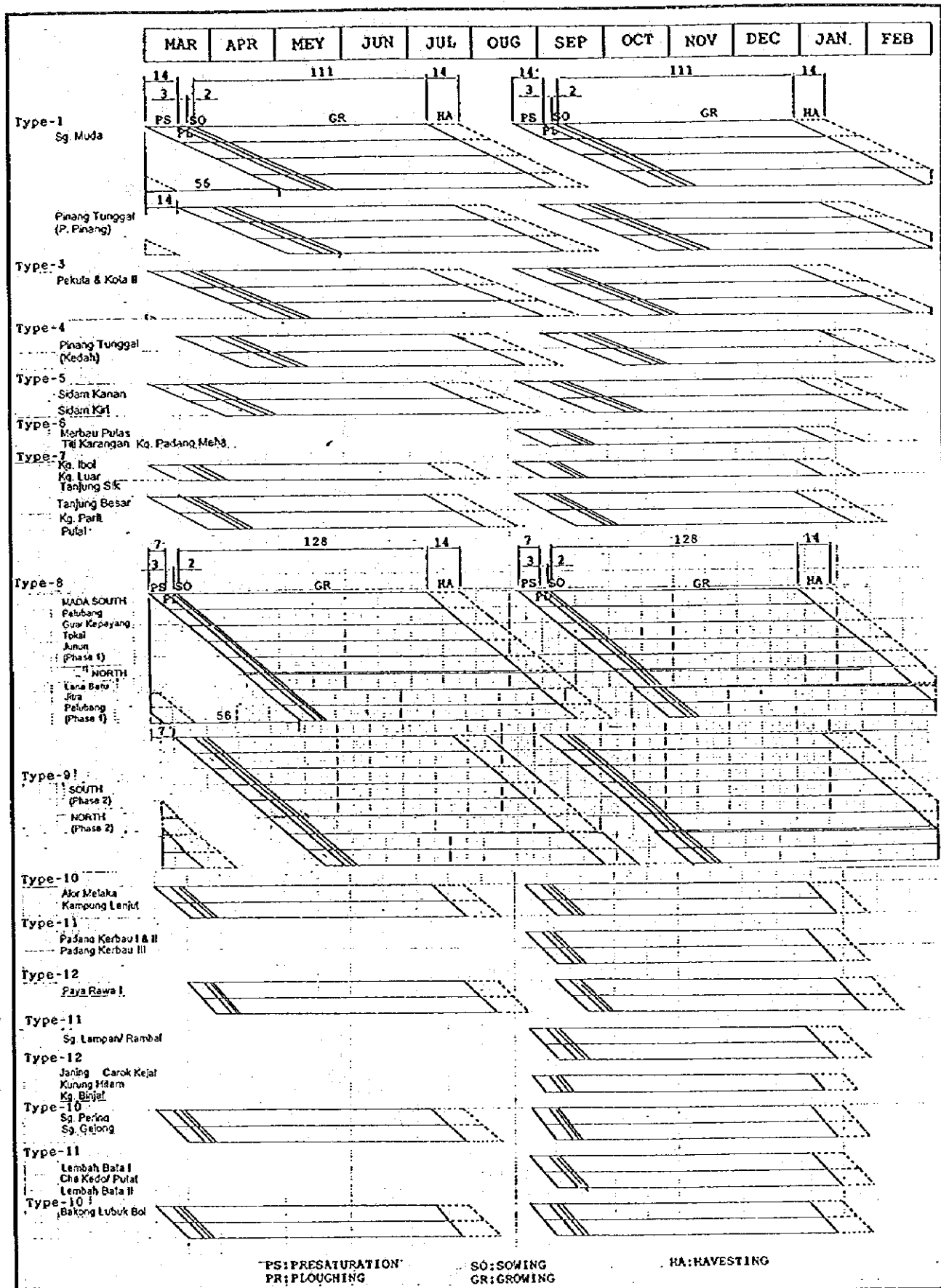


COMPREHENSIVE MANAGEMENT PLAN OF
MUDA RIVER BASIN

JAPAN INTERNATIONAL COOPERATION AGENCY

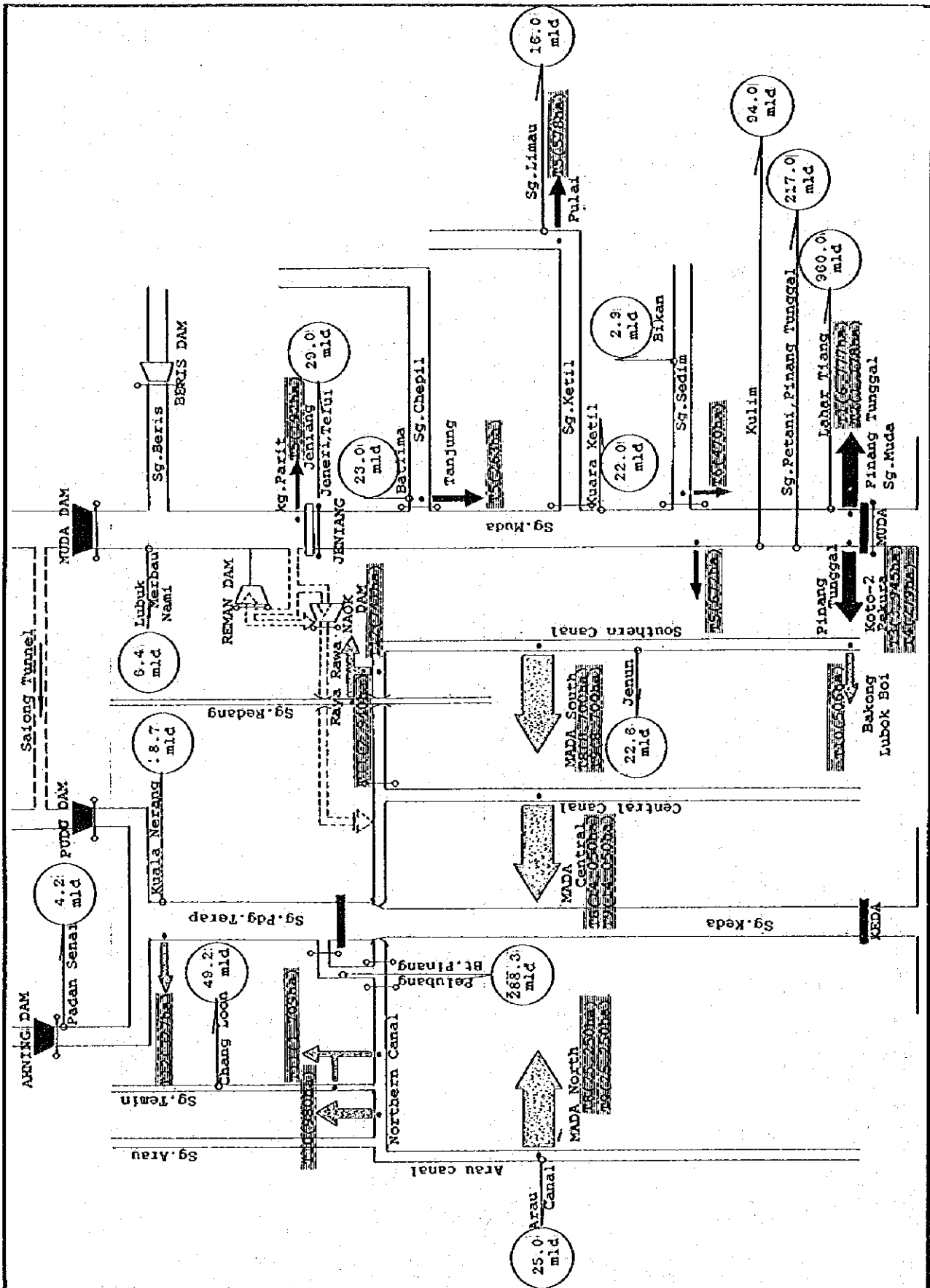
FIG.III. 3.1.1 LOCATION OF DOMESTIC/INDUSTRIAL
WATER SUPPLY SERVICE AREA -
PROJECTED IN 2010 -



COMPREHENSIVE MANAGEMENT PLAN OF
MUDA RIVER BASIN

JAPAN INTERNATIONAL COOPERATION AGENCY

FIG. III. 3.2.2 FARMING ACTIVITIES AND
IRRIGATION SCHEDULES

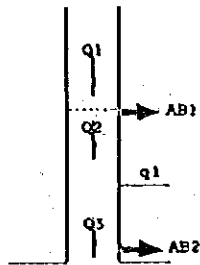


COMPREHENSIVE MANAGEMENT PLAN OF
MUDA RIVER BASIN

FIG.III. 4.2.1 DEMAND AND SUPPLY SYSTEM
DIAGRAM IN MUDA RIVER SYSTEM

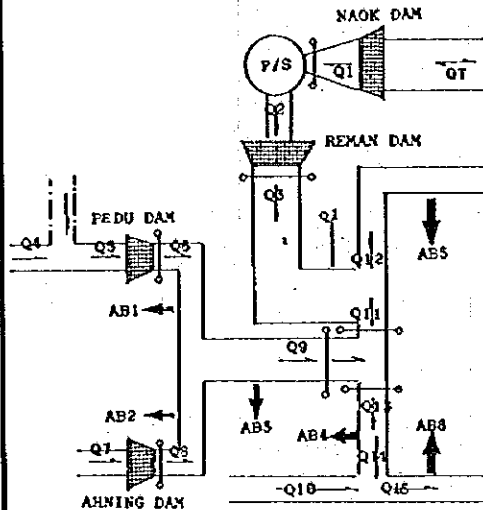
JAPAN INTERNATIONAL COOPERATION AGENCY

TRIBUTARY MODEL



- Q1 : Natural Flow at Intake Point
- q1 : Natural Flow from Intake Point to Junction
- Q2 = $\text{AMAXI}(Q1 - AB1, 0.)$
- Q3 : Outflow for Main River
- = $\text{AMAXI}(Q2 - q1 - AB2, 0.)$

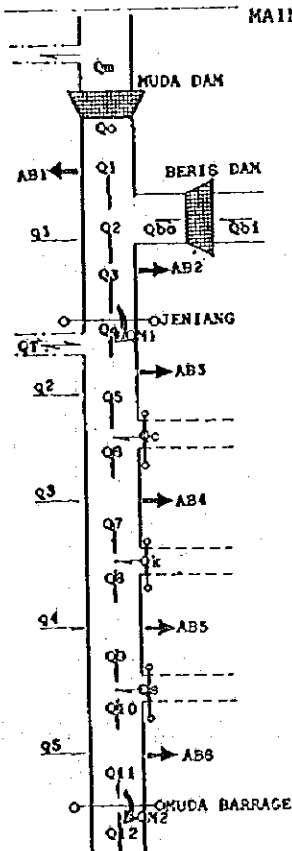
TRANSFER MODEL



- QT : Transfer from MUJA RIVER
- q1 : Natural Flow from FEDU & AHNING DAM to PULUBANG BARRAGE
- Q1 : Release from NAOK DAM
- Q2 : PumpUp Volume to REMAN DAM
- Q3 : Release from REMAN DAM
- Q4 : Natural Flow at FEDU DAM
- Q5 = $Q4 + Q4$
- Q6 : Release from FEDU DAM
- Q7 : Natural Flow at AHNING DAM
- Q8 : Release from AHNING DAM
- Q9 = $\text{AMAXI}(\text{AMAXI}(Q5 - AB1, 0.) + \text{AMAXI}(Q3 - AB2, 0.) + q1 - AB3, 0.)$
- Q10 : Nature Flow from Sg. Teain + Sg. Arau
- Q11 = $Q9 - Q15$
- Q12 = $Q11 + Q3 + AS5$
- Q13 = $Q8 - Q11$
- Q14 = $Q13 - AB4$
- Q15 = $Q14 + Q10 = AS8$

notes : ABn : Abstraction from each point

MAIN STREAM MODEL



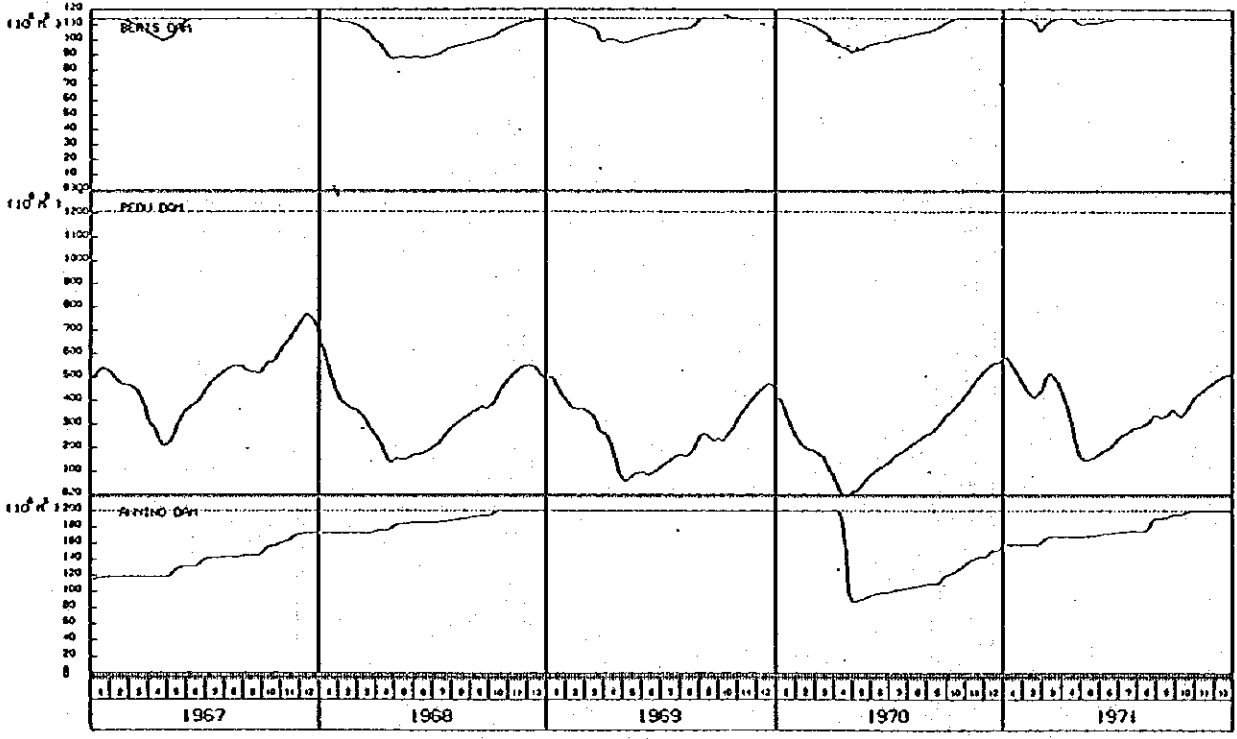
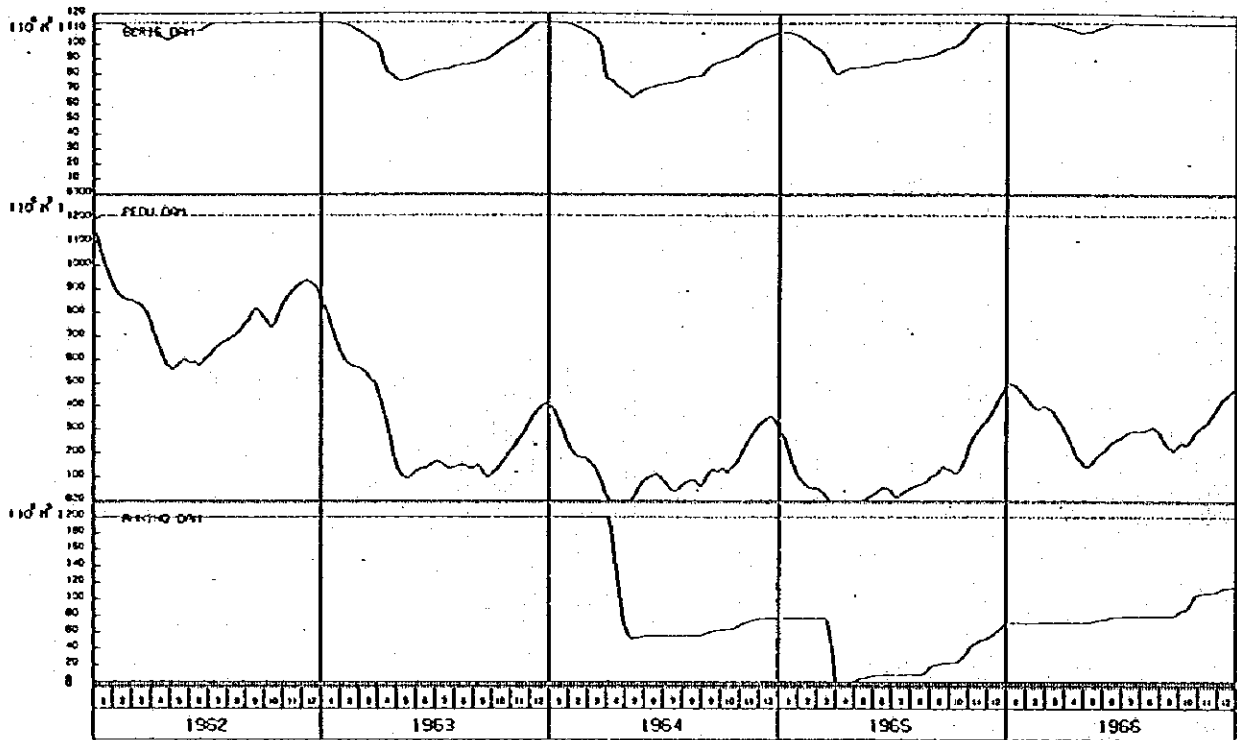
- Qa : Natural Flow at MUDA DAM
- Q0 : Natural Flow at NAMI - Qa
- Qc : Inflow from Sg. Chapil
- Qd : Inflow from Sg. Sedim
- Qe : Inflow from Sg. Ketil
- Qb1 : Natural Flow at BERIS DAM
- Qb0 : Release from BERIS DAM
- q1 : Natural Flow from NAMI to JENIANG
- q2 : Natural Flow from JENIANG to Sg. Chapil Junction
- q3 : Natural Flow from Sg. Chapil Junction to Sg. Ketil Junction
- q4 : Natural Flow from Sg. Ketil Junction to Sg. Sedim Junction
- q5 : Natural Flow from Sg. Sedim Junction to MUDA Barrage
- Qm1 : Maintenance Flow at JENIANG
- Qm2 : Maintenance Flow at MUDA BARRAGE
- Q1 = $\text{AMAXI}(Q0 - AB1, 0.)$
- Q2 = $Q1 - Q2$
- Q3 = $\text{AMAXI}(Q2 + q1 - AB2, 0.)$
- Q4 = $Q3 - QT$
- Q5 = $\text{AMAXI}(Q4 + q2 - AB3, 0.)$
- Q6 = $Q5 - Qc$
- Q7 = $\text{AMAXI}(Q6 + q3 - AB4, 0.)$
- Q8 = $Q7 - Qd$
- Q9 = $\text{AMAXI}(Q8 + q4 - AB5, 0.)$
- Q10 = $Q9 - Qe$
- Q11 = $\text{AMAXI}(Q10 + q5 - AS8, 0.)$
- QT = $\text{AMINI}(\text{VEN}, \text{VER}, \text{CC}, \text{AMINI}(Q5, Q7, Q9, Q11, QM2))$
- VER : (total capacity - storage capacity) of NAOK DAM
- VER : (total capacity - storage capacity) of REMAN DAM
- CC : Capacity of Transfer Canal
- Q12 = $\text{AMAXI}(Q11 - QT, 0.)$
- Qb0 = $\text{AMINI}((\text{AMINI}(Q2 + q1 - AB2, 0.) + \text{AMINI}(Q4 + q2 - AB3, 0.) + \text{AMINI}(Q6 + q3 - AB4, 0.) + \text{AMINI}(Q8 + q4 - AB5, 0.) + \text{AMINI}(Q10 + q5 - AS8 - QM2, 0.)) \cdot 0., \text{SYB}) \cdot (-1.)$

notes : SVD : STORAGE of BERIS RESERVIOR
 notes : AMAXI(A,B,C) : Maximum in A,B,C
 AMINI(A,B,C) : Minimum in A,B,C
 notes : ABn : Abstraction from each point

COMPREHENSIVE MANAGEMENT PLAN OF MUDA RIVER BASIN

JAPAN INTERNATIONAL COOPERATION AGENCY

FIG.III. 4.3.1 WATER BALANCE SIMULATION MODEL

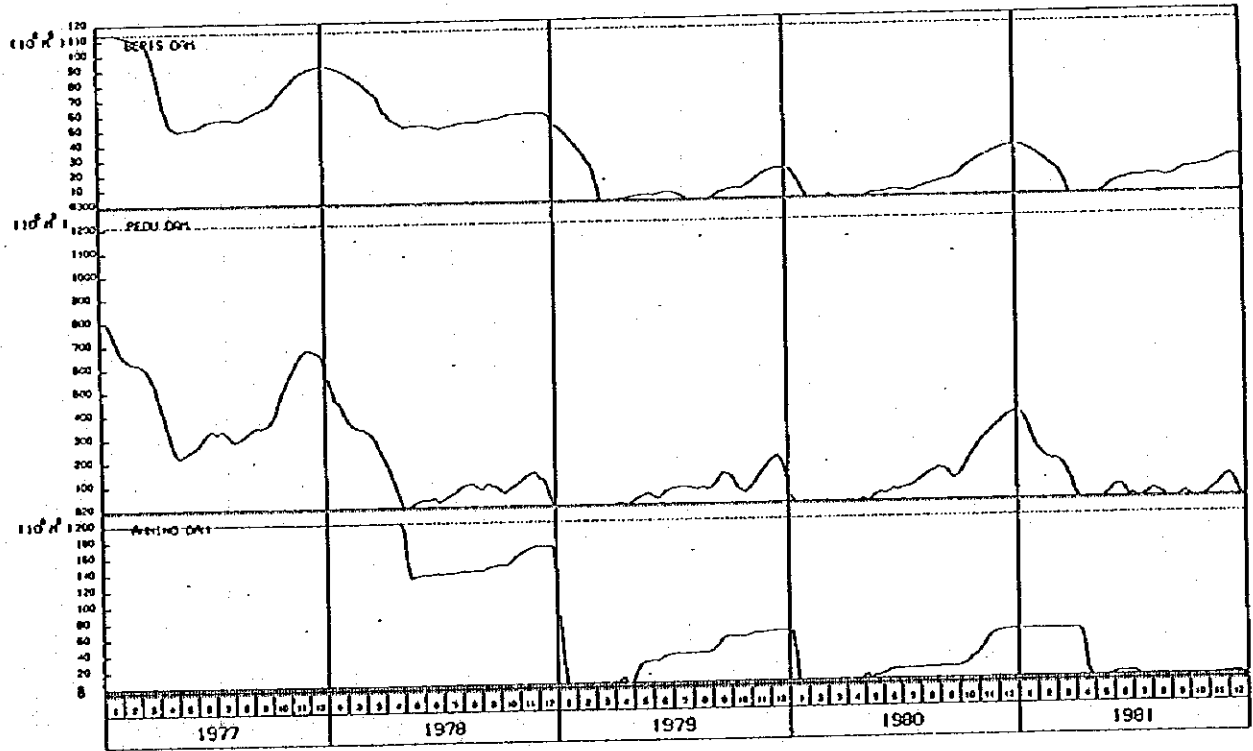
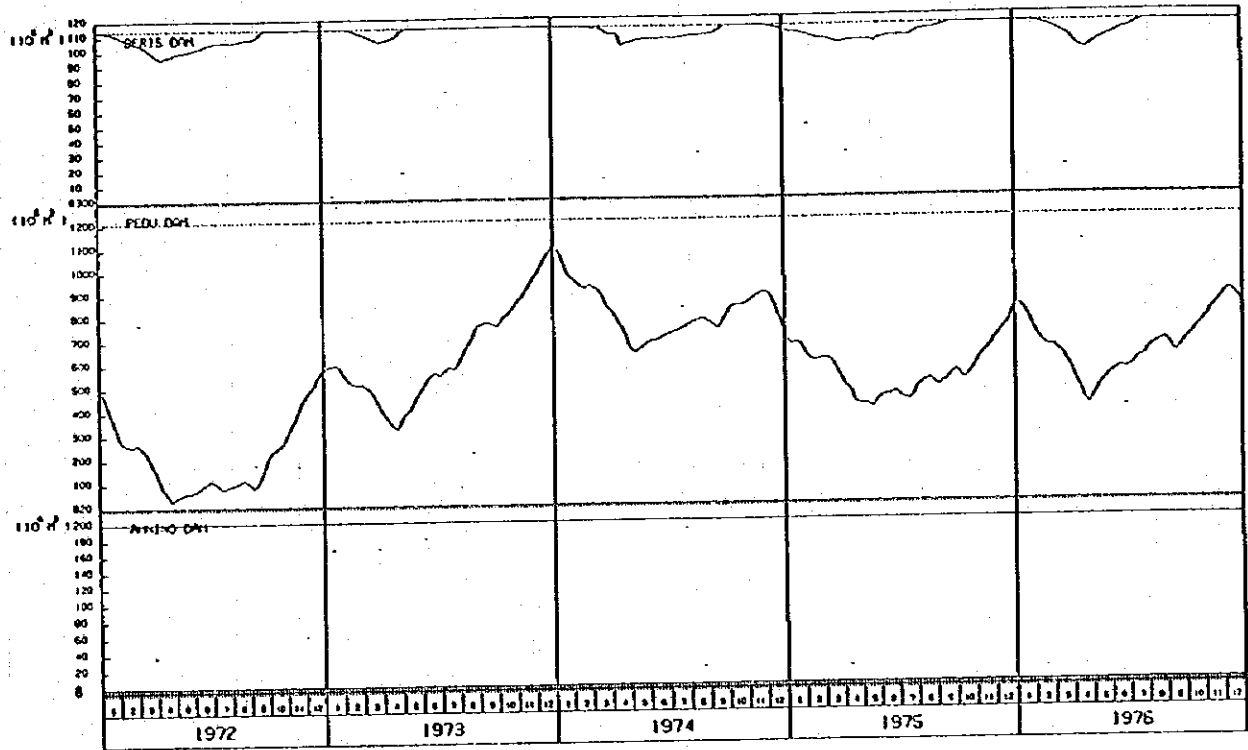


COMPREHENSIVE MANAGEMENT PLAN OF
MUDA RIVER BASIN

JAPAN INTERNATIONAL COOPERATION AGENCY

FIG.III. 4.4.1 RESERVOIR STORAGE MOVEMENT OF
OBJECTIVE DAMS (IN CASE OF ONLY
BERIS DAM CONSTRUCTED)

(1/3)

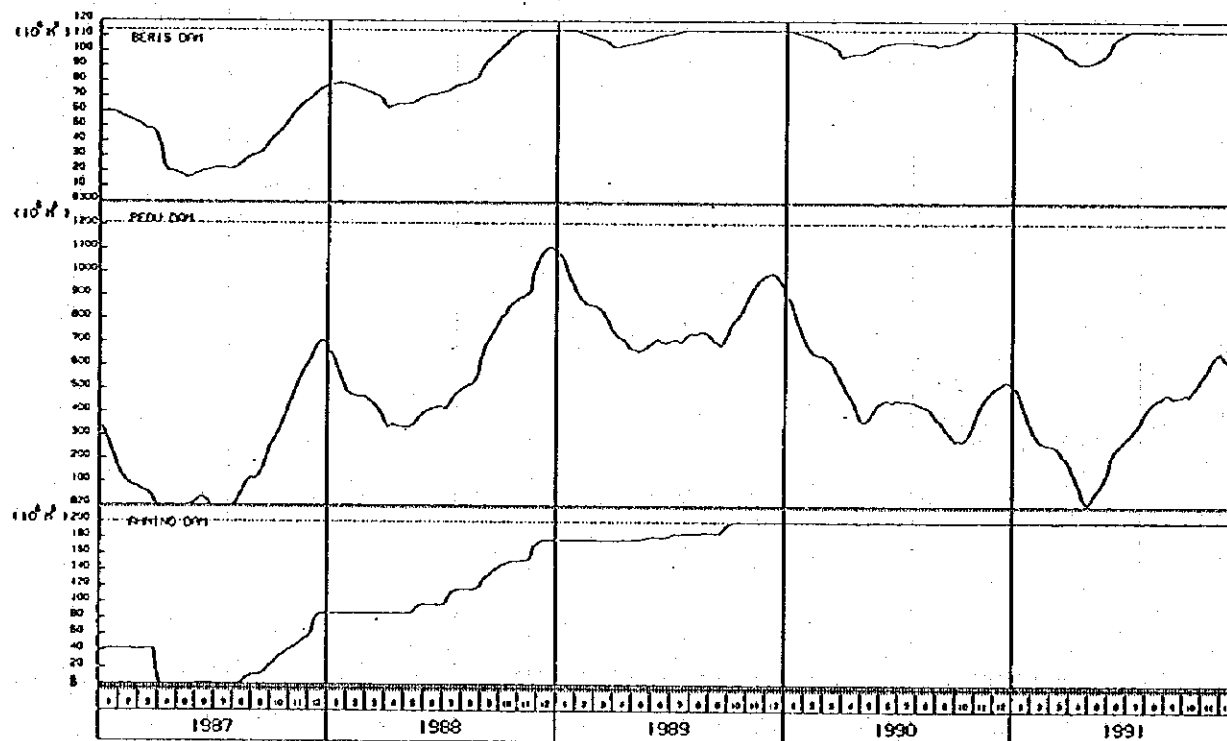
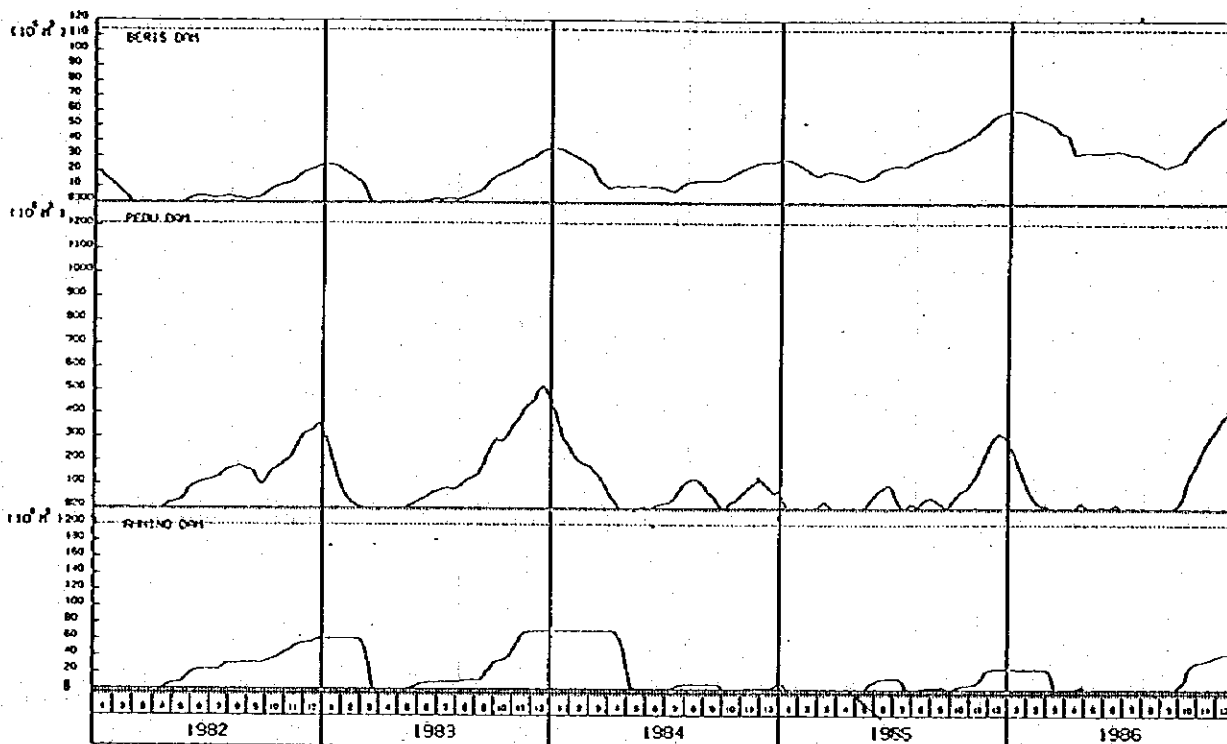


COMPREHENSIVE MANAGEMENT PLAN OF
MUDA RIVER BASIN

JAPAN INTERNATIONAL COOPERATION AGENCY

FIG.III. 4.4.1 RESERVOIR STORAGE MOVEMENT OF
OBJECTIVE DAMS (IN CASE OF ONLY
BERIS DAM CONSTRUCTED)

(2/3)

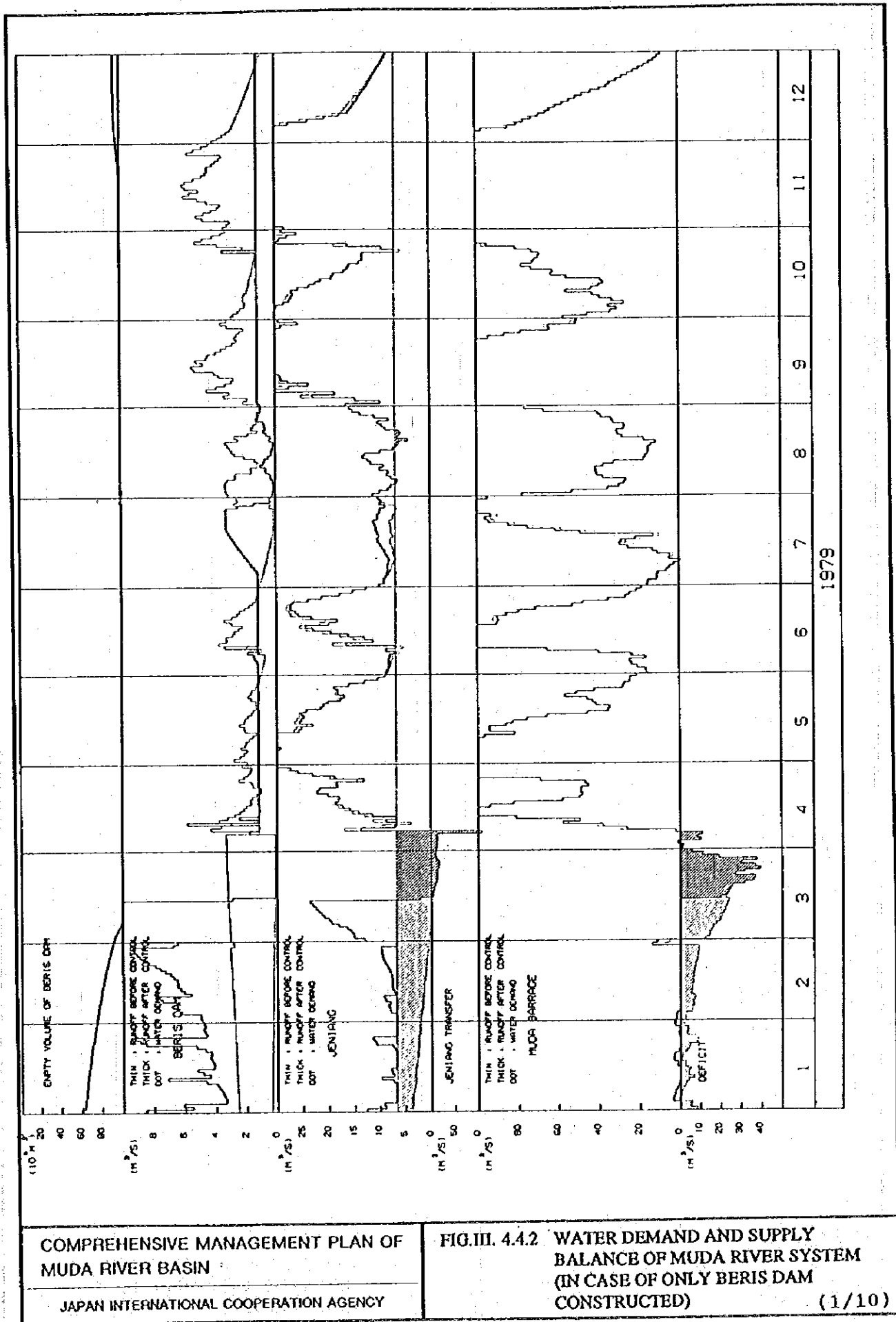


COMPREHENSIVE MANAGEMENT PLAN OF
MUDA RIVER BASIN

JAPAN INTERNATIONAL COOPERATION AGENCY

FIG.III. 4.4.1 RESERVOIR STORAGE MOVEMENT OF
OBJECTIVE DAMS (IN CASE OF ONLY
BERIS DAM CONSTRUCTED)

(3/3)

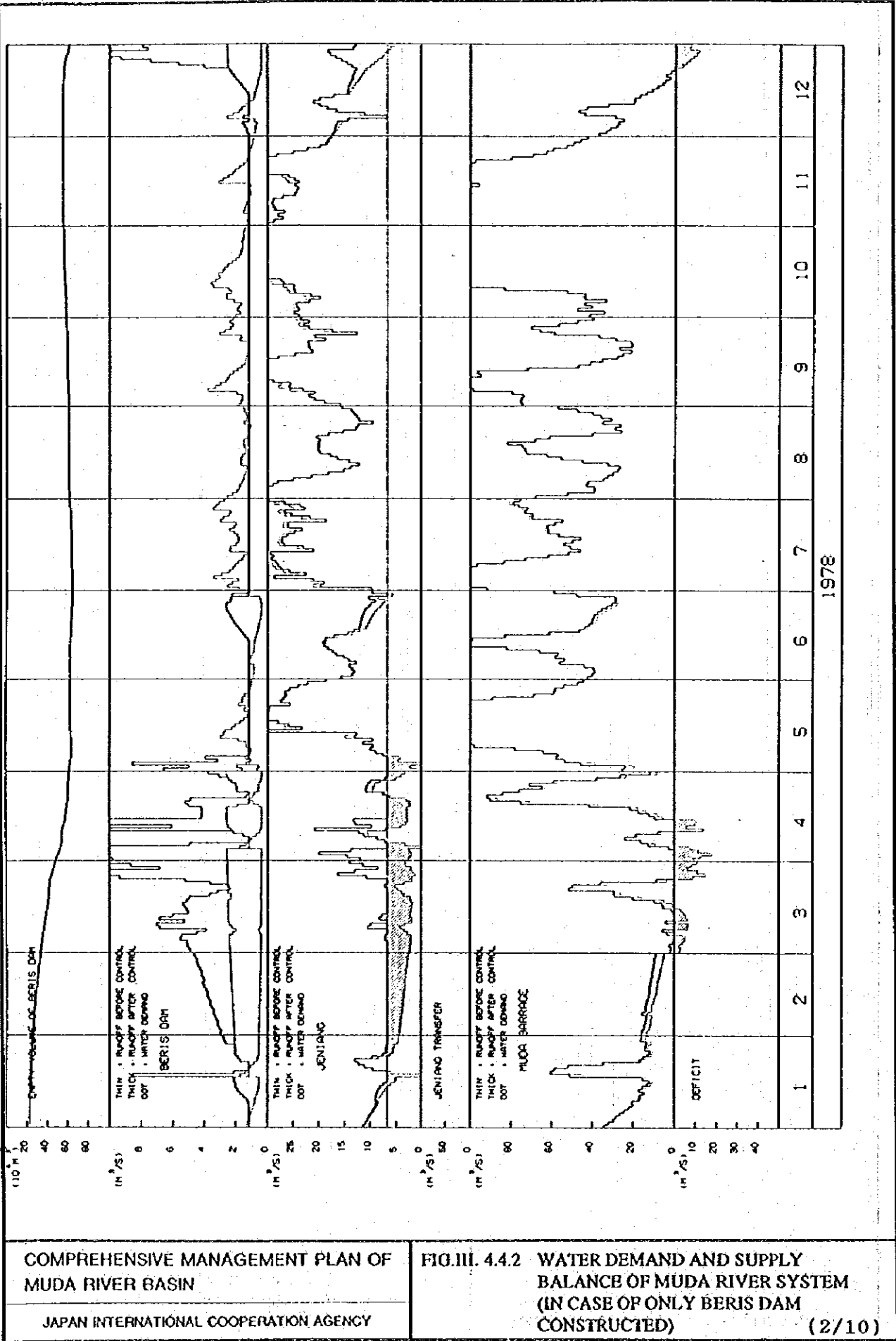


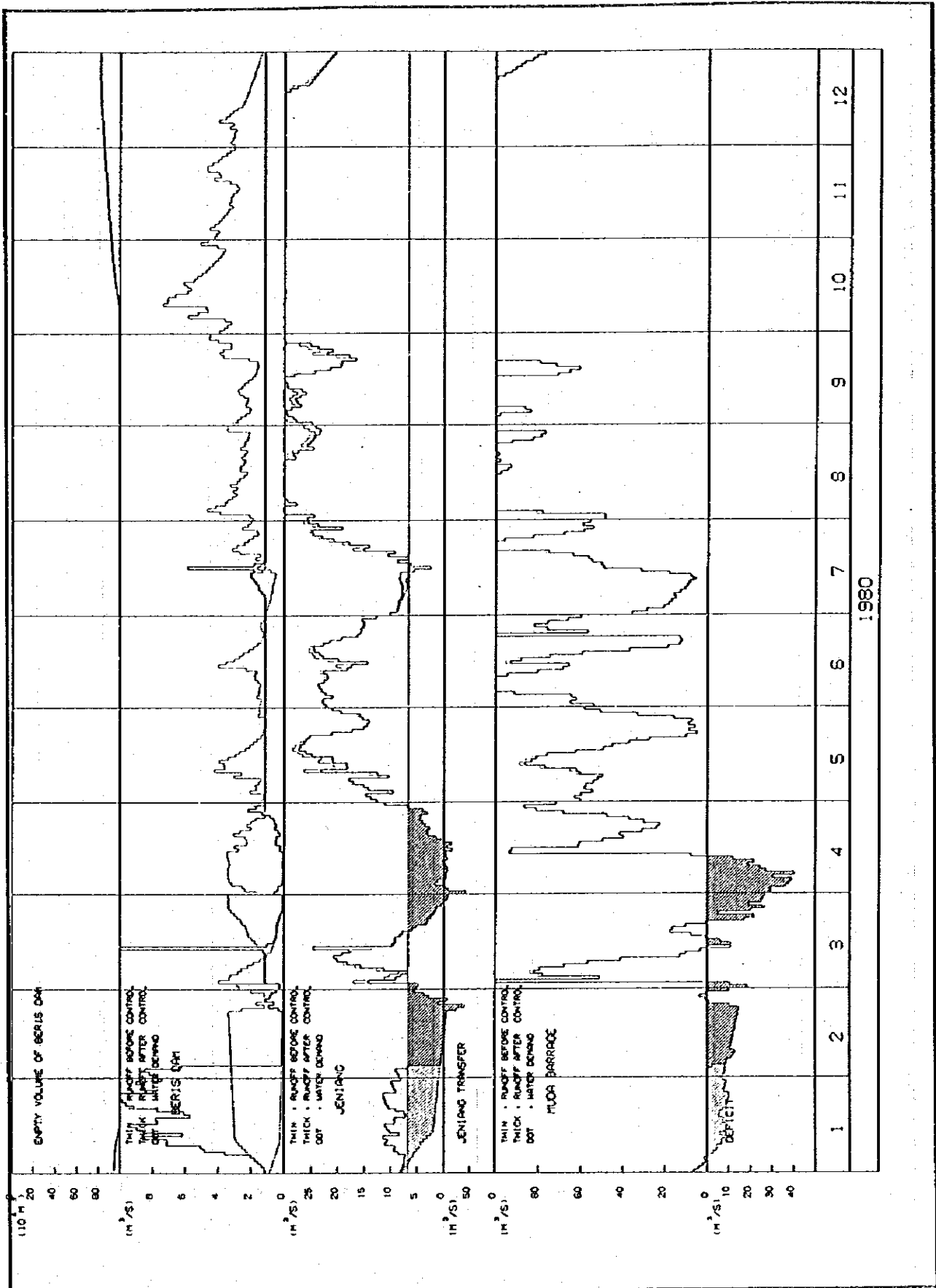
COMPREHENSIVE MANAGEMENT PLAN OF
MUDA RIVER BASIN

