 15-350
		20 V 2 • 0 0 • 0	a . 0 . 0		0*0 0*0	0000		NDV 86.7 25.3			NOV 24-3 21-5	•		~	21.5 2.8 0.323 4			VUV 2.838 15			NUV	0.U 0 2.8J8 15
	!	0CT 14.9 14.7	0.2 U.006		0CT 14.6	18.4 0.2 0.072		0,0 0,0	0-0	•	011 0.0 1.0	0.0		001	0-0-0			ULI 0.078			00.7	0.0 0.078
	:	SEP 96.e 95.4	140-0		5£P 126.0	124.5 1.5 0.486		5EP 0°0 U•0	0-0		SEP 0.0 0.0	0.0		56P 0.0	200 200 0		1	9527 U+527			SEP	0-0 0-527
		AUG 141-0 134-4	1-7 0-060		AUG 190-U	18/.7 2.3 0.733		0-0 0-0	. . 2		AUG 0-0 0-0			AUG 0-0	00 00 00 00			406 0,793			ងបច់	0-0 0-193
		JUL 243.8 242.1	0		JUL 173-9	L71-8 L-2 1-2		30L 0.0	Ð		101 0-0 101	5			0 0 0 0 0 0		:	JUL 0.732			JUL	0.0 0.132
		1-141 1-141	2.3 U.UBZ		NUL 2+402	2.22-7 2.55 0.791		0-0 NUL	1 3		NUL. 1.0				0 0 0 0 0 0 0			NUL 878.0			NUL	0.0
		RAY 105.7	1 I I I I I I I I I I I I I I I I I I I	ı I	MAY 117.5	11011 - 1 4 - 1 6 - 4 - 5		747 747 747	, 3 (MAY 0.0	0	, 1		ວ ລຸດ ວ ດ ດ ດ			MAT 0.498			μΛΥ	0.0
		AFK 0.0		J	A	0-0-0 0-0-0	ġ		1 - 7 	U,	APK 0.0	2	20	APK 0.0			i	7 0.416			АРК	U-0 1 U-936
	PAUUY (HEI) 4+0	MAK 0.J	0	PADUY(WET) P+GC	Σ	0.0.0	(DKY) P+P		- vi 1	GROUNDNUTS P+6C	MAK 35.0	ግ <u>ተ</u>	108Y1 P+GC	H4K 19.4	N,			AAK 4 10-377			MAN	4 10-8/7
			5		Ŧ	0.0.0	CF PADUY		<u>на</u> ,	CF GROUND	. FFB 8 67.2 9.0	~~	CF BEANS	5 61.0	2		FHENT	0 20-194		NUKS	l Fus	0 20-174
	RLMENT C	7.5 0.0 7 7	0.0	HLUUIKEFENT GF	141 1.0	0°0 0°0 0°0	KÉJUTKEMENT (127.4 127.4 127.5	123.2	REJUIREMENT (. NAU 3.67 1.1	010-9	KEQUIREMENT I	JAN HI	3.9 7.17 8.504		2 H X	144 21-320		JIVERSICN	NVN	0.0
	FIELO ALER RUJUIRLMENT OF	114 117 (411) 111 (411)	44 (M4)			ALL (MY) .R. (MX) .Q. (4C4)			-R. (4M)	HATER REAL	NTH ROP (XY) All (MM)			PUNTH - CRUP (4M)	[NFALL (MM) F.H.R. (MM) H.H.Q. (MCM)		tuřat FIELD MATER	MUNIH Demand (MGM)		INHIGATED FRUM DIVERSIGN MORKS	MONTH	HENT (MCM) Ency (MCM)
YEA4 12	1 1 E L O "4	MUNTH ET CKUP F MATRFALL	Π.Σ.Χ. Γ.Σ.Ε.	PICLD WAIER		Е КАІЛГАLL Г.н.я. М.н.ц.	FIELD AATER	HONIH El Crop E rainfall		FIELD ma	E F CROP F HAINFALL		FLELO HATER	MUNTH ET CRUP	Е <i>Но</i> гласт F.H.4; N.H.Q.		tuřat F	NG DEW DEW		INH IGAT	0 M	SUPPLEMENT SEFILIENCY
0	Ø	0		0	0	ο	0	0	0	C	• •	l -	Q	0	0	0	0	0	С)	0	0

