WATER DEMAND AND SUPPLY BALANCE OF INTEGRATED OPERATION SYSTEM (2/18)

Unit: 106 m3

Sources Facilities: Pedu-Muda, Ahning Case 3 (Kedah Priority)

Target Year 1990

	MUOA Demand (A)	HAGA NORTH (H)	DEMAND SOUTH (C)			JERIANG WITHO. (F)	8610 440% (6)	ASE REMAN (H)	NUDA Relea. .(I)	SOUTH DÉFIC. (J)	TUTAL DEFLC. (K)		ESER AHNING (M)			REMAIN DEFICIT (P)		001201
		791.3	555.8	268.1	543.5	0.	ν.	0.	\$3.1	335.4	914.5	907.9	63.5	V.	U	2.1		1205.
1961		597.3	265.4	260.6	360.0	G.	υ.	G	1.20	241.5	669.U	007.8	58.9	0.	0.	2.1	0.60	
1962	63.1	559.0	Zé9.8	150.0	429.5	ů.	Ū.	υ.	66.0	244.4	754.9	467.5	34.2	U+ .	0.	45.9	0.75	848
1963	64.0	576.5	229 4	186.7	402.9	0	0	0 .	63.5	216.3	688.0	654 1	55.9	0,+	υ.	0	0.05	870.
1964	63.8	599.3	282.9	292.7	362.7	Ö.	0.	ë.	63.5	226.2	654.7	635.2	21.5	ÿ,	U .	0.	0.05	946.
1965	63.5 63.1	672.8	363.1	302.6	415.2	ġ.	ũ.	ō.	63.1	317.8	814 8	163.8	51.1	υ.	θ.	0.	0.30	1077
1966		855.4	438 U	400.1	540.2	ů.	υ.	- U.	63.1	353.1	992.5	952.7	40.4	0.	Q.	0.0	0.	1356.
1967	67.0		396.5	433.5	430.1	õ.	υ.	ō.	62.0	312.8	4.258	772.3	53.1		0.	5.0	0.30	1258
1968				328.7	594 4	ŏ.	Ŭ.	ă.	63 1	253.1	719.4	645.5	74.1	U.,	0.	0.	0.50	1039
1969	63.1	669.8	361-5	340.2	518.8	α.	ų.	υ.	63.5	317.9	929.8	878.5	51.5	U.	Ο.	υ.	0.20	12+0.
1910		815.5	522.6	541.3	503.4	0.	Ű.	ō,	63.1		1016.3	969.8	46.5	U.,	υ.	0	0.	1520.
1971	63.1	933.9	372.4	418.5	507.0	ĕ.	Ŭ.	ŏ.	63.7	291.0		837.5	67.1	· 0 .	· 0.	0.	0.30	1281.
1972		779.4	339.5	489.1	354.4	0.	Ŭ.	0.	63.1		649.8	656.5	43.5	U.	. 0.	U -	U.30	1182.
1973				42910	605.2	0.	ő.	σ.	63.5		1226.9			Ú.,	0.	3.6	U.	1575.
1974	63.5	989.1	544.1		322.5	0.	υ.	ŏ.	63 1		615.7			Ū.	0.	ບູນ	0.00	922
1975	03-1	586.5	272.6	305.0 439.2	387.7	0.	U.	ŏ.	63.7	270.4	731.2			U.	0.	0.0	0.40	1101.
1976	43.7	744.3	352.9		811.5		0.	0.	61.9		1414.7			0.	0.	230.2	່ປ.	13/8
1977		1032.8		289.1	379.8	0	υ.	0.	4.54	203.5	648.1	\$65.0		0.	Ο.	1.5	0.50	.955
1978		627.0	245.7	356.2	384.0	0.	υ.	ň.	59.0	258.5	714.3	030.4		ΰ.	υ.	5.0	0.58	18:9
1979	64.0	622.7	236.0	209.3	447.1	ΰ.	υ.	n.	63.7		721.5	632.6	84.3	· 0,	0.	4.8	0.50	918.
1980	64.4	841.4	396.7	3-5-6	563.7	ō.	ΰ.	0.	62.9		1047.5	975.7	73.0	. U.	Ū.	1.1	់មុះរប	1,351
1981	64.9			319.5	168.8	0.	0	Ū.	58.6		370.9	324.9	46.0	υ.	υ.	5.6	0.75	712.
1982	64.2	454.2		433.4	606.2	ů.	e.	0.	60.8		1083.4			υ.	Ο,	4.5	9.15	1469.
1983	65.3	950.5	457 y	423.4	000.2	44			0410									· .
AVERAGE	65.9	741.0	349.8	359.5	455.1	0.	U.	0.	62.7	296.2	854.8	766.0	\$4.4	U.	0.	13+0	0.38	1141.

	MUDA DEMANO (A)		DEHAND South (C)	KEDAH WITHO. ND)	HORTH DEFLC, (E)	JEHIANG VITHO. NT)	REL NAOK (5)			DEFIC.	TOTAL DEFIC. (R)		E S E.R Ahning (n)			RÉMAIN, DEFICIT (P1		TOTAL Gutput (R)
1961	63.1	925-8	345.8	364.0	579.9	0.	U.	Ο.	63.1	321.1	1008.5	940.3	68.2	υ.	Ū.,	υ.	U.40	1355
1962	65.3	660.3	207.1	354.4	329.5	0.	υ.	υ.			5/0.0	514.2	55.8	υ.	Ū.	0.	0.75	9.51.
1963	65.3	700.9	265.1	208 6	509.5	0.	υ.	0.			850.0	180.5	52.4	υ.	5 .	24.4		1005.
1964	64.0	719.9	234.6	265.7	400.2	Ο.	U.	Û.			764.1	128.2	\$5.6	Ū.	ú.	0.0		1019
1965	54.2	678.6	242.7	380.2	357.5	0.	u.	ο.	64.2	185.8	601.2	580.9	20.3	U.	0.	0.0	0.75	986.
1966	65.1	837.0	329.1	426.0	463.8	0.	υ.	0.	63.1	276.9	823.0	772.0	51.0	Ū.	Ű.	0.	0.30	1230.
1967	63.1	910.5	358.4	\$14.4	480.6	ο.	υ,	ο,	63.1	275.0	856.4	196.0	\$9.8	v.	Ú.,	υ.	9.28	1352.
1968	68.3	999.8	407.8	532.1	544.5	0.	υ.	ο.	61./	351.1	¥72.8	918.7	54 1	U.	Ū.	6.0	0.20	1407.
1969	63.3	823.2	1.505	437.5	436.6	0.	υ.	0.	63.5	251.9	765.0	085.1	79.9	Ŭ.	ō.	Ŭ.	0.50	1189.
1970	63.3	940.2	356.1	450.3	>36.3	0.	υ.	υ.	63.3	309.4	959.9	890.4	49 5	υ.	Ŭ.	0.0	0.20	1360.
1971	43.7	983.1	447.4	452.2	461.2	G.	ч.	υ.	63.7	336.6	886.4	841.9	66.4	υ.	<u>0</u> .	ΰ.	0.20	1644.
1972	64.4 1	050.8	40U.2	528.1	600.5	0.	υ.	ō.	64.4		1025.4		49.7	Ū.	ő.	Ŭ	0.20	1515.
1973	63.7	927.4	307.5	602.9	377.7	0.	υ.	0.	63.7		702.1	660.5	42.0	υ.	Ū.,	ີ່ຫຼຸ້ມ	0.30	1299.
1974	63.8 1	024.6	475.4	548.1	524.5	υ.	υ.	Ο.	63.8			1004-4	\$3.3	υ.	Ū.	0.0	0.20	1564
1975	65.1	776.7	294.9	413.2	407.1	ū.	υ.	٥.			155.8	647.9	65 B	`ü.	Ö,	0.0	0.0	1157.
1976	64.1	895.4	354,8	544.8	425,9	ο.	υ.	0				739.1	44.6	0	ů.	.0.0	U.40	1314.
1977	68.0 1	209.6	508.9	351.6	895.7	0.	υ.	Ο.	62.8		1518.8		62.0	σ.	ō.	299.3	υ.	1487.
1978	64.8	725.2	216.5	398.3	561.3	ō.	Ū.	ŏ.	62.9		603.0	518.0	85.5	Ŭ.	· 0.	1.9	u .ou	1004
1979	67.3.	825.0	315.5	461.3	434.5	ġ.	ū.,	Q.			754.7	645.7	65.5	ū.	ů.	9.8	0.50	1178.
1980	65.2	710.3	214.7	317.8	631.6	0.	υ.	õ.			674.7	590.4	80.1	ū.	ö.	4.7	0.00	986.
1981	64.7 1	063.9	409.7	431.7	640.4	Q.	Ū.	Ű.			1157.6		11.5	ő.	0.	1.4	0.50	1537.
1982	66.1	609.7	215.9	443.8	220.0	0.	υ.	0	58.5	155.8		584 . 2	40 D	ů.	0.	7.5	0.75	884
1983	65.7	982.5	375.4	533.2	537.5	ο,	υ.	Q.			916.2	485.1	28.1	α.	G.	5.4	0.35	1418.
AVERAGE	64.6	868.7	329.8	441.0	479.7	0.	U.	0.	63.1	277.9	841.8	771.1	\$5.0	U.	Ű.	15./	U.42	1247.

Table 47WATER DEMAND AND SUPPLY BALANCEOF INTEGRATED OPERATION SYSTEM (3/18)

Unit: 10⁶ m³

Sources Facilities: Pedu-Muda, Ahning, Jeniang Case 1 (Muda Priority)

Target Year 1990

	HUDA DEHAND (A)	NORTH	SOUTH	KEDAH WITHD. (D)	DEFIC.	JENLAHG VITHD. (F)			MUDA RELEA. (1)		TOTAL SEFIC. (K)		ESER AHNING (N)			REMAIN. DEFICIT (P)	NATE	
1961				269.3			87.5	Q.	63.1	179.2	745.2	697.7	47.5	Ų.	0.	U. 0		1253.
1962 -	63.1			202.0			107.3	0.	63.1		571.4		74.2	υ.	0.	0.0		1117.
1963	67.4			150.0		192.8	44.4	Ű.	65.5		1088-4	971.0	56.0	U.	e.	20.7		1378.
1964		745.2	314-1		447.9	149.1	76+2	Ű.	65.0		694.0	610.4	83.6	υ.	Ű.	4.8	4.40	
1985		754.1	.357.9		459.6		28.9	ο.	64.9	191.7	718.7	663.0	55.7	ο.	υ.	3.1	0.40	
1966	63 1	696.7	377.6	303.0	359.5		80.5	υ.	63.1		584 . Y	565.7	39+5	U.	0.	U.,	0+25	
1967		855.4		400.1			102.5	θ.	63.1		736.2	102-0	32.6	Ű.	0.	0.0	0.	1356=
1968	113.3	961.4		440.1		90.3	41.8	Û. '	0.58	318.2			45.9	. ∪ .	. 0.	51.5	U	
1969			386+0	330.0		150.2	55.0	0,	63.1				.41+7	0.	0. 1	0.0	0.25	
1970			420.3	340.2		208.9	83.2	0.	63-5	217.2	813.5	772.4	41.1	U.	9.	0.0	0.	1428.
1971		933,9		541.8			77.3	0.	63.1	280.2	823.0	780.1	56.9	U.	0.	0.0	U.	1520.
1972		1033.5		443.3		11-1	30.5	٥.	65.Z		1050.5		44.9	Û.	0.	2.0	υ.	1561.
1973		894.5	398,9			133.0	78.1	θ.	63.1	200.S		610./	33.1	υ.	Q.,	0.0	0.10	
1974			544.7		560-2		65.4	υ.		377.8		465.5	45.0	U.	0.	1.5	. V	1578.
1775			.370+7	345.0	442.7.		6Y.U	0.		171.8		641.5	41+5	U.	υ.	0.0	0.25	
1976	66 7	927.2	437.7	447 0	492.0		92.5	0.	66.4	190.6		722.1	36-3	U .	0 .	2.3	0.10	
1977	110.0			209.1	128.5	82.6	51.9	0.	62.0		1592*2		17.8	U.	ų.	239.9		1413.
1978	79.2			270.3		99.4	86.5	0.	62.9	151.4		\$53.7	38.6	ų.	0.	16.2	0.35	
1979		819.4	403.8	356.8	485.2	16.0	71.0	0.	57.8		792.3	153.1	39.1	υ.	.0.	38.6	0.25	1052.
1980		711.4	276 . 1	209.1	440.1	109.1	37.7	Ö.	64.4		201.7	637.2	64.5	U	Ua Ua	19 2 17 U		1542
1981.		1018.8	459.0	347.5	560.1	215-2	90.4	. U .	63.1		917.2	870.5 486.8	46.7	υ.	α.	35.0	0.40	
1982	93.6		307.0	360.7	307.4	74.6	5. 7	υ.	58.6		514.8		44.2	υ.	0. 0.	49.5	0.0	1625
1983	109.3	1034.0	511.3	453.8	655.7	94.5	40.2	υ,	61.1	22195	1101.0	102345	7416	4.	U e			14634
ERAGE			100 3	744 3	496.5	483 4	68.5	· .			805.9	764.0	~·	- 11.	·· 0.	23.4	0.18	1323.

	MUDA Demand	RORTH	DEHAND South (C)		DEFIC	JENIANG WIIHD: (F)		EASE REMAN (H)		SOUTH DEFIC. (J)	TOTAL Defic, (X)		ESER AHNING (M)			REDAIN. DEFICIT (P)		
1961	63.1	957.6	358.7	364.0	511.5	170.2	84.5	0.	63.1	186.3	775.1	696.1	79.0	0.	ο.	ο.		1379.
1962	65.5		313.4	358.1	427.5		105.4	U.	63.3	154.5	624.5	541.0	83.3	υ.	υ.	U		1263.
1963		924.0	562 U	208.6	640.6	184.2	45.9	0.	70.2	200.7	941.4	879.1	35 2	υ.	υ.	60.1		1352
1964	85.9		285.4	268.6	441.1	100.7	82,0	Ο.	67.9	150.1	. 856.9	631.5	25.5	U.,	υ.	18.0	0.50	1176
1965		836.7	314 U	380.2	646.5	142.2	29.1	0.	66.1	152.7	665.8	637.2	28.4	Ų.	υ.	13.7	0.50	1217.
1966			342.8	426.4		102.4	75.5	υ.	63.1	141.0	600.8	>>>.4	- 41-2	υ.	Ú,	υ.	0.25	1268.
1967	65.1	1015.9	416.4	518.2	506.3	119.2	81.4	Ο.		ZU1+1	180.1	123*2	52.6	υ.	D.	0.	ο.	1495.
1968	178.0	1122.7	467.1	557.4	5-806	86.9	46.1	. 0.	82.8	. 315+1		979.1	46.7	.ų.	0.	115-2	.6.	1653.
1969	64.6		348.0	457.6	441.7	158.9	48.6	υ.	64.5		684.1.	041±4	43.5	U.	0.	U.1	0.35	1526.
1970	66.8	1066.0	413.9	450.3	535.8	176.6	91.6	0.	64.3	207.5	823.8	182.5	58.0	υ.	U.	2.5	Ų.	
1971	67.7	1099.3	511.7	646.1	513.2	89,8	74.3	υ.	65+1	285.0		848.0	41.5	υ.	<u>0</u> .	2.6	ų.	1676
1972	75.0	1180.9	455-1	536.3	676.5	70.0	36 5	0.	66.2		1105.9		47.4	u.	ο.	8.8	0.	1702.
1973	65.6	1043.3	362.0	619.9	397.6	123.7	57.4	0.	65.5	200.7			51.0	0.	0.	.0.3	0.10	1762
_ 1974	73.5	149.9.	546.1	554.5	598.0	104.5	62.0	U	65+7	373.2	10/9+8	1055-2	46.7	.u.	0.	7.9	U. U.35	1258
1975	63.1	859.2	335.5	413.2	430.3	150.6	.64 U	· 0.			629.9		9.6	υ.	υ.	0.0	0.10	1592.
1976	75.1	1080.7	440.U	549.9	537.8	148.0	92.1	ο.		178.9		780+8	37.7	υ.	0.	7.9	U. U.	1568.
1977 -	187.0	1209.6	508.9	351.6	841.7	/8.6	57.0	Û.,	64.1		1567.4		49 5	υ.	0. U.	557-2 40.9	0.40	1185.
1978	105-6	850.3		397.2	403+4	94.9	90.7	0.		132-1		534.1	60.9	0. U.	Ŭ.	105.2	0.35	1341
1979	169.4	917.5		:461.3		15.9	57.0	0.	64.5	196.9	750.3	0.086	78.7	U.	· 0.	60.5	0.40	
1980	106.3	830.0	265.0	317.8		101.7	31.0	. U.	65.8	158.6	710.2	965.9	53.9	0	υ.	29.0	0.10	1754.
1981.	94 U	1190±9	475.1	433.1		226.1	93.0	· 0.	44.4		1019.8	519.1	34.5	υ.	ō.	93.8	0.40	1181.
1982	153 U			473.0	353.3	79,1	52.4	0.	60.6		575.2	996.9	43.6	U.	·0	93.9	0.10	
1983.	146.6	1561.4	463-6	539.1	648.4	88.8	52.0	Q e	\$0.0	£70+J	1049+4	,,047	4760					
AVERAGE	95.4	990.9	388.5	445.4	519.9	130.0	66.5	0.	64.0	217.0	819.4	758.1	49.3	U.	U.	41.7	0.22	1435,

WATER DEMAND AND SUPPLY BALANCE OF INTEGRATED OPERATION SYSTEM (4/18)

Unit: 10⁶ m³

Sources Facilities: Pedu-Muda, Ahning, Jeniang Case 2 (Intermediate)

Target Year 1990

	400H OHAMOD {A}	NORTH	<i>ФНАНЗФ</i> НТ 1102 (С)	WITHD.		ALLHD* ALLHD* TENIVHC	NAUK RE	SE Eman (H)	HUDA RÉLEA. (1)	0EF1C.	TUTAL DEFIC. (K)		ESER AHNING (M)	Y U I BER13 (N)		RENAIN. DEFICIT (P)		
1901 1902 1902 1903 1904 1905 1906 1900 1970 1973 1974 1975 1974 1975 1974 1978 1979 1980 1980 1981 1983	63.1 65.1 65.1 65.7 67.1 67.1 65.1 65.1 65.1 65.1 65.1 65.1 66.1 66	822.4 723.3 925.8 745.2 754.1	367.2 330.8 330.8 357.9 374.1 357.9 377.6 435.0 386.0 438.9 352.0 388.9 352.0 398.9 546.1 370.7 290.0 403.8 276.1 459.6 307.0	269.3 262.6 150.0 189.3 292.9 303.0 400.1	491.5 575.6 777.2 447.9 459.6 559.5 462.2 465.8 513.5 533.5 460.2 460.2 450.2 460.2 460.2 460.2 460.2 460.2 460.2 460.2 460.2 460.2 460.2 460.2 560.2 460.2 560.2 460.2 575.6 577.0	162.2 169.5 192.5 169.1 143.3 164.6			63.1 65.5 64.9 63.1 62.0 63.1 62.0 63.5 63.1 63.5 63.1 63.5 63.1 63.1 63.1 63.1 63.1 63.1 63.1 63.1	138.7 258.4 176.7 187.3 167.0 199.9 518.2 200.2 201.2 280.2 200.2 200.2 200.2 217.2 280.2 200.2 308.5 377.8 171.6 151.4 228.4 171.5 265.5 155.7 357.2	584.9 736.2 962.6 738.4 8738.4 8738.4 8738.4 8738.4 8738.4 1050.3 641.8 642.7 758.4 1265.3 592.4 792.8 792.8 792.8 792.8 791.2 514.6 1101.0	497.2 4971.6 414.4 63.4 703.6 946.8 946.8 772.4 698.6 7786.7 772.4 1005.4 6105.4 6105.7 870.5 755.7 637.2 870.5	74.2 56.0 83.6 55.7 39.2 32.6 45.9 41.7 41.7 41.7 41.7 41.7 41.7 41.7 36.9 41.7 36.9 41.7 36.9 51.1 45.6 31.1 45.6 31.1 45.6 31.6 56.7 47.8 44.2	U + U + U + U + U + U + U + U + U + U +		0.0 55.7 2.1 1.3 U.U 29.2 0.0 U.U 0.0 0.0 1.6 0.0 2.3 2.1 2.3 2.3 2.3 2.3 2.3 3.5 19.9	U.40 U.25 U.440 U.25 U. U.25 U. U.25 U. U. U. U. U. U. U. U. U. U. U. U. U.	1253. 1117. 1378. 1124. 1177. 1350. 1373. 1354. 1354. 1357. 1357. 1357. 1357. 1357. 1357. 1428. 1520. 1357. 1428. 1520. 1428. 1209. 1428. 1052. 1205. 12
AVERAGE	66.8	861.2	409,2	344.2	496.5	152.4	68.3	С.	63.1	228.8	805.9	745.9	47.0	U.	0.	16.4	0.10	1323.

	MUDA Demand (A)		DEMAND SOUTH (C)			JENTANG VITHD. (F)			RELEA.	SOUTH DEFIC. (J)	DEFIC.		ESER ANNING (M)			REMAIN. DEFICIT (P)	RATE	
1981	63.1	989.3	371.6	364.9	565 8	174.4	80.3	0.	63.1	196.4	824.7	744.8	79.9	U.	Q.	0	0.10	1424.
1962	63.3	886.1	313.4	358.1	427.3	174.2	105.4	0.	63.3	134.5	624.3	541.0	83.3	υ.	. 0.	. U.	0.40	1263.
1963 -		8.688	345.0	208.6	607.0	183.1	47.0	0	70.2	186.7	881.9	819.3	35.4	. Q.	0.	33.4	0.50	1278.
1964	73.5	823.1	285.4	248.6	441.1	164.7	0.58	ο.	47.9	150.1	656,9	631.5	25.5	ų.	Ū.	5.6	0.50	3176.
1965	79.6	836.7	314.0	380.2	446.5	142.2	29.1	υ.	66.1	152.7	665.8	637.2	28.6	υ.	0.	4.5	0.50	1217
1966	63.1	836.3	356.4	420,8	422.7	163.1	77.9	0,	63.1	152.2	658.8	597.1	41.6	υ.	0.	0.	0.20	1306+
1967	63.1 1	015.9	416.4	518.2	506.3	119.2	87.4	0	63.1	201.1	786.1	755.5	32 6	υ.	0.	0.	υ.	1495.
1968	103.6	1122.7	467.1	537.4	608.2	86.9	42.1	0.	62.8	315.1	1025.8	979.1	46.7	υ.	. 0.	40.7	υ.	1653+
1969	64.6	943.3	365.0	437.6	474.2	159.6	67.8	0	64.5	187.1	754.8	690.9	43 9	Ü.,	0.	0.1	V.30	1371.
1970	64 8	066.0	413.4	450.3	535.8	196.6	91.0	0.	64.3	207.6	825.8	785.2	38.6	υ.	0.	0.5	υ.	1544.
1971	67.0	1099.3	511.7	040.1	515.2	89.8	74.3	0.	65.1	285.6	887.8.	848.0	41.8	υ.	Ο.	1.9	U.	1676.
1972	68.9	1180.7	455.1	536.3	676.6	70.0	34.3	0.	66.2	318.7	1105.9	1058-5	47.4	υ.	0.	2.7	Ο.	1702.
1973	65.6	985.3	334.7	612.2	354.1	172.0	54.2	0.	65.5	177.5	590.7	560.6	30.1	υ.	0.	0.5	0.20	1385.
1974	68.3	1149.9	540-1	534.5	598.6	104.5	65.0	υ.	65.7	373.2	1079.8	1033.2	46.7	υ.	D.	2.0	.0.	1762.
975	63.1	826.7	348.4	413,2	458 6	150.6	64 0	0.	63.1		674.5		43.8	Ŭ.	Ŭ.	0.0	0.30	1298
1976	68.1	086.7	440.0	549.9	537.8	148.0	92.1	ò.	65.1		818.6		37.7	υ.	U	3.0	0.10	1592.
1977	160.9	209.6	508.9	351.6	841.9	18.6	51.0	S.	56.1		1367.6		49.5	υ.	8.	251.5	U	1568
1978	75.5	850.3	270.0	399.2	403.4	94.9	90.7	0	54.6	132.1	595.0	534.1	40.9	0	0.	10.9	0.40	1185
1979		948.3		461.3	506.4	74.0	66.3	Ó.		213.5		630.9	63 2	Ū.	ō.	123.5		1291
1980	77.5	\$89.9	291.1	317.3	543.0	104-8	31.9	0.	65.8	181.5	805.0	721.4	79.2	. U .	U.,	15.4		1243.
1931			473.1	433.1	633.7	226.1	93 Ú	Ó.	64.4		1019.8		53.9	υ.		8.7		1754
1982	86.0	798.8	325.4	473.0	555.3	79.1	52.4	٥.	60.6		\$75.2		54.5	υ.	ō.	29.0		1179.
1983	82.7	1161.4			648.2	88.8	\$2.0	σ.	60.6	296.3			43.6	U.	o.	37.1	0.10	
RAGE	73.8	945.7	390.7	445.1	525.3	130.3	66.1	0.	64.0	219.5	827.6	762.0	48.2	υ.	υ.	24.9	0.21	1435.

WATER DEMAND AND SUPPLY BALANCE OF INTEGRATED OPERATION SYSTEM (5/18)

Unit: 10⁶ m³

Sources Facilities: Pedu-Muda, Ahning, Jeniang Case 3 (Kedah Priority)

Target Year 1990

					1.1.1														
				OEHAND	KEDAH		JENLANG					TOTAL		ESER			REMAEN.		
	. *	DEMAND										9EF1C.		ANNING			DEFICIT		
		(A)	(8)	.(0)	(0)	(E)	(7)	(6)	(8)	_CD	00	(K)	(L)	CR)	(N)	(0)	(P)	(9)	(8)
1	961	63.1	\$22.4	367.2	269.3	491.5	162.2	87.5	0,	63.1	179.2	745.2	697.7	47.5	υ.	0.	0.0	U.35	1253.
1	1962 -	03.1	723.3	330.8	6.565	\$73.0	169.3	107.3	0.	63.1	138.1	5/1.4	447.2	74.2	σ.	0.	9.0	0.40	1117.
1	965	64 0	925.8	441.0	150.0	21.2	1 4 4	44.4	0.	64.U	250.9	1084.7	412.8	56.0	U.	Ο.	52.1	0.25	13/9.
1	964	63.8	745.2	314 . 1	189.3	447.9	170.3	76.2	u .	63.8	175.5	6YZ.7	609.1	83.6	υ.	υ.	υ.	V.+U	1123.
1	965	63.5	754.1	357.9	242.7	459.0	144.7	28.9	0.	\$3.5	185.9	111.3	001.4	35.9	U.,	0.	U.	0.40	11/04
1	966	63.1	690.7	377.0	303.0	359.5	164.5	80.3	0.	63.1	167.0	584.9	345.7	59.2	U.	υ.	0.	0.25	1137.
1	967	63.1	855.4	438.0	400.1	462.7	125.2	105.5 :	0.	63.1	199.7	736.2	103.0	\$2.0	υ.	0.	0.0	υ. ΄	1356
1	968	67 U	961.4	489.1	440,1	548.2	46.3	47.8	0.	62.0	318.2	962.0	Y10.0	45.9	U.	0.	5.0	υ.	1513.
1	969 .	63.1	819.7	386.0	330.0	465.8	156.2	55.0	ο.	63.1	200.7	758.4	676.0	61.7	υ.	υ.	0.0	U.25	1209
1	970	63.3	944.0	420.3	340.2	515.0	209.1	83.2	Ο.	63.5	216.9	813.3	172.2	41.1	0	ο.	0.0	V.	1428.
1	971	63.1	933.9	522.6	541.8	460.5	96.8	71.5	0.	63.1	280.2	0.258	/86 1	56.9	u.	0.	0.0	υ.	1520
3	972	63.7 1	0.58.5	457.7	443,3	636.4	72.5	36.5	0.	63.7	301.5	1048.6	1003.7	44.9	U.	ο.	0.	U	1580
1	973	63.1	874.3	398.9	504.4	377.1	133.6	78.1	0.	63.1	200.5	641.8	610.7	31.1	V.	υ.	0.0	0.10	1357
1	974	63.5	929 1	544.1	429.0	360.2	104.4	65.4	Ο.	63.5	376.5	1040.5	995.5	45.0	υ.	0.	0.0	0.1	1597
1	975	65.1	775.4	370.7	305.0	442.7	157.7	67.U	0.	63.1	171.8	682.7	641.3	41.5	α.	U.	0.0	U.25	1249
1	976	65.7	727.2	437.7	447.0	492.U	143+6	92.5	Ο.	03.7	187.9	757.6	721.5	56.3	U.	υ.	0.	0.10	1458
1	977	66.1 1	032.8	\$09.5	269.1	758.2	5.58	51.9	0.	61.9	380.4	1265.1		47.8	· U.	0.	196.0	θ.	1412
1	978			290.0	290.8	381.8	99 3	80.5	U.	95.9		592.0	222.2	58.6	U.	υ.	1.5		10/2
1	976	64.6			320.8	485.1	76+1	77.0	0.	39.0		145.0	153.6	39.0	0.	0.	5.0	0.25	1283
	989	64.4		276.1	209.3	460.1	109.7	37.7	0.	63.7		701.0	636.5	64.5	U.	0.	0.0	0.35	
1	981	54.0 1				560.1	215.4	90.4	D.	52.9		916.9	870.2	45.7	υ.	0,	1.1	0.10	
	982	54.2			360.7	307.4	14.5	52.7	0.	58.0		514.0		47.8	ο.	U .	5.0	0.40	1010.
1	983	65.3 1	054.0	511.3	433.3	653.7	¥4.8	40.2	ο.	30.8	330.9	1100.4	1054.9	44.2	U.	υ.	5.3	υ.	1625
YER	AGE	63.9	861.2	409.2	344.2	496.5	132.8	68.5	٥.	62.7	228.4	805.5	740.0	47.0	υ.	0.	11.9	U.18	1322.

. • 1	NUDA Demand (A)		DEHAND South (C)			JENIANG WITHD. (F)		EASE REMAN (H)		SCU18 9EFIC. (J)	TOTAL DEFIC. (K)		ESER AHNING (M)			REHAIN. DEFICIT (P)		
	· · · · · ·	GPO 7	171 .	364.0	443 4	1/4 4	80.3	0.	63.1	198.4	824.7	744.8	79.9	υ.	0.	0.		1624.
1961	63.1	826.1	313.4		427.3		105.4	α.	63.3	134.5	624.5	541.0		σ.	0.	0.		1203.
1962 1963		330.3	345.0		607 U	128.0	47.0	ŏ,	65.3	181.8	8/6.4	819.6	34-1	∵u.	0.	20.5	0.50	1277.
1964		823.1	285-4	268.6	441.1	170 0	82.0	õ.	64.6	140.8	653.2	\$27.8	25.5	υ.	ο.	0.0	0.50	
1965		810.7		380.2		144.0	29.1	0 .	64.2	150.9	663.7	635+1	28.6	U.	0.	0.0	0,50	1215.
			356.4			163.1	77.9	ō,	63.1	152,2	638.8	597.1	41.6	υ.	0.	0.	U.20	1306.
1966	63 1			518.2			87.4	<u>0</u> ,	63.1	201.1	786.1	753.5	32.6	e.	с.	0.	υ.	1495.
1987				557.4			42.1	ō.	61.7		1024.6	971.5	46.7	υ.	0.	6.0	Ű.	1651.
1968	68.3			437.6			47.8	0.	63.3		733.5	685.ó	43.9	υ.	0.	0.0	0.30	1370.
1969	63.3				535.8	147.6	91.0	0.	63.5	ZU6.6	842.7	/84.1	38.0	υ.	υ.	о.	υ.	1543.
1970	63 . 3			450.3		91.1	74.3	õ.	63.7	284.3	888.3	846.6	41.8	υ.	0.	០ប	U.	16/5.
1971	63.7		511.7	646.1	515.2	21.7	34.3	ŏ.	64.4		1103.8	1056.4	47 . 4	υ.	0.	0.0	υ.	1700.
1972	64.4		455-1	\$36.3			54.Z	ö.	63.7		588.9	558.8	30.1	υ.	0.	٥.	0.20	1384 -
1973	63.7		334.7	612.2		123.6		0.			1077.7		46.7	υ.	0.	ο.	υ.	1760.
1974	63.8		546.1				65.0		.0.3.0	768.7	674.8	A31.0		ů.	υ.	0.0	U.30	1278.
1975	63.1		348.4				64.0	0.	64.1	197.9	817.5	/79.7		Ū.	0.	0.0	0.10	1591.
1976	64 1			549.9	537.8	149-0	92-1		62.8		1363.8			υ.	υ.	220.5	U .₊	1566,
1977			508.9	351.6		81.7	57.8	0.	62.9	130.9	593.1	532.1		U.	Ó.	1.9	0.40	1183.
1978	64.8			399-2	402.9	96.7	90.7	0.	60.0	207.9	795.4	628.0		u.	0.	180.7	0.30	1288.
1979			373.1	461.3	506.0	11.7	66.3	0.	64.5	180.5	803.3			Ū.	υ.	1.7	0.30	1245.
1980	65.2			317.5	542.3	106 3	33.9	- U.	63.5		1018.0			υ.	Ο.	1.4	0.10	1753.
1981	64 7		475.1	453.1		227.2		0.	58.5	162.5	572.8	513.9		Ü.	θ.	11.5	U.40	1177.
1982	66.1		325.4	473.0		81.2	52.4		40.3	295.0	1049.0	494.4		U.	0.	15.0	0.10	16/6.
1983	65.7	1161.4	463.6	\$39.1	648.2	89.1	52.0	0.	an • 5	62347	10-710			••				
AVERAGE	64.6	995.7	390.7	445.1	525.2	131.8	66.1	0.	63.1	218.1	825.9	761.1	48.1	0.	0.	16.)	U•41	1454.

WATER DEMAND AND SUPPLY BALANCE OF INTEGRATED OPERATION SYSTEM (6/18)

Unit: 106 m³

Sources Facilities: Pedu-Muda, Ahning, Jeniang, Beris Case 1 (Muda Priority)

Target Year 1990

	8002 4"A"0 (4)		08 HAND South (C)			JERTANG RETHD. CED	REL NAOK (5)		NUDA RELEA, (1)		DEFIC.	R PEDU (L)	E S E R ANTING (M)		R T_HUDA (0)	REHAIN. OEFICIT (P)		OUTPUT
1941	31.1	484.8	374.1	269.5	558.5	136+1	75.0	υ.	63.1	238.8	883.7	733.5	49.8	100.4	0.	0.0		1342-
1962	63.1	766.2	363	263.0	456.9		100.1	Ο.	63.1	198.2	719.0	551.6	83.1	84.3	0.	0.		. 1213.
1943	67.4	089.2	42.9	150.0	477.	161.2	36 1	Ő.	64.6	271.4	1076-3	871.8	88.4	7.6.4	0.	55.7	0.30	1345.
1764	67.5	745.2	314.1	189.3	402.1	119.2	67.9	0.	64.3	206.1	742.5	607.8	28.7	104,2	ο.		0.40	1129.
1955	63.0	\$16.1	337.7	272.7	\$36.2	116.5	28.5	0.	64.2	233.5	855-3	735.7	31.1		0.		0.30	1598*
1966	63.1	765.1	421.1	394.0	457.	116.0	84.2	Ο.	63.1	225.9	736.7	564 6	43.5	158*9	σ.	0.	0,10	1252.
1967	63-1	8:5.4	438.0	400.1	404.0	100.1	102.9	0.	65 1	225.5	766.9	628+5.	33.3	105.2	0.	0.0	0.	1556-
1968	.113.3	961.4	439.1	440.1	554.0	23.1	44.6	О.	59 3		1043+0	907 Z	47.3	88.6	0.	0.	U.	1504.
1969	63.1	949.7	465.6	3:0.5	524.8	126.7	47.4	0.	63.1	305.5	1031+4	896.5	43.0	91.0	. 0.	0.0	0.	1498.
1970	63.5	944.0	420.3	340.2	525.7	178.1	73.2	ü.	63.5	246.0	858.8	683.5	43.2	135.1	0.	0.0	υ.	1428+
1971	63.1	733.9	522.6	541.3	401.5	76.7	75.6	0.	63.1	301.0	847.2	200.0	- 38.0	107.1	0.	0.0	0.	1520.
1972	67.2	1018.5	457.7	443.3	537.7	53.5	33.5	Q.	64.5.		1076.3	935.0	46.1	95.1	0.	0		1563.
1973	63.1	752.5	628.5	510.5	427.5	113.1	86.7	υ.	63.1		745.1	612.4	33.0		0.	0.	U.	1444.
1974	40.4	929.1	544 . 1	425 0	564.0	81.1	60.5	Q.	64 4		1072+1	919.0	45.9	107.Z	0.	0.0	0.	1600.
1975	63.1	¥10.3	440.7	305.9	505.1	126.0	65.8	ο.	63,1		946 .4	820.0	5.8	77.0	· Q.	0.0	V.	1414.
1976	66 . 7	938.Z	466.0	448.2	521.8	117.5	85.7	0.	63.8			743.5	. 38*5	112.5	0.	0.0	0.	1521.
1977	110.0	1032.3	509.5	269.1	702+9	64.2	52.0	ø.	60.Z		1333.5		49.5	109.0	0.	135+9	0.	1516.
1978	77.2	750.9	304.8	291.1	429.2	· ?0 .3.	77.1	0.	61.3	194.7		541.0		80.7	0.		0.30	
1979	73 4	819.4		356.8	496.5	62.7	59.2	0,	57.5		872.8		40.4	84 .8	Q.	- 21+2	0.25	1251-
1930		241.0		207.3	503.1	92.7	30.7	0.	62.8		798.3	651.8	70.5	76.0	· 0.	0.	0,30	1114+
1951		1982.5	491.1	348.4	624	191,5	92.8	0.	62.4		1064.8	867.6	49.4	147.8	Q.	0.	0.	1654.
1932			337.8	-367-8	359.9	62.6	52.1	0.	\$6.9		647.3	340.0	50.2	59.1	Q.		0.30	1130.
1783	197.	1054.0	511.3	423.8	659.3	75.6	43.5	0.	59.5	401.0	1178.1	1014.4	45.8	118.1	0.	0.0	υ.	1675.
AVERAGE	75.7	896.2	427.2	345.0	\$78	199.2	64.6	0.	62.3	278.5	908.1	748.9	48.2	99.1	0.	10.7	0,12	1388.

	RUDA DEMAND (A)		0E(IA))D SVUTH (C)	KEDAN VITND, (D)	40878 DEFIC. (E)		AEL Haok (g)	EASE REHAN (H)	MUDA Relea, (1)		TOTAL DEFIC, (K)	R PEDU (L)	ESER AHNING (M)	BERIS		REMAIN. DEFICIT (P)		OUTPUT
1961	63.1	189.3	571.6	364.C	\$\$6.2	142.9	74.0	ΰ.	63.1	223.3	866.7	683.1	82.1	101.5	0.	0.	0.30	1424.
1962	63.2	950.7	343.7	359.1	515.2	141.9	98.6	υ.	63.3	179.7	772.0	619.4	66.5	86.1	· 0.	ο.	0÷34	1358.
1963	85.E	8:6.8	245.6	292.6	626.5	150.1	32.4	. 0.	67.1	225.3	948.7	763.2	31.8	74.7	0.	71.1	0,50.	1247.
1964	85.9	323.1	205.4	ò.365	455.7	137.2	76.7	Q.	65.9	189.3	719.9	587.8	25.5	107.1	Q.,	Q.	.0,50	1195.
1965	77 8	9.995	342.5	380.2	532.4	117.5	24.7	0.	64 9	202.4	816-4	702.9	28.6	85.0	0.	0.0	0.40	1322.
1966	63.1	983.7	410.2	428.3	525.9	133.6	6.33	θ.	63.1	218.2	826.8	654.4	44.8	127.6	.0.	G .	ο.	1458.
1967	63.1.1	015.7	416.4	\$15.2	509+1	95.3	89.0	Ο.	63.1	229.8	810+9	672.3	35-9	106.1	0.	0.	0,	1495
1968	178.0 1		467.1	537.4	615+4	71.6	40.3	0.	59.1	444.0	1177.1.	1039.9	48.0	89.2	0.	0.0	0.	1768.
1769	64.6 1	003.4	393.2	437.6	549.9	131.6	41.8	0.	64.1	236.4	873.6	710.2	74.9	88.5	0.	0.0	0.20	1461.
1970	66.21	1944-0	413.9	450.3	548.1	170.1	73.0	Q.	63.9	236.4	871.6	712.7	40.2	118.7	Q.	0.	0.	1547
1971	67.7 1	1079.3	511.7	640.1	517.1	69.6	73.4	Ο.	64.2	308.4	917.2	757.3	42.2	117.7	0.	0.0	ο.	1679.
1972	75.01	180.7	455.1	\$36.3	679.7	52.3	31.3	0.	65.Z	345.6	1139.3	996.6	47.4	95.2	0.	0.0	0.	1711.
1973	65.6	101.3	387.3	a2o.3	450.3	108.1	61.9	υ.	64.9	242.6	769.9	636.1	54.7	. 99.1	0.	0.0	0.	1556.
1974	73.61	149.9	54ú.l	\$54.5	602.8	82.6	62.5	. 0.	64 7	402.4	1116,9	962.1	46 7	108.2	. Q.	Ο.	Ο.	1769.
1975	63.1	051.7	425.6	413.2	631.7	172.0	5.20	0.	63.1	246.7	976,0	857.4	44.0	74.6	0.	0.0	Ο.	1540.
1976	73.11	1150.5	468.4	551.5	612.1	121.6	85.8	0	64.3	256.6	965.3	803.7	40.4	114.1	0.	5.4	0.	1686.
1977	187.01	1209.6	508.7	351.6	247.9	62.5	60.0	σ.	61.9	521.6	1521.7	1053.9	52 Z	113.2	0.	272 2	0.	1635.
1978	195.6	3.519	290.9	399.0	475.1	77.5	82.0	. 0.	62,4	215.6	770.8	550.0	65.5	80.1	0.	57.8	0.30	1247.
1979	169.6	948.3	373.1	461.3	517.9	61.7	49.2	0.	60.7	338.0	953.2	679.Z	68.2	87.6	0.	106.4	0.30	1385.
1980	106.7	889.9	291.1	317.8	553.9	86.7	30.4	0.	63.5	235.6	877.3	611.9	78.5	76.1	ġ.	99 7	0.30	1188.
1981	94.01	1262+4	504.9	435 3	704.1	200*2	91.6	ο.	63.4	369.0	1192.4	847.3	56.3	154.9	0.	120.5	0.	1742.
1982	153.0	352.8	354.0	478.6	405.9	71.7	54.4	0.	58.1	291.2	774,5	594.0	57.5	51.7	0.	64 Z	0.30	1296.
1983	146.6	233.1	498.8	539.1	724+6	73.4	48.Z	0.	\$8.8	434.2	1287.6	1031.0	45.7	118.2	Ū,	83 4	0.	1795.
AVERAGE	95.4 1	034.1	407.3	446.2	\$72.5	108.2	67.5	0.	63.2	286.3	954.2	762.0	50.2	98.9	0.	38.8	0.15	1500.