JAPAN INTERNATIONAL COOPERATION AGENCY

FIG.III. 4.4.2 WATER DEMAND AND SUPPLY
BALANCE OF MUDA RIVER SYSTEM
(IN CASE OF ONLY BERIS DAM
CONSTRUCTED)

(1/10)



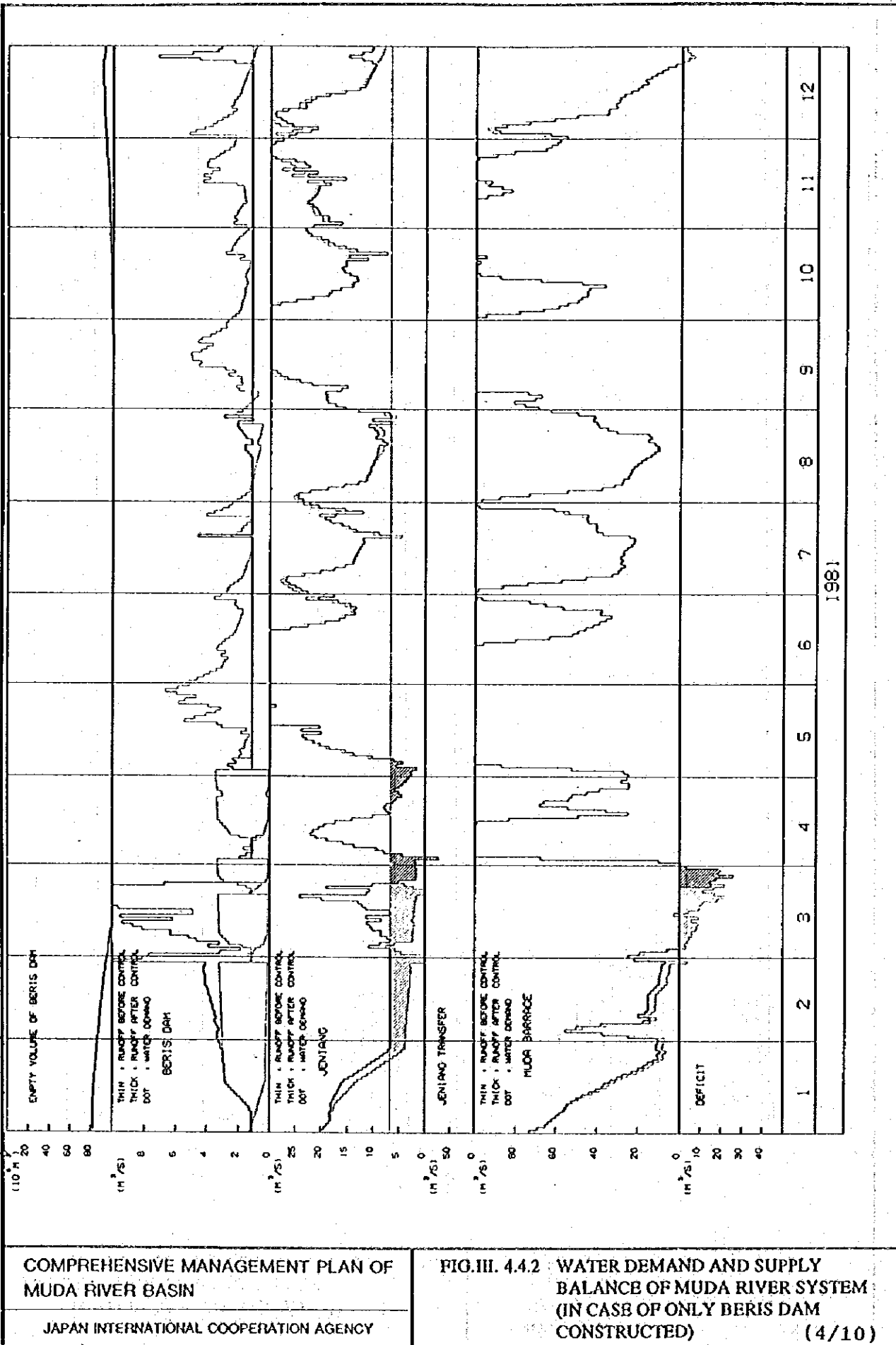


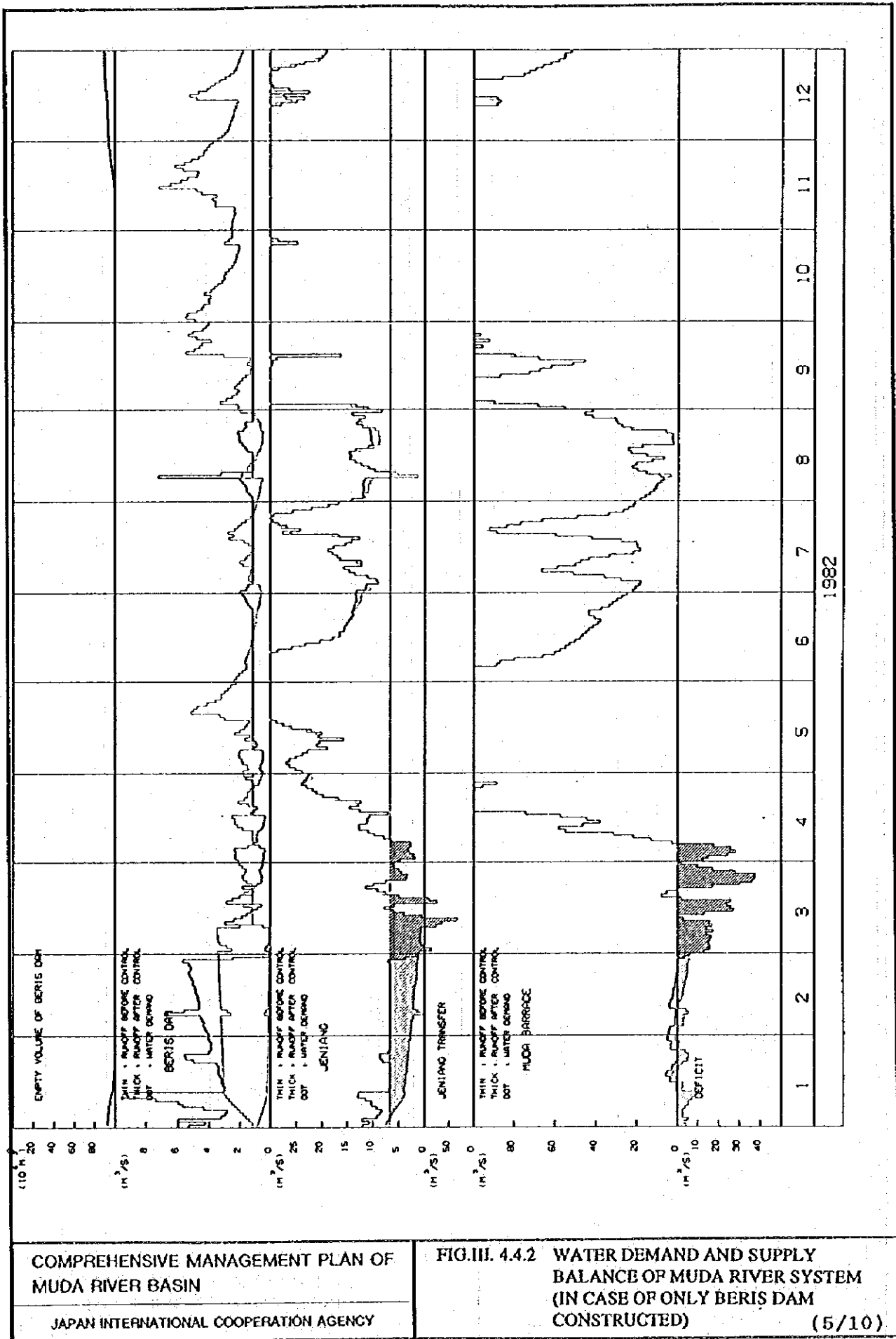
COMPREHENSIVE MANAGEMENT PLAN OF
MUDA RIVER BASIN

JAPAN INTERNATIONAL COOPERATION AGENCY

FIG.III. 4.4.2 WATER DEMAND AND SUPPLY
BALANCE OF MUDA RIVER SYSTEM
(IN CASE OF ONLY BERIS DAM
CONSTRUCTED)

(3/10)

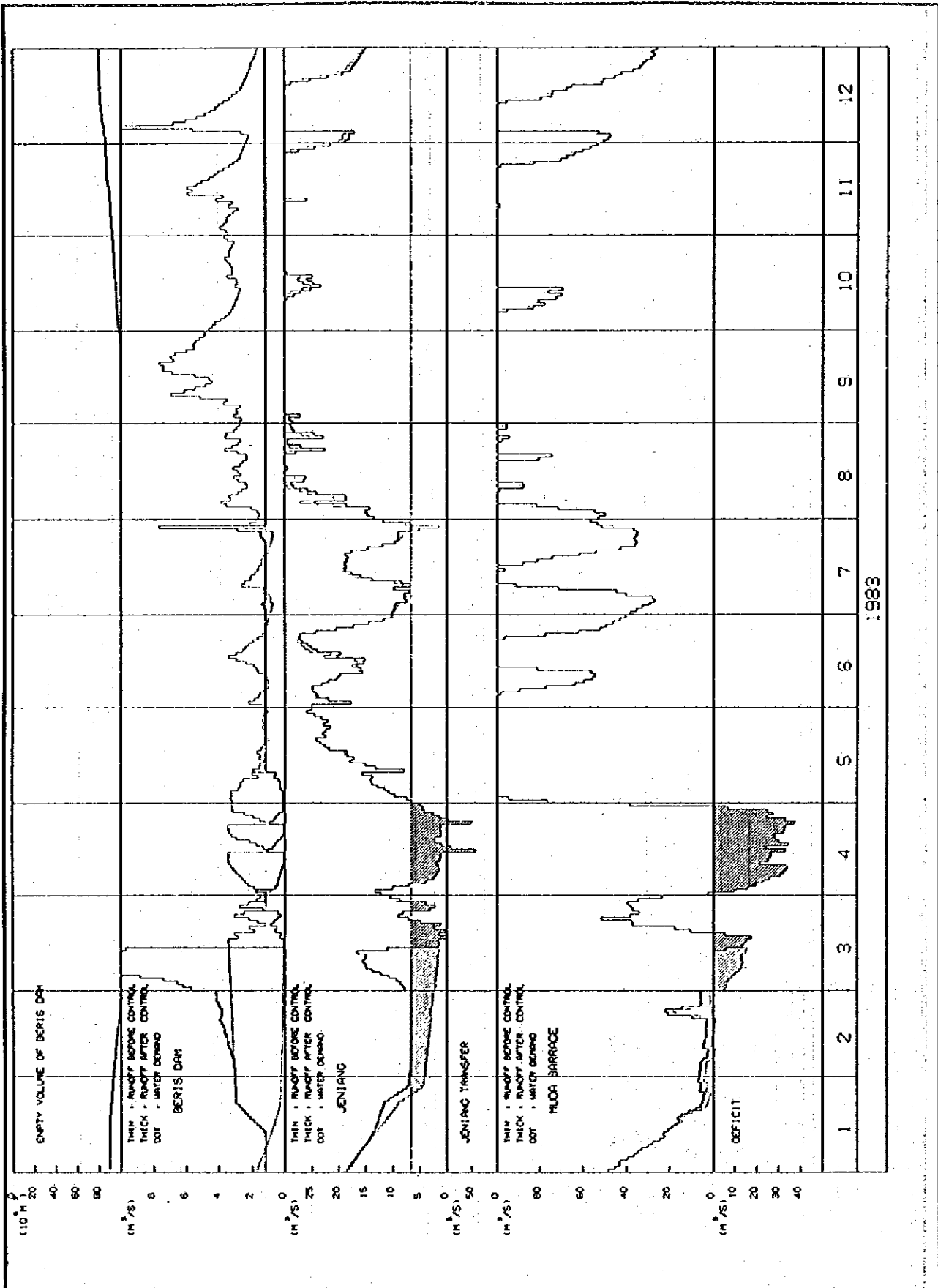




COMPREHENSIVE MANAGEMENT PLAN OF
MUDA RIVER BASIN

JAPAN INTERNATIONAL COOPERATION AGENCY

FIG.III. 4.4.2 WATER DEMAND AND SUPPLY
BALANCE OF MUDA RIVER SYSTEM
(IN CASE OF ONLY BERIS DAM
CONSTRUCTED) (5/10)



1983

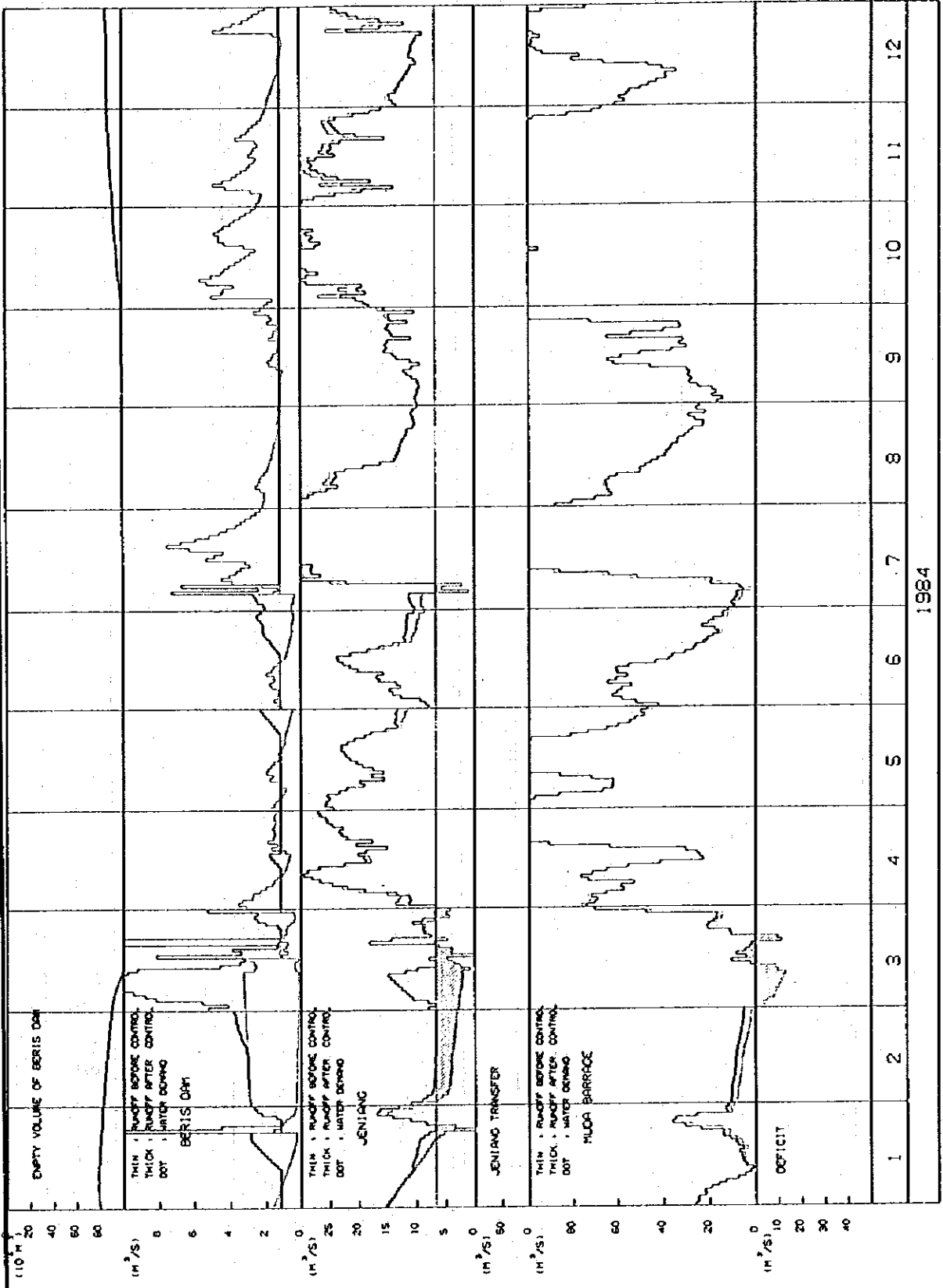
1 2 3 4 5 6 7 8 9 10 11 12

COMPREHENSIVE MANAGEMENT PLAN OF
MUDA RIVER BASIN

JAPAN INTERNATIONAL COOPERATION AGENCY

FIG.III. 4.4.2 WATER DEMAND AND SUPPLY
BALANCE OF MUDA RIVER SYSTEM
(IN CASE OF ONLY BERIS DAM
CONSTRUCTED)

(6/10)



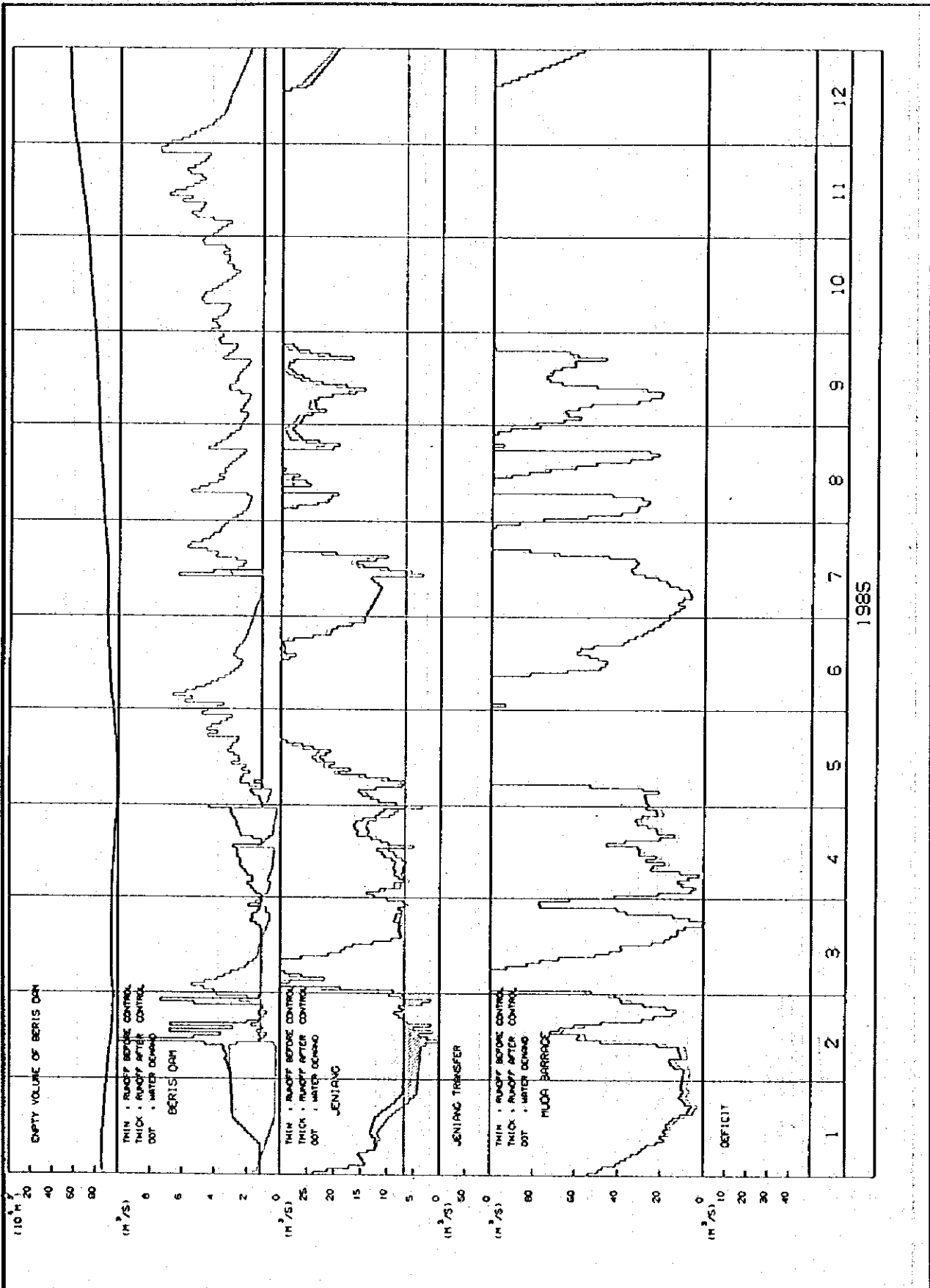
1984

COMPREHENSIVE MANAGEMENT PLAN OF MUDA RIVER BASIN

JAPAN INTERNATIONAL COOPERATION AGENCY

FIG.III. 4.4.2 WATER DEMAND AND SUPPLY BALANCE OF MUDA RIVER SYSTEM (IN CASE OF ONLY BERIS DAM CONSTRUCTED)

(7/10)

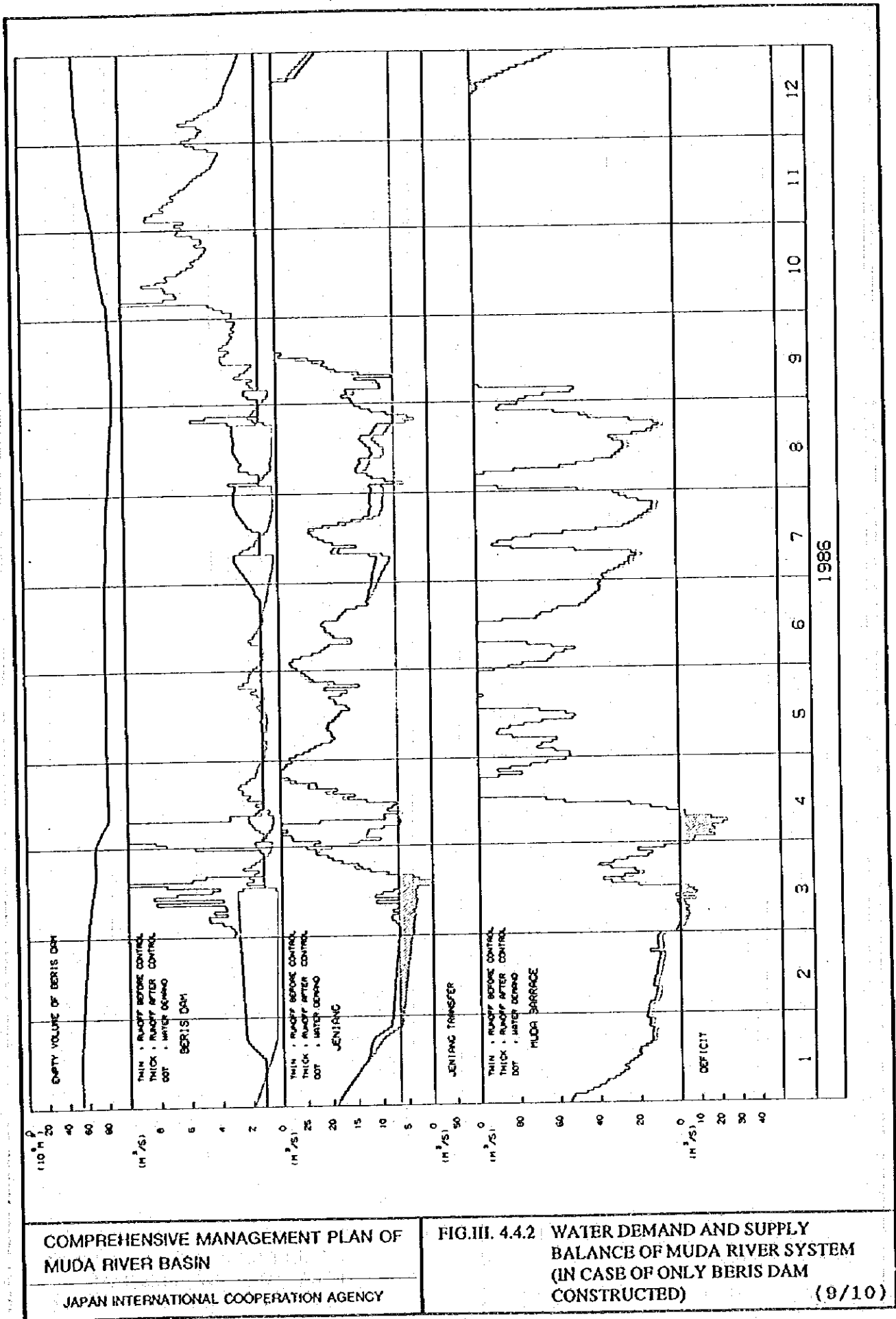


COMPREHENSIVE MANAGEMENT PLAN OF
MUDA RIVER BASIN

JAPAN INTERNATIONAL COOPERATION AGENCY

FIG.III. 4.4.2 WATER DEMAND AND SUPPLY
BALANCE OF MUDA RIVER SYSTEM
(IN CASE OF ONLY BERIS DAM
CONSTRUCTED)

(8/10)

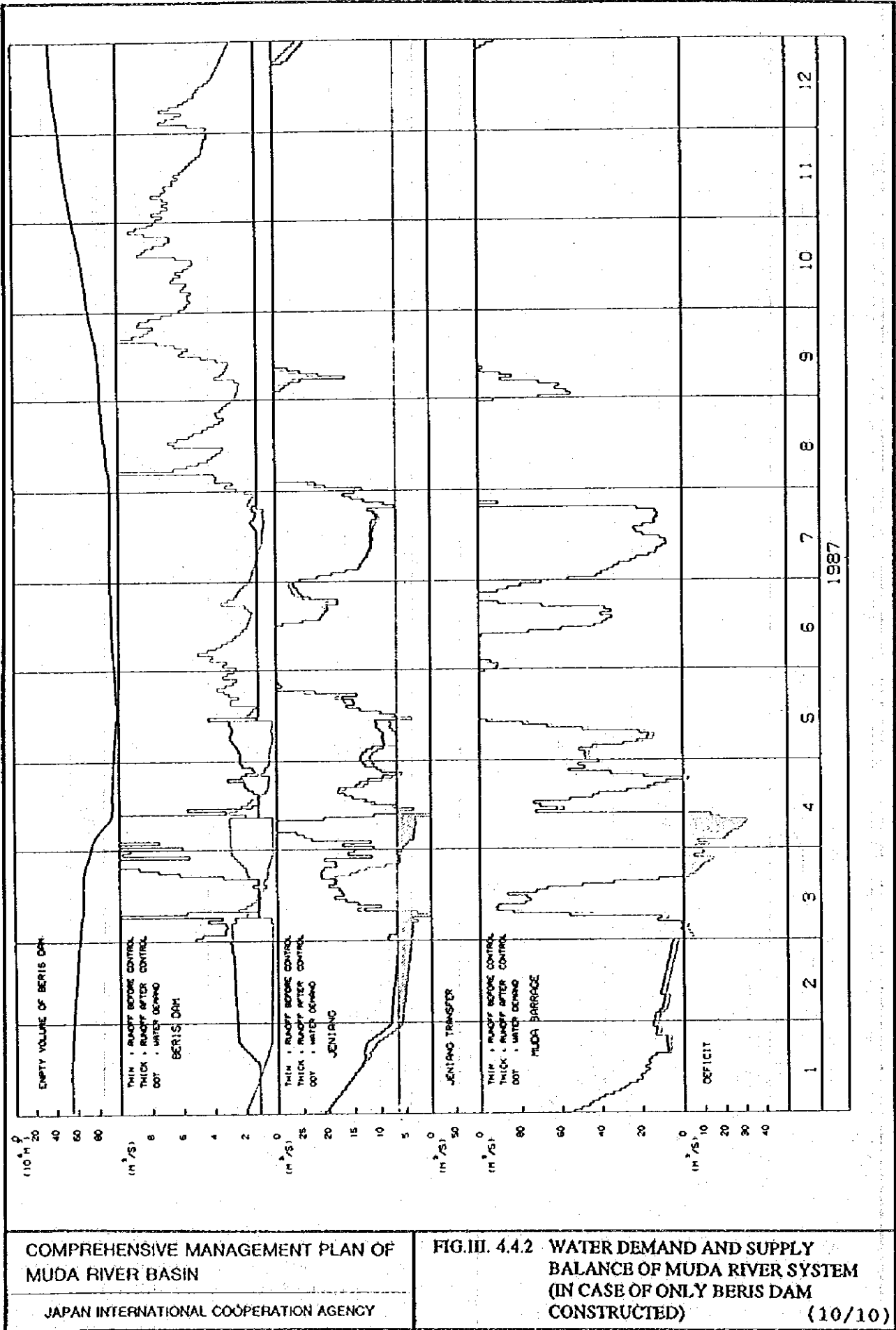


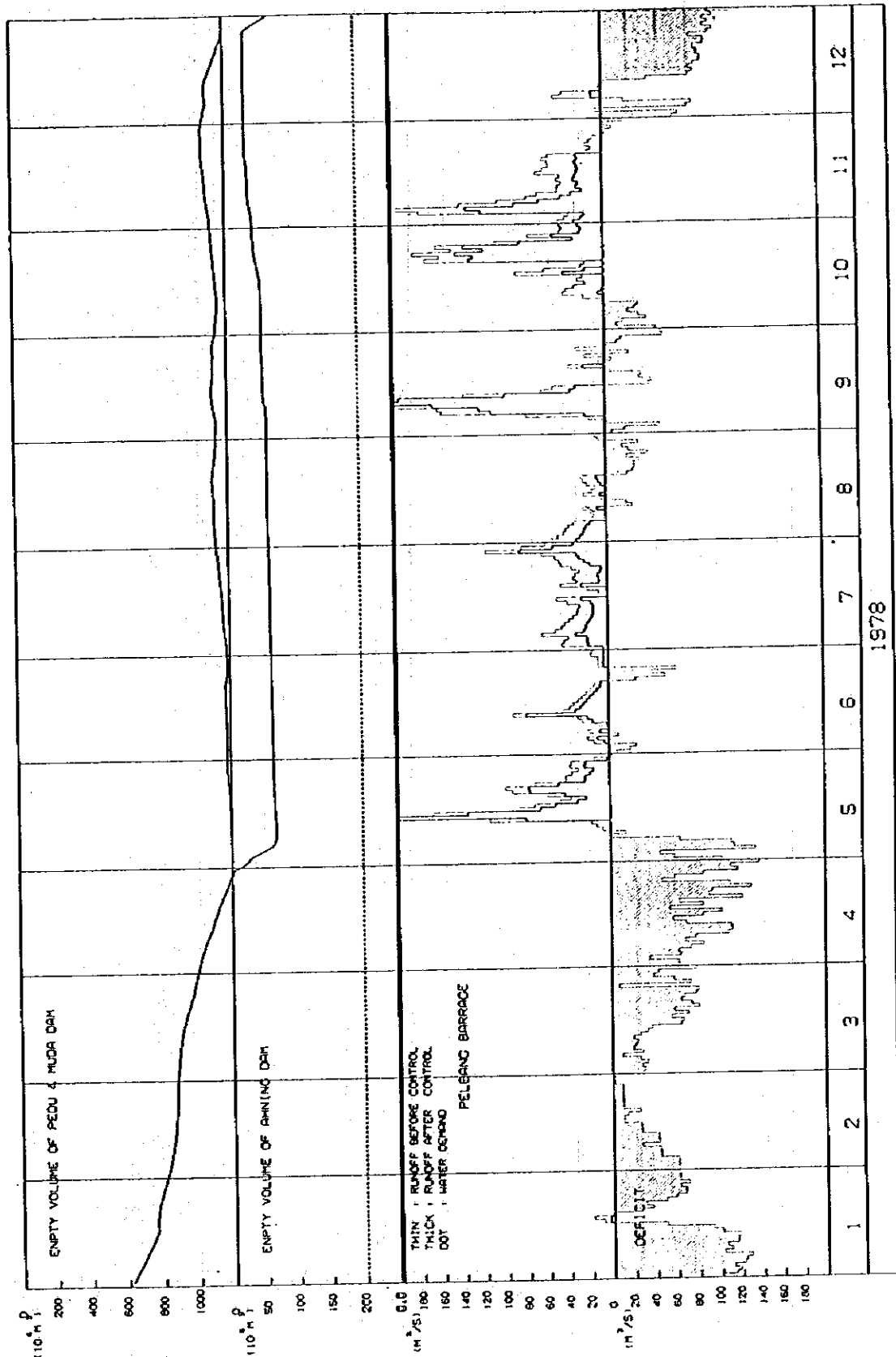
COMPREHENSIVE MANAGEMENT PLAN OF
MUDA RIVER BASIN

JAPAN INTERNATIONAL COOPERATION AGENCY

FIG.III. 4.4.2 WATER DEMAND AND SUPPLY
BALANCE OF MUDA RIVER SYSTEM
(IN CASE OF ONLY BERIS DAM
CONSTRUCTED)

(9/10)



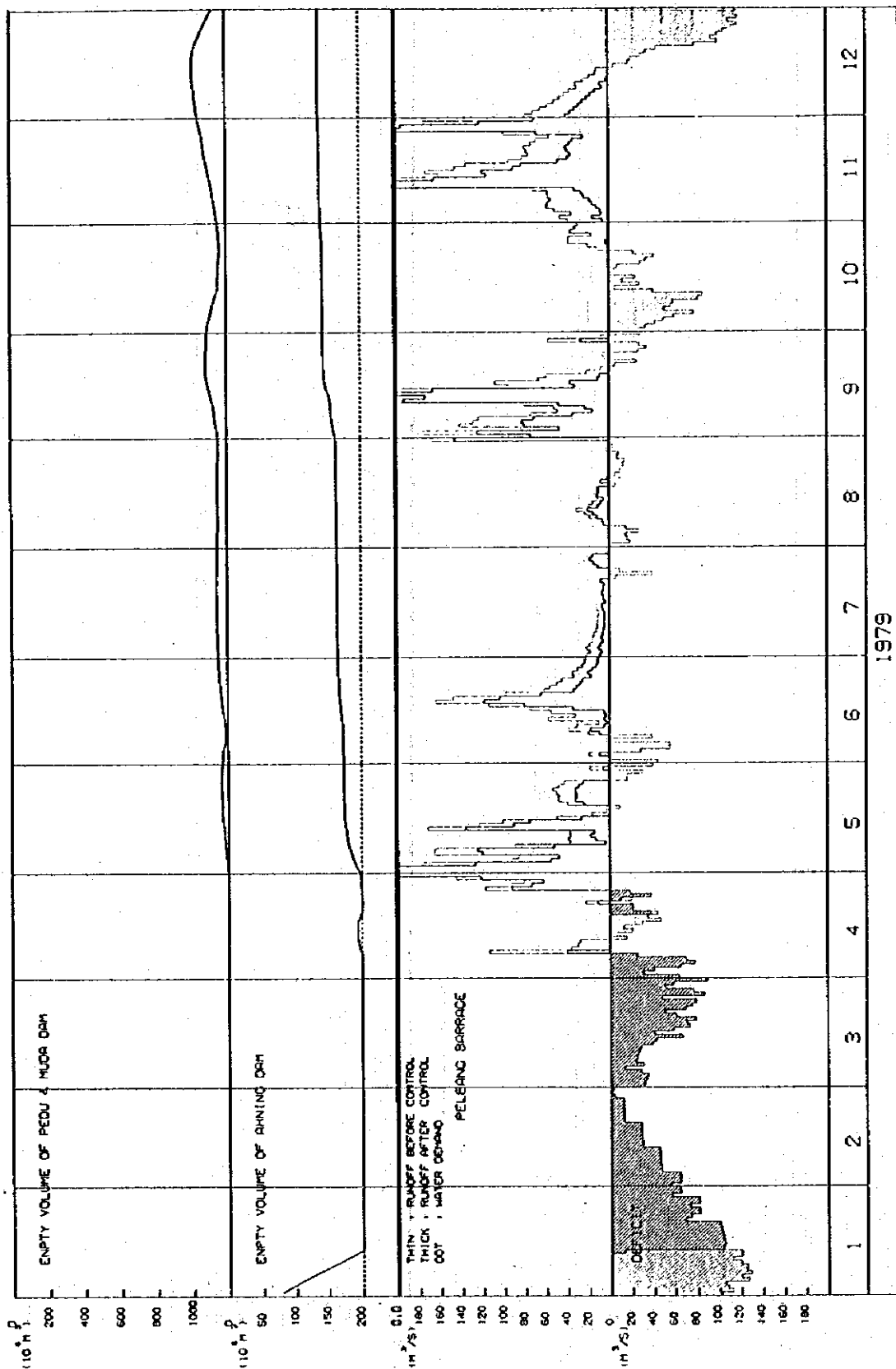


COMPREHENSIVE MANAGEMENT PLAN OF
MUDA RIVER BASIN

JAPAN INTERNATIONAL COOPERATION AGENCY

FIG.III. 4.4.3 WATER DEMAND AND SUPPLY
BALANCE OF KEDAH RIVER SYSTEM
(IN CASE OF ONLY BERIS DAM
CONSTRUCTED)

(1/10)