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Ytåd 13	FILLO MATER Bunth Et Crop (E KAINFALI + N.K. H.R.U.	FIELD HATER	MUNIH EI CRUP E ADINFALL F-W-R.	н"К. ч. Ficlg Aater	MONTH ET LRUP E rotnenij	# } } L	FIELD MATER	PONTH ET CRUP E RAINFALL		FIELD WATE 4		E KAINFALL F.W.K. H.R.C.	-	TOTÅL FIELU HATER Munth	DEMAND	ANACM NIVERSATED FRUM DIVERSIUN NORSES	HINQH	SUPPLEMENT Supplesent
	~ ~				~ ~	(124) (124)			(MW)		REQUIRCHENT		(MA) (MA) (MCA)		.U HATER	[HCH]	FHUM DIV		1 (ML4) 7 (464)
	књаШКЕМЦИГ ОР Јац 241 ода	00000 0000 0	REQUIREMENT OF	N 0 0 0 0 N 0 0 N 0 N 0 N 0	HCM) 0.0 Requirement of	127. 127.	123.1	KLUUIRCMENT OF	13.8 13.8	8.013	REMENT OF	01.5 UL.J	J.Y. 7.75 8.498		REJULKEMENT Jan	21.308	M NDISHBA	NEL	0.0 21-308
		0.0.0		FE6 0-0 0-0	υ.υ PADUY	FE8 154.0	154.0		Ftu 67-2	61.2	BEANS	FEU 61.0	0-13 0-13 494-3		ENT Feb	20.144	OKKS	644	0-0 20-194
	ΡΔΙΝΊΥ (WET) 2+P FLU MAK 0.0	0.0.0	PAUDY[WET] P+GC	₩×₩ 0.00 0.00 0.00	0.U (OKY) P+P	MAK 142.j	140.1	GROUNDNUTS P+GC	МАК 35.0	19.5 19.5 19.4	10KY) P+6C	лан 19-2	6.1 9.11 2.05		MAR	10-8/2		нан	0-0 10-872
	4		•	AP# 0.0 0.0	:	APH 21.9	20.2		APR.			4	0 0 0 0 0 0		На р	d£9.U		A P R	U.J U.Y35
	MAY	1045	•	MAY 2-11 116-1	0.453	847 1.0 1.0	0.0					MAY U.O	0.0 0.0 0.0		YAH	0.498		MÅY	0.U 0.498
		280°0	1	JUN 202+7 202+7	167.0	Nnr Nnr	0.0		0-1 NAL) 9 1	0*0	0.0	•	NEU	0.473		NOP	0.0 0.473
	ייר ייר	142-1 1-241 1-241	-	JUL 1/3.9 1/1.8	0.671	0.0 JUL	000 000 000		0-0 70r			JUL 0.0	200			0.732		JUL	0.0 0.732
	AUG AUG	1.4.4 1.7	1	AUG 190. u 187. j	0.733	AUG 0.0	0.0 0 0 0		۵-0 ۵-0		•	AUG 0.0	0.00	1	AUC	£67.0		AUG	0.0 0.733
	SEP SEP	95.4 1.2 0.041	1	SEP 126+0 124+5	1.0	SEP 0.0	0°0°0		SEP U.O			SEP 0-0	0000		250	0.527		SEP	0.0
	üCT	14.7 U.2 0.006		1001 18-6 19-4	0.072	010 010	0.0		0.0) •	0CT 0_0	0.0	1	L (0) ,	0-078		uct	0.0 0.078
	A ON	00000	1	>>> 0 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	0.0	NDV B6.7	25.6 61.1 2.181		NOV 24+3	21.7 2.6 0 303		VON	21.7		NUN	2+767		ΛOV	0.0 2-767
	DEC	0000		0+C 0+0	0.0	06C 159.6	4-5 155-2 5.542		UEC 46•2	3•4 42•7 4 800		DEC 44-3	4 5 4 4 4 5 4 4 4 5 4 4 7 4 5 4 7 4 7 4 5 4 7 4 7 4 5 4 7 4 7 4 7 4 7 4 7 4 7 4 7 4 7 4			000 15+339	-	DEC	0.0 15.339
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÷		0.0 0.0	0"0		0+C 0.0	0.0		DEC 159.6 4 4	155.2		DEC 46=2	4 5 4 4 2 4 8 7 7	cn4 • •	DEC	3.4 42.8 4.904		DEC	15-351		DEC	0-0 15-351
		010 2020	0-0		0-0	0-0		NDV 86.7 25.3	61.4 2.193		NDV 24+3	21°5 2.8	C7C • N	NON NON	24.5		NON	2-844		VUV	0-0 2-844
		uc f 14-9 14-7	0.2 0.006		0CT 18-6	14-4 1-2 0-072		0-0 0-0	0 0 0		0.T. 0.•0	000		0CT 0.0	0-0-0		001	0.078		UCT	0. J 0. 078
		SEP 96.6 95.4	1-2 0-041		SEP 126.0	124.5 2.45 0.486		5 0.0 2	0.0.0		5EP 0*0	0.0 0 0 0		SEP	0.0		SEP	0.527		SEP	0.0 0.527
		141-0 141-0 139-4	1.7 0-040		AUG 190.0	187.7 2.3 0.733	,	970 970 970	0.0 0.0 0		0-0 0.4	0 3 0	2 2 2	0-0 V 0	0.0		AUG	61-0		AUG	0.793 0.793
			1.7 U.U&2		JUL 173-9	171-8 2-1 0-671	r r	10L 0.0			10r 0-0	00 0 0 0	0.0	oro nr	00000		זער	561.0		JUL	0.U 0.132
		JUN 191-1 184-8	2-3 U-082	•	JUN 205.2	202-7 2-5 3-791	1 - - -	NUL .	0.0	,	NUL .	0 0 0 0 0	2	NUL	00000		NDL	0.473		8 UV	0.U U.873
		HAY 105-1 104-4	1.J U.V45		447 417.5	116°1 1•4 1•4	, , , ,	84Y 0.0	0.0.0	•	.0.0	00 00 00 00		MAY	0.000		нат	9.498		МАҮ	0-U 0-43
•		0.0 0.0	0 0 1 7	ſ	APR U.O	0•0 0•0		444 21-9	26.2		APR	000	5	АРК ОСО	0.0.0		АРК	0.736		АРК	0. U 0. 936
	ET) 2+P	000 000 100	0.0 4.0		NAR U.O	0.0 0.0	4+4 (YA	MAK 142.J	140.2	115 P+GC	MAH 35+0	/•1 L•L£	HEANS (DRY) P+GC	MAK	1.1 17.4 2.052		MAK	10.473		ААК	0.0 10.874
	PAUDY (N	818 0°0	0.0 U.U	PADUY1%ET) P+GC	668 U.U	0.0	PADDY [DRY] P+P	FEB 154.0 0.0	154.0	GRUUNDNUTS P+GC	FEB 61+2	0.0	BEANS (L	F 1 8 6 1 - 0	0-0 61-0 6444		ENT Feb	20.194	GKK5	448	0.0 . 20-194
	HENT UF	14N 0.0	0.0 G.d	мент ор	145 0.0	0.0		141	2-121	HFUL GF	+ ح د	1.1 1.1 1.1	EMENT DF		8-5 1-1 2-00-8		KEUUTREM JAN	126.12	EKSTON W	IAN	0.0 156.15
	keuul RE	(44)	(MCH)	KF JUTRE	(HH)	(MM) (MM) (MCM)	L ALUUTR	(x W)	(MM) (MCM)	REJULA	(WN)	(MN)	K REJUIR	(MM)			U MATER	UEMAND (MCA)	FROM DIV		(HCH) (HCH)
71 AK 19	€IFLU AAIER KEGUIREMENT UF PAUUY (WET) P+P		- X - X - X - X - X - X - X - X - X - X	FIELD HATCH HE GUIREMENT OF	HINLY, FI CRUP	E KAINFALL F.1-K. H.K.D.	FIELD WATER RENUTREPENT OF	HUNIH ET CROP (MY) E AAIAEALL, (MM)	4.8.0	FIELU MATER REGURENFUL CF	PCNTH, EI CROP	Е КА]ЛРАЦЦ Г.М.К. 	FIELD WATER REJUIREMENT OF	HINOA HINOA	E RAINFALL F-H-R- H-R-Q-		FUTAL FIELD MATER REGUTRIMENT Münth Jan	UEMAND	INATGATED FROM DIVENSIGN WORKS	MGNTH	SUPPLEMENT DEFILIENCY
11	ц.	تد		u.			- 	-		-	r 1		i								
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			0+C 0+0	00-0	0*0		0-0 0-0		0.0		06C 159+6	4.0 155.6	5.551		0 E C 4 6 L	11.	4.93			1-M (4			DEC	15.429			DEC	0.0 15.429
			0-0 0	20.0	0-0		NON 0.0		0-0		NUV 86.7	23.2	2.266		NON 242	6	0.529		VOV VDV	19.7	0.529	٠		NUV	3.25 . Ł			ADN	0•U 3• 325
			0CT 14-9	14*7 0•2	0.006		0,CT 1 H _ A	18.4	0.072		001	0.0	0-0		00T 0.0	0	0-0			2.0	0.0			00.1	U.U78			001	0-U 0-U78
		•	564 96.6	95.4 1.2	0.041		5 EP 1 2 6 - 0	124-5	0.486		5EP 0.0	0.0	0.0		sçP 0-0	00	0-0		SEP 0.0		0.0			SEP	0.527			SEP	0.U 0.527
			AUG 141-U	4-661	U• 00 U		AUG 140-0	187.7	0.733		AUG 0.0	0.0	0 • 0		AUG		0.0		AUG	200				AUG	6.793			AUG	0-0 0-193
			JUL 143-8	142.1	0-062		יזיי זחר	1/1.8	0.671		10L 0+0	00 • 0	0-0		יירט יור	200	0.0		JUL JUL	200	n•0•n			JUL	U - 732.			ういし	U.U 0_732
			1.161 NUL	8-891	0.082.	ι	NUL	202-7	1.191	-	0-0 7	0.0	0.0		NUL		0-0-0		NUL	200	 			NNF	0.873			יעא	0.0 0.873
			M1Y 101.7	104-4	0-045		487	1.6.1	0.453		44Y 0.0	2°0	1U		HAY D_O	5	0-0		MAY 0.0.	201	0°0		,	'MAY	0.498		;	MAY	U.U U.498
			АРК 0.0	200	n•n		APR APR		0.U		APK 27.9	26.3	0-941		APK	5	0-0		АРК (1-1)		0-0-0-			. AVA .	u•941			АРК	0.0'. U.941
		d+d [1]	ИАН. U.J	200	p•0	11 P+6¢	HAR U		0-0-0	d+4 (X)	MAR 142. 3	140.3	5-012	15 P+GC	MAK 45-0		418.5	108Y) P+GC	NAK 14_2	7.1	2-005			MAR	10-913		1	млн	0.0
		AD0Y (46	. 874 874	5.0	u.u	PADUY (wE 1	FEN 1. 11		0-0	PAUDY (DRY) P+P	F&N 154.0	0.01	004-4	GROUNDNUTS P+GC	FEU 67.2	5	1.700	HEANS (DI	РЕН А I - D	0.0	6.994 .		NT	FEB .	20.194		KKS _	+ t t	0°.J 20-174
		38.JUIRLAE94 OF PAUOY (MET) P+P	10 N	0°1	0.0		JAN VAL		0.0	0F	JAN 127.4	9-8 2-251	4.411		NAN ALFA	5	840-8	RF-UUIREMENT OF I	NAU VAN		0,9,0		ENUREME	Nic	21.406	•	0M MUICH3	NVF	0-9 21-436
		3ይ ታህ በዩር	(1,1,1)	(M.	(MCH)	RHJUTKEMENT OF	1 1111		(W)W)	REQUIREPENT	(HH)		(HCH)	KEQUIREMENT OF	(MM)	(14)	(MOM)		(MM)	(++)	(HCH)		WATER R	ن ۱	(NUM)		RUN CIVE		(HLA) (HLA)
	YEAH 15	Flets ATER				FILLD MATER	HUNTH FINDA			FIFLI HATER	H CHUP			FIELD WATER	HINDA -			FIELU WATER	HONTH EI CROP				TUTAL FIELO WATER REGULKEMENT	MUNDW	UPMAND (MCM)		INALGATED FROM CIVERSIUM WURKS	HUNTH	SUPPLEMENT CLFICIENCY
Ø	0	6	•	6	C	•	Ó	c	Ĵ	0	0	+ 	0	C	,	0	C	ว	0	· (5	0	C)	0	o	>	0	0