WATER DEMAND AND SUPPLY BALANCE OF INTEGRATED OPERATION SYSTEM (7/18)

Unit: 106 m³

Sources Facilities: Pedu-Muda, Ahning, Jeniang, Beris Case 2 (Intermediate)

Target Year 1990

	NUOA DEHAND		DEHAND South			JENIANG WITHO:		ASE			TOTAL		*******			REMAIN. DEFICIT		
	(A)		: (()	(D)	(8)	153	(6)	(H)	(1)	(1)	(K)	(L)	(1)	(N)	(0)		(9)	(8)
1961	63.1	1040.7	401.4	269.5	701.6	151.9	62.4	Ű.	63.1	317.0	1151.7		55.4	10U.Y	Ū.	6.5	U.	1559.
1962	63.1	723+3*	330.8	262.6	392.5	157.5	101.4	υ.	63.1	160.2	613.9	452.0	79.7	82.2	0.	0.0	U.40	1117.
1963	66.7	852.5	406.8	450.0	659.8	161.0	36.1	υ.	64.0	254.5	1015.8	820.2	64.1	78.2	υ.	48.0	0.35	12/8.
1984 .	67.1	711.5	297.1	129.2	427.3	137.7	69.5	0.	66.3	187.7	683.4	549.4	28.7	103.5	0.	υ.	0.45	10/0.
1985	06 . Z	816.1	387.9	292.9	239:5	116.5	28.0	0.	64.2	231.7	833.3	736.5	51.1	\$5.1	0.	0.	0.30	1270.
1966	65.1	815.8	450.0	304.8	-85.4	139.9	85.0	9.	63.1	252.9	818.1	644.0	43.9	130.1	0.	ប្រុប	U.	1329.
1967	63.1	855.4	438.0	400-1	464.8	100.1	102.9	Ο,	63.1	225.5	766.9	628.5	33.3	105.2	· 0.	0.0	θ.	1356.
1968	91.Z	961.4	489.1	440.1	554 U	81.0	44.6	υ.	59.3		1018.5	884.6	47.3	88.0	Ο.	0.	Ū.	1542.
1969.	63.1	969.7	465.6	330.0	524.8	128.7	41.4	0.	63.1	303.5	1051.4	896.8	43.0	91.6	` 0 .	0.0	v.	1498.
1970	63.5	944.0	420.5	540.2	520.9	178.1	73.2	Ο,	63.5	246.0	8,8,8	683.5	43.2	132.1	0.	0.0	Ū.	1428.
1971	65.1	933.9	\$22.0	541.8	461.5	16 7	75.0	0.	63.1		847.2		38.0	109.1	0.	0.ប	υ.	1520.
1972	66.8	1038.5	457.7	443.3	634.7	53.5	33.5	0.	64.5	328.5	1075.8	¥34.6	46.1	95.1	0.	0.	υ,	1503.
1973	65.1	952.5	428.5	510.5	427.5	113.1	86.7	0.	63.1	245.1	745.1	61.4	55.0	99.1	0.	υ,	υ.	1444.
1974 -	66.0	989.1	544.1	429.0	564.0	81.1	60.5	Ū.	44.4		10/2.1		45.9	101.2	υ.	U.U	Ú.	1000.
1975	63.1	910.3	440.7	305.0	585.1	128.6	65.8	0.	03.1	266.6	946.4	826-6	42.8	77.0	0.	0.0	u.	1414.
1976	66.7	988.2	406 .U	446,8	561.8	117.5	85.9	Û.	63.8		874.1			112.5	Ū.	0.0	υ.	1521.
1977	83.4	1032.8	\$09.5	289.1	762.9	64.7	58.0	Ο.	40.2		1304.0		49.5	109.4	0.	12.5	υ.	1613.
1978	70.5	719.9	540.0	290.8	398.1	19.7	78.2	υ.	61.3		653.1		66.2	86.2	υ.	0.0	0.35	1080.
1979	74.1	789.3	369.2	350.8	468.4	62.0	59.8	с.	57.5	248.U			05.0	84.5	υ.	0.	0.30	1253.
1980	72.2	741.0	264.5	207.3	503.1	42.9	30.7	ō.	62.8		785.7		/0.5	76.0	U,	U.	0.30	1103.
1981		1082.5	491.1	348.4	624.6	191.3	92.8	Ū.	62.4		1053.5		49.4	147.8	0.	0 ,	U.	- 1644.
1982		671.2	322.4	364.3	538.4	66.3	\$1.0	0.			585.8		50.0	59 1	Ö,	0.	0.35	1046.
1983			511.5		059.3	15.0	45.5	U,			\$745.2			118.1	Ű.	0.0	U.	1645,
RAGE	5.80	845.4	426.>	344.8	>37.0	110.3	64.1	υ.	62.3	2/1.4	879,0	148.5	48.3	99.2	U.	2.9	0.12	1388.

	ADDA DEHAND (A)		DEAAND SOUTH (C)			JEHLANG WITHD. (F)		EASE REMAN (H)	HUDA RELEA. (1)		TOTAL DEFIC. (X)		ESER AHNING (N)			REMAIN, DEFICIT (P)		TOTAL OVIPUT (R)
1961	63.1	989.3	371.6	364.0	556.2	142.9	74.0	0.	63.1	223.8	866.7	683.1	82.1	101.5	ο.	0.	0.30	1424.
1962	63.1	950.7	343.7	359.1	515.2	141.8	98.6	0.	63.3	179.7	772.9	622.7	63.2	86.1	Ο.	٥.	0.30	1358.
1963	79.1	8.658	345.4	208.6	628.6	156-1	32.6	0.	67.1	218.6	941.3	771.8	31.8	74.7	σ.	56.6	0.50	1255.
1964	73.5	823.1	235.4	268.6	458.7	137.2	74.7	Ο.	65.9	175.9	706.2	574.0	25.5	107.1	Ο.	α.	0.50	1382.
1965	70.6	879.9	342.5	380.2	532.4	117.0	24.7	Ο.	64.9	193.2	806.2	692.6	28.6	85.0	0.	0.0	0,40	1313.
1966.	63,1	963.7	410.9	423.3	525.9	133.6	68.6	· 0.	43.1	218.2	826.8	654.4	44.8	127.ð	0.	0.	с.	1458.
1967	. 63.1.1	1015.9	416.4	518.2	507.1	95.3	89.0	0.	63.1	220.3	810.9	672.3	32.6	106.1	9.	0.	Ο.	1495.
1968	103.6 1	122-7	467.1	537.4	615.4	71.6	40.3	0.	59.1	369.5	1076.4	957.1	48.0	89.Z	0.	0.0	θ.	1693.
1969	64.6 1	123.5	453.5	437.6	672.2	133.0	40.3	· 0.	64.1	294.5	1074 1	936.8	46.1	91.2	Ο.	0.0	0.	1642.
1970	64.3 1	060.0	413.9	450.3	548.1	170.1	78.0	0.	63.9	234.4	869.4	212.8.	40.2	110.3	σ.	ο.	0.	1545.
1971 -	. 67.0 1	099.3	511.7	646-1	517.1	69.6	73.4	0.	64.2	307.7	916.4	756.5	42.2	117.7	υ,	0.0	0.	1678.
1972	68.9 1	180.9	455.1	536.3		52.3	31.8 -	0.	65.2	339.5	1132.5	989.8	47.4	95.Z	0.	0.0	0.	1705.
1973	65.e.1	101.3	389.3	626.3	450.3 :	108.1	63.9	ο.	64.9	242.6	769.9	636.1	34.7	99.1	0.	0.0	0.	1556.
1974	68.3	149.9	546.1	554.5	602.8	82.6	62.5	Ο.	64.7	397.1	1111.0	956.1	46.7	108.Z	0.	Ο.	Ο,	1764
1975	63.1 1	051.7	425.6	413.2	431.7	122.6	63.2	0.	63.1	246.7	976.U	857.4	44.0	74.5	Û.	0.0	ο.	1540.
1976	68.1 1	1022.9	411.6	548.2.	482.7	117.8	85.8	0	64.3	203.8	762.3	605.8	39.1	117.8	ο,	0.0	0.20	1503.
1977	100.9.1	209.6	508.9	351.6	347.9	62.5	60.0	0.	61.9	435.5	1426.1	096.6	52.2	113.2	σ.	147.7	Ο.	1672.
1978	75.5	912.2	296.9	399.6	478.1	77.5	82.0	. 0.	62.4	185.0	737.4	590.5	66.7	80 Z	Ο.	C .	0.30	1285.
1979	92.9	948.3	373.1	461.3	519.9	61.7	49.2	0.	60.7	261.3	868.D	633.7	68.8	87.0	ο.	70.2	0.30	1344.
1980	77.5	829.9	291.1	317.8	553.9	86.0	30.4	α.	63.5	204.8	845 3	678.9	80,2	77.1	0.	5.8	0.30	1250.
1931	73.11	263.4	504.9	433.8	704.1	200-3	91.6	0.	63.4	348.2	1149.Z	951.6	56.4	157.9	ο,	3.0.	0.	1838.
1982	86.0	\$52.8	354.0	478.4	405.9	71.7	54.4	٥.	58.1		700.0		57.5	48.8	α.	64.3	0,30	1229.
1983	82.7 1	233.1	498.8	539.1	724.6	73.4	48.2	۵.	58.8	370.3	1216.6 1	006.2	45.7	118.2	ΰ.	41.7	Ο.	1773.
AVERAGE	73.8 1	8.220	409,5	446.0	572.2	108.1	62.5	0.	63.2	265.2	930.4	763.4	48.9	99.1	0.	17.0	0,15	1500.

WATER DEMAND AND SUPPLY BALANCE OF INTEGRATED OPERATION SYSTEM (8/18)

Unit: 106 m3

Sources Facilities: Pedu-Muda, Ahning, Jeniang, Beris Case 3 (Kedah Priority)

Target Year 1990

	HUDA Demang (4)		DENAND Suuth (C)			JENIANG VITRD. (f)	RELI NAOX (G)				TOTAL Defic. (K)		ANNING	Y 0 1 0ER15 (n)	T.NUDA	REMAIN. DEFICIT (P)	CUI RATE (V)	10TAL Output (R)
1961	43.2	1040.7	601-4	269.5	701.0	151.7	62.2	υ.	63.1	317.0	1131.7	972.9	5545	100.9	0.	2.2	V.	1503.
1962		723.3		262.6			101.4	Q.	63.1	160.2		652.0	79.7	82.2	ų.	0.0	0.40	1117
1963		852.5	406.8		059 8	161.7	36.1	0			1012.8	833.0	63.8	78.2	υ.	. 51.1	V-35	1272
1964		711.5	277.1		427.3		69.5	Ŭ.,	63.8		679.7		28.7	102.2	U .	U.	U.45	10/3.
1965		816.1	387.9	292.9			28.0	υ.	65.5	229.1		735.6	51.1	85.7	0	υ.	0.30	1268
1966		815.8		304.3		119.9	85.0	0.	63.1	252.9		644.U	43.9	130.1	0.	0.U	υ.	1329.
1967		\$55.4	438.0	400.1			102.9	ō.	.63.1		760.9	628.5	33.3	105.4	U.	0.0	υ.	13.6
1968	67 10	961.4			554 U	81.0	44.0	υ.	59.3		991.0	855.7		68.0	U	ο.	.U	1518.
1969	63.1	969.7	465.6		624.8	128.7	47.4	Ū.	63.1		1031.4		43.0	91.0	U.	0.0	U.	14+8.
1970	65.5				526.9	178.4	73.2	0.	63.3		858.6		43.2	132.1	0.	0.0	θ.	1428
1971	63,1		522.6		401.5	10.7	75.0	ŏ.	63.1		841.2		38.0	109.1	U.	0.0	0	1520.
					439.7	54.3	35.5	Ö.	63.7		1072.4			95.1	υ.	0.0	υ,	1500.
1972 .		1038+5				113.1	50.7	Ŭ.			745.1		53.0	99.1	0.	Ű.	U √	3444
1973		952.5	428.5				69.5	0.			1008.7		45.9	107.2	υ.	0.0	U	1597.
1974		989.1	544-1		564.0	31.9		U.	63.1		940.4		42.8	77.0	Ű.	0.0	Ú.	\$414.
1975		910.3		305.0		128.6	65.8	υ.	63.7		890.8				Ű.	0.0	U.	1518.
1976	63.7		466.0	448.3		117.7	85.9				128417			109.4	Ū.	3.9	Q	1445.
1977		1032.3	509.5	209.1		04.9	ຽນ.ນ	. 0.			626.6			86.2	ŏ.	0.0		1074
1975			290.0		398.1	79.7	78.2	:0.						84 ð	ŏ.		0.10	12+3
1979			389.2	356.8	465 4	0.50	57.8	Q.	57.5		785.5			76 U	0			1095
1980		741.0			503.1	¥3.0	30.7	0	62.0		277.0			147.8	ŏ.	ũ.	U.,	1658
1981		1052.5	491.1		024.0	191.3	92.3	υ,	62.4		1046.9	507.3	- 50-2	5y 1	σ.	ŭ.		1100.
1982		648.3		367.8	359.9	68.6	52.1	U.	56.9		616.7				0.	0.0	U.	1631.
1985	65.5	1054.0	511.5	453.8	928-2	15.6	43.5	υ	59.5	221-0	1129.2	402.3	+3+0	118.1		V • 0		10111
AVERAGE	63.9	896.5	427.2	345.0	538.0	110.5	64.2	ο.	52.2	Z67.Z	895.3	146 . U	48.3	97.2	υ.	1.6	0.12	1386.

	5U0 4	MADA	DEMAND	KEDAH	NORTH	JENIARG	13 R	EASE	MUDA	SOUTH	TOTAL	R	ESER	Y 0 I	8	REMAIN.	CUT	TOTAL
	DEMAND	NORTH	KTUOZ	WITHO.	0E11C.	WITHD.	NACK	RENAN	RELEA.	DEFIC	DEFIC	PEDU	AHNING	8E812	T_MUDA	DEFICIT	RATE	OUTPUT
	(A)	(8)	(C)	(0)	(E)	(F)	(6)	(#)	(1)	(1)	(K)	(L)	. (H)	(N).	(0)	(P)	(9)	(8)
*******	*				*					******			*******	******		*******		
1961	63.1	1052.8	397.5	364.0	614.0	148.5	68.4	.0.	63.1		966.0	777.4	87.3	100.7	0.	0.3		1513.
1962		950.7		359.1	515,2	141-8	98.6	, 0 .	63,3		772 0	698 - 4	59.0	85.8	0	16.9	0.30	
1963	65.3	886.8	345.6	208.6	628.6	158.1	32.6	0.	65.1	204.7		717.6		75.3	σ.	91.1	0.50	
1964	64.6	823.1			458.7	136.5	74.7	ΰ.	64.6	168.0	696.3.		25.5	107.1	0.	0	0.50	
1965		899.9	342.5		.532.4	118.4	24.7	0.	64.2	186.3	799.1	685+6	28.6	85.0	0	0.0	0.40	
1966		983.7		428.3	525.9	133.6	88.6	Ο.	63.1	218.2			44.8	127.6	0.	0.	ο.	1458.
1967	63.1	1015.9	416.4	518.2	509.1	95.3	89.0	0.	63.1	220*8	810.9	672.3	32+6	106.1	0.	Q.	0.	1495
1968	68.3 1			. 537.4	615.4	72.0	40.3	0.	58.6		1055.2			2, YS	0.	0.0	Θ.	1658
1969	63.3			437.6		133.8	40.3	0.	63.3		1072.0	935.3	. 46.1		0.	0.0	. 0.	1640.
1970	63.3 1			450.3	\$48.1	170.7	78.0	. Q.	63.3	232.9	867.7	211.2	40.2	116,3	0.	0.	σ.	1543.
1971	63.7			646.1	517.1	70.1	73.4	:0.	63.7		912.8			117.7	0.	0.0	0.	1675
1972	64.4			536.3	679.7	53.1	31.8	ο.	64.4		1127.4		47.4	95.2	0.	0.0	Ū.	1700.
1973	63.7			626.3	450.3	109.3	63.9	Q.,	63.7		767.8		34.7	99.1	Q.	0.0	0.	1554
1974	63.8			554.5	602.8	83.5	62.5	0.	63.8		1106.0	951.2	46.7	108.Z	0.	0	0,	1760.
1975	63.1			413.2	631.7	122.0	63.2	0.	63+1	246.7		857.4	.44.0	74.6	0.	0.0	σ.	1540.
1976	64.1			551.5	612.1	12* .8	85.8	· Q.	54.0	247.7		798.5	40,4	1.14.1	0.	2.1	0.	1681.
1977	68.0 1	1209.6	508.9	351.6	847.9	63.6	60,0	Q.	60.8	402.6	1389.4	1053.5	52.2	113.1	0.	153 6	0.	1633
1978		912.8		399.6	477.6	78.5	85.0	0,.	61.4	175.4		524.5	65.7	80.1	0.	49.8	0.30	1225.
1979		948.3		461.3	519.8	64.5	49.2	0.	58.1	235.8		608.0	68.8	87.6	0.	67.7	0.30	
1980		829.9		317.8	553.7	86.4	30.4	0.	63.1	194.8		668.9	80.2	. 77.5	0.	4-6	0.30	
1981	64.7			433.8	764.1	201.0	91.6	.0,			1159.8	945.9	56.4	154.4	0.	1.0	σ.	1832.
1982	66.1			478.6	405.9	73.0	54.4	0.	- 56.8		677.9		57.5	50.3	0.	51.8	0.30	1221.
1983	65.7	1233.1	498.8	\$39.1	724.6	73.4	48.2	0.	58.8	353.4	1197.8	1015.3	45.7	118.5	0.	16 .4	0.	1781.
							1.1											
AVERAGE	64.6 I	1042.1	413.1	646.2	290*3	109+2	62.Z	. 0.	62.4	259.4	933.0	763-1	48.9	99.0	0.	19 8	0.13	1500

WATER DEMAND AND SUPPLY BALANCE OF INTEGRATED OPERATION SYSTEM (9/18)

Unit: 106 m³

Sources Facilities: Pedu-Muda, Ahning, Jeniang, Beris, Reman Case 1 (Muda Priority)

Target Year 1990

	AUDA DENAND (A)			WETHD.	HURTU DEFTC, (E)	JENIANG WETHD. (F)				SOUTH DEFIC. (J)	TOTAL DEFIC. (K)		ESER ANNING (M)			REMAIN. DEFICIT (P)		10TAL OUTPUT (R)
1961		1040.7	401.4	269.5	645.4	151.9	99.0	190.1	63.1	146.3	879.7	733.3	52+0	94 3	0.	0.0	0.	1565.
1942		912.2	423.7	265.7	523.5	143.4	107.4	162.7	63.1			629.3	44.8	63.3	· 0.	0.0	0.10	1404.
1963	67.4	1108.8	\$26.6	150.0	703.8	161.0	38.8	102.4	64.0		1317.8		56,0	98.3	0.	59.2	0.	1644.
1984	69.3	947.6	415.7	189.3	642.0	146.9	63.5	170.2	64.3		886.8	698.6	87.1	101-5	0.	0.	0,10	1433.
1965	68.0	940.0	448.0	272.9	650.5	110.7	31.Z	116.3	54-2	184.2	927.4	709.4	84.7	91.3	0.	37.8	0.10	1418.
1956	63.1	768.1	421.1	394.9	153.3	1.8.9	148.3	228.9	63.1	16.7	411.1	379.0	32.1	0.	0.	0.	0.10	1252.
1967	63.1	855.4	438.0	400-1	438.4	100.1	123.9	190.1	63.1	40.7	\$32.3	\$02.5	27.8	0.	0.	0.0	0	1356.
1968	113.3	951.4	487.1	443.1	530 S	81.0	54.0	204.5		194.6	805.6	659.3	44.7	101.6	0.	0.0	<u>0</u> .	1564.
1969	63.1	969.7	465.0	330.6	604 - 7	128.7	57.4	157.8		155.9	845.1	716.7	41.7	86.7	0. 0.	0-0	0. U.	1428
1970	63.5	944.0	420.3	340.2	477.2	178.1	85.0	229.4		54.4	590.7	541.3	36.5	13.0		0.0		1520.
1971	63.1	9:3.9	522.0	\$41.8	418.3	74.7	113.5	224.0		82.2	556.1	500.7	28.0	27.4	0.	0.0	0. 0.	1563.
1972	67.2	1018.5	457.7	443.3	577.5	53.5	71.8	192.5		180-4	819.9		47.2	98.U	0.	Ű.	0	1444
1973	63.1	952.5	428.5	510.5	385.4		108.4	216.0		47.5	481.1	438.8	28.6	13.7	0.	0.0	ů.	1600.
1974	66.6	987.1	544.1	429.0	\$56.9	81.1	65.U	206.8		196.6	837.3	488.0	45.9	72.4	0.	0.0	ŭ.	1414.
1975	63.1	910.3	440.7	305.0	547.1	128+6	77.2	162.4		130.8		638.3	42.6 34.0	3.2	õ.	0.0	0.	1521.
1976	66.7	988.2	-466-0	448.8	499.4	117.5	114.7	243.3			\$91.8	554.0	48.2	108.0	ä.	0.0	ō.	1652.
1977	110.0	1032-8	509.5	269.1	753.5	64.9	52.1	181.3			1138.6	.982.4	38.6	70.2	ŏ.	ő.	0,10	
1978	79.2	\$74.8	363.8	291.1	504.5	85.2	110.7			150.0		618.3	41.9	96.0	. Ö.	0.0	0.10	1456.
1979	94.4	910.0	647.7	356.8	552.1	66.6	41.4			176.5		693-9	73.4	78.1	0	0.	0.10	
1980	83.6	859.4	343.0	209.3	611.3	94.0	54.6	136.2		142.6		686.2 660.2	43.4	94.5	Ö.	Ŭ.	Ű.	1654 -
1931		1022.5		343.4	578.1	191.3	91.3	241.3		140.0		570-3	29.1	45.0	ů.	σ.σ	0.10	
1982	93 E	3û6.8		381.7	386.2	74.9	108.0	98-4		193.8		807.8	44.3	113.7	0.	0.0	υ.	1675.
1983	109+3	1054.0	511.3	433.3	634.3	75.6	51.4	185.1	28.2	\$32.0	965.9	00140			••			
AVERAGE	75.7	951.3	453.9	345.7	555.6	111.4	81.1	179.3	62.3	145.5	779.0	660.3	45.6	68.4	0.	4.2	0.03	1477.

	HUDA DEMAND (A)		DEMAND SOUTH (C)	KEDAH Vithd. (d)	HORTH DEFIC. (E)	(F) Alihd° Tenivng		EASE REMAN (H)	RELEA.	SOUTH DEFIC			ESER AHNING (M)			REMAIN. DEFICIT (P)		
1961 1962 1963 1964 1965 1966 1967 1968 1969 1971 1972 1973 1975 1975 1975 1975 1975 1978 1979 1980 1981 1981 1982	63.3 85.8 979.8 63.1 178.6 64.6 66.8 67.7 75.0 66.6 73.6 673.6 63.1 187.0 105.6 105.6 105.6 106.3 94.0	1148.1 1148.2 1221.4 960.6 963.2 959.3 1015.9 1122.7 1123.5 1180.9 1180.9 1180.9 1180.9 1150.5 1209.6 1209.6 1209.6 1209.6 1209.6 1233.1		360+1 208+6 269+3 380-2 427+9 318+2 537+6 437+6 537+6 536+3 646+1 536+3 5546+3 5546+3 5546+3 5544+5 413+2	6354,2 519,2 954,1 561,8 574,9 407,4 475,4 472,4 472,4 472,4 472,4 472,4 472,4 472,4 472,4 472,3 407,1 575,3 408,3 551,4 407,1 575,5 408,8 575,5 408,8 575,5 408,8 575,5 405,4 575,5 405,4 575,5 405,4 575,5 405,4 575,5 405,4 575,5 405,4 575,5 405,4 575,5 551,4 575,5 551,4 575,5	158.4 141.0 117.8 132.8 95.3 71.6 95.3 170.1 69.6 52.3 108.1 82.6 122.6 122.6 122.6 122.6 52.3 108.3 82.6 52.3 108.3 82.6 52.3 108.3 82.6 52.3 108.5	111.2 36.9 37.3 1.2 97.4 51.6 951.6 46.6 96.8 164.5 70.5 116.7 54.6 67.5 116.7 54.6 07.5 116.7 58.6 29.8 94.1 108.4 55.7	140-4 92.3 170.2 1111.1 225.1 199.7 160.7 217.9 239.3 195.7 244.8 195.5 1158.9 136.3 255.6 158.9 136.3 255.6 186.3	63.3 67.9 64.9 63.1 59.1 63.9 63.1 59.1 63.9 64.2 65.9 64.2 64.7 63.4 64.7 64.3 64.3 64.3 64.3 58.3 8 58.1	9522 2824 2840 2840 2840 2840 2840 2840 28	032.7 1374.6 750.9 787.7 480.4 575.1 942.7 608.6 608.6 611.5 886.1 509.5 886.1 509.5 885.2 801.8 658.8 658.8 820.6 8	3040-30 624-8 668-29- 545-7 790-5 754-4 565-9 754-4 569-4 741-4 569-4 741-4 683-0 614-7 1150-1 569-3 702-3 640-3 702-3 541-0 913-9	\$1.6 88.9 28.1 28.5 46.1 22.5 46.1 36.5 29.4 46.1 36.5 29.4 46.3 36.2 1 46.2 36.2 36.2 36.2 29.4 46.3 36.2 29.4 46.3 36.2 29.4 46.5 28.4 36.5 28.5 46.5 28.5 46.5 28.5 46.5 28.5 46.5 28.5 46.5 28.5 46.5 28.5 28.5 29.4 46.5 28.5 29.4 46.5 28.5 29.4 46.5 28.5 29.4 46.5 28.5 29.4 46.5 28.5 29.4 46.5 29.4 28.5 29.4 46.5 29.4 28.5 29.4 46.5 20.5 29.4 46.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20	94.0 57.5 110.1 98.2 90.9 0. 105.5 31.1 105.4 8.7 105.4 8.7 105.4 8.7 105.4 8.7 105.4 8.7 105.4 8.7 105.4 8.7 105.4 8.7 105.4 8.7 9.7 105.4 8.7 9.7 105.4	0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0	0. 153.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.05 0.20 0.05 0.30 0.30 0.30 0.30 0.30 0.30 0.05 0.05	1813. 1423. 1878.
AVERAGE	95.4	1080.2	430.Z	446.5	577.0	109.0	79.1	178.9	63.2	152.0	810.0	00446	4047					

Table 54 WATER DEMAND AND SUPPLY BALANCE OF INTEGRATED OPERATION SYSTEM (10/18)

Unit: 106 m³

Sources Facilities: Pedu-Muda, Ahning, Jeniang, Beris, Reman Case 3 (Kedah Priority)

Target Year 1990

	NUDA M DEMAND ND (A) (RTH		KEDAH Witko. (0)	NORTH DEILC. (E)	JENIANG Withd. (F)	REL NAUK (G)	(H) 86444 6426	RELEA.	50UTH DEFIC. (J)	TOTAL DEFIC. (K)		ESER AHNING (M)	V O I BERIS (N)	R T.NUDA (0)		RATE	
		1		269.5		161 0	00.n	190.1	43.1	146.3	879.7	729.0	52.0	98.6	0	0.0	0.	1505.
1961	63.1 104				596-3		104.9	162.1		162.7	843-2	731.1	45.6	66.6	0.	0.	0.	1500.
1962	63.1 97				903.8	161.7	38.8	102.4	63.9	278.8.	1314 0	1090.0	56.0		0.	62.6	0.	1637.
1963	64.0 110			150.0	642.0	147.4	63.5	170.7				689.9	87.1	103.2	0.		0.10	1427.
1964			415-7	292.9	650.5	117.3	31.2	116.3		179.7	922.4	718.0	85.1	90+2	0.	26.2	0.10	1425.
1965		0.0	448.0	304.0	353 3		148.3	228.9		16.7	411.1	379.0	32.1	U -	0	0.	0.10	1252.
1965		8.1	438.0	400.1	438.4		123.9	190.1		40.7	532.3	502.5	29.8	0	0	0+0	0.	1356.
1967		1.4	439.1	440.1	530.5	\$1.0	5440	204.3		148.2	754.2	618.6	44.7	90.9	0.	0.	0.	1518.
1968		9.7	465.0	330.6	604.7	128.9	57.4	157.8		155.9	845.1	712.4	41.7	91.0	0.		.0.	1478.
1969 1970		. 5	420.3	340.2	177 8	178.4	85.0	229.4		54.4	590.5	541.0	36.5	13.0	0.	0.0	Q.	1428.
1971		3.9	522.0	541.8	418.3		113.5	224.0	63.1	5,58	556+1	500.7	28.0	27.4	0	0.0	0.	1520.
1972	63.7 103		457.7	643.3	576 7	54.3	71.3	192.5		157.7	816.0	680.7	41.2	96 1	0.	0.	0 .	1560.
1975		2.5	428.5	510.5	385-4		108.4	216.0		47.6	481.1	435.8	28.6	13.7	0.	0.	0.	1444.
- 1974		9.1	544.7	429.0	556.9	81.9	65.0	206.8	63.5	193.5	853.9	1.756	45.9	100.9	0		.0.	1597.
1975		õ. 3	440.7	305.0	547.1	128.0	77.2	162.4			753.2	638.3	42.46	72.4	о.	0.0	0.	1414.
1976		8.2	466 - 0	448.3	499.4		115.0	242.9		30.4	588.6	-554.6	34.0	.0.	0	0.0	0.	1518.
1977	66.1 103		509.5	269.1	753.5	65.9	\$2.1	181.7		226.9	1089.4	933.0	48.2	106.1	0.	0.	0.	1608.
1978			363.8	291.1	504.5		110.7	117.8	61.3	134.9	710.4	60.0.1	38.6	71.7	0.		0.10	1303.
1979		0.0	447.7	354.8	\$\$2.1	64.6	63.4	165.3		162.7	794.2	664.3	41.9	88.U	· Û.		0.10	
1980		9.4	343.0	207.3	611-3	94.1	29.8	136.2	62.6		816.3	689.3	45.2	81.9	0	. <u>0</u> .	0.10	1267
1981	54.0 108		491.1	348.4	578 1	191.8	91.3	241.7	62.4	123.8	779.9	659.1	43.4	77.4	0.	0.	0.10	1638. 1270.
198Z	64.2 80		399.5	381.7	180.2	74.9	103.0	98.4	\$6.9	164.4		537.6	29+1	45.0	<u>.</u> 0	0.0		
1983	65.3 105			433.8	634.3	75-6	51.4	185.1	59.5	191.0	917.0	768.2	44.3	104.4	0.	0.0	0.	631
AVERAGE	63.9 95				\$58.5	113.4	81.1	179.3	62.2	134.9	770.5	654.9	44.4	66.3	0.	3.9	0.03	1469.

	AUQA Demand (a)		DEMANO SQUTH (C)			JEN1ANG VITHD. (F)	REL Naok (6)	EASE REMAN (H)	- NUDA RELEA. (1)	SOUTH BEFIC. (J)	TQTAL DEFIC. (K)	PEDU	AHNING	V 0 I 8eris (n)	R T_MUDA (0)	REMAIN. Deficit (P)		
1961		170 2	449 2	344 0	A72 6	151.8	100.8	192-0	A3.1	167.8	911.5	759.8	51.8	99.9	0	0.0	0.	1692.
1962	63.3							160.4			682 7	508.7	49.9	64 . 1	0.	0.	0.20	1453.
1963			476.5			160.3		92.2				1086.0	68.3	108.6	0.	26.2	0.10	1700.
1964	64.6		387.0	269.3	640.3	144.7	74.1				843.7	658.1		95.3	ò.	0.	0.20	1481.
1965	64.2 1		399.5		646.3	118.4	30.7		64.2		872.8	678.5	78.9	92.0	0.	3.1	0.20	1487.
1966			356.4	426.8	329.3		132.2	218.7		5.0	371.5	340.3	31.2	0.	0.	0.	0,20	1306+
1967	63.1 1		416.4	518.2	475 4	95.3	99.1	202.1		42.2	575.1	545.7	29.4	0.	a .	9.	0.	\$495.
1968	68.3		467.1	537.4	586.9	72.0	56.3	208.9		137.9	805.3	669.7	44.2	91.5	0.	0.0	0.	1658+
1969	63.3		453.5	437.6	652.6		46.6	160.4		146.1	887.5	745.1	46.1	94.3	0	0.0	0,	1640.
1970	63.3		413.9	450.3		170.7	97.4		63.3	45.7	605.4	549.4	36.0	: 0.	0	0.0	Q.	15-3-
1971	63.7		511.7	646.1	472.1		109.1		63.7.		605.7	545.9	34.5	25.4	o.	0.0	ð,	1675-
1972	64.4		455.1	536.3	615.3	53 1	64.5		64.4		874.2	737.1	42.2	94.9	0.	0.0	0.	1700.
1973	63.7			626.3	406.5	109.3	80.1		63.7		508.0		30.6	7.8	о.	0.0	α.	1554.
1974	63.8		546.1	554.5	595.3	83.5	67.3	205.4		189.9	872.4	721.9	46.7	103.9	0.	0.	0.	1760.
1975	63.1			413.2	603.3	122.6	70.5	147.5		118.3		683.0	44.0	74.8	`O.	0.0	0.	1540+
1976	64.1		468.4	\$51.5	551.4		116.7	244.6	64.0	32.8	669.2	614.7	34.3	0.1	0.	0.	0.	1683.
1977	63.0		508.9	351.6	335.5	63.6	54.5	195.8	60.8	224.6	1178.0	1021.5	48.2	108.3	G	0.0	Q.,	1786-
1978	64 8		323.8	400,1	488.3		120.0	115.1		99.9	653.6		36.8	70.3	0.	0	0.20	1364.
1979	67.3	1009.9	401.9	461.3	540.9	65.8	58.4	158.9	58.1	135 .5	751.6	620.5	. 41.6	89.6	0.	0.0	0.20	1479+
1980	65.2	949.7	316.5	317.8	594.8	87.1	29.8	136.3	63-1	102.7	775.0	640.4	48.5	86.1	0	0.0	0.20	1332+
1981	64 .7			433.8	652.6	201.0				160.2		749 4	49.6	81.9	α.	°a.	0.	1833.
1982	66.1	960.8	415.4	489.9	433.6	78.5	108.9	5.83	56.8	186-1	688.5	605.7	35.0	47.8	0.	0.0	0,10	1442.
1983	65.7	1233.1	498.8	539.1	693.8	73.4	\$5.7	180.3	58.8	196.4	989.2	840-2	44.4	104.5	0.	0.	0.	1798.
AVERAGE	64.6	1085.3	\$33.0	\$\$5.7	583.5	110.0	78.8	178.7	62.4	123.8	785.9	671.2	46.2	67.1	0.	1.3	0,07	1583.

WATER DEMAND AND SUPPLY BALANCE OF INTEGRATED OPERATION SYSTEM (11/18)

Unit: 106 m3

Sources Facilities: Pedu-Muda, Ahning, Jeniang, Beris, Tawar Muda Case 1 (Muda Priority)

Target Year 1990

			. 1. A.A.															- 1 - E
	HUDA	NĂDA	DEHAND	KEDAI	(109 T))	JENIARG	86L	EASE	NUOA	SOUTH	TOTAL	. R	ESER	V O I		REHALM.		
	DEH VI'D	нокти	SQUTH	WIIIND*	OFLC.	AIIHD"	RAOK	REHVI	RELCA.	DEFIC	DEFIC.	PEDU	AHNING	8ER I S	TaNUDA	DEFICIT	RATE	001201
	` . (A):	(8)	(0)	(0)	(8)	(1)	(0)	(H)	0	(1)	(K)	(L)	(H) .	(N)	(0)	(P)	(0)	(R)
1961		1040.7	461.4	267.5	715.5	106.7	61.4	0.	63.1	348.7	1182.9	933.4	61.4	102.4	86.7	0.	0.	1566.
1962		723.3			416 1	75.5	69.0	ŏ.	63.1		671.0	430.1	84.6	79.1	76.8	ō.	0 40	1117.
1963	67.4		423.9		720.7	123.3	23.6	0	63.3		1133.0	882.7	51.7	89.7	60.8	51.4	0.30	1329.
1984			314.1		430.4	102.7	61.7	ŏ.	63.6		.790.6	573.3	28.7	105.2	83.8	0.	0.40	1129.
1965		816.1		292.7	545.4	82.3	27.6	ŏ.	63.4	257-4		714.0	31.1	85.8	64.9	0.	0.30	1275.
1966		815.8			499.2	101.2	67.3	ď.	63-1	272.8	880.0	615.1	46.3	130.3	90.4	ŏ.	č .	1331.
1967	63.1	355.4	438.0	400.1	171.6		101.1	ΰ.	63.1	250.1	301.8	585.2	35.0	103.8	79.7	ŏ.	ŏ.	1358.
1968	113.7	961.4		440.1	563.0	60.3	44.9	ă.	55.4		1070.2	871.9	47.9	91.1	60.5	<u>.</u>	a.	1565.
1969	63.1	969.7		330.6	640.7	92.0	40.8	ŏ.	63.1		1079.0	874.7	43.0	88.8	73.5	ō.	ŏ.	1499.
1970		744.0		340.2	553.5	127.1	54.9	. ŭ.	63.5		926.7	652.1	45.8	132.8	97.2	ō. ·	0	1431.
1971		713.9		541.8	472.6	54.2	62.2	0.	53.1	325.8		662.7	39.8	106.2	79.7	0.	0	1521.
1972		1038.5		443.3	643.7	33.7	30.3	0.	63.7		1102.8	887.7	46.2	97.5	70.2	ŏ.	ō.	1564.
		752.5		510.5	437.8	26.0	72.7	ö.		272.0		548.7	37.4	105.0	80.8	ō.	ō.	1445.
1973				129.0	567.6	55.3	56.4	ő.			1105.6	885.8	46.3	101.4	73.9	ů.	ŏ.	1601.
1974		909.1			591.1	91.0	59.1	<u>0</u> .	63.6 65.1	374.3		801.9	44.1	78.1	71.8	ö.	ŏ.	1415.
1975		910.3		395.0	567.2	85.4	77.8	ŏ.			939.5		39.4	113.6	94.6	ů.	e.	1523.
1976		728.2							43.2				52.1	108.5	66.7	0	0.	1653.
1977	110.0		507.5	269.1	769.4	43.5	62.9	0. 0.	57.1		1356.3	506.7	69.8	87.7	73.Z	0	0.30	1135
1978		750.9	304 8	291-1	449.1	57.8	63.7				737.2	729.6	44.2	83.9	63.2	40.4	0 20	1326.
1979		349.6		356.8	537.4	45.0	41.0	0.	54.5		965.8	611.0	77.0	75.9	67.3	σ.	0.30	1115.
1980		741.0		209.3	516.1	65.5	28.6	g.	60.2	231-4			53.9	145.9	103.0	0.	0.30	1655,
1931		1022.5	491.1	348.4	643.5	151.0	37.5	0.	51.5		1117.1	816.0 510.3	52.9	60.1	45.6	0.	0.30	1130
1982		696.3		367.8	364.6	54.5	51.6	<u>0</u> .	54.6		668.1		47.9	116.1	70.4	ō.	ö.	1675.
1983	109.3	1054.0	511.3	433.8	665.7	53.0	45.0	0.	57.4	419.1	1205.4	A11"5	*(• Y	110.1	10.4	••	••	1075.
AVERAGE	75.7	903.6	430.6	345.0	553.2	30.7	57.0	· 0.	61.2	307.7	982.1	735.2	49.0	99.1	75.4	4.0	0.11	1407.