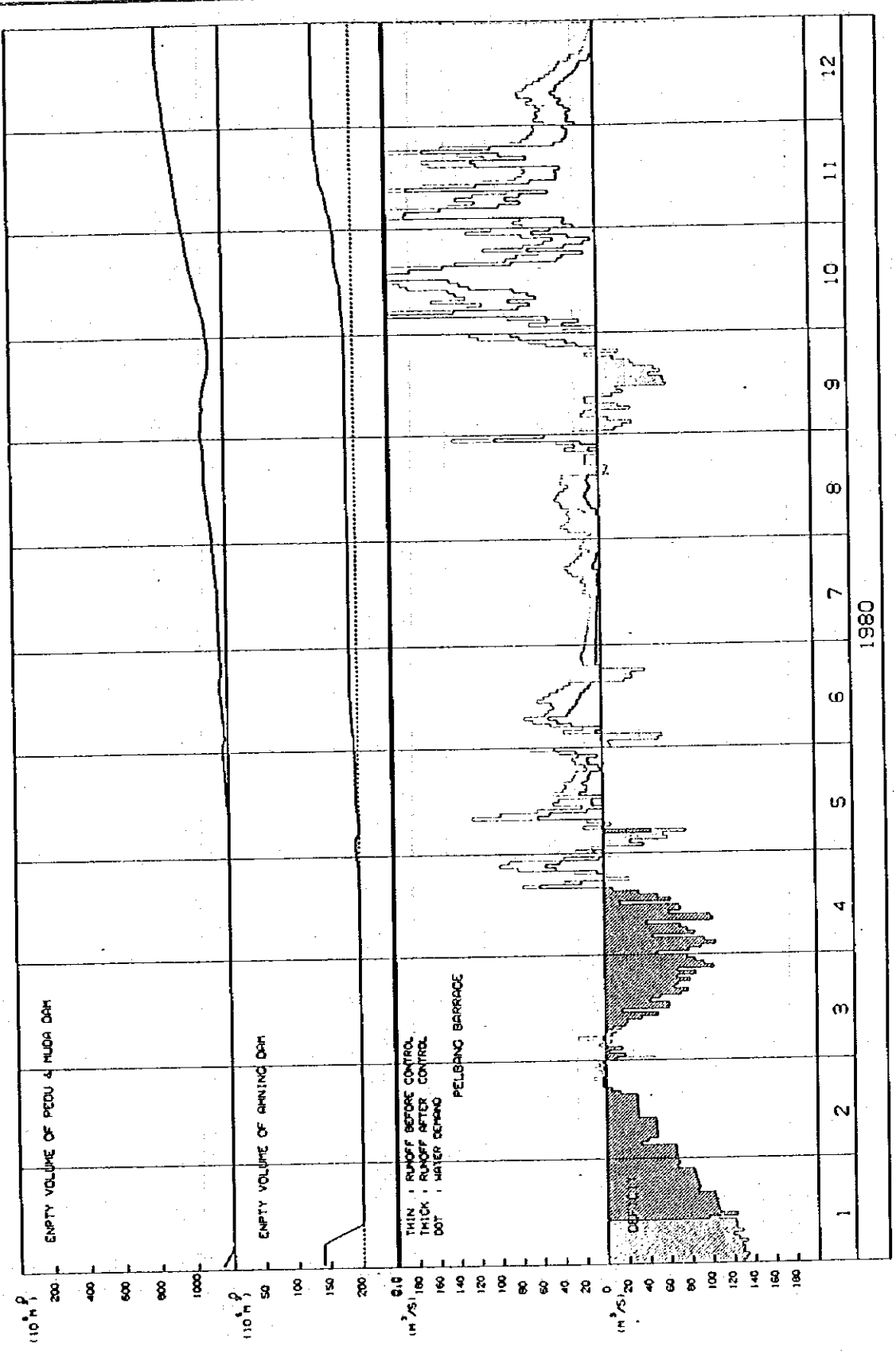
1979

COMPREHENSIVE MANAGEMENT PLAN OF
MUDA RIVER BASIN

JAPAN INTERNATIONAL COOPERATION AGENCY

FIG. III. 4.4.3 WATER DEMAND AND SUPPLY
BALANCE OF KEDAH RIVER SYSTEM
(IN CASE OF ONLY BERIS DAM
CONSTRUCTED)

(2/10)

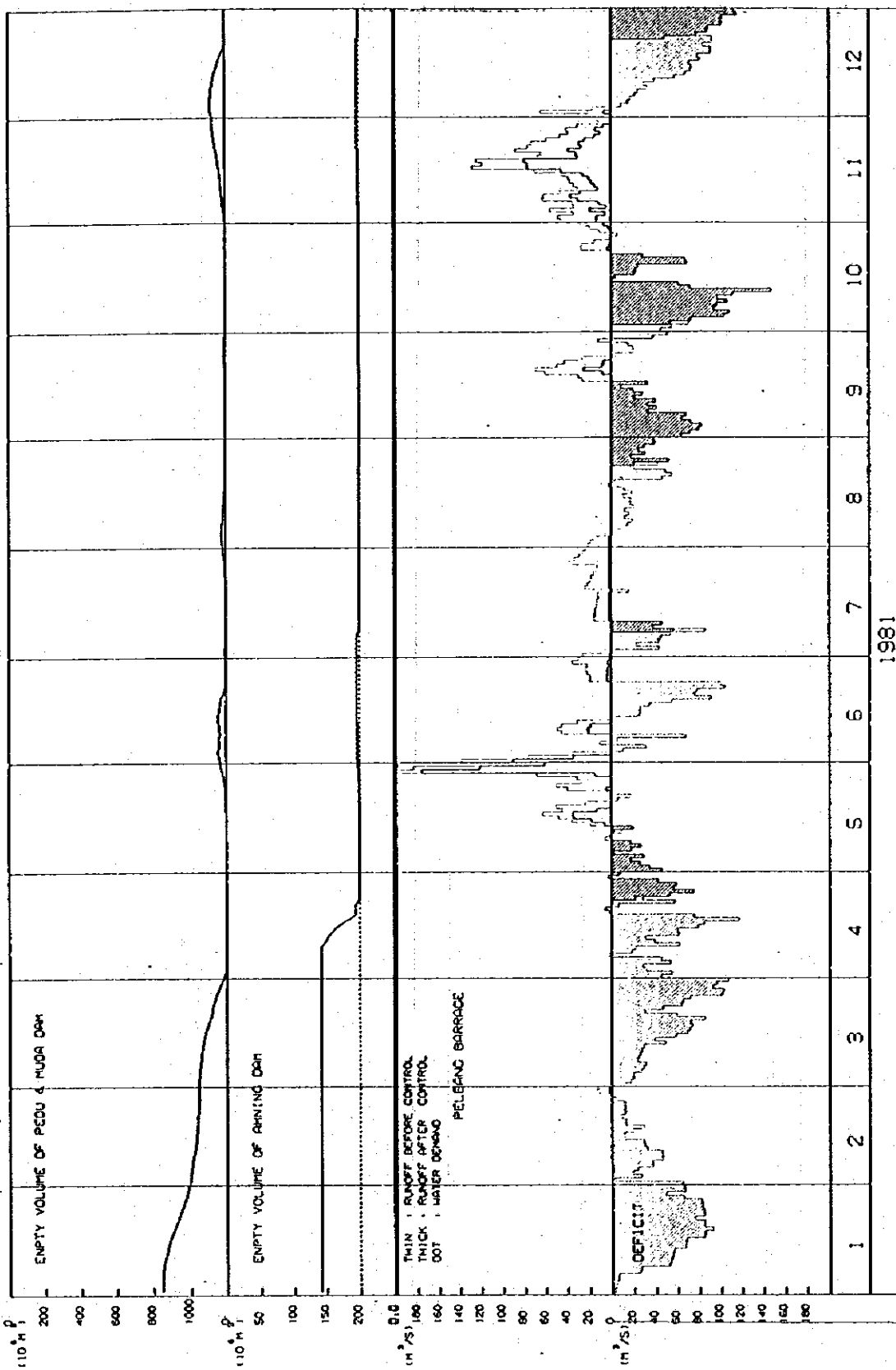


COMPREHENSIVE MANAGEMENT PLAN OF
MUDA RIVER BASIN

JAPAN INTERNATIONAL COOPERATION AGENCY

FIG. III. 4.4.3 WATER DEMAND AND SUPPLY
BALANCE OF KEDAH RIVER SYSTEM
(IN CASE OF ONLY BERIS DAM
CONSTRUCTED)

(3/10)

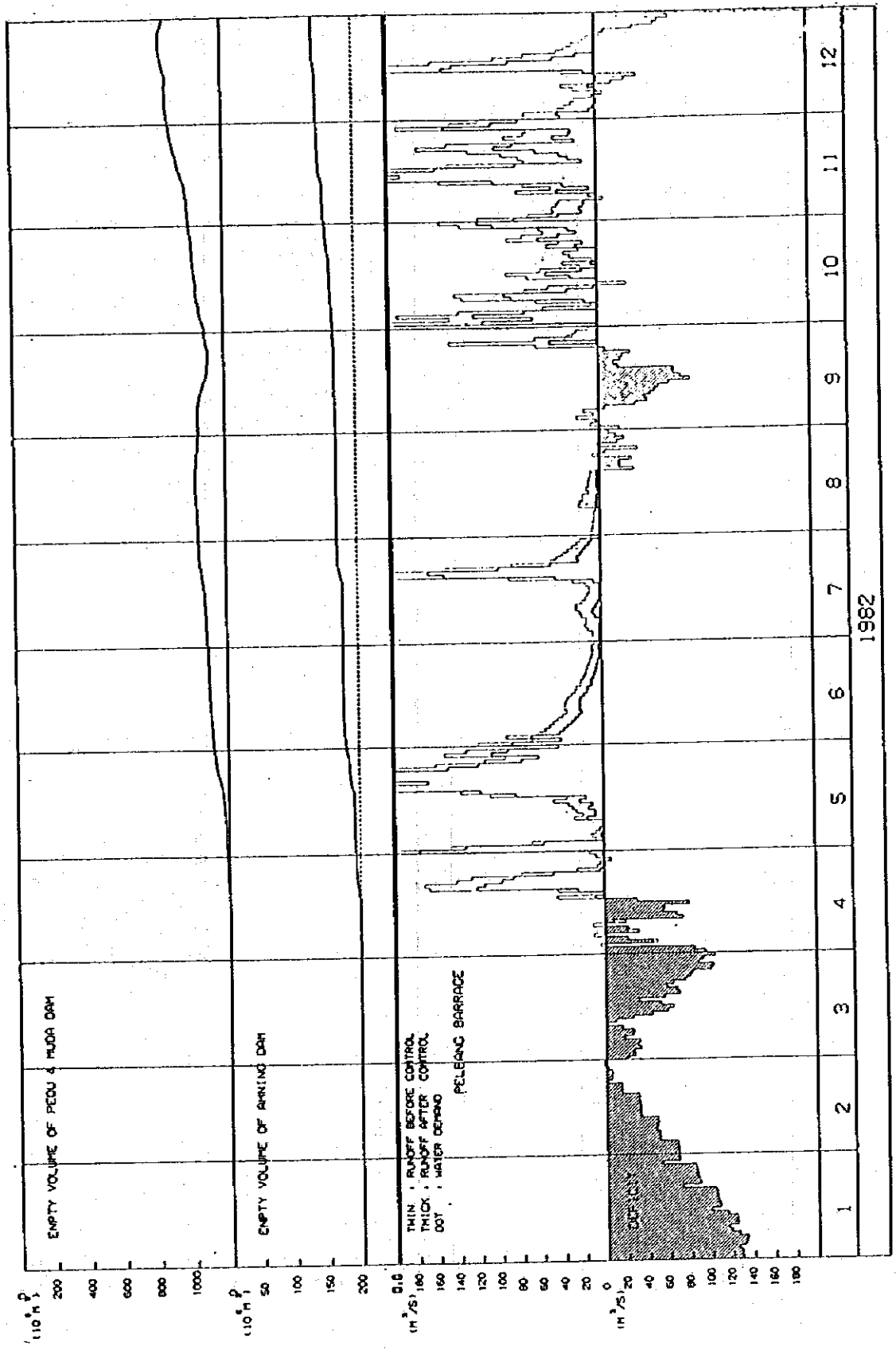


COMPREHENSIVE MANAGEMENT PLAN OF
 MUDA RIVER BASIN

JAPAN INTERNATIONAL COOPERATION AGENCY

FIG.III, 4.4.3 WATER DEMAND AND SUPPLY
 BALANCE OF KEDAH RIVER SYSTEM
 (IN CASE OF ONLY BERIS DAM
 CONSTRUCTED)

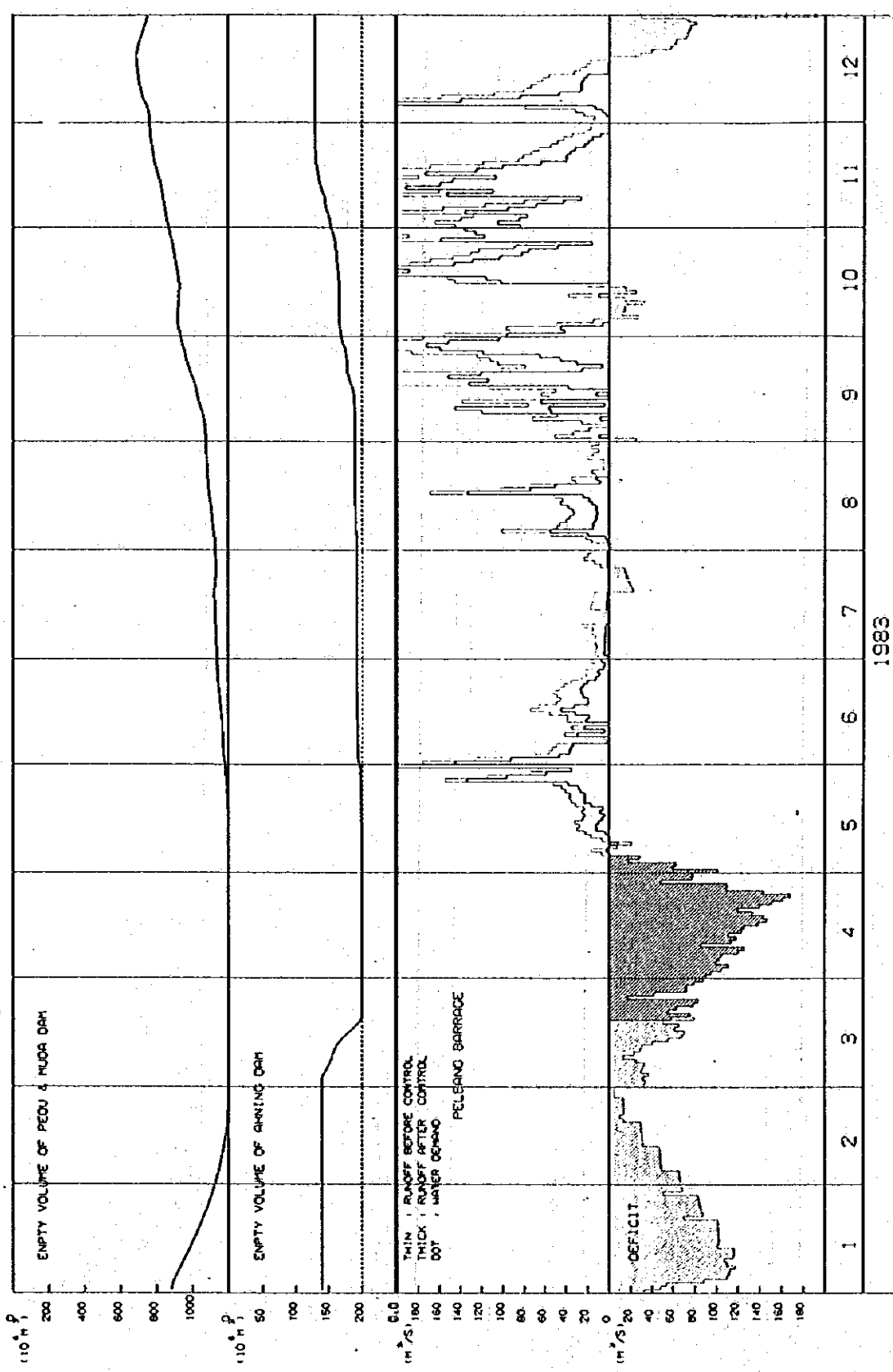
(4/10)



COMPREHENSIVE MANAGEMENT PLAN OF
MUDA RIVER BASIN

JAPAN INTERNATIONAL COOPERATION AGENCY

FIG.III. 4.4.3 WATER DEMAND AND SUPPLY
BALANCE OF KEDAH RIVER SYSTEM
(IN CASE OF ONLY BERIS DAM
CONSTRUCTED) (5/10)



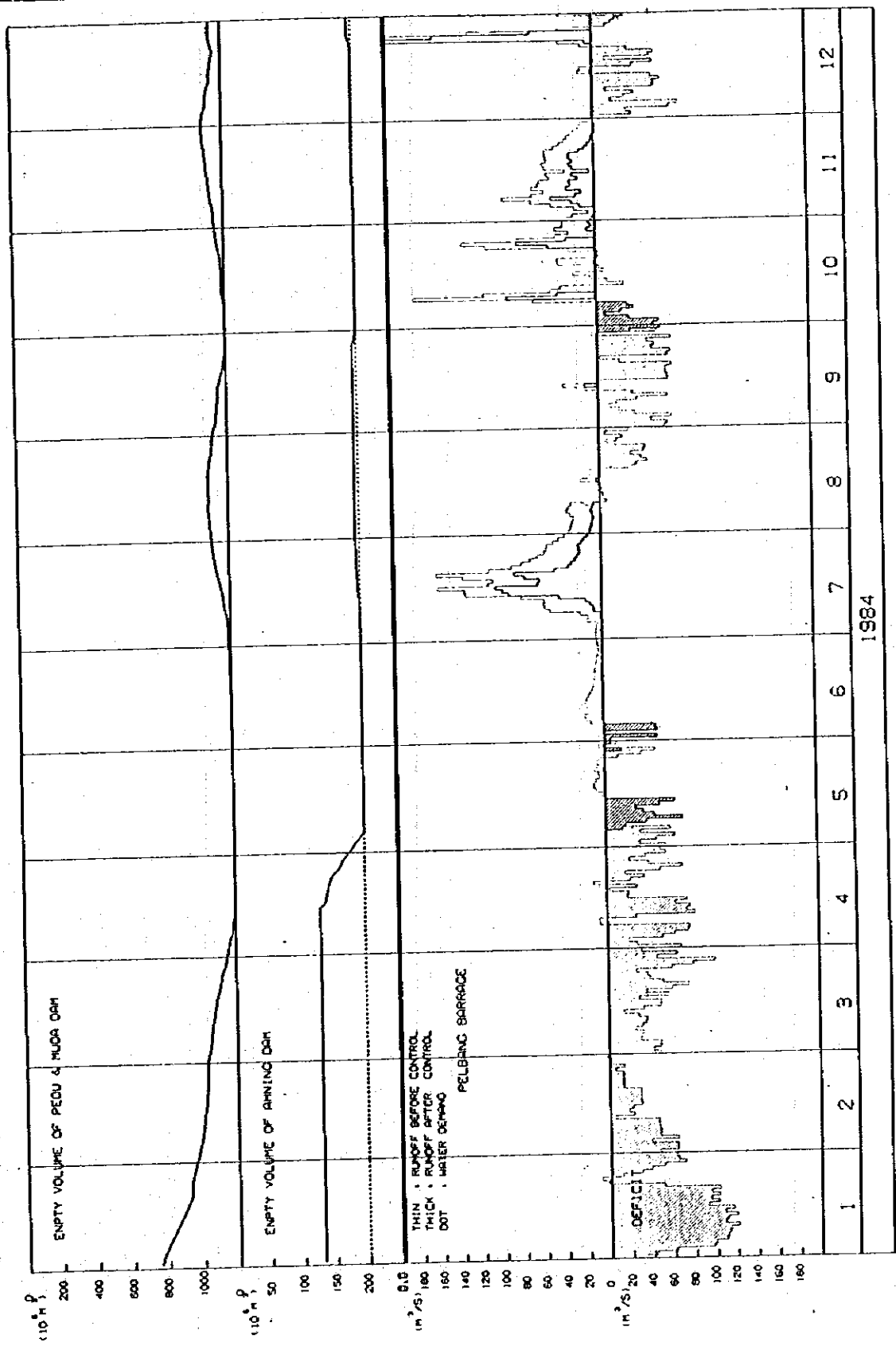
1983

COMPREHENSIVE MANAGEMENT PLAN OF MUDA RIVER BASIN

JAPAN INTERNATIONAL COOPERATION AGENCY

FIG.III. 4.4.3 WATER DEMAND AND SUPPLY BALANCE OF KEDAH RIVER SYSTEM (IN CASE OF ONLY BERIS DAM CONSTRUCTED)

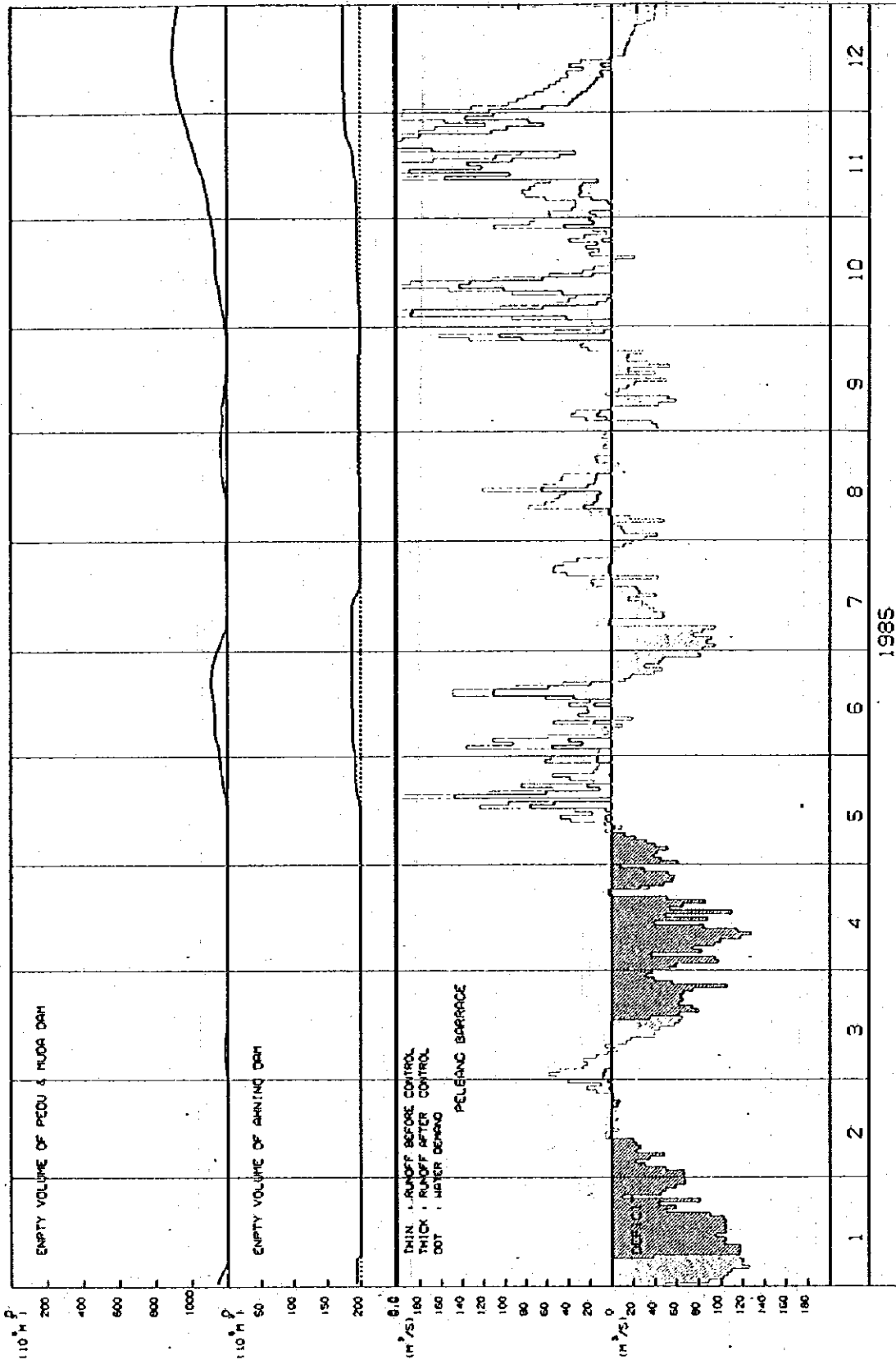
(6/10)



COMPREHENSIVE MANAGEMENT PLAN OF
MUDA RIVER BASIN

JAPAN INTERNATIONAL COOPERATION AGENCY

FIG.III. 4.4.3 WATER DEMAND AND SUPPLY
BALANCE OF KEDAH RIVER SYSTEM
(IN CASE OF ONLY BERIS DAM
CONSTRUCTED) (7/10)



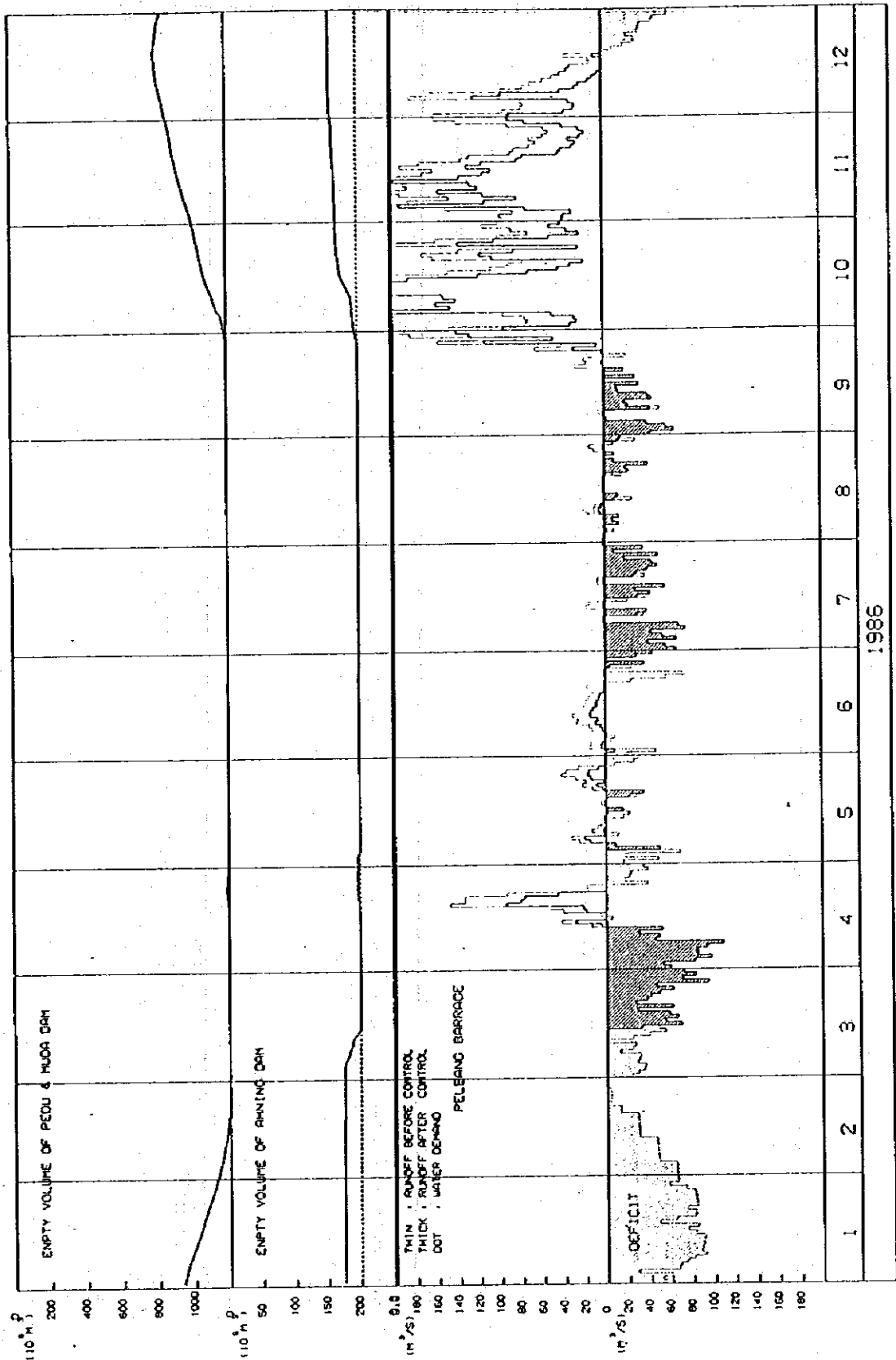
1985

COMPREHENSIVE MANAGEMENT PLAN OF MUDA RIVER BASIN

JAPAN INTERNATIONAL COOPERATION AGENCY

FIG.III. 4.4.3 WATER DEMAND AND SUPPLY BALANCE OF KEDAH RIVER SYSTEM (IN CASE OF ONLY BERIS DAM CONSTRUCTED)

(8/10)

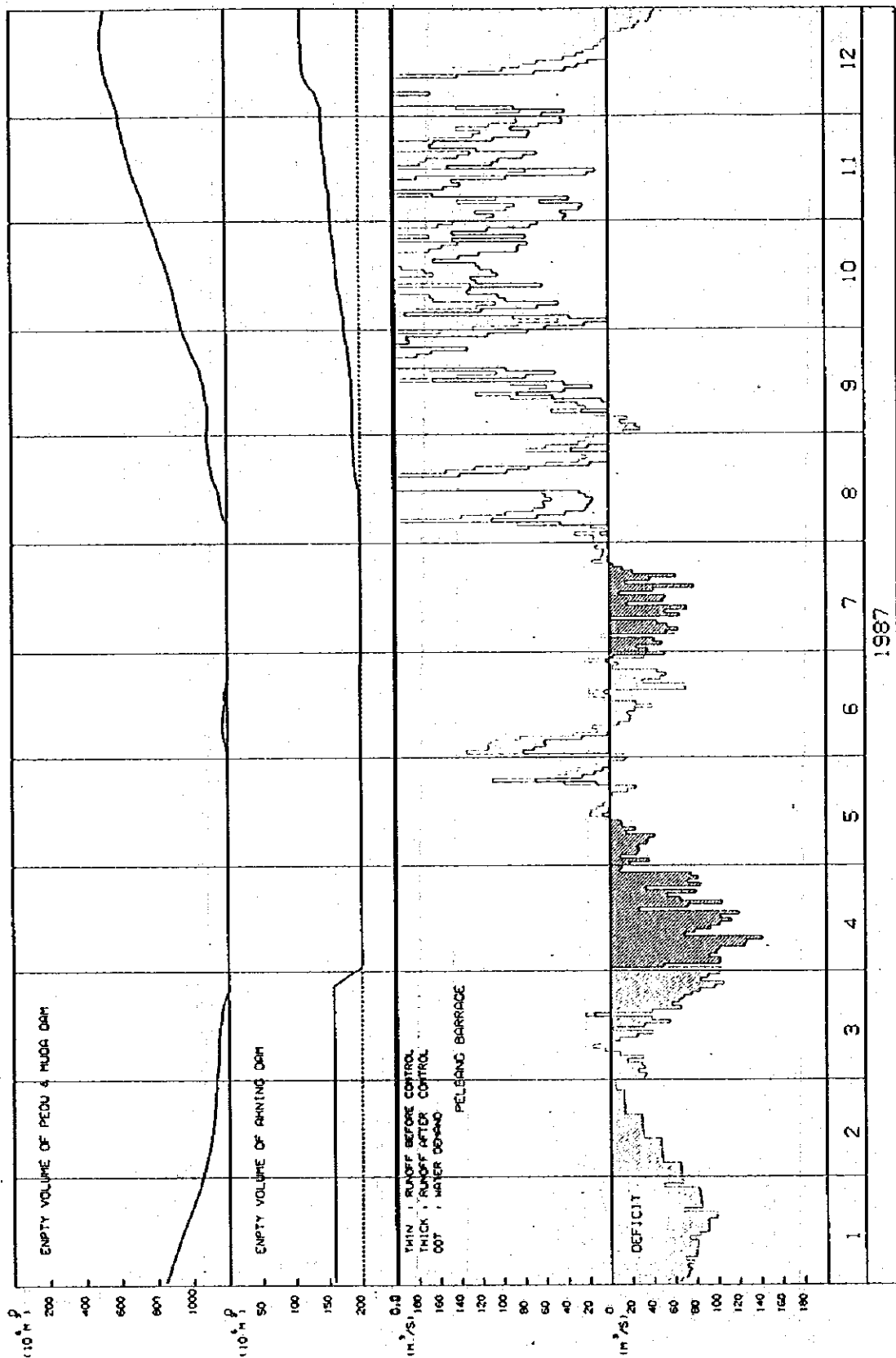


COMPREHENSIVE MANAGEMENT PLAN OF
MUDA RIVER BASIN

JAPAN INTERNATIONAL COÖPERATION AGENCY

FIG.III. 4.4.3 WATER DEMAND AND SUPPLY
BALANCE OF KEDAH RIVER SYSTEM
(IN CASE OF ONLY BERIS DAM
CONSTRUCTED)

(9/10)

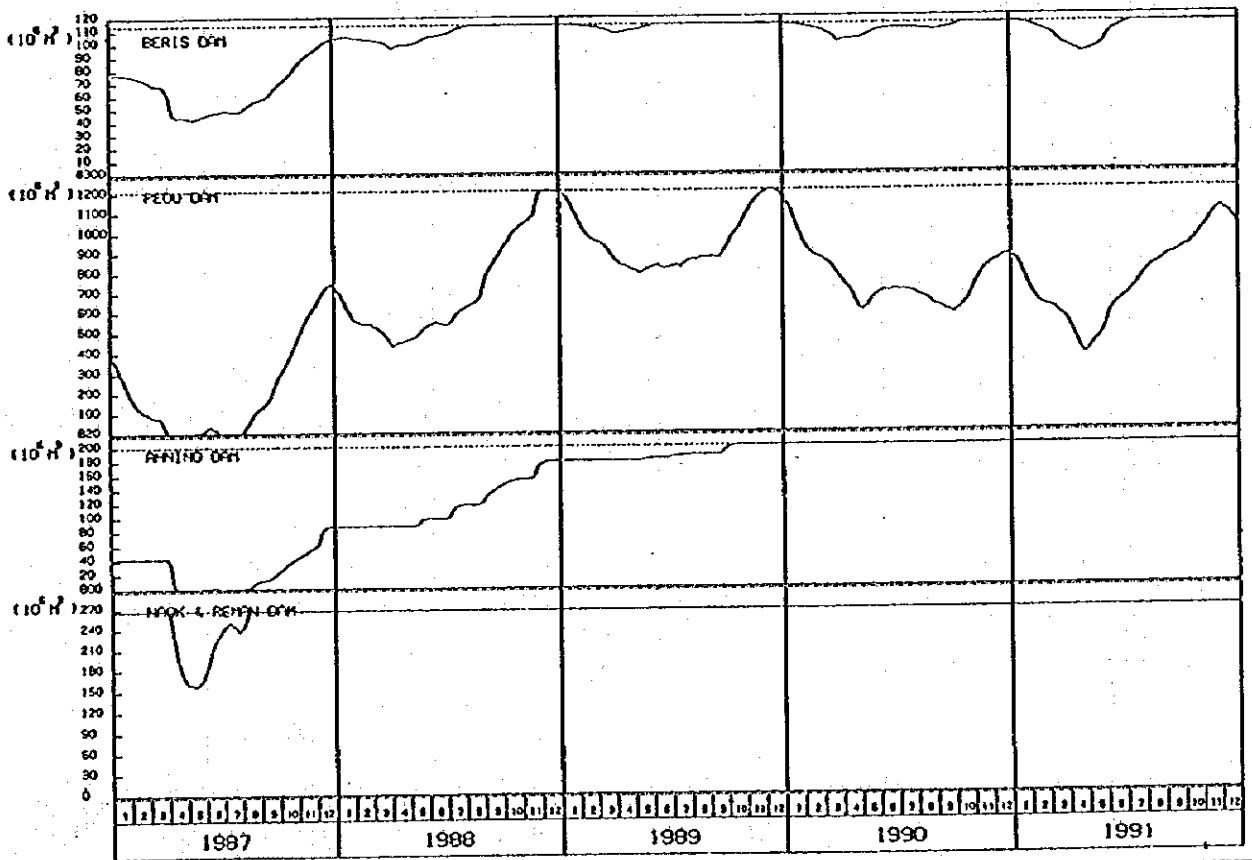
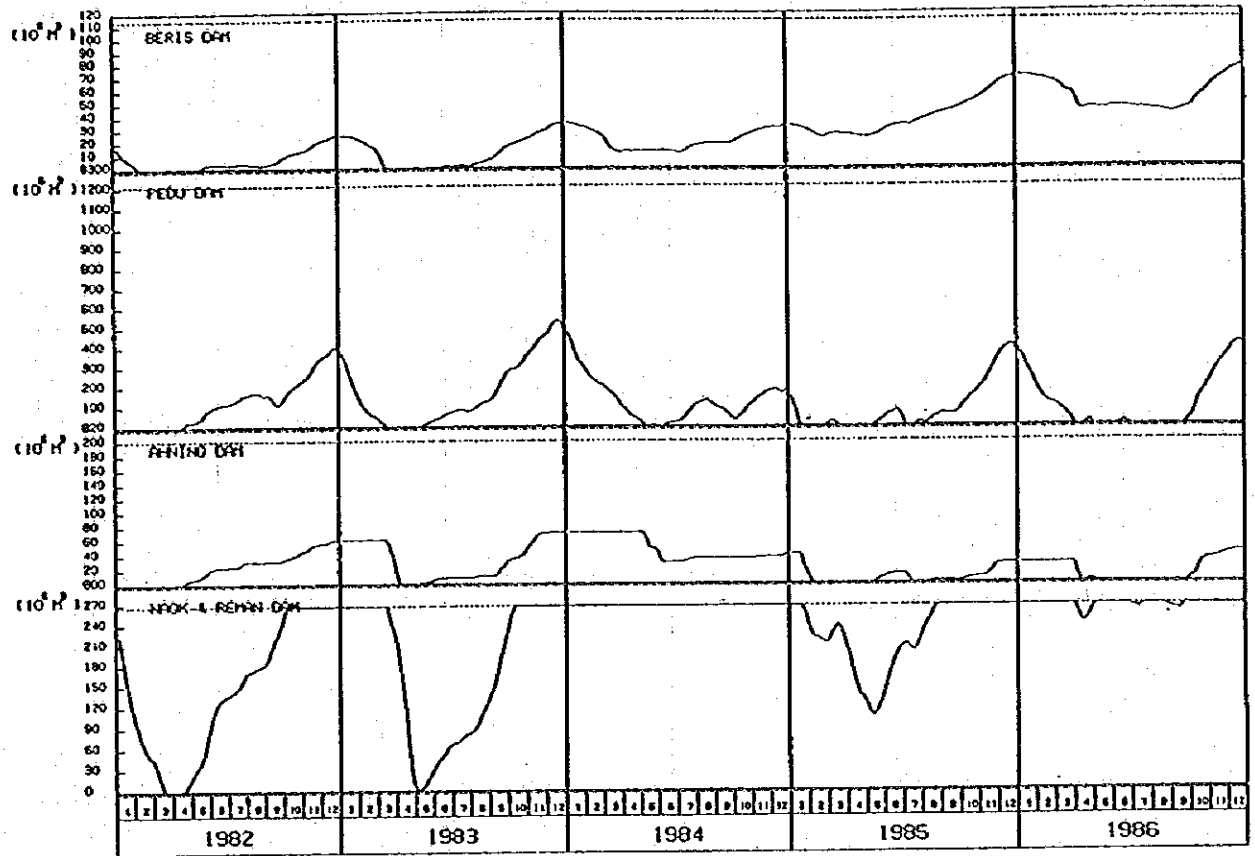


COMPREHENSIVE MANAGEMENT PLAN OF
MUDA RIVER BASIN

JAPAN INTERNATIONAL COOPERATION AGENCY

FIG.III. 4.43 WATER DEMAND AND SUPPLY
BALANCE OF KEDAH RIVER SYSTEM
(IN CASE OF ONLY BERIS DAM
CONSTRUCTED)

(10/10)