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Unit: Days)	Dec. Total			29 223	30 24J	30 250		30 268			30 269				30 24th	0 249					0 246
(Un	Nov. De				27			27 3							29 3	28 30	26 30	28 3N	29 30	25 30	27 30
	Oct.	17	19	15	18	19	22	21	18	21	21	18	19	22	18	21	20	Τ2	22	20	19
	Sep.	9	12	7	ΤT	12	18	16	ΤŢ	13	14	ΓT	12	15	13	ΤT	11	12	18	12	12
	Aug.	ო	.1	4	S	б	15	13	8	ი	41	Ð	œ	12	7	7	9	7	12	Ħ	8
	.Iul	ო	ഗ	≠	7	11	13	TT	7	7	11	4	ნ	II	S	7	9	ო	80	ო	2
	Jun.	4	ഹ	4	89	10	14	11	80	8	13	ഹ	σ	TO	9	٢	7	ㅋ	0T	7	8
	May	14 1	17	18	6T	17	22	22	19	21	21	19	20	6T	20	22	19	18	18	17	19
	Apr.	28	28	28	28	29	29	29	27	29	28	28	28	28	28	28	28	25	29	27	28
	Mar.	30	30	30	30	30	31	30	30	30	IE	30	30	30	30	30	30	ЗŢ	31	31	30
	Feb.	27	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
	Jan.	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	ЗŢ	30	30
	Station	Hmawbi	Taikkyi	Tharrawaddy	Minhla	Okpo	Gyobingauk	Zigon	Prome	Paukkaung	Shwedaung	Henzada	Kyangin	Myanaung	Ingabu	Zalun	Danuybu	Lemyethna	Yegyi	Kyonpyaw	Average

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ANNUAL MEAN NON-RAINFALL DAYS

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APPENDIX D-5 RAINFALL DAYS

											~		uays J
Ja	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Total
ю	0	27	30	29	15	۵	ŝ	ស	80	18	27	29	229
Ċ	30	28	30	28	19	G	8	Ω	12	19	27	30	242
e	0	28	30	29	20	9	വ	7	IO	17	26	30	238
c	30	28	30	28	20	8	œ	വ	11	19	27	30	244
e	30	28	30	29	20	13	13	11	1,4	20	26	30	264
Gyobingauk 3	30	28	31	29	22	14	14	15	18	22	28	30	28T
	30	28	30	29	22	11	11	13	16	21	27	30	268
31	õ	28	30	28	20	11	ი	10	13	20	27	30	256
Ю	30	28	30	29	22	10	σ	11	15 1	22	27	30	263
30	0	28	ЗI	28	21	13	12	14	14	21	28	30	270
°,	õ	28	30	29	19	ഗ	9	9	11	19	27	30	241
ю	õ	28	30	28	20	10	10	6	13	20	28	30	256
ю	õ	28	30	28	20	10	12	13	16	23	28	30	268
e	õ	28	30	28	20	7	9	თ	7#	19	29	30	250
С	õ	28	30	28	22	8	7	2	12	22	28	30	252
c	ő	28	30	28	6T	8	7	7	12	20	. 27	30	246
n	Ő	28	31.	25	18	4	თ-	80	12	16	28	30	233
n	31	28	31	29	19	10	თ	12	20	23	29	30	271
e	30	28	31	27	19	ω	4	S	Τđ	22	27	30	245
ω)	30	28	30	28	20	٥ 	α	6	13	50	27	30	250

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

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Days)	Total	260	262	268	272	295	299	286	296	299	291	268	287	292	280	270	270	259	284	266	280
(Unit:	Dec.	30	30	30	30	30	30	30	30	31	30	30	30	30	31	30	30	31	30	31	30
J	Nov.	28	28	28	28	27	29	28	28	28	28	28	28	29	29	28	28	29	29	27	28
	Oct.	22	21	21	22	24	24	23	24	26	23	22	23	24	24	24	23	20	25	23	23
1	Sep.	14	15	7Q	17	19	20	19	19	20	17	17	18	19	18	15	16	18	21	17	18
	Aug.	10	თ	12	ГI	16	19	17	19	19	18	11	16	18	15	11	11	10	14	8	퀴
(uu	Jul.	10	TT	10	11	19	1 8	15	17	17	16	10	16	17	10	11	11	7	11	ω	원
5.0	Jun.	10	თ	TT	14	19	1 7	14	18	17	17	11	15	15	12	11	12	თ	14	12	치
ss than	May	19	22	23	22	23	24	23	24	24	24	22	24	23	23	23	22	20	21	22	23
(Less	Apr.	29	29	29	29	30	29	29	29	29	29	29	29	29	29	29	29	26	29	28	29
	Mar.	30	30	30	30	30	ЗI	30	30	30	31	30	30	30	31	30	30	Зl	31	31	30
	Feb.	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
	Jan.	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	31	31	30
	Station	Hmawbî	Taikkyi	Tharrawaddy	Minhla	Окро	Gyobingauk	Zigon	Prome	Paukkaung	Shwedaung	Henzada	Kayngin	Myanaung	Ingabu	Zalun	Danubyu	Lemyethna	Yegyi	Kyonpyaw	Average

ANNUAL MEAN NON-RAINFALL DAYS

				(Le	ss tha	(Less than 10 mm)	(E		1		C	(Unit:	Days)
Station	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	0ct.	Nov.	Dec.	Total
Hmawbi	30	28	30	29	22	15	Ъц	1 4	19	25	29	30	285
Taikkyi	ΤE	28	30	29	24	1t T	цЧ	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	ΤE	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	ΤE	28	31	29	26	21	23	24	24	27	28	τε	323
Shwedaung	30	28	31	29	26	22	21	23	20	25	29	30	314
Henzada	30	28	30	29	24	16	ЕT	15	21	25	28	30	289
Kyangin	30	28	30	29	26	19	21	22	23	26	29	ΤE	314
Myanaung	30	28	30	29	25	19	22	22	22	26	29	30	312
Ingabu	30	28	τe	29	25	16	15	19	21	26	29	ΊE	300
Zalun	30	28	30	29	25	15	1.5	15	19	26	25	30	291
Danubyu	30	28	30	29	24	15	T 6	T 6	20	25.	3ô	30	292
Lemyethna	31	28	Эl	27	23	13	12	14	21	24	29	TE	284
Yegyi	31	28	ЭТ	29	23	1 6	15	17	22	26	29	30	297
Kyanpyaw	31	28	31	28	24	14	T3	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