		RUDA DEMAND (A)		DEHAND South (C)	KEDAH VITHO. (D)	NORTH DEFIC. (E)	JENTANG VITHD. (F)	REL NAOK (g)	EASE REMAN (H)	NUDA RELEA. (1)	50UTH DEFIC. (J)	TOTAL DEFIC. (K)	R PEDU (L)	E S E R AHNING (N)			REMAIN. DEFICIT (P)		TOTAL OUTPUT (r)
	1961 1962 1963 1964 1965 1966 1967 1967 1970 1971 1972 1973 1973 1974 1975 1974 1975 1974 1975 1976 1980 1980	63.3 85.8 85.9 79.8 63.1 178.0 64.6 66.8 67.7 75.0 66.8 67.7 75.0 65.6 73.6 73.6 73.6 73.6 105.6 106.3 105.6 106.3 94.0	122.7 1003.4 1066.0 1099.3 1180.9 11101.3 1149.9 1051.7 1150.5 1209.6 912.8 948.3 889.9 889.9 889.9 889.9 889.9 889.5 889.5 889.5 8	371.6 313.4 378.3 319.2 342.5 410.4 467.1 373.2 413.9 57.1 373.2 413.9 511.7 373.2 455.1 455.1 455.1 455.1 455.455.	364.0 358.1 203.6 269.3 380.2 48.3 518.2 537.4 457.4 554.5 554.5 357.4 457.4 357.4 457.4 357.4 457.4 357.4 457.4 357.4 457.4 357.4 457.3 357.4 457.3 357.4 457.3 357.4 457.3 357.4 457.3 357.4 457.3 357.4 457.3 357.4 457.3 357.4 457.3 357.4 457.3 357.4 457.3 357.4 457.3 357.4 457.3 357.4 457.3 357.4 457.3 35.4 477.8 47.	567.1 476.3 729.2 546.1 553.0 546.7 513.3 625.4 555.2 571.1 525.5 605.5 605.5 606.3 640.4 456.5 600.4 619.4 853.0 500.6 500.6 500.6 500.4 500.4 853.0	104.3 100.5 122.2 103.3 84.2 96.1 67.5 94.8 131.1 83.1 83.1 83.1 83.1 83.1 83.1 8	44.4 44.4 44.4 47.9 99.9 47.9 99.9 47.9 99.9 47.9 47		63.1 63.3 63.5 63.5 63.1 54.4 63.1 54.4 63.4 63.4 63.4 63.5 63.1 63.4 55.6 59.3 55.6 59.3 55.6 55.6 55.6 55.6 55.6 55.6 55.6 55	263.8 271.9 330.7 363.5 257.9 428.9 279.9 292.4 538.3 231.4 361.6 251.3 394.5 306.1	881.2 862.8 888.3 839.4 1203.7 921.0 936.7 951.4 1165.7 793.7 1150.2 1022.3 1013.2	644.7 517.9 908.3 664.2 680.2 623.8 623.8 623.8 626.1 1004.3 711.6 670.7 722.7 923.3 740.6 11324.3 740.6 11324.3 740.6 11324.4 924.0 924.0 924.0 924.1 924.0 924.1 924.0 924.1 924.0 924.1 925.1 925.2	84,5 48.9 325,5 28,6 46,4 432,6 46,4 432,7 46,6 45,4 46,4 45,4 46,0 346,0 346,0 346,0 346,0 346,0 346,0 346,0 346,0 346,0 346,0 346,0 346,0 346,0 346,0 346,0 366,0 366,0 366,0 366,0 366,0 37,0 366,0 37,0 37,0 37,0 37,0 37,0 37,0 37,0 37	101.7 83.6 77.1 106.3 84.6 129.1 104.5 90.9 90.2 128.8 110.5 97.8 108.5 97.8 108.5 77.0 111.0 83.6 83.6 83.6 83.6 115.0 115.0 115.0 115.0 152.2 53.6 116.5	90.3 755.5 86.2 66.2 66.2 78.4 78.4 73.9 96.5 70.3 74.0 69.2 76.5 77.3 74.0 69.2 69.2 69.2 69.2 13.8 73.8 74.0 69.2 75.5 71.3 74.0 69.2 75.5 71.3 74.0 75.5 77.5 77.5 77.5 77.5 77.5 77.5 77	0. 43.3 2.9 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	0.30 0.40 0.40 0.40 0.40 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	1425, 1263, 1282, 1298, 1319, 1460, 1497, 1462, 1569, 1462, 1542, 1542, 1558, 1711, 1542, 1771, 1542, 1745, 1424, 1424, 1860, 1241, 1821,
A	1983 VERAGE	140.6 95.4		498.8 410.9	539.1 446.2	733.8 589.3	79.6	55.9	0.	61.3		1001.0		49.3	99.1	75.6	24.1	0.14	1521.

Table 56WATER DEMAND AND SUPPLY BALANCEOF INTEGRATED OPERATION SYSTEM (12/18)

Unit: 10^6 m^3

Sources Facilities: Pedu-Muda, Ahning, Jeniang, Beris, Tawar Muda Case 3 (Kedah Priority)

Target Year 1990

	800A 068440 (A)		DEHAND SUUTH 163			JENIANG WITHD. (53	REL NAUX (G)			0EF1C.	IOTAL DEFIC. (X)		ESER AHNING (MJ	BERIS		REMAIN. DEFICIT (P)	RATE	
1961	63.1	1040.7	461.4	289.5	715.9	106.7	61.4	0.	63.1	348.7	1182.9	933.7	61.4	102.0	86,9		0	1506.
1962		723.3	330.8	262.6	616.1	98.6	89.0	0.			671.0	430.2	84 6	79.7	76.6	0.		1117.
1963		962.4	458.1	150.0	795 .7	123.3	23.6	Ο.	63.3	358*0	1248.0	939.0		80.7	61.0	99.1	0.20	1385
1964	63.7	312.7	347.9	185.3	\$47.7	105.1	54.5	0.	63.0	259.2	896.0	665.U		106.7	83.7	Q		1225.
1965		754.1	357.9	292.9	435.5	82.4	27.4	Q.	63.4	223.8	785.1	608.1	31 1	84-1	64.9	.0.		117.6
1966		315 8		304.3	199 2	101.2	57.8	0	63.1	8.562	880.0	615.1	46.3	130.3	90+4	σ.	·V.	1331.
1967	63.1	855.4	435.0	400.1	471.0		101.1	0.	63.1	250+1	801.8	585.2	35.0	103.8	79.7	0.	0 .	1358.
1768		961.4	487.1	440.1	563.U	60.3	44.9	٥.	55.4		1018-8	820.5		91.0	60-5	α.	α.	1519.
1969		969.7	465.6	330.6	640 7	82.3	40.8	θ.	63.1		1079.0	874.7		88.0	73.5	0.	υ.	1499.
1970			420.3	340.2	\$\$5.5	137.3	\$4.9	0.	63.3		924.5	051.9		132.8	97.2		· 0 -	1430
1971		933.9	522.6	541.8	472.0	54.2	5.53	Ο.	63.1		887.1	662.7	39.8	106+2	7917	0.	0.	1521.
1972	63.7	1038.5		443.3	645.7	55.7	30.3	υ.	63.6		1098.9	886.0	46.2	97.5	70.2	0.	ų.	1561.
1973			428.5	\$10.5	439.8	86.0	72.7	Ο.	63.1		790.7	568.7	37.4	105.0	8048	0.	0.	1445
1974	63.5	989.1	544.1	429.0	567.4	55.9	56.4	0.			1102.2	882.4		101.4	73.9	0.	U	1578.
1975			640.7	305.0	591.1	91.6	59,1	Ο.			994.9	801.9		78.1	71.8	0.	0.	1415.
1976		988.2		448.2	\$69,Z	85.4	77.8	.0 e	63.Z		936.2	691.0	39.4	115.0	94.6	0.	0.	1520
1977		6.520		269.1	769.4	43.5	62.0	0.	57.1		1507.4		52.1		66.47	0.	<u>.</u>	1609
1978	64.1	750.9	304.8	291.1	449.1	57.8	63.7	0.	58.8		720.5		69.8	87.47	73.2	0.	0.30	1120.
1979	64.6	849.6	418.4	356.8	537.4	45.0	41.0	θ.	54.5			737.0	44 5	84.0	63.2	Q.	0.20	1333.
1980	64.4	741.0	269.5	209.3	516-1	68.5	28.6	0.	60.Z	212 1		589.4	77.0	75.9	67.3	0.	0.30	1075
1981	64.0	1082.5	491.1	345.4	643.5	151.0	87.5	0.	61.4		1099-1	798.1	53.9	145.9	103.0	·Q.	0	1639
1982	64.2	752.5	368.6	374.7	409.Z	57.0 .	53.8	0.			717+0	573.8	32.2	65.3	48.5	0.	0.20	1186.
1983	65.3	1054-0	511.3	433.8	665.7	53.4	45.0	Ο.	57.4	375.1	1150.5	923.0	47.9	116+1	70.4	0.	0.	1631.
AVERAGE	63.9	909.4	\$33.6	345.3	563.6	80.9	57.0	0.	61.2	298.8	958.2	730.8	48.9	97.3	75.5	4.3	0.10	1403.

	NUDA DEMANO (A)		DEMANO SQUTH - (C)			JENIANG WITHD. (F3	REL NAOK (G)	EASE REMAN (N)	NUDA Relea. (1)	SOUTH DEFIC. (1)	TOTAL DEFIC. (K)		ESER ARNING (MJ	86815		REMAIN. Deficit (P)		
1961	63.1	989.3	371.0	364.0	567.1	104.3	64.4	0.	63.1	261.2	92U.3	074.4	54.8	101.4	90.6	0.	U.30.	1425.
1962	63.3		343.7	357.1	539.9	101.7	80.9	0.			827.7	395.2	77.1	85.5	.75.3	0.	U.30	1359.+
1963	65.3	961.1	378.3	4.305	729.2	122.4	19.4	0			1101+1	895.1	51.1	76.4	57.3	34.8	U_40	1370.
1964	64.6	871.3	319.2	267.3	546-1	103.3	61.5	U.			857.5	640.5	25.5	100.5	86.2	0.	U.40	12/6.
1965		899.9	342.5	389.2	553.0	84.2	17.9	α,	63.5	207.9		466.4	28.6	84.6	54.2	. 0.	U.40	
1966		983 7		428.3	546 7	96.1	70.7	0.	63.1	252.8	888.3	623.8	46.4	129.1	91.4	0.	Ο.	1460.
1967	63.1	1015.9	416.4	518.2	513.3	67.1	91.5	Ο.	63.1	242.2	859.4	626.1	52.6	104.5	78.4	; O.	Ū.	1497.
1968	68.3	1122.7	467.1	537.4	625.4	53.5	39.1	0.	54.4	348.2	1081.8	882.5	48.0		61.4	0.	ų.	1659.
1969	63.3	1123.5	453.5	437.6	687 . 5	46.5	34.9	0.	63.5	320.5	1120.0	911.2	46.9	84.5	73.8	Q.	υ.	1641.
1970	63.5	1066.0	413.9	450.3	571.1	151.2	58.8	Û.	63.5	268.4	93Z.8	666.8	43.4	128.8	96.4	· 0.	υ.	1546.
1971	63.7	1079.5	511.7	645.1	525.5	46.2	61.1	Q.,	5.20	526.8	944.9	118.3	42.7	110.5	20.5	ų.	α.	1676
1972	64.4	1180.9	455.1	536.3	685 . 6	\$2.3	29.4	0.	63.8	352.8	1155.9	940.6	48.0	96.7	70.3	0.	U.s	1702.
1973	63.7	1101,3	389,3	626.3	56.5	83.5	68.3	ο.	63.7	256 U	791.0	582.6	35.0	97.8	/7.3	0.	U a	1556
1974	63.8	1149.9	546.1	554.5	606+3	56.8	59.5	0.	63.5	419 1	1159.3	912.4	46.7	108.2	24.0	υ.	9.	1761
1975	63.1	1051.7	425.4	413.2	640.1	90.1	53.9	ο.	63.1	279.9	1022.3	832.3	45.0	77.0	69.9	0.	U.	1542.
1976	64 . 1	1150.5	468.4	551.5	619.4	87.4	71.0	Q.,	63.4	283.5	1003.5	751.8	\$1.0	112-0	97.2	. 0. 1	. U.	1684+
1977	68 . 8	1209.6	566.9	351.6	853.0	\$2.5	63.5	0.	56.5	419.5	1415.7	1144.5	54.9	115*7	79.1	28.4	V	1758.
1978	64.8	850.3	279.0	399.2	436.7	56.9	68.0	0.	58.8	165.4	669.Z	440.5	/1.7		. 70.4	0.	0.40	1185.
1979	67.3	948.3	373.1	461.3	534.9	.47.8	30.7	0.	54-6	259.4	882-6	662.1	71.7	86.7	63.1	Q.,	0,30	
1980	65.2	889.9	291.1	317.8	566 . 4	63.9	28.1	0.	5.9.8	210.5	862=9	634.7	80.4	76.0	67.0	0.	0.30	
1981	64.7	1263.4	504.9	433.8	731.1	157.2	8 4	0.	61.2		1218.2	898.2		151.6	112.1		U	
1982		852.8		478.6	408.4	5.86	53.9	Q.e	54.3		677.5	545+2		55.8	40.4	0.	U+10	
1983	65.7	1233.1	498.8	\$39.1	733.8	51.8	47.8	. 0 .	56.2	268 8	1225.1	484.5	47.7	118.4	70.4	Q	u.	1348-
AVERAGE	64.0	1042.8	413.7	446.2	594.0	19.8	55.8	0.	61.1	285.5	975.8	749.7	49.4	99.2	75.6	8.5	U.13	1519.

WATER DEMAND AND SUPPLY BALANCE OF INTEGRATED OPERATION SYSTEM (13/18)

Unit: 10^6 m^3

Sources Facilities: Pedu-Muda, Ahning, Jeniang, Beris, Khlong Thepha, Case 1 (Muda Priority)

Target Year 1990

			11															
ay _ a = d = =	HUDA DEIIAND : (A)	PADA 10611 (11)	SUUTH	WEIND.	70811 DEFIC. (2)	JENIANG #TTHO. (E)	NELE NAOX (G)	АSE REHAN (Н)	HUDA RELEA. (1)	SOUTH DEFIC	TOTAL DEFIC. (K)	РЕД U (L)	E 5 E R ANN1NG (27)	V 0 1 08815 (N)	R T_1140A (0)	REMAIN. DEFICIT (P)	CUI RATE (4)	101AL 001201 (8)
			441.4		797.8	151.2	02.2	0.	63.1	317.0	1151.7	975.2	55.0	109.9	Ű.	0.0	0.	1565.
1995		317.7	379.3	264.1		1.5.5	59.5	0.	63.1		771.0	600.9	83-1	87.4	۵.	0.	0.25	1261.
1963	67.4		441.0		734.8		16,1	э.	64.6	237.7	1136.0	866.5	5.07	73.2	0.	95.2	0.25	1339.
1764	67 .	346.4		182.2		143.3	63.3	0.	64.3	257.2	911.4	763.6	40.2	107.6	0	U.	0.25	1281.
1965		347.1			566.2		28.5	0.	64.2	247.6	998.4	727.6	31.1	83.7	Ο,	57.6	0.25	1260.
1986		720.5		303.2	71.2	1.6	77,8	0.	63.1	202.1	659.3	487.3	43.3	128.7	Q.	0.	0.20	1176.
1767	63.1		438.0		464 8		102.7	U.	63.1	225+5	766.7	428.5	33.3	105.2	Ο.	0.0	0.	1356.
	113.2		487+1		\$55.0	81.J	44.8.	Û,	59.3	384 +7	1043.0	907.2	47.3	88.6	ο.	Ο.	0.	1544.
	63.1			330.0		128.2	47.4	θ.	63.1	393.5	1031.4	896.8	43.0	91.6	٥.	0.0	ü.	1496.
1970			420.7	340.2		178.1	72.2	0.	63.5	245.0	553.3	483.5	43.2	132.1	ο.	0.0	υ.	1428.
1971	63.1		522.6	541.3	461.5	76.7	75.5	0.	63.1		847.2	760.0	38.0	109.1	Q.	0.0	0.	1520.
1972		1018.5			\$39.7		33.5	Q.			1076.3	935.0	40.1	95.1	0.	5.	0.	1563.
1973		252.5	428.5	516.5			86.7	0.	63.1	243.1	745.1	612.4	33.0	99.7	9.	Ο,	0	1444.
1774				429.0		×1.1	60.5	υ.	44.4		10/2.1	919.U	45.9	-107.2	υ.	0.0	υ.	1600.
1475	65.1	410.5	440.7	345.0		122.0	05.3	u .	63.1		946+4	820.0	42.8	77.0	ΰ.	0.0	Q.	1616.
1976		2.8.5	466.0	448.8	201.8	117.5	C. 25	. 0.			894 2		38+2	112.5	0.	0.0	θ.	1521.
1977		1072.8	509.5	265.1	702.9		28.U	.0.			1353.5		49.5	109.0	0.	135.4	υ.	1517.
1978		312.8		291.1	473.1	21.3	76.2	0.	61.3		795.5		40.3	86.7	ο.	0.0	0.20	1226.
1979		819-4	403.3	356.3	496.5	1 54	59.Z	е.	\$7.5	289.0	872.8	747.0	41.1	84.3	ο.	0.0	0 25	1322.
1950		770.6	302.2	209.1		91.5	30.3	0.	62.8	227.7		698.7	71.2	76.1	0.	0.0	0.25	1157.
1981		1022.5	491.1	348.4		121.3	\$5.59	0.			1064.3	867.6	49.4	147.8	0.	Û.	ΰ.	1654.
1982		725.4	153.2	371.3	385.4	70.3	\$3.2	0.			o89.0		52.2	57.6	υ.	0.0	U.25	1172.
1983	107.3	1054.0	511.3	433.0	557.3	75.6	45.5	0.	57.5	401.0	1178.1	1014.4	45.0	118,1	0.	0.0	Ο.	1875.
VERAGE	75.7	914.7	435.7	345.1	557.1	110.5	61.5	0.	62.3	287.3	935.2	777.1	45.0	99.1	Q.	12.5	0.09	1414.

	MUDA Demand (a)		0CHAND 500TH (C)			JENTANG VLTHD, (F)	REL NAOX (g)	EASE REMAN (H)			TOTAL DEFIC. (K)		ESER AHNING (M)			REMAIN, DEFICIT (P)		TOTAL OUTPUT (A)
1961	63.1	929.3	371.6	364.0	556.2	142.7	74.0	0.	63.1	223.8	866.7	714.4	50.3	102.0	0.	0.	0.30	1424.
1962		950.7	343.7	355.1	515.2	141.8	8.59	0.	63.3	179.7	772.0	597.5	88.4	85.1	ο.	0.	0.30	1356.
1963		1075.5	411.1	208.6	781.5	157.3	31.4	Ο.	87.1	6.685	1186.3.	979,2	59.8	78.5	0.	62.3	0.30	1470.
1964		391.8	3.19.42	269.3	520.1	178.7	73.2	θ.	\$5.9	223.7	833.1	701.7	28.1	103.4	Ð.	<i>o</i> .	0.40	1297.
1965	77.8	895.7	342.5	380.2	532.4		24.7	0.	64.7	202.4	314.4	703.2	28.5	84 7	0.	0.0	0.40	1322.
1966		983+7	410.9	428.3	525.9		85.5	0.	63.1	218.2	826.8	654.4	44.3	127.6	с.	Q.	0.	1458.
1967	63.1		416.4	518.2	509.1		87.0	0.	. 63.1 .	51025		672.3	32.6	106.1	0.	0.	ο.	1495.
1968	173 0		467.1	537.4	615.4		40.3	ο,	59.1			039.9	48.0	89.2	0.	a.o	Ο.	1758.
1969		943.3	363.0	437.6	487.7		42.5	0.	64.1	208.4		642.6	44.5	86.3	0.	0.0	0.30	1371.
1970	5.66		413.9	450.3	543 1		78.0	. 0.	63.9	236.4	371.5	712.7	.40.2	118.7	0.	Ð.	0.	1547.
1971	67.47		511.7	646.1	517.1		73.4	α.	66.2	308.4	917.2	757.3	42.2	117.7	0.	0.0	0	1679.
1972	75.0		455.1	536.3	579.7		31.8	ο.		345.6		996.6	47.4	95.2	υ.	0.0	0 .	1711.
1973	65.6		389.3	626.3	450.3		63.9	0.		242.5		636.1	34.7	99.1	Û,	0.0	0.	1556.
1974	73.6		540.1	554.5	602.8		62.5	ο.	64.7	492.4		962.1	46.7	108+5	ο.	ο.	α.	1769.
1975	63-1		425.0	413.2	631.7		63.2	σ,	63.1	268.7		857.4	44.0	74.0	ο,	0.3	0.	1540.
1976	73 1		468.4	551.5	612 1	121.0	85,8	0.	64.3	54.95		806.7	40.4	114 1	υ.	3+7	Q.	1688.
1977	187.0	1209.6	508.7	351.0	347.9	42.5	60.0	υ.	61.9			1165.0	52.2	113.2	0.	172.2	ο.	1733.
1978		912.8	296.9	399.6	478 1	77.5	82.0	σ.	6Z.4	215.6	770.5	567.9	65.7	8G.1	а.	51.5	0.30	1264.
1979		948.3	373.1	461.3	519.9	61.7	49.Z	ο.	60.7	338.0	953 2	733.6	42.5	87.7	0.	80 . S	0.30	1411.
1980		889.9	291,1	317.5	553.9	0.33	30.4	ο.	63.5	235.6	877.3	714.5	80.2	77.5	0.	4.6	0.30	1283.
1981	94 N 1		504.9	433.3	704.1		91.6	ο.	63.4		1192.4	969.8	56.4	157.9	G.	7.5	σ.	1855.
1982	153.0	852.3	354.0	473.8	405.9	71.7	54.4	0.	58.1			600.2	57.5	48.3	0.	61.2	0.30	1299.
1983	146.6	233.1	498.3	539.1	724.0	73.4	48.2	0.	58.8	434.2	1287.6	1066.2	45.7	118.5	0,	51.4	в.	1827.
AVERAGE	75.4	041.0	412.3	446.2	579.4	198.3	62.5	ο.	63.2	289.2	965.1	793.5	48.7	98.9	0.	21.5	0.14	1527.

Table 58WATER DEMAND AND SUPPLY BALANCEOF INTEGRATED OPERATION SYSTEM (14/18)

Unit: 10^6 m^3

Sources Facilities: Pedu-Muda, Ahning, Jeniang, Beris, Kholong Thepha Case 3 (Kedah Priority)

Target Year 1990

	ADUM Dhamed (A)		DEHAND SOUTH (C)		02112.	JENIANG Vithd. (f)	NAOK			DEFIC.		PEOU	ESER AHNING (H)	V 0 1 8ER15 (N)		REMAIN. DEFICIT (P)		00TPUT
1961	63.1 1	040.7	461.4	269.5	701,6	151.9	62.2	.0.	63.1	317.0	1131.7	975.2	55.6	100.9	0.	0.0	0.	1565.
1962	63.1	786.2	303.4	263.0	456.9	138.3	100.1	0.	63.1	190.2	719.0	551-6	83.1	84.3	0.	0		1213.
1963	64.0	962.4	458.1	150.0	772.3	161.7	36.1	0.	63.9	300.5	1191.9	994.0	56.0	76.5	0.	58.3		1426.
1964	63.66	812.7	347.9	139.3	530.4	143.2	64.5	0.	63.8	233.2	848.5	454 0	87.1	107-4	. 0.			1224
1965	63.5	816.1	387,9	292.9	536.2	117.1	28.5	· 0.	63.5	229.1	850.3		39.2	83.8	0.	0.	0.30	
1966	63.1	\$15.8	450.0	304.3.	483.4	139.9	85.0	ο.			818 1		43.9	130.1	0.	0.0	0.	1329.
1967	63.1	855.4	438-0	400.1	464.8	100.1	102.9	0.	63.1	225.5	766.9	. 628 - 5	33.3	105-2	0.	0.0	0.	1356.
1968	67.0	961.4	489.1	440.1	554 0	81.0	44.6	0.	59.3	338.4	991.6		47.3	88.4	0.	0	0.	1518.
1969	63.1	969.7	465.6	330.0	3. 258	128.9	47.4 .	٥.	63.1		1031.4			91.0	9.	0.0	0.	1498.
1970 -	63.3	944.0	420.3	340.2	526.9	178.4	73.2	- Q.	63.3		858.6		43.2	132.1	0	0.0	υ.	1428.
1971	63.1	933 9	522.6	541.8	461.5	76.7	75.0	0.	63.1	301.0	847 Z		38.0	107.1	ο.	0.0	0.	1520.
1972	63.7 1	078.5		443.5	639.7	54.3	33.5	0.	63.7		1072.4	931.1	46.1	95.1	0.	0+0	0.	1560.
1973	63.1	952.5	428.5	510.5	427.5	113.1	86.7	Q.	63.1	243.1	745.1	612,+4	33.0	99.7	0.	0.	0.	1444.
1974	63.5	989.1	544.1	429.0	564.0	81.7	60.5	0.	63.5.		1068-7	915.6	45.9	107.2	0.	0.0	0.	1597.
1975		910.3	440.7	305.0	585.1	128.6	65.8	0.	63.1		946.4			77.0	0.	0.0	0.	1414.
1859.	63.7		466.0	8.844	561.8	117.7	85.9	· 0 .	63.7		890.8		38 * Z	112.5	0.	0.0	Q.	1518
1977			509.5	269.1	762.9	54.7	58.0	0.	60.2		1284 7		.49.5	109.4	υ.	0.0	0.0	1608.
1978	64.1			291.1	429.8	80.3	77.7	0.	61.3		677.1		66.Z		Q.	0.0	0.30	1120.
1979		849.5	418.4	356.8	524.5	63.3	58.5	0.	57.5	272.1	885.1		41.1		0.	0.0		1333
-1980	44.4		289.5	209.3	503.1	93.0	30.7	. 0.	62.6		777.0			. 76.2	0.	<u>0</u> .	0.30	
1981			491.1	348.4	624.6		92.8	0.			1046.9	849.7	49.4		0.	0	0.	1638.
1982			368.6		408.2	72 4	54.3	0.			696.7	603+1		62.2	0.	0		1185.
1983	65.3 1	054.0	511.3	433.8	659.3	75.6	45.5	0.	\$9.5	357.0	1129.2	906.Z	45.6	117.4	0.	0.0	0.	1631.
ERAGE	63.9	914.8	436.3	345.3	\$56.7	111.1	63.9	θ.	62.2	275.8	925.0	774.9	47+9	94.4	0.	2.5	0.09	1412.

	MUDA Demand (a)		DEHAND South (C)			JENIANG WITHD. (F)					TOTAL Defic. (K)		ESER AHNING (K)			REMAIN. DEFICIT (P)		OUTPUT
1961	63.1 1	179.8	449.2	364.0	741.2	151.8	65.1	0.	63.1	306.8	1164.5	1002.5	59.4	102.7	ά.	0.0	.0.	1672.
1962	.63.3	396.1	313.4	358.1	447.8	140.5	99.9	0.	63.3		667.7	495.7		85.5	o.	0.0	0.40	1263.
1963	65.3 1	035.5	411.1	208.6	785.5	159.2	31.4	ē,	65.1		1163.9	953,3	68.3	79.2	0.	56.3	0.30	1455.
1964	54.0	891.8	319.2	269.3	526.1	146.3	73.2 .	0.	64.6	202.4	809.4	641.7	64.3	103.4	0.	0.0	0.40	1276.
1965	64.2	899.9	342.5	350.5	532.4	115.4	24.7	0.	64.2	186.8	799.1	685.8	28.6	84.7	0.	0.0	0.40	1307.
1966	63.1	983.7	410.9	428.3	\$25.9	133.6	88.6	0.	63.1	218.2	826.8	654 4	44,8	127.6		0.	0.	1458
1967	63.1 1	015.9	416.4	518.2	507.1	95.3	89.0	0.	63.1	220.8	810.9	672.3	32.6	105.1	0.	0.	0.	1495.
1968	68.3.1		467.1	537.4	615.4	72.0	40.3	0.	58.6	334.3	1055.2	917.9	48.0	89.2	σ.	0.0	Ũ. :	1656.
1969	63.2 1		453.5	437.6	672.2	133.3	40.3	0.	63.3	293.1	1072.6	935 3	46,1	91.2	0.	0.0	Q	1640
1970	63.3 1	066.0	413.9	450.3	548.1	179.7	78.0	0.	63.3	232.9	867.7	711.2	40.2.	116.3	0.	0.	0.	15-3-
1971	63.7 1		\$11.7	646.1	517.1	70.1	73.4	о.	63.7	304.4	8.549	752.9	42.2	\$17.7	0.	0.0	0.	1675.
1972	64.4 1		455 1	536.3	679.7	53.1	31.8	θ.	64.4	335.0	1127.4	984.8	47.4	95.2	0.	0.0	0.	1700.
1973	63.7 1			626.3	450.3	109.3	63.9	Ο.	53.7	240.7	767.8	634.0	34.7	99.1	0.	0.0	0.	1554.
1974	63.8 1			554.5	8,505	83.5	62.5	. 0.	63.8	392.6	1106.0	951,2	46.7	108.2	0.	Ο.	0	1760.
1975	63.1 1		425.6	413.2	631.7	122.6	63.2	0.	63.1	246.7	976 0	857.4	44.0	74.6	0.	0.0	0.	1540.
1976	64.1 1		468.4	551.5	612.1	121.8	85,8	G.,	64.0	247.7	955.3	800.8	40.4	114.1	0.	0	0.	1683.
1977	68.0 1		508.9	351.6	847.9	63.6	50.0	0.	60,8	402.6	1389,4	1065.9	52.2	113.1	0,	142.4	0.	1644
1978	64.8			399.6	477.6	78.5	82.0	٥.	:61.4	175.4	725 6	603.7	40.8	81,1	0.	0.0	0.30	1275.
1979	67.3 1	009.9	401.9	461.3	583.2	65.3	47.8	Ο.	58.1	262.9	940.1	727.5	43.0	86+8	0.	74.5	0.20	1405.
1980			291.1		553.7	86.4	30.4	0.	63.1	194.8	831.7	704.8	48.5	78.4	0.	0.0	0.30	1246.
1981	66.7 1	263.4	504.9	433.8	704.1	201.0	91.4	ο.	62.7		1159.8	947 1	10.4	156.4	0.	0.	0.	1833.
1982	66.1	798.8	323.4	473.0	357.2	68.9	51.8	0.	36.8		597.4		55.6	53.2	σ.	ũ.	0.40	
1983	65.7 1	233.1	498.8	539.1	724.6	73 4	48.2	σ.	58.8		1197.8			118.7	0.	0.	0.	
AVERAGE	64.6 1	054.6	418.2	445.9	593.1	109.3	61.9	0.	62.4	264.8	953.3	792.3	48,5	99.2	0.	11.9	0.12	1526.

Table 59WATER DEMAND AND SUPPLY BALANCEOF INTEGRATED OPERATION SYSTEM (15/18)

Unit: 10^6 m^3

Sources Facilities: Pedu-Muda, Ahning, Jeniang, Beris, Reman, Khlong Thepha Case 1 (Muda Priority)

Target Year 1990

	NUDA DEMAND (A)			WLTHD.	DEFICA	JERIANG Vithd. (F)	BROK	REMAN	RELEA.	DEFIC.	DEFIC.					REMAIN. DEFICIT (P)		107AL GUTPUT (R)
1961			461.4										52.0	94.5	υ.	0.0	υ.	1565.
1762		975.2	401-4			142.3		162.1			843.2		45.6	66.6	0.	0.	Q	1500
1963	67.4	1105.8			905.8			102.4	64.6	282.2	1317.8.	1147.2	56.1	98.3	0	14.0	υ.	16HE.
1964		1015.1	449.0		711.5		59.7	169.0				809.1	87.8	100.1	0.	5.8	η	1529.
1965		1001.9	478.0		715.6		30.6			213.7	1030.3	729.3	80.0	. 92.7	9.	115.5	U., 🐘	14 12
1956.		815.3	450.0			139.7		232.0				449.0	53.4	4.0	ο.	0.0	υ.	1329.
1967	63.1	\$55.4			433.4		153.9	.190.1	ò3.1	40.7	\$32.3	502.5	29.8	θ.	0.	0.0	υ.	1556.
1968	113.3	961.4			533.7		54.0	199.3		196.4		662.9	44.7	103.6	0.	0.	0.	1564
1969	63.1	949.7	465.0	330.6	804.7	128.7	\$7.4	157.8	: 63.1	155.9	845.1	721.0	41.7	82.5	0.	0.0	υ.	1498
1970	63.5	944.0	420.3	340.2	477.2	178.1	85.0	229.4	63.5	54.4	590.7	541.3	36.5	13.0	ο.	0.0	U.	1428.
1971	63.1	953.9	\$22.6	541.3	418.3		113.5	224.0		82.Z	556.1	500.7	28.0	27.4	0.	0.0	υ.	1520.
1972	67.2	1038.5	457.7	443.3	\$77.5	53.5	71.3	192,5	64.5	160.4	819.9	680.7	41.2	98.0	0.	o.	υ.	1563.
1973	63.1	852.5	428.5	510.5	335.4	112.1	108.4	216.0	\$3,1	47.6	481+1	438.8	Z8,4	15.7	0.	0.	U.	1444
1974	66.6	989.1	544.1	429.0	556.9	81.1	65.0	206.5	64.4	194.6	837.3	0.886	45.9	105.5	0.	0.0	0	1600.
1975	63.1	910.3	440.7	305.0	547.1	128.5	77.2	162.4	63.1	130.8	753.2	638.3	42.6	72.5	0.	0.0	U	1414.
1976	66.7	988.2.	466 - 0	448.2	499 4	117.5	114.9.	243.3	63.8	33.2	591.8	554.6	34.0	3,2	0.	0.0	u,	1521.
1977	110.0	1032.8	509.5	269.1	753.5	64.7	52.1.	181.3	60.2	271.3	1138.8	¥82.4	48.2	102.0	0.	0.	u.	1452.
1978	79.2	936.7	393.3	291.1	568.7	82.7	197.8	117.3	61.3	172.1	829.8	720.9	58.6	70.2	0.	0.0	U.	1409.
1979	93.4	970.4	477.0	356.8	613.1	65.7	62.8	164.6	57.5	225.2	931.4	792.3	42.4	96.7	0.	0.	υ.	1546.
1980	83.6	918.5	369.8	209.3	672.2	94.4	29.1	135.7	62.8	168.4	933.9	745.5	74.0	78.Y	0.	32.0	0.	1340,
1981	80.1	10:2.5	491.1	348.4	573.1	191.3	91.3	241.7	62.4	140.0	777.8	660.2	43.4	94.5	0.	0.	ų.	1654.
1982	93.6	861.0	430.3	388.7	437.2	77.4	105.4	105.6	56.9	213.8	723.3	646.3	31.5	45.0	0.	0.4	0.	1385.
1983	109.3	1054.0	511-3	433.8	634.4	75.6	51.4	175.3	59.5	244.6	976.7	822.5	44.3	110.0	0.	0.0	Ų.	1675.
AVERAGE	75.7	972.0	464.4	540.1	577.0	111.3	811.8	178.9	62.3	155.2	813.5	691.2	45.7	68.5	Û.	7.3	v.	1505.

:	НЦDА Denand (A)		DEHAND South (C)			JENJANG WITHD. (F)					TOTAL DEFIC. (X)		ESER AHNING (2)			RENAIN. DEFICIT (P)		
1961 1962 1963	63.3	1179.8 1079.7 1184.2	449.2 404.5 476.6	361.1	529.U 915.0	158.3	110.0 37.0	159.9 92.2	67,1	120.5	911.5 788.3 1314.9	673.4 1115.8	51.8 50.9 68.3	90.4 64.1 106.4	0. 0. 0.	0.0 0.0 22.0	0. 0.10 0.10 0.15	1692. 1547. 1725. 1554.
1964 1965 1966	79.2	1063.7	403.9 413.8 370.0	269.3 380.2 427.2 516.2		144.5 117.3 131.3 95.3	73.8 30.5 134.1 97.1	168.2 111.1 221.3 202.1	64.9 63.1	156.2 168.2 10.4 42.2	941.4	758.4 750.9 375.9 545.7	68.5 28.6 31.6 29.4	99.0 90.8 0. 0.	0. 0. 0. 0.	64.0 0. 9.	0.15 0.15 0.	148E 1344 1495.
1967 1968 1969 1970	178.0	1015.9 1122.7 1123.5 1060.0	416.4 467.1 453.5 413.9	537-4 437-6 450-3	523.5 652.8 499.1	71.6 133.0 170.1	51.0 40.0 96.8	205.6 160.4 217.9	57.1 64.1 63.9	254.0 147.3 48.6	936-2 889-0 608-6	784.0 754.4 569.4	46.7 46.1 36.0	105.4 88.5 3.2	0. Q.	0.0 0.0 0.	0. 0. 0.	1768. 1642. 1547. 1679.
1971 1972 1973 1974	75.0 65.6	1099.3 1180.9 1101.3 1149.9	511.7 455.1 389.3 546.1	536.3	472.1 616.1 407.1 595.3	69.6 52.3 108.1 82.6	109.1 64.5 80.7 67.3		65.2 64.9	78.3 131.3 51.4 199.7	611.5 886.1 509.5 883.3	545.9 741.4 469.6 731.7	34.5 42.2 31.1 46.7	31.1 102.4 8.7 105.0	0. 0. 0.	0.0 0.0 0.	0. 0. 0.	1711. 1556. 1769.
1975 1976 1977	63.1 73.1 187.9	1051.7 1150.5 1209.6	425.0 408.4 508.9	413.2 551.5 351.6	603 2 551 4 835 5	122.6 121.6 62.5	70.5 116.7 54.5	244.8			658.8 1310.5	683.0 614.7 1151.3 616.5	44.0 34.3 48.2 60.9	74.8 9.7 108.1 68.5	6. 0. 0.	0.0 0. 2.6 0.9	0. 0. 0. 0.15	1540. 1892. 1903. 1449.
1978 1979 1980 1981	105 6 169 6 106 3 94 C	1040.8	337.2 416.3 329.3 673.1	400.3 461.3 317.8 433.1	520-1 573-6 627-1 579-7	64.0 87.0 192.3	119.3 57.6 29.4 95.7	158.5 136.0 258.9	60.7 63.5 63.4	251.0 154.4 140.4	916.3 868.3 800.2	744.7 697.6 651.2	70.9 80.2 48.1	96.2 81.5 100.8 53.8	0. 0. 0.	4.0 8.2 0. 31.2	0.15 0.15 0.10 0.10	
1932 1983 Average	153.0 146.6	1233-1	415.4 498.8 436.7	489.9 539.1	433.6 693.8 591.8	73.4	102.9 55.7 78.7	87.9 180.3 178.9			1079.0	662.5 921.2 710.0	35.0 44.4 46.8	113.4 69.7	0. 0.	0. 5.8	0.06	1878,

Table 60WATER DEMAND AND SUPPLY BALANCEOF INTEGRATED OPERATION SYSTEM (16/18)

Unit: 10^6 m^3

Sources Facilities: Pedu-Muda, Ahning, Jeniang, Beris, Reman, Khlong Thepha Case 3 (Kedah Priority)

Target Year 1990

	MUDA Demand (A)		DEHAND SOUTH (C)			JENIANG WITHD. (f)	NAOK	REMAN	RELEA.		DEFIC.	PEDU		8E8 I S		REMAIN. DEFICIT (P)	RATE	OUTPUT
1901	63.1	1040.7	461.4	269.5	645.4	151.7	. 99.0	190.1	43.1	146.3	879.7	723.8	52.0	105.8	٥.	0.0	٥.	1565.
1962	63.1	975.2	461.4	266.7	596.3	142.0	106.7	162.1	- 63 . 1	162.7	8.3.2	731.1	45.6	66 . 6	0.	ο.	υ.	1500.
1963	64.N 1	1108.8	526.6	150.0	903.8	161.7	8.82	102.4	63.9	278.8	1314.0	1159.2	56.5	78.3	0.	٥	0.	1699.
1964	63.8	015.1	449 6	189.3	711.5	149 3	59.9	169.0	63.8	185.7	996.8	842.1	55.5	99.3	0.	0.0	0.	1528.
1965	63.5	001.9	478.9	\$95.9	713.0	117.3	30.8	116.3	63.5	209.2	1025.3	761.9	85.7	92.6	0.	76 . 5	0.	1467.
1988	63.1	815.8	450.0	304.3	404.2	139.9	150.9	232.0	63.1	34.2	487.0	449.6	33.4	4.0	0	0.0	0.	1329.
1967	63.1	855.4	438.0	400.1	438.4	100.1	123.9	190.1	63.1	40.7	532.3	502.5	29.8	0.	0.	0.0	0	1356.
1968	67.0	961.4	489 1	440.1	533.7	81.0	54.0	199.3	- 59.3	150.1	759.7	620.0	44.7	95 U	ō.	0.	0.	1518.
1969	63.1	969.7	465.0	330.6	604.7	128.2	\$7.4	157.8	63.1	155.9	8 5 1	71214	41.7	91 U	0.	0.0	0	1498.
1970	63.3	944.0	420.3	340.2	477.0	178.4	85.U	229.4	63.3	54 4	590.5	541.0	36.5	13 0	0.	0.0	0	1428.
1971	63.1	933.9	522.6	541.8	418.3	76.7	113.5	224.0	63.1	82.2	556.1	500.7	28.0	27.4	0.	0.0	ο.	1520.
1972	63.7 1	038.5	457 7	443.3	576.7	54.3	71.5	192.5	63.7	157.7	816.U	680.7	41.2	94.1	0.	0.	0	1560.
1973	63.1	952.5	428.5	\$10.5	385.4	113.1	108.4	216.0	63.1	47.6	481.1	438.8	28.0	13.7	0.	0.	0	1444.
1974	63.5	989.1	544.1.	429.0	556.9	81.9	65.0	206.8	63.5	193.5	833.9	687.1	45.9	100.9	0.	0.0	0.	1597.
1975	63.1	910.3	440 7	305.0	\$47.1			162.4		130.8	753.2	638.3	42.6	72.4	0.	0.0	0.	1414 .
1976	63.7	988.2	466.0	448.8	499.4	117.7	115.0	.242.9	63.7	30.4	588.0	554.6	34.0	0	0.	0.0	0	1518.
1977	661 1	032.8	509.5	269.1	753.5	64.9		181.7		226.9	1089.4	933.0	48.2	108.1	0.	0.	0	1608.
1978	64.1	936.7	393.3	291.1	568.7	82.9	109.8			163.0		702.7	38.6	71 7	ő.	0.0	0.	1394.
1979	64.6	970.4	477.0	356.8	613.1	65 9	62.3			191.4		762.7	42.4	88.7	Ο.	0.0	U.	1512.
1980	64.4	918.5	369.8	209.3	672.2	94.6	29.1		-62.6		912.5	783.Z	45.4	78.8	0.	4.6	σ.	1348.
1981	64.0 1	082.5	471.1		578.1	191.8	91.3	241.7			779.9	659.1	43.4	77.4	ġ.,	ġ.	Ŭ.	1638
1982	64.2	861.0	430,3	388.7	437.2	77.4					690.6	614.1	31.5	45 0	0.	0.	υ.	1356
1983	6513 1	054.0	511.3	433,8	634.4	75.6					927.9			101.0	0 .	ō.	Ū	1631,
AVERAGE	63.9	972.0	464.4	346,1	576.9	112.0	80.3	178.9	62.2	143 4	800.4	686.1	43.3	67.1	٥.	3.5	0.	1497.