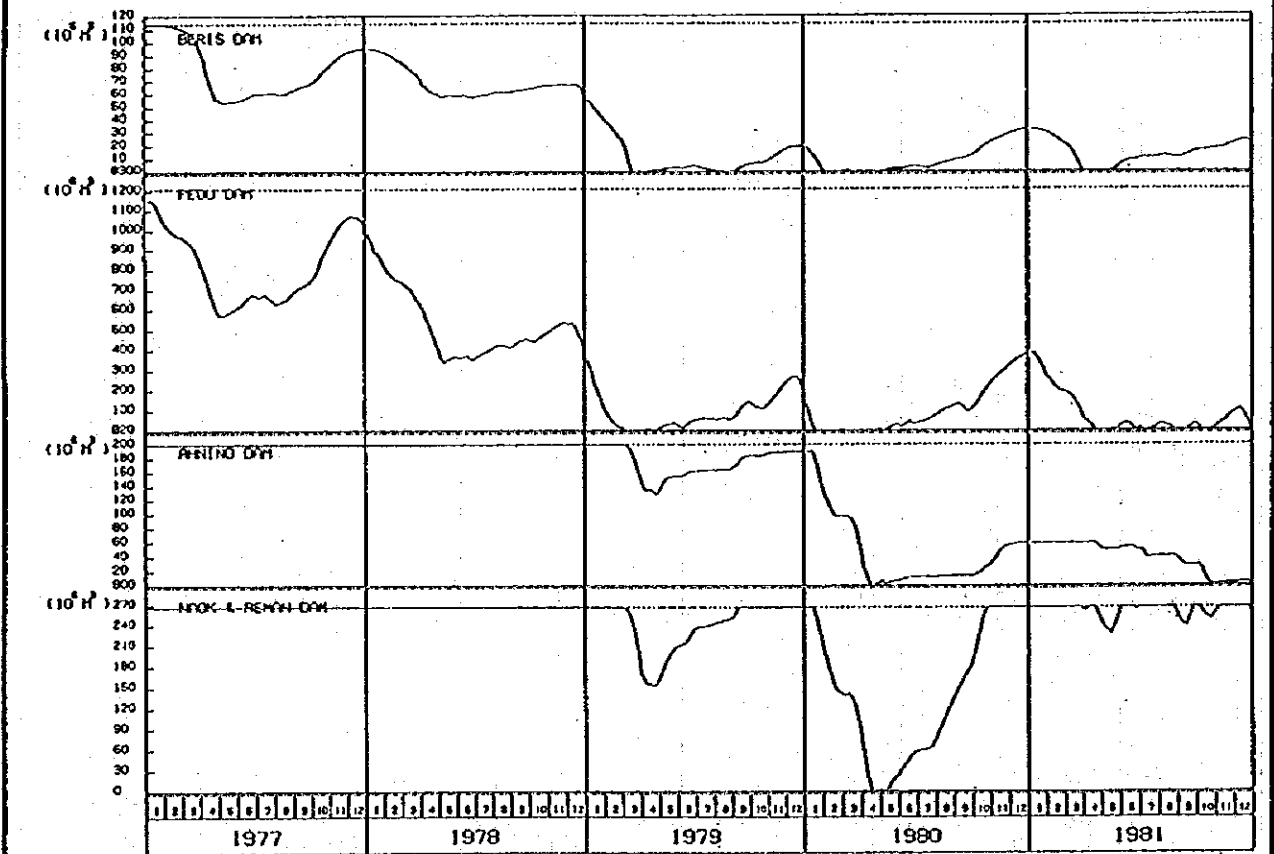
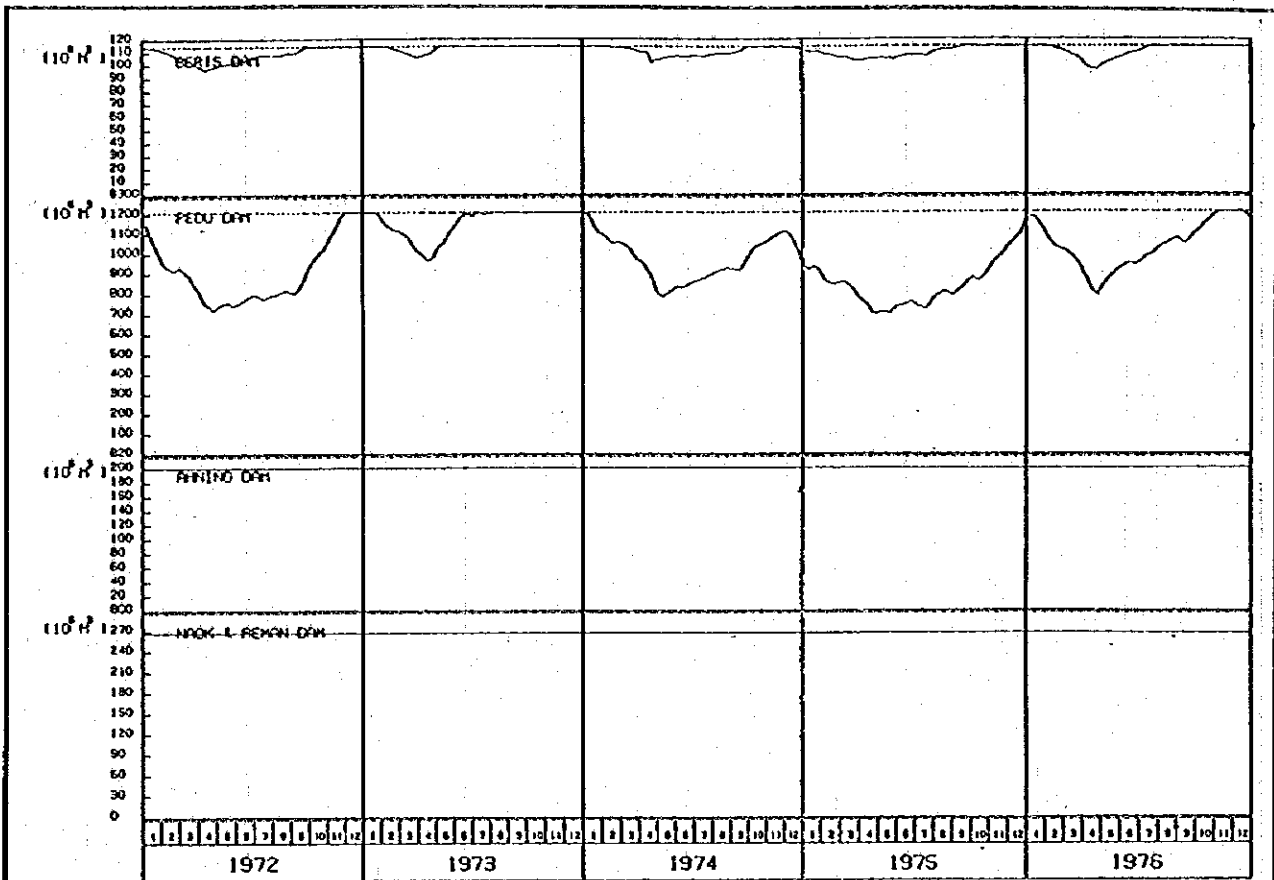


COMPREHENSIVE MANAGEMENT PLAN OF
MUDA RIVER BASIN

JAPAN INTERNATIONAL COOPERATION AGENCY

FIG.III. 4.4.4 RESERVOIR STORAGE MOVEMENT OF
OBJECTIVE DAMS (IN CASE OF ALL
PROPOSED WATER RESOURCES
DEVELOPMENT STRUCTURES
CONSTRUCTED)

(1/3)

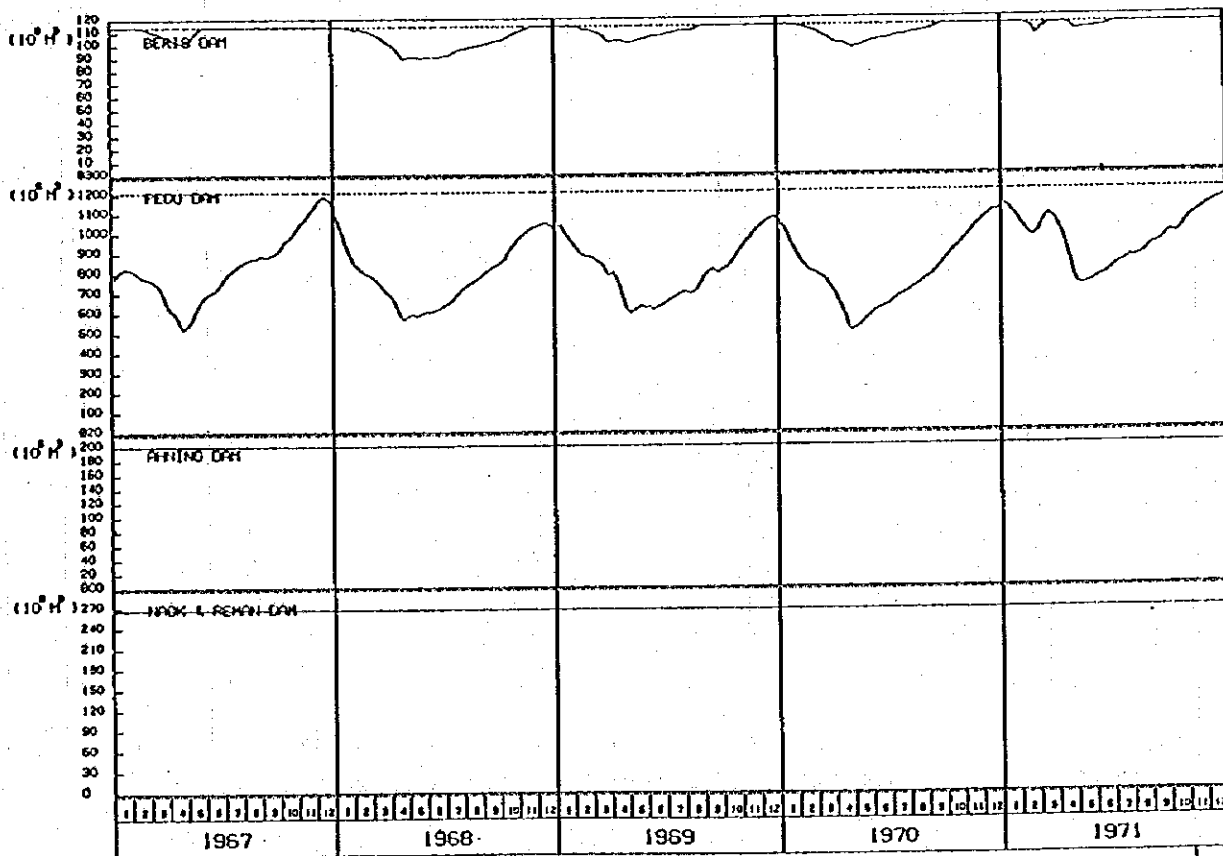
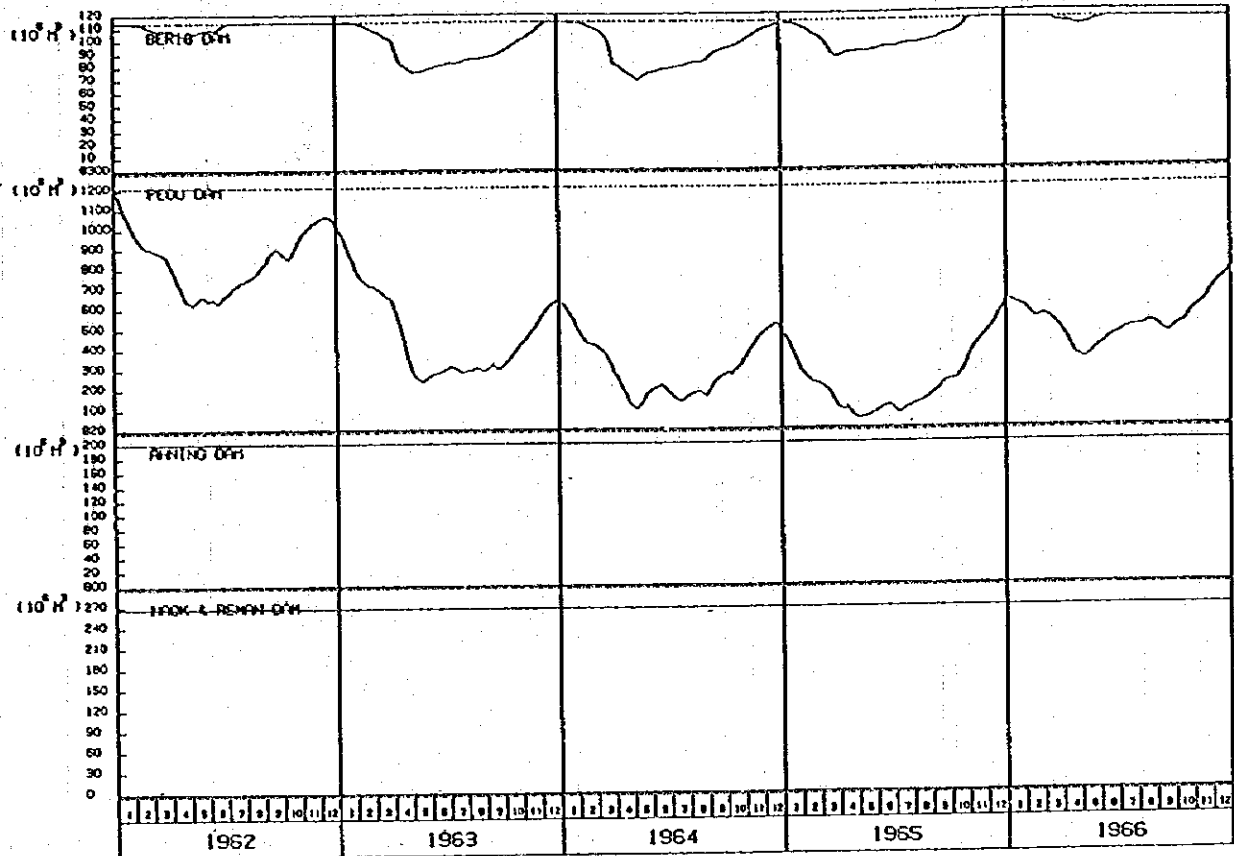


COMPREHENSIVE MANAGEMENT PLAN OF
MUDA RIVER BASIN

JAPAN INTERNATIONAL COOPERATION AGENCY

FIG.III. 4.4.4 RESERVOIR STORAGE MOVEMENT OF
OBJECTIVE DAMS (IN CASE OF ALL
PROPOSED WATER RESOURCES
DEVELOPMENT STRUCTURES
CONSTRUCTED)

(2/3)

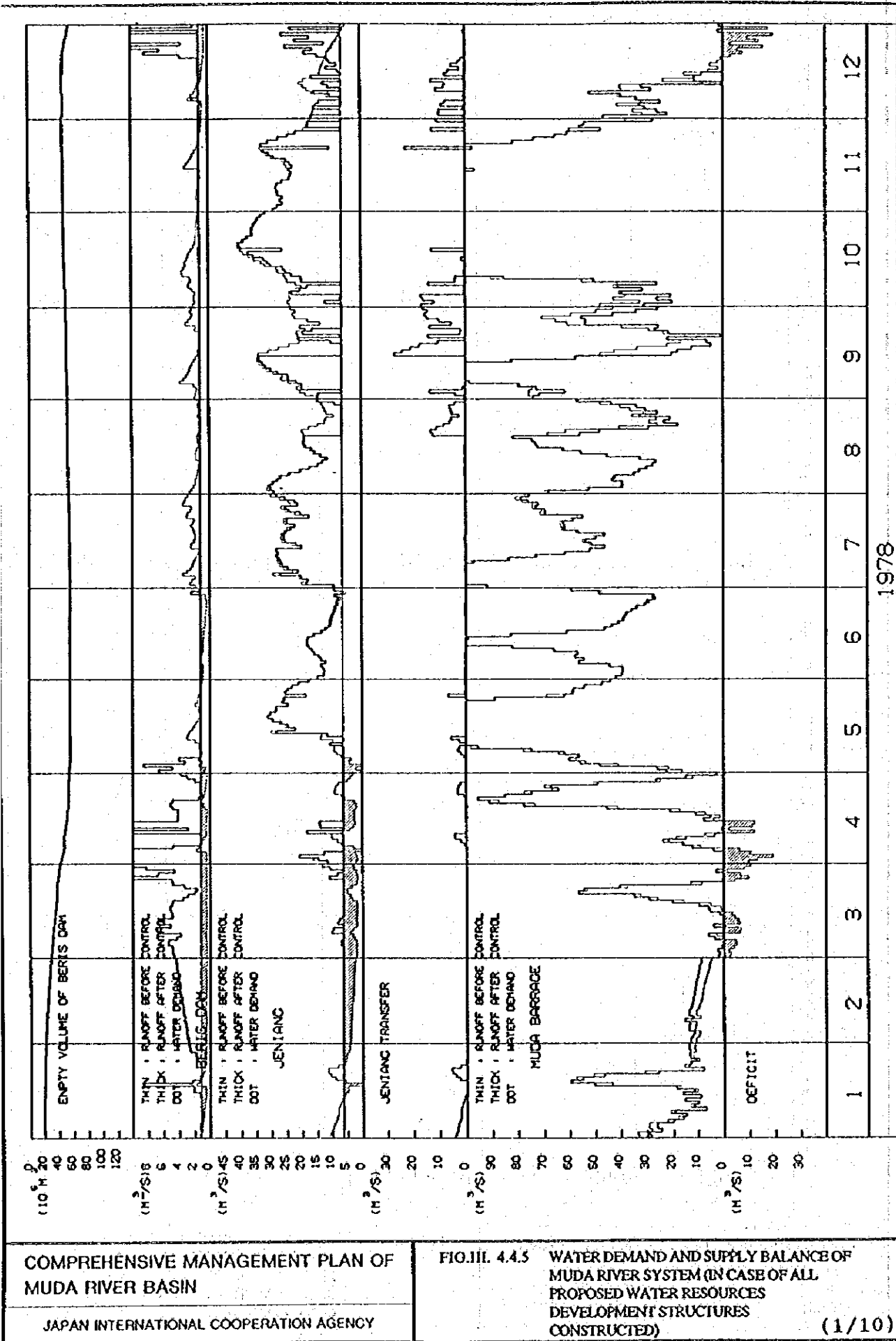


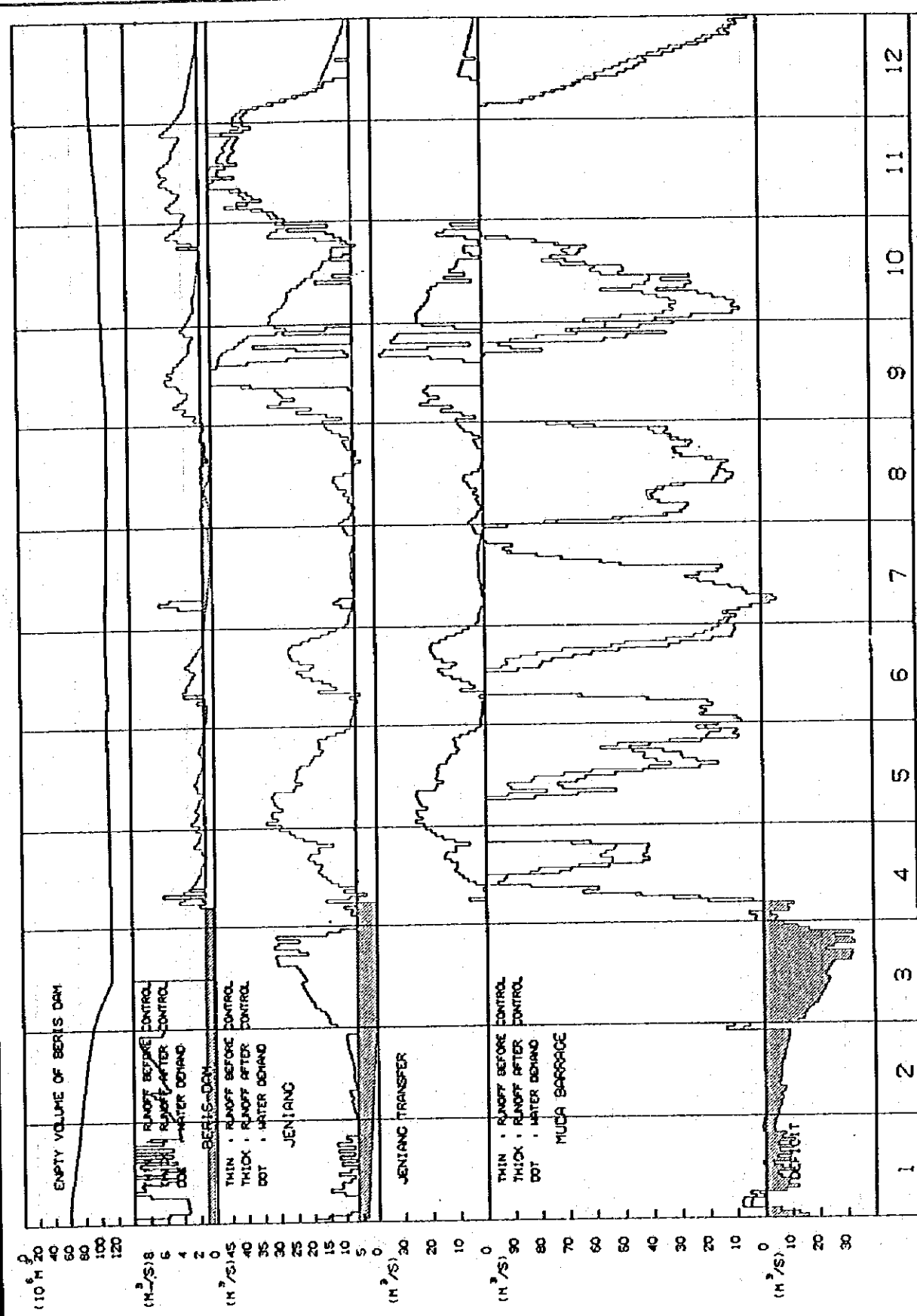
COMPREHENSIVE MANAGEMENT PLAN OF
MUDA RIVER BASIN

JAPAN INTERNATIONAL COOPERATION AGENCY

FIG.III. 4.4 RESERVOIR STORAGE MOVEMENT OF
OBJECTIVE DAMS (IN CASE OF ALL
PROPOSED WATER RESOURCES
DEVELOPMENT STRUCTURES
CONSTRUCTED)

(3/3)

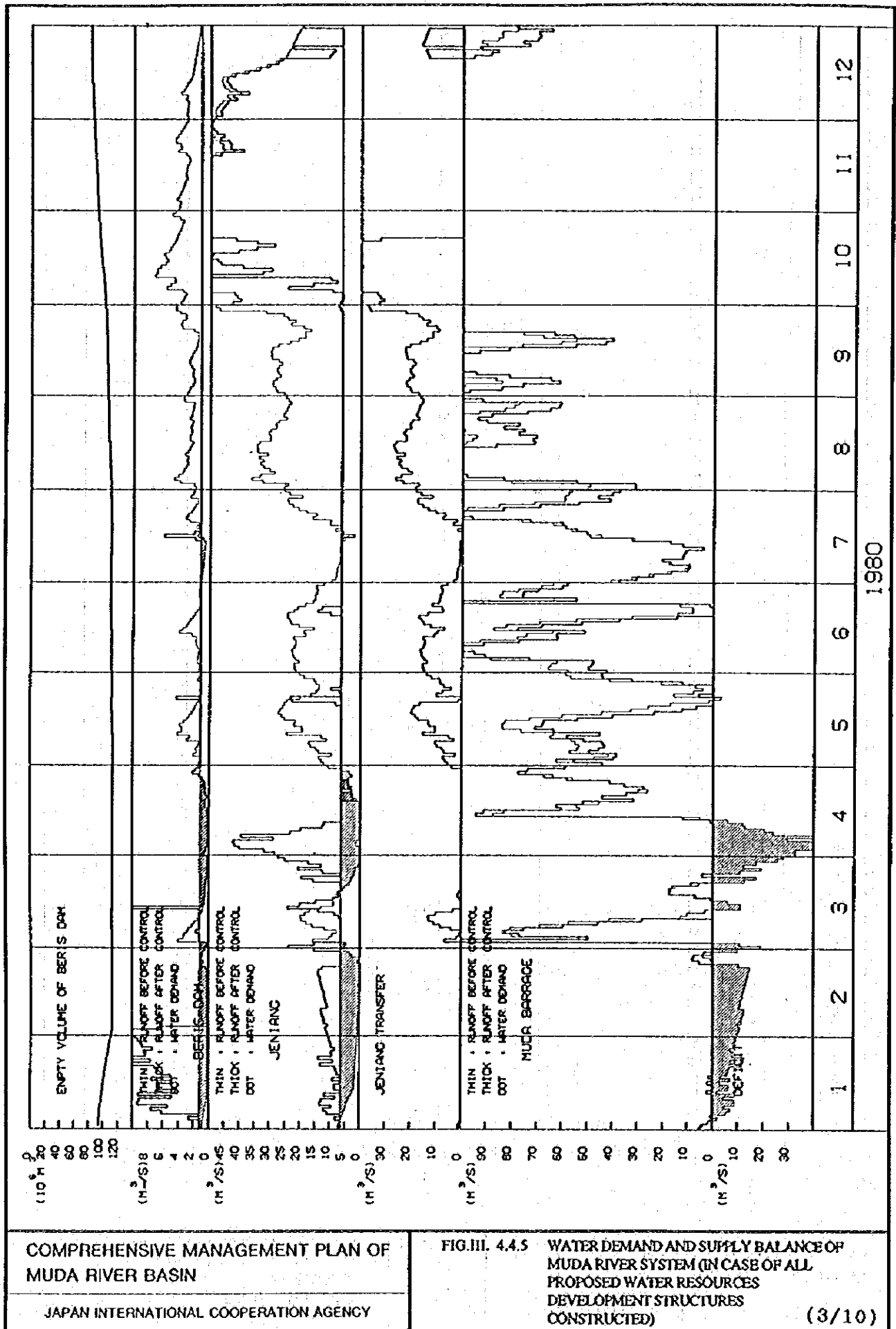




COMPREHENSIVE MANAGEMENT PLAN OF MUDA RIVER BASIN

JAPAN INTERNATIONAL COOPERATION AGENCY

FIG.III. 4.4.5 WATER DEMAND AND SUPPLY BALANCE OF MUDA RIVER SYSTEM (IN CASE OF ALL PROPOSED WATER RESOURCES DEVELOPMENT STRUCTURES CONSTRUCTED)

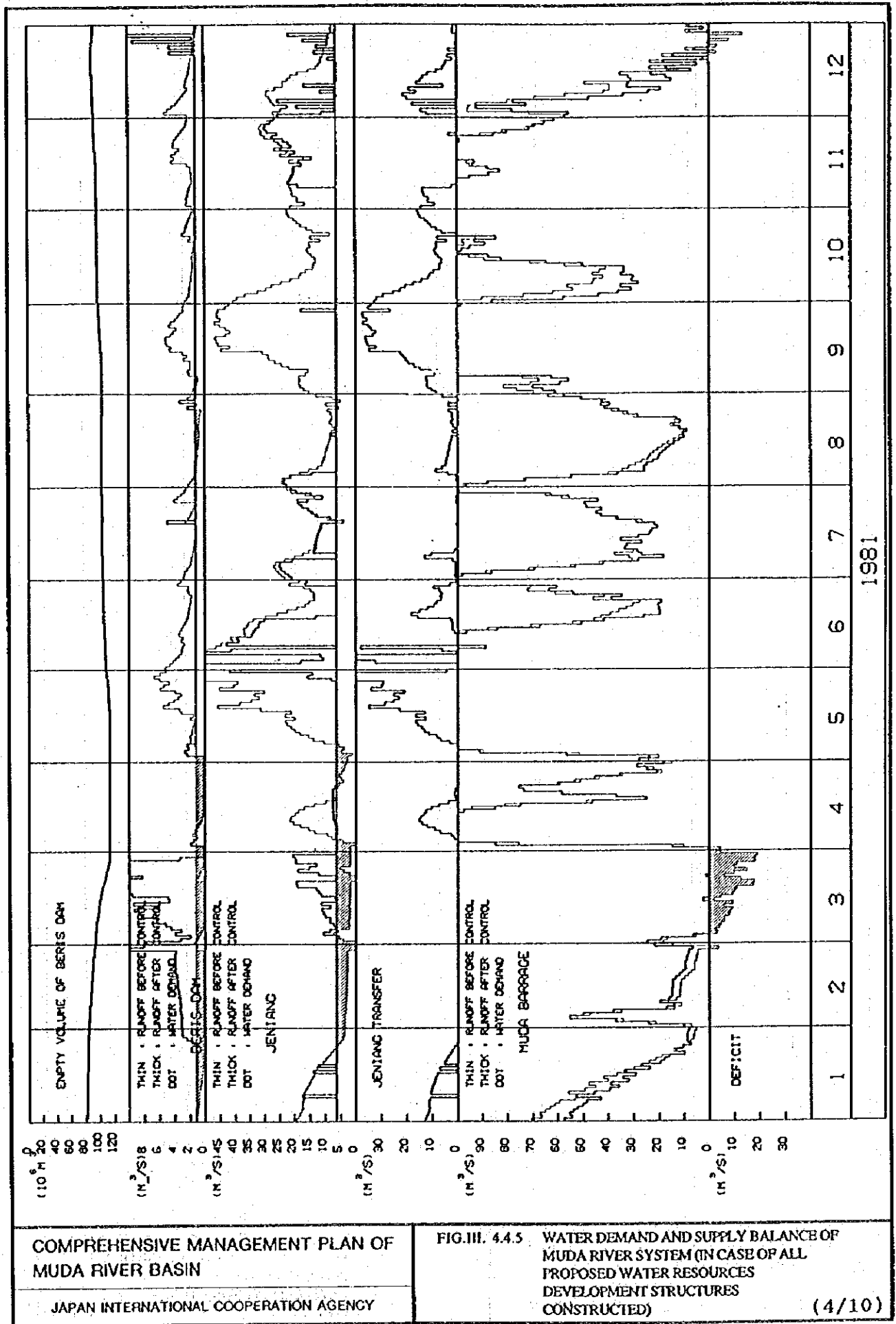


COMPREHENSIVE MANAGEMENT PLAN OF MUDA RIVER BASIN

JAPAN INTERNATIONAL COOPERATION AGENCY

FIG.III. 4.4.5 WATER DEMAND AND SUPPLY BALANCE OF MUDA RIVER SYSTEM (IN CASE OF ALL PROPOSED WATER RESOURCES DEVELOPMENT STRUCTURES CONSTRUCTED)

(3/10)

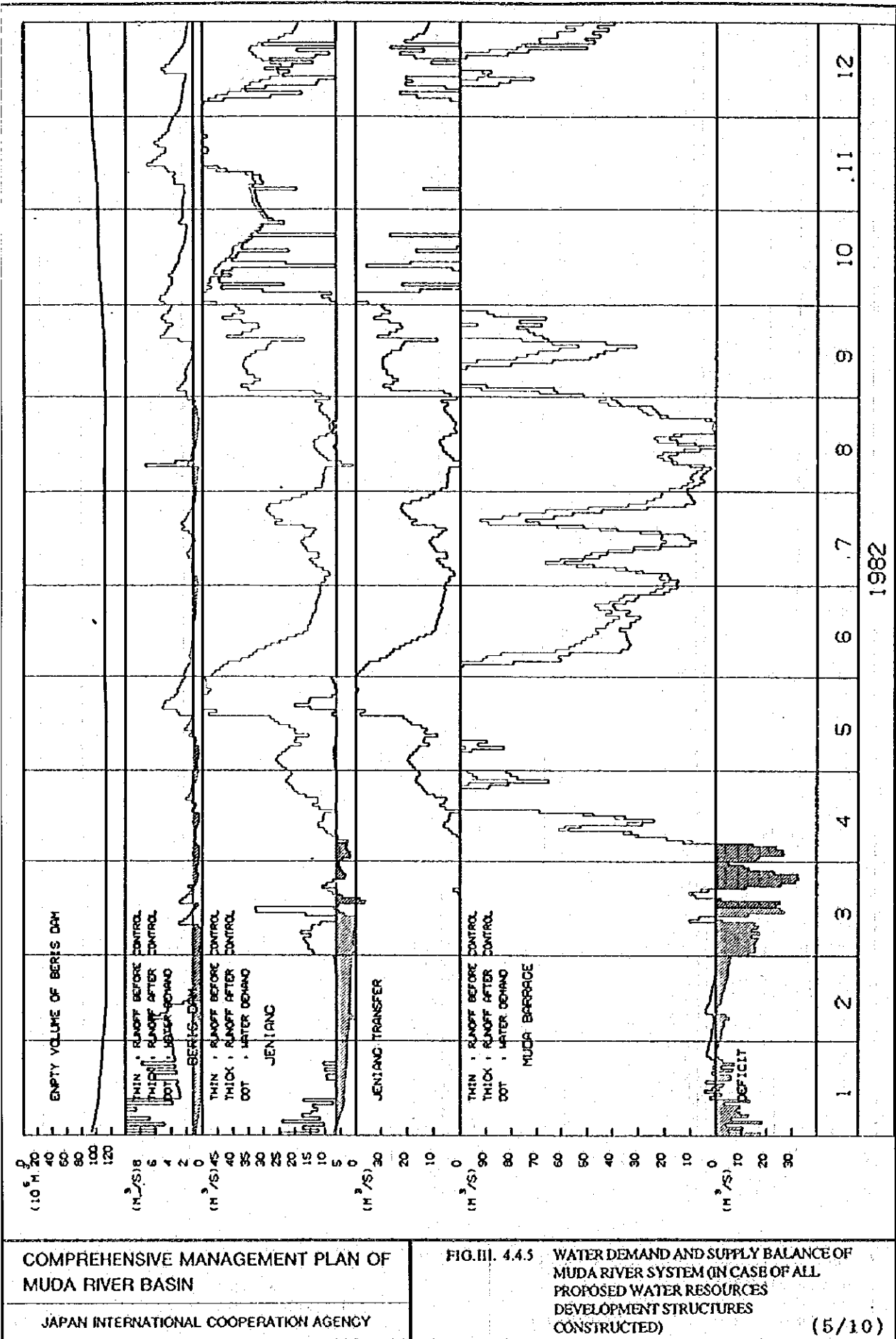


COMPREHENSIVE MANAGEMENT PLAN OF
MUDA RIVER BASIN

JAPAN INTERNATIONAL COOPERATION AGENCY

FIG. III. 4.4.5 WATER DEMAND AND SUPPLY BALANCE OF
MUDA RIVER SYSTEM (IN CASE OF ALL
PROPOSED WATER RESOURCES
DEVELOPMENT STRUCTURES
CONSTRUCTED)

(4/10)

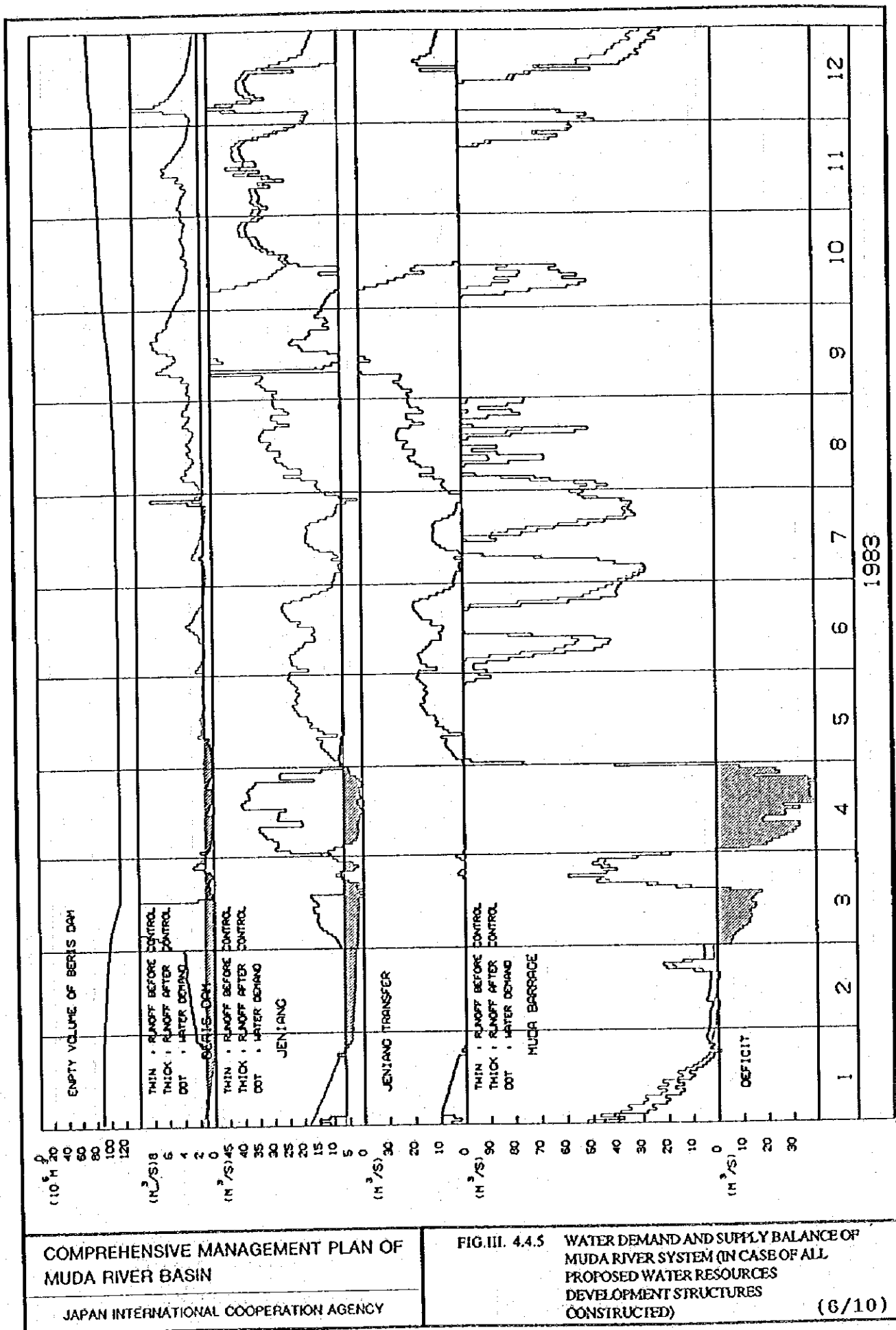


COMPREHENSIVE MANAGEMENT PLAN OF MUDA RIVER BASIN

JAPAN INTERNATIONAL COOPERATION AGENCY

FIG.III. 4.4.5 WATER DEMAND AND SUPPLY BALANCE OF MUDA RIVER SYSTEM (IN CASE OF ALL PROPOSED WATER RESOURCES DEVELOPMENT STRUCTURES CONSTRUCTED)

(5/10)

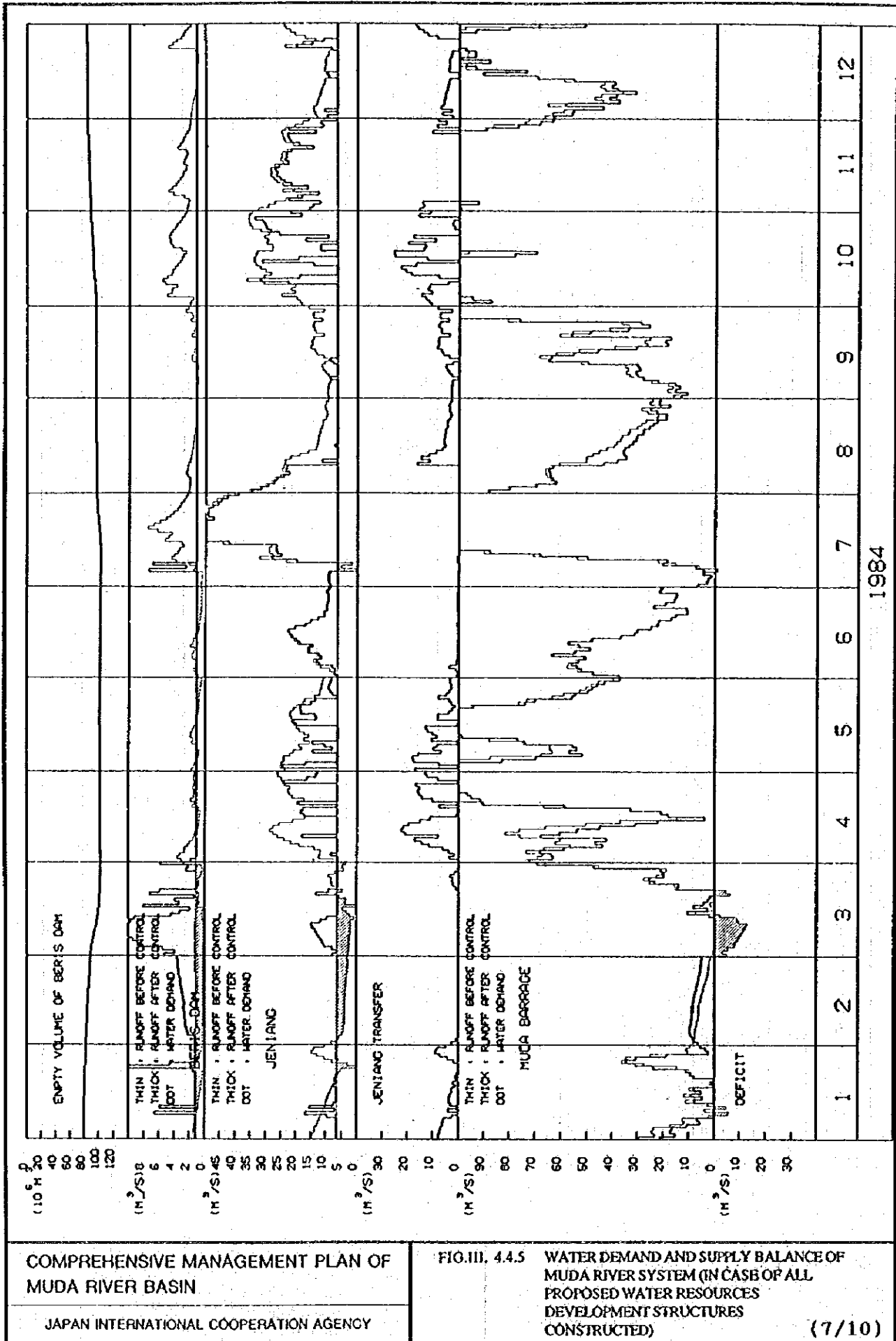


COMPREHENSIVE MANAGEMENT PLAN OF MUDA RIVER BASIN

JAPAN INTERNATIONAL COOPERATION AGENCY

FIG.III. 4.4.5 WATER DEMAND AND SUPPLY BALANCE OF MUDA RIVER SYSTEM (IN CASE OF ALL PROPOSED WATER RESOURCES DEVELOPMENT STRUCTURES CONSTRUCTED)