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Days)	Total	33T	332	337	344	354	34G	347	350	353	348	336	347	348	343	337	336	329	337	335	342
(Unit:	Dec.	30	31	30	31	31	30	31	30	TE	30	31	31	30	31	31	30	31	31	31	31
C	Nov.	29	29	29	29	30	29	29	29	29	29	29	29	29	29	29	29	30	29	29	29
mm.)	Oct.	29	28	29	29	30	30	29	29	30	29	29	29	30	29	30	29.	29	28	29	29
	Sep.	26	26	27	28	27	28	28	28	29	27	27	28	27	28	26	26	26	27	27	27
	Aug	24	24	26	27	29	28	28	29	29	29	25	29	28	26	26	25	22	25	25	27
	Jul.	24	23	25	26	29	28	28	29	29	29	24	29	29	26	24	25	22	24	23	26
30	Jun.	25	24	25	27	29	27	27	27	27	27	25	26	27	26	25	25	23	25	24	26
(Less than	May	27	28	28	29	29	29	29	29	29	29	29	29	29	28	28	28	27	28	28	28
(Le	Apr.	29	29	29	29	30	30	29	30	30	29	29	29	29	30	29	29	29	30	29	29
	Mar.	30	31	31	ΤE	31	31	30	31	31	31	30	30	31	31	31	31	ΤE	зі	31	<u> 31</u>
	Feb.	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
	Jan.	30	3T	30	30	31	ЗI	31	31	Зl	31	30	30	ΤE	Тĉ	30	31	31	31	зт	31
	Station	Hmawbi	Taikkyi	Tharrawaddy	Minhla	Okpo	Gyobingauk	Zigon	Prome	Paukkaung	Shwedaung	Henzada	Kyangin	Myanaung	Ingabu	Zalun	Danubyu	Lemyethna	Yegyi	Kyonpyaw	Average

ANNUAL MEAN NON-RAINFALL DAYS

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ACCUMULATED SFECIFIC DISCHARGE

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(uu	Dec.	866	686	T6 i	L #1	32	52	57	367		455	24	50	170	46
(Unit: mm)	å	w	0)	1,2	CN.	2	Ч	#	ო		4	ίΩ.	7	÷-i	ň
inu)	Nov.	863	972	1,289	247	292	175	8#1	367		611	322	944	170	393
	Oct.	846	924	1,265	24T	283	774	419	335		423	303	422	168	376
	Sep.	759	843	1,172	204	269	158	355	312		355	261	360	132	317
	Aug	609	697	939	1.75	205	127	296	269		273	194	280	92	254
	.Iul	336	339	669	111	101	87	186	212		165	116	175	55	94
	Jun.	66	129	465	62	44	15	75	126		61	57	63	29	54
	May	14	ო	t1 t1	9	7	Т	12	46		10	12	13	0	0
	Apr.	0	0	0	0	0	0	0	0		0	0	0	0	o
	Mar.	0	0	0	0	0	0	0	0		0	Q	0	0	0
	Feb.	0	0	0	0	0	0	0	0		0	٥	0	0	0
	Jan.	0	0	0	0	0	0	0	0		0	0	0	0	0
	Station	l. Okkan	2. Thegow	3. Kadinbilin	4. Bawbin	5. Gamon	6. Taungnyo	7. Wegyi	8. Thegon	9. Shwele	10. Dingyi	ll. Alenawin	12. South Nawin	13. Kyun Yaung	14. Kyun Chaung

APPENDIX D-6 BASIC DATA FOR RUN-OFF COEFFICIENCY

mm)		Okkan Thegow		Bawbin	Gamon	Wegyi	Thegon	Dingyi,Alenawin South Nawin	Kyun Chaung
(Unit:	Dec.	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	1,858.7	1,366.2	l,338.5	1,561.5	1,298.2	1,224.8	945.4 1,214.2 1,363.3 1,388.1 1,395.9
	Nov.	2,168.5	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	961.7 1,195.0 1,324.5 1,359.4 1,366.2	988.8 1,179.4 1,318.9 1,331.0 1,338.5	878.5 1,157.8 1,369.0 1,519.7 1,560.7 1,561.5	887.2 1,105.9 1,266.1 1,291.7 1,298.2	898.6 1,065.5 1,176.8 1,224.5 1,224.8	3 1,388.1
	Oct.	2,136.1	7 1,828.9	0 1,324.5	+ 1,318.9	0 1,519.7	9 1,266.]	5 1,176.8	2 1,363.3
INFALL	Sep.	1,948.3	1,655.7	1,195.(1,179. ¹	3 1,369.4	2 1,105.	3 1,065 .	4 1,214.
ACCUMULATED RAINFALL	Aug.	1,644.9	1,433.6			1,157.8			
ACCUMU	.Iul.	1,174.0	1,007.l	675.4	731.4		668.7	666.5	707.8
	Jun.	668.9	567.6	421.7	448.5	534.6	8.3 414.6	450.3	6.5 444.1
	May	220.1	206.8	8.4 10.9 223.7 421.7	1.9 6.0 158.4 448.5	4.4 16.7 183.7 534.6	168.3	0.9 0.9 2.6 8.6 ISI.2 450 ⁶ 3	166.5
	Apr.	24.3	22.7	10.9	6.0	16.7	16.8	8°9	16.1
	Mar.	10.6	6.0		1.9		6.4	2.6	1.2
	Jan. Feb. Mar. Apr.	7.2	4.5 5.I	1.9 1.9	1.3 1.9	2.1 2.5	4.6 5.6 6.4 16.8 16	6°0	0.7 1.2 1.2 16.1 16
	Jan.		с. т	1.9	1.3	2.1	4.6	0.9	0.7
	Station	Tharrawaddy	Minhla	Okpo	Gyobingauk	Zigon	Prome	Paukkaung	Shwedaung

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(um	Total	866	989	1,291	247	292	175	457	367		455	324	450	170	394	
(Unit:	Dec.	ო	17	2	0	0	0	თ	0		9	2	t	0	ч	
-	Nov	17	48	24	g	თ	-1	29	32		26	19	24	N	17	
	Oct.	87	81	63	37	14	16	64	23		68	42	62	36	59	•
	Sep.	150	146	233	29	64	ЗТ	59	43		82	67	80	04	63	
	Aug.	273	358	240	94	TOT	04	110	57		108	78	105	37	160	
	Jul.	237	210	234	64	60	72	111	86		104	53	106	26	40	
	Jun.	85	126	421	56	37	14	63	80		51	45	56	29	54	
	May	1t	ო	11 11	g	7	н	12	46		ΠO	12	13	0	0	
	Apr.	0	0	0	0	0		0	0		0	0	0	0	0	
	Mar.	0	0	0	0	0		0	0		0	0	0	0	0	
	Feb.	0	0	0	0	0		0	0		0	0	0	0	0	
	<u>Jan.</u>	0	0	0	0	0		0	0		0	0	0	0	0	
	<u>C.A</u> (sq.km)	313.4	88.1	240.9	261.6	80.3	549.l	538.7	69.8		323.7	274.5	639.7	64.7	72.5	
	C sq	Зl	8	24	26	œ	54	53	9		32	27	63	G		
	River	l. Okkan	. Thegaw	3. Kadinbilin	4. Bawbin	5. Gamon	6. Taungnyo	7. Wegyi	8. Thegon	9. Shwele	10. Dingyi	ll. Alenawin	12. South Nawin	13. Kyun Yaung	14. Kyun Chaung	
		, H	3	'n	⇒	ŝ	9	7	ω	G	10	11	12	13	14	