	HUDA		DENAND	KEDAH												· ·		
	DEMAND					JENIARG		EASE			TOTAL		ESER			REMAIN.		
	[4]	(B)	(())	(0)	(E)	WITHD. (F)	(G)	желан (Н)								DEFICIT		
*****							44===4	(8)	(1)	(J)	(k) [(L)	(8)	(N)	(0)	(P) :	(9)	(R)
1961	63.1	1179.8	449.2	364.0	672.6	151.8	100.8	192.0	63.1	147.8	911.5	759.8	51.8	99.9	0.	0.0	0.	1692.
1962	63.3	112.0	419 6	361.7	623.4		109.6	159.9			840.9		51.2	64.5	Ū.			1595.
1963	65.3	1258.6	509.3	208.6	992.0	160.5	36.8		65.1		1411.0		68.3	104.9	Ö.	67.3	0	
1964	64.6	1098.1	420.8	249.3	711.4	147.0	73.1				957.8		91.5	99.4	ŏ.	6.0	0.10	1577.
1965	64.2	1039.7	428 . 1	380,2	711.3	118.4	30.3	111.1		166.5	975.3		73.0	91.2	0.	72.3	0.10	1510
1966	63.1	935.0	383.7	427.5	381.9	132.1	135.9	223.6			443.8		32.0	0.	Ő.	0.	0.10	1382.
1947	63.1	1015.9	416 4	518.2	475.4	95.3	99.1	202.1	63.1	4Z.Z	575.1	545.7	29.4	Ŭ.	0.	Ğ.	0.	1495.
1968	48.3	122.7	467 1	537.4	591.6	72.0	51.6	202.5	58.6	144.3	817.6	678.3	46.7	92.6	ŏ.	0.0	a	1658
1969	63.3 1	123.5	453.5	437.0	652.6	133.8	46.6	160.4	63.3	146.1	887.5		46.1	96.3	n		0	1640.
1970	63.3 1	0.660	413.9	450.3	499.1	170.7	97.4	216.7		45.7	605.4		36.0	6.	0	0.0	0.	1543.
1971	63.7 1	1099.3	511.7	646-1	472.1		109.1	240.6		73 1	605.7		34.5	25.4	0	0.0	ő.	1675
1972	64.4	1180.9	455.1	536.3	675.3	53.1	64.5	195.2	64.4		874 2		42.2	94.9	0		ΰ.	1700.
1973	63.7 1	101.3	389.3	626.3	406.5	109.3	80.1		63.7		508.0		30.6	7.8	ŏ.	6.0	0.	1554.
1976	63.8	1169.9	546.1	554.5	\$95.3	83.5	67.3	205.4		189.9	872.4		46.7	103.9	0 .			
1975	63.1 1	051.7	425.6	413.2	603.3		70.5				801.8		44.0	74 8	0	0.0	Q	1740.
1976	64.1 1	1150.5	468 4	551.5	551.4		116.7				649.2		36.3	0.1	Ŭ.	G.	0.	1683.
1977	68.0	6.7051	508.9	351.6	835.5	63.6	54.5	195.8			1178.0		48.2	108.3			0.	1786.
1978	64.8		350.7	400.5	551.4		118.7	114.4			753.9				·0.	0.0	0.	
1979	67.3			461.3	606.6	67.2	56.5				853.8		36.8 43.5	66.6	0	0.0	0.10	
1980	65.2		342.0	317.8	659.0	87.7			47.5	124.4	870.4				0	Q.	0.10	1570.
1981	64.7		504.9	433.8	652.6	201.0	91.2				880.9		48.5	86.7	0	<u>_0</u> .	0.10	1417+
1982	66.1		430 8	492.8	460.4		106.5	91.9		197.0			49.6	81.9	0.	0	0.	1033.
1983			498.8	539.1	693.8	73.4	55.7				730.3		36.9	47.8	0.	2.4	0.05	1482.
					0,310	1.4.4	3341-	11040	2040	«UU.0	993.8	844.9	44.4	104.5	0.	0.	0.	1798.
VERAGE	64.6	1110.8	444.5	446.9	609.3	110.3	78.3	178.5	62.4	134.1	826.0	705.3	46.4	67.2	0.	6.4	0.03	1613.

WATER DEMAND AND SUPPLY BALANCE OF INTEGRATED OPERATION SYSTEM (17/18)

Unit: 10^6 m^3

Sources Facilities: Pedu-Muda, Ahning, Jeniang, Beris, Reman, Tawar Muda, Khlong Thepha

Case 1 (Muda Priority)

Target Year 1990

	DEMAN	HADA Herth (P)	DEHAND SOUTH (C)		NORTH DEFIC. (E)	JENJANG Niting .tf)	REL NAOR (1-)	EASE REMAN (H)	HUDA RELEA. (1):	SOUTH DEFIC, (J)	TOTAL Defic. (K)	R Pedu (L)	E S.E.R AHNING (N)		T.NUDA	REMAIN. DEFICIT (P)		
1941		1040.7	401-4	2+7.5	561.5	106.7	103.1	170.0	63.1	191.0	947.2	776.5	52.4	105.2	69.0	+	υ.	1566.
1962			40714		0.0.3	101.1	101.5	143.7	63.1	205.5	915.5	761.9	46.1	65.9	63. Y	U.	U.	
1763		1103.3	526.6	150.0		123.8	35.0		63.3		1397.8		58.0	98.7	74.1	4.9	υ.	1502.
1964		1015.1		189.3	126.2	110.1	55.2				10/8.4		57.3	98.1	81.9	2.3	u. U.	
1965		1001.9	476.0	292.9		Ne . 3	32.1	99.9	03.4		1085 8	123 8	86.2	¥1.8	64 U	108.0	ΰ.	1552. 1448.
1966		815.8	450.0	194.8		101.2	119.2	297.6			592.2	461.5	58.4	41.4	46.6	0.		
1967		855.4	438.0	400.1	413.4	10.5	137.0	212.7		40.7	552.5	499.4	27.8	υ.	5.2	0.	U. U.	1330.
1768.	115.2	961,4	439.1	449.1	551.7	60.3	52.6	140.3	55.4	262.9	YU5 2	688.6	47.9	101.3	70 Y	0.		
1969	65.1	464.1	405.0	356.8	549.1	Y2 3	46.1	126.9		215.2	951.4	726.0	43.0	91.4	72.1	0.	ប. ប.	15674
1979	63.3	744.0	420.5	34C.2	>30,1	3.57.3	67.2	204.3	\$3.3	94.5	689.7	555.4	44.5	55.4	58.9	0,	u.	1500.
1971	63.1	933.2	322.0	541.6	433.6	54.2	104.1	280.0	65.1	123.1	618.3	499.9	32.2	48.0	59 - 3	υ.	U.	1521.
1972		1048.5	457.7	445.5	492.7	2.7	61,1	168.0		190.4	881 Z	671.0	41.2	101.0	45.8	ö.	0	1507.
1973		952.5	428.5	510.5	r*86*	X6 9	85.5	199.9	63.1	90.9	554.5	458.1	32.5	35.0	30.0	ŏ.	0	1446.
1974	66.4	989.1	544.1	429.0	201.2	>>.2	63.4	171.1	63.6	255.7	907.4	688.8	46.3	105.8	21.6	. 0.	u	1602.
1975	63.1	210.3	440.7	395.0	567.5	°1.6	70.6	146.7	63.1	169.8	819.2	058.0	42.8	79.1	61.3	9.	U.	1415.
1976	66.7		466.U	446.2	>3>.4	25.4	د. 13	219.1	53.2		642.3	371.5	59.4	45.4	59 5	Ŭ.	ů.	1524
1977		1932.8	509.5	269.1	151.1	43.5	51.8	173.3	57.1		11/4.4	763.4	48.2	107.9	59.5	ö.	υ.	1656
1978		936.7	395.3		522.5	99	100.5	105.1	58.8	214.5	882.2	702.1	58.6	76.1	68.9	Ŭ.	Ŭ.	1412.
1979		970.4	477.0	356.8	651°A	47.6	50.1	131.2			1006.3	800.5	43.4	90.6	70.1	1.1	Ŭ.	1544.
1950	85.6		369,8		485.U	59.8	27.3	120.9			982.6	747.7	78.9	71.0	66.7	10.0	U.	1361.
1981		1052.5	491.1		698.7	151.0	86.6	229.7		157.9	862.9	630.5	47.3	101.6	88.8	0.	ů.	1658.
1982		661.U	430.3	386.7	669.3	6U.5	87.1				798.U	664 Y	33.0	66.1	36.5	0.	Ŭ.	1387.
1783	109.3	1054+0	511.3	433.3	633.5	53.6	52.1	164.6				199.0	47.9	105.2	68.1	ō,	υ.	1680.
AVERAGE	75.7	972.0	464.4	346.1	594.4	81.7	72.1	157.)	61.2	198.8	851.3	895.5	46.3	77.5	59.7	5.3	v.	1509.

	NUOA	MADA	OEHAND	REDAN	NURTH	JENIANG	REL	EASE	HUOA	SOUTH	TUTAL	*	£ 5 Е Я	¥ 0 ¥	×	RENAIN.	601	TOTAL
	DEMAND	RORTH	\$0U1H	WERED.	DEFIC.	VITSD,	#40K	REHAN	RELEA.	DEFIC	DEFIC.	Ρεδυ	ANNING	8ER I S	1.000	0611211	8A1E	001201
· · · · ·	(A)	(8)	(c)	(0)	(1)	(1)	(6)	{H}	(1)	(J)	(K)	(L)	(8)	(8)	(0)	(9)	(0)	(8)
1961	63.1	148.1	436.2	364.0	652.5	197.3	104.0	171.3	63.1	185.3	930.9	715.2	51.8	98.1	69.7	0,	0.05	1649.
1962		0.5111			050.1		100.0				919.5		52.2	63.8	68.1	υ.	0.05	1598.
1963	85.8			208.6		122.7	33.7		63.5		1453.0		68.3	98.8	75.4	96.8	0.05	\$703.
1964	85.9	1098.1	420.8	259.3	125.4	109.4	59.9	\$44.7	63.8	232.2	1066 0	804.4	\$3.2	91.0	85 9	22.4	0.10	1582.
1965	79.8	1089.7	428.1	380.2	116.7	84.2	30.1	94.4	63.5	228.6	1050.3	686.0	6.85	92.5	65.Z	159.7	0.10	1418.
1960	63.1	959.3	. 397.3	427.9	444.5	95.9	112.5	209.4	63.1	66.8	507.9	\$61.6	34.2	35,1	30.2	0,	U,85	3422.
1967	63.1 1	015.9	416.4	518.2	475.4	67.1	105.0	224.3	63.1	42.2	575.1	542.7	29.4	0.	5,5	ΰ,	8.	1498.
1968	178.0 1	122.7	467.1	557.4	611.4	53.5	41.1	128-3	54.4	337.7	1054.5	830.5	48.0	108.3	70.9	ο.	υ.	17/0.
1969	64.6 1	093.5	438.4	437.6	637.9	95.9	39.8	130.2	63.6	191.6	921.7	716.9	46.1	90.7	72.5	υ,	0.05	1601.
1970	66.8 1	0.660		450.3	551.1	151.1	66.7	207.7	63.4	76.4	697.2	561.6	48.9	48.2	44.9	U.	υ.	1551.
1971	67.7 1	099.3	511.7	646.1	488.6	46.2	100.2	201.7	63.2	132.8	694.4	354.1	57.0	45.5	6.3	υ.	α.	1686.
1972	75.0 1	180.9	455.1	536.5	457.2	32.3	43.0	171.8	63.9	2U3.Y	956.8	139.0	44.3	108.9	58 U	Ο.	ប.	1715+
1973	65.0 1	101.3	337.3	626.3	422-0	83.1	78.5	197.5	64+1	85.0	503.4	476.5	53.7	20.5	28 5	0.	υ.	1558.
1974	73.6	1149.9	546.1	554.5		36.8	66.6	172.4	63.5	Z56.1	¥5V.7	731.8	66.7	104.8	71.8	υ.	ü,	1773.
1975	63.1	1051.7	425.0	413.2	618.3	40.1	64.9	130.4	63.1	160.4	865.2	084.7	44.O	71.4	60.7	υ.	U.	1542.
1976	75.1 1	150.5	468.4	551.5	591.5	87.4	77.2	251.3	63.4	87.4	754.4	629.3	61,0	45.8	42.9	ο.	υ.	1696.
1977	187.01	209.6	508.9	351.6	838.U	42.5	55.1	178.6	56.5	382.0	1356.2	1143.5	48.Z	108.1	59.4	υ.	U.	1908.
1978	105.6 1	037.8	350.7	400.5	360.8		111.5	102.8	59.5	200.8	340 Z	615.6	61.2	70.9	66.4	28 y	0,10	1465.
1979	169.0 1	071.6	430.7	461.3	619.9	48 1	40.2	122.6	55.6	318.1	1042.2	247 7	73.3	91.2	72.1	52.1	U.10	1620.
1980	108.3 1	009.6	342.0	317.8	671.2	64.8	27.5	119.6	57.8	197.4	963.Z	721.6	80.S	18.1	67.U	15.5	បុក្សប	1442.
1981	94.0 1	230.2	489.0		452.4	154.9	58.0	239.8	61.3	183.0	928.5	670.5	50.2	117.7	76.0	ο.	0.05	1818.
1982	153.0		430.8	492.3	478.2	62.1	91.5				845.8		59.2	66.1	32.8	48.9	0.05	1523.
1983	146.6 1	233.1	498.8	539.1	704.5	51.8	54.7	165.2	\$6.2	386.7	1123.7	90U,2	47.7	111.1	68,9	0.	υ.	1882.
VERAGE	95.4 1	106.1	442.3	446.9	423.3	80.3	64.9	157.0	41.3	205.2	y20.6	116.9	48.1	77.1	59.7	18.5	0.04	1628,

Table 62WATER DEMAND AND SUPPLY BALANCEOF INTEGRATED OPERATION SYSTEM (18/18)

Unit: 10^6 m^3

Sources Facilities: Pedu-Muda, Ahning, Jeniang, Beris, Reman, Tawar Muda, Khlong Thepha Case 3 (Kedah Priority)

Target Year 1990

:	MUDA OEMAND (A)		9EKAND SOUIH (C)			JENTANG VITHD, (f)	RELI NAOK (g)	EASE REMAN (H)	RELEA.	SOUTH Defic (J)	TOTAL DEFIC. (K)	R PEDU (L)	AHNING	V O L BER[S (N)	(0)	REMAIN, DEFICIT (P)	RATE (0)	OUTPUT (R)
1761	63.1	1040.7	461.4	269.5	601.7			170.0			947.7		52.4	107.5	69.D	0.	0. U.	1568.
1942		975.2	461.4	260.7	618.5	101.1	101.3	143.7			915.5			100.1	74 1	Ŭ.		1701.
1963		1108-8	526.6	150.0	923.5	123.3	35.0	72.7			1394.0		58-0	99.2	81.8	ő.	0.	1530.
1964		1015.1	149.8	159.3	730.5	110.1	27.55				1071.7		57+3		64.0	4 4	ũ.	1469.
1965	63.5	1001.9	473.0	292.9	716.7	82-4	35*1				1080.9	757.3	86.2	90.7	46.6	0	υ.	1330.
1985	63.1	815.8	450.0	304.3	432.1		119.2		03.1				.18.4		5.2	0.	Ŭ.	1358.
1967	63.1	855.4	438.0	400.1	438.4	/0.5	131.0	212.7		40.7	532.3		29.8	. 0.	71 1	ă,	ů.	1519.
1968	67.10	961.4	489 .1	440.1	551.7	60.3	2.2	140.8	55.4	216.0	853.7		47.9	100.7			.0.	15UD.
1949	63.1	969.7	465.6	330.6	620.1	92.3	40.7	126.9	63.1		951.4		43.0	91.4	72.1	Ū.	υ.	1430.
1970	63.3	944.0	420.3	340.2	\$29.8	137+3	61.7	204.3	63.3	90.6	689.4	\$35.4	44.5	53.5	39 3	0	υ.	1521.
1971	63.1	933.9	522.6	\$41.8	433.4	54.2	104.1	200.0		123-1	618.3	499+9	32.2	48.0	62.7	0.	υ.	1563.
1972	63.7	1038.5	457-7	443.3	\$62.7	33.7	61.2	148.4		186.9	877.3	677.5	41.2	.98.7	30.0	0.	υ.	1446.
1973	63.1	952.5	428.5	\$10.5	408.3	86.0	85.5	199.7		90.Y	554.0	458+1	32.5	35.6				1598.
1974	63.5	989.1	544.1	429.0	561.2	55.9	63.4	171.1		252.6	904.2	8.180	46-3	104.2	71.5	0.	0.	1416.
1975	63 1	910.3	440.7	305.0	567.5	91.6	70.6	146.7		169.8	819.2	643.0	42.8	74-8	61.3	0.	<u>.</u> .	1520.
1975	63.7	988.2	466.0	448.8	535.4	65.4	81.3	219.1		84.6	689.0	571.3	39.4	45.4	36.9	0.	U .	
1977	66.1	1032.8	509.5	269.1	757.1	43.5	51.5	173.8			1125-5	913+8	48.Z	108.0	59 2	0	U.	1612.
1978	64 1	936.7	393.3	291.1	579.5	. >9.9	100.3	105.1	58.4	199.5	805.5	- 189	\$8.6	74.5	68.9	0.	0.	1397.
1979	64.0	970.4	477.0	-356-8	621.9	47.5	50.1	131.2		249.9	968. 7	770.5	43.4	89.0	70.1	0.	0.	1516.
1980	64 . 4	918.5	369.8	209.3	665.0	69.3	27.3	120.9	5.Pà	180.2		770.0	48.5	78.7		0.	0.	1355.
1981	64 0	1082.5	491.1	348.4	508.7	151.0	86.5	229.7	61.4	151.8	845.0	63U.3	47.3	90.9	79.6	Q.	<u>0</u> .	1640.
1952	66.2	861.0	430.3	388.7	449.3	80.5	87.1	75.8	54.0	239.5	765.3		33.0	66.1	36.5	0.	0.	1358.
1953		1054.0		433 8	638.5	53.6	52.1	164.6	\$7.4	230,6	965.7	755.6	47.9	100.3	67.8	0.	ο.	1630
AVERAGE	63.9	972.0	464.4	346.1	594.4	81.7	72,1	157.9	61.2	187.0	868.2	685.7	45.4	76.9	59.0	3.2	v.	1499.

	NÚDA DEMAND (A)		DEMAND SOUTH (C)			JENIANG WITHD, (FJ		EASE REMAN (H)			TUTAL DEFIC. IK)		ESER AHHING (M)			REMAIN. DEFICIT (P)		
1961	63.1 1	179.8	449.2	364.0	684.4	107.3	102.8	171.3	63.1	199.2	981.8	757.1	52.0	103.4	.70.Y	0.	υ.	1694.
1962	63.3 1	144.3	434.8		483.2		ານນ.ນ				971.0		>2.2	72.0	68.1	0.	U.	1645.
1963	65.5 1	6+865	\$07.5	208.6	1006.3	123.0	33.6	63.5	63.2	334.9	1490.2	1164.5	68.3	98.5	75.4	15.5	υ.	1758.
1964	64.6 1	098+1	420.8	267.3	725.4	109.4	59.9	144.7	63.8	210.9	1040.3	762.5	91.5	96.1	83.7	5.0	·u.10	15/8+
1965	64.21	089.7	428.1	380.2	714.7	84.2	30.1	94.4	63.5	213.U	1053.0	726.9	03.8	93.2	65 Z	75 5	0,10	1506.
1900	63.1	935.0	383.7	127.5	415.0	.95.3	110.8	210.0	\$3.7	57.4	527.8	425 5	58.7	29.9	55.8	ΰ.	V.10	1385.
1967	63.1 1	015.9	\$10.4	518.2	475.4	67.1	105.0	224.3	63.1	42.2	575.1	.542.1	29.4	0.	5.5	0.	`U∎	1498.
1968	68.3 1	122.7	467.1	537-4	611.4	53.5	47.1	126+3	54 4	228.0	932.6	/15.8	48.0	100.1	21.1	υ.	U.	1661.
1969	53.3 1	123.5	453-5	437.6	669.5	96.5	39.5	129.8	63.3	'z04-1	970.7	761.5	. 46.1.	94.8	72.4	0.	0.	10-4-
1970	63.3 1	0000	413.9	450-3	551.0	131.2 -	60.1	207.7	63.3	~73.U	693.3	361.6	50.9	6.45.8	42.3	υ.	υ,	1546.
1971	63 7 1	099.3	511.7	646.1	488.0	~46.Z	10U Z	201.7	63.2	128-8	0.686	556.5	37.6	41.0	40.3	0.	U.,	16/6-
1972	64.4 1	180.9	455.3	536.3	656.9	52.3	45.8	\$71.8	63.8	173+3	944.7	736.2	44.3	105*2	03.7	Ο.	U.	1702.
1973	63.7 1	101.3	389.3	626.3	521.1	83.5	28.5	197.3	63.1	85.5	561.5	426.5	53.7	2515	26.6	υ.	υ.	1555
1975	63.8 1	149.9	346.1	554.5	599.5:	54.8	66.6	172.4	63.5	246.5	939-8	720+0	46.7	102.5	21.7	0.	0.	1761.
1975	53,11			413-2	618-3	.90.1	64.9		63.1	160.4	865.2	480-5	44.0	81.7	60.7	0.	V.	1542.
1976	64 1 1	150,5	468.4	551.5	591.5	87.4	79.2	231.3	63.4	78.5	744.4	628.5	41.0	40.4	37.8	G	U	1656.
1977	68.01	209.6	508.9	351.0	838.0	42.5	55.7	178.6	56.5	265.6.	1223.9	1011.8	18.2	108.2	59+3	. 8.	U.c.	1790.
1978	64.8 1			400.5	360.6		111.5				800.7		37.2	. 70+4	67.7	σ.		1456
1979	67.3 1	071.6		461 3	619.9	49-1	46 Z	122.4	54 6	215.9	928.6	726.4	44.8,	90.5	71.1	0.	0.10	1573-
1980	65.21		542.0	317.8	671.2	64.3	21.1	119.0			919.4	121.4	48.5	80.0	67.1	8.		1420.
1981	64 7 1		504.9	433.8		157.2	85 a	\$37.6				122.1	20.9	103.0	80.0	0.		18.7.
1982	66.1			489.9	452.4	61.8	94.5						59.2	60.5	- 33.0	υ.	U.10	1444 -
1983	65.7 1	233.1	498.8	539-1	704.5	51.8	54.7	165.2	56.2	225.9	1033.8	824.1	47.7	99.0	68.7	υ.	U.	1803.
AVERAGE	64 6 1	111.0	444.5	446.8	628.2	80.5	67.3	156.9	61.1	176.7	844.3	101.3	47.6	76.0	58.4	6.8	V.U3	1616.

SUMMARY OF RESULTS OF OPERATION STUDY (1/3)

Case 1

		Case
Target	Year	1990

Target Year 2000

				Case	<u>ч</u> .			·				:		
		5.	Year	11.					ľ	'arget	Year	2000)	
Sour	ce Fa					Ahning	ł					Un:	it: 10	0 ^{6 3}
YEAR	HUDA DEMAND	KEDAH DEHAND		مند میں اور میں بی میں اور			:	YEAR	NUDA DEMAND		TOTAL DE OUTPUT AF	FICIT C TER CUT R	VТ 1 ЛТЕ(Х) 1	OTAL DEFICIT
1961 1963 1964 1965 1965 1965 1965 1965 1965 1965 1965	63 67 700 68 63 113 63 63 67 63 67 63 67 79 8 84 80 94 94 109 76	1502 14355 14635 14660 12664 14515 14515 14564 14515 14564 13813 13813 1354 15542 1574 12965 14367 12974 12974 12974 12965	1205 924 849 871 1039 11356 1039 11260 152000 15200 15000 15000 15000 15000 15000 15000 15000 15000 10	3 48 5 1 0 0 5 1 0 0 0 2 0 2 2 7 4 16 39 23 17 13 5 48 8 23 25	40 675 655 200 300 400 500 500 500 500 500 500 500 500 5	360 576 854 661 2300 326 4399 281 880 281 281 282 495 359 465 359 465 359 465 359 467 300 673 407 407 407 407 407 407 407 407 407 407		1961 1963 1963 1965 1966 1966 1966 1970 1970 1977 1977 1977 1977 1977 1977	63 686 803 663 663 663 663 766 75 668 766 73 787 100 100 100 153 147 95	629 15768 1629 15768 1610 1392 1597 1401 1597 1401 1696 1496 1496 1496 1497 1619 1498 1497 1478 1497 1478 1497 1461 1497 1478 1461 1497 1478 1461 1498 1497 1478 1478 1478 1478 1478 1478 1478 147	1 335 931 967 1230 1332 1470 13495 1495 1495 1517 1517 1300 1567 1517 1495 1637 1495 1637 1495 1637 1495 1637 1495 1637 1495 1006 1206 987 886 886 886 886 886 886 886 886 886 8	0 40 14 00 115 0 3 3 9 9 8 6 8 415 44 108 445 445 45	40 75 75 75 30 20 20 20 20 20 20 20 20 20 20 20 20 20	357 711 844 686 702 228 298 298 298 298 298 298 298 298 29
	ce Fa	:				, Ahning	т Лог	.*			-2			
YEAR	NUDA DEMAND	KEUAR DEMAND	TOTAL I OUTPUT	EFICIT FTER CUT	CUT RATE(%)	TOTAL DEFICIT	,	YEAR	HUDA DEMAND	K <i>EDAH</i> DEHAND	TOTAL D OUTPUT A	EFICIT FTER CUT	CUT RATE(X)	TOTAL DEFICIT
1961 1962 1963	63 63 67 70	1502 1437	1253 1117	0		312 383		1961 1962	63 63	1629 1579	1379 1263 1332	0	35 40 45	313
1963 1964 1965	70 68 63	1635 1465 1480 1266	1378 1124 1177 1137	57	35 40 25 40 25 0 25 0 25	325 411 371 192		1963 1964 1965 1965	85 86 80	1768	1332 1176 1217 1268	40 18 14 0	50	522 532 472 190
1967 1968 1969	113	1293	1356 1513 1269	0 51	20 0 20	0 52 229		1967 1968 1969	63 63 178 65	1395 1432 1590 1577	1495 1653 1326	115	50 25 0 35	115 316
1970 1971	63 64 63 67	1364 1457 1496	1428 1520	0	0	0 0 2		1970 1971 1972	63 178 65 67 68 75	1480 1611 1636	1544 1676 1702	03790	. 0	3
1975 1974 1975	63 67 63 67 53 67	1381 1533 1351	1561 1357 1598 1209	2 0 2 0	10 10 25	87 2 205 92		1973 1974 1975	- 74 63	1491 1696 1477	1471 1762 1258	8	10 0 35 10	85 8 282 100
1976 1977 1978	67 110 79	1454 1542 1330	1429 1413 1073	2 240 16 39	10 0 35	92 239 336 263		1976 1977 1978	73 187 106	1619 1719 1478	1592 1568 1185	8 337 41 105	10 0 40 35 40	337 399 421
1979 1980 1981	110 79 98 84 80	1447 1288 1574	1283	19	0 25 10 35 25 -35 10 40	112		1979 1980 1981	170 106 94	1593 1437 1768	1341 1161 1734 1181	41 30 94	40 10 40	382 128
1982 1983	94 109	1291 1565	1542 1010 1625	35 50	40 0	375 50		1982 1983	153	1461 1732	1678	94	10 22	433 201 245
		1636		27	10	199		HEAN	95	1583	1433	42	22	243
MEAN	76	1436	1323	23	18	189		HEAN	95	1583	1433	42	22	245
MEAN		cili	1323 ties;	Pedu	-Muda	, Ahning	g, Jer		Beri	s				:
HEAN Soui Year		Cili KEDAH DEHAND	1323 ties; TOTAL OUTPUT	Pedu DEFICIT AFTER CUT	Muda	, Ahning	g, Jer	iang, YEAR	Beri: HUPA DEMAND	S KEDAH DEMAND		DEFICIT AFTER CUT	CUT RATE(X)	TOTAL DEFICIT
MEAN Sour Year 1961 1962 1963	CCE Fa HUDA DERAND 63 63 67	Cili KEDAH DEHAND 1502 1437 1635	1323 ties; TOTAL OUTPUT 1342 1213 1345	Pedu DEFICIT AFTER CUT 0 0 36	Muda	, Ahning	g, Jer	YEAR 1961 1962 1963	Beri: HUDA DEMAND 63 63 86	S KEDAH DEMAND 1629 1579 1768	TOTAL OUTPUT	DEFICIT AFTER CUT 0 0 71 0	CUT RATE(X)	TOTAL DEFICIT 268 284 607 513
HEAN SOUL 1961 1962 1963 1964 1965 1966	CCE Fa	Cili KEDAH DEHAND 1502 1437 1635 1465 1465 1460 1266	1323 ties; TOTAL 00TPUT 1342 1213 1345 1129 1259 1259	Pedu DEFICIT AFTER CUT	Muda	, Ahning	g, Jer	YEAR 1961 1962 1963 1963 1965 1965 1965	Beri: HUDA DEMAND 63 63 86 86 80 63 63	S <u>KEDAH</u> <u>DEMAND</u> 1629 1579 1768 1622 1610 1395 1432	TOTAL OUTPUT 1424 1358 1247	DEFICIT AFTER CUT 0 71 0 0 0 0 0		TOTAL DEFICIT 268 284 607 513 367 0 0
HEAN SOUL YEAR 1961 1962 1963 1964 1965 1966 1967 1968	CCE Fa HUDA DEHAND 63 63 67 63 63 63 63 63 63 63 63 63 63	Cili1 KEDAH DEHAND 1502 1437 1635 1463 1451 1293 1451 1435	1323 ties; TotAL 1342 1213 1345 1129 1259 1259 1259 1356 1564 1498	Pedu DEFICIT NTTER CUT 0 0 36 0 36	e-Muda (UT (XTE(X)) 25 30 30 30 30 10 0 0 0 0 0 0 0 0	, Ahning TOTAL DEFICIT 223 287 358	g, Jer	YEAR 1961 1962 1963 1964 1965 1966	Beri: HUDA DEMAND 63 63 86 86 80 63 178 65 67	S KEDAH DEMAND 1629 1579 1768 1622 1610 1395 1432 1590 1577 1480	TOTAL OUTPUT 1424 1358 1247 1195 1322 1458 1495 1768 1461 1547	DEFICIT AFTER CUT 0 71 0 0 0 0	CUT RATE(X)	TOTAL DEFICIT 268 284 607 513 367 0
HEAN SOUJ YEAR 1961 1963 1963 1965 1966 1965 1966 1967 1967 1969 1970	CCE Fa HUDA DEKAND 63 63 63 63 63 63 63 63 63 63 63 63 63	C j l j KEDAH DEHAND 1502 1437 1635 1465 1465 1465 1465 1293 1451 1435 1364 1457	1323 ties; TOTAL 1342 1213 1345 1129 1257 1356 1564 1498 1428	Pedu DEFICIT NTTER CUT 0 0 36 0 36 0 0 0 0 0 0 0 0 0 0 0 0 0 0	сит клте(х) 30 30 30 30 30 0 0 0 0 0 0 0 0 0 0 0 0	, Ahning Total DEFICIT 223 287 287 358 406 279 77 0 0 0 0 0 0 0 0	g, Jer	YEAR 1961 1962 1963 1963 1964 1965 1966 1966 1969 1970 1971 1972 1973	Beri: HUDA DEHAND 63 63 86 80 63 63 63 63 65 67 68 65 67 68 65 67	S KEDAH DENAND 1629 1768 1622 1610 1395 1432 1590 1577 1480 1611 1636 1491	TOTAL OUTPUT 1424 1358 1247 1955 1322 1458 1461 1547 1679 1711	0 AFTER CUT 0 0 71 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	CUT RATE(X) 30 50 40 0 0 20 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL DEFICIT 268 284 607 513 367 0 0 0 0 181 0 0 0 0 0 0 0 0 0 0 0 0 0
MEAN SOULI YEAR 1961 1962 1964 1965 1966 1966 1969 1969 1971 1971 1973 1973 1973	CCE Fa HUDA DEHAND 63 63 63 63 64 63 64 63 63 63 63 63 63 63 63	Cili KEDAH DEHAND 1635 1465 1465 1465 1465 1465 1465 1465 146	1323 TOTAL 1 0017011 1342 1345 1345 1345 1345 1346 1346 1356 1356 1356 1356 1356 1356 1356 135	Pedu SETICIT VITER CUT 0 0 0 0 0 0 0 0 0 0 0 0 0	a-Muda CUT KATE(Z) 300 400 100 0 0 0 0 0 0 0 0 0 0 0 0	, Ahning Total DEFICIT 223 257 257 257 257 257 277 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	g, Jer	YEAR 1961 1963 1963 1964 1964 1966 1966 1966 1971 1971 1971 1973 1975 1975	Beri: NUDA DEHAND 63 63 86 86 86 86 86 86 86 86 86 86 86 86 86	S KEDAH DEMAND 1629 1768 1622 1610 1622 1610 1636 1636 1636 1636 1636 1637	TOTAL OUTFUT 1424 1358 1427 1455 1322 1455 1461 1547 1556 1766 1567 171 1556 1769 1540	DEFICIT AFIER CUT 0 71 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	CUT RATE(X) 30 30 50 40 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL DEFICIT 268 284 607 513 367 0 0 0 181 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
MEAN SOUI YEAR 1961 1962 1964 1965 1966 1970 1976 1976 1977 1976 1976 1976 1976	CCE Fa HUDA 53 63 63 63 63 63 63 63 63 63 63 63 63 64 63 64 61 67 67 67 110 0 110 99	Cilii KEDAH DEHAND 1502 1437 1635 1465 1465 1465 1465 1465 1465 1465 1364 1533 1351 1454 1454 1454 1454 1350 1357 1454	1323 TOTAL 1 0UTPUT 1342 1213 1345 1257 1356 1564 1520 1563 1564 1520 1563 1564 1521 1561 1355 1600	Pedu 2007 2017 2017 2017 2017 2017 2017 2017	H-Muda CUT KATE(I) 30 40 30 40 30 40 30 60 60 30 60 60 60 60 60 60 60 60 60 6	, Ahning TOTAL DEFICIT 223 287 287 287 287 406 279 77 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	g, Jer	YEAR 1961 1962 1963 1964 1965 1966 1966 1969 1970 1971 1975 1975 1974 1975 1976 1977 1978	Beri: HUDA DEMAND 63 63 86 86 86 80 63 63 63 63 63 63 63 63 63 63	S KEDAH DENAND DENAND 1629 1768 1629 1768 1620 1597 1611 1636 1691 1637 1611 1636 1691 1617 1619 1679 1799 1679	TUTAL OUTFUT 1424 1353 1247 1252 1455 1461 1547 1769 1769 1769 1769 1769 1769 1769 176	DEFICIT AFIER CUT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	CUT RATE(X) 30 50 50 40 40 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL DEFICIT 288 284 607 513 360 0 0 0 181 0 0 0 0 0 0 0 0 0 0 0 0 0 0
MEAN SOULI YEAR 1961 1962 1965 1966 1966 1966 1966 1966 1966 1967 1971 1973 1973 1973 1973 1973 1973 197	CCE Fa HUDA DEHAND 63 67 70 63 63 63 63 63 63 63 63 63 63	Cilii KEDAH DEHAND 1502 1435 14636 1293 1451 1455 14636 1293 1455 14656 1293 14554 1457 14554 1354 1354 1354 1354 1354 1354 135	1323 TOTAL 1 0017017 1342 1343 1345 1345 1346 1346 1346 1356 1356 1356 1356 1356 1356 1356 135	Pedu 2017 - 201	A-Muda CUT KATE(Z) 25 30 40 40 10 0 0 0 0 0 0 0 0 0 0 0 0 0	, Ahning TOTAL DEFICIT 223 287 287 287 288 406 279 77 0 0 0 0 0 0 0 0 0 0 0 0 0	g, Jer	YEAR 1961 1963 1963 1965 1966 1966 1966 1967 1977 1977 1977 1977	Beri: NUDA DEHAND 63 63 86 86 86 86 86 86 86 86 86 86 86 86 86	S KEDAH DEMAND DEMAND 1629 1768 1622 1610 1395 1432 1590 1517 1430 1611 1616 1491 1619 1719	TOTAL OUTPUT 1424 1353 1247 1352 1495 1465 1465 1461 1547 1679 1711 1679 1740 1666 1653	DEFICIT AFTER CUT 0 0 71 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	CUT RATE(X) 30 50 50 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL DEFICIT 268 284 607 513 367 0 0 0 0 181 0 0 0 0 0 0 0 0 0 0 0 0 0
HEAN SOUI YEAR 1961 1962 1964 1966 1966 1970 1970 1971 1971 1972 1976 1976 1976 1976 1976 1976	CCE Fa HUDA 51 63 63 63 63 63 63 63 63 63 63 63 63 63	Cili KEDAH DEHAND 1502 1437 1635 1465 1465 1465 1465 1465 1364 1351 1454 1533 1351 1454 1533 1351 1454 1533 1351 1533 1351 1533 1351 1533 1351 1533 1351 1533 1354 1533 1354 1533 1354 1533 1354 1533 1354 1533 1354 1533 1354 1533 1354 1533 1354 1533 1354 1533 1354 1533 1354 1533 1354 1553 1555 155	1323 ties; Total 001PUT 1345 1345 1345 1345 1345 1356 1566 1566 1566 1516 15	Pedu DEFICIT WTER CUT 0 0 0 0 0 0 0 0 0 0 0 0 0	H-Muda CUT KATE(I) 30 40 30 40 30 40 30 60 60 30 60 60 60 60 60 60 60 60 60 6	, Ahning Total DEFICIT 223 287 287 287 287 279 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	g, Jer	YEAR 1961 1962 1963 1965 1966 1966 1966 1966 1966 1967 1977 1977	Beri: NUDA DEHAND 63 63 866 863 63 63 63 63 63 63 64 63 67 66 67 66 75 66 76 67 67 4 63 73 73 187 106 794 153	S KEDAH DENAND DENAND 1629 1529 1628 1610 1597 1611 1636 1691 1637 1619 1637 1619 1637	TOTAL OUIFUT 1424 1558 1257 1455 1455 1455 1456 1461 1547 1716 1549 1746 1549 1755 1355 1355 1355 1355 1355 1385	DEFICIT AFIER CUT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	CUT RATE(X) 30 50 50 40 40 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL DEFICIT 268 263 363 363 363 0 0 0 0 0 0 0 0 0 0 0 0 0
HEAN SOULI 1961 1962 1965 1966 1966 1970 1970 1970 1977 1978 1976 1976 1976 1976 1976 1976 1978 1978 1978 1978 1982 1983 NEAN	CCE Fa HUDA DEHAND 63 63 63 63 63 63 63 63 63 63 63 63 63	Cilii KEDAH DEHAND 1502 1437 1463 1463 1463 1463 1464 1465 1465 1465 1465 1465 1465 1465	1323 TOTAL 0007PDT 1342 1213 1345 1257 13564 1520 1363 1444 1530 1600 14214 1531 1357 1357 1358 1444 1530 1444 1531 114 1516 1135 12571 114 1516 1135 12571 114 1516 1135 12571 114 1516 1135 12571 114 1516 1135 12571 114 1157 1157 1157 1157 1157 1157 11	Pedu DEFICI WTER CUT WTER CUT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	A-Muda CUT KATE(Z) 25 30 30 40 30 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	, Ahning TOTAL DEFICIT 223 287 358 406 279 77 0 0 0 0 0 0 0 0 0 0 0 0 0		YEAR 1961 1962 1963 1965 1966 1966 1966 1966 1966 1967 1977 1977	Beri: NUDA DEMAND 63 63 860 860 860 63 178 675 667 743 187 165 678 755 668 755 668 755 668 755 668 755 668 1760 1760 1760 1760 1760 1760 1760 1760	S KEDAH DENAND 1629 1768 1626 1395 1616 1395 1619 1619 1718 1619 1718 1619 1718 1619 1718 1619 1718 1619 1718 1619 1718 1768 1619 1758 1768 1619 1758	Total. ourput 1424 1353 1245 1245 1355 1456 1456 1456 1467 1547 1547 1547 1547 1547 1549 1550 15	DEFICIT AFIER CUT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	CUT RATE(1) 30 50 50 40 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL DEFICIT 268 264 513 513 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
HEAN SOULI 1961 1962 1965 1966 1966 1970 1970 1970 1977 1978 1976 1976 1976 1976 1976 1976 1978 1978 1978 1988 1988 1988 1988 1988	CCE Fa HUDA DEHAND 63 67 63 63 63 63 63 63 63 63 63 63	Cilii KEDAH DEHAND 1502 1437 1463 1463 1463 1463 1464 1465 1465 1465 1465 1465 1465 1465	1323 ties; Total 1 0017901 1342 1345 1345 1345 1346 1546 1564 1498 1428 1520 1356 1498 1428 1520 1356 1356 1356 1356 1355 1358 1388 ties;	Pedu Percur WTER CUT 0 0 0 0 0 0 0 0 0 0 0 0 0	A-Muda CUT KATE(Z) 25 30 30 40 30 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	, Ahning TOTAL DEFICIT 223 287 358 406 279 77 0 0 0 0 0 0 0 0 0 0 0 0 0		YEAR 1961 1962 1963 19645 19665 19665 19669 1969 1969 1971 1975 1975 1975 1975 1975 1975 197	Beri: NUDA DEMAND 63 63 860 860 860 63 178 675 667 743 187 165 678 755 668 755 668 755 668 755 668 755 668 1760 1760 1760 1760 1760 1760 1760 1760	S KEDAH DENAND DENAND 1629 1768 1629 1768 1629 1630 1630 1630 1630 1641 1631 1631 1641 1631 1641 1631 1641 1632 1647	TUTAL OUTFUT 1424 1524 1527 1458 1766 16679 1711 1556 1663 1247 1385 1247 1385 1247 1385 1247 1385 1247 1385 1247 1550 1540 1666 1633 1247 1385 1247 1550 1540 1667 1667 1667 1667 1667 1667 1667 1755 1560 1697 1597 1500 TOTAL OUTPUT	DEFICIT AFIER CUT 0 0 71 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	CUT RATE(1) 30 50 50 40 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL DEFICIT 268 266 267 267 268 267 267 267 267 267 267 277 277 377 377 377 377 377 377 377 37
HEAN SOULI YEAR 1961 1962 1963 1964 1965 1966 1976 1971 1973 1974 1973 1974 1975 1977 1977 1978 1978 1978 1978 1978 1978	ссе Fa нира БЕНАЛЮ 63 63 63 63 63 63 63 63 63 63	Cili KEDAH DEHAND 1502 1437 1635 146	1323 ties; Total 1 OUTPUT 1342 1345 1345 1345 1346 1546 1546 1546 1546 1546 1520 1520 1520 1520 1520 1521 1521 1521 1520 1525 1526	Pedu Pedu VIER CUT VIER CUT 0 0 0 0 0 0 0 0 0 0 0 0 0	a-Muda CUT KATE(Z) 30 40 40 0 0 0 0 0 0 0 0 0 0 0 0 0	, Ahning Total DEFICIT 223 237 239 406 279 77 0 0 0 0 0 0 0 0 0 0 0 0 0		Piang, YEAR 1961 1962 1963 1965 1966 1966 1966 1970 1971 1973 1975	Beri: NUDA DEMAND 63 63 63 63 63 63 65 65 65 65 65 65 65 65 65 65	S KEDAH DENAND DENAND 1629 1579 1768 1620 1395 1395 1597 14801 1616 1691 1695 1695 1697 1617 1678 1677 1688 1693 1593 1593 1593 1593 1593 1593 1593 1583 S, Rel KEDAH DENAND 1629 1579 1583 1579 1688 1629 1579 1583 1629 1579 1688 1699	TOTAL OUTPUT 1424 1353 1295 1322 1495 1461 1457 1461 1579 1679 1679 1679 1679 1679 1679 1679 16	DEFICIT AFIER CUT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	CUT RATE(X) 30 50 50 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL DEFICIT 268 284 513 00 0 0 0 0 0 0 0 0 0 0 0 0
HEAN SOULI 1961 1962 1963 1964 1965 1966 1970 1977 1973 1974 1975 1975 1975 1975 1975 1975 1975 1975	ссе Fa нира БЕНАЛЮ 63 63 63 63 63 63 63 63 63 64 63 67 63 67 78 84 80 84 80 84 80 76 76 67 67 67 67 67 67 67 67	Cilii KEDAH DEHAND DEHAND 1502 1437 1437 1463 1463 1463 1463 1463 1464 1465 1465 1465 1465 1465 1452 1354 1454 1354 1455 1455 1455 1455 1455 1466 1502 1467 1466 1502 1467 1467 1465 1455 1465 1455 1465 14555 1455 1455 1455 1455 1455	1323 ties; Total 1 OUTPUT 1342 1345 1345 1345 1346 1546 1546 1550 1356 1428 1520 1560 1415 1358 ties; Total 1 1555 1368 ties; 1078 1	Pedu Pedu PFER CUT WTER CUT 0 0 0 0 0 0 0 0 0 0 0 0 0	a-Muda CUT KATE(Z) 300 400 400 00 00 00 00 00 00 00	, Ahning TOTAL DEFICIT 223 287 358 406 279 77 0 0 0 0 0 0 0 0 0 0 0 0 0		<pre>idang,</pre>	Beri: NUDA DEHAND 63 63 63 63 63 63 63 67 67 67 67 67 67 67 67 67 67	S KEDAH DENAND DENAND 1529 1768 1629 1768 1629 1432 1432 1432 1432 1437 1480 1491 1611 1636 1491 1613 1491 1613 1491 1613 1491 1613 1497 1613 1497 1613 1497 1613 1497 1613 1497 1613 1497 1613 1497 1613 1497 1613 1635 1645	TOTAL OUTFUT 424 358 1247 125 1458 1461 1547 1679 1711 1556 1663 1247 1385 1247 1385 1247 1385 1247 1385 1540 1666 1633 1247 1385 1540 1667 1540 1667 1500	DEFICIT AFIER CUT 0 0 71 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	CUT RATE(X) 30 50 50 20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL DEFICIT 268 284 513 513 0 0 0 0 0 0 0 0 0 0 0 0 0
HEAN SOULI YEAR 1961 1962 1964 1965 1966 1971 1973 1973 1973 1974 1975 1975 1975 1975 1978 1978 1978 1978 1978 1979 1981 1983 NEAN SOULI YEAR YEAR	CCE Fa BERAND 63 63 63 63 63 63 63 63 63 63	Cilii KEDAH DEHAND 1502 1437 1463 1463 1463 1463 1463 1463 1465 1465 1465 1465 1465 1465 1452 1337 1454 1454 1454 1454 1454 1454 1454 145	1323 ties; TOTAL 1 001701. 1342 213 1345 1345 1345 1346 1346 1346 1346 1355 1356 1357 1358	Pedu 2007 2017 2017 2017 2017 2017 2017 2017	A-Muda CUT RATE(Z) 30 40 30 40 30 40 10 0 0 0 0 0 0 0 0 0 0 0 0 0	, Ahning Total, DEFICIT 223 287 288 406 279 77 0 0 0 0 0 0 0 0 0 0 0 0 0		<pre>YEAR YEAR 1961 1963 1964 1965 1966 1968 1969 1971 1971 1975 1975 1975 1975 1975 1975 1975 1978 1978 1978 1978 1978 1978 1980 1</pre>	Beri: NUDA DEHAND 63 86 86 86 86 86 86 86 86 86 86	S KEDAH DENAND DENAND 1629 1768 1622 1768 1632 1432 1432 1432 1432 1437 1480 1491 1611 1636 1491 1613 1611 1636 1491 1613 1595 1595	TOTAL OUTFUT 1424 1538 1247 1455 1458 1461 1547 1540 1540 1666 1633 1247 1385 1540 1666 1633 1247 1385 1540 1666 1633 1247 1385 1540 1666 1633 1247 1795 1500	DEFICIT AFIER CUT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	CUT RATE(X) 30 50 50 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL DEFICIT 268 284 513 00 0 0 0 0 0 0 0 0 0 0 0 0
HEAN SOULI 1961 1962 1963 1965 1966 1966 1971 1973 1973 1973 1973 1973 1973 1973	CCE Fa HUDA DEHAND 63 67 70 63 63 63 63 63 63 64 64 64 64 64 64 64 64 64 64	C i l i 1 KEDAH DEHAND DEHAND 1502 14375 14636 14630 1293 1451 14630 1293 1451 14630 14630 14637 1496 1381 1354 1354 1354 1354 1354 1356 1466 1467 1496 1497 1565 1436 1467 1496 1497 1565 1436 1467 1565 1436 1467 1565 1436 1467 1565 1436 1467 1565 1436 1467 1565 1436 1565 1436 1467 1565 1436 1467 1565 1436 1467 1565 1436 1565 1436 1565 1436 1565 1466 1565 1467 1565 1466 1565 1467 1565 1466 1565 1466 1565 1467 1565 1466 1565 1467 1565 1466 1565 1466 1565 1467 1565 1466 1565 1466 1565 1467 1565 1466 1565 1466 1565 1466 1565 1466 1565 1466 1565 1466 1565 1466 1565 1466 1565 1466 1565 1466 1565 1466 1565 1466 1565 1466 1565 1466 1467 1565 1466 1467 1565 1466 1467 1565 1466 1467 1565 1466 1467 1565 1466 1465 1	1323 ties; TOTAL 1 0017901. 1342 1343 1345 1345 1346 1346 1346 1346 1348 1428 1350 1356 1358 1388 ties; TOTAL 1 0017901. 1344 1520 1565 1388 ties; TOTAL 1 0017901. 1344 1444 1520 1565 1388 ties; 1346 1444 1530 1555 1388 ties; 1346 1444 1530 1545 1546 1556 1566 1667 1675 1568 1675 1568 1675 1568 1575 1568 1568 1575 1568 1675 1568 1568 1575 1568 1568 1575 1568 1568 1575 1568 1575 1568 1575 1568 1568 1575	Pedu 2015	a-Muda CUT KATE(Z) 300 400 00 00 00 00 00 00 00 00	, Ahning DEFICIT 223 287 358 406 279 0 0 0 0 0 0 0 0 0 0 0 0 0		<pre>YEAR 1961 1962 1963 1964 1965 1966 1966 1967 1977 1977 1977 1978 1978 1978 1978 1978 1981 1983 NEAN YEAR YEAR 1961 1965 1966 1966 1967 1967 1968 1969 1977 1978 1</pre>	Beri: NUDA DEHAND 63 63 63 63 63 63 63 67 67 67 67 67 67 67 67 67 67	S KEDAH DENAND 1629 17688 1629 17688 1610 1395 1597 1480 1611 1613 1611 1613 1611 1613 1636 1629 1578 1583 S, Rel KEDAH DEMAND 1629 1578 1572 1583 1593 1573 1583 1593 1575 1583 1595 1595 1595 1595 1595 1629 1575 1595 1595 1595 1629 1595 1595 1595 1595 1629 1595 1595 1595 1595 1615 1615 1615 1615 1615 1629 1575 1595 1595 1595 1615 1615 1629 1575 1595 1595 1595 1615 1615 1629 1575 1595 1595 1595 1615 1655	TOTAL OUTFUT 1424 1524 1247 1455 1458 1461 1547 1461 1547 1715 1540 1666 1633 1247 1385 1540 1666 1633 1247 1385 1540 1666 1633 1247 1795 1500 TOTAL OUTFUT 1647 1404 1444 1495 1767 1647 1667 1647 1667 1647 1647 1647	DEFICIT AFIER CUT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	CUT RATE(X) 30 50 50 20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL DEFICIT 268 263 367 0 0 0 181 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
HEAN SOULI YEAR 1961 1963 1965 1966 1966 1967 1967 1971 1973 1973 1973 1975 1973 1975 1975 1975 1975 1975 1975 1975 1975	CCE F3 HUDA BEHAND 63 63 63 63 63 63 64 64 63 63 64 64 63 64 64 64 64 64 64 64 64 64 64	C i l i 1 KEDAH DENAND DENAND DENAND 1502 1480 1293 1457 1454 1381 1542 1330 1457 1454 1381 1565 1436 1496 1381 1565 1436 1497 1291 1565 1436 1497 1291 1565 1436 1497 1291 1565 1436 1497 1291 1565 1436 1497 1291 1565 1436 1497 1291 1565 1436 1497 1595 1456 1497 1595 1457 1581	1323 ties; TOTAL 1 0017PU1 1342 0017PU1 1345 1345 1345 1345 1356 1564 1444 1520 1565 1388 ties; TOTAL 1014 1555 1388 ties; 1565 1564 1428 1563 1563 1564 1563 1564 1563 1564 1563 1564 1563 1564 1563 1564 1563 1564 1563 1564 1565 1566 1566 1566 1566 1567 1567 1568 1578 10788 10788 1078 1078 1078 1078 1078 1078 1078 10	Pedu DEFICIT 0 0 0 0 0 0 0 0 0 0 0 0 0	A-Muda CUT RATE(Z) 25 30 40 10 0 0 0 0 0 0 0 0 0 0 0 0 0	<pre>, Ahning DOTAL DEFICIT 223 358 406 279 77 0 0 0 0 0 0 0 0 0 0 0 0 0</pre>		<pre>YEAR 1961 1963 1964 1965 1966 1966 1967 1971 1977 1977 1977 1977</pre>	Beri: NUDA DEMAND 63 63 63 63 63 63 63 63 63 63	S KEDAH DENAND DENAND 1629 1778 1629 1628 1629 1632 1432 1432 1432 1432 1432 1432 1437 1480 1691 1611 1631 1637 1611 1633 1637 1637 1649 1629 1641 1632 1641 1647 1641 1647	TOTAL OUTPUT 1424 1353 1247 1254 1455 1455 1461 1547 1540 1540 1666 1663 1247 1385 1540 1666 1663 1247 1385 1540 1666 1663 1247 1385 1540 1666 1663 1247 1795 1500	DEFICIT AFIER CUT 0 71 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	CUT RATE(X) 300 500 500 00 00 00 00 00 00 00 00 00 00	TOTAL DEFICIT 268 263 607 513 367 0 0 0 181 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
HEAN SOULI 1961 1962 1962 1965 1966 1966 1977 1973 1973 1973 1973 1973 1973 1973	CCE F3 HUDA BEHAND 63 63 63 63 63 63 63 64 64 63 63 64 64 63 64 64 64 64 64 64 64 64 64 64	C i l i 1 KEDAH DEHAND DEHAND DEHAND DEHAND 1502 1480 1293 1451 1455 1465 1381 1351 1457	1323 ties; TOTAL 1 0017901. 1342 1343 1345 1345 1346 1346 1346 1346 1346 1355 1356 1356 1356 1358 ties; TOTAL 1 1344 1520 1563 1358 ties; 1358 ties; 1358 ties; 1358 1444 1516 1355 1358 ties; 1358 1444 1516 1355 1358 ties; 1356 1566 1569 1563 1563 1563 1564 1563 1564 1563 1564 1563 1564 1563 1564 1565 1566 1566 1566 1567 1568 1569 1565 1566 1566 1567 1568 1569 1	Pedu 2015	A-Muda CUT RATE(Z) 300 400 400 00 00 00 00 00 00 00	<pre>, Ahning</pre>		<pre>YEAR 1961 1961 1963 1965 1966 1966 1967 1967 1977 1977 1977 1977</pre>	Beri: NUDA DEHAND 63 63 63 63 63 63 63 67 67 67 67 67 67 67 67 67 67	S KEDAH DENAND 1629 17688 1629 17688 1629 17688 1630 1597 1480 1611 1613 1611 1614 1631 16491 1614 1732 1583 S, RCI KEDAH DEMAND 1629 1578 1622 1615 1622 1615 1622 16162 1625 1625 1627 1676 1677 1676 1677 1676 1679 1716 1679 1716 1679 1716 1679 1716 1679 1716 1679 1716 1679 1678 1679 1678 1679 1678 1679 1678 1679 1678 1679 1678 1679 1678 1679 1678 1679 1678 1679 1678 16	TOTAL OUTFUT 1424 1558 1257 1456 1461 1461 1461 1467 1717 1556 1669 1669 1247 1785 1296 1296 1296 1296 1296 1297 1500 TOTAL OUTFUT 1667 14513 1400 1440 1455 1500 TOTAL 000 1416 1400 1425 1567	DEFICIT AFIER CUT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	CUT RATE(X) 30 50 50 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL DEFICIT 268 2607 513 367 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
HEAN SOULI 1961 1963 1965 1966 1966 1967 1967 1971 1972 1972 1972 1973 1975 1975 1975 1975 1975 1975 1975 1975	CCE Fa HUDA bEHAND 63 63 63 63 63 63 63 63 63 63	C i l i 1 KEDAH DEHAND DEHAND DEHAND DEHAND 1502 1480 1293 1451 1435 1465 1485 1485 1485 1485 1485 1381 1574 1574 1574 1574 1496 1497 1497 1498 1574 1497 1498 1574 1574 1496 1497 1498 1574 1574 1565 1406 1487 1497 1498 1574 1574 1574 1574 1575 1496 1497 1574 1574 1574 1574 1574 1574 1575 1496 1497 1574 1574 1574 1575 1496 1574 1574 1574 1574 1575 1496 1574 1574 1575 1496 1574 1574 1574 1575 1496 1574 1574 1575 1496 1574 1574 1574 1574 1574 1575 1496 1574 1574 1574 1574 1575 1496 1574 1574 1575 1496 1574 1574 1574 1575 1496 1574 1574 1574 1574 1574 1575 1496 1574 1574 1574 1575 1496 1574 1574 1575 1496 1574 1574 1574 1574 1574 1574 1574 1574 1574 1574 1574 1575 1496 1574 1574 1575 1496 1574 1575 1496 1576 1497 1576 1497 1576 1497 1576 1497 1575 1496 1575 1495 1497 1576 1497 1576 1497 1576 1497 1576 1497 1576 1497 1576 1497	1323 ties; Total 1 0017901 1345 1345 1345 1345 1345 1345 1345 1346 1346 1356 1356 1356 1356 1357 1358 ties; Total 1 1114 1555 1388 ties; Total 1 1345 1356 1356 1356 1358 ties; Total 1 1555 1388 ties; Total 1 1555 1388 ties; Total 1 1555 1388 ties; Total 1 1555 1388 ties; 1556 1557	Pedu DEFICIT WTER CUT 0 0 0 0 0 0 0 0 0 0 0 0 0	a-Muda CUT INTE(Z) 255 200 400 400 00 00 00 00 00 00 00	<pre>, Ahning TOTAL TOTAL DEFICIT 223 358 406 279 77 0 0 0 0 0 0 0 0 0 0 0 0 0</pre>		<pre>iiang,</pre>	Beri: NUDA DEMAND 63 63 63 63 63 63 63 63 67 67 67 67 67 67 67 67 67 67	S KEDAH DEMAND 1629 1768 1622 1768 1632 1597 1480 1491 1432 1491 1432 1491 1432 1491 1432 1491 1432 1491 1432 1491 1432 1481 1491 1477 1480 1629 1593 1480 1629 1595 1622 1610 1629 1595 1628 1629 1595 1628 1629 1595 1628 1629 1595 1629	TOTAL OUTPUT 1424 1558 1257 1458 1461 1461 1461 1556 1663 1769 1540 1666 1637 1245 1795 1500 TOTAL OUTPUT 1647 1657 1500 1647 1657 1657 1667 1667 1500 1500 1500 1500 1666 1637 1500 1500 1500 1500 1500 1667 1500 1667 1667 1667 1667 1500 1500 1667 1666 1667 1667 1657	DEFICIT AFIER CUT 0 71 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	CUT RATE(X) 30 30 50 50 40 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL DEFICIT 268 2607 513 367 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
HEAN SOULI 1961 1962 1963 1965 1966 1975 1965 1976 1977 1973 1973 1973 1973 1973 1973 1973	CCE Fa HUDA DEHAND 63 63 63 63 63 63 63 63 63 63	Cilii KEDAH DEHAND DEHAND DEHAND 1507 1435 14636 12633 1453 14636 12633 1453 14636 12633 1453 14636 14646 14666 14666 1466	1323 ties; Total 1 OUTPUT 1342 1343 1345 1346 1346 1346 1356 1368 1428 1428 1520 1356 1356 1444 1521 1356 1358 ties; TOTAL 1 1516 1357 1388 ties; TOTAL 1 1365 1368 1444 1521 1356 1368 1444 1521 1356 1368	Pedu 2015	a-Muda CUT INTE(Z) 255 200 300 300 00 00 00 00 00 00 00	<pre>, Ahning Deficit 223 358 406 279 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</pre>		<pre>11ang, YEAR 1961 1963 1964 1965 1966 1967 1967 1971 1977 1977 1977 1977 1977 1978 1980 YEAR 1966 1966 1966 1966 1967 1968 1964 1965 1965 1965 1966 1966 1966 1966 1966 1966 1967 1978 1978 1979 1970 1970 1971 1975 1977 1977 1978 1964 1965 1966 1967 1967 1978 1978 1977 1977 1977 1977 1978 1978 1978 1978 1978 1979 1978 1978 1978 1977 1978 1978 1979 1978 1979 1978 1976 1976 1977 1978</pre>	Beri: HUDA DEMAND 63 63 63 63 63 63 63 63 63 63	S KEDAH DENAND DENAND 1529 1768 1622 1432 1432 1432 1432 1432 1437 1480 1691 1437	TOTAL OUTPUT 1424 1358 1247 1455 1455 1458 1461 1547 1540 1540 1666 1633 1247 1385 1540 1666 1633 1247 1385 1540 1666 1633 1247 1795 1500 TOTAL OUTPUT 1647 1647 1647 1647 1647 1656 1647 1656 1657 1755 1556 1656 1655 17556 17557 1755 1755	DEFICIT AFIER CUT 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	CUT RATE(X) 30 50 50 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL DEFICIT 268 2607 513 367 0 0 181 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