(6/10)

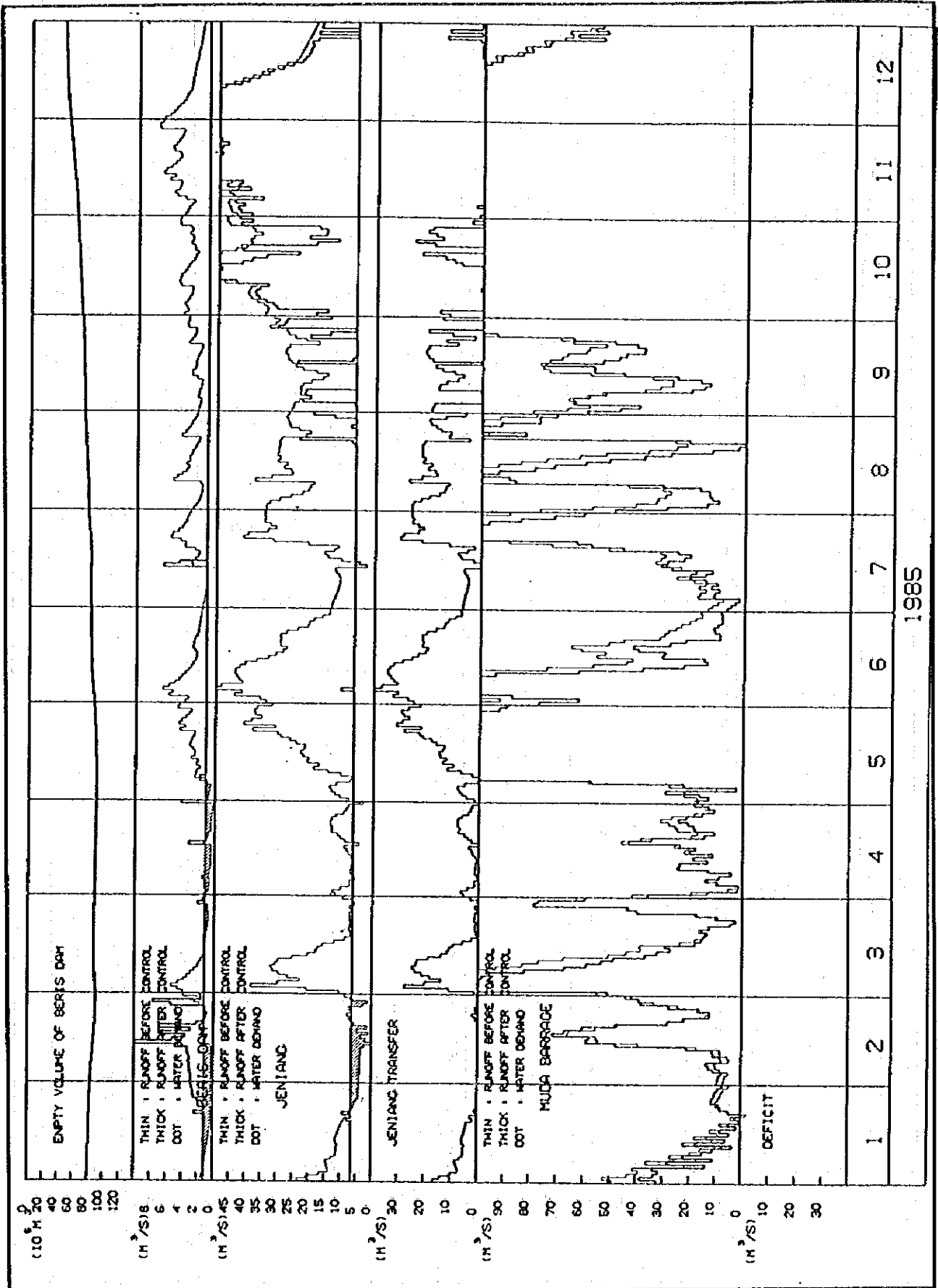


COMPREHENSIVE MANAGEMENT PLAN OF MUDA RIVER BASIN

JAPAN INTERNATIONAL COOPERATION AGENCY

FIG. III. 4.4.5 WATER DEMAND AND SUPPLY BALANCE OF MUDA RIVER SYSTEM (IN CASE OF ALL PROPOSED WATER RESOURCES DEVELOPMENT STRUCTURES CONSTRUCTED)

(7/10)



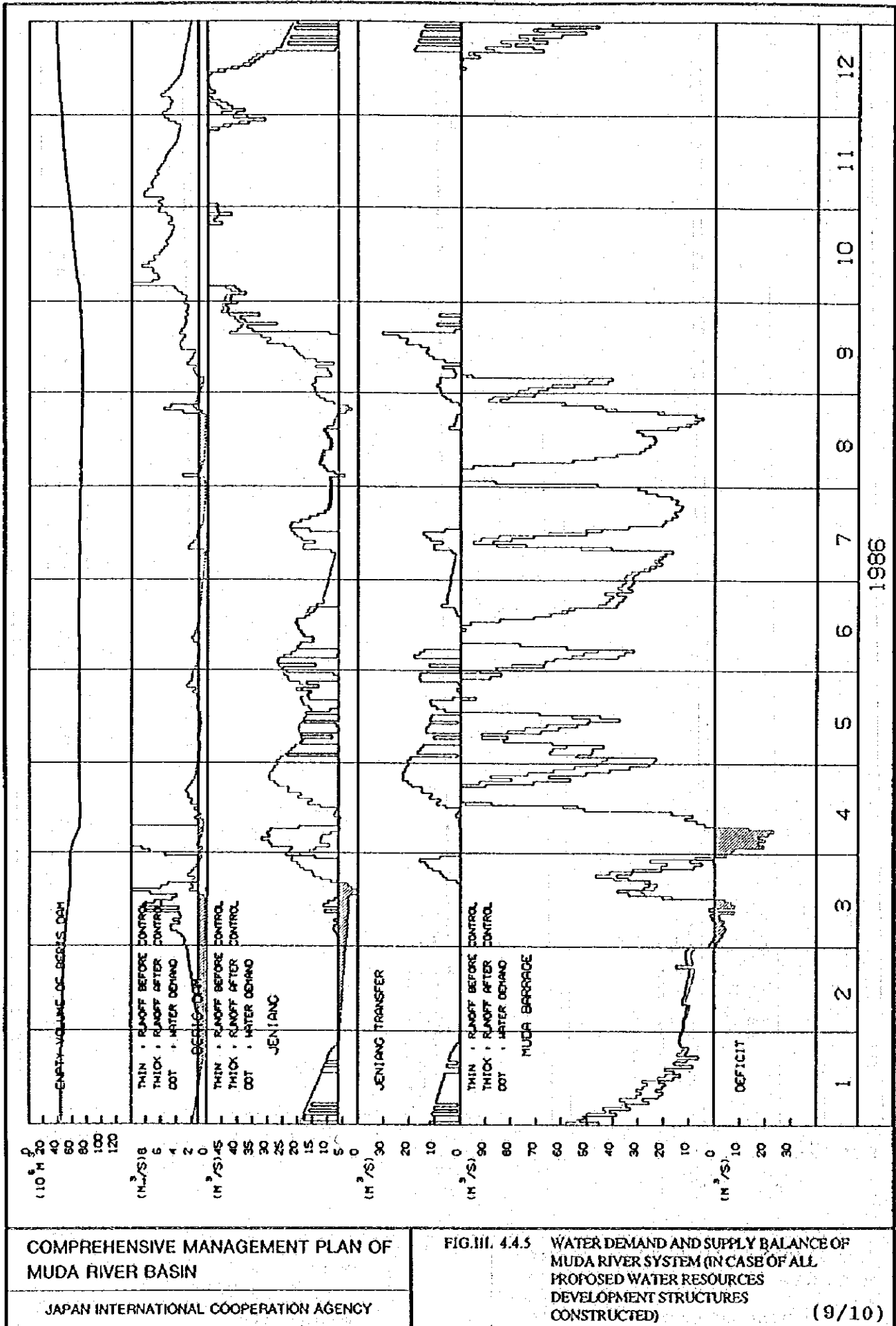
1985

COMPREHENSIVE MANAGEMENT PLAN OF MUDA RIVER BASIN

JAPAN INTERNATIONAL COOPERATION AGENCY

FIG.III. 4.4.5 WATER DEMAND AND SUPPLY BALANCE OF MUDA RIVER SYSTEM (IN CASE OF ALL PROPOSED WATER RESOURCES DEVELOPMENT STRUCTURES CONSTRUCTED)

(8/10)

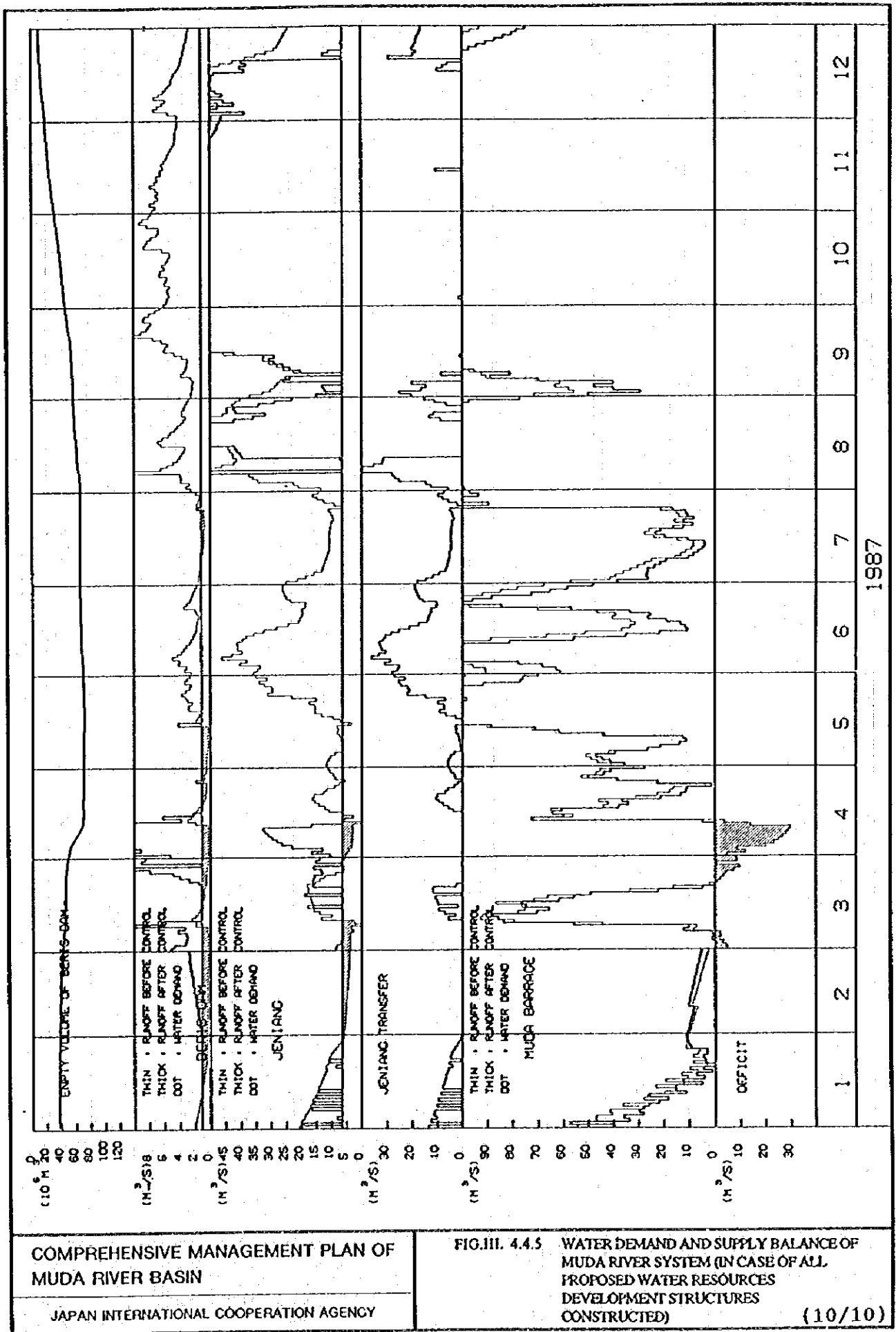


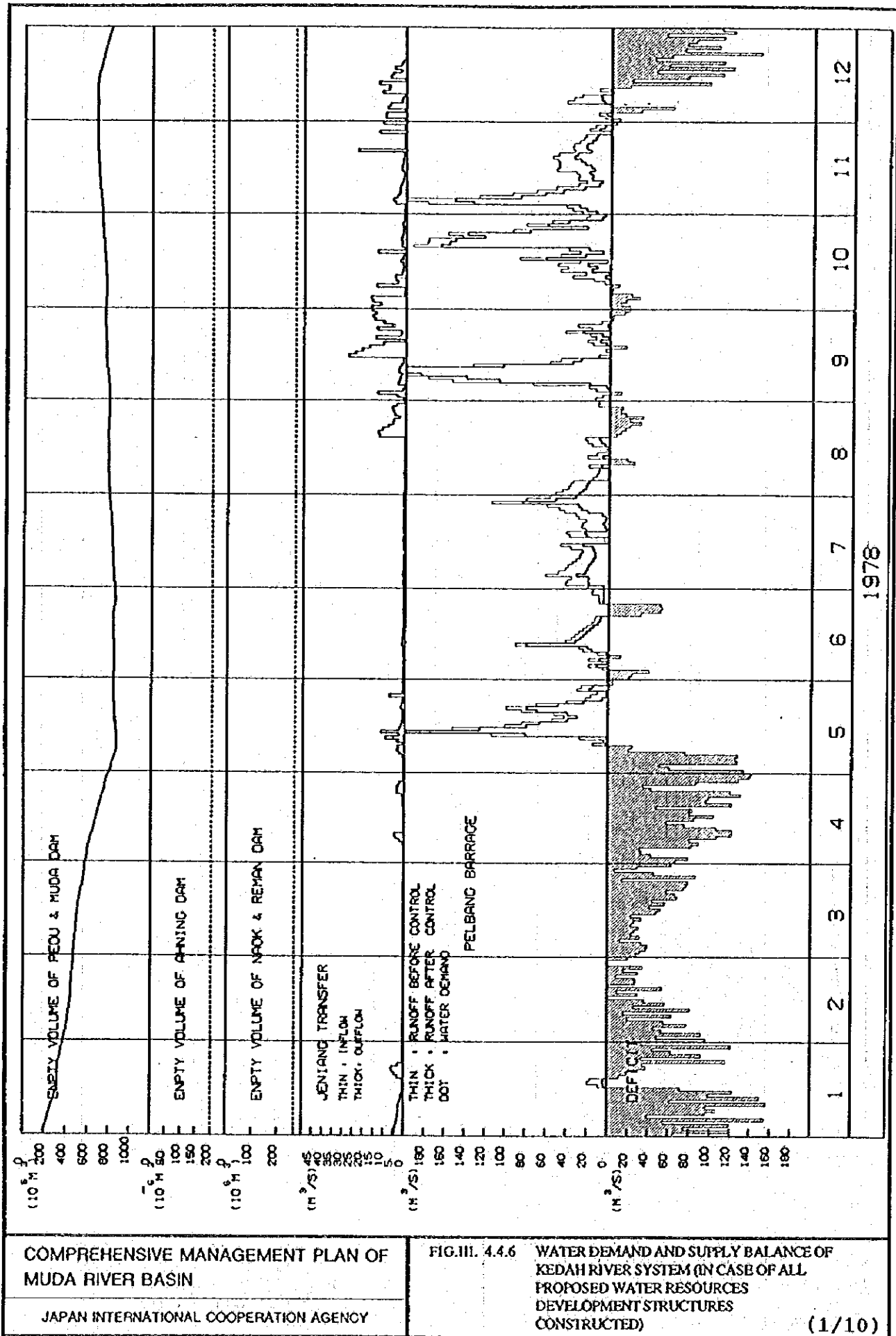
COMPREHENSIVE MANAGEMENT PLAN OF MUDA RIVER BASIN

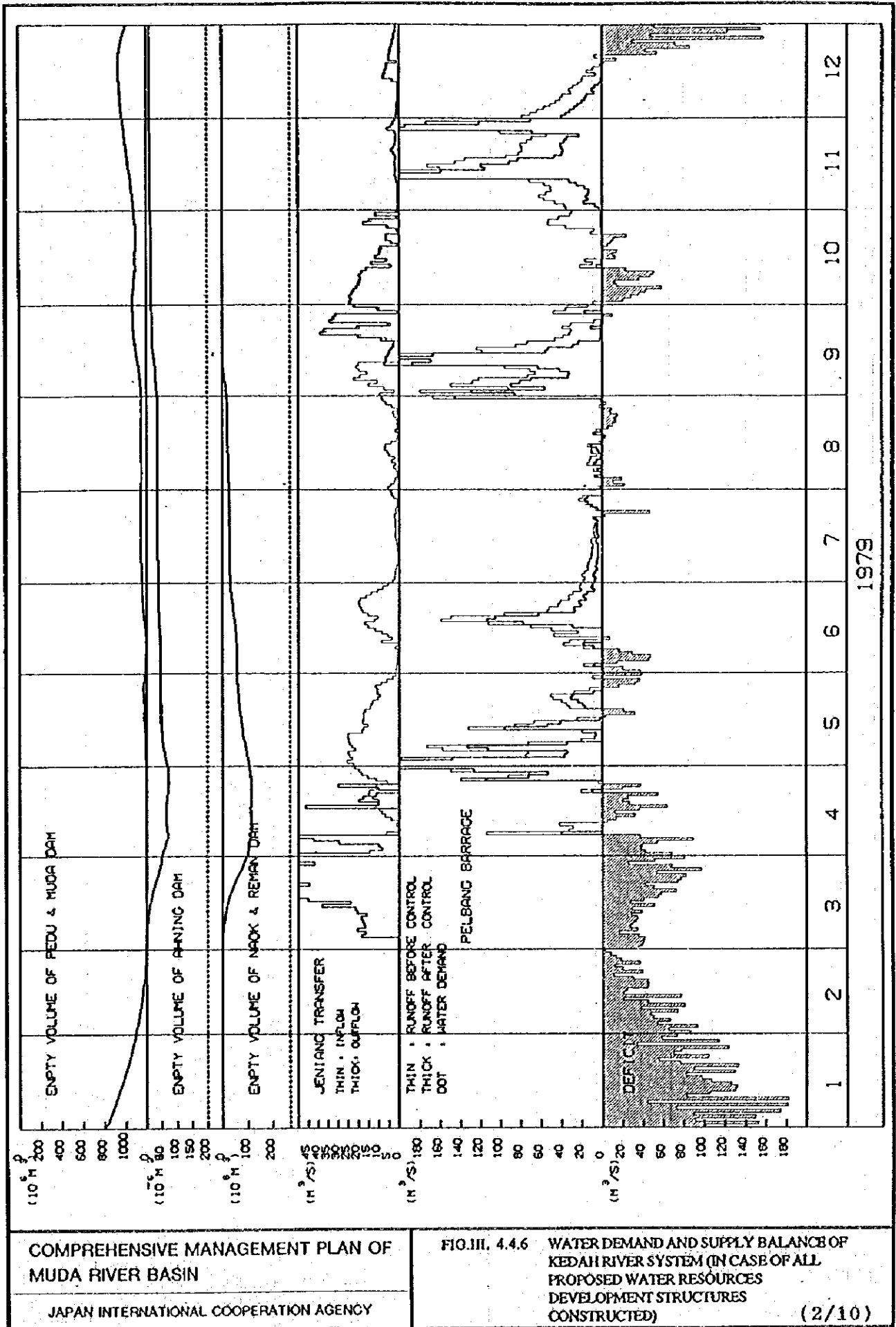
JAPAN INTERNATIONAL COOPERATION AGENCY

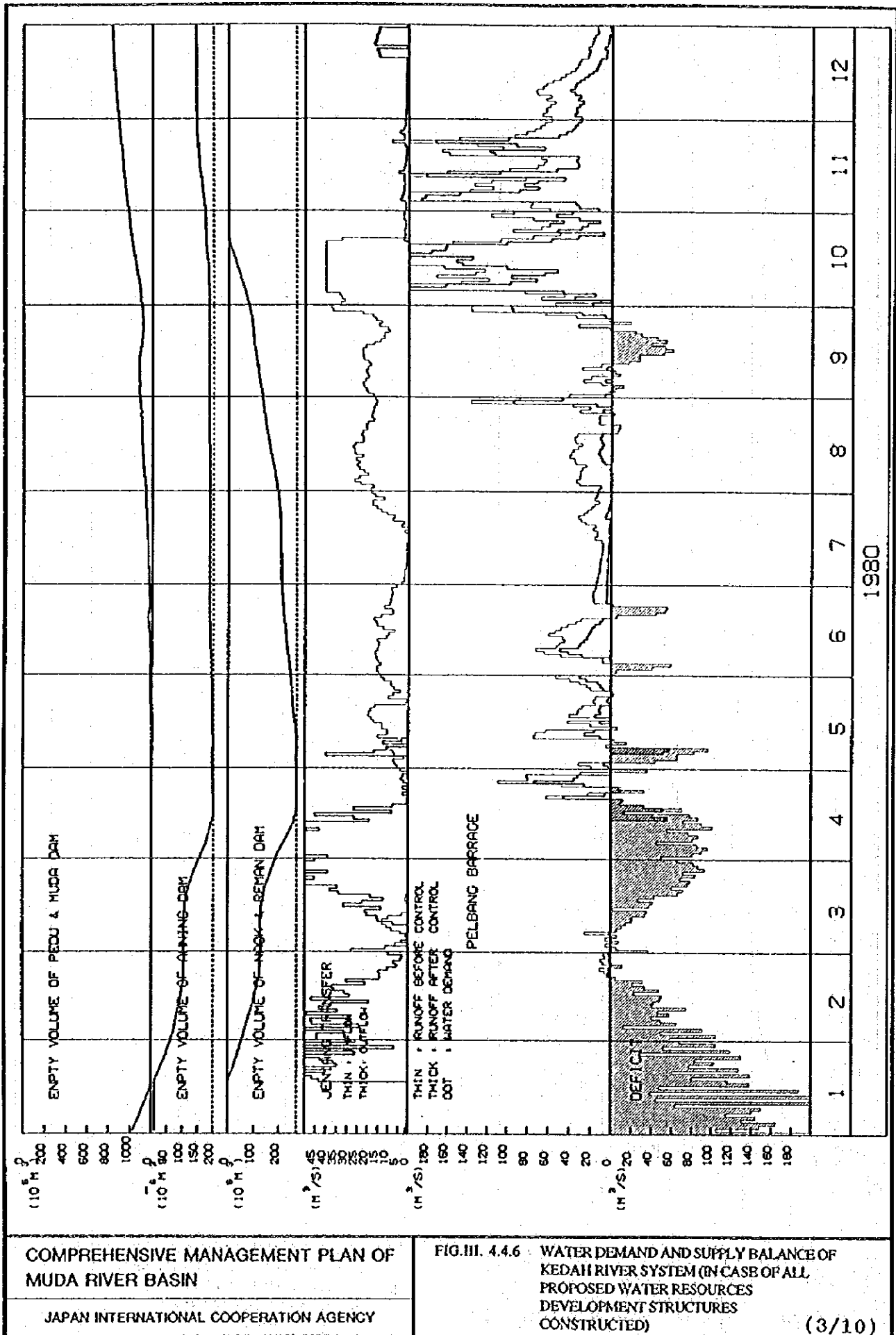
FIG.III. 4.4.5 WATER DEMAND AND SUPPLY BALANCE OF MUDA RIVER SYSTEM (IN CASE OF ALL PROPOSED WATER RESOURCES DEVELOPMENT STRUCTURES CONSTRUCTED)

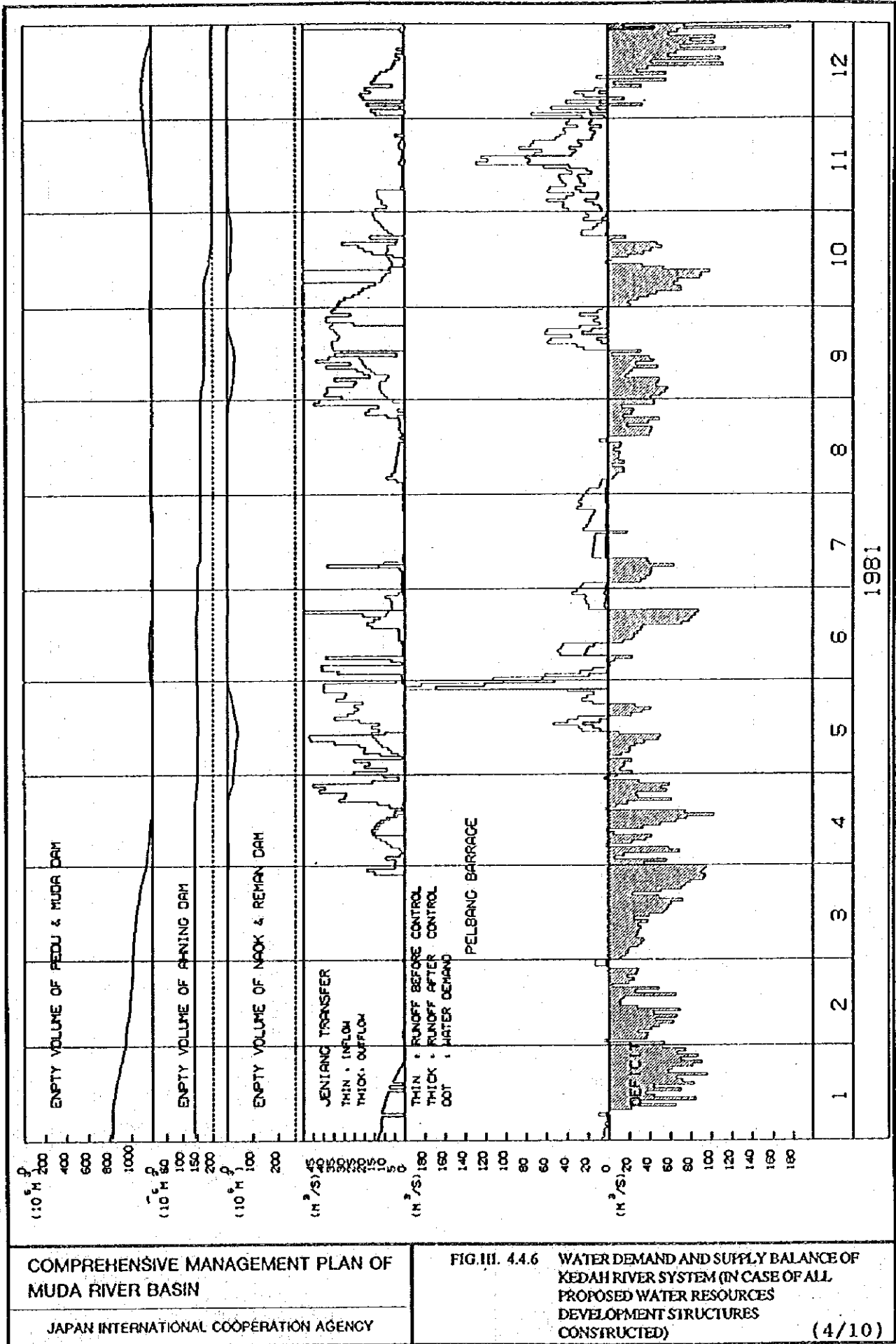
(9/10)









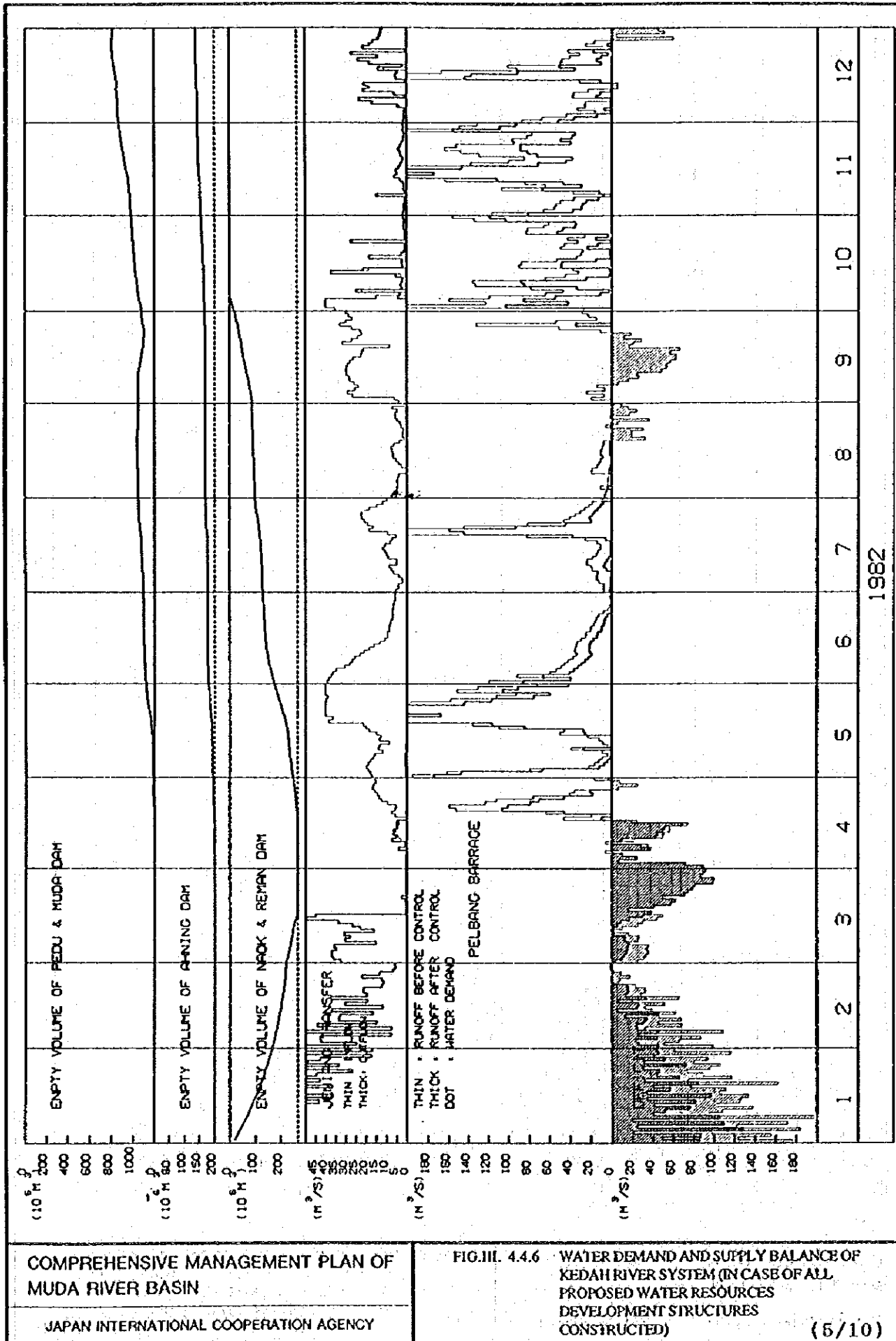


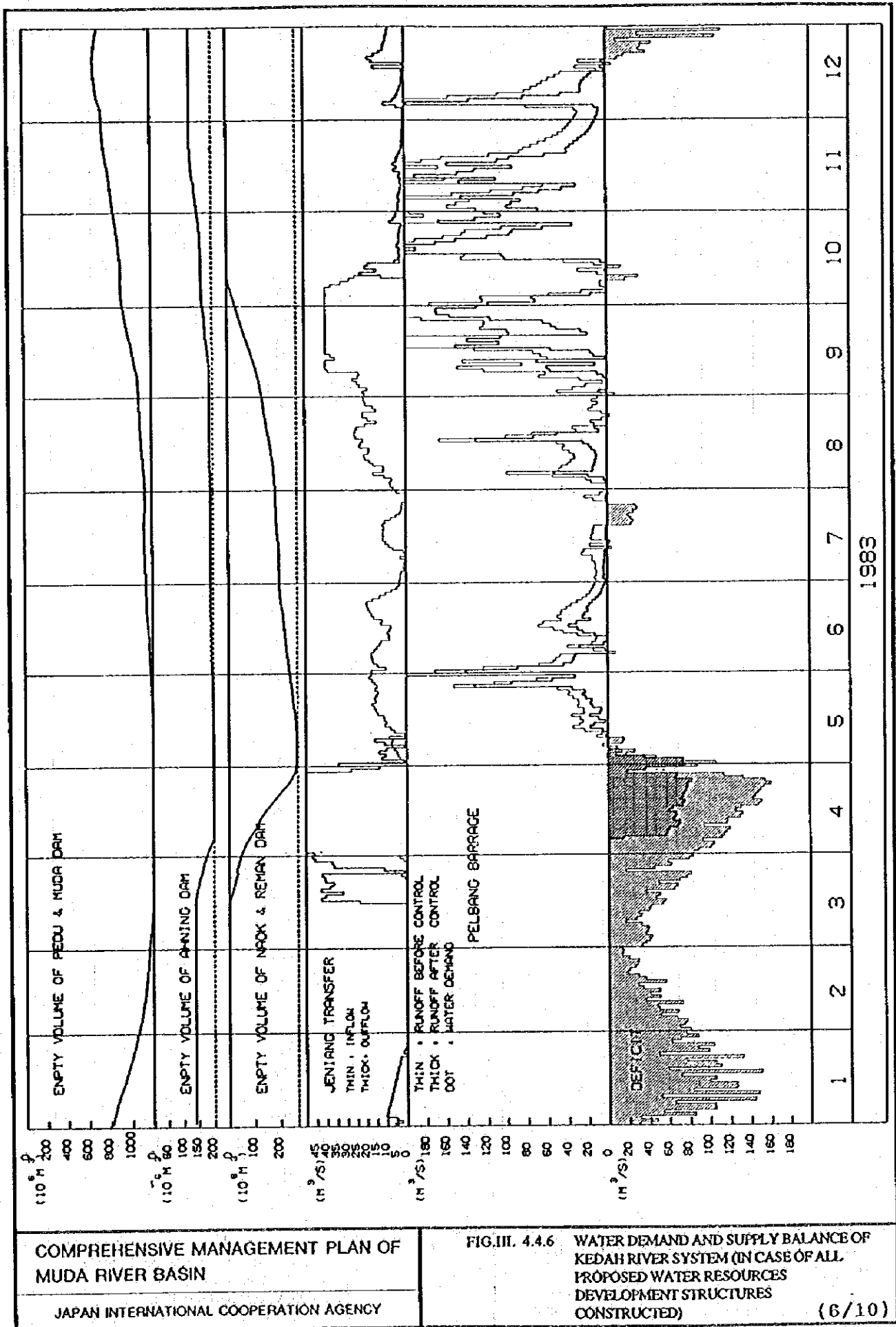
COMPREHENSIVE MANAGEMENT PLAN OF MUDA RIVER BASIN

JAPAN INTERNATIONAL COOPERATION AGENCY

FIG. III. 4.4.6 WATER DEMAND AND SUPPLY BALANCE OF KEDAH RIVER SYSTEM (IN CASE OF ALL PROPOSED WATER RESOURCES DEVELOPMENT STRUCTURES CONSTRUCTED)

(4/10)