SPECIFIC MONTHLY DISCHARGE

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APPENDIX D-7 WATER REQUIREMENTS

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WATER REQUIREMENT OF PADDY ON GROWING STAGE

			Моп	+ h		
	lst	2nd	3rd	4th	5th	6th
Prome; Wet season paddy of type	e A				•	
		I L O		A A	• •	~ ~
ETo (mm/day) Kc value	6.2 1.0	4.2 1.1	3.3 1.1	3.1 1.05	3.3 1.00	3.2 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
		<u> </u>				
Prome; Wet season paddy of typ	e B					
				~ .		• •
ETo (mm/day)	6.2	4.2	3.3	3.1	3.3	3.2 0.95
Ko value	1.0 6.20	1.1 4.62	1.1 3.63	1.05 3.26	1.00 3.30	3,04
ET crop (mm/day) Percolation rate (mm/day)	2.5	2.5	2.5	2.5	2.5	2.5
Total (d)	8.70	7,12	6,13		5.80	5.54
Water requirement (mm/day)	0.17	4.17	6.13	5.76	3.56	0.78
Prome; Dry season paddy of typ	e 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		1.0
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		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		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
•						

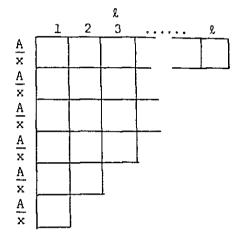
			Mon	t h		
	lst	2nd	3rd	4th	5th	6th
Tharrawaddy; Wet season paddy o	f type	B'				
ETo (mm/day)	5.4	4.1	3.9	3.6	4.1	3.1
Kc value	1.0	1.1	1.1 4.29	1.05 3.78	1.0 4.10	0.95 2.95
ET crop (mm/day)	5.40	4.51 2.5	2.5	2.5	2.5	2.5
Percolation (mm/day)	2.5 7.90	7.01	6.79	6.28		5,45
Total (d) Water requirement (mm/day)	0.12	3.35	6.57	6.28	4.62	0.60
water reduitemente (mm, of);						
Tharrawaddy; Dry season paddy o	of type	<u>A'</u>				
	2.7	2.4	2.5	3.6	4.7	6.7
ETo (mm/day) Kc value	1.0	1.1	1.1	1.25		
ET crop (mm/day)	2.70	2.64	2.75			
Percolation (mm/day)	1.5	1.5	1.5	1.5	1.5	1.5 8.20
Total (d)	4.20	4.14	4.25 4.11	6.00 6.00		1.15
Water requirement (mm/day)	0.07	1.91	4.11	0.00		
Henzada; Wet season paddy of t	ype A'					
	4.2	3.1	3.0	2.9	3.1	3.0
ETo (mm/day) Kc value	1.0	1.1	1.1			0.95
ET crop (mm/day)	4.20	3.41			$3.10 \\ 1.5$	2.85 1.5
Percolation (mm/day)	1.5	1.5	1.5 4.80	1.5 4.55		4.35
Total (d)	5.70 0.09	4.91 2.35			3.22	0.48
Water requirement (mm/day)	0.03				<u></u> .	
Henzada; Wet season paddy of t	ype 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		_			
Percolation (mm/day)	2.5			2.5 6.13		
Total (d)	6.70 0.10					
Water requirement (mm/day)	0.10	2,02		•		
Henzada; Dry season paddy of t	type A'	-				
ETo (mm/day)	2.7	2.4	2.5	3.2	-	
Kc value	1.0	1.1	1.1	1.25		
ET crop (mm/day)	2.70					
Percolation (mm/day)	1.5					
Total (d)	4.20 0.09					
Water requirement (mm/day)	0.05	<u> </u>				

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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)

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- A; Irrigable area (ha)
- %; Apprication period of water requirement (days)
- d; Consumptive use (mm/day)

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

On second month

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

On third and forth month

$$Q = 1.0 d \cdot A$$

On fifth month

Q =
$$[1.0 - \frac{1}{x} \cdot (\frac{1+k_3}{2}) \cdot k_3 \cdot \frac{1}{n_3}] d_5 \cdot A$$

On sixth month

$$Q = \frac{A}{x} \cdot \left(\frac{1+\ell_{4}}{2}\right) \cdot \ell_{4} \cdot d \cdot \frac{1}{n_{4}}$$

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

On first month

$$Q_1 = \frac{A}{x} \cdot \left(\frac{1+\xi}{2}\right) \cdot \xi \cdot d \cdot \frac{1}{\pi_1}$$

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

$$Q_3 = [1.0 - (\frac{1+l_3}{2})l_3 \cdot \frac{1}{n_3x}] A \cdot d$$

On forth month

$$Q_4 = 1.0 \text{ d} \cdot A$$

On fifth month

$$Q_5 = [1.0 - (\frac{1+l_4}{2})l_4 \cdot \frac{1}{n_4x}] A \cdot d$$

On Sixth month

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

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Paddy	Wet S	Season			Dry Season	Paddy
Туре	<u>A</u> -	B	<u>A'</u>	B1	A	A'
x	35	35	45	45	35	45
\mathfrak{L}_1	6	6	6	6	6	6
n ₁	31	31	31	31	30	30
Ql	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	d₃•A	0.9677	d₃ A	1.0 d ₃ .A	0.9677 d ₃ A
Qų	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	đ ₅ A	0.8747 d ₅ A	0.7484 d ₅ A
٤4	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

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

Basic equation for first month

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

for second month

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

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	<u>b</u>	<u>c</u>	<u>n</u>	<u>m</u>	Wat requin Mor lst (mm/	rement oth 2nd
a) Starting at end	of dry	seas	on						
Prome	A	35	109	49	82	31	30	4.85A	2.99A
11	В	35	118	58	88	31	30	5.33A	3.29A
Tharrawaddy	A۱	45	106	46	80	31	30	3.65A	3.97A
11	Bt	45	115	55	86	31	30	4.02A	4.38A
Henzada	A†	45	98	38	76	31	30	3.32A	3.63A
11	B'	45	107	47	81	31	30	3.69A	4.02A

b) Starting at end of wet season

Prome	А	35	79	34	72	30	31	3.56A	2,52A
Tharrawaddy	A۱	45	84	31	70	30	31	2.82A	3.24A
Henzada	A'	45	84	31	70	30	31	2.82A	3,24A

	Prome; Type A " ; Type B Tharrawaddy; Type A'	" : Type B' Henzada: Type A' " ; Type B'	ype A đdy and	Appendix D Page-7 -V ed X L : Epperation
ස ප් ස ස් ස් ප් ප ස් ස් ප් ප ස් ස් ප් ප ස් ස් ප් ප ස් ප් ප ස් ප ස	FH 5 x 6 + 3.9 x 6) 5 x 6 + 3.9 x 6) 5 x 6 + 3.6 x 6)	5 x 6 + 3.6 x 6) 5 x 6 + 2.7 x 6) 5 x 6 + 2.7 x 6)	5×6+2.3×6) 5×6+1.9×6)	
9 — Bniworash É	(=5 (=5 (=5	(=50 + 2. (=50 + 1. (=50 + 2.	(=50+1. (=50+1.)	
S de los	8 8 8 9 8 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	86 76 81	72 70	
u – Bniowrash t ი ი ი ი ქას	(=1.5 × 9 + 3.9 × (=1.5 × 9 + 3.9 × (=1.5 × 9 + 3.6 ×	(=2.5×9+3.6×9) (=1.5×9+2.7×9) (=2.5×9+2.7×9)	(=1.5×9+2.3×9) (=1.5×9+1.9×9)	
년 년 같 같 는 1 Errigation	tr 2 tr	55 38 47	34 31	
оо та вијмо д д ц д -	1.5×9+3.9× 2.5×9+3.9× 1.5×9+3.9×	(=60 + 2.5 × 9 + 3.6 × 9) (=60 + 1.5 × 9 + 2.7 × 9) (=60 + 2.5 × 9 + 2.7 × 9)	(=45 + 1.5 × 9 + 2.3 × 9) (=53 + 1.5 × 9 + 1.9 × 9)	
a noifegiral			1=) †18 1=) 6L	
	dry season		to bra nosees	