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Case 2

	Case z					
Target Year	1990		Target	Year	2000	
Source Facilities;	Pedu-Muda, Ahning				Unit: 10) ^{6 m³}
HUDA KEDAH TOTAL YEAR DEHAND DEMAND OUTPUT	DEFICIT CUT TOTAL AFTER CUT RATE(X) DEFICIT	YEAR	MUDA KEDAN Démand Demand	TOTAL I QUIPUT	DEFICIT CUT AFTER CUT RATE(2)	TOTAL DEFICIT
1 EAR DETAGE ELAC 50 A 2 1961 63 1502 1205 963 63 1627 1205 964 67 1635 849 1965 66 1465 871 1965 66 1266 099 1966 63 1266 1099 1966 63 1266 1039 1966 63 1451 1238 1969 63 1451 1039 1971 63 1451 1236 1971 63 1351 1939 1971 63 1351 1322 1973 63 1351 1322 1975 65 1351 1322 1975 63 1351 1322 1975 63 1350 939 1980 72 1288 919 1981 70 1284 1059 1982 72 <td>$\begin{array}{cccccccccccccccccccccccccccccccccccc$</td> <td>1961 1962 1963 1964 1965 1965 1990 19970 19971 1977 1977 1977 1977 19</td> <td>63 1629 63 1579 79 1762 74 1620 63 1395 643 1492 104 1492 105 1576 65 1577 65 1577 65 1577 65 1577 65 1577 65 1577 65 1677 66 1691 66 1691 68 1679 101 1719 76 1478 73 1563 83 1732 74 1583</td> <td>1335 931 010 102 102 102 102 1470 1470 1470 1490 1495 1566 137 137 137 137 137 137 137 137 137 137</td> <td>0 40 0 75 33 75 6 5 75 0 20 41 20 0 50 1 20 1 20 2 20 3 20 0 30 3 20 0 30 3 20 0 30 3 20 0 30 3 20 0 30 3 20 0 32 0 3 2 20 3 20 0 32 0 3</td> <td>577 711 837 673 693 228 163 223 452 185 185 185 185 185 185 185 185 185 185</td>	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1961 1962 1963 1964 1965 1965 1990 19970 19971 1977 1977 1977 1977 19	63 1629 63 1579 79 1762 74 1620 63 1395 643 1492 104 1492 105 1576 65 1577 65 1577 65 1577 65 1577 65 1577 65 1577 65 1677 66 1691 66 1691 68 1679 101 1719 76 1478 73 1563 83 1732 74 1583	1335 931 010 102 102 102 102 1470 1470 1470 1490 1495 1566 137 137 137 137 137 137 137 137 137 137	0 40 0 75 33 75 6 5 75 0 20 41 20 0 50 1 20 1 20 2 20 3 20 0 30 3 20 0 30 3 20 0 30 3 20 0 30 3 20 0 30 3 20 0 32 0 3 2 20 3 20 0 32 0 3	577 711 837 673 693 228 163 223 452 185 185 185 185 185 185 185 185 185 185
Source Facilities;	Pedu-Muda, Ahning,		HUDA KEDAH DEMAND DEMAND	TOTAL	DEFICIT CUT AFTER CUT RATE(%)	TOTAL
YEAR DEPLAND DEMAND OUTPUT 1961 63 1502 1253	DEFICIT CUT TOTAL AFTER CUT RATE(X) DEFICIT 0 35 312	YEAR 1961		OUTPUT 1424 1263		268
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1962 1964 1964 1965 1966 1966 1969 1970 1971 1972 1974 1974 1975 1976 1977 1978 1978 1978 1980 1981 1982	63 1629 63 1579 79 1768 74 1622 74 1622 104 592 105 1577 65 1577 65 1577 65 1577 65 1611 66 1691 66 1691 66 1691 66 1691 66 1691 66 1691 66 1691 68 1677 68 1677 68 1677 88 1677 88 1678 76 1678 77 1688 76 1678 76 1678 76 1678 76 1678 76 1678 76 1678 76 1678 77 1688 76 1677 76 1678 76 1677 76 1677 76 1677 76 1677 76 1677 76 1677 76 1677 76 1677 77 1677 78 1677 78 1678 78 1677 78 1678 78 1677 78 1678 78 1677 78 1678 78 1678 78 1678 78 1677 78 1678 78 1678 78 1677 78 1678 78 1677 78 1678 78 167778 78 1678778 78 16787778 78 16787778	1263 1278 1176 1206 14953 1653 1371 1676 1385 1792 1598 1598 1598 1598 1299 1568 1291 1734 1739 1671	0 30 0 40 33 50 6 50 0 0 0 40 0 40 0 40 0 1 0 2 20 2 20 2 20 2 20 2 20 3 0 1 0 2 20 2 30 2 20 2 20 2 30 2 20 2 30 2 20 2 30 2 20 2 30 2 20 2 30 2 20 2 30 2 10 2 20 2 30 2 20 2 30 2 30 2 20 2 30 2 30 3 40 2 30 3 40 3 50 3 50 3 70 3	575 569 519 463 152 0 271 1 2 3 171 2 242 95 242 95 395 272 108 395 210 368 395 210 368 144
HEAN 69 1436 1323	16 18 182	HEAN	74 1583	1435	25 21	221
Source Facilities; NUDA KEDAH TOTAL YEAR DEMAND DEMAND OUTPUT	Pedu-Muda, Ahning, DEFICIT CUT TOTAL AFTER CUT RATE(2) DEFICIT	Jeniang,	Beris Muda KEDAH DEMAND DEMAND	TOTAL OUTPUT	DEFICIT CUT AFTER CUT RATE(2)	TOTAL DEFICIT
1961 63 1502 1559 1962 63 1437 1117 1963 67 1635 1278 1964 67 1655 1276 1965 663 1206 1327 1966 63 1265 1326 1967 63 1273 1552 1969 9 1435 1522 1967 63 1364 1428 1971 63 1364 1428 1972 63 1361 1446 1975 63 1351 1610 1977 83 1542 1613 1976 7 1533 1640 1977 83 1542 1613 1977 83 1542 1613 1979 74 1447 1253 1981 70 1574 1644 1983 80 1565 1645 1983 80	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	961 962 963 964 965 966 966 966 966 970 971 971 972 977 977 977 977 977 977 977 977 978 979 979	63 1629 79 1768 74 1622 74 1622 63 1395 63 1432 104 1902 65 1577 65 1480 65 1480 66 1491 66 1491 66 1491 66 1491 66 1491 66 1691 76 1719 76 1719 77 1593 78 1473 86 1461 83 1732 74 1583	1424 1326 1255 1182 1313 1495 1642 1642 1678 1678 1678 1678 1678 1678 1678 1678	0 30 30 57 50 0 40 0 40 0 0 0 0 0 0 0 0 0 0	268 284 5513 367 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	Pedu-Muda, Ahning,	Jeniang,				TOTA
YEAR DEMAND DEMAND OUTPUT 1961 63 1502 1565	DEFICIT CUT TOTAL AFTER CUT RATE(2) DEFICIT 0 0 0 0	YEAR 1961	NUDA KEDNI DEMAND DEHAND 63 1629		0 0	TOTAL DEFICIT
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	9012 19613 19614 19654 19655 19657 19658 19658 19659 19711 19773 19773 19773 19775 19775 19775 19775 19775 19775 19775 19775 19778 19790 19802 19813		1692 1500 1433 1344 1693 1693 1693 1693 1693 1693 1693 1764 1765 1766 1565 1565 1565 1766 1766 1603 1819 1419 15305 1743 1815	$\begin{array}{c} 0 \\ 45 \\ 45 \\ 18 \\ 20 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ $	142 2050 247 114 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

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HEAN

HEAN

SUMMARY OF RESULTS OF OPERATION STUDY (3/3)

Case 3

Target Year 1990

Target Year 2000

										rarge	c rea	1 200	0	
Sou	rce Fa	cilit	ies;	Pedu	-Muda	, Ahning						Un	it: 1	0 ⁶ m ³
YEAR	HUDA Demand	KEDAN DEMAND	TOTAL OUTPUT	DEFICIT AFTER CUT	CUT RATE(X)	TOTAL DEFICIT		YEAR	NUDA DENAND	KEDAN DEMAND	TOTAL DUTPUT		CUT RATE(X)	
1961 1962	63 63	1502 1437 1635	1205 924 848	32	40 60	360 576		1961 1962 1963		1629 1579 1768	1335 931 1005	0 24		357
1963 1964 1965 1966	64 64	1465	870 945 1099	326000005000	60 75 65 65 30	851 659 597		1963 1964 1965	63 65 65 64	1768 1622 1610	1005 1019 986	24 0	40 25 75 65 20 20	711 828 667 688
1967 1968 1969	63 67 61	1293	1356 1238 1039	0.5	30 30	230 0 280	÷	1966 1967 1968	64 63 63 68	1622 1610 1395 1432 1577 1480 1611 1636 1491	1230 1332 1469	0 0 7	30 20 20	228 163 189
1970	63 63	1364 1457 1496	1240 1520 1281	0	20	459 188 0		1969 1970 1971	63 63	1577 1480 1611	1189 1360 1494	0 0 0	50 20 20	451 183 181
1973	63 64	1381 1533 1351	1182 1593 922	00040	30 30 0	279 262		1972 1973 1974 1975	64 64 64	1636 1491 1696	1515 1299 1564	0 0 0	20 30 20 50 40	185 255 196
1976 1977 1978	633 6644 666 667 663 663 664 664 664 664 664 664 664 664	1454 1542 1330 1447	1161	230 230 25	0 30 20 30 30 69 40 50 50 50 50 50 50 50 50	357 230		1976 1977 1978	63 64 68	1696 1477 1619 1719 1478 1593	1137 1314 1487	0 299	0	403 369 299
1979 1980 1981 1982	65 64 64	1447 1288 1574 1291	1378 935 1059 918 1351	- 5 1	50 50 30	453 435 287	· .	1979	65 67 65 65	1593 1437 1768	1004 1198 986	10	60 50 30 75 35	539 462 516
1983	64 64 65	1565	1351 712 1469	6 5	-	644 162		1981 1982 1983	66	1461 1732	1537 884 1418	8 5	30 75 35	296 643 38D
HEAN	64	1436	1141	14	38	359		HEAN	65	1583	1247	16	42	400
÷.,	CCE Fa	KEDAN DEMAND		Pedu-	-Muda	Ahning,	Jeni	-	HUDA Demand	KEDAN DEMAND	TOTAL	DEFICIT AFTER CUT	CUT RATE(2)	TOTAL
YEAR 1961 1962 1963	63		1253 1117 1379			312		YEAR 1961		1629 1579 1768	1424 1263	AFTER CUT	RATE(1) 30 40	268 379
1963 1964 1965	63444 8337 33334 334 664544445 665 665 665 6666666666666666	1502 1437 1635 1465 1480	1379 1123 1176	0 52 0 0 5 0 0 5 0 0 0 0 0 0 0 0 0 0 0 0	35 40 25 40 25 0	383 320 406 367	. · · ·	1962 1963 1964 1965	6335554337833344443485755566 6666666666666666666666666666666	1768 1622 1610	1277 1173 1215	21 0 0	- 50	556 513 459
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1969 1970 1971	63 63 63	1435 1364 1457	1269 1428 1520	0 0 0	0 25 0 0	229 0 0		1969 1970 1971	63 63 64	1577 1480 1611 1636	1370 1543 1675 1700	0 0 0 0	0 30 0	270 0 0
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1975 1976 1977	63 64 66	1351 1454 1542	1209 1429 1412	196 2 5	25 10 0	89 196		1975 1976 1977 1978	63 64 68	1477 1619 1719 1478	1298 1591 1566	. 221	. 10 . 0	242 92 221
1978 1979 1980	65 64	1330 1447 1288 1574	1412 1072 1283 1051	5	0 10 25 10 35 25 35 10	322 229 302		1979 1979 1980 1981	67 65	1593 1437 1768	1183 1288 1245 1733 1177	101	20 0 30 10 40 30 30 10	242 92 221 360 372 257 100
1981 1982 1983	64 65	1291 1565	1051 1541 1010 1625		40 0	97 346 6		1982 1983		1461 1732	16/6	12 15	40 10	350 122
					18			MEAN	65	1583	1434	17	21	213
HEAN	64	1436	1322			378					1404	17	21	115
	ce Fa	ciliț	ies;	Pedu-	-Muda,	Ahning,	Jeni		Beri	s				
SOUT	CE Fa	cilit KEDAH DEMAND	ies;	Pedu-		Ahning,	Jeni	ang, year	Beri Muda Demand	S KEDAH DEMAND	TOTAL OUTPUT	DEFICIT AFTER CUT	CUT RATE(%)	TOTAL DEFICIT
Sour	CE Fa HUDA DEMAND 63 63 64	Cilit KEDAH DEMAND 1502 1437 1635	1es; Tetal OUTPUT 1563 1117 1292	Pedu-	-Muda,	Ahning, TOTAL DEFICIT 2 383 407	Jeni	ang, year 1961 1963 1963	Beri Muda Demand	S KEDAH DEMAND	TOTAL OUTPUT 1513 1341 1207 1173	DEFICIT AFTER CUT 0 17 91	CUT RATE(%)	TOTAL DEFICIT
SOUT	CE Fa HUDA DEMAND 63 63 64	cilit KEDAH DEMAND	ies;	Pedu-	-Muda,	Ahning, DEFICIT 383	Jeni	YEAR 1961 1962 1963 1964 1965 1965 1967	Beri HUDA DEHAND 63 63 63 65 64 63	S KEDAH DEMAND 1629 1579 1768 1622 1610 1395 1432	TOTAL OUTPUT 1513 1341 1207	DEFICIT AFTER CUT 0 17 91 0 0 0 0	CUT RATE(%) 30 50 50 40 0	TOTAL DEFICIT 179 301 626 513 367 0
SOU1 YEAR 1961 1962 1963 1964	CCE Fa HUDA DEMAND 63 64 64 64 63 63 63 67	Cilit KEDAH DEMAND 1502 1437 1635 1465	105; TOTAL OUTPUT 1563 1117 1592 1073	Pedu-	-Muda, CUT RATE(Z) 0 40 35 45 30 0 0 0 0 0 0 0	Ahning, <u>DEFICIT</u> 2 383 407 405 275 0 0 0 0 0 0 0	Jeni	ang, year 1961 1962 1963 1964 1965 1965 1967 1968 1969 1970	Beri HUDA DEHAND 63 63 63 65 64 63	S KEDAH DEMAND 1629 1768 1622 1610 1395 1432 1590	TOTAL OUTPUT 1513 1341 1207 1458 1495 1658 1658 1658 1658	DEFICIT AFTER CUT 0 17 91 0 0	CUT RATE(%) 30 50 50 40 0	TOTAL DEFICIT 179 301 626 513 367 0
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SOU1 YEAR 1961 1963 1965 1965 1965 1967 1968 1950 1970 1971 1972 1973	CCE Fa HUDA DEMAND 63 64 64 64 63 63 63 63 63 64 64 64 64 64 64 64 64 64 64	cilit KEDAH DEMAND 1502 1437 1435 1465 1266 1293 1263 1364 1435 1364 1457 1496 1381 1533	ies; Tetal. 0017PUT 1563 1117 1292 1073 1268 1356 1518 1498 1498 1428 1448 1448 1448 1448 1538 1548 1550 1	Pedu- DEFICIT AFTER CUT 2 0 32 0 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-Muda, cur RATE(z) 0 40 35 45 30 0 0 0 0 0 0 0 0 0 0 0 0 0	Ahning, <u>DEFICIT</u> 2 383 407 456 275 0 0 0 0 0 0 0 0 0 0 0 0 0	Jeni	ang, year 1961 1962 1963 1964 1965 1966 1966 1967 1971 1972 1974 1975 1975	Beri PUDA DEMAND 63 65 64 63 63 63 63 64 64 64 64 64 64 64 65 65 65 65 65 65 65 65 65 65	S KEDAH DEHAND DEHAND 1629 1768 1622 1610 1395 1590 1597 1480 1611 1611 1699 1491 1699 1491 1699 1679 1679 1679 1679 1679 1679 1679 1679 1768 1679 1679 1679 1679 1679 1679 1679 1679 1679 1679 1679 1679 1679 1679 1678 1679 1709 170	TOTAL OUTPUT 1513 1341 1207 1458 1495 1658 6489 1543 1675 1700 1554 1760 1540 1681	DEFICIT AFTER CUT 0 17 91 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	CUT RAIE(%) 30 50 60 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL DEFICIT 179 301 626 5313 367 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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SOUL YEAR 1961 1962 1963 1965 1966 1967 1977 19773 19773 19773 19773 19773 19773 19773 19773 19773 19780 1983 HEAN SOUL YEAR 1964 1963 1964 1965 19663 1965	CCE Fa HUDA DEMAND 63 63 64 64 64 63 63 64 64 65 66 64 66 64 66 64 66 64 66 64 66 64 66 64 66 66	Cilit KEDAH DEMARD 1502 1635 16490 1295 1635 16490 1295 1635 16490 1295 1635 16490 1295 1635 16490 1295 16490 1295 12	ies; TOTAL OUTPUT 1563 1292 1268 1286 1286 1292 1268 1292 1268 1386 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1500 1605 1007 1075 107	Pedu- DEFICIT AFTER CUT 2 0 32 0 0 0 0 0 0 0 0 0 0 0 0 0	Muda, CUT RATE(Z) 0 0 0 0 0 0 0 0 0 0 0 0 0	Ahning, TOTAL DEFICIT 2 383 407 407 407 405 275 0 0 0 0 0 0 0 0 0 0 0 0 0		ang, year 1961 1962 1963 1964 1965 1966 1967 1971 1971 1971 1977 1977 1977 1977 1975	Beri MUDA 63 63 63 63 64 64 64 64 65 65 65 65 65 65 65 65 65 65	S KEDAH DEMANU 1629 1579 1768 1622 1610 1393 1480 1611 1611 1611 1611 1611 1611 1611 1611 1611 1611 1611 1611 1617 1629 1622 1622 1622 1622 1622 1622 1622 1622 1622 1622 1622 1622 1622 1622 1622 1622 1625 1655 1655 1655 1655 1655 1655 1655 1655 1655 1655 1655 1655 1655 1655 1655 16555 1655 1655 1655 1655 1655 1655 1655 1655	TOTAL OUTPUT 1513 1513 1513 1513 1513 1513 1658 1649 1543 1675 1700 1543 1652 1527 1527 1527 1527 1527 1528 1549 1543 1554 1565 156	DEFICIT AFTER CUT 0 17 91 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	CUT RAIE(2) 20 30 50 50 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL DEFICIT 179 179 626 513 367 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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SOUT 1961 1962 1963 1965 1966 1967 1967 19712 19713 19713 19713 19773 19773 19773 19773 19773 19773 19773 19773 19773 19773 19773 19773 19773 1980 1980 1980 1980 1980 1980 1980 1980	CCE Fa HUDA DEMAND 63 63 64 64 64 63 63 63 64 63 63 64 65 64 65 66 66 65 66 66 66 66 66 65 66 66	cilit. KEDAH DEMARD 1502 1635 1635 1635 1635 1635 1636 1293 1435 1435 1435 1435 1435 1435 1435 1435 1435 1331 1351 1457 1435 1351 1457 1	ies; TOTAL OUTPUT 1563 1117 1292 129	Pedu- DEFICIT AFTER CUT 2 0 32 0 0 0 0 0 0 0 0 0 0 0 0 0	Muda, CUT RATE(Z) 0 0 0 0 0 0 0 0 0 0 0 0 0	Ahning, TOTAL DEFICIT 2 383 407 455 275 0 0 0 0 0 0 0 0 0 0 0 0 0		ang, year 1961 1963 1963 1965 1966 1966 1967 1972 1974 1975 1976 1977 1976 1977 1976 1977 1978 1980 1970 19777 19777 19777 19777 197777 19777 19777 197777777 19777	Beri MUDA DEMAND 63 65 65 63 63 63 63 64 64 64 65 65 65 66 65 65 66 65 65 65 65 65 66 65 65	S KEDAH DEMANU 1629 1768 1622 1610 1390 1480 1611 1636 1649 1649 1649 1649 1649 1719	TOTAL OUTPUT 1513 1513 1513 1513 1513 1513 1513 1513 1513 1513 1513 1513 1513 1513 1543 1543 1543 1543 1543 1543 1543 1543 1540 1540 1540 1455 1455 1455 1455 1455 1455 1455 1500 1455 1455 1455 1500 1455 1500 1455 1500 1455 1500 1543 1658 1658 1658 1500 1540 1500 1500 1500 1540 1500 1603 1500 1603 1500 1603 1000 1603 10000 1000 1000 1000 1000 1000 1000 1000 1000 10	DEFICIT AFTER CUT 91 91 90 90 90 90 90 90 90 90 90 90 90 90 90	CUT RAIE(2) 20 30 50 50 50 50 50 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL DEFICIT 179 626 513 367 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
SOUI YEAR 1961 1963 1965 1965 1967 1971 1971 1971 1973 1975 1975 1975 1975 1975 1975 1975 1975 1975 1975 1975 1983 EAN SOUI YEAR 1963 1965 1966 1966 1967 1975 1965 1965 1965 1975 1	CCE Fa HUDA DEMAND 63 63 64 64 64 63 63 63 63 64 64 64 65 64 64 64 64 65 64 64 64 64 65 64 64 64 64 64 65 64 64 64 64 65 64 64 64 64 65 64 64 65 64 64 65 65 65 65 65 65 65 65 65 65	Cilit. KEDAH DEMARD 1502 1605 1	ies; TOTAL OUTPUT 1563 1117 1292 1292 1292 1356 1498 1498 1498 1498 1498 1498 1498 1520 1560 1607 163	Pedu- DEFICIT AFTER CUT 2 0 32 0 0 0 0 0 0 0 0 0 0 0 0 0	-Muda, CUT EXIE(Z) 0 0 0 0 0 0 0 0 0 0 0 0 0	Ahning, TOTAL DEFICIT 2 383 407 407 407 407 407 0 0 0 0 0 0 0 0 0 0 0 0 0		ang, year 1961 1962 1963 1964 1965 1966 1967 1977 1977 1977 1977 1977 1977	Beri MUDA DEMAND 63 63 63 63 63 64 64 64 65 65 65 65 65 65 65 65 65 65	S KEDAH DEMANU 1629 1579 1768 1622 1610 1395 1480 1611 1611 1611 1611 1611 1611 1611 1611 1611 1611 1613 1637 1732 1583 5, RCI KEDAH DEMAND 1629 1577 1685 1625 1625 1625 1625 1625 1625 1625 1625 1626 1629 1629 1629 1629 1629 1629 1629 1629 1629 1629 1629 1629 1630 1630 1630 1630 1635 1645 1635 1	TOTAL OUTPUT 1513 1207 1458 1495 1495 1495 1495 1495 1495 1495 1495 1495 1495 1495 1495 1495 1495 1540 1611 1242 1633 1225 1371 1242 1632 1637 1245 1554 1500 1495 1692 1692 1692 1692 1692 1695 1692 1695 169	DEFICIT AFTER CUT 0 17 91 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	CUT RAIE(2) 20 30 50 50 50 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL DEFICIT 179 626 533 367 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
SOUT 1961 1962 1963 1965 1967 1972 1973 1977 1977 1977 1975 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1980 1996 1996 1997 1978 1977 1977 1978 1977 1977 1978 1978 1978 1978 1978 1977 1978 19778 1978 1978 1978 1978 1978 1978 1978	CCE Fa HUDA DEMAND 63 63 64 64 64 63 63 63 64 64 65 64 65 64 65 64 65 64 65 64 65 64 65 64 65 64 65 65 65 65 65 65 65 65 65 65	Cilit KEDAH DEMAND 1502 1635 1635 1635 1636 12293 1436 12293 1436 12293 1436 12293 1436 1331 1351 1436 1351 1436 1351 1436 1291 1565 1436 Cilit. KEDAH DEMAND Cilit. KEDAH 1291 1565 1436 1307 1635 1436 1367 1635 1436 1367 1635 1436 1367 1635 1436 1367 1635 1436 1367 1635 1436 1367 1635 1436 1542 1353 1351 1654 1353 1354 1355 1456 1351 1456 1367 1456 1351 1456 1367 1456 1351 1456 1367 1456 1367 1456 1456 1456 1456 1456 1456 1456 1456	ies; TOTAL OUTPUT 1563 1117 1292 1268 1498 1560 1631 1386 1631 1386 1631 1386 1631 1386 1631 1386 1631 1386 1631 1386 1631 1386 1631 1386 1631 1386 1631 1386 1631 1386 1632 1637 1444 1518 1608 1560 1560 1565 1565 1578 1585 1585 1585 1585 1585 1585 1585 1585 1585 1585 1585 1585 1585 1586 1586 1586 1587 169	Pedu- DEFICIT AFTER CUT 2 0 32 0 0 0 0 0 0 0 0 0 0 0 0 0	Muda, CUT RATE(2) 0 0 0 0 0 0 0 0 0 0 0 0 0	Ahning, TOTAL DEFICIT 2 383 407 455 275 0 0 0 0 0 0 0 0 0 0 0 0 0		ang, year 1961 1963 1963 1963 1965 1966 1967 1977 1977 1978 1976 1977 1976 1977	Beri MUDA DEMAND 63 65 65 64 63 63 64 64 66 65 65 66 65 65 66 65 65 66 65 65 66 65 65	S KEDAH DEMANU 1629 1768 1622 1610 1390 1393 1480 1611 1616 1616 1616 1617 1732 1583 S, Rei KEDAR DEMAND 1629 1622 1622 1623 1625 1635 1	TOTAL OUTPUT 1513 1513 1513 1513 1513 1658 1658 1658 1500 1641 1510 1651 1510 1543 15760 1560 1651 1500 1641 1500 1651 1500 1692 1692 1692 1692 1692 1692 1692 1692 1692 1692 1692 1692 1692 1692 1692 1692 1692 1692 1692 1695 1760 1568 1695 1760 1568 1760 1760 1568 1760 1568 1760 1568 1766 1766 1766 1568 1766 1568 1766 17	DEFICIT AFTER CUT 91 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	CUT RAIE(2) 20 50 50 50 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL DEFICIT 179 626 513 367 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
 SOUL YEAR 1961 1963 1965 1965 1967 1973 1973 1973 1973 1973 1973 1973 1973 1973 1975 1973 1975 1973 1975 1973 1963 1963 1965 1965 1965 1965 1967 1975 1977 1975 1975 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1977 1978	CCE Fa HUDA DEMAND 63 63 64 64 64 63 63 64 63 64 64 65 66 66 66 66 66 66 66 66 66	Cilit KEDAH DEMARD 1502 1635 1635 1635 1635 1635 1636 1293 1435 1436 1351 1457 14	ies; TOTAL OUTPUT 1563 1563 1292 1292 1292 1292 1292 1292 1292 1292 1292 1292 1292 1292 1292 1356 1498 1498 1600 1631 1386 ies; TOTAL OUTPUT 1565 1074 1575 1575 1575 1575 1576 1576 1576 1577 1414 1576 1577 1637 1425 1576 1576 1576 1576 1576 1576 1576 1576 1576 1576 1576 1576 1576 1576 1577 1637 1425 1576 1576 1576 1576 1576 1577 1637 1425 1576 1576 1576 1576 1576 1576 1576 1576 1576 1576 1577 1637 1425 1576 1576 1576 1576 1577 1637 1425 1576 1576 1576 1576 1576 1576 1577 1637 1425 1576 1576 1576 1576 1576 1576 1576 1577 1637 1425 1576 1576 1576 1576 1577 1425 1576 1577 1425 1576 1576 1577 1425 1576 1576 1576 1577 1427 1576 1577 1427 1576 1577 1427 1576 1576 1577 1427 1576 1577 1427 1576 1577 1427 1576 1577 1427 1576 1577 1427 1576 1577 1427 1576 1577 1427 1576 1577 1427 1576 1577 1427 1576 1577 1427 1576 1576 1577 1427 1576 1576 1576 1576 1576 1577 157 15	Pedu- DEFICIT AFTER CUT 2 0 32 0 0 0 0 0 0 0 0 0 0 0 0 0	-Muda, CUT RATE(Z) 0 0 0 0 0 0 0 0 0 0 0 0 0	Ahning, TOTAL DEFICIT 2 383 407 407 455 275 0 0 0 0 0 0 0 0 0 0 0 0 0		ang, year 1961 1962 1963 1964 1965 1966 1967 1977 1977 1977 1977 1977 1977	Beri PUDA DEMAND 63 63 63 63 63 63 64 64 64 65 65 65 65 65 65 65 65 65 65	S KEDAH DEMANU 1629 1579 1768 1622 1619 1395 1480 1611 1611 1611 1611 1611 1611 1611 1611 1611 1611 1615 1629 1735 1629 1629 1735 1629 1768 1629 1637 1645 1637 1645 1637 1647	TOTAL OUTPUT 1513 1513 1513 1513 1513 1513 1695 1695 1655 1700 1640 1540 1653 1225 1321 1242 1632 1242 1632 1242 1554 1560 1660 1661 1675 1692 1692 1692 1692 1692 1692 1692 1693 1692 1692 1692 1692 1692 1692 1693 1692 1693 1695 1696 1695 1696 1695 1696 1695 169	DEFICIT AFTER CUT 0 17 91 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	CUT RAIE(2) 20 30 50 50 50 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL DEFICIT 179 301 513 367 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
SOUT 1961 1962 1963 1965 1965 1967 1972 1977 1977 1977 1977 1978 1982 1983 1982 1983 1982 1983 1982 1983 1984 1964 1966 1966 1966 1966 1966 1966 196	CCE Fa HUDA DEMAND 63 63 64 64 64 63 63 63 64 64 65 64 65 64 65 64 65 64 65 64 65 64 65 64 65 64 65 64 65 64 65 64 65 64 65 64 65 64 65 65 65 65 65 65 65 65 65 65	Cilit KEDAH DEMAND 1502 1635 1635 1635 1635 1635 1635 1635 1635	ies; TOTAL OUTPUT 1563 1117 1292 1268 1356 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1498 1500 1560 1631 1386 1631 1386 1631 1386 1631 1386 1631 1386 1631 1386 1631 1386 1631 1386 1631 1386 1631 1386 1632 1632 1632 1638 1074L 1074L 1075 1638 1074L 1074L 1075 1638 1007 1637 1444 1518 1638 1007 1637 1444 1518 1648 1565 1568 1644 1576 1565	Pedu- DEFICIT AFTER CUT 2 0 32 0 0 0 0 0 0 0 0 0 0 0 0 0	-Muda, CUT RATE(Z) 0 40 0 0 0 0 0 0 0 0 0 0 0 0 0	Ahning, TOTAL DEFICIT 2 383 407 455 275 0 0 0 0 0 0 0 0 0 0 0 0 0		ang, year 1961 1963 1963 1966 1966 1966 1967 1977 1977 1977 1978 1980 1997 1977 1978 1977 1978 1977 1978 1977 1978 1977 1978 1977 1978 1977 1978 1977 1978 1978 1977 1978 1978 1977 1978 1978 1977 1978 1978 1977 1978 1978 1977 1978 1978 1977 1978 1978 1977 1978 1977 1978 1978 1977 1978 1978 1977 1978 1978 1978 1977 1978 1977 1978 1978 1977 1978 1977 1978 1978 1978 1978 1978 1977 1978	Beri MUDA DEMAND 63 65 65 64 63 63 64 64 66 65 65 66 65 65 66 65 65 65 65 65 65	S KEDAH DEMANU 1629 1768 1622 1610 1390 1480 1611 1611 1611 1619 1719 1718 1619 1719 1718 1619 1719 1718 1619 1719 1718 1619 1719 1718 1629 1622 1629 1649	TOTAL OUTPUT 1513 1513 1513 1513 1513 1658 1658 1651 1500 1661 1633 1522 1227 1222 122	DEFICIT AFTER CUT 91 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	CUT RAIE(2) 20 50 50 50 60 0 0 0 0 0 0 0 0 0 0 0 0 0	TOTAL DEFICIT 179 6226 513 367 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