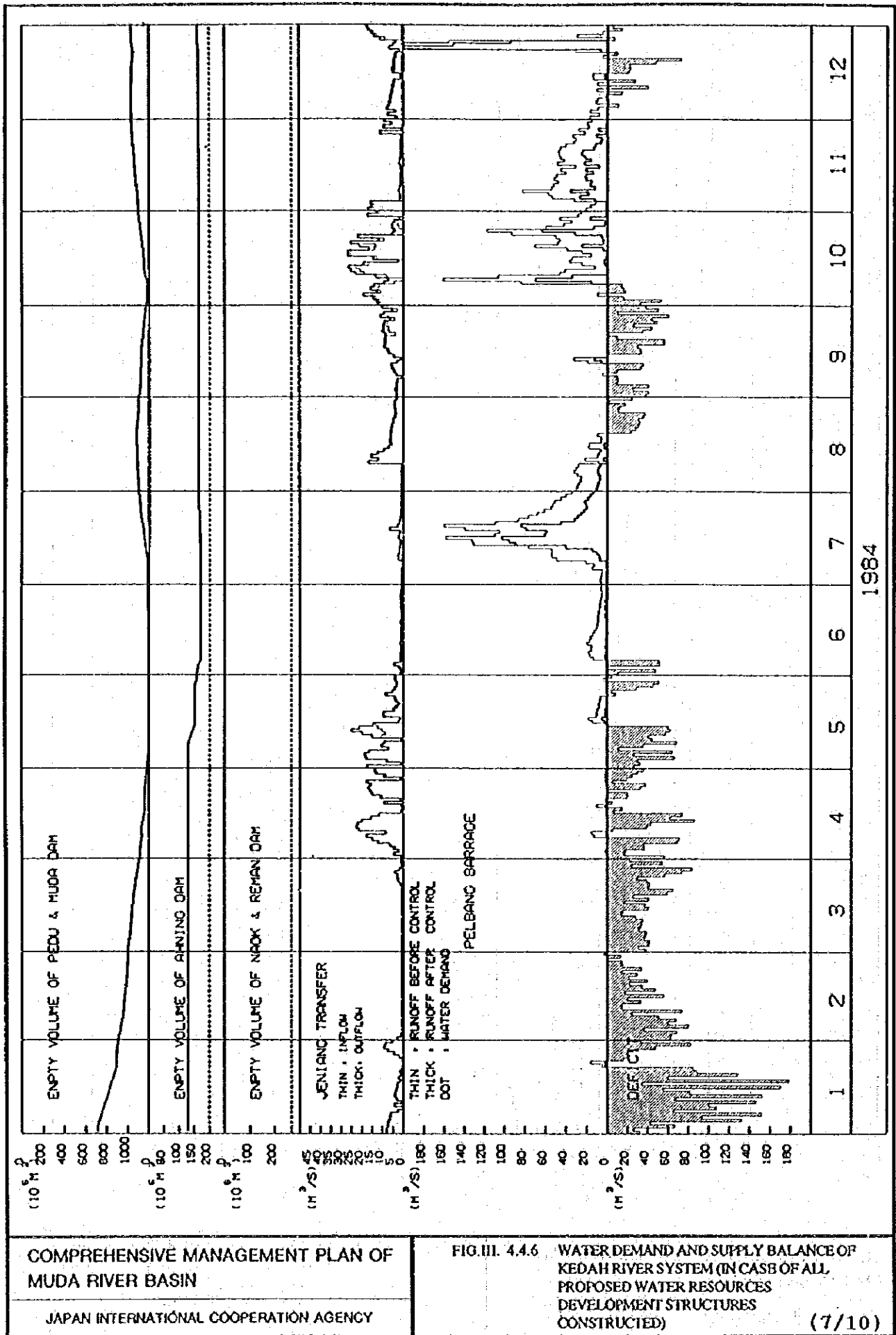


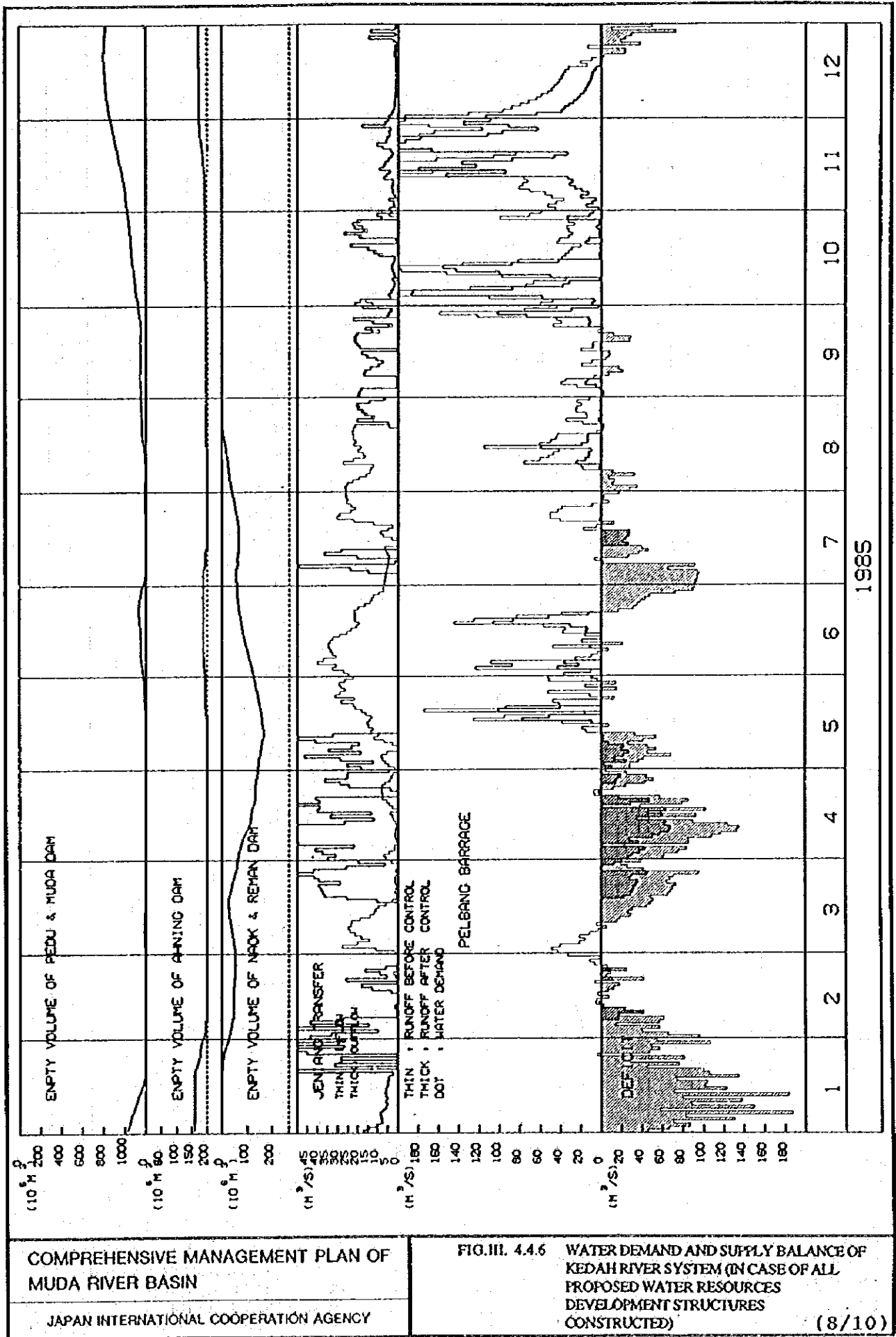
COMPREHENSIVE MANAGEMENT PLAN OF MUDA RIVER BASIN

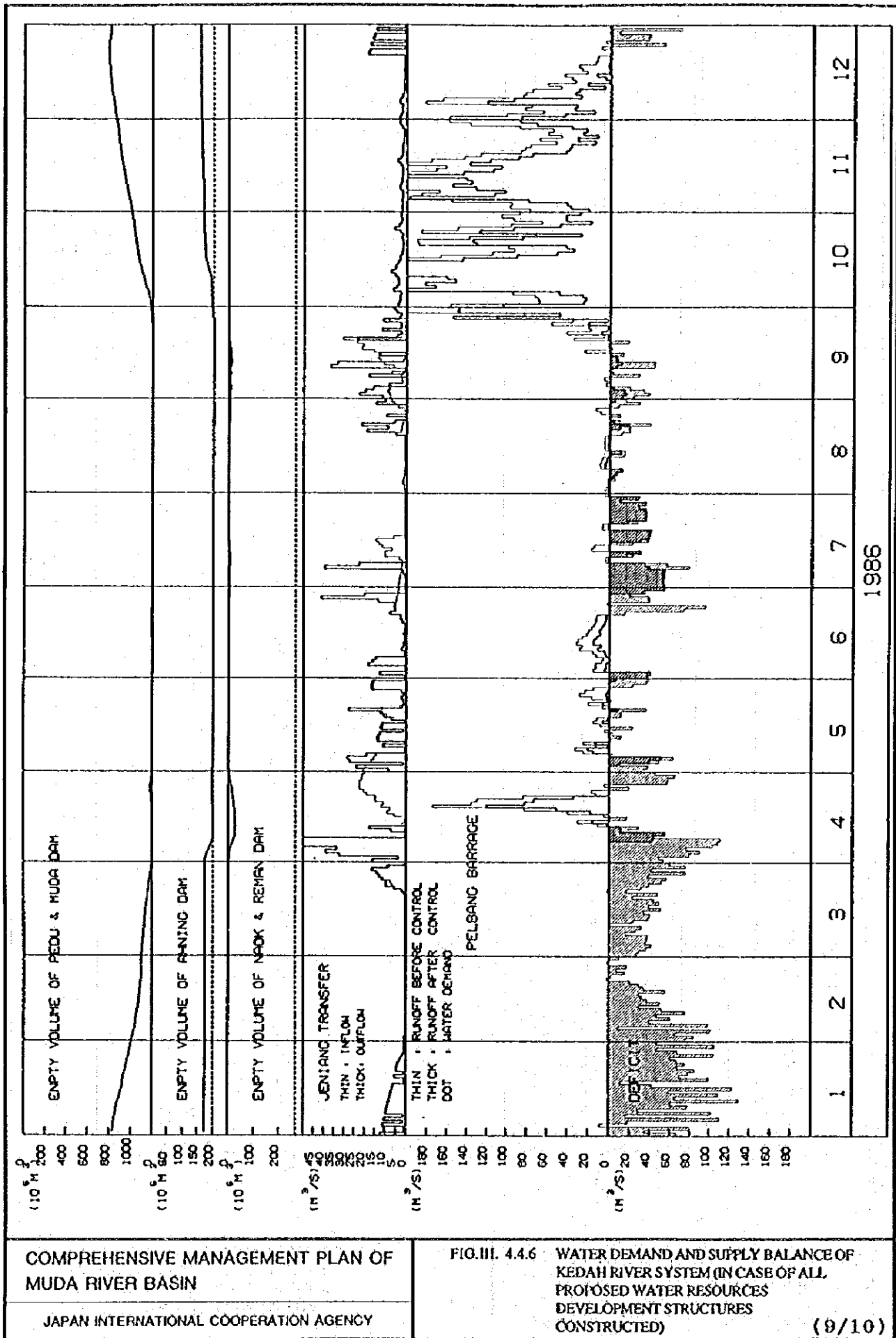
JAPAN INTERNATIONAL COOPERATION AGENCY

FIG.III. 4.4.6 WATER DEMAND AND SUPPLY BALANCE OF KEDAH RIVER SYSTEM (IN CASE OF ALL PROPOSED WATER RESOURCES DEVELOPMENT STRUCTURES CONSTRUCTED)

(6/10)





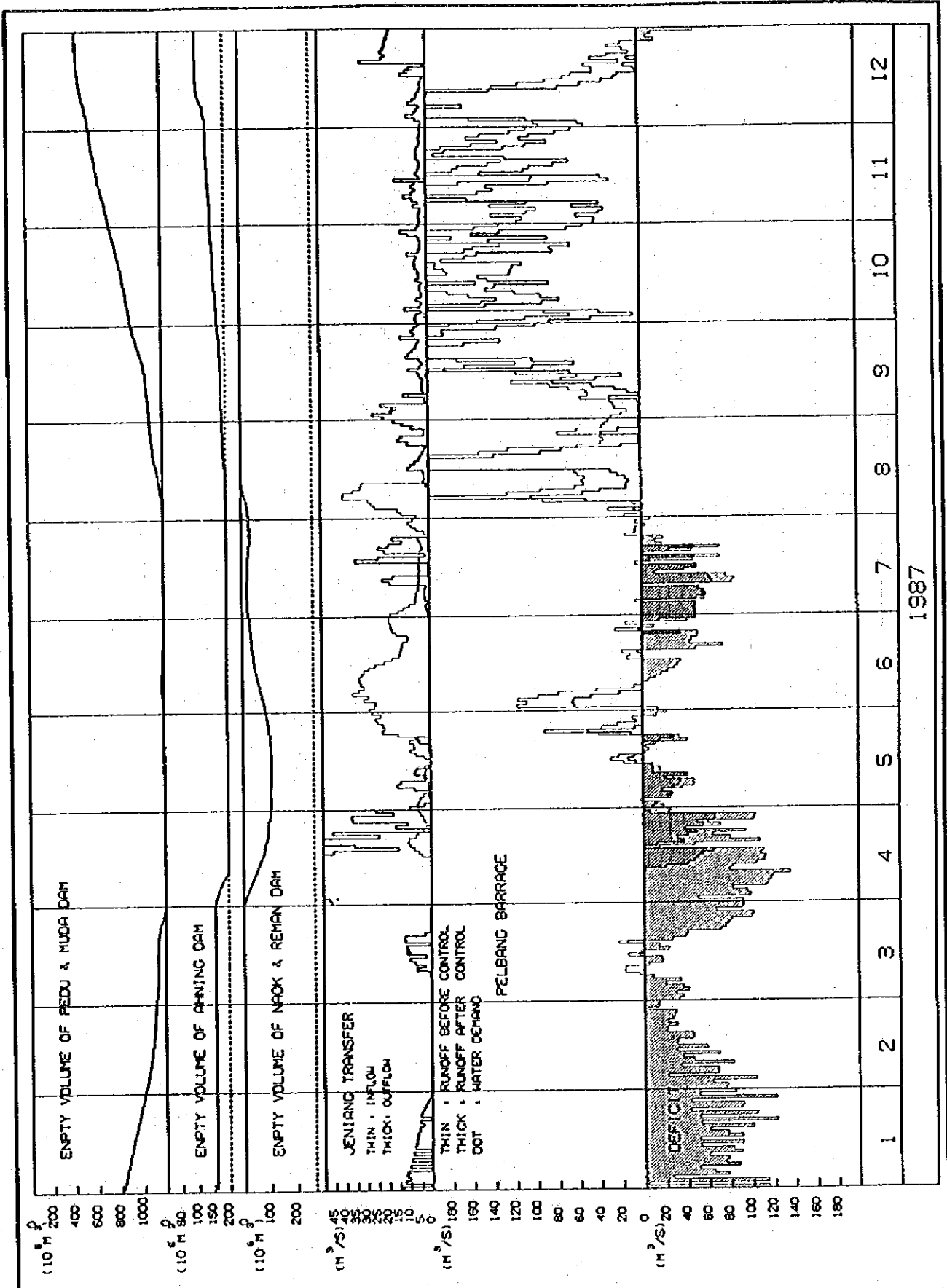


COMPREHENSIVE MANAGEMENT PLAN OF
MUDA RIVER BASIN

JAPAN INTERNATIONAL COOPERATION AGENCY

FIG. III. 4.4.6 WATER DEMAND AND SUPPLY BALANCE OF
KEDAH RIVER SYSTEM (IN CASE OF ALL
PROPOSED WATER RESOURCES
DEVELOPMENT STRUCTURES
CONSTRUCTED)

(9/10)



COMPREHENSIVE MANAGEMENT PLAN OF
MUDA RIVER BASIN

JAPAN INTERNATIONAL COOPERATION AGENCY

FIG. III. 4.4.6 WATER DEMAND AND SUPPLY BALANCE OF
KEDAH RIVER SYSTEM (IN CASE OF ALL
PROPOSED WATER RESOURCES
DEVELOPMENT STRUCTURES
CONSTRUCTED) (10/10)

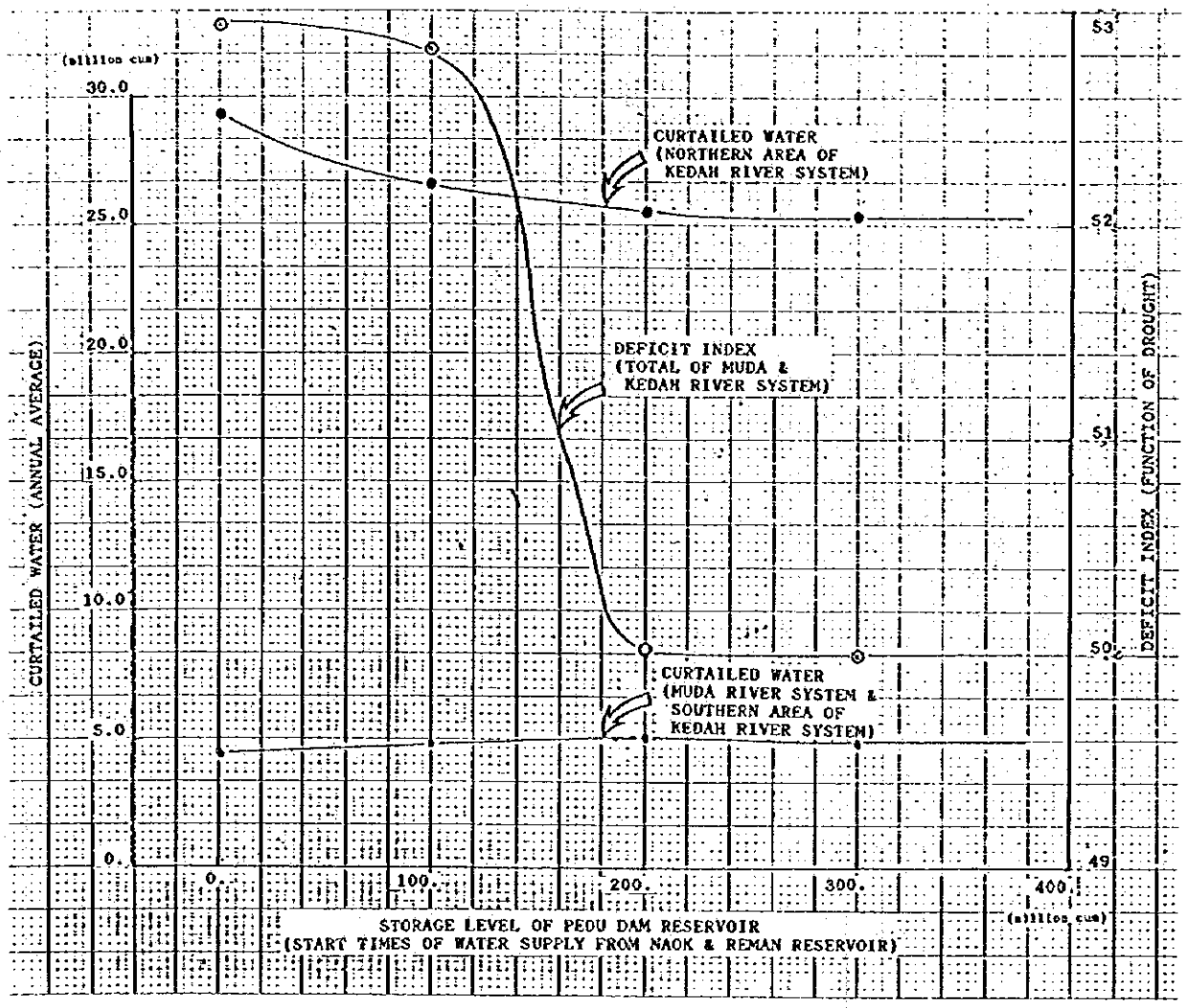
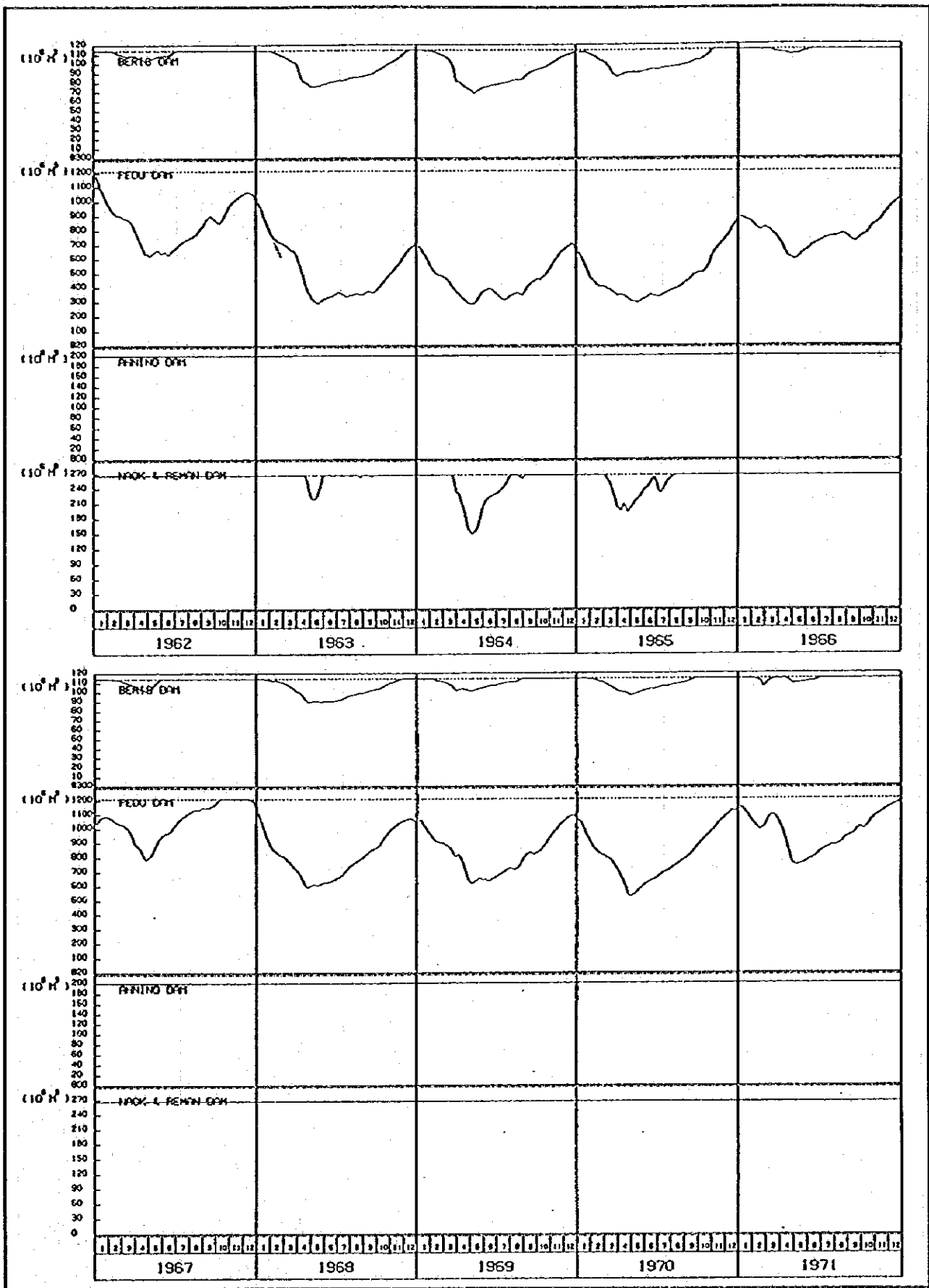


FIG.III. 5.3.1 THE RELATION BETWEEN RELEASE TIME AND DROUGHT INDICES.

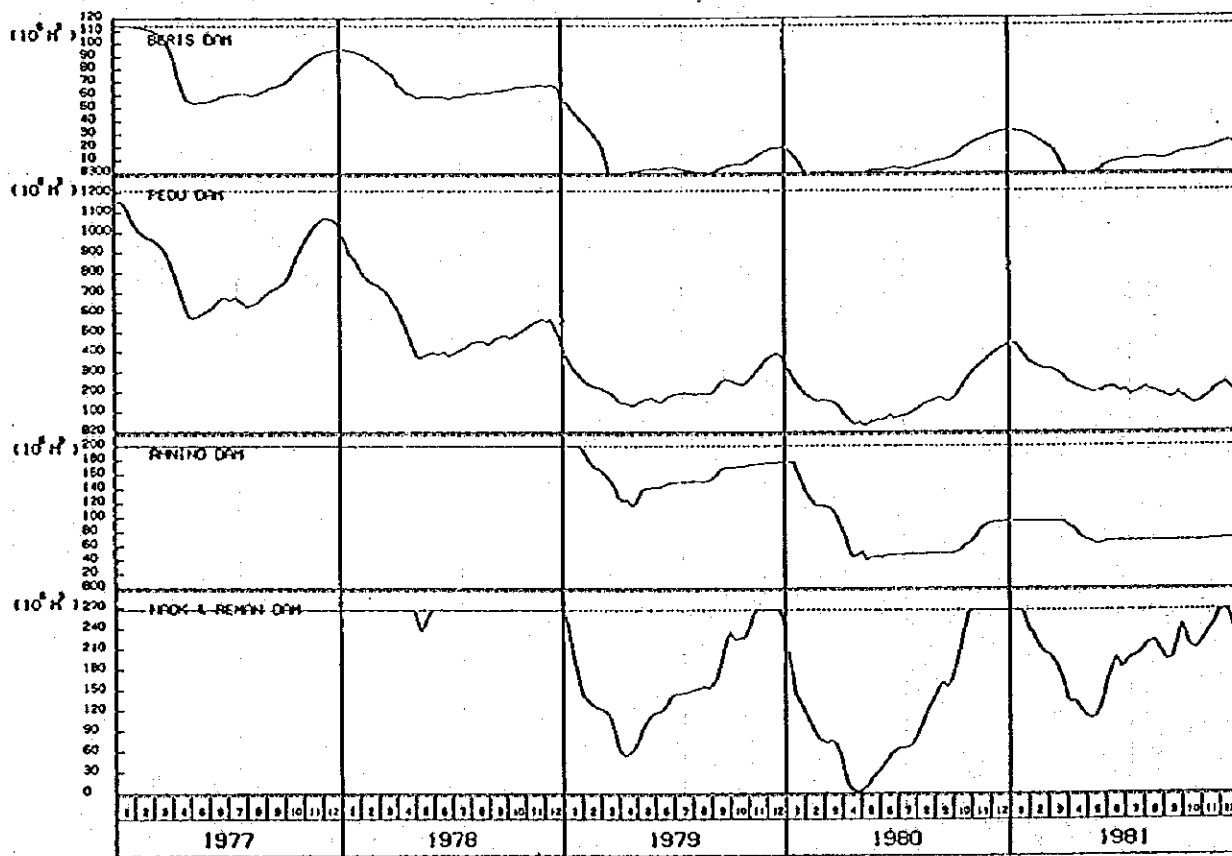
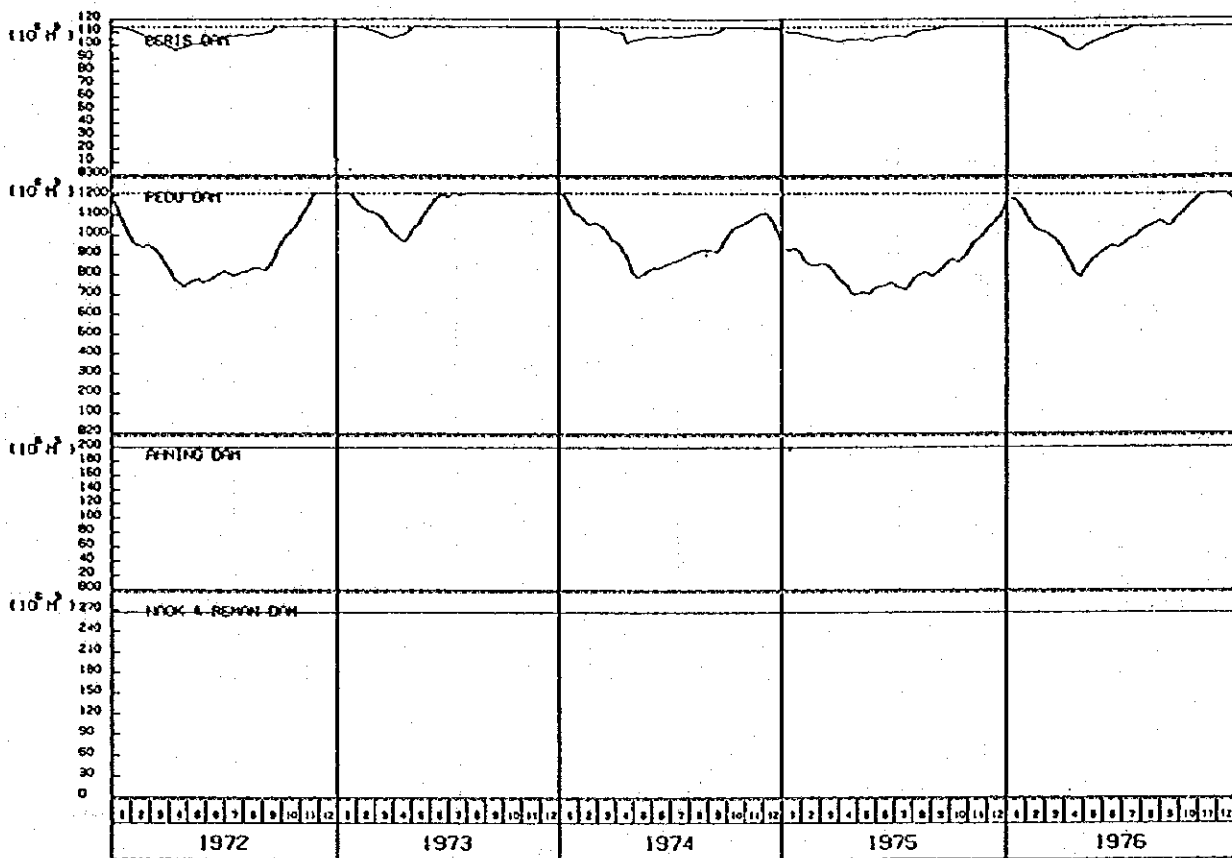


COMPREHENSIVE MANAGEMENT PLAN OF
MUDA RIVER BASIN

JAPAN INTERNATIONAL COOPERATION AGENCY

FIG.III. 5.4.1 RESERVOIR STORAGE MOVEMENT OF
OBJECTIVE DAMS (IN CASE OF
INTEGRATED DAM RESERVOIR
OPERATION)

(1/3)

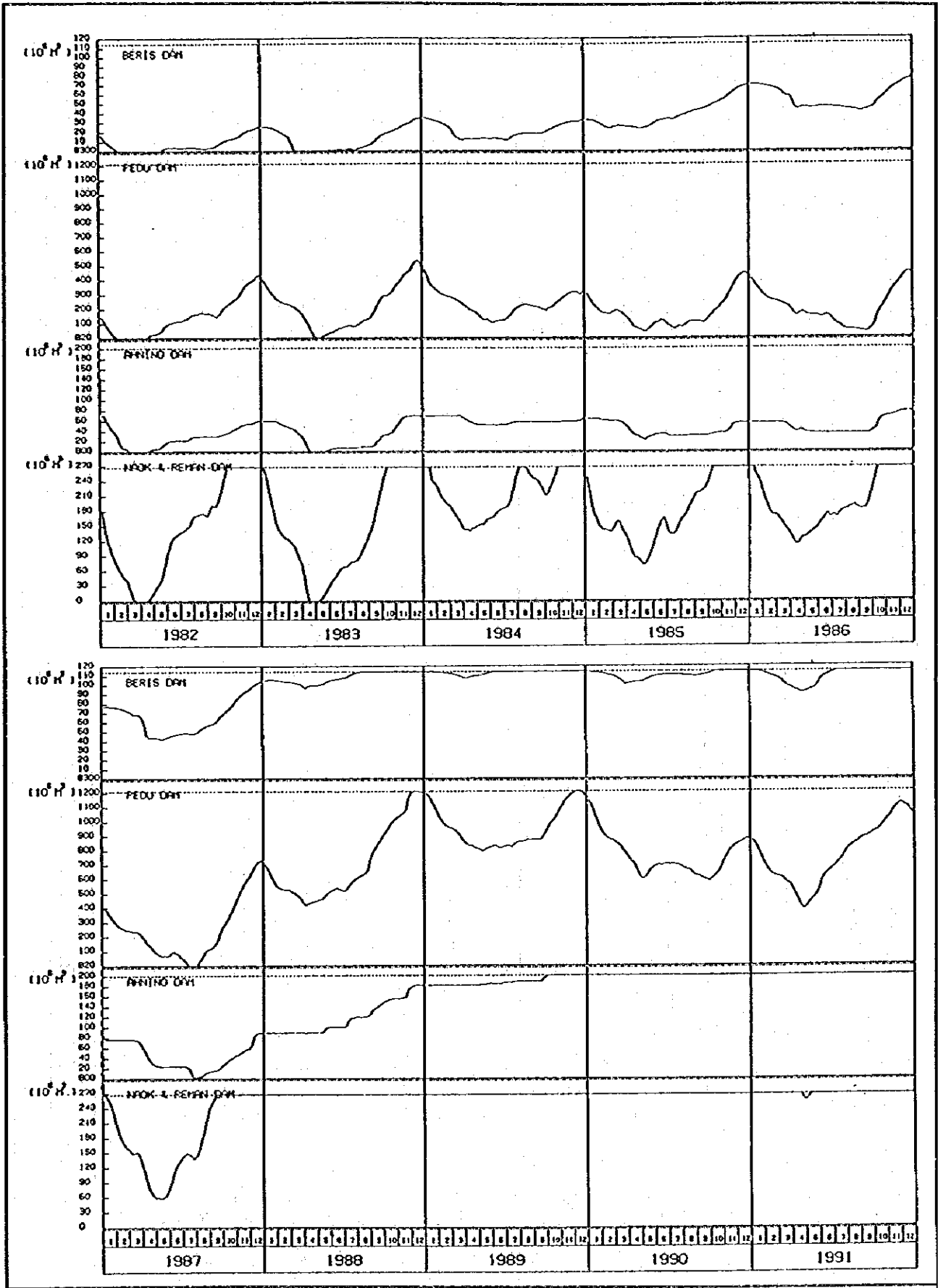


COMPREHENSIVE MANAGEMENT PLAN OF
MUDA RIVER BASIN

JAPAN INTERNATIONAL COOPERATION AGENCY

FIG. III. 5.4.1 RESERVOIR STORAGE MOVEMENT OF
OBJECTIVE DAMS (IN CASE OF
INTEGRATED DAM RESERVOIR
OPERATION)

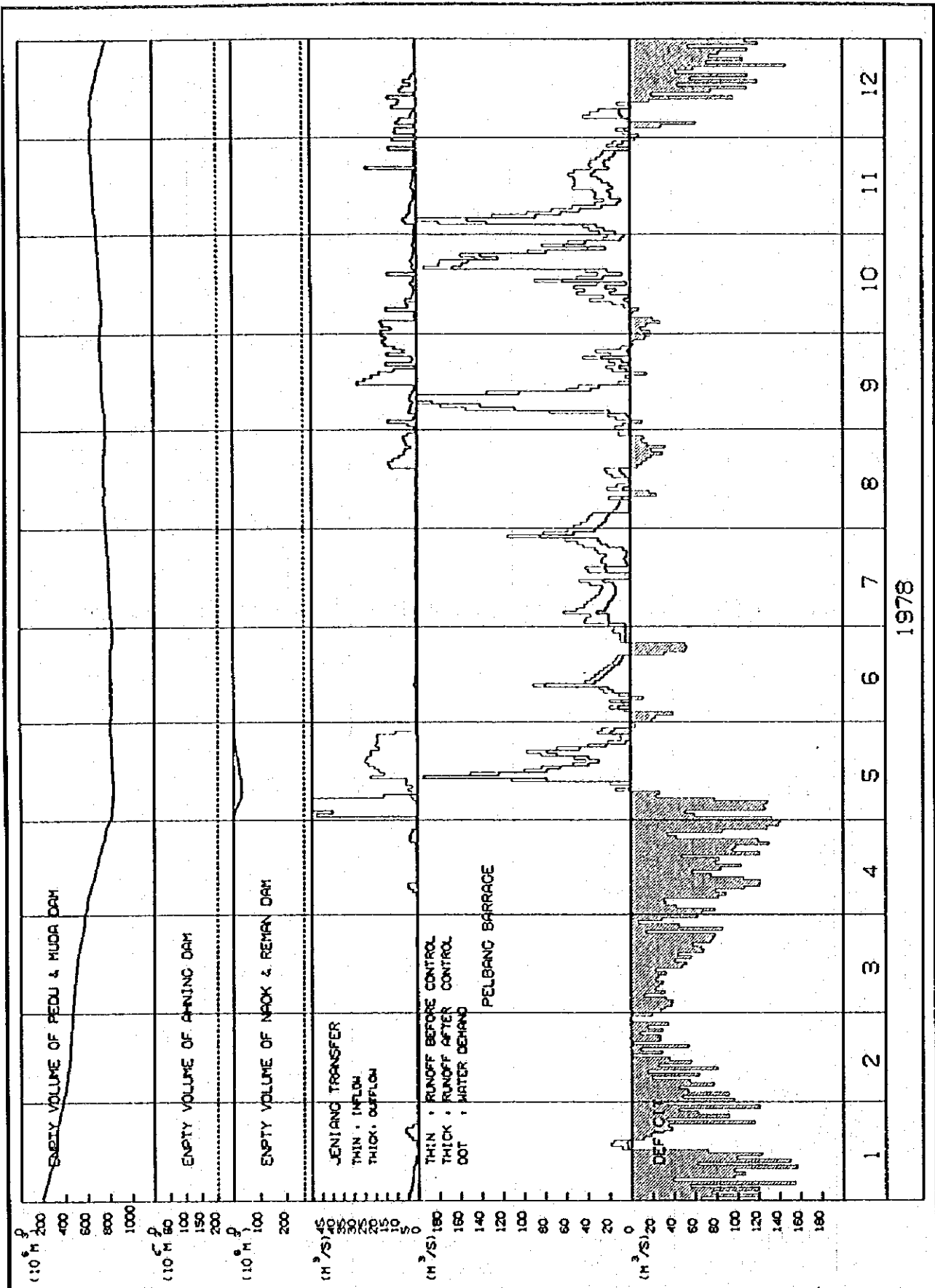
(2/3)



COMPREHENSIVE MANAGEMENT PLAN OF
MUDA RIVER BASIN

JAPAN INTERNATIONAL COOPERATION AGENCY

FIG.III. 5.4.1 RESERVOIR STORAGE MOVEMENT OF
OBJECTIVE DAMS (IN CASE OF
INTEGRATED DAM RESERVOIR
OPERATION) (3/3)

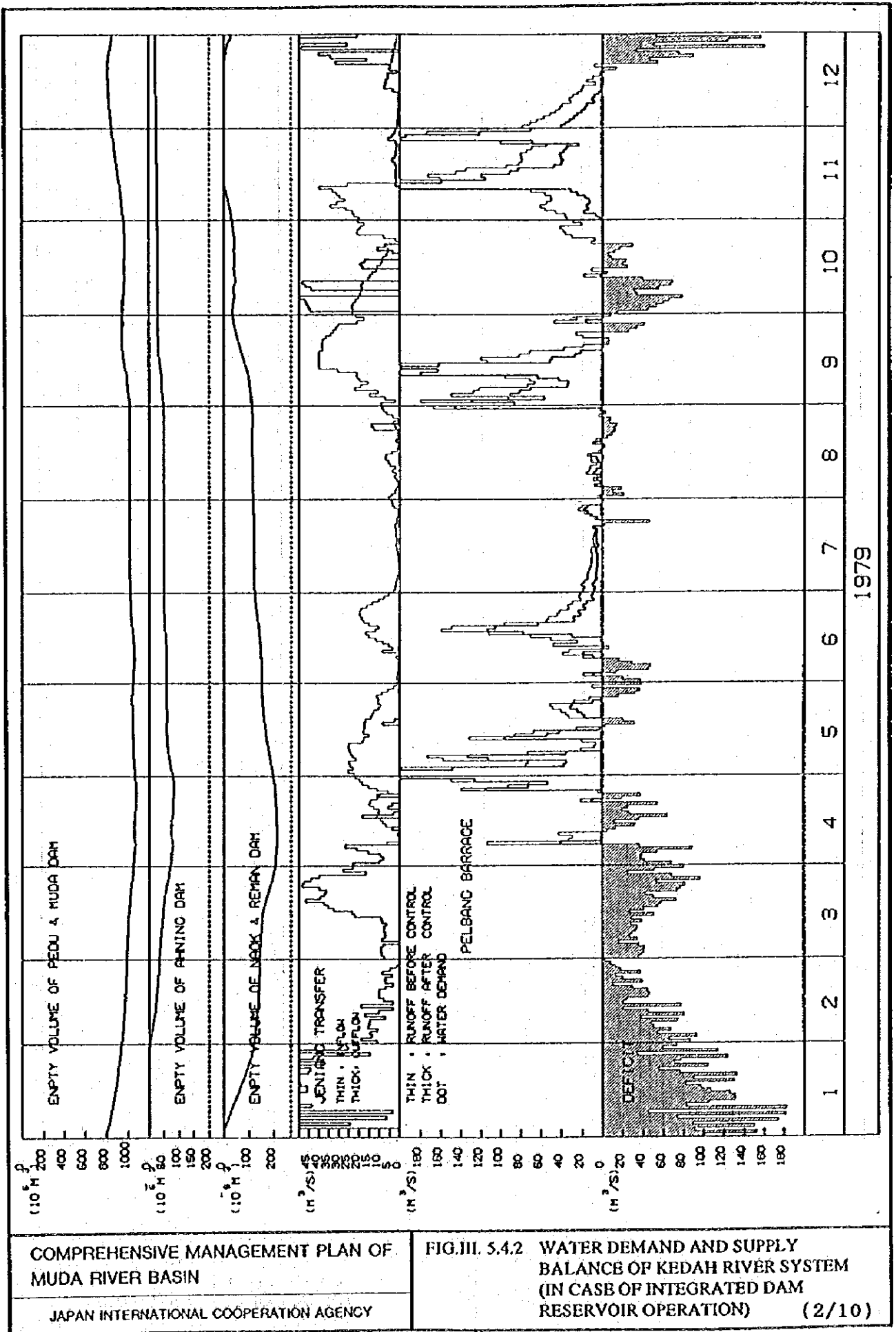


1978

COMPREHENSIVE MANAGEMENT PLAN OF MUDA RIVER BASIN

JAPAN INTERNATIONAL COOPERATION AGENCY

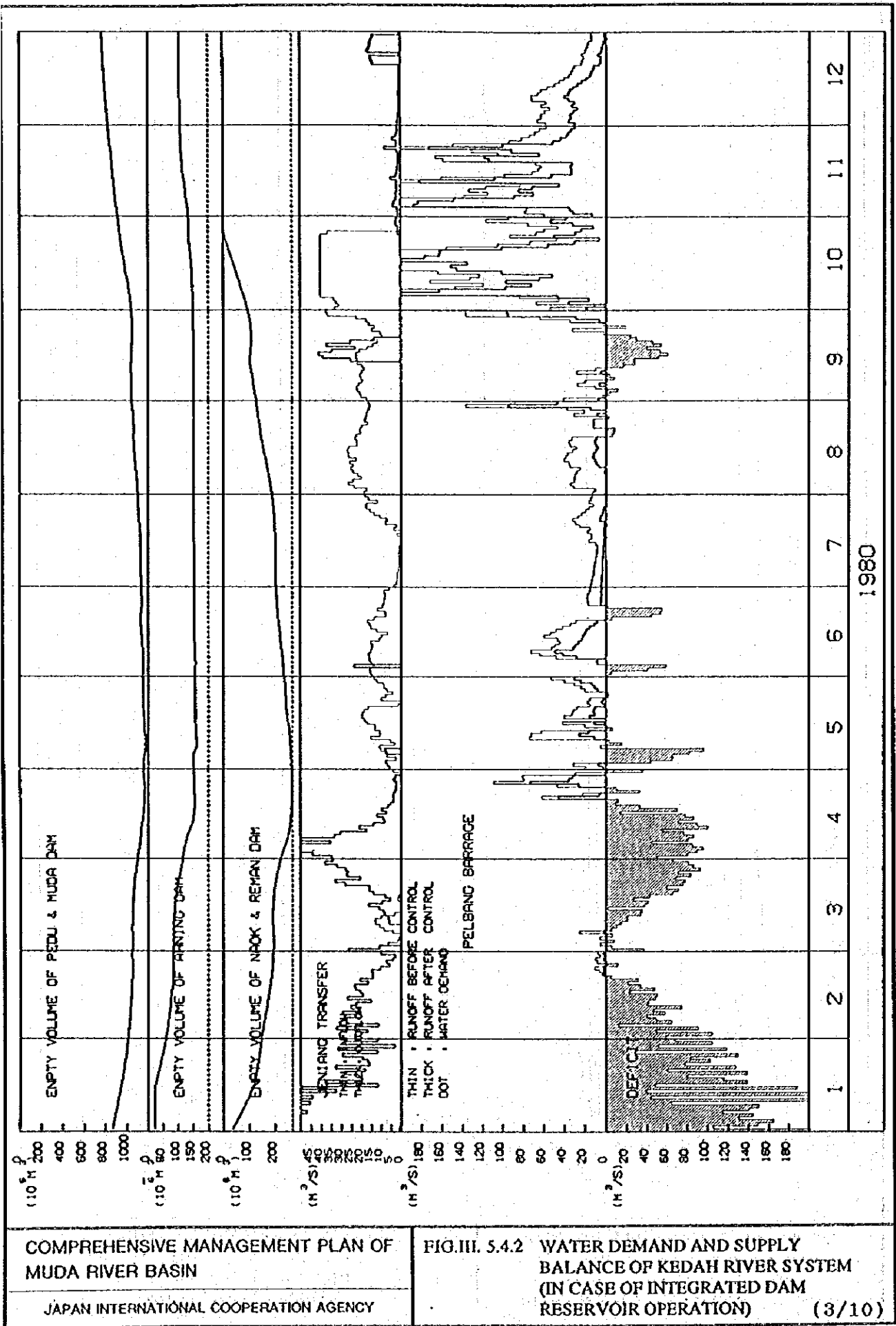
FIG.III. 5.4.2 WATER DEMAND AND SUPPLY BALANCE OF KEDAH RIVER SYSTEM (IN CASE OF INTEGRATED DAM RESERVOIR OPERATION) (1/10)