APPLICATION OF WATER REQUIREMENT FOR LAND SOAKING AND LAND PREPARATION WATER REQUIREMENT FOR LAND SOAKING AND LAND PREPARATION

										Pag	e-8	}	
Type A Type A'	70% dry	53	1.5	36	50		*	46	1† G		*	185	185
Type A	60% dry	H 5	1.5	36	50		54	*:	*		185	-12	**
Type B'	80% dry	60	2.5	60	50		~	86	66		«	256	236
In end of dry season Type A' Type B	80% dry	60	2.5	60	50		1 16	**	*		264	*	*
Type A'	80% dry	60	1.5	36	50		~	86	66		**	232	212
Type A	80% dry	60	1.5	36	50		1 6	*	*		240	*	-34
Item	Top soil saturation 150 mm depth 50% depth	Requirment (mm) 150 mm x 0.5 x (1)	Percolation loss (mm/day)	Total percolation loss (mm) during 24 days of preparation	Standing water requirement (mm)	Evaporation loss	Prome	Tharrawaddy	Henzada	Total (2+4+5+6)	Prome	Tharrawaddy	Henzada
Sr. No.	ч.	2.	თ		5.	.9				7.			

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

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Appendix D-7

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	Item		Jan.	Feb.	Mar.	Apr.	May	Jun.	<u>Jul.</u>	<u>Aug.</u>	Sep.	Oct.	Nov.	Dec.
		0 0	23,9	25.8	29.6	32.2		30.6		28.0	27.9	ŗ.	-	23.6
	(1)		29.6	33.1		48.4	44.3		36.4	37.7	•	o.	٢.	29.1
RH mean	(2)	9,0	45	48	H2	64	63	86	87	88	88			65
	(3)=(1)x(2)		13.3		17.4	23.7	27.9	37.8	31.7	33.2	33.0	۲.	σ.	18.9
	(1)-(3)		16.3	17.2	24.1	24.7	<u>16.4</u>	6.2	4.7	4.5	4.5			10.2
	(2)	km/day	96.5		(12.1]	54.6]	46.6]	23.6	12.1]	.08.2	88.8	0.	 म	39.0
	(9)	,	0.53		0.57	0.69	0.67	0.60	0.57	0.56	0.51	.50	. 55	0.65
	(7) alt.=20m		0.27		0.22	0.20	0.21	0.21	0.24	0.23	0.23	.23	.25	0.27
	(4)x(6)x(7)	mm/day	2.33		3.02	3.41	2.31	0.78	0.64	0.58	0.53	68	21	1.79
	(9) lat.=19°N n	l mm/day	11.4		14.5	15.6	16.2	16.3	16.2	15.9	14.8	ц,	8	10.9
	(10)	hr/day	6.9		9.3	9°2	7.2	4.5	5.1	3.8	5.8	₹.	5	8.8
	(11) lat.=10°N		11.1		12.0	12.6	13.0	13.2	13.1	12.8	12.3	2	2	11.0
	(12)		0.84		0.78	0.75	0.55	0.34	0.39	0.30	0.47	60	69	0.80
	α=0.25		0.50		0.48	0.47	0.39	0.32	0.33	0.30	0.36	41	45	0.49
	$(T_{4})=(9)\times(13)$		5.7		7.0	7.3	6.3	5.2	5.3	4.8	5.3	5 L	e	5.3
	(12)		15.4		16.7	17.2	17.0	17.0	16.1	16.3	16.3	e	Б	15.4
	(16)		0.27		0.23	0.17	0.14	0.07	0.11	0.10	01.0	12	17	0.22
~	(12)		0.86		0.80	0.78	0.60	0.4I	0.45	0.37	0.52	64	72	0.82
Rn1	(18)=(T2)×(10)>	×(17)	3.6		3.1	2.3	1.4	0.5	0.8	0.6	0.8	ς Γ	ъ	2.8
	(19) = (14) - (18)		2.1		с. С	5.0	4.9	ч.7	4.5	4.2	بہ 1	2	#	2.5
	(20)		0.73		0.78	0.80	0.79	0.79	0.76	0.77	0.77	77	75	0.73
	$(21)=(19)\times(20)$	mm/day	1.5		3.0	ц , 0	з ° 0	3.7	3.4	3.2	з.5	2	9	1.8
	(22)=(8)+(21) mm/da	mm/day	3.8		6.0	7.4	6.2	ч.5	4.0	3.8	4.0	თ	8	3.6
L L	ET correction	mm/day	3.1	4.J	5.1	7.4	6.2	4.2	3.3	3.1	ю. Э	3.2	3.1	2.9
		3												

ETo by PENMAN METHOD

(STATION: PROME)

.1	<u>+</u> ~			ģ	r-4	61	28	63	i	ω	0	80	6 1	t	2	17	82	 1	ო	72	.	0	₽.
Dec.	23 4 28 7	1 18	24	4	81.	0	0	0	ייו	ŝ	11.	0	0	ы. С	15.	0.		2.	ო	0	~·		2.
Nov.	26.5 34.5	86	29.7	t, 8	65.8	0.45	0.24	0.52	12.0	7.7	11.2	0.69	0.45	5.4	16.1	0.13	0.72	1.5	а . 9	0.75	2.9	3.4	2.7
Oct.	27.3 36.2	87	31.5	4.7	77.3	0.48	0.24	0.54	13.6	7.4	11.7	0.60	0.41	5,6	16.l	0.12	0.54	1.2	μ.μ	0.76	ю. Ю	3.8	3.1
Sep.	27.6 36.8	89	32.8	0° †	41.1	0.65	0.23	0.60	14.9	5.8	12.3	0.47	0.36	5.4	16.3	0.11	0.52	5. 0	4.5	0.77	3.5	4.1	4.1
Aug.	27.3 36.2	06	32.6	3. 6	46.6 1	0.67	0.24	0.58	15.8	3.8	12.8	0.30	0.30	4.7	16.1	0.11	0.37	0.7	4.0	0.76	з.0	3.6	3.6
Jul.	27.2 36.0	16	32.8	3.2	46.6 1	0.67	0.24	0.51	16.1	5.J	13.1	0.39	0.33	5°.3	16.1	0.11	0.45	0.8	4 . 5	0.76	3.4	з . 9	3.9
Jun.	27.7 37.1	00	33.4	3.7	52.0 L	0.71	0.23	0.60	16.1	4.5	13.2	0.34	0.32	5.2	16.3	01.0	0.41	0.7	ц . 5	0.77	3 С	4.1	4.J
May	30.1 42.7	78	33.3	4.6	29.7 I(0.62	0.22	1.28	16.1	7.2	13.0	0.55	0.39	6.3	16.7	0.10	0.60	1.0	5.3	0.78	4.1	5.4	5.4
Apr. A	30.7 3 44.3 4	09	26.6	1.7	H6.9 1:	0.67	0.21	2.49	15.6	9.5	L2.6	0.75	0.47	7.3	L7.0	0.15	0.78	2.0	5.3	0.79	4.2	6.7	6.7
Mar. /	28.0 3 37.7 4	8	6.T	5.8]	98.9 J ¹	0.54	0.23	1.96	- 1° 0° 1	6 .9	12.0	0.78	0.48	7.0	L6.3	0.19	0.80	2.5	4.5	0.77	3.5	5.5	4.7
reb.	24.7 2 31.0 3																						3.6
Jan. I	22.5 2 27.2 3	1 6	9.3 1	1.9.1	9.6	0.46	0.28	1.02	1.6 1	9.3]	1.1 1	0.84	0.50	5.8	5.2]	0.22	0.86	2.9	2.9	0.72	2.1	3.1	2.5
5 I	N N	-	Ä	-	G	-	-			-	ц,												
	о ^с	<i>0\0</i>			km/day	ı		mm/day	lat.=18°N mm/day	hr/day	•							11)			mm/day	mm/day	mm/day
			2)	3)			=l5m	(t)x(0)x(1)	=18°N		lat.=18°N		25	13)				$(18) = (15) \times (16) \times (17)$	(T8)		(20)		
Item			;)×(T):	(1)-(3)			alt	(9)×(9):	lat.		lat.		0=0 0	$[14)=(9)\times(13)$				=(12)×	-(ħT)=		x(10);	[22)=(8)+(21)	_
11	(1)	(2)	(3)≡		(2)	(9)	(2)	×(†)	(6)	(01)	(11)	(12)		=(hT)	(12)	(JE)	(11)	(18)=	=(II) =	(20)	(2T)=	(22)=	sction
	t mean aa	mean		~								Z	3)	Rns	t)	ed)					Rn	0	ET correction
	ea ea	RH	ed	Ĵ	U2	fu	7-7	(8)	Ra	ц	z	1/u	đ	Rn	ن ب	٦ F	Ę Ļ	Rn.	æ	м	- M	ET	ET