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Table 66NET WATER OUTPUT OF PEDU-MUDA,
AHNING AND MENGKUANG DAMS

Unit: 10⁶ m³

		AVERA	GE A	NNUAL NE	T WATER OU	JTPU	<u>⊤</u> <u>∕</u> *	
	198	3		19	90		20	00
	Kedah	Muda		Kedah	Muda		Kedah	Muda
Deficit	1087	5		1072	18	: .*	1115	43
Pedu + Muda	679		· . ·	668	• •		671	
Ahning		•		46			45	
Mengkuang	:				6	•		14
Remaining Deficit	408	5		358	12		399	29

Remark; *: Average of 23 years from 1961 to 1983

Table 67 NET WATER OUTPUT OF JENIANG AND BERIS

	Arrowa		N	Out which
	Averaç 190	the state of the second st	Net Water 20	00 00
	Kedah	Muda	Kedah	Muda
Deficit /1	358	12	399	29
Jeniang	182		185	
Beris	55	10	40	26
Remaining deficit	121	2	174	3
	2			

(1) Case 1 (Muda Priority)

(2) Case 2 (Intermediate)

· · · · · ·	Averag	e Annual	Net Water	Output
	199	0	20	00
	Kedah	Muda	Kedah	Muda
Deficit /1	358	12	399	29
Jeniang	182		187	
Beris	60	5	55	10
Remaining deficit	116	7	157	19

(3) Case 3 (Kedah Priority)

1990 dah M	luda I	2000 Kedah l	
dah N	Auda 1	Zodah I	-
		<u>leuan</u>	Muda
58	12	399	29
82	·	187	
62	. 1 ·	64	2
	58 82 62	82	82 187

Remark; <u>/1</u>: Deficit deducted by the outputs of the Pedu-Muda, Ahning and Mengkuang dams as shown in Table 66.

Table 68NET WATER OUTPUT OF COMBINATIONS FORCASE 1 IN 2000 (Muda Priority)

Unit: 10^6 m^3

	ана 1941 - 1941 - <u>1</u>		Co	mbinations		
	(e)	(f)	(g)	(h)	(i)	(j)
Source facilities	Jeniang Beris Reman	Jeniang Beris Tawar-Muda	Jeniang Beris Khlong Thepha	Jeniang Beris Reman Khlong Thepha	Jeniang Beris Reman Khlong Thepha Tawar-Muda	Jeniang Reman
Target deficit						
Kedah	399	399	399	399	399	399
Muda	29	29	29	29	29	29
Net Water Output						
Jeniang	185	185	185	185	185	185
Beris	66	66	66	66	66	
Reman	97			97	97	114
Tawar-Muda		23			3	
Khlong Thepha	· .		43	30	30	
Remaining Deficit			· · · · · · · · · · · · · · · · · · ·			
Kedah	77	151	130	47	44	126
Muda	3	3	3	3	3	3

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69 NET WATER OUTPUT OF COMBINATIONS FOR CASE 2 IN 2000 (Intermediate)

Unit:	105	m ³

			Combinat	ions	
	(e)	(f)	(g)	(h)	(i)
Source facilities	Jeniang Beris Reman	Jeniang Beris Tawar Muda	Jeniang Beris Khlong Thepha	Jeniang Beris Reman Khlong Thepha	Jeniang Beris Reman Khlong Thepha Tawar Muda
Target deficit					
Kedah	399	399	399	399	399
Muda	29	29	29	29	29
Net Water Output					
Jeniang Beris	187 65	1910 - A.			
Reman	83				
Tawar Muda Khlong Thepha					
Remaining deficit					
Kedah	74				
Muda	19	·		· · · ·	
	1. 19				
n da an an taon 1 An an Anna an Anna Anna Anna Anna Anna					

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Table 70	NET WATER	OUTPUT OF CO	OMBINATIONS	FOR
	CASE 3 IN	2000 (Kedah	Priority)	

					1997 - 1997 -	Unit: 10 ⁶ m	¹ 3
			Com	binations	ц		•.
	(e)	(f)	(g)		(h)	(i)	
Source	Beris	Jeniang Beris	Jeniang Beris	Jenian Beris Reman		Jeniang Beris Reman Khlong Theph	ıa
facilities	Reman	Tawar Muda	Khlong The	epha Khlong	J Thepha	Tawar Muda	
Target deficit	an a	1. 1. s.					
Kedah	399	399	399	9 1	99	399	1
Muda	29	29	29		29	29	
Net Water Output			- - -				- 1. -
Jeniang	187	187	187	1	87	187	
Beris	66	66	66		66	66	
Reman	83				83	83	
Tawar Muda		19			1. 1.	3	
Khlong Thepha		· · · · · · · · · · · · · · · · · · ·	26		30	30	
Remaining deficit							
Kedah	65	129	122		35	32	
Muda	27	27	27		27	27	•

Description	1983	1990	2000
edah river system		**************************************	· · · · · · · · · · · · · · · · · · ·
Tributary	32	41	67
MADA main	1,309	1,278	1,243
Main minor	±7303	1/2/0	1,245
fringe	23	21	21
main stream	0	1	6
D&I	33	55	137
Total	1,397	1,396	1,474
uda-Perai river system	an a		
Tributary	49	85	136
Main minor			
Kedah	58	97	98
Pulau Pinang	300 (212) 261 (185)	261 (185)
D&I		(1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,	
Kedah	10	21	59
Pulau Pinang	141 (37)	191 (41)	333 (153)
Total	558	655	887
Grand Total For Case B Irrigation an	1,955 ad Revised D&	2,051 I Water Demands	2,361
Grand Total For Case B Irrigation an Description	1,955	2,051	
Grand Total For Case B Irrigation an Description edah river system	1,955 ad Revised D& 1983	2,051 I Water Demands 1990	2,361 2000
Grand Total For Case B Irrigation an Description edah river system Tributary	1,955 nd Revised D& 1983 32	2,051 <u>I Water Demands</u> <u>1990</u> 32	2,361 2000 33
Grand Total For Case B Irrigation an Description edah river system Tributary MADA main	1,955 ad Revised D& 1983	2,051 I Water Demands 1990	2,361 2000
Grand Total For Case B Irrigation an Description edah river system Tributary MADA main Main minor	1,955 ad Revised D& 1983 32 1,309	2,051 <u>I Water Demands</u> <u>1990</u> 32 1,278	2,361 2000 33 1,243
Grand Total For Case B Irrigation an Description edah river system Tributary MADA main Main minor fringe	1,955 ad Revised D& 1983 32 1,309 23	2,051 <u>I Water Demands</u> 1990 32 1,278 21	2,361 2000 33 1,243 21
Grand Total For Case B Irrigation an Description edah river system Tributary MADA main Main minor fringe main stream	1,955 ad Revised D& 1983 32 1,309 23 0	2,051 <u>I Water Demands</u> 1990 32 1,278 21 0	2,361 2000 33 1,243 21 0
Grand Total For Case B Irrigation an Description edah river system Tributary MADA main Main minor fringe main stream D & I	1,955 ad Revised D& 1983 32 1,309 23 0 33	2,051 <u>I Water Demands</u> <u>1990</u> 32 1,278 21 0 55	2,361 2000 33 1,243 21 0 137
Grand Total For Case B Irrigation an Description edah river system Tributary MADA main Main minor fringe main stream	1,955 ad Revised D& 1983 32 1,309 23 0	2,051 <u>I Water Demands</u> 1990 32 1,278 21 0	2,361 2000 33 1,243 21 0
Grand Total For Case B Irrigation an Description edah river system Tributary MADA main Main minor fringe main stream D & I Total	1,955 ad Revised D& 1983 32 1,309 23 0 33	2,051 <u>I Water Demands</u> <u>1990</u> 32 1,278 21 0 55	2,361 2000 33 1,243 21 0 137
Grand Total For Case B Irrigation an Description edah river system Tributary MADA main Main minor fringe main stream D & I Total uda-Perai river system	1,955 ad Revised D& 1983 32 1,309 23 0 33	2,051 <u>I Water Demands</u> <u>1990</u> 32 1,278 21 0 55	2,361 2000 33 1,243 21 0 137
Grand Total For Case B Irrigation an Description edah river system Tributary MADA main Main minor fringe main stream D & I Total uda-Perai river system Tributary	1,955 ad Revised D& 1983 32 1,309 23 0 33 1,397	2,051 <u>I Water Demands</u> 1990 32 1,278 21 0 55 1,386	2,361 2000 33 1,243 21 0 137 1,434
Grand Total For Case B Irrigation an Description edah river system Tributary MADA main Main minor fringe main stream D & I Total uda-Perai river system Tributary Main minor	1,955 ad Revised D& 1983 32 1,309 23 0 33 1,397	2,051 <u>I Water Demands</u> 1990 32 1,278 21 0 55 1,386	2,361 2000 33 1,243 21 0 137 1,434
Grand Total For Case B Irrigation an Description edah river system Tributary MADA main Main minor fringe main stream D & I Total uda-Perai river system Tributary Main minor Kedah	1,955 ad Revised D & 1983 32 1,309 23 0 33 1,397 49	2,051 <u>I Water Demands</u> <u>1990</u> 32 1,278 21 0 55 1,386 50 58	2,361 2000 33 1,243 21 0 137 1,434 59 58
Grand Total For Case B Irrigation an Description edah river system Tributary MADA main Main minor fringe main stream D & I Total uda-Perai river system Tributary Main minor	1,955 ad Revised D & 1983 32 1,309 23 0 33 1,397 49 58	2,051 <u>I Water Demands</u> <u>1990</u> 32 1,278 21 0 55 1,386 50 58	2,361 2000 33 1,243 21 0 137 1,434 59 58
Grand Total For Case B Irrigation an Description edah river system Tributary MADA main Main minor fringe main stream D & I Total uda-Perai river system Tributary Main minor Kedah Pulau Pinang	1,955 ad Revised D & 1983 32 1,309 23 0 33 1,397 49 58	2,051 <u>I Water Demands</u> <u>1990</u> 32 1,278 21 0 55 1,386 50 58	2,361 2000 33 1,243 21 0 137 1,434 59 58
Grand Total For Case B Irrigation an Description edah river system Tributary MADA main Main minor fringe main stream D & I Total uda-Perai river system Tributary Main minor Kedah Pulau Pinang D & I	1,955 ad Revised D & 1983 32 1,309 23 0 33 1,397 49 58 300 (212	2,051 <u>I Water Demands</u> <u>1990</u> <u>32</u> 1,278 <u>21</u> 0 55 1,386 50 58 261 (185)	2,361 2000 33 1,243 21 0 137 1,434 59 58 261 (185)

Table 71 REVISED ANNUAL WATER DEMAND

Remark: Figures between parentheses show the withdrawals from the Muda river.

MONTHLY WATER DEFICIT FOR KEDAH RIVER BASIN Table 72 WITHOUT NEW MINOR IRRIGATION FOR 1990

Unit: 10) ⁶ m ³
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FAR	JAN	FER	MAR	APR	MÁY	JU¥	JÜL	AUG	SEP	001	NOV	330	ANNUA
1961	0.	175.6	246.8	111.5	101.2	161 1	175.3	131.2	52.3	ò.	21,0	34.8	1210.
962	ŏ.	196.2	321.2	151.0	59.8	175.9	63.8	95.1	0.	2.6	38.9	69.1	1153.5
963	ō.	214.5	330.6	245.1	145.9	153.4	190.1	141.6	27.4	0.	2 2	22.0	1472.
964	6.6	215.6	328.5	207.3	65.3	177.7	77.7	128.40	9.3	4.0	0	25.3	1245.
965	3 2	186.7	287 8	125.8	152.5	133.0	165.9	97.5	4.5	0.	12.9	0.	1169.
966	0.	145.9	237.9	182.0	54.6	78,2	92.2	\$11.7	. 44.0	0.	0.	0.	946.
967	0	146.4	345.9	110.5	10.4	109.1	42.8	70.6	34.4	0.	6.7	0.	876.
968	Ô,	191.5	314.1	101.6	41.6	103.4	69.6	128.6	4.7	· 0.	10.5	3.2	970.
969	0.	171.6	305.6	210.5	79.6	93.6	98.4	129.5	0.	0.	· O.	о.	1088.
970	ò.	182.9	302.5	182.3	81.1	100.4	87.8	47.4	17.6	0.	0.	0.	1002.
971	ō.	138.7	148.0	273.7	55.2	77.0	87.3	92.0	16.4	0.	0	0.	888.
972	Ο.	139.0	297.0	97.1	49.2	135.0	195.8	97.1	19.0	0.	. 0.	0.	1029.
973	0.	169.5	319.1	86.4	25.9	52,9	109.5	69.4	0.	0.	9.2	0.	841.
974	õ.	181.6	316.1	222.1	0	98.2	125.0	87.2	22.6	0.	18.7	3.9	1075.
975	0.	172.9	267.0	184.8	26.1	123.3	\$71.5	46.0	21.7	0.	15.8	Ο.	1029.
976	Ŭ,	174.0	274.1	172.4	3.8	143.4	85.0	101.8	· 0.	0.	· C,	0.	974.
977	Ŭ.	170.3	358.8	261.6	74.9	84.4	148.3	102.1	3.1	0.	27.5	21.6	1252,
978	0	184.1	346.7	173.2	87,1	112.9	30,2	57.8	0.7	. 0.	18,3	11.8	1022.
979	0.	198.3	350.5	114.9	108.6	71.2	110.6	114.0	0.	0.	0.	3.0	1073,
980	ö.	205.1	319.8	100.0	127.9	88.4	181.7	33.1	0.	0,	0.	Ð	1056.
981	0	179.2	306.4	142.5	49.2	121.2	120.6	170.7	40.4	13.8	. 18.5	31.5	1194.
982	0	185.8	287.2	116.8	46.1	73.9	30.6	131.0	· 0.	0.	1.6	7.2	880,
983	ö.	193.3	305.3	298.2	78.7	78.1	108.9	26.5	Ó,	Ö.	18.4	Q.	1107.
EAN	0.4	179,1	301,6	168.5	66.3	110.7	111.7	96.1	13.8	0.9	9.6	9.3	1068.

Table 73

MONTHLY WATER DEFICIT FOR KEDAH RIVER BASIN WITHOUT NEW MINOR IRRIGATION FOR 2000

106 m³ Unit:

								1					
YEAR	JAN	FEÐ	NAR	APR	, NAY	1 0N	101	AUG	SEP	061	NON	DEC	ANNUAL
1961	0.1	190.5	259.7	104.8	111.7	165.3	162.7	109.9	56,0	0.	22.5	38.2	1221.4
1962	0.5	212.6	328.8	160.6	59.8	15225	9~29	. 85.3	0.9	3.5	40.0	57.4	1185.9
1963	7.0	233,3	337.4	269.3	131.2	165.6	194.1	145.2	32.2	0.	0.	24.4	1539.7
1964	18.3	236.3	355.2	206.6	68.7	191.9	65.3	126.7	8.8	4.9	0.	31.0	1311.6
1985	14.7	204.2	304,3	128,3	162.9	127.2	136.4	102,6	4.5	Ο.	10.4	0.	1195.5
1965	θ.	156.5	2.8.7	196.9	36.3	80.4	93.7	109.6	16.4	6.	0.	0.	. 938.4
1967	0.	157.9	362.9	126.8	11.9	116.1	37.6	67.8	0.1	0.	7.0	Ο.	588.1
1968	Ó.	205.5	331.0	90.3	53.5	110.9	73.8	123.3	0.4	Ο.	6.4	3.7	998.9
1969	0.	185.3	296.8	225.0	78.4	95.1	99.3	129,1	0.	0.	Ο.	0.	1109.1
1970	0.	197.0	323.6	191.8	71.8	85.7	71.5	36.4	17.8	D.	Ð.	Ū.	993.3
1971	0.	151.2	159 1	278.8	50.3	84.7	93.3	87.2	22.9	Ò.	0.	0.	927.6
1972	0.	151.4	315.4	103.7	56.8	134,1	196.8	83.8	19.4	0.	٥.	0.	1061.4
1973	ō.	183.2	335.7	81.1	9.2	54.6	109.6	38.6	0.	0.	9.4	0.0	821.4
1974	Ū.	195.9	332.9	235.6	0	107.9	124.8	50.9	23.4	0.	19.1	5.0	1095.6
1975	· 0.	185.1	280.9	174.3	28.2	124.2	166.7	37.8	22.1	Ο.	10.2	0.	1029.0
1976	ŏ.	187.9	310.9	189.7	5.4	152.8	82.7	93.2	0.3	0.	0.	0.	1022.8
1977	0 .	183.5	377.6	288.1	65.0	103.8	156.4	101.0	4.0	0.	28.3	25.5	1333.2
1978	0.	200.6	368.9	167.7	82.8	110.6	.28.8	58,4	1.6	0.	19:6	13+4	1052.4
1979	0.	215.4	372.3	125.0	105.2	78.3	112.1	93.5	0.	0.	0.	1.3	1103.0
1980	Ū.	218.3	323.7	105.0	137.8	101.9	176.4	24.9	0.	0.	0.	0.	1087.9
1981	0.	193.3	325 2	155.3	55.8	132.9	118.6	165.0	67.3	14,9	15.1	37.0	1280.5
1982	4.2	203.3	301.8	121.8	50.6	74.0	30.6	133,7	٥.	0	2.2	7.8	930.0
1983	0.	208.9	323.3	318.9.	85.9	84.9	89.0	26,3	0.	0,	18.8	0	1155.9
MEAN	1.9	193.7	316.4	175.9	66.1	115.5	107.9	88.3	13.0	1.0	9.1	10.6	1099.4

MONTHLY WATER DEFICIT FOR MUDA RIVER BASIN FOR 1990 (REVISED D&I AND WITH NEW MINOR IRRIGATION)

Unit	•	10^{6}	m3
UNLL	:	10.	111 -

YEAR	JAN	ftB	NAR .	APR	MAY	JUN	JUL	AUG	SEP	001	ноу	DEC	ANNUA
1961	0.	0.	с.	0.	0.	0.	Ű.	0.	0,	0.	0.	0.	ŭ.
1962	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0	0.	0.
1963	0.	0.	1.9	0.	Ο,	0.	ο.	Ο,	0.	0.	0.	0.	1.9
1964	<u>o</u> .	0.	4+8	0.	0.	0.	0,	0.	0.	0.	ò.	Ö,	4.8
1965	ο.	0.	3.1	0.	0,	0.	0.	0.	Ο,	0.	Û.	0.	3 1
1966	0.	0.	0.	ο.	0.	0.	θ.	0.	0.	0.	0.	0.	.0.
1967	0,	0.	0.	0.	Ο.	0.	0.	Ū.	0,	0,	0.	ō.	0.
1968	0	۵.	16.5	16.1	5.0	16.0	0,	0	0.	0.	0.	0.	51.3
1969.	0.	ο.	0.	0.	ο.	0.	С,	0.	0.	0.	0.	0.	0
1970	0 .	Ο.	0.	.0,	0,	Ο.	0,	0,	0.	Ω.	D.	0.	0.
1971	0.	Ο,	Ο.	0.	ο.	0,	ο,	0.	0.	0,	0.	. Ū	ō,
1972	0.	0.	2.0	٥.	0.	٥.	0.	0.	0.	0	0.	0.	2.0
1973	0	0.	0.	Ο.	ο.	• 0.	Ο.	0.	0.	0.	0.	0.	0.
1974 .	0.	0.	1.5	0.	Ο.	ο,	Ο,	0,	0.	ο.	0.	ο,	1.5
1975	D	0.	Ο.	Ο.	Ο.	0,	ο.	Ο,	0.	0,	0.	0.	0.
1976	0.	0.	0.	2.4	ο.	. 0.	Ο, ΄΄	0	0.	0	0.	0.	2.4
1977	0,	0.	20.8	23.2	5*1	0.6	1.2	Ο.	0.	0.	÷ 0.	Ο.	47.9
1978	0.	Ο, ΄	12.9	2.1	0.	0.	0.	θ,	0.	ο,	0.	0.	15.0
1979	0.	0.	28.5	7.2	0.	0.	0.7	0.	0.	0,	0.	0.	36.3
1980	D.	ο.	13.0	6.1	ο.	ο.	0.	в.	0.	ũ,	σ.	0,	19.1
1981	0.	0.	17.0	0.	0.	.0.	Ο.	0.	0.	0	0.	0.	17.0
1982	0.	0.	26.6	5.8	0	· 0.	0.	0	0	ο,	θ.	0.	32.4
1983	0.	D.	19.7	28.3	0.	0,	0.	0	0,	0.	0,	0.	48.0
HEAN	6.	0	7.3	4.0	0,2	0.7	0.1	0,	0.	0.	0.	0.	12.3

Table 75MONTHLY WATER DEFICIT FOR MUDA RIVER BASIN FOR 2000
(REVISED D&I AND WITH NEW MINOR IRRIGATION)

Unit: 10^6 m^3

	÷1.												
YEAR	JAN	FEB	MAR	APR	HAY	JUN	JUL	AUG	\$EP	001	NOA	934	ANNUAL
1961	0.	0.	0,	0.	0.	0.	0.	0	0.	0.	0.	Û.	0.
1962	· O.	0.	Û.	0.	0.	0.	0.	Ο,	0.	в.	0.	· 0.	0.
1963	0.	0.	5.8	2.5	Ο.	0,	0.	ο.	0.	0.	0.	0.	8.2
1964	0.	0.	10,9	1.7	0.	٥.	0.	Ο,	0.	0.	0.	Q,	12.6
1965	Ο.	0.	9.7	0.	0	ο.	0.	ο.	0.	0.	Ο.	ο.	9.7
1966	0.	0.	Ο,	. D .	D.	ο,	D.	6.	С.	0.	0,	0.	0,
1967	0.	0.	Ο,	0.	0.	θ.	0.	Ο.	0.	Q.	0.	0.	0.
1968	0.	0.	24.0	22.7	7.6	36.3	0.	0.	0.	0.	0.	0.	90.6
1969	0.	0.	0.	0.	0.	٥.	0.	٥.	0.	0.	0.	0.	0.
1970	0.	0.	1.5	0.	Ο,	Q.	0.	0.	0.	Q.	o,	0.	1.5
1971	0.	0.	0.	. O.	0.	1.0	D.	0.	0.	0.	0.	- 0.	1.0
1972	0.	0.	6.1	٥.	0	0,	υ.	Ο.	0.	0.	0.	0.	6.1
1973.	θ.	0.	÷ 0.	0.	0,	0.	0.	0.	0.	0.	σ.	6.	0.
1974-	· 0,	0.	5.3	0.2	0.	0.	0.	0.	0.	0.	0.	0.	5,5
1975	0,	0.	0	0.	0.	0.	0.	0.	0.	0.	0.	<u>0</u> .	0.
1976	Ο.	0.	0	5.7	σ.	a.	Ű.	<u>o</u> .	<i>o</i> .	8.	ο.	0.	5.7
1977	0.	ο.	29.7	34.7	10.4	4.6	14.7	0.	0.	0.	0.	0.	94,1
1978	0	. D.	21.4	4.3	0	-0.	.0.	0.	0.	0.	0.	0.	25.6
1979	0.	0.	42.6	16.8	0.	0.	6.0	0.	0.	0.	0 .	D.	65.4
1980	0. · ·	ο.	25.1	10.1	0.	0.	0.6	0.	. 0.	0.	0.	0.	35.9
1981	0.	0.	24.5	0.	0,	0.	0.	0.	0.	0.	0.	0.	24.5
1982	0.	0.6	49.3	13.8	0 .	Q	Q.	e.	0.	· 0.	ů. ů.	0. 0.	63.6 72.1
1983	٥.	0.	27.9	44.0	0.	0.3	0.	0.	0.	Ð.		V.	FC97 4004644#
MEAH	0.	D,0	12,2	6,8	0.8	1.8	0.9	0.	0.	0.	Û.	ο.	22.6

MONTHLY WATER DEFICIT FOR MUDA RIVER BASIN FOR 1990 (REVISED D&I AND WITHOUT NEW MINOR IRRIGATION)

Unit: 10^6 m^3

YEAR	JAN	FEB	MAR	APR	8.8Y	JUN	101	AUG	SEP	7 J Q	NOV	DEC	ANNUAL
1961	0.	0.	0.	0.	0,	0.	0.	D.	0.	0.	0.	<u>o</u> .	0.
1962	ŏ.	0.	0.	0	0.	۵.	0.	0.	0.	0.	0.	0	0.
1963	0	0.	0.	0	· O .	Ο.	Ο.	0.	0.	0.	0.	0.	0.
1964	ō.	0.	0.1	0	0.	0.	0.	0.	Q.	0.	0.	0.	0.j
1965	Ū.	0.	0.5	0	с.	٥.	0	.0.	0.	Q.	0.	0.	0.5
1966	0.	0.	0.	Ο.	0.	0.	Ο.	0,	Ο.	0.	0.	0	0.
1967	0.	0.	0.	0.	0.	0.	0	0.	Q.	0.	ō.	្តុំ	.0.
1968	0.	Ο.	8.1	8.6	0.5	8,7	0	0.	0.	0.	0.	0.	25.9
1969	0.	Û.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1970	0.	0.	0,	Ο.	0.	0.	0.	0.	0.	0.	0.	0.	0.
1971	ΰ.	0.	0.	υ.	в.	ο.	0.	Q.	0,	0.	o.	0.	Q.
1972	. 0.	0.	0.	0.	0.	0,	0.	0.	0.	0.	0.	0.	0.
1973	0.	0.	C.	0.	0.	0.	0.	0.	0.	0.	0.	0	. 0.
1974	0.	0.	0.	0.	0.	. 0.	0.	0.	Θ.	0.	0.	0.	Ū.
1975	0.	ο.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	Û.
1976	0	0.	0,	0.	0.	0.	0.	Ö.	0.	ο.	.0	0.	0.
1977 -	ΰ.	υ.	12,8	16.6	0.4	С.	с,	с.	σ.	0.	0.	<u>a</u> ,	50.8
1978	Ο.	0.	6.2	0.6	0.	0.	0.	0.	0.	0.	0.	<u>0</u> .	6.8
1979	0.	0.	21,5	4.9	0.	Ο,	0	0.	0.	0.	·0.	0.	26.5
1980	0	Ο.	6.4	3.3	0.	0.	0.	0.	. 0.	0.	0.	0.	9.7
1981	0.	0.	9,8	0.	0.	0.	0.	0.	0,	0.	0.	0	9,8
1982	0.	0.	18.9	4.3	0.	0.	0	0.	0.	0.	Q.	Q.	23.2
1983	0.	0.	11.9	21.1	0.	6.	0.	6.	0.	0.	0.	0.	32.9
/ Hean	.0.	0,	4,2	2.6	0.0	0.4	0	Ο,	٥.	0.	0.	0.	7.2

MONTHLY WATER DEFICIT FOR MUDA RIVER BASIN FOR 2000 (REVISED D&I AND WITHOUT NEW MINOR IRRIGATION)

Table 77

Table 76

Unit: 10⁶ m³

										· .			· .
YEAR	JAN	FED	777 777	APR	MAY	JUH	JUL	AU6	SEP	067	NOV	9EC	ANNUA
1961	0.	Δ.	0.	0.	Ο.	0.	0.	.0.	0.	0.	0.	Q.	0.
1962	0.	0.	0	0.	ο.	0.	.0.	0.	0.	0.	0.	0.	0.
1963	0.	0.	· 0 s	0.	0.	0.	0.	0.	0.	0.	Ó.	0.	0.
1964	0.	0.	2.6	0.	0.	. 0.	0.	0.	0.	0.	0.	0	2.6
1965	ΰ.	Ð,	1.9	0.	0.	0.	ΰ.	о.	8.	. 0.	0.	0.	1,9
1966	0.	ρ.	0.	0.	0.	Ο.	0.	·0.	0.	0.	0.	٥.	0.
1967	0.	Ο.	0,	0.	0.	0.	0.	0,	0	0.	0.	0	0.
1968	0.	ρ,	12.0	11.2	1.4	19.2	0.	0.	0.	0.	Ο.	0.	43.0
1969	0.	0.	0.	ο.	Û.	0.	0.	0.	Ũ.	Ο.	0.	0.	Ο.
1970	Ο.	Ο.	0.	0.	0.	Ο, ΄	0.	0.	0	0.	0.	0.	0.
1971	0	D.	D.	D	D.	0.	Ð.	0.	ο.	ο,	ο.	G.	. 0.
1972	0.	0.	0.	0,	0.	Ο.	0.	ο.	0.	0.	ċ.	0.	0.
1973	õ.	ŏ.	ŏ.	Ő.	Ö.	0.	0.	0.	0.	0.	0.	0.	0.
1974	0	Ď.	0.	Ő.	0 .	0.	Ö.	0.	0	0.	0.	0.	0.
1975	Ó.	Ű.	0,	0	ō.	0.	0.	0.	0.	0.	0.	0.	. D.
1976	0.	õ.	Ŭ.	ĭ.2	ŏ.	0.	0.	ō.	Â.	0.	0.	0.	1.2
1977	ŏ.	0	18.4	23.7	3.4	0,6	5.1	0	0	0.	Ο.	6.	50.5
1978	0	ů.	9.6	1.8	0.	0	D.	0.	0	0,	0.	0.	11.4
1979	Ď.	ō.	32.7	11.0	0.	õ.	0.9	ō.	Ū.	ō.	0.	Ö.	44.5
1980	Ő.	ŏ.	10.9	5.9	ŏ.	Ō.	Ö,	Õ,	Ŭ.	0.	0.	0.	16.8
1981	ŏ	Ő.	13.4	0.	0	0.	0	0.	0	0.	0.	0.	13.4
1982	0	0.5	34.0	8.8	0.	0.	Û,	ŏ.	0.	ö.	0	ŏ.	43,3
1983	Ő.	Ŭ.	16.9	32.4	ŏ.	Ũ.	Ũ.	0.	Ŭ.	ΰ.	Ū.	. 6 .	49.3
		64 44											
MEAN	0.	0.0	6.0	4.1	0.2	0.9	0.3	0.	0.	0,	0.	0.	12.1

.

WATER DEFICIT IN MINOR IRRIGATION SCHEMES IN THE MUDA MAIN STREAM FOR CASE A IRRIGATION DEMAND

			Alternativ	ves
· · · · · · · · · · · · · · · · · · ·	No Project	1	2	3
1983				
Frequency	8/23	·		·····
Average annual deficit Demand	3%			
Monthly maximum deficit Demand	65%			
1990	and the second sec	:		
Frequency	14/23	1/23	7/23	14/23
Average annual deficit Demand	4%	nil	0.3%	48
Monthly maximum deficit Demand	65%	nil	10%	65%
2000			Т	
Frequency	16/23	1/23	8/23	17/23
Average annual deficit Demand	8%	nil	1%	8%
Monthly maximum deficit Demand	90%	nil	30%	90%

Table 79WATER DEFICIT IN MINOR IRRIGATION SCHEMES INTHE MUDA MAIN STREAM FOR CASE B IRRIGATION DEMAND

		. i	Alternatives					
	No Project	1	2	3				
1983								
Frequency	8/23		·					
Average annual deficit Demand	3%							
Monthly maximum deficit Demand	65%							
1990								
Frequency	10/23	1/23	6/23	10/23				
Average annual deficit Demand	3%	nil	0.4%	2%				
Monthly maximum deficit Demand	60%	nil	15%	50%				
2000								
Frequency	11/23	1/23	7/23	11/23				
Average annual deficit Demand	5%	nil] %	4%				
Monthly maximum deficit Demand	90%	nil	30%	75%				

POSSIBLE OFF-SEASON CROP AREA IN THE MADA AREA FOR CASE A Table 80

			Average Crop Ar	ea	
Source facilities	1983	· · • · · · · · · · · · · · · · · · · ·	1990		2000
	(%) (ha)	(%)	(ha)	(%)	(ha)
Pedu + Muda	54 23,800		•	· · ·	
+ Ahning		60	94,000	56	53,200
+ Jeniang		80 - 82	76,100 - 78,000	72 - 77	68,500 - 73,200
+ Beris		88	83,700	80 - 84	76,100 - 80,000
+ Reman		97	92,200	90 ~ 92	85,600 - 87,500
+ K. Thepha		100	95,100	93	88,400
+ Merbok		100	95,100	96	91,300

Remarks	;

1)	Frequency of deficit year	:	5/23
2)	Proportion of annual deficit to demand for 23-year average	÷.	1%
3)	Maximum monthly water deficit to the water demand of the planted area	:	20%

Table 81 POSSIBLE OFF-SEASON CROP AREA IN THE MADA AREA FOR CASE B

			Pi	coportion of Crop	Area	
Source facilit:	ies	1983		1990		2000
	(%) (ha)	(%)	(ha)	(%)	(ha)
Pedu + Muda	54	51,300		a da serie de la companya de la comp	· ·	
+ Ahning			61	58,000	60	57,000
+ Jeniang			81 - 83	77,000 - 78,900	77 - 80	73,200 - 76,100
+ Beris			89	84,600	85 - 88	80,800 - 83,700
+ Reman			98	93,200	94	89,400
+ K. Thepha			100	95,100	96	91,300
+ Merbok	·		100	95,100	99	94,100

11	÷			- ÷	main	7	-
		1	19.00	1.1	1.114.4	1.1	1

18

20%

Domo	rlea	1
Rema	LKS	

1) Frequency of deficit year 5/23 : 2) Proportion of annual deficit to

demand for 23-year average :

3) Maximum monthly water deficit to the water demand of the planted area •

$\frac{\partial g}{\partial t} = \frac{\partial g}{\partial t} + $	 Kedah	990 Muda	20 Kedah	00 Muda
	,neuan	piùùa	Kedan	Place
lternative l				
Target Deficit	358	12	399	23
Jeniang	182		185	
Beris	53	12	43	23
Reman	89		97	• • •
K. Thepha	28		30	<u> </u>
Remaining Deficit	6	0	42	0
lternative 2		:	$(1,1) \in \mathbb{R}^{d}$	•.
Target Deficit	358	12	399	23
Jeniang	182	· · · ·	185	e e
Beris	54	11	46	20
Reman	89		97	· ·
K. Thepha	28	· ·	30	
Remaining Deficit	5	1	- 41	3
lternative 3				
Target Deficit	358	12	399	23
	182		187	
Jeniang	62		66	
Beris	83		83	
Reman	26		26	
K. Thepha	·		· · · · · · · · · · · · · · · · · · ·	
Remaining Deficit	5	12	37	23
Merbok		12		23
Remaining Deficit	5	0	37	C

Table 82 NET WATER OUTPUT AND REMAINING DEFICIT FOR CASE A

•	1990	.	2000	
	Kedah	Muda		Muđa
ternative l	· .	•		
Target Deficit	354	7	384	12
Jeniang	182		185	
Beris	<u>5</u> 8	7	54	12
Reman	83	:	83	
K. Thepha	26	· · · ·	26	
Remaining Deficit	5	0	36	0
ternative 2	· .			1.5
Devet Deficit	354	7	384	12
Target Deficit	<u> </u>		<u> </u>	
Jeniang	59	6	57	. 9
Beris		0		. 9
Reman	83	۰.	83	
K. Thepha	26		26	
Remaining Deficit	4	1	33	3
		:		
ternative 3	· · ·			
Target Deficit	354	7	384	12
Jeniang	182		187	
Beris	62		66	·. ·
Reman	83	·. · ·	83	
K. Thepha	26		26	
Remaining Deficit	1	7	22	12
Merbok		7		12
Remaining Deficit	1	0	22	0

Table 83 NET WATER OUTPUT AND REMAINING DEFICIT FOR CASE B

Table 84AVERAGE ANNUAL WATER DEFICIT BY CAUSE BY AFFECTED AREA FOR
CASE A IRRIGATION AND REVISED D&I WATER DEMANDS

Unit: 10⁶ m³

÷.,	Kedah River System				Water Deficit Muda-Perai River System				
	Cause of	MADA	Main	er syst	<u>ein</u>		da-Perai Ri minor	ver Sy	stem
	Water Deficit	main	minor	DGI	Total	Kedah	P.Pinang	DEI	Total
983	Kedah System						,,, <u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>		
	MADA main	383.3	6.7	0	390				
	Main minor	6.9	0.1	0	7				
	Tributary minor	6.9	0.1	0	7	······	· · ·		
	D&I	4.9	0.1	0	5	1			
•	Total	402.0	7.0	0					
	Muda-Perai System								
	- Kedah: Main minor		11. 1	· · ·					ana Agina sa sa sa
÷				<u> </u>		0.2	0.8	0	1
	Tributary mine)r	·			0.2	0.8	. 0	1
	D&I					0	0	0	0
	. P.Pinang: Main minor					0.9	3.1	0	4
	D&I					0.2	0.8	0	1
	Total	· . ·		•		1.5	5.5	0	· · 7 ·
					·				
90	Kedah System	. *							
	MADA main	338.2	5.8	0	344	· .			
	Main minor	6.9	0.1	0	7				
	Tributary minor	6.9	0.1	0	7				
• •	D&I	0	0	0	0(+46)				
	Total	352.0	6.0	0	358 (404)				· ·
4.1	Muda-Perai System	a de estas A de astro			н ц. 19		· · · · ·		:
	. Kedah: Main minor					1.0	2.0	0	- 3
	Tributary mine	or				1.4	2.6	0	4
1	D&I					0.7	1.3	0	2
	. P.Pinang: Main minor	·····				1.0	2.0	0	3
	D&I					0	0	0	0 (+
	Total					4.1	7.9	0	12 (1
					1				÷
00	Kedah System	:	e i		tati an Line tati	÷.,			
	MADA main	332.8	7.2	0	340				·····
	Main minor	8.8	0.2	0	9				·····
	Tributary minor	19.6	0.4	0	20				
	DEI	15.7	0.3	0	16(+45)				
•	Maintenance flow	13.7	0.3	0	14				
	Total	390.6	8.4	0	399(444)		. <u> </u>		
	Muda-Perai System						9		
ана 1997 г.	. Kedah: Main minor		·			1.0	2.0	0	3
	Tributary mind	r		·		3.5	6.5	0	10
	D&I	:				0.7	1.3	0	2
	. P. Pinang: Main minor					1.0	2.0	0	3
1.	DSI			•	· · · · · · · · · · · · · · · · · · ·	1.7	3.3	0	5 (+1

Remark;

Figures between parentheses in row of D&I indicate supply from Ahning or Mengkuang dam, those in row of total indicate deficit if Ahning and Mengkuang dams are not operated.