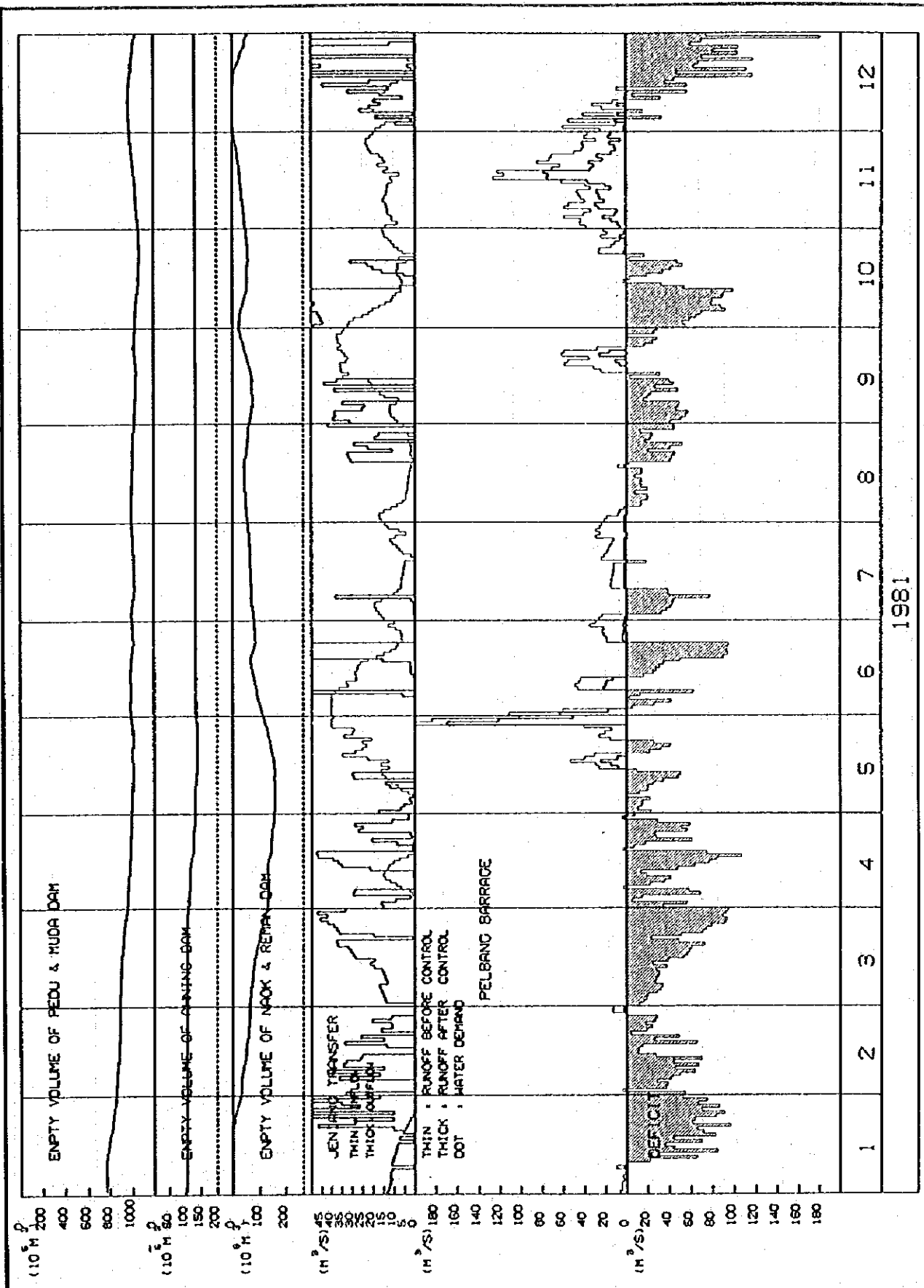


COMPREHENSIVE MANAGEMENT PLAN OF
MUDA RIVER BASIN

JAPAN INTERNATIONAL COOPERATION AGENCY

FIG.III. 5.4.2 WATER DEMAND AND SUPPLY
BALANCE OF KEDAH RIVER SYSTEM
(IN CASE OF INTEGRATED DAM
RESERVOIR OPERATION) (2/10)



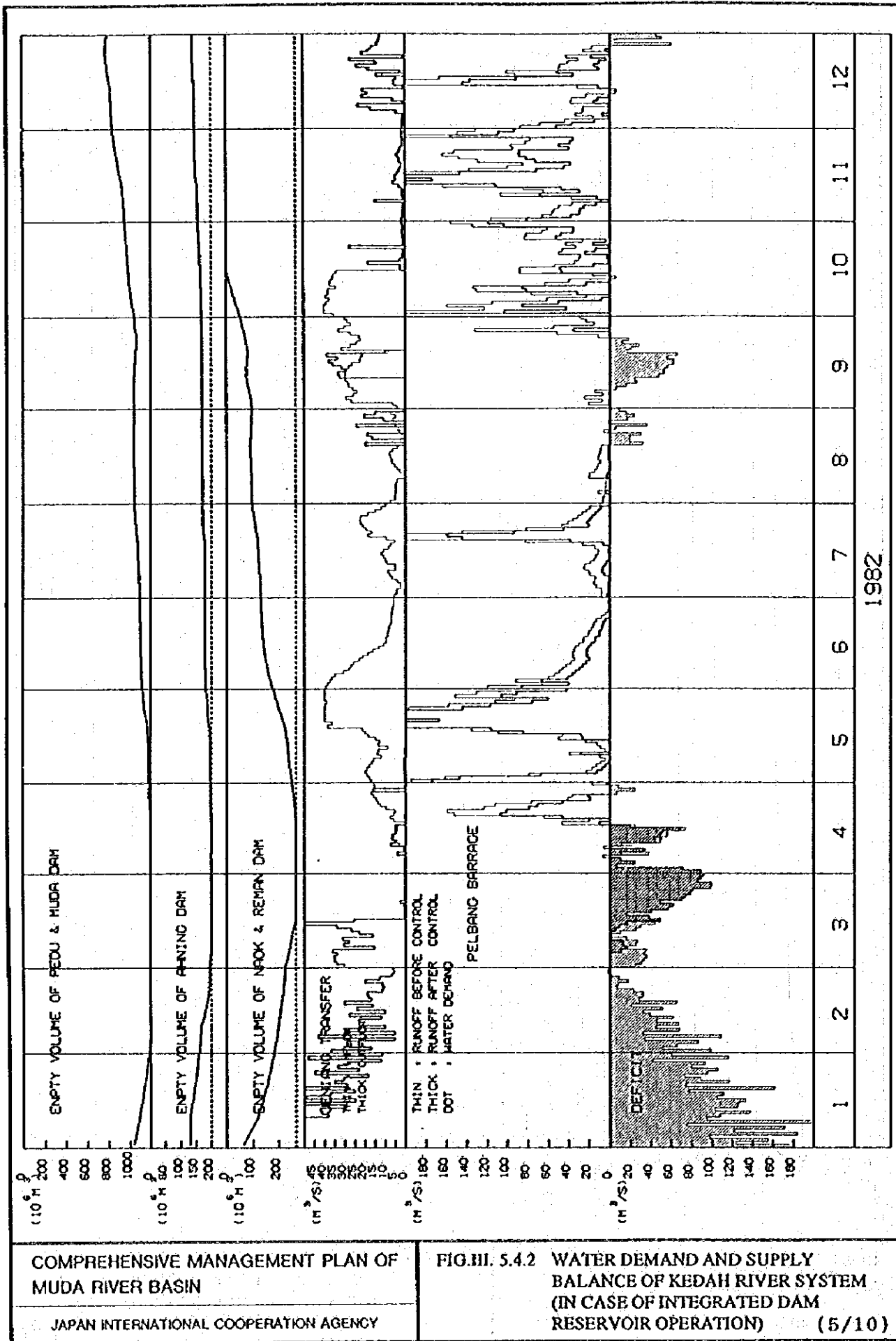


1981

COMPREHENSIVE MANAGEMENT PLAN OF
MUDA RIVER BASIN

JAPAN INTERNATIONAL COOPERATION AGENCY

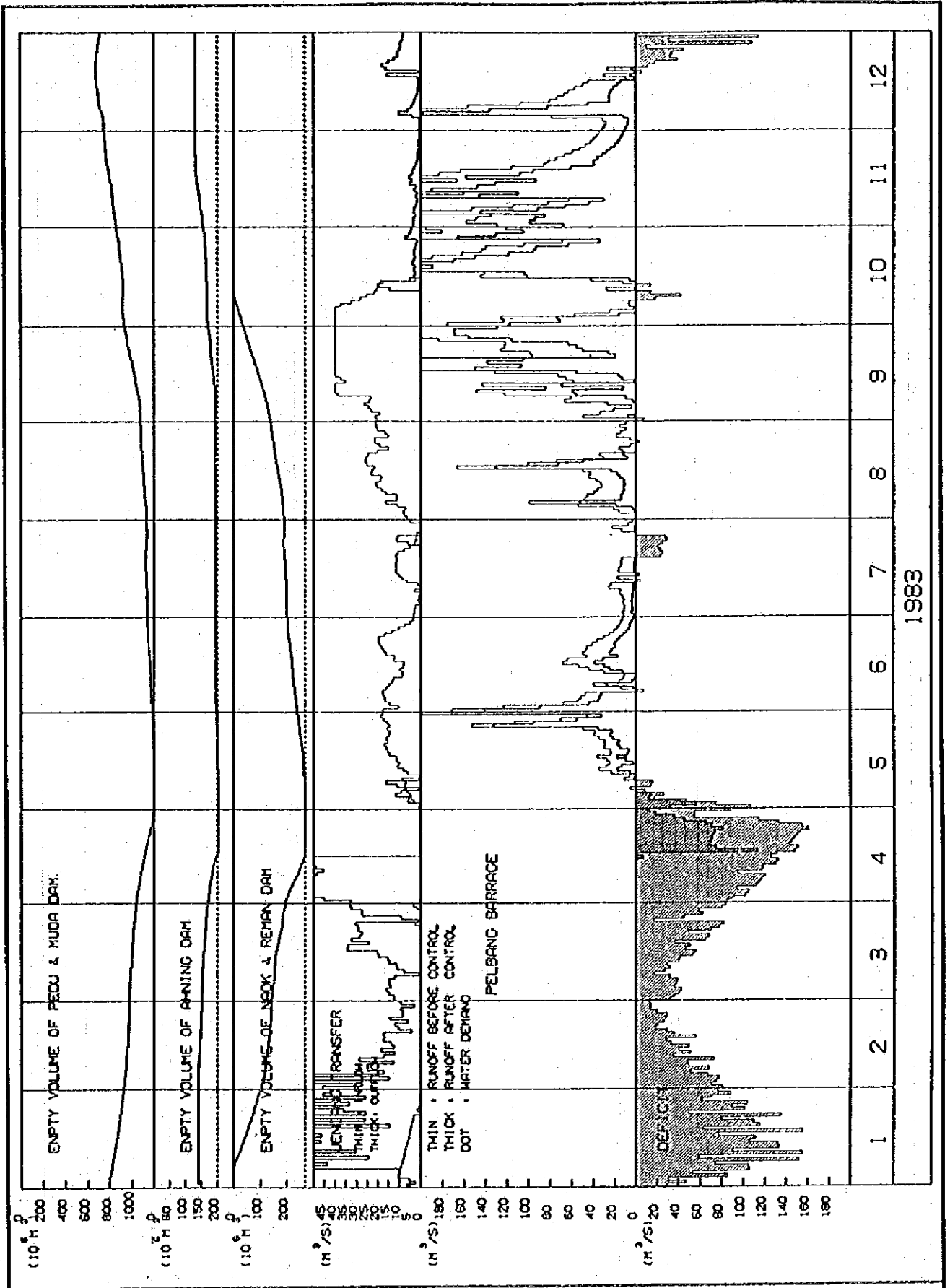
FIG. III. 5.4.2 WATER DEMAND AND SUPPLY
BALANCE OF KEDAH RIVER SYSTEM
(IN CASE OF INTEGRATED DAM
RESERVOIR OPERATION) (4/10)



COMPREHENSIVE MANAGEMENT PLAN OF MUDA RIVER BASIN

JAPAN INTERNATIONAL COOPERATION AGENCY

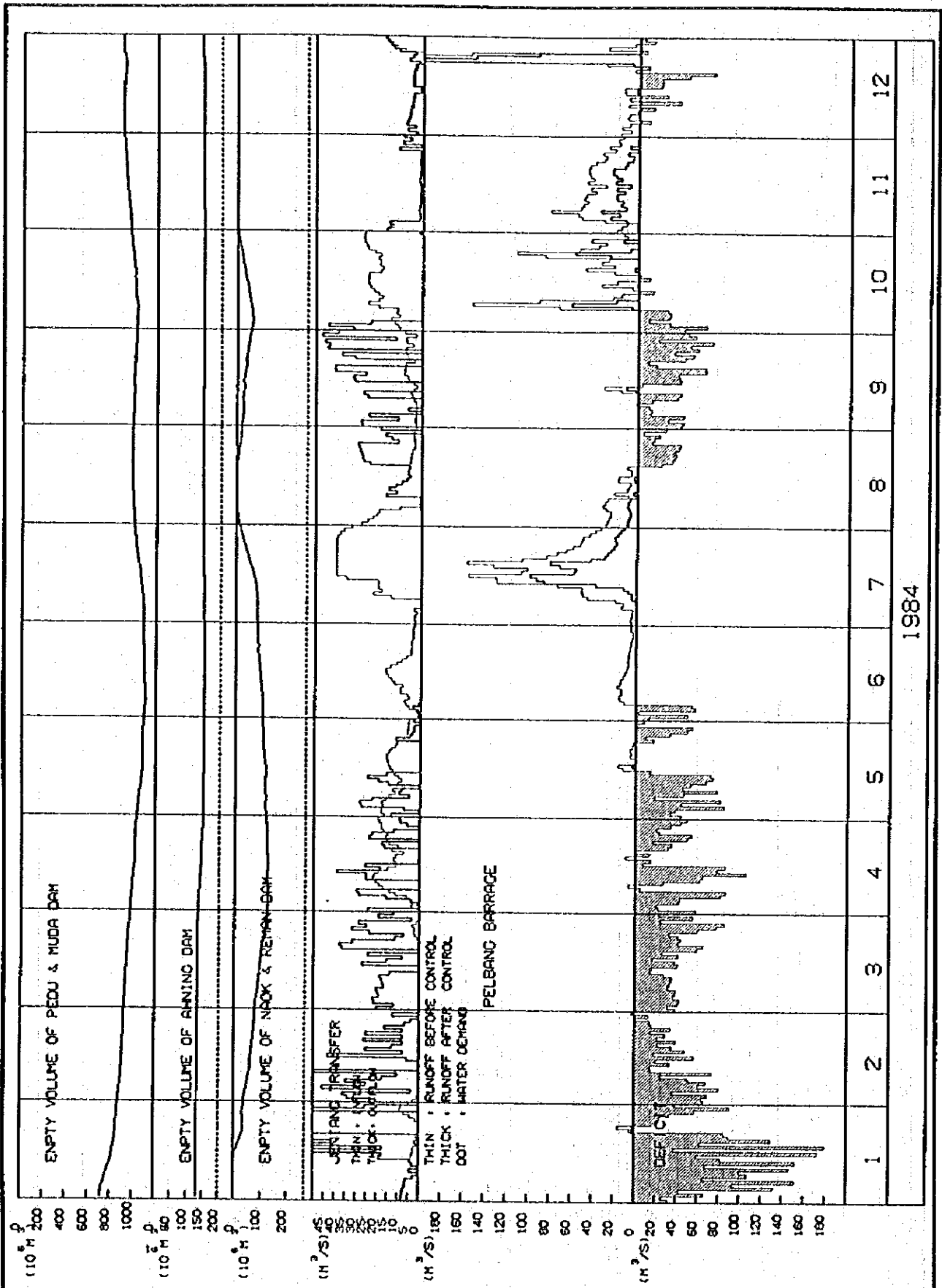
FIG.III. 5.4.2 WATER DEMAND AND SUPPLY BALANCE OF KEDAH RIVER SYSTEM (IN CASE OF INTEGRATED DAM RESERVOIR OPERATION) (5/10)



COMPREHENSIVE MANAGEMENT PLAN OF
MUDA RIVER BASIN

JAPAN INTERNATIONAL COOPERATION AGENCY

FIG.III. 5.4.2 WATER DEMAND AND SUPPLY
BALANCE OF KEDAH RIVER SYSTEM
(IN CASE OF INTEGRATED DAM
RESERVOIR OPERATION) (6/10)

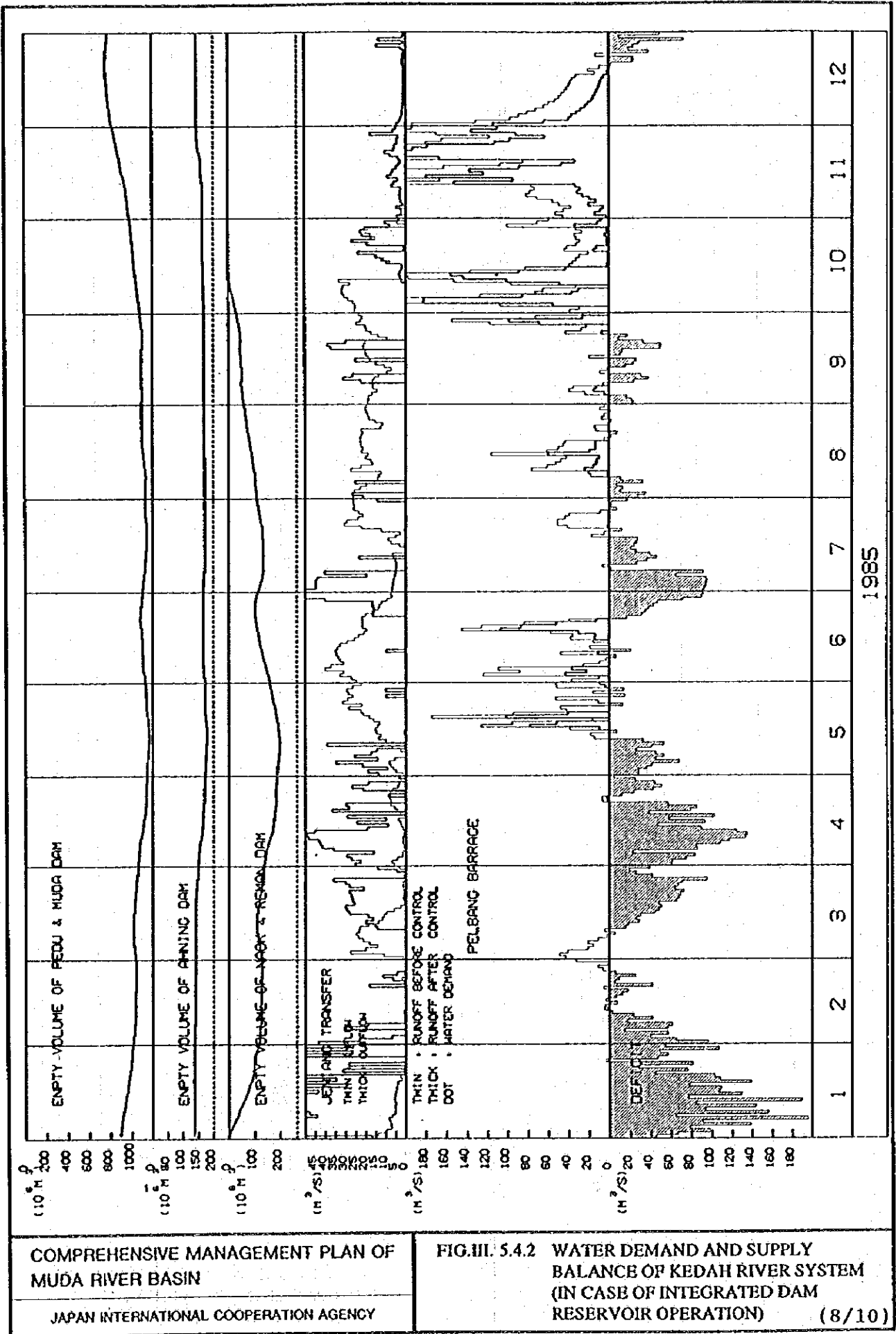


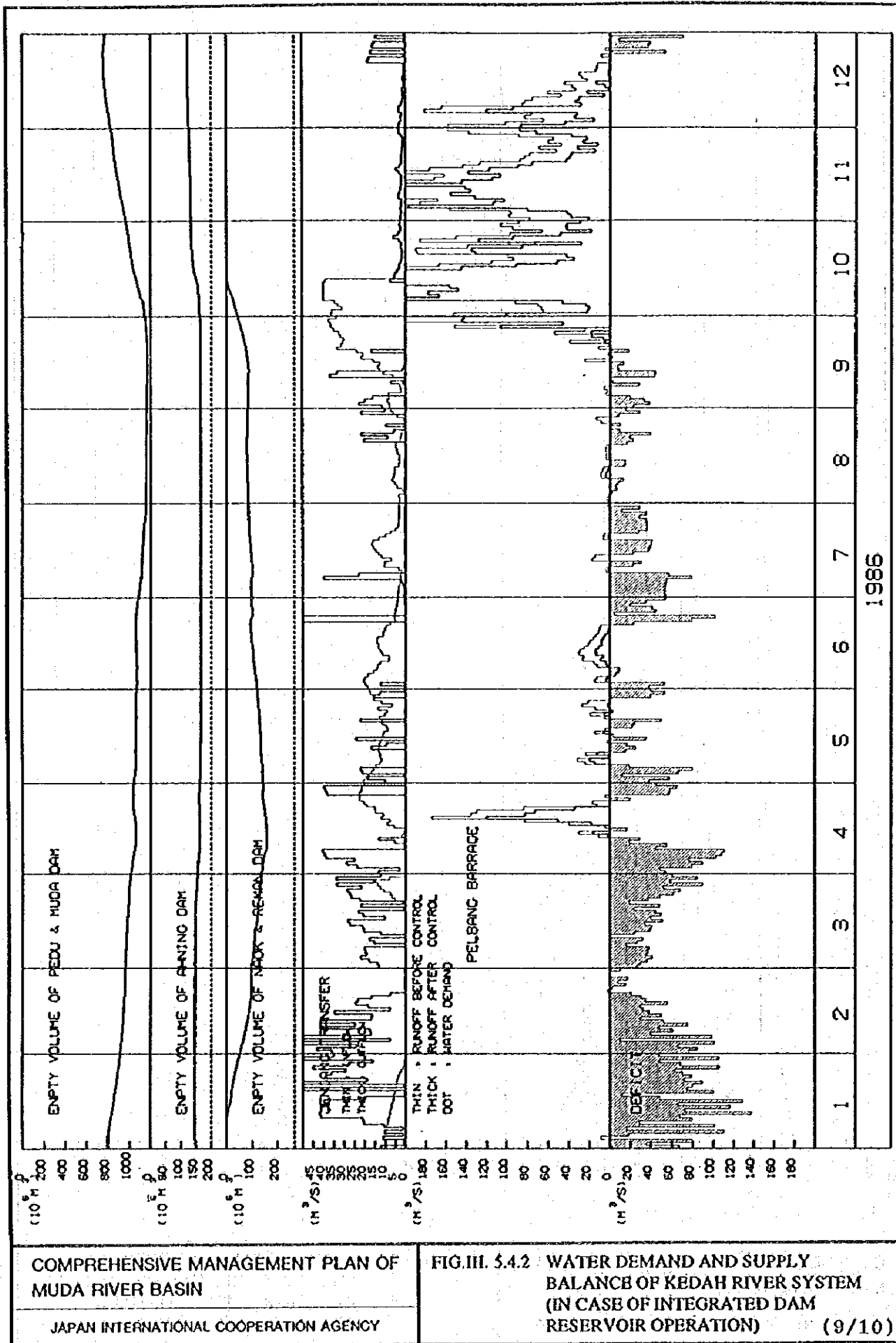
1984

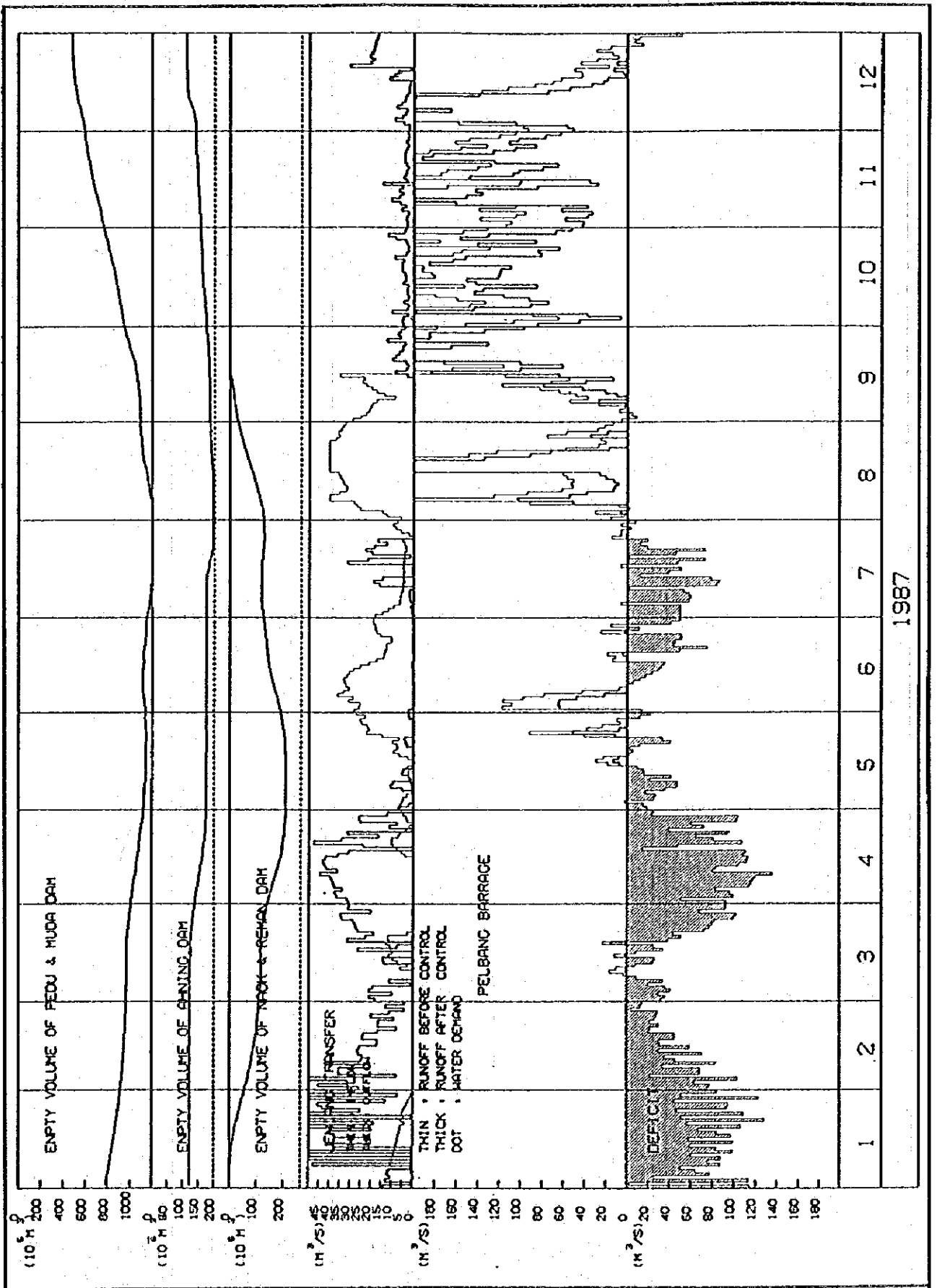
COMPREHENSIVE MANAGEMENT PLAN OF
MUDA RIVER BASIN

JAPAN INTERNATIONAL COOPERATION AGENCY

FIG.III. 5.4.2 WATER DEMAND AND SUPPLY
BALANCE OF KEDAH RIVER SYSTEM
(IN CASE OF INTEGRATED DAM
RESERVOIR OPERATION) (7/10)





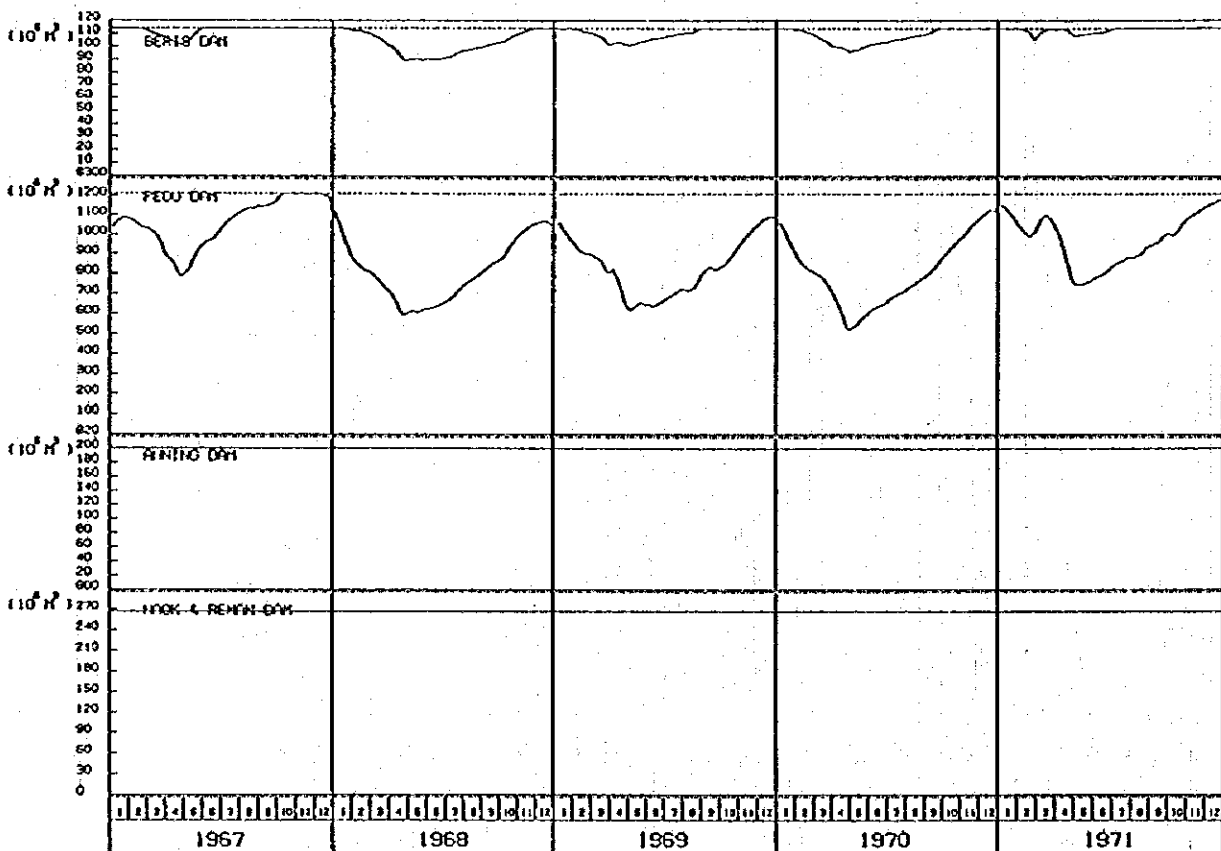
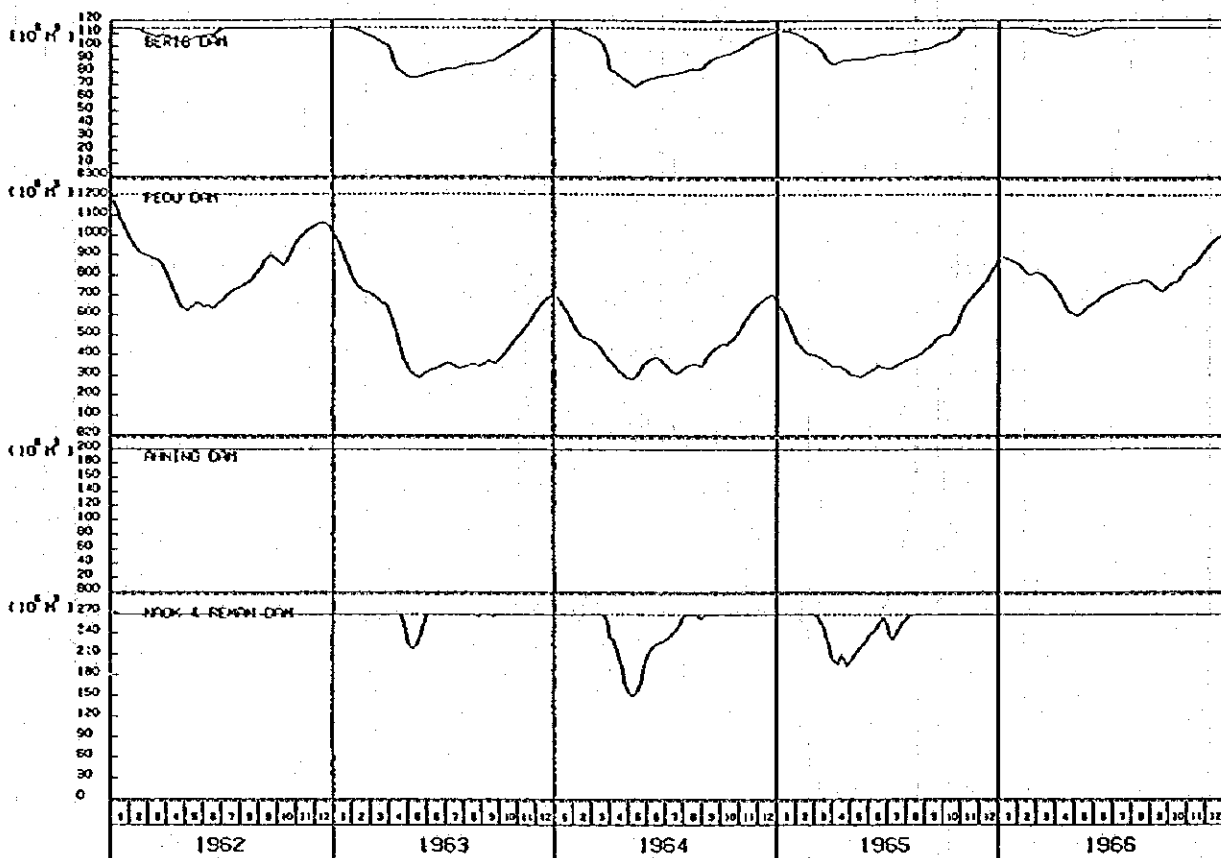


1987

COMPREHENSIVE MANAGEMENT PLAN OF MUDA RIVER BASIN

JAPAN INTERNATIONAL COOPERATION AGENCY

FIG.III. 5.4.2 WATER DEMAND AND SUPPLY BALANCE OF KEDAH RIVER SYSTEM (IN CASE OF INTEGRATED DAM RESERVOIR OPERATION) (10/10)

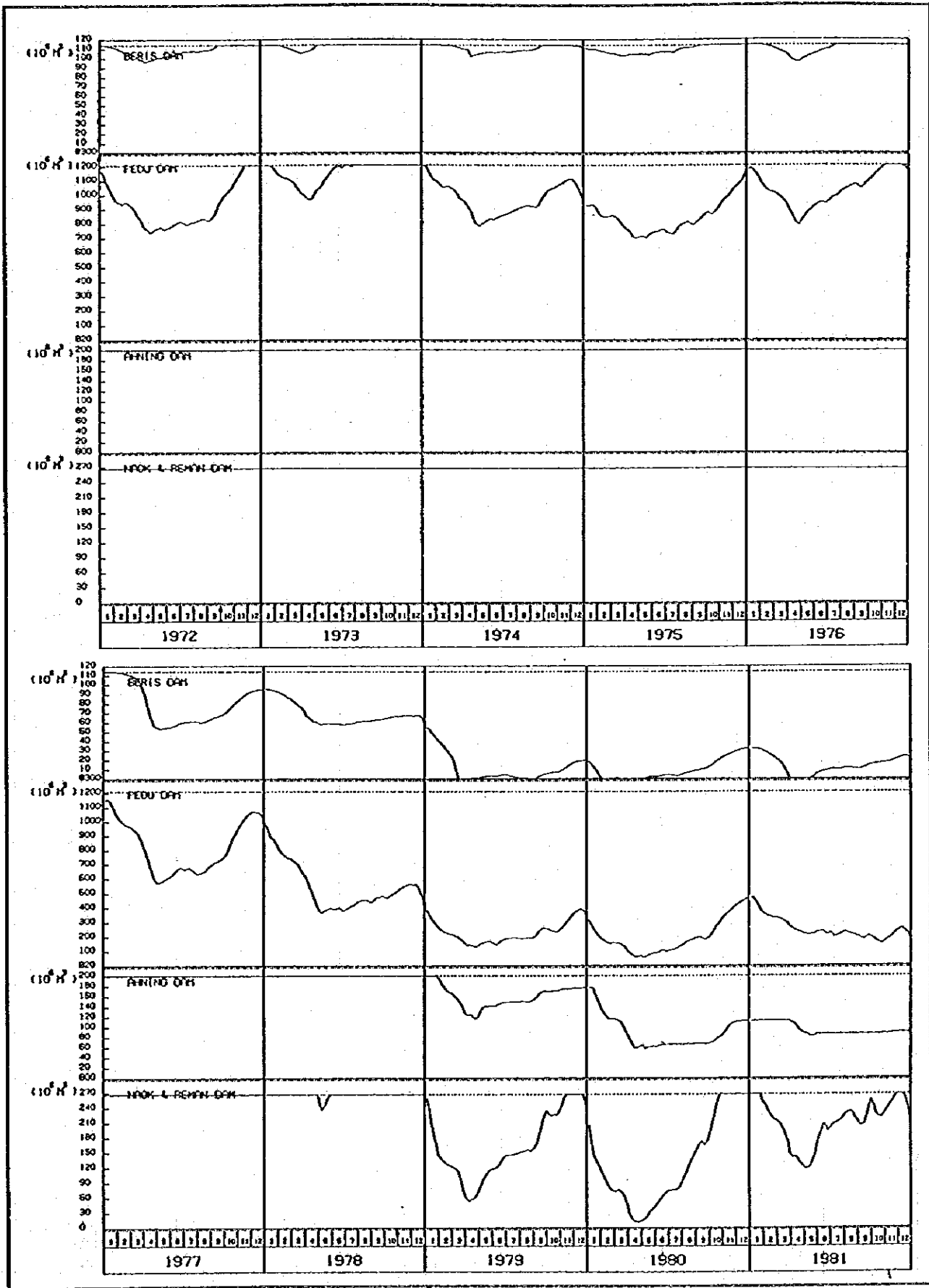


COMPREHENSIVE MANAGEMENT PLAN OF
MUDA RIVER BASIN

JAPAN INTERNATIONAL COOPERATION AGENCY

FIG.III. 5.4.3 RESERVOIR STORAGE MOVEMENT OF
OBJECTIVE DAMS (IN CASE OF WATER
SAVING OPERATION)