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ETo by PENMAN METHOD

(STATION: THARRAWADDY)

Dec.	23.9 29.6 21.3 21.3 21.3 8.8 0.27 0.27 0.85 0.85 0.85 0.27 0.85 0.49 0.49 0.49 0.49 0.82 0.82 0.82 0.20 0.73 3.0	2.4
Nov.	26.5 34.5 79 79 772 772 772 772 0.37 0.37 0.37 0.37 0.37 0.37 0.37 0.45 0.45 0.45 0.45 0.45 3.4 3.4 3.4	2.7
Oct.	27.5 36.6 30.4 30.4 30.4 0.23 0.48 0.48 0.48 0.48 0.48 0.48 0.48 0.48	3.0
Sep.	27 367 31, 7 31, 7 31, 7 31, 7 12, 3 0, 14 15, 8 1, 7 1, 7 1, 7 1, 7 3, 8 3, 8 3, 8 3, 1 1, 1 1, 1 3, 1 3, 1 3, 1 3, 1 3, 1	3.1
Aug.	27.1 335.8 83 6.1 7 6.1 7 6.1 7 7 6.1 7 7 6.1 7 7 6.1 7 8.6 7 7 6.1 7 8.6 7 8.6 7 7 6.1 7 8.6 7 7 8.6 7 7 8.6 7 7 8.7 8.7 8.6 8.7 8.6 8.7 8.6 8.7 7 7 8.6 8.7 8.7 8.7 8.6 8.7 7 7 7 8.6 8.7 8.6 8.7 7 7 7 8.6 8.7 7 7 7 8.6 8.7 7 7 7 8.6 8.7 7 7 7 7 8.6 8.7 7 7 7 7 7 8.6 8.7 7 7 7 7 7 8 8 8 7 7 7 7 7 7 7 7 7 7	2.9
Jul.	26.9 35.3 32.5 32.5 32.5 32.5 0.37 0.37 0.33 0.33 0.33 0.33 0.33 0.33	3.0
Jun.	27,3 366 32.6 32.6 33.6 0.43 0.43 0.43 0.43 0.24 1.6.1 1.6.1 1.6.1 1.6.1 1.6.1 1.6.1 0.37 0.37 0.34 0.37 3.6 0.37 3.6 3.7 8 3.6 3.7 8 0.7 8 3.7 8 3.7 8 0.2 7 8 0.7 8 00.2 8 100.0 8 00.2 8 00.2 8 1000.2 8 00.2 8 000.2 8 1000.2 8 00.2 8 00.2 8 00.2 8 00.2 8 00.2 8 100000000000000000000000000000000000	3.1
May	29.9 29.9 29.5 29.5 12.7 13.0 13.0 13.0 13.0 13.0 0.55 0.13 0.55 0.13 0.13 0.13 0.13 5.0 5.0 5.0 5.0	4.2
Apr.	30 4430 560 260 220 220 221 20 22 20 22 20 22 20 22 20 22 20 22 20 22 20 22 20 22 20 22 20 22 20 20	5.1
Mar.	28.28.3 558.7 228.8 222.8 222.8 2.9.3 122.0 14.6 0.18 0.18 0.18 0.18 0.18 0.18 0.18 0.18	ц.1
Feb.	24.8 31.2 62.1 11.9 38.6 0.37 0.52 0.52 0.52 0.52 0.52 0.52 0.52 0.52	3.2
Jan.	23.3 28.6 29.3 27.1 27.1 27.1 27.1 27.1 11.1 11.1 11.1	2.5
	°C % km/day mm/day hr/day (17) (17) mm/day	mm/day
Item	(1) (2) (2) (3)=(1) \times (2) (5) (1)-(3) (5) (1)-(3) (7) alt.=10m (4) \times (6) \times (7) (4) \times (6) \times (7) (4) \times (6) \times (7) (4) \times (6) \times (7) (4) \times (6) \times (7) (1) (1) (1) (1) (1) (1) (1) (1	sction
	t mean ea RH mean ed (4) (12) fu (12) fu (12) Ra N N N N N N N N N N (13) f(t) f(t) f(t) f(n/N) f(n/N) f(n/N) Fn Ra Ra Ra Ra Ra Ra Ra Ra Ra Ra Ra Ra Ra	ET correction

ETO by PENMAN METHOD

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(STATION: HENZADA)

Appendix D-7 Page-11 . .

APPENDIX D-8 COST ESTIMATION

UNIT COST OF DIVERSION DAM

1 Dam body

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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

24,253,000 Kyat/1,600 m=15,158 Ks/m (say 16,000 Ks/m)

2. Intake facilities per place

	Qunt'y	<u>Unit</u>	Unit Cost (ks)	Cost ('000ks)
(1) Fish Rudder				
Earth works	969	cu.m	15.15	14
Concrete works	336	11	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	11	392.40	275
R. iron bar	49.2	ton	6,570	323
Total				<u>714</u>
(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				<u>897</u>
(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
Concrete works R. iron bar Brick works <u>Total</u> (4) Abutment Works Earth works Concrete works R. iron bar	903 63.2 888 553 37	" ton sq.m cu.m	287.80 6,570 35.9 15.15 287.8	259 415 31 <u>897</u> 8 10 12