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AVERAGE ANNUAL WATER DEFICIT BY CAUSE BY AFFECTED AREA FOR CASE B IRRIGATION AND REVISED D& I WATER DEMANDS

Unit: 10⁶ m³

		and the second sec	dah Riv	er Syst	iem		iver Sy	ystem	
	Cause of Water Deficit	MADA main	Main minor	D&I	Total	Main Kedah	minor P.Pinang	D&I	Total
 983 Ke	edah System								
	MADA main	383.3	6.7	0	390	× .	i -		
	Main minor	6.9	0.1	0	.7				
	Tributary minor	6.9	0.1	0	7				
	D&I	4.9	0.1	0	5				
	Total	402.0	7.0	0	409				
Mi	Ida-Perai System					1			
	. Kedah: Main minor	· · · ·	•			0.2	0.8	0	1
	Tributary mino	r :				0.2	0.8	0	1
	DSI					Ö	0	0	0
	P.Pinang: Main minor					0.9	3.1	0	4
	D&I				· · · · · · · · · · · · · · · · · · ·	0.2	0.8	0	1
	Total					1.5	5.5	0	7
 90 Ke	dah System								
	MADA main	334.5	5.5	0	340				
	Main minor	6.9	0.1	0	7				
	Tributary minor	6.9	0.1	0	7	1			·. ·
	D&I	0	0	0	0(+46)		.,		
	Total	348.3	5.7	0	354 (400)	<u>.</u>			
Mu	da-Perai System				· · · ·				
	Kedah: Main minor					0.2	0.8:	0	1
	Tributary mino	r				0.2	0,8	0	1
	D&I					0.5	1.5	0	2
_	P.Pinang: Main minor					0.7	2.3	0	3
-	DEI					0	0	0	0 (+4)
	Total				······································	1.6	5.4	0	7 (11)
00 Ke	dah System	· · · · ·							
	MADA main_	334.4	5.6	Ö	340				
	Main minor	6.9	0.1	0	7				· · · · · · · · · · · · · · · · · · ·
	Tributary minor	6.9	0.1	0	1			· · · · · · · · · · · · · · · · · · ·	
	D&I	15.7	0.3	0	16 (+45)			•••	
	Maintenance flow	13.8	0.2	. 0	14				<u>.</u>
,	Total	377.7	6.3	0	384 (429)			· · · · · · · · · · · · · · · · · · ·	
Mu	da-Perai System	· · · ·		· .					
	Kedah: Main minor	-			· .	0.2	_0.8	0	1111
	Tributary mino	r				0.2	0.8	0	1
	D&I		¥**********************			0.5	1.5	0	2
-	P.Pinang: Main minor	*****	·		••••••••••••••••••••••••••••••••••••••	0.7	2.3	0	3
	D&I		· · · ·			1.2	3.8	0	5 (+9)
	Total					2.8	9.2	0	<u> </u>

Remark;

Figures between parentheses in row of D&I indicate supply from Ahning or Mengkuang dam, those in row of total indicate deficit if Ahning and Mengkuang dams are not operated.

ALLOCATION OF NET WATER OUTPUT

Source Facility		Kedah Rive	210	Water Deficit Muda-Perai River		
bource ruerreg		Redail Kive		Muda-Perar River		
Jeniang/Naok		MADA	•			
Jenizang, naon	1	Minor				
		D&I				
		Maintenance :	flow			
		narmenance	LIOW	· · · · ·		
Beris		Tributary		Tributary		
DCLTD		MADA		Minor		
		Minor		D&I		
		D&T		Dat		
		Maintenance	Flow			
		riaintenance	LTOM			
Tawar-Muda		MADA				
Idwal -Piùua		Minor				
		D&I				
		Maintenance	flow			
		Maintenance	1100			
Khlong Thepha		MADA				
кптону тперна		Minor				
		D&I Maintenance	flow			
		Maintenance	LIOW			
• • • •				Tributary		
Merbok	:			Minor		
				D&I		
Remarks;	MADA	= MADA irrigat	10n			
1		= Minor irriga				
		= Minor irriga		tributary		
		= D&I water su				
. *	Maintenance	= River mainte	nance fl	ow only tor		
	flow	High Grow	th Caco			

NET WATER OUTPUT OF SOURCE FACILITIES Table 87 BY CAUSE OF WATER DEFICIT (ALTERNATIVE 1, MUDA PRIORITY) (1/6)

Unit: 10^6 m^3

Cause of	Jeniar	ng System	Beris			
Nater Deficit	Case I		Case A	Case E		
1990		1. 1.				
Kedah System	•	· .				
MADA	178.4	178.3	45.1	50.0		
Main minor	3.6	3.7	0.9	1.0		
Tributary minor			7.0	7.0		
D & I						
Sub-total	182.0	182.0	53.0	58.0		
			· · ·			
Muda-Perai						
Kedah						
			2.0	1.0		
Main minor	· · ·		3.0 4.0	1.0		
Tributary minor D&I	÷ (2.0	2.0		
	:					
Pulau Pinang		:				
Main minor	· .	· · ·	3.0 0.0	3.0 . 0.0		
Sub-total			12.0	7.0		
Total	182.0	182.0	65.0	65.0		
		i i i i i i i i i i i i i i i i i i i	на. 12			
2000						
Kedah System	•					
MADA	166.0	166.8	20.6	42.4		
Main minor	4.4	3.4	0.6	0.9		
Tributary minor		1	20.0	7.0		
D&I	7.8	7.9	1.0	2.0		
Maintenance flow	6.8	6.9	0.8	1.7		
Sub-total	185.0	185.0	43.0	54.0		
Muda-Perai System						
	1			-		
Kedah	14					
Main minor	:		3.0	1.0		
Tributary minor D&I		•	10.0 2.0	1.0 2.0		
Pulau Pinang	· · · ·		<i>4</i> .0	<u> </u>		
			2.0			
Main minor D&I			3.0 5.0	3.0 5.0		
Sub-total			23.0	12.0		
Total	185.0	185.0	66.0	66.0		
10(41		1 · · · · · · · · · · · · · · · · · · ·	00.V	00.0		
	F-10	0				

NET WATER OUTPUT OF SOURCE FACILITIES BY CAUSE OF WATER DEFICIT (ALTERNATIVE 2, EVEN DISTRIBUTION) (2/6)

Unit: 10⁶ m³

Cause of	Jeniang	System	Beris		
later Deficit	Case A	Case B	Case A	Case 1	
990					
Kedah System				. •	
MADA	178.4	178.4	46.1	51.0	
Main minor	3.6	3.6	0.9	1.0	
Tributary minor			7.0	. 7.0	
D & I			·		
Sub-total	182.0	182.0	54.0	59.0	
Auda-Perai System					
	•			÷ .	
Kedah		· .			
Main minor			2.5	0.8	
Tributary minor			4.0	1.0	
D&I			2.0	2.0	
Pulau Pinang					
Main minor			2.5	2.2	
D&I		·	2.0	0.0	
Sub-total			11.0	6.0	
	102.0	102.0	65.0	65.0	
Total	182.0	182.0	0.00	05.0	
2000					
Kedah System					
MADA	166.0	166.8	23.3	45.1	
Main minor	4.4	3.4	0.6	0.9	
Tributary minor	0.0	0.0	20.0	7.0	
D&I	7.8	7.9	1.0	2.1	
Maintenance flow	6.8	6.9	1.0	1.9	
Sub-total	185.0	185.0	46.0	57.0	
Auda-Perai System	14 - L				
Kedah				÷	
			1.5	0.2	
Main minor			10.0	1.0	
Tributary minor			2.0	2.0	
D&I			2.0		
Pulau Pinang					
Main minor			1.5	0.8	
D&I	· · · ·		5.0	5.0	
Sub-total	· .		20.0	9.0	
·····	185.0	185.0	66.0	66.0	

9 NET WATER OUTPUT OF SOURCE FACILITIES BY CAUSE OF WATER DEFICIT (ALTERNATIVE 3, KEDAH PRIORITY) (3/6)

· · ·				Unit: 10^6 m^3
		Jeniang	Cricton	Beris
Cause of Nater Deficit		Case A	Case B	Case A Case B
1990				
Kedah System				
MADA		178.4	178.3	53.9 53.9
Main minor		3.6	3.6	1.1 1.1
Tributary minor		.*		7.0 7.0 0.0
D&I		100.0	102.0	
Sub-total	÷ .	182.0	182.0	62.0 62.0
Muda-Perai System				
		1		
Kedah				
Main minor				
Tributary minor				
D&I				
Pulau Pinang				
Main minor		· .		
D&I	•			
Sub-total		<u> </u>		0.0 0.0
Total		182.0	182.0	62.0 62.0
2000		:		
Kedah System				
MADA	н. 	167.8	168.7	41.3 53.2
Main minor		4.4	3.5	1.1 1.1
Tributary minor		0.0	0.0	20.0 7.0
D&I		7.9	7.9	1.9 2.5
Maintenance flow		6.9	6.9	1.7 2.2
Sub-total		187.0	187.0	66.0 66.0
Mudn-Doroj Custom				
Muda-Perai System			· . ·	
Kedah	·			
Main minor				
Tributary minor D&I			· .	
			- -	
Pulau Pinang			· · · ·	
Main minor				
D&I		······		
Sub-total				0.0 0.0
Total		107 0	107 0	66.0 66.0
		187.0	187.0	60.0 00.0

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NET WATER OUTPUT OF SOURCE FACILITIES BY CAUSE OF WATER DEFICIT (ALTERNATIVE 1, MUDA PRIORITY) (4/6)

Unit: 10^6 m^3

Cause of	Reman		Tawar-N		Khlo Ther	ha	Merbok		
Water Deficit	Case A	Case B	Case A	Case B	Case A	Case B	Case A	Case E	
1990									
Kedah System	· .								
MADA Main minor Tributary minor D & I	87.2	87.2 1.8	18.6 0.4	18.6 0.4	42.1 0.9	42.1		· .	
Sub-total Muda-Perai System	89.0	89.0	19.0	19.0	43.0	43.0	0.0	0.0	
Kedah							· :		
Main minor Tributary minor D & I					, ¹ : 				
Pulau Pinang						••			
Main minor D&I									
Sub-total				- 	· ·				
	89.0	89.0	19.0	19.0	43.0	43.0	0.0	0.0	
2000									
Kedah System									
MADA	87.0	87.4	20.6	20.7	38.6	38.8			
Main minor Tributary minor	2.3	1.8	0.5		1.0	0.8			
D&I	4.1	4.1	1.0	1.0	1.8	1.8			
Maintenance flow	3.6	3.6	0.9	0.9	1.6	1.6			
Sub-total	97.0	97.0	23.0	23.0	43.0	43.0	0.0	0.0	
Muda-Perai System			•						
Kedah									
Main minor Tributary minor D & I									
Pulau Pinang		· · · ·							
Main minor D&I						···			
Sub-total									
Total	97.0	97.0	23.0	23.0	43.0	43.0	0.0	0.0	

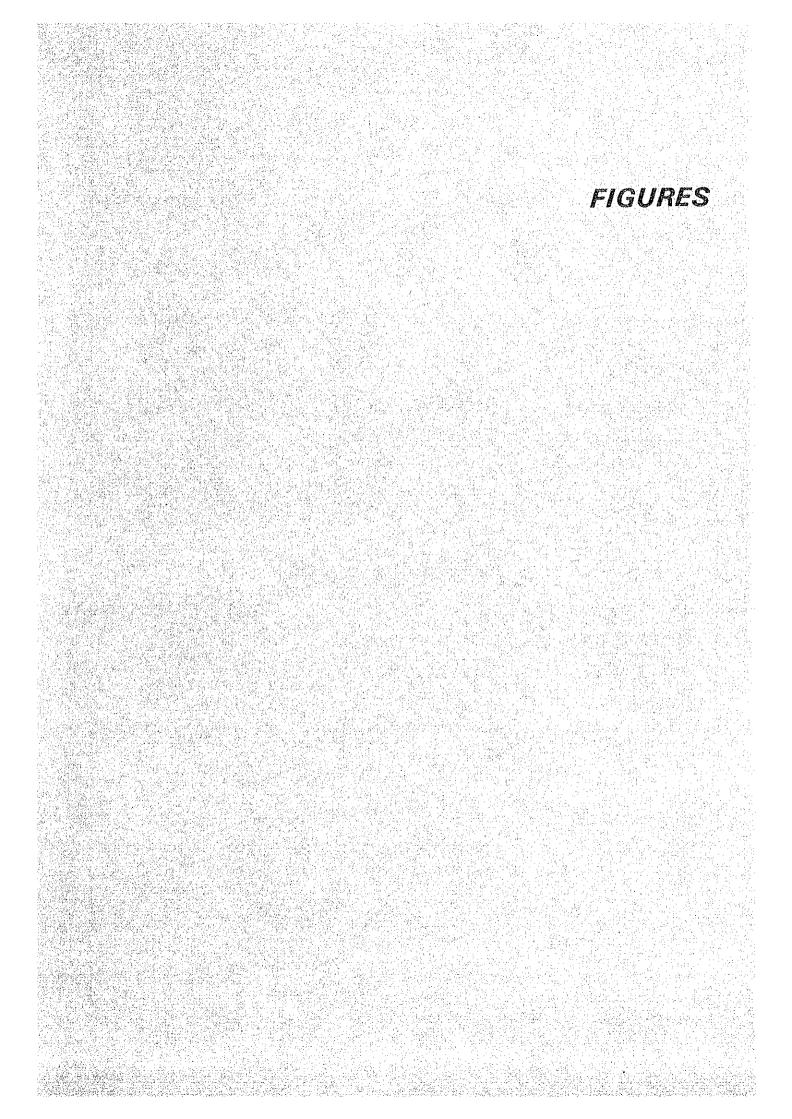
F-103

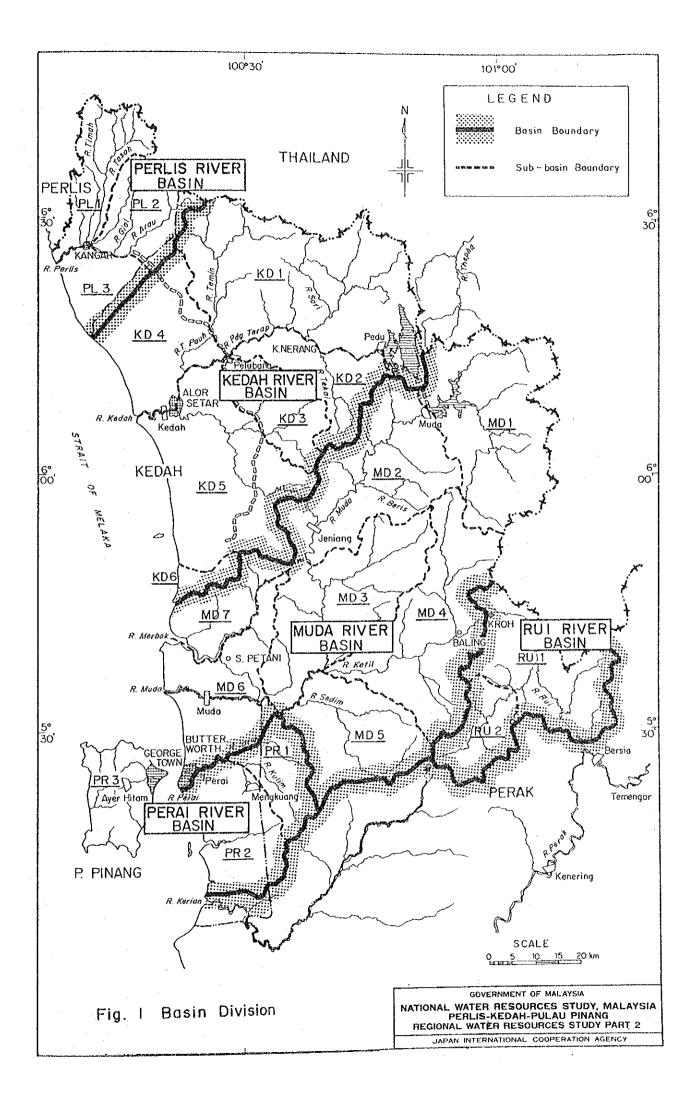
1 NET WATER OUTPUT OF SOURCE FACILITIES BY CAUSE OF WATER DEFICIT (ALTERNATIVE 2, EVEN DISTRIBUTION) (5/6)

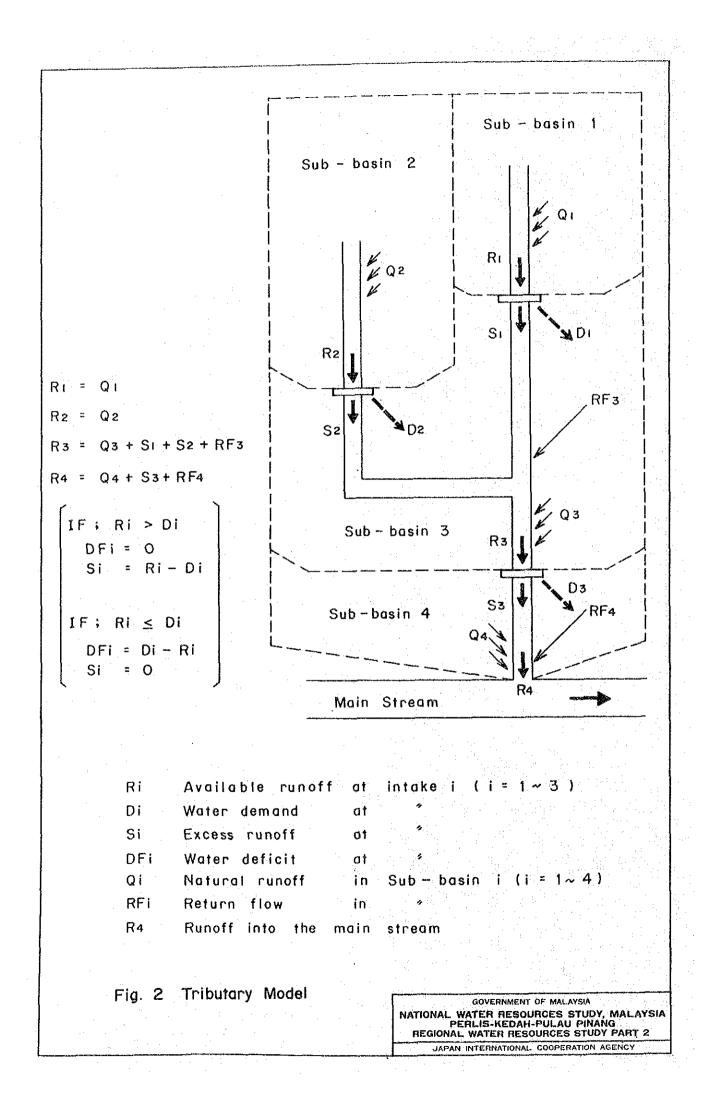
Unit: 10⁶ m³

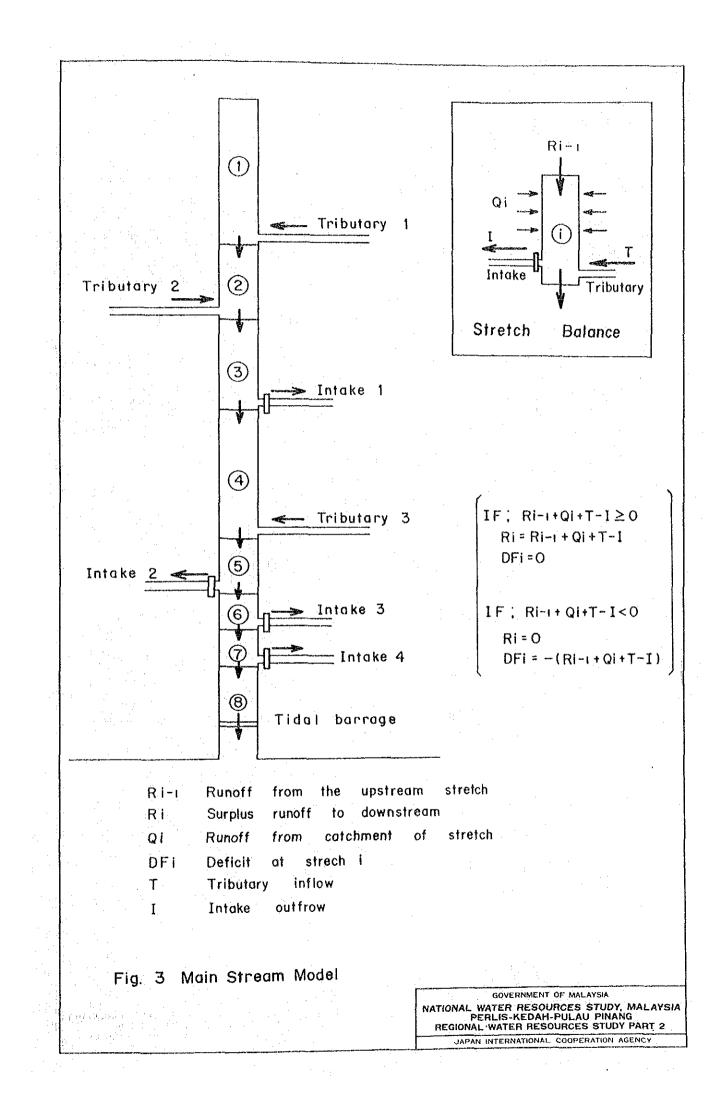
				n //~~-	D
ater Deficit	Case A	Case B	Case	A Case	<u>B</u>
990					
edah System					
	07.0	81.3			
MADA	87.2 1.8	1.7	۰.	-	
Main minor Tributary minor	1.0		:		
					·
Sub-total	89.0	83.0			
	1		¹		
ıda-Perai System					
Kedah					· .
Main minor					
Tributary minor	а 1				
D&I				مان المكاني المالي المكافة الم	
Pulau Pinang			· · · ·		
Main minor					
D&I				: .	
Sub-total		*·····			
		02:0			
Total	89.0	83.0		1997 - 1998 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -	
000					
edah System	· .	•	• •	· .	
	74.4	74.8		2000	a di Alt
MADA Main minor	2.6	1.6		1. 	
Tributary minor	2.0	1.0			100
D&I	3,5	3.5			1
Maintenance flow	3.1	3.1	i.	· · · · · · · · · · · · · · · · · · ·	
Sub-total	83.0	83.0			
	· .		•		
ıda-Perai System	:				
Kedah					
Main minor	5. 1				e je tek
Tributary minor D&I					
:			- 	· · ·	
Pulau Pinang					
Main minor			· · ·	$(a_{1}^{-1})^{-1} \in \mathbb{R}^{n} \to 0$	
D&I	·			· · · · · · · · · · · · · · · · · · ·	
Sub-total					

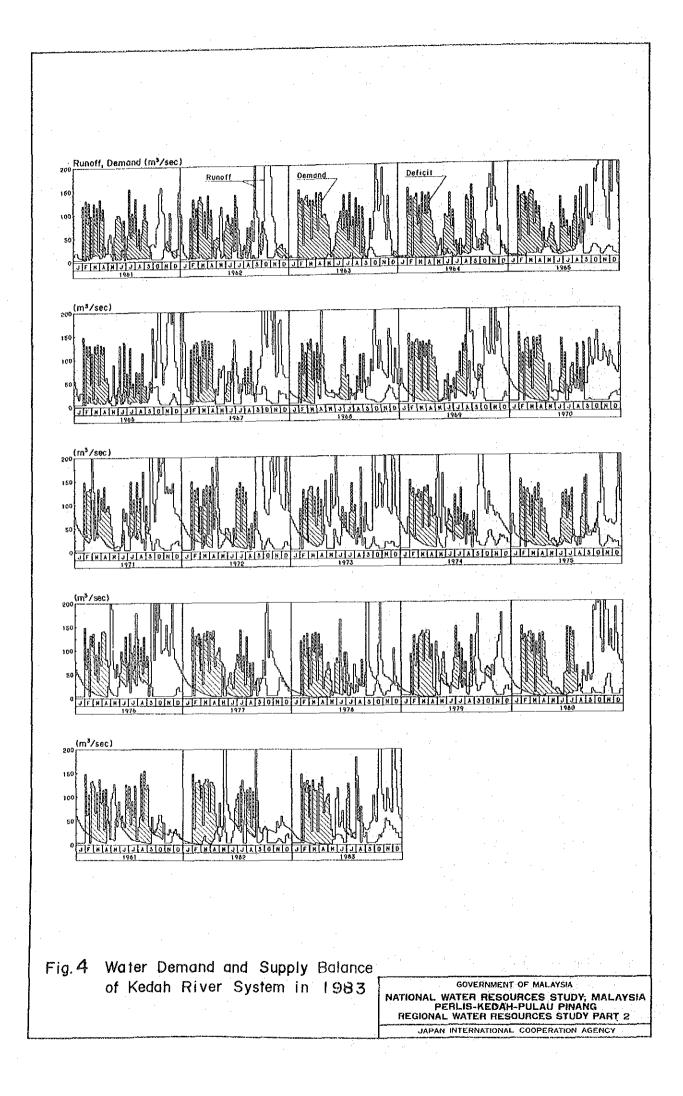
	na an ann an an an Gallana an Airtean A			• • •					
* .* •.	Table 92	BY CA	ATER OUT USE OF W RNATIVE	ATER DEI	FICIT	•			
Ca	use of		man	Tawar-I		Khle	U	nit: 10	
	r Deficit		Case B		Case B	<u>The</u> Case A	case B	Case A	:bok Case
1990	•	•							
Keda	h System						:		
	MADA Main minor	81.3 1.7	81.3	16.7	16.7	42.1	42.1		
e La sere	Tributary minor	Τ•1	1.7	0.3	0.3	0.9	0.9		
	D&I Sub-total	83.0	83.0	17.0	17.0	43.0	43.0		
Muda	-Perai System				~·• · ·				
	dah								• •
··· · ·	Main minor Tributary minor D&I				·		- - 	3.0 4.0 2.0	1. 1. 2.
Pu	lau Pinang							<i>c.</i> + U	4 •
· .	Main minor D&I		<u> </u>		· · ·	· .		3.0 0.0	3. 0.
	Sub-total							12.0	7.
2000	Total	83.0	83.0	17.0	17.0	43.0	43.0	12.0	7.
·	h System					÷.,			
	MADA	74.4 2.0	74.8 1.6	17.0	17.1 0.4	32.3 0.9	32.5 0.7		
	Main minor Tributary minor							· .	
	D&I Maintenance flow	3.5 3.1	3.5 3.1	0.8	0.8	1.5	1.5		
	Sub-total	83.0	83.0	19.0	19.0	36.0	36.0		
	-Perai System	· .		:	·		· · · ·		
Ke	dah Maja minaw							3.0	1.
	Main minor Tributary minor			• • •	ал 1 1			10.0	1.
	D & I						·	2.0	2.
Pu	lau Pinang Main minor							3.0 5.0	3. 5.
	D&I Sub-total			<u> </u>				23.0	12.
	Total	83.0	83.0	19.0	19.0	36.0	36.0	23.0	12.
					· · ·	2 - ¹ - -	· . ·		÷
· · ·				-105				· · · · ·	
			Е	-105	** 4				