(1/3)

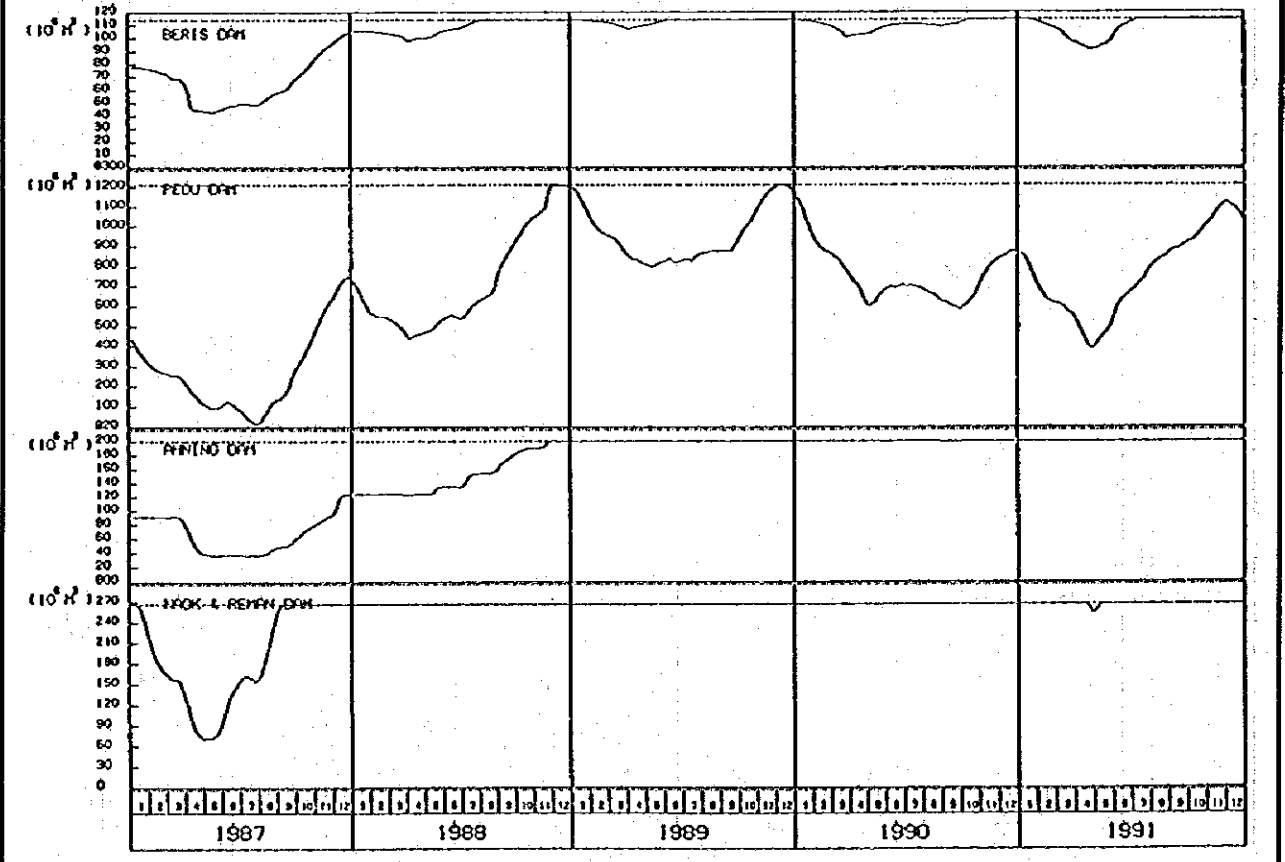
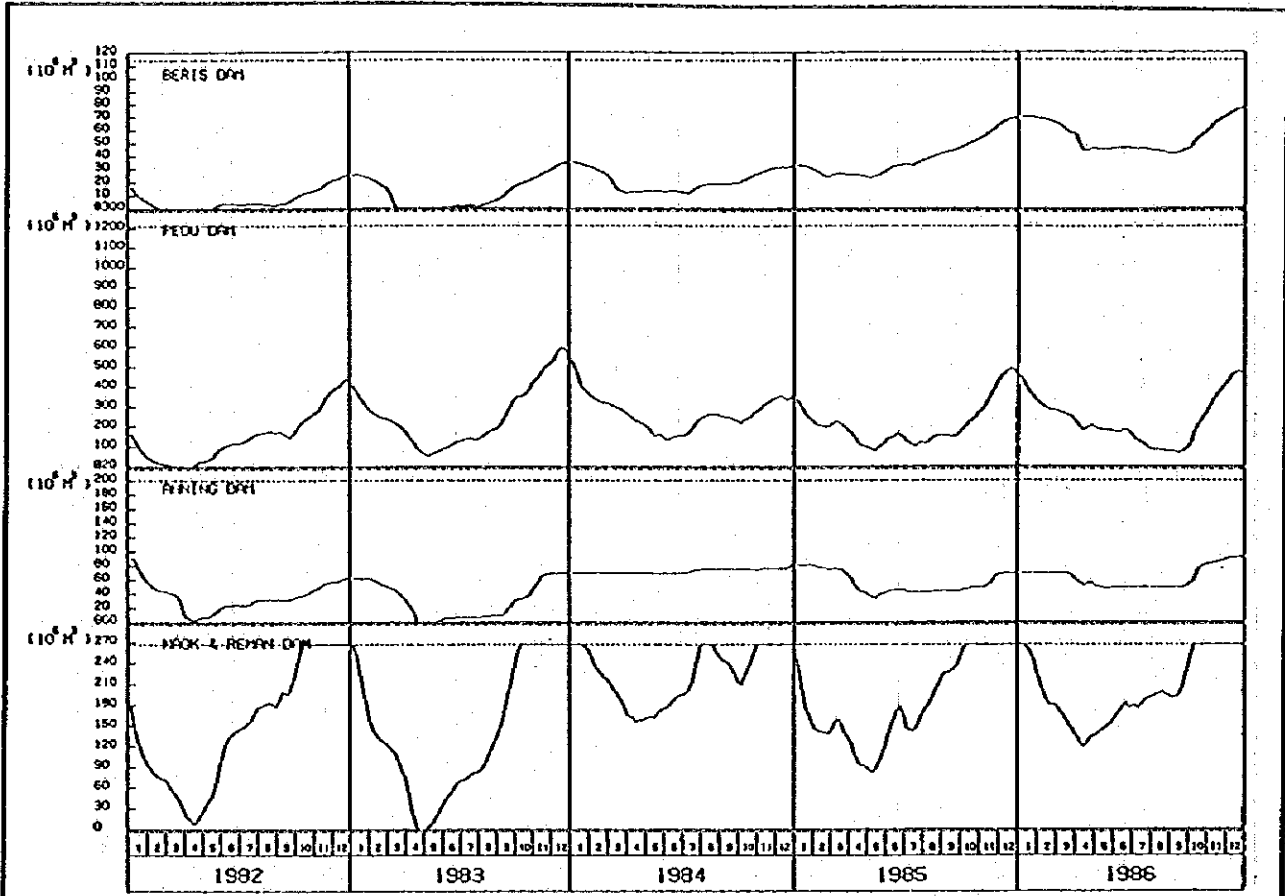


COMPREHENSIVE MANAGEMENT PLAN OF
MUDA RIVER BASIN

JAPAN INTERNATIONAL COOPERATION AGENCY

FIG.III. 5.4.3 RESERVOIR STORAGE MOVEMENT OF
OBJECTIVE DAMS (IN CASE OF WATER
SAVING OPERATION)

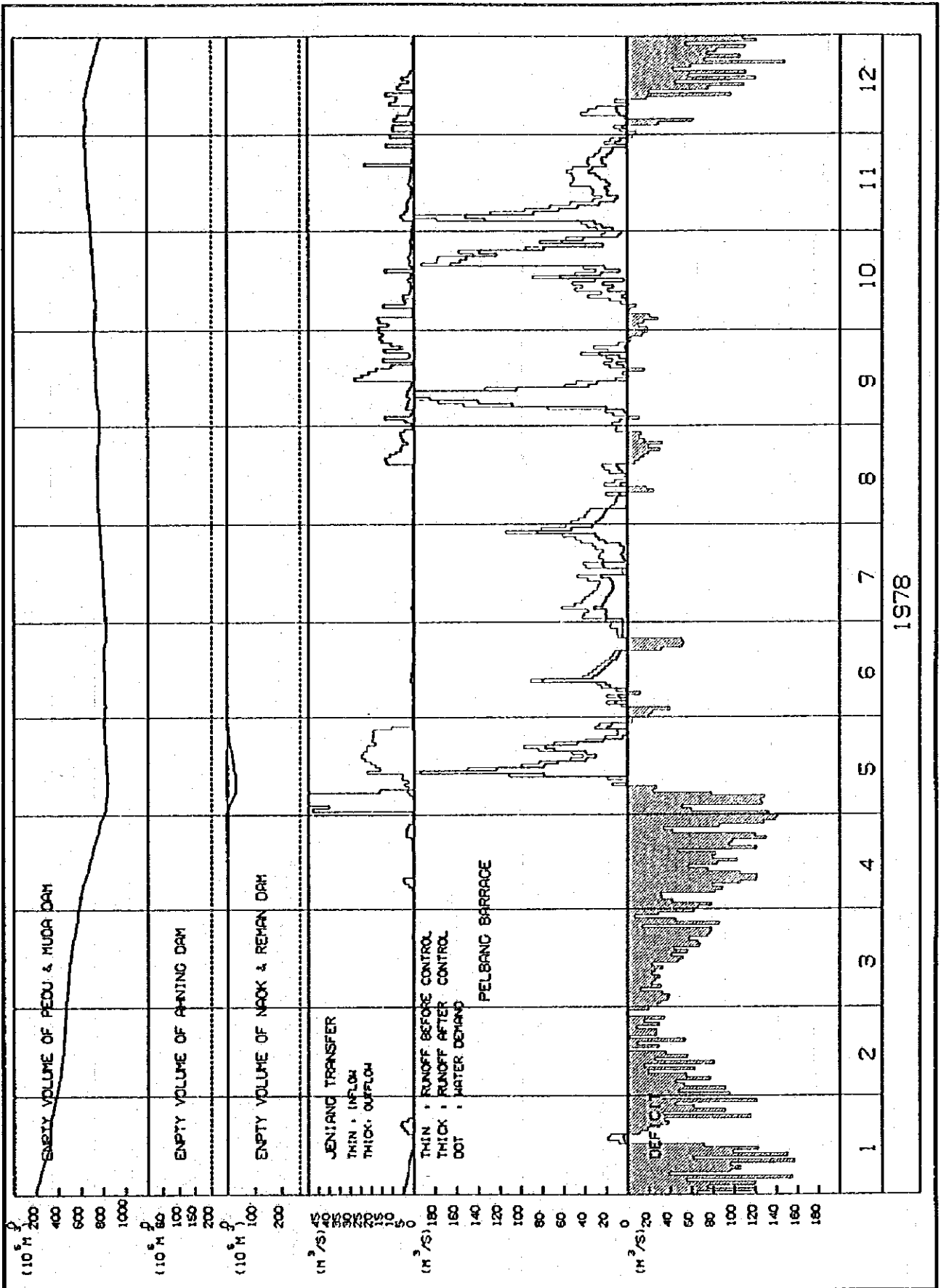
(2/3)



COMPREHENSIVE MANAGEMENT PLAN OF
MUDA RIVER BASIN

JAPAN INTERNATIONAL COOPERATION AGENCY

FIG.III. 5.4.3 RESERVOIR STORAGE MOVEMENT OF OBJECTIVE DAMS (IN CASE OF WATER SAVING OPERATION) (3/3)

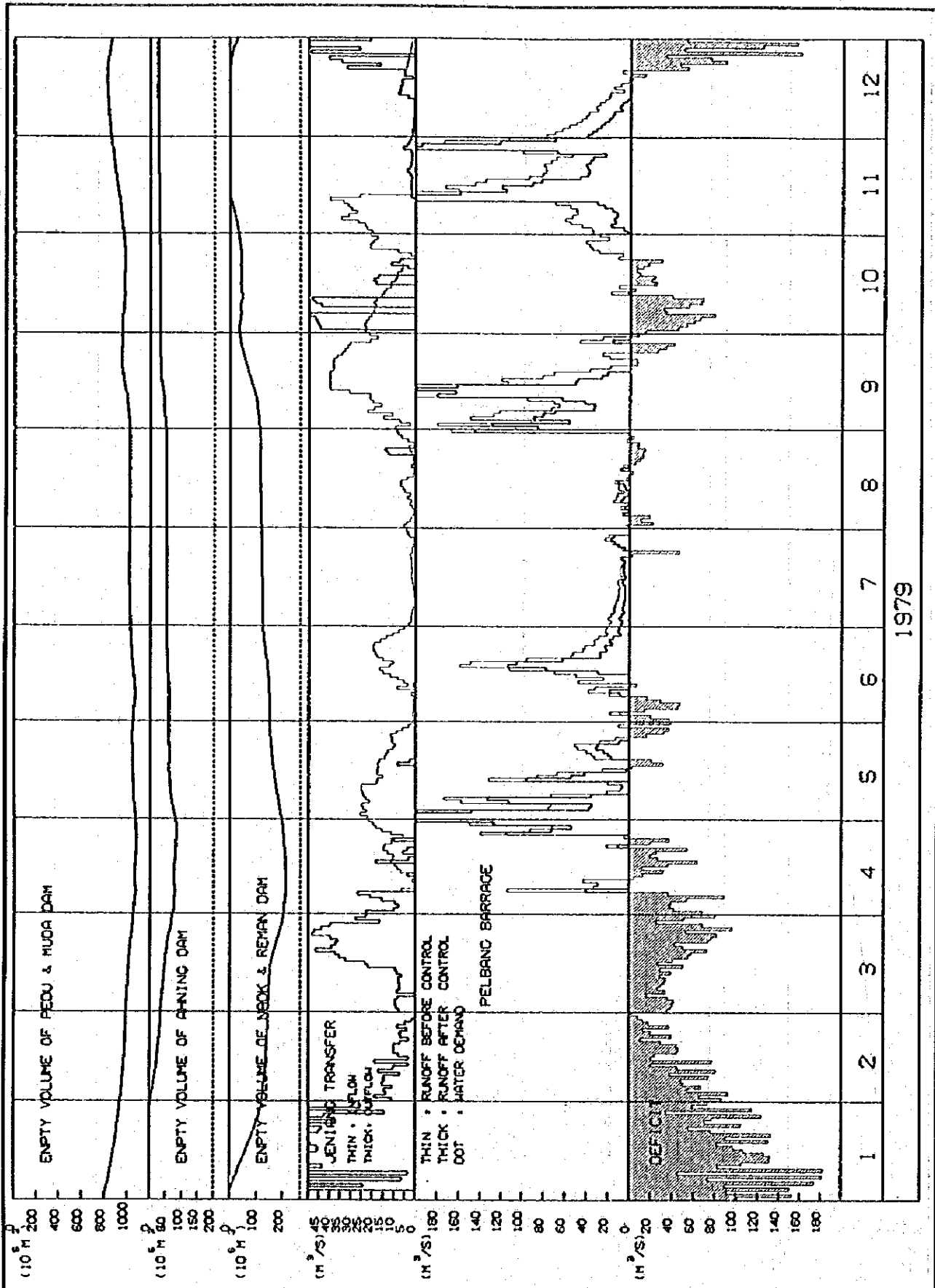


COMPREHENSIVE MANAGEMENT PLAN OF MUDA RIVER BASIN

JAPAN INTERNATIONAL COOPERATION AGENCY

FIG.III. 5.4.4 WATER DEMAND AND SUPPLY BALANCE OF KEDAH RIVER SYSTEM (IN CASE OF WATER SAVING OPERATION)

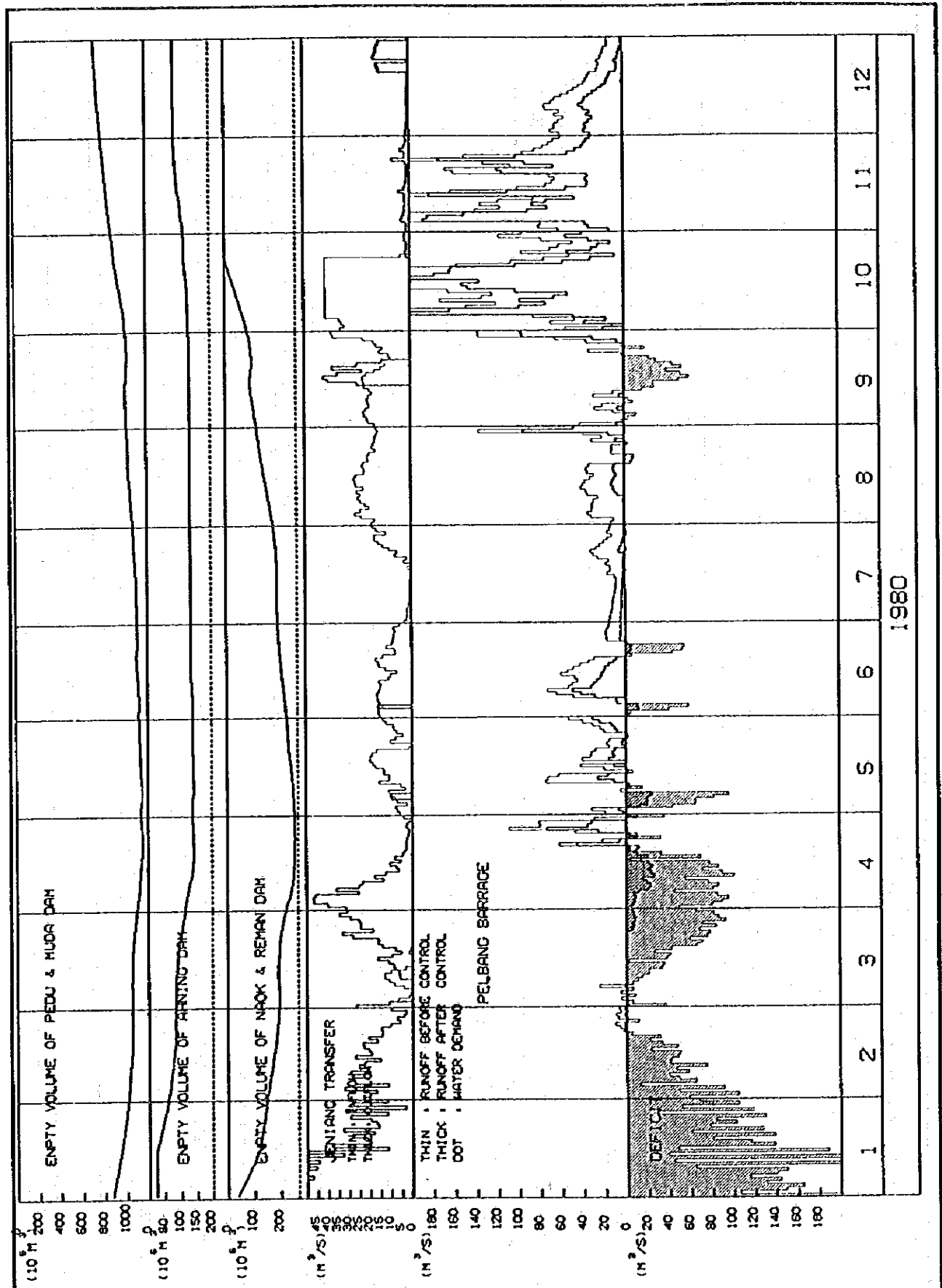
(1/10)



COMPREHENSIVE MANAGEMENT PLAN OF
MUDA RIVER BASIN

JAPAN INTERNATIONAL COOPERATION AGENCY

FIG.III. 5.4.4 WATER DEMAND AND SUPPLY
BALANCE OF KEDAH RIVER SYSTEM
(IN CASE OF WATER SAVING
OPERATION) (2/10)

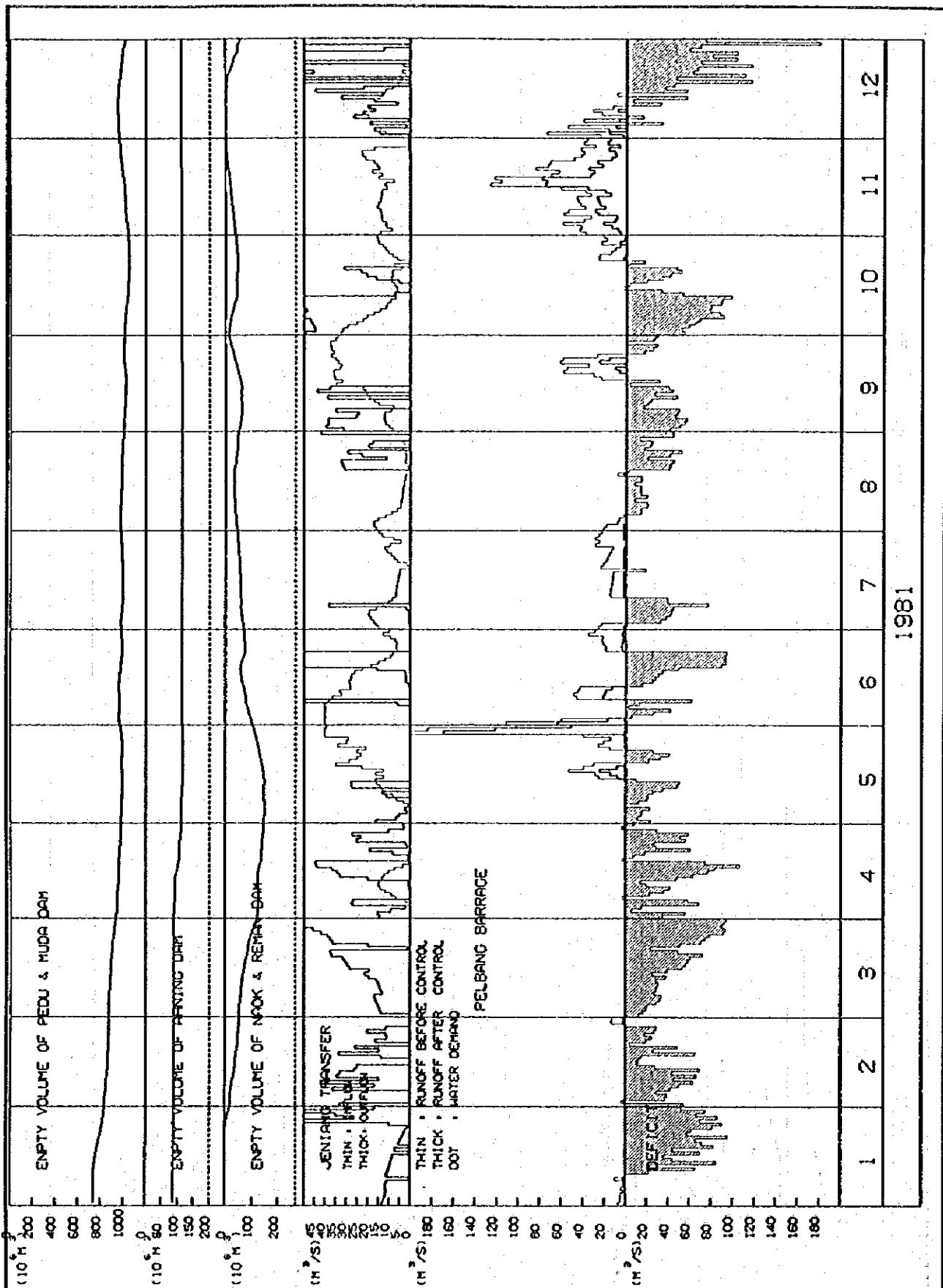


COMPREHENSIVE MANAGEMENT PLAN OF MUDA RIVER BASIN

JAPAN INTERNATIONAL COOPERATION AGENCY

FIG. III. 5.4.4 WATER DEMAND AND SUPPLY BALANCE OF KEDAH RIVER SYSTEM (IN CASE OF WATER SAVING OPERATION)

(3/10)

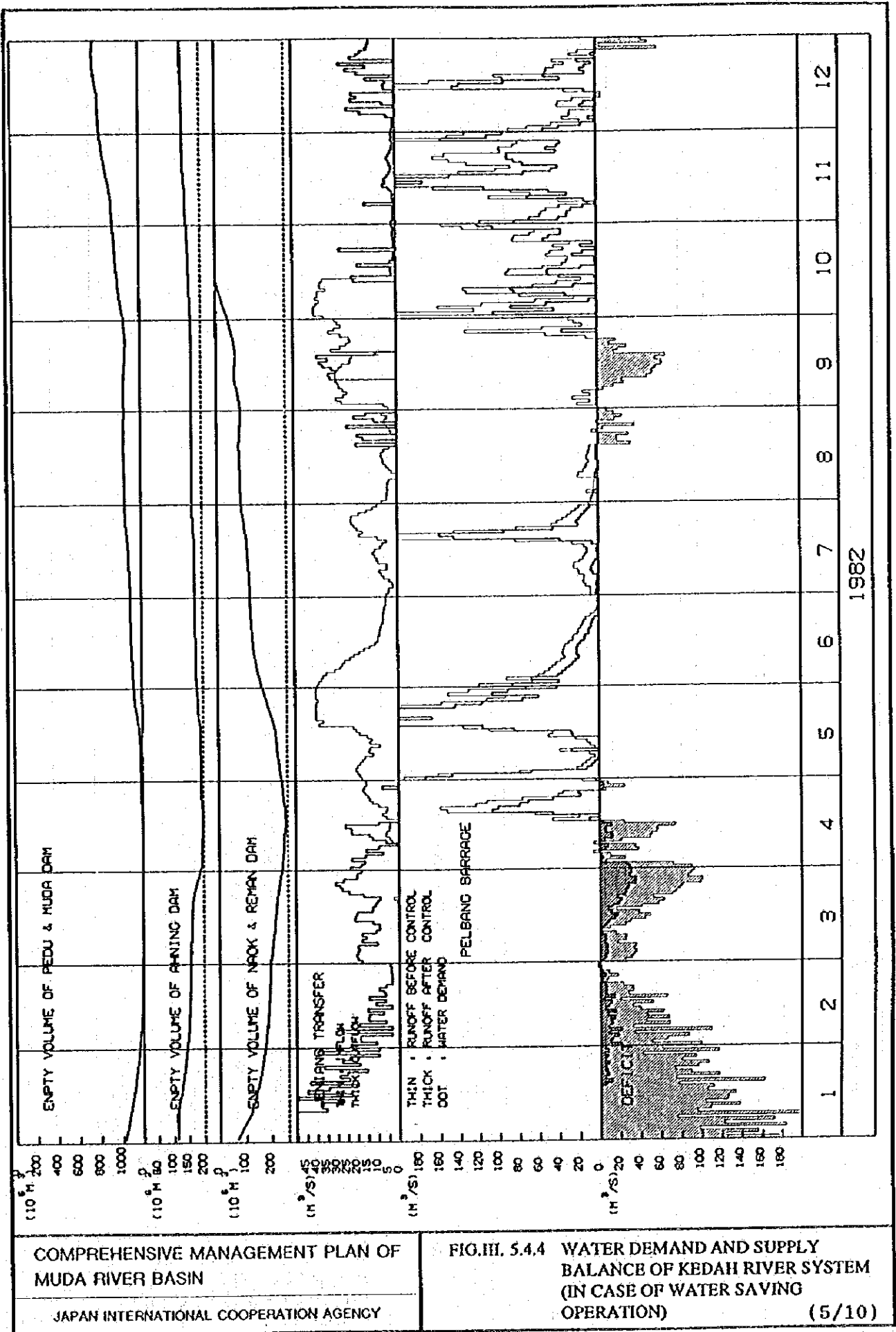


COMPREHENSIVE MANAGEMENT PLAN OF
 MUDA RIVER BASIN

JAPAN INTERNATIONAL COOPERATION AGENCY

FIG.III. 5.4.4 WATER DEMAND AND SUPPLY
 BALANCE OF KEDAH RIVER SYSTEM
 (IN CASE OF WATER SAVING
 OPERATION)

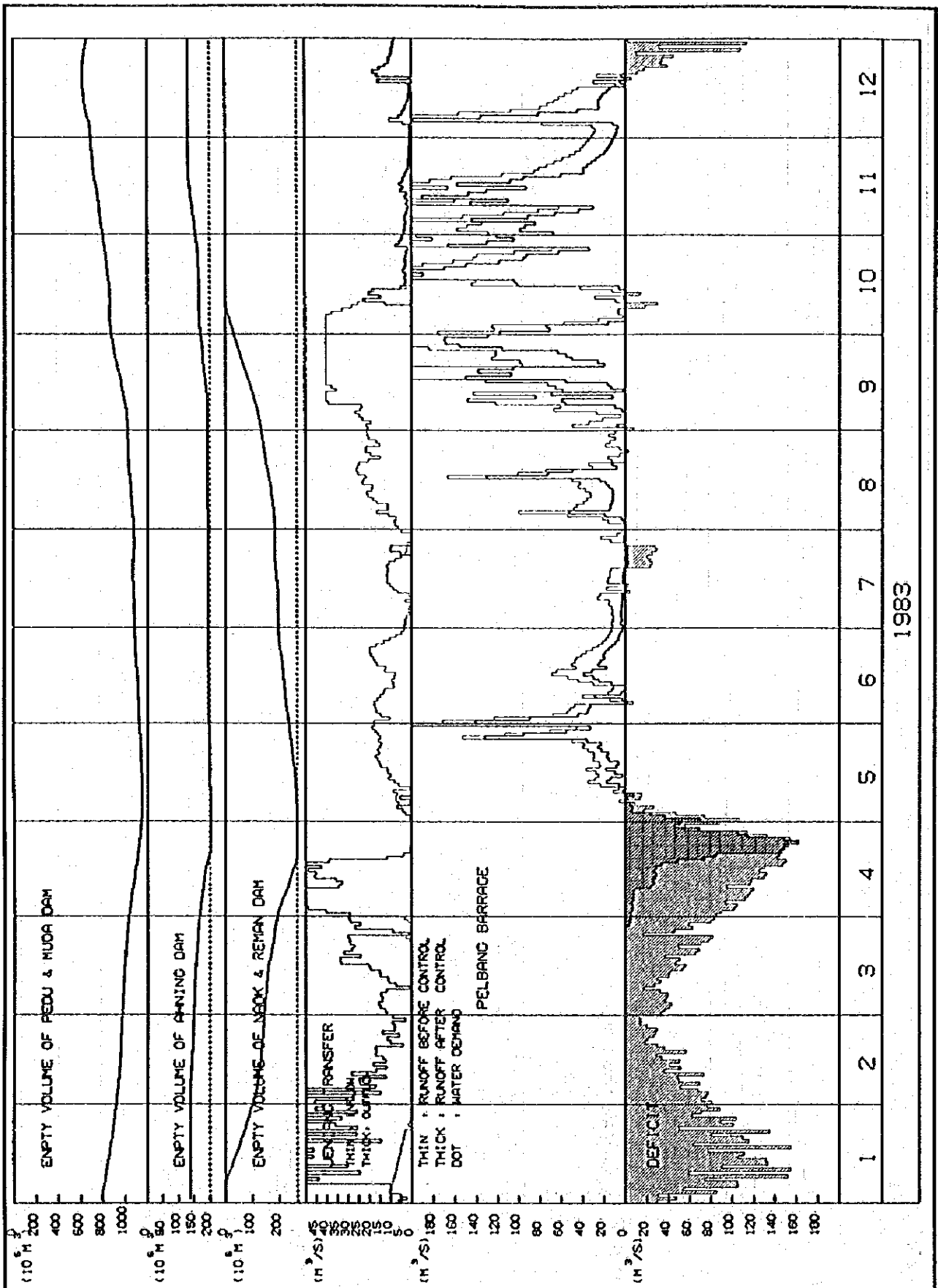
(4/10)



COMPREHENSIVE MANAGEMENT PLAN OF MUDA RIVER BASIN

JAPAN INTERNATIONAL COOPERATION AGENCY

FIG.III. 5.4.4 WATER DEMAND AND SUPPLY BALANCE OF KEDAH RIVER SYSTEM (IN CASE OF WATER SAVING OPERATION) (5/10)

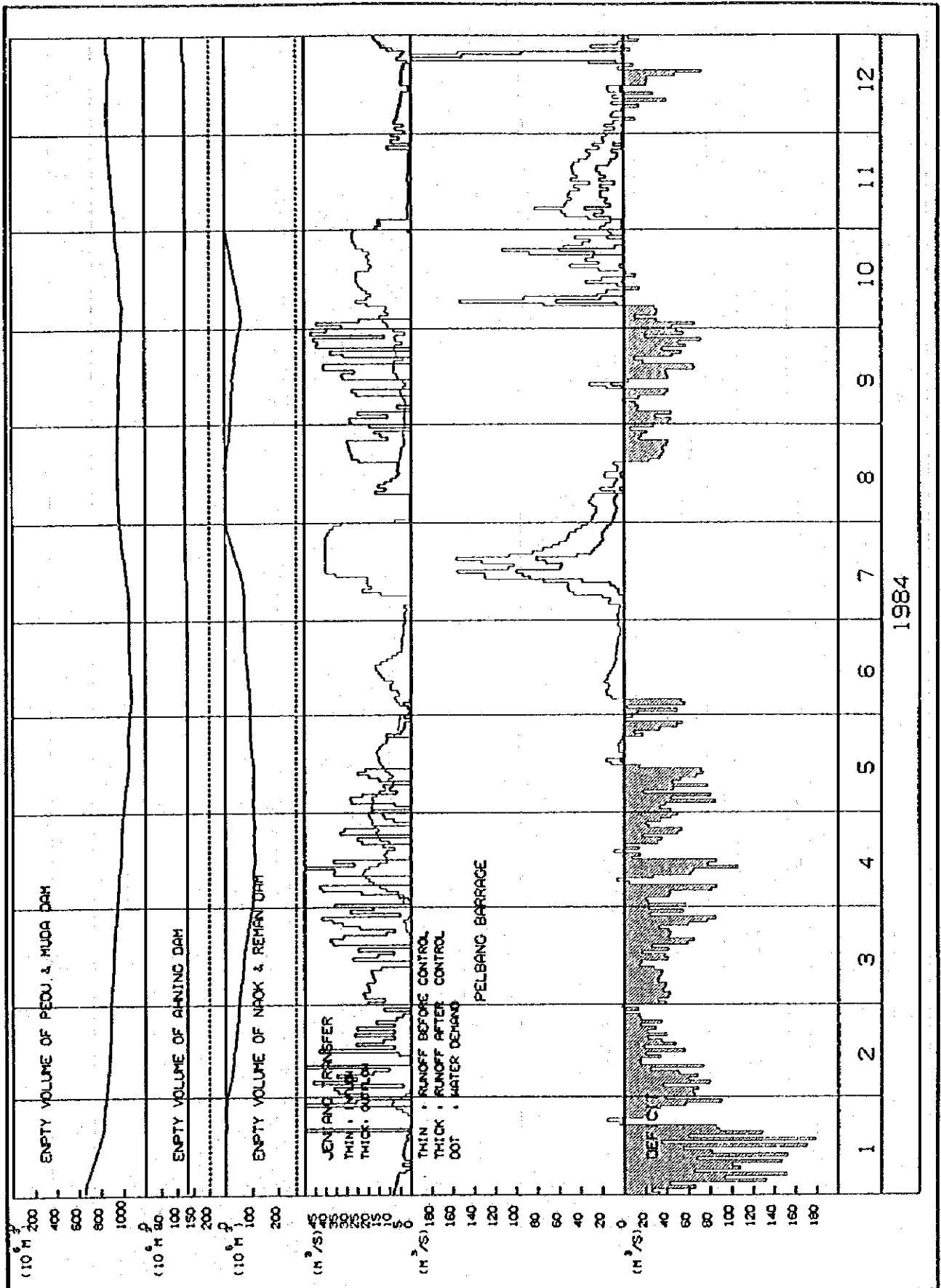


COMPREHENSIVE MANAGEMENT PLAN OF
MUDA RIVER BASIN

JAPAN INTERNATIONAL COOPERATION AGENCY

FIG.III. S.4.4 WATER DEMAND AND SUPPLY
BALANCE OF KEDAH RIVER SYSTEM
(IN CASE OF WATER SAVING
OPERATION)

(6/10)

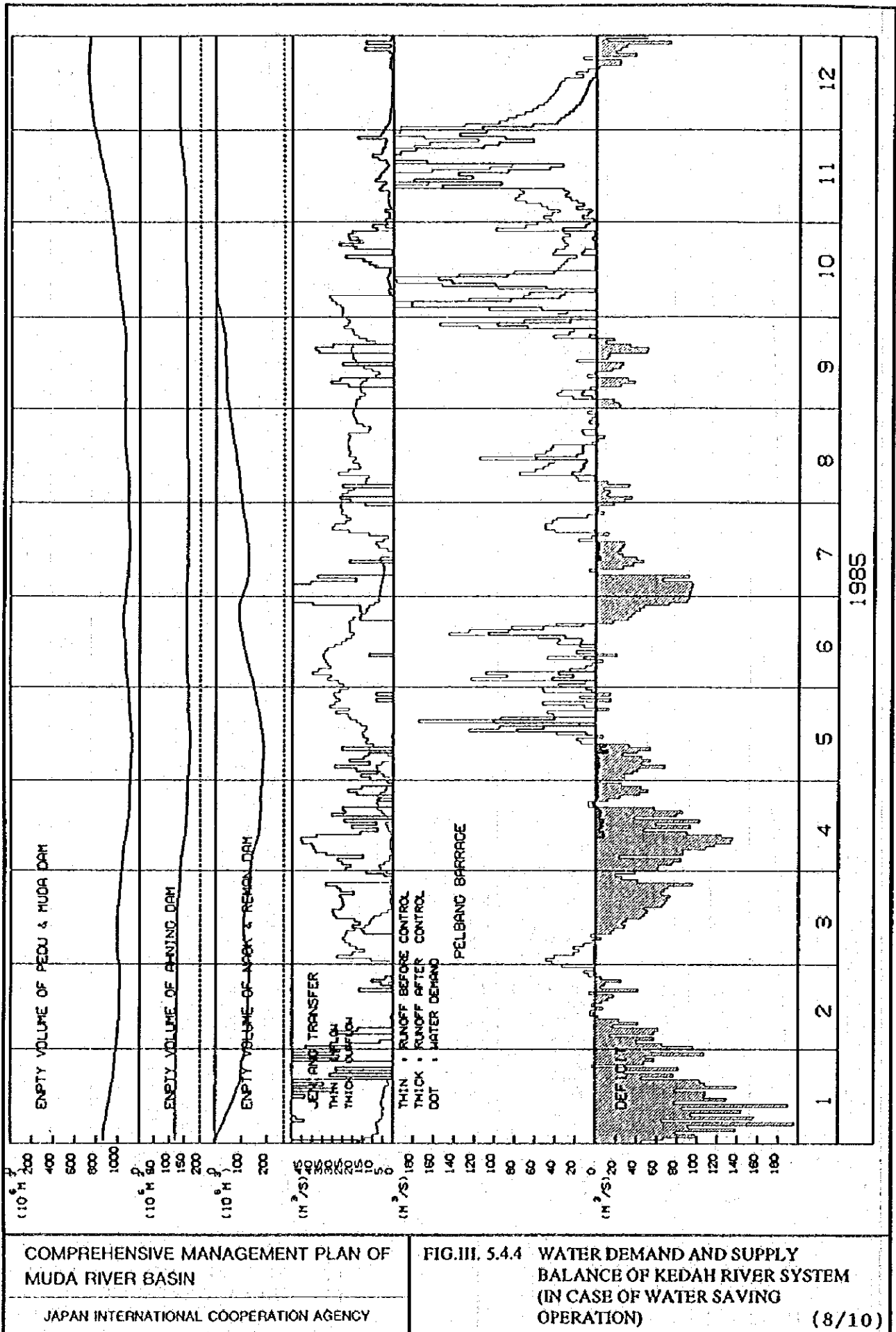