				Appendix I Page-2)-8
		Qunt'y	<u>Unit</u>	Unit Cost (ks)	<u>Cost</u> ('000ks)
(5)	Gate				
	Gate 2.0 x 1.6	2	pes		347
	Gate 1.2 x 1.2	1	pc		116
	Screen 3,5 x 2,2	2	pcs		66
	Screen 1.2×1.5	l	pc		8
	Total				537
	Grand Total				2,345
Gate :	for spill (Gate length = 1	.53 m)			
(1)	Dam Body				
	Earth works	18,358	cu.m	15.15	278
	Concrete works	6,221	tî	287.8	1,790
	R. iron bar	16.2	ton	6,570	106
	Rip lap	9,600	sq.m	26.1	250
	Sheet pile (1=8 m)	150	ជា	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 mx2.7 m)	3	pcs		15,428
	0 & M bridge	153	៣	21,000	3,213
	Step	6	pcs		309
	Emagency gate		\mathbf{LS}		2,314
	Total				25,164
(5)	Operation Room & Control	Equipment	s		
	Operation room	288	sq.m	1,900	547
	Control equipment		LS		6,429
	Total				6,976

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			Appendix D-8 Page-3					
			rage-s	3				
	Qunt'y	Unit	Unit Cost (ks)	<u>Cost</u> ('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: '00	0 Kyats)
			rigation 8	;
	Main dam	Diversion dam	drainage systems	Total
			Systems	
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. 0 & 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

	Total	6,931	15,878	7,226	9,199	10,717	6,642	6,002	15,160	15,388	27,683	9,250	9,705	16,064			at	ъ
000, Ks)	Cost	390	164	712	587	164	1,769	1,129	2,400	1,364	1,608	584	1,384	1,152		on data	2.0 m/sec	ion work
Cost ₂ Fstimate ('000 ₃ Ks) Gate ²	Length (m)	24.4	10.3	44.5	36.7	30.7	110.6	70.6	150.0	85.3	100.5	36.5	86.5	72.0		estimated based		a protect
Cost ₂ Fst Gate	etc.	4,196	13,369	4,169	6,267	7,881	2,528	2,528	8,070	9 , 334	21,385	6,321	3,631	10,222		is estima	<pre>simum velocit oding period.</pre>	lder, slope
Intake ¹ /	etc.	2,345	2,345	2,345	2,345	2,345	2,345	2,345	4,690	4,690	4,690	2,345	4,690	4,690		sg.km. /sec/sg.km	on the may juring floc	s, fish rud
Gate	Width (m)	15.6	49.7	15.5	23.3	29.3	η . Θ	н .е	30.0	34.7	79.5	23.5	13.5	38.0		cu.m/sec/s 3.3 cu.m/ n river.	ted based of 5.5 m (facilitie
	Q (cu.m/sec)	172	547	171	257	439	291	291	330	382	875	129	148	8TH		ge = CA x 3.3 (lischarge of ne Kadinbili	width is carculated based on the maximum velocity of and gate height of 5.5 m during flooding period.	is including intake facilities, fish rudder, slope protection works butments.
	<u>C.A</u> (sq.km)	52.1	165.8	51,8	77.8	132.9	88.3	88.3	100.0	115.8	265.2	39.1	6° ht	126.8	Catchment Area	<pre>Flood discharge = CA x 3.3 cu.m/sec/sq.km. The specific discharge of 3.3 cu.m/sec/sq.km is observed on the Kadinbilin river.</pre>	The gate width the gate and g	This is incluc and abutments.
	Project	1. Taunyo	2. Bawbin	3. Gamon	4. Winhla	5. Kadinbilin	6. Thonze	7. Okkan	8. Mamya	9. Mankathu	10. Nankdthu	ll. Mezili	12. South Kun	13. Kyetpaung	Note: C.A	Q		77

Slide-gate type.

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

COST ESTIMATE OF DIVERSION DAM

																									r	ag	e-b
Kyat)			Total 5 to 8	293,438	177,174	182,006	101,137	103,921	157,054	118,240	291,689	228,484	19,462	77,468	26,984	114,600	144 . 68	55,368	215,750	206,682,	229,246	250,43B	225,470	211,730	208,793	58,008	
(Unit: '000 Kyat)	land Consolidation	TAT THE LAND	Cost (42,800/ha	92 , 400	52,920	36,400	30,240	22,400	53,200	36,120	82,600	86,800	3,920	13.720	7,000	22,400	14 °840	8,400	23,800	45,920	46,760	56,000	56,000	53,200	54,320	5,600	
Ţ	Innd Cons		Area (ha)	33,000	18,900	13,000	4,500	9°00	19,000	12,900	39,500	31,000	1,400	005* 1	2,500	8,000	5,300	3,000	8,500	16,400	16,700	20,000	20,000	19,000	19,400	2,000	
1	Lrrigation 6 Drainage Svetem		Cost QK4,100/ha	135,300	77,490	53,300	18,450	32,800	77,900	52,890	161,950	127,100	5,740	20,090	10,250	32,800	21,730	12,300	34,850	67,240	68,470	92,000	82,000	77,900	79,540	8,200	
1	Grainad Drainad	90111011	Arca (ha)	33,000	18,900	13,000	4,500	8,000	19,000	12,900	39,500	31,000	1,400	006 1	2,500	8,000	5,300	3,000	8,500	16,400	16,700	20,000	20,000	19,000	19,400	2,000	
	Diversion Dam		Cost	ı	6,931	15,878	7,226	66 t °6	10,717	ı	6,642	6,002	ı	ı	r	1	ı	•	15,IGO	ı	15,368	27,683	ı	9,250	9,705	16,064	
	Diversi	10.10	<u>Length</u> (m) ·	ı	011	60	60	60	60	ł	120	80	ı	ı	ł	1	ı	•	180	ı	120	180	ı	60	100	110	•
		Sub-	total 1 to 4	65,738	39,833	76,428	45,221	39,522	15,237	29,230	10,497	8,582	9,802	43,658	9,734	59,400	46,871	34,668	040,141	93,522	98,628	84 , 755	87,470	71,380	65,228	28 , 144	
			Intake (8.4%)	3,771	2,285	4,385	2,594	2,267	874	1,677	2,323	76h	562	2,230	558	3,035	2°334	1,771	7,252	4,778	5,039	4,330	4,469	. 3,647	3,332	1,614	
	at		<u>Spillway</u> (25%)	11,226	6,802	13,051	7,722	6+1,8	2,602	166'tı	6,915	1,465	1,674	6,373	1,662	8,671	6,842	5,061	20,721	13,653	14,5398	12,373	12,769	10,420	9,522	4,806	
1	EPA CO	Other Earth	Horks (13%)	5,837	3,537	6,786	4,015	3,509	1,353	2,595	3,596	762	870	3,186	064	4,335	3,421	2,530	10,350	5,826	7,159	5,186	6,384	5,210	4,761	2,499	
		Earth	1	410 ° 101	27,209	52,206	30,890	26,997	10,408	19,967	27,663	5,863	6,696	31,869	6,650	43,359	34,214	25,306	103,607	68,265	71,992	61,855	63,848	52,103	47,613	19,225	
	Embank-	ment	Vol. ('000 cu.m)	2,964	1,796	3,446	2,039	1,782	687	1,318	1,826	387	244	1,753	6C 11	2,385	1,682	1,392	5,699	3,755	. 3,960	3,403	3,512	2,866	2,619 `	1,269	
	of	Irrigation	Project	l. Hegyî	2. Taunyo	3. Bawbin	4. Gamon	5. Minhla	6. Kadinbilin	7. Thegaw	B. Thonze	9. Okkan	10. Nyangging	11. Buyo	12. Thaledan	13. Alcnmoyak	14. North hun	15. Phatshin	16. Mamya	17. Kyanyin	19. Mankathu	19. Nankathu	20. Gyat .	21. Mezili	22. South Kun	23. Kyetpaung	•

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COST ESTIMATE

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APPENDIX D-9 COST ESTIMATE FOR PILOT LAND CONSOLIDATION

	Description	<u>Total</u> ('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
З.	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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