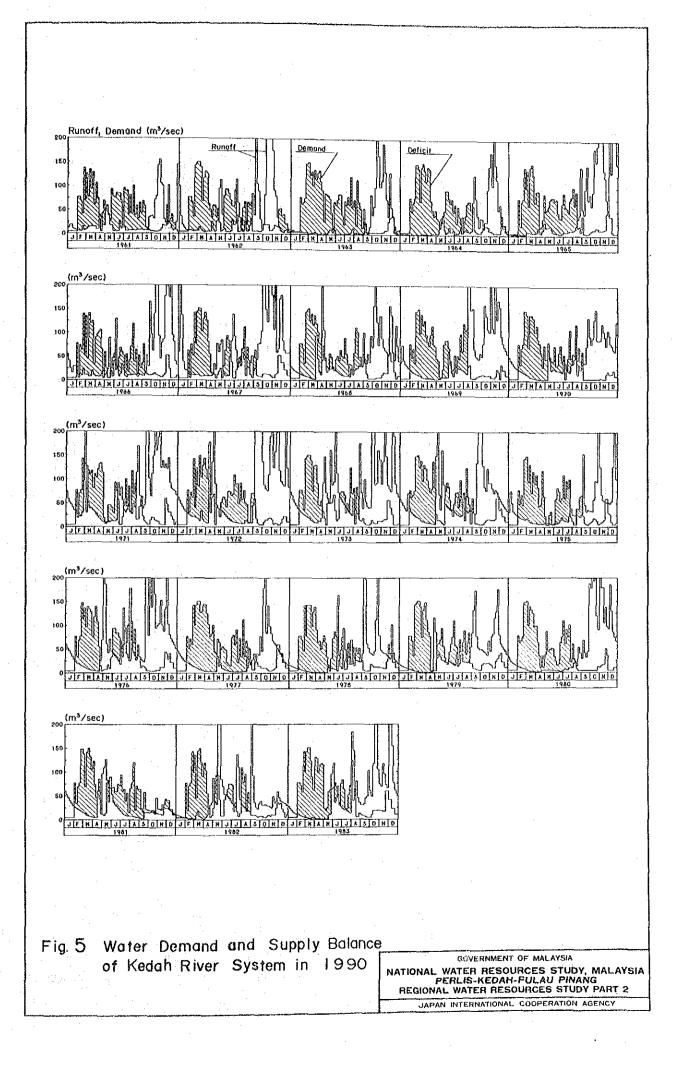


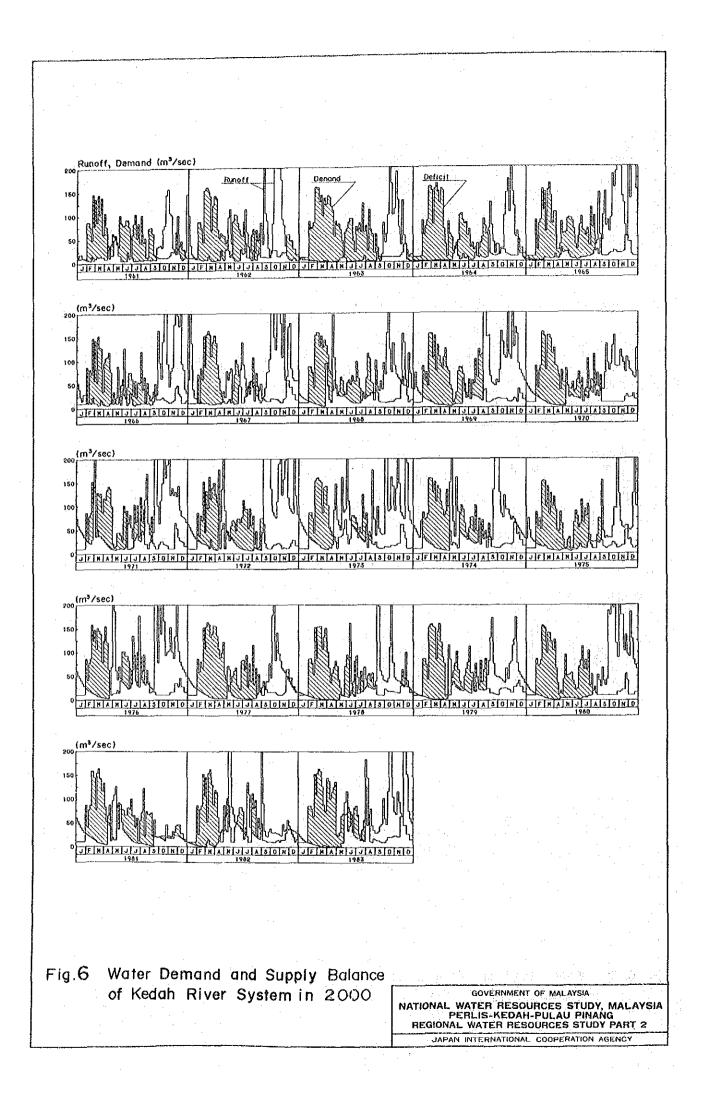


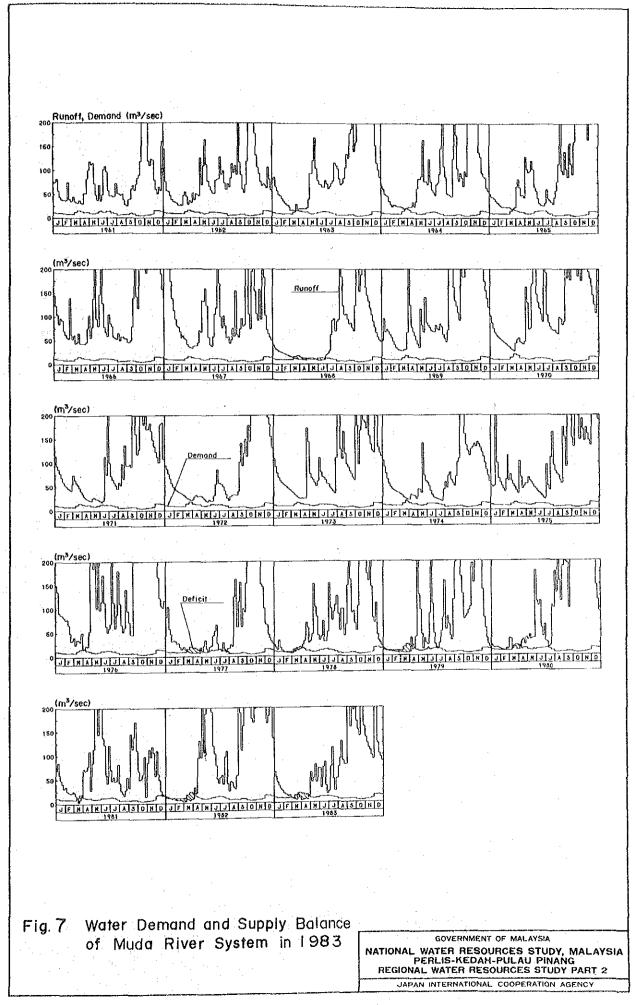


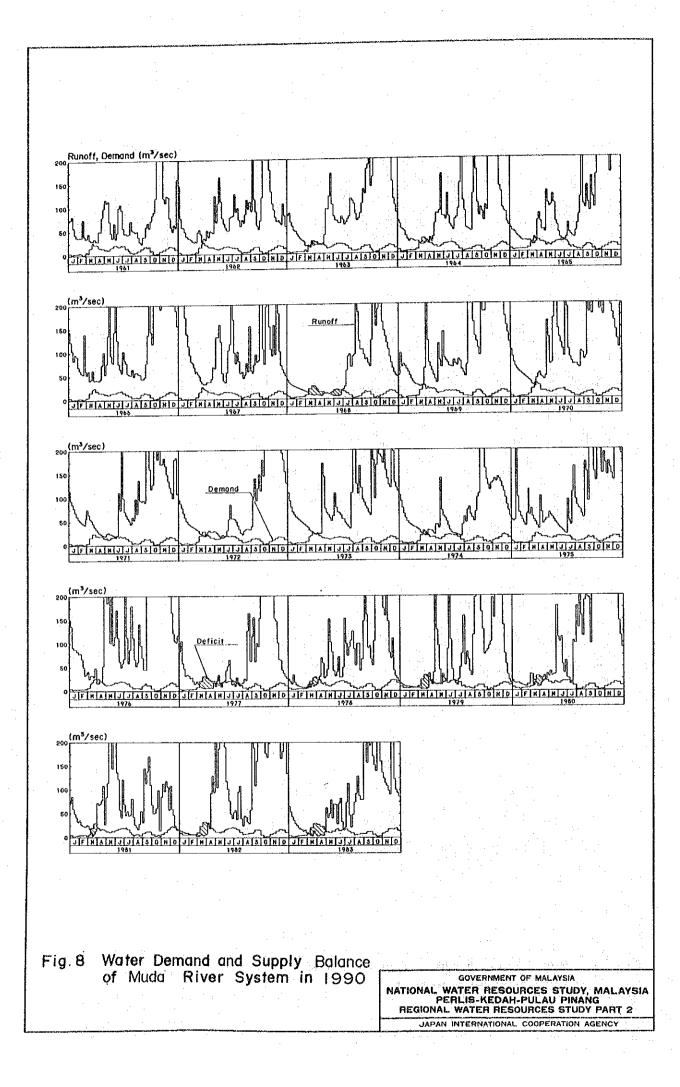


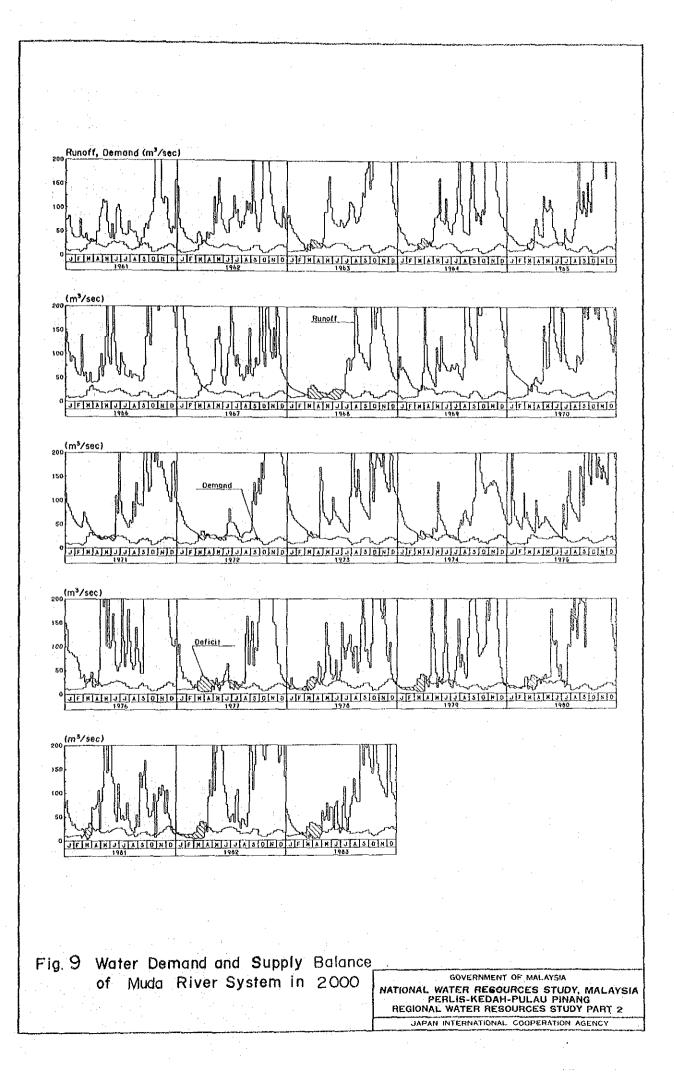


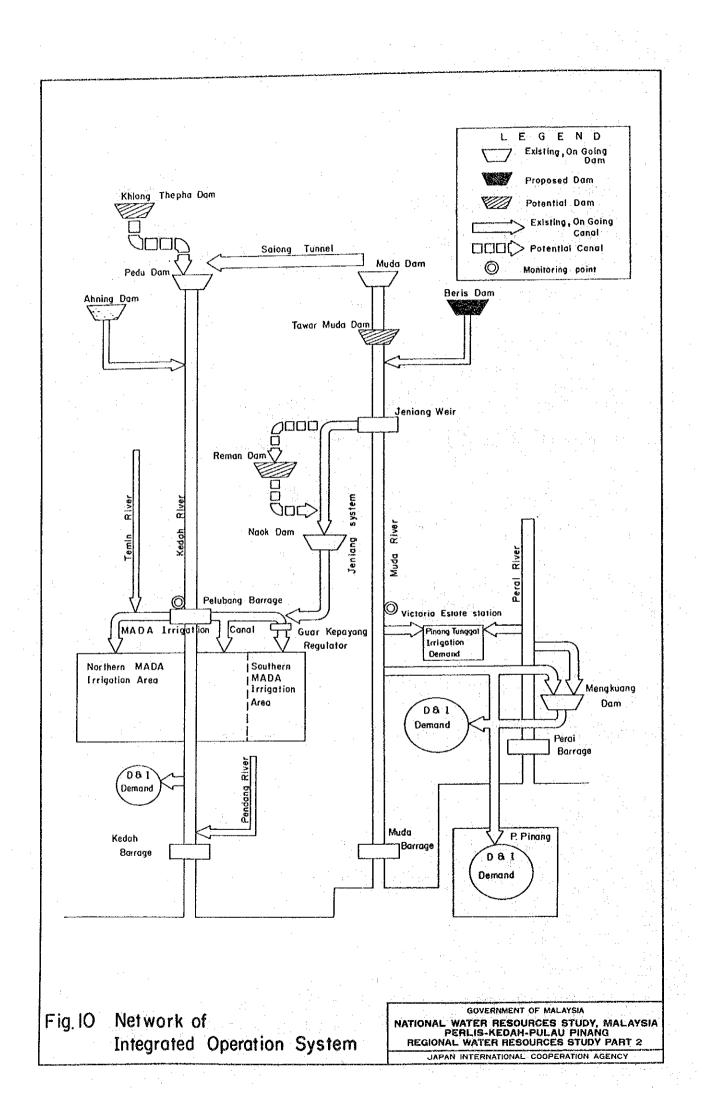


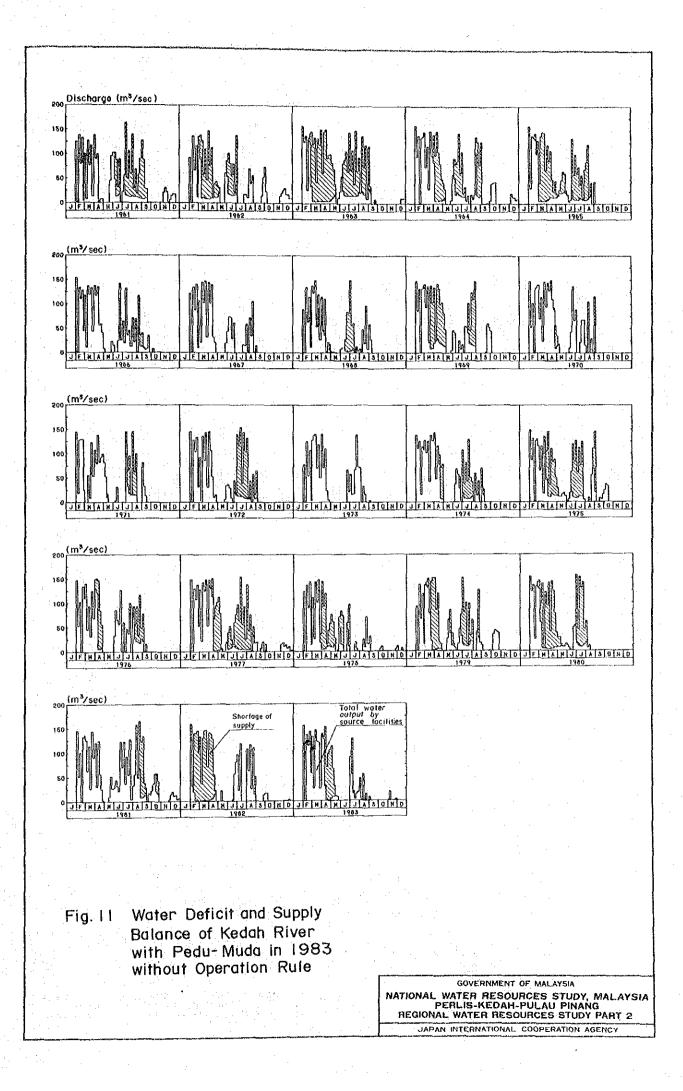


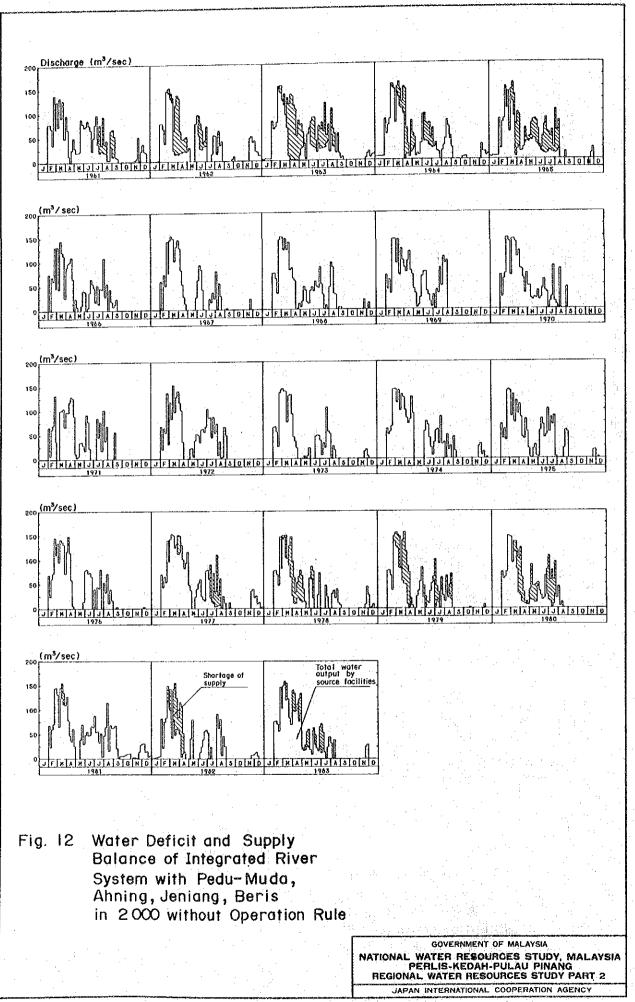




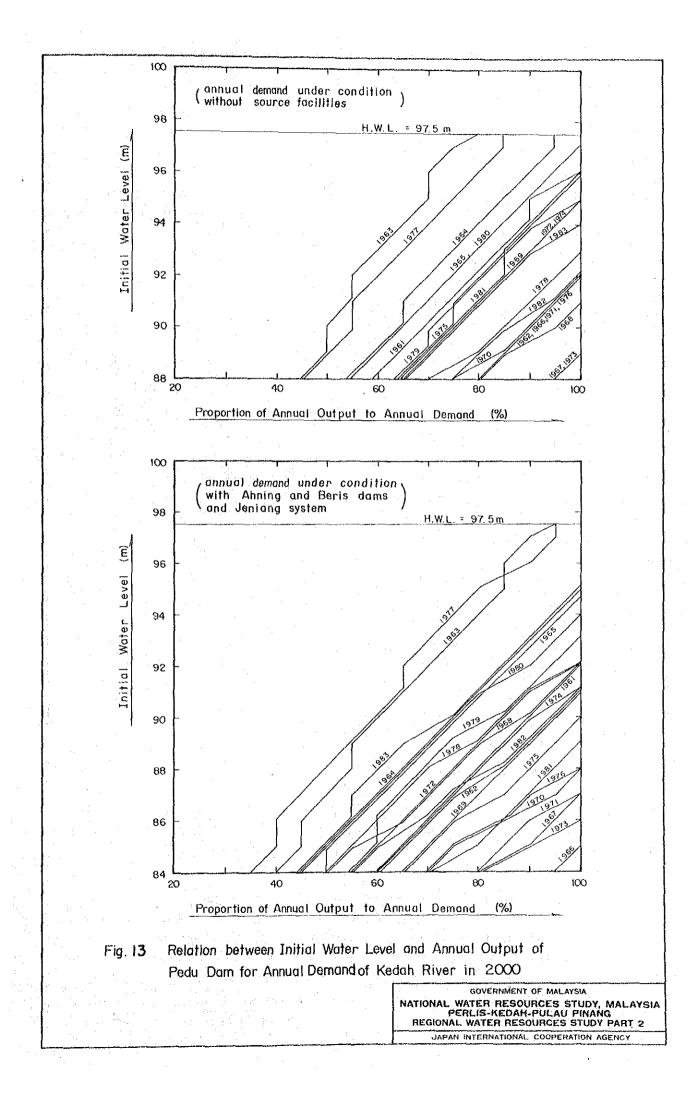


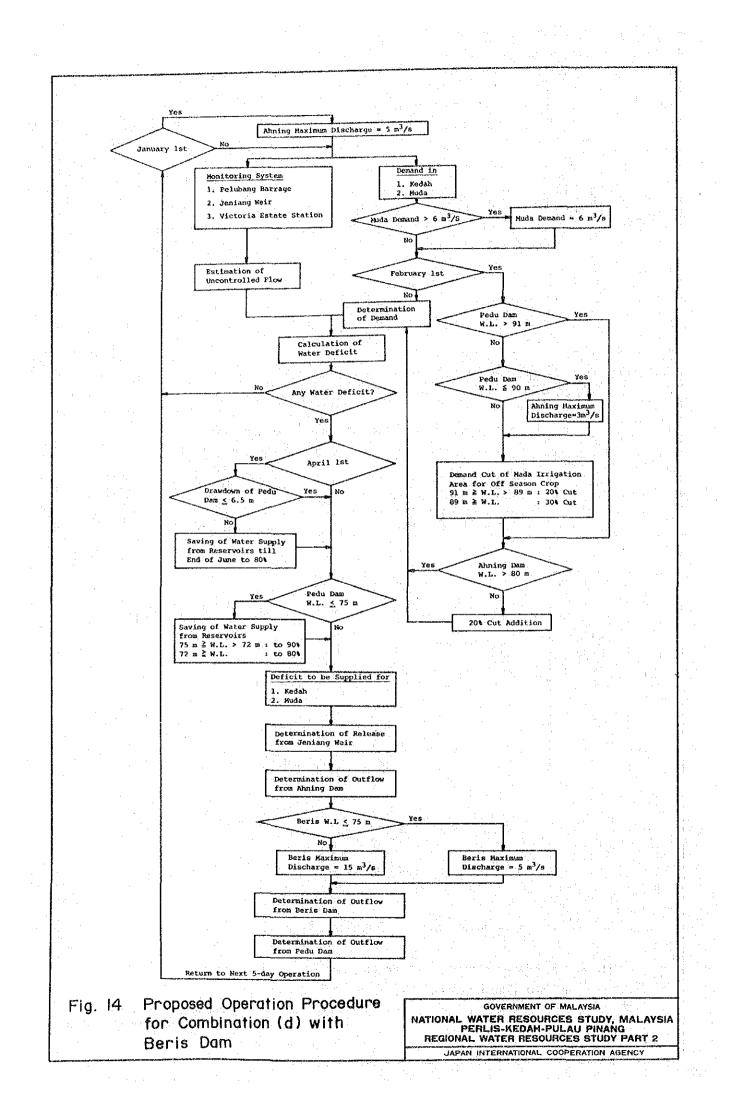


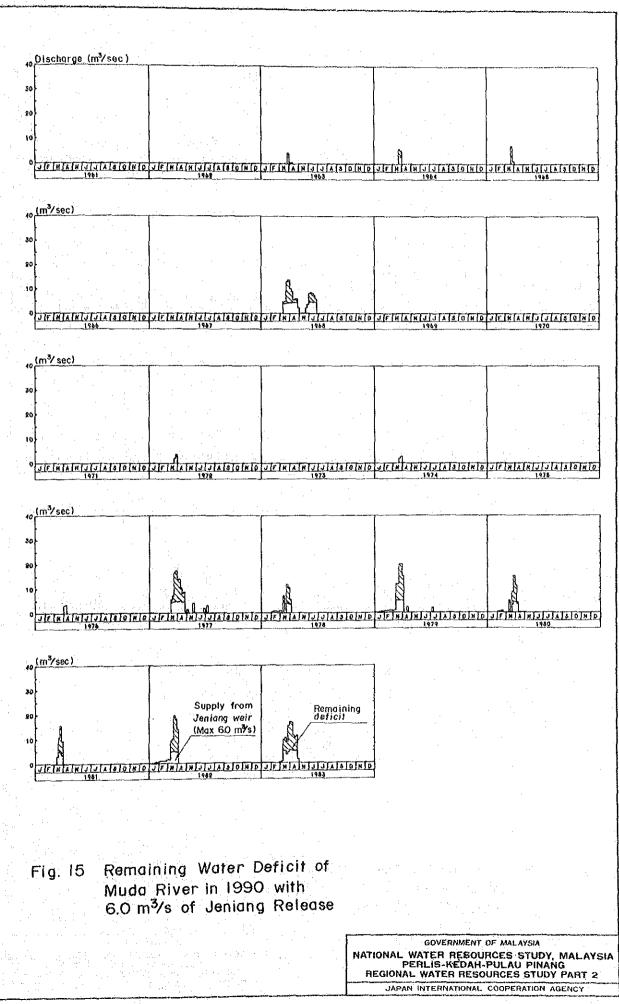




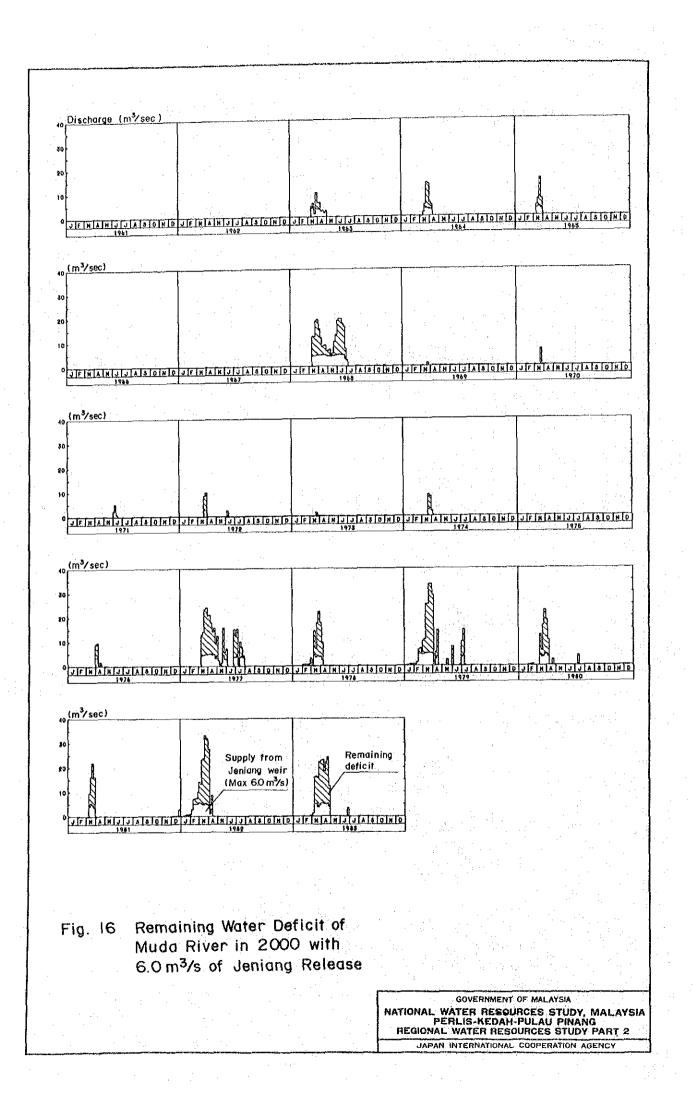
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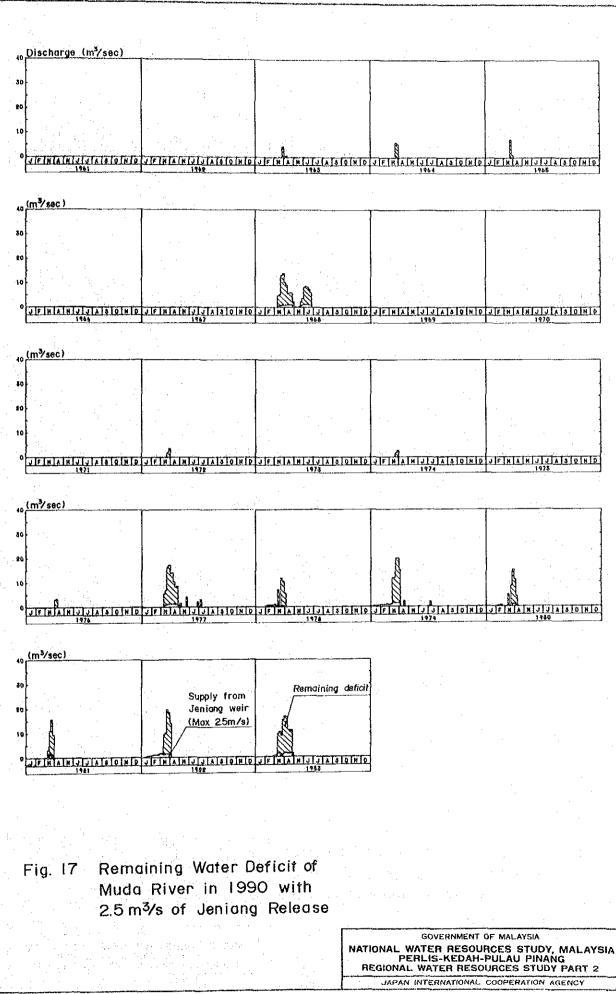


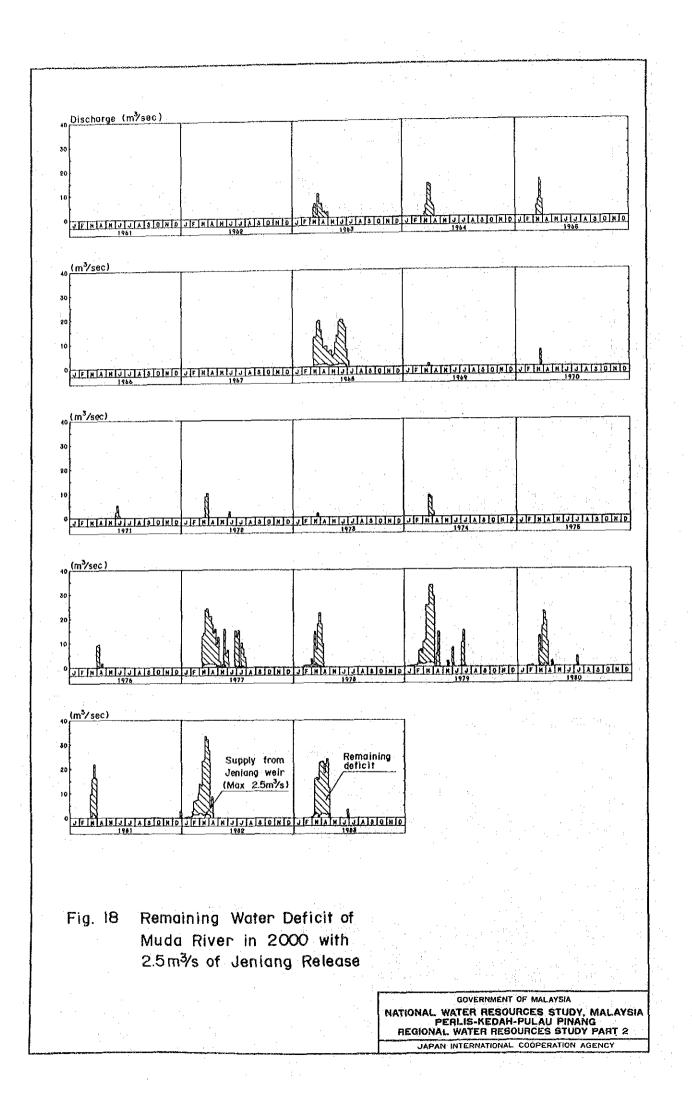


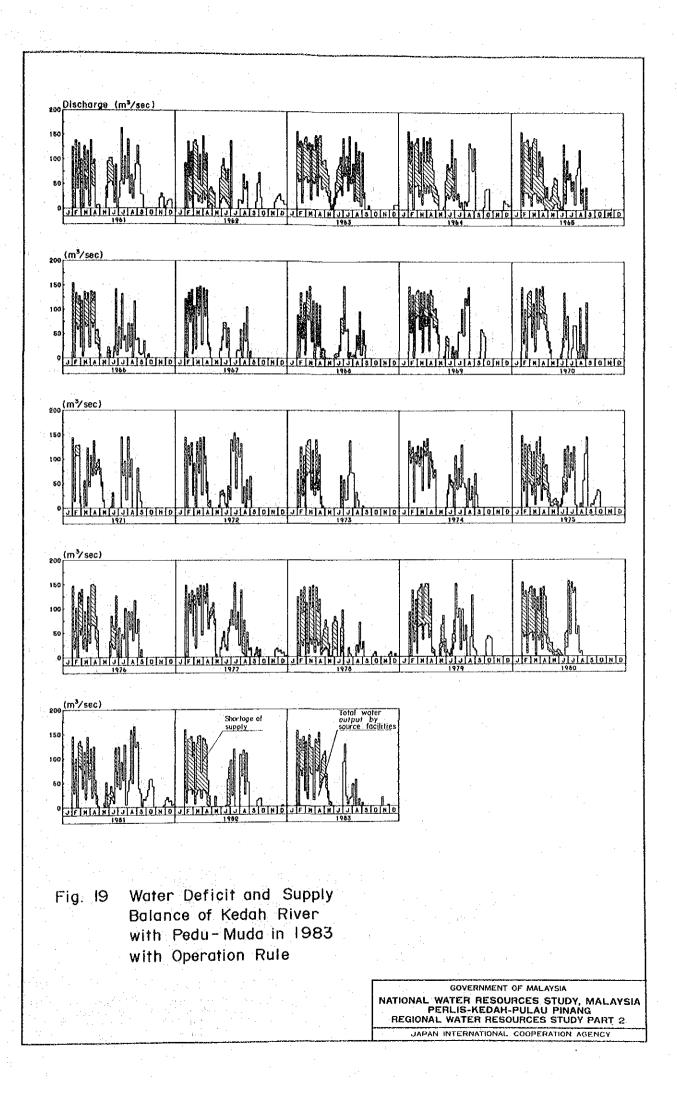


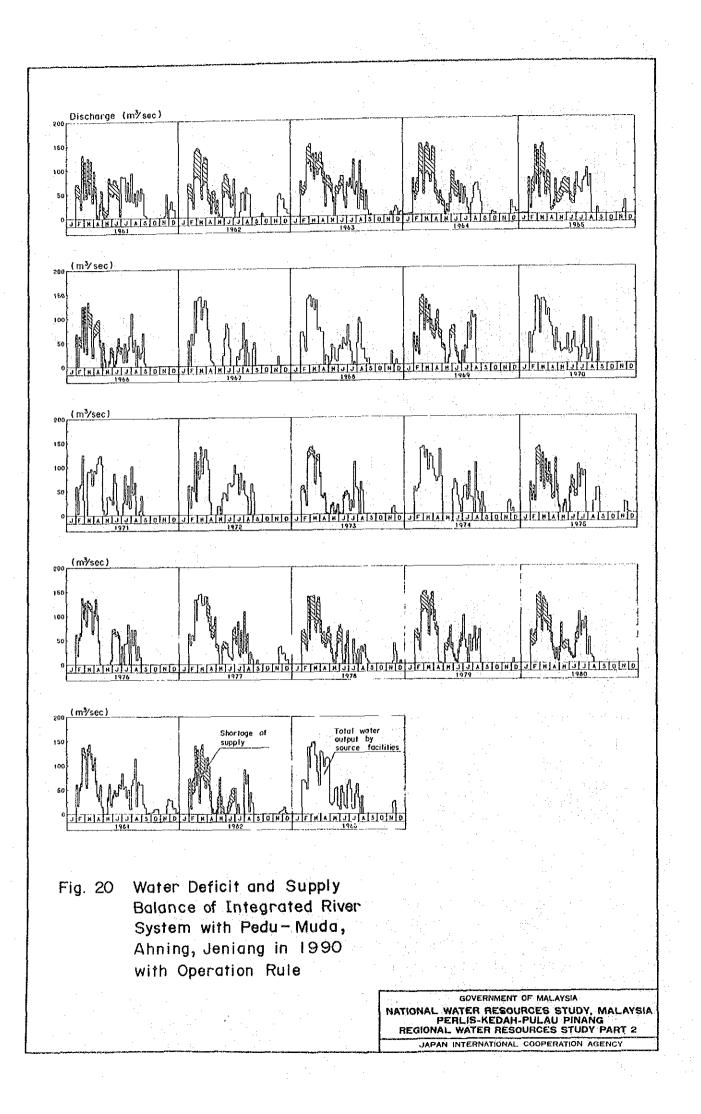
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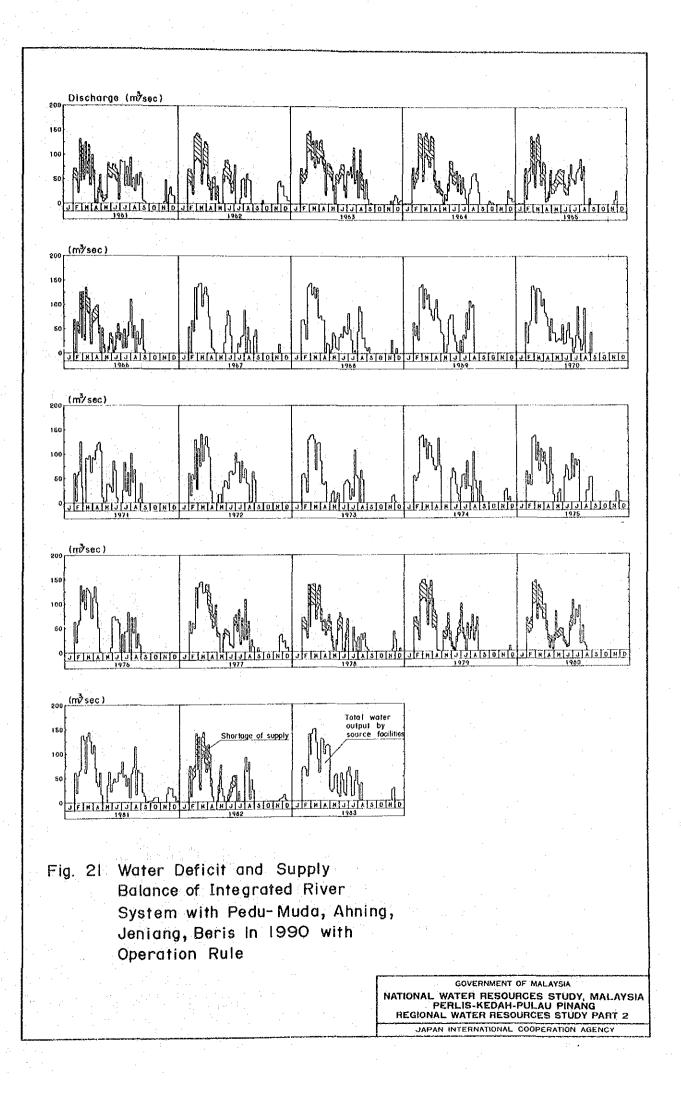


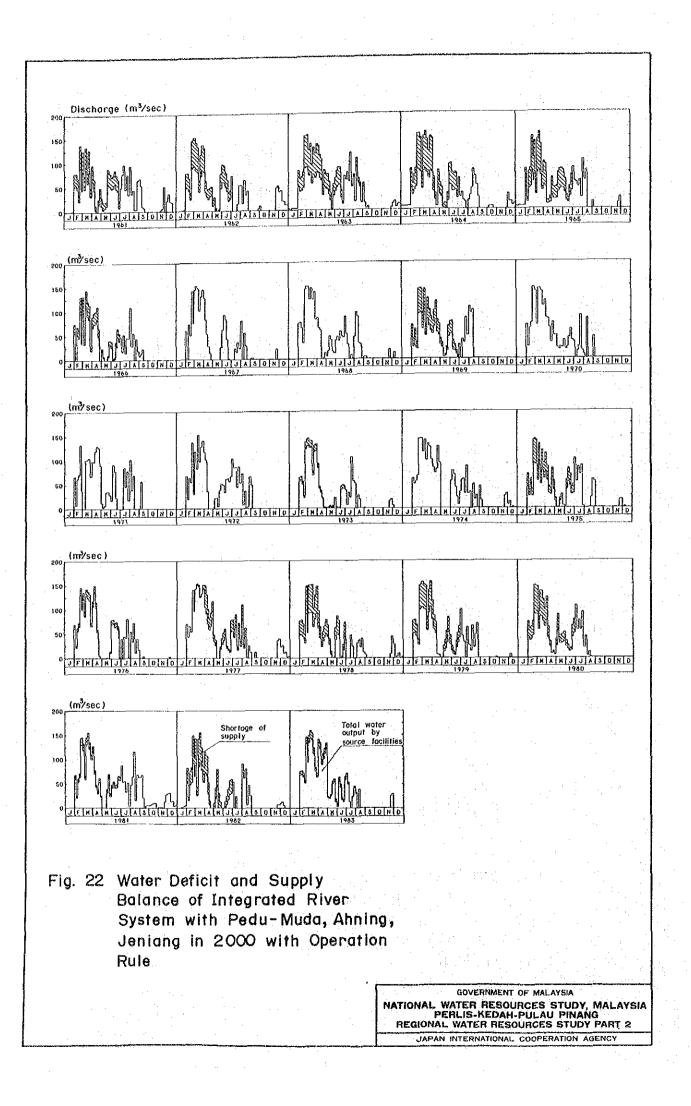


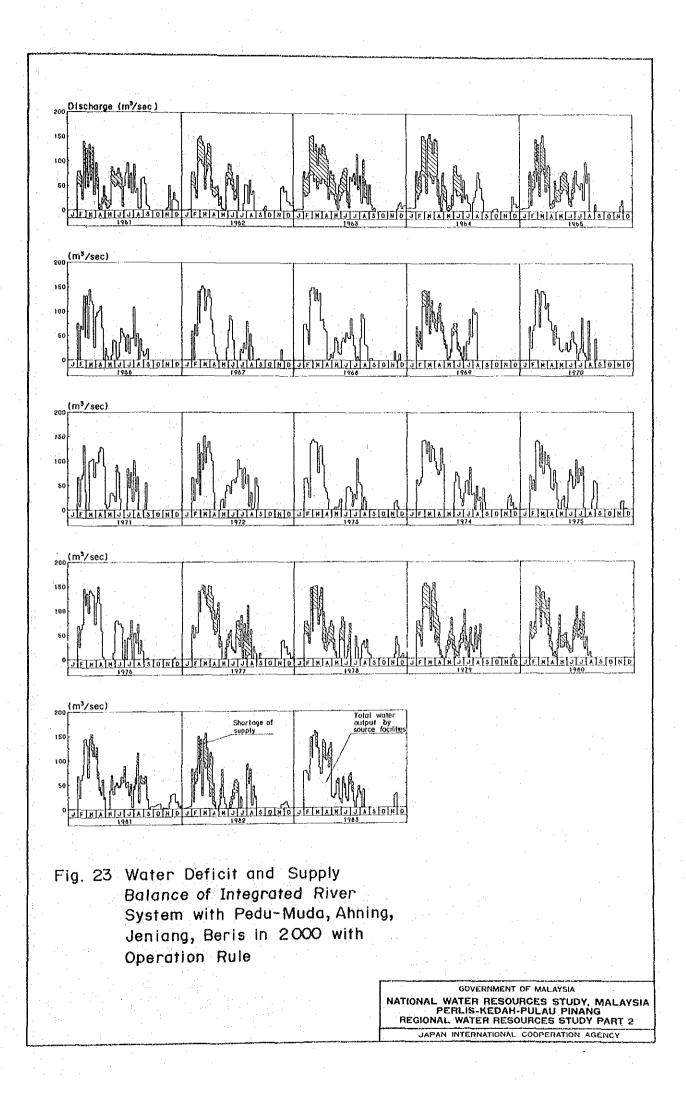


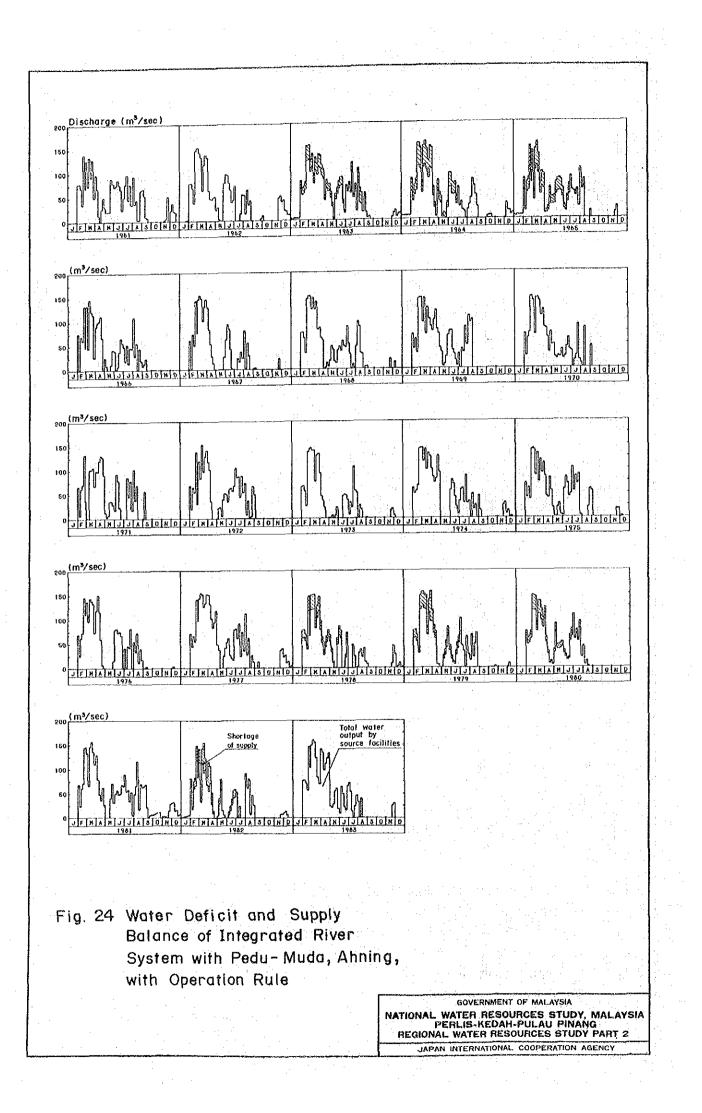


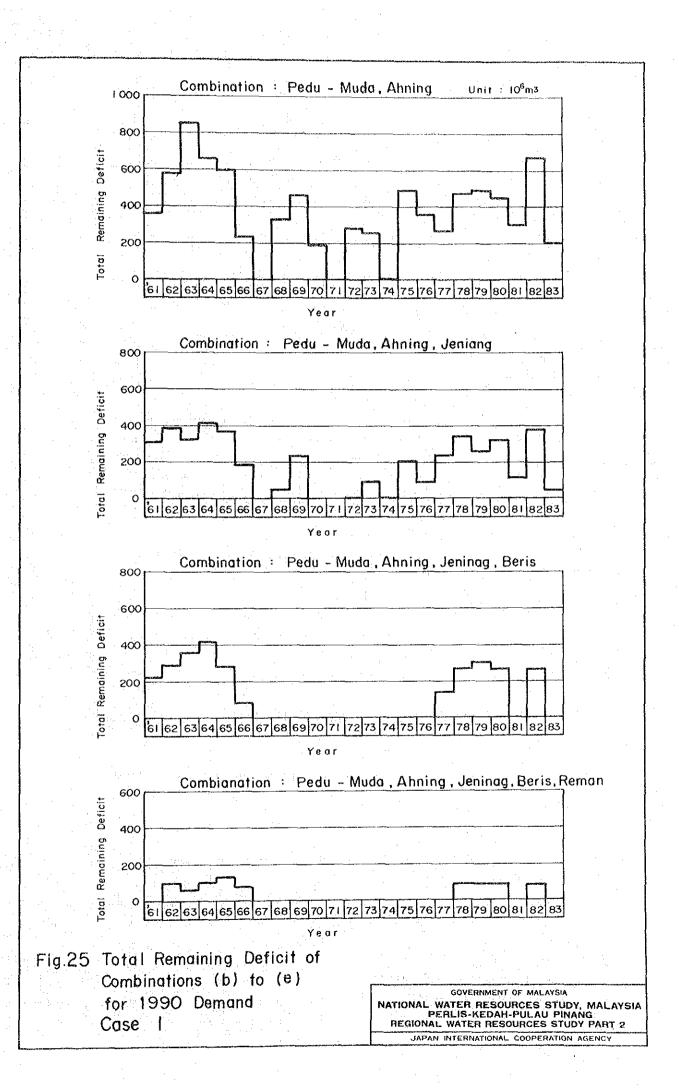


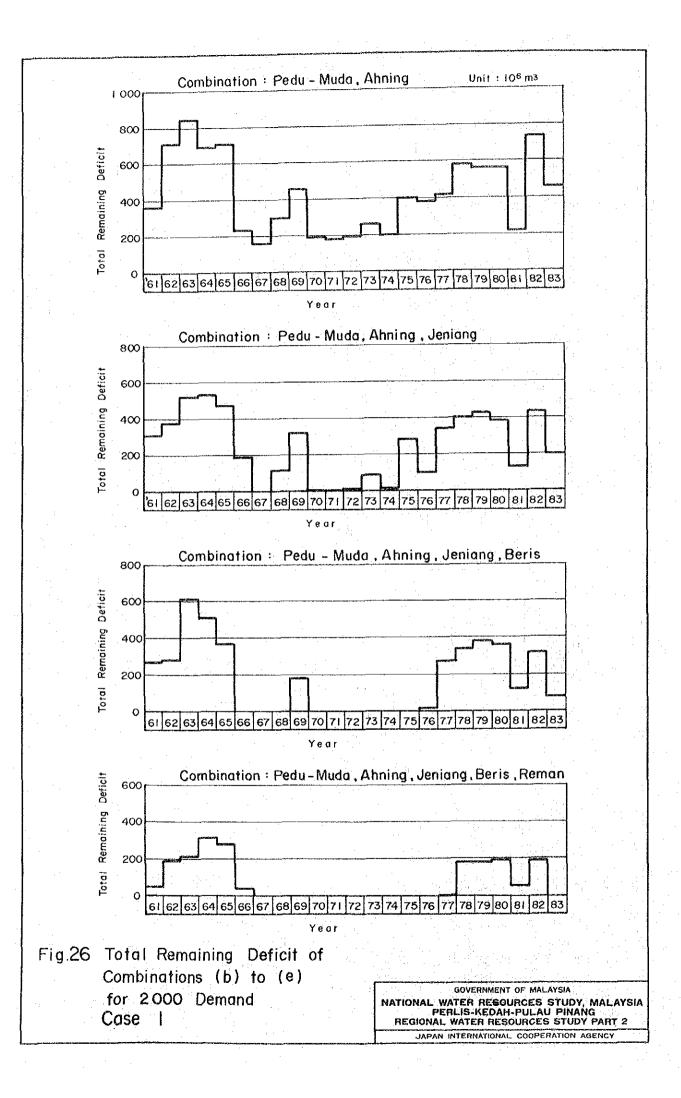


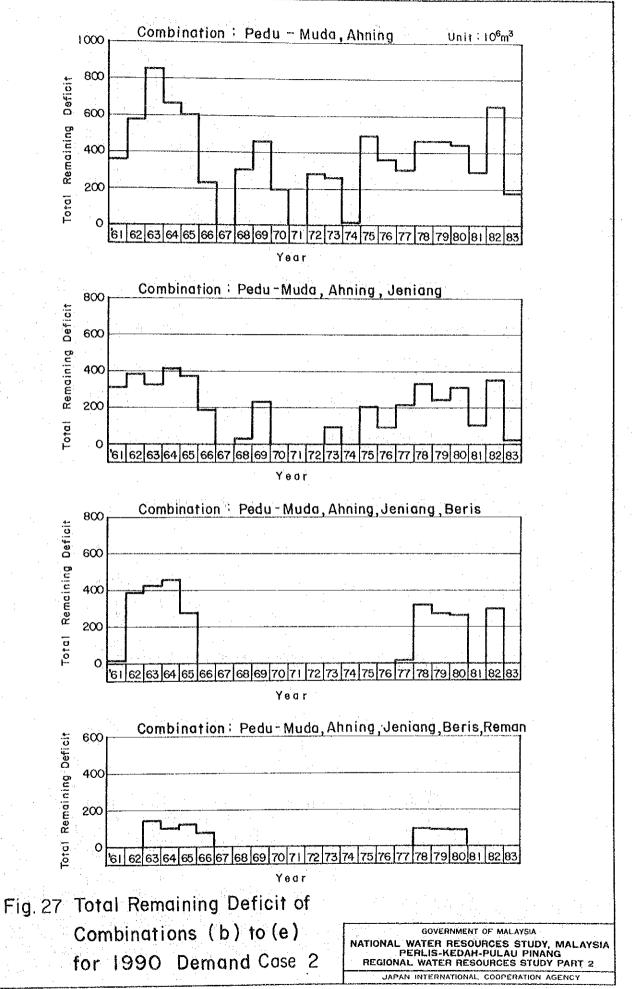












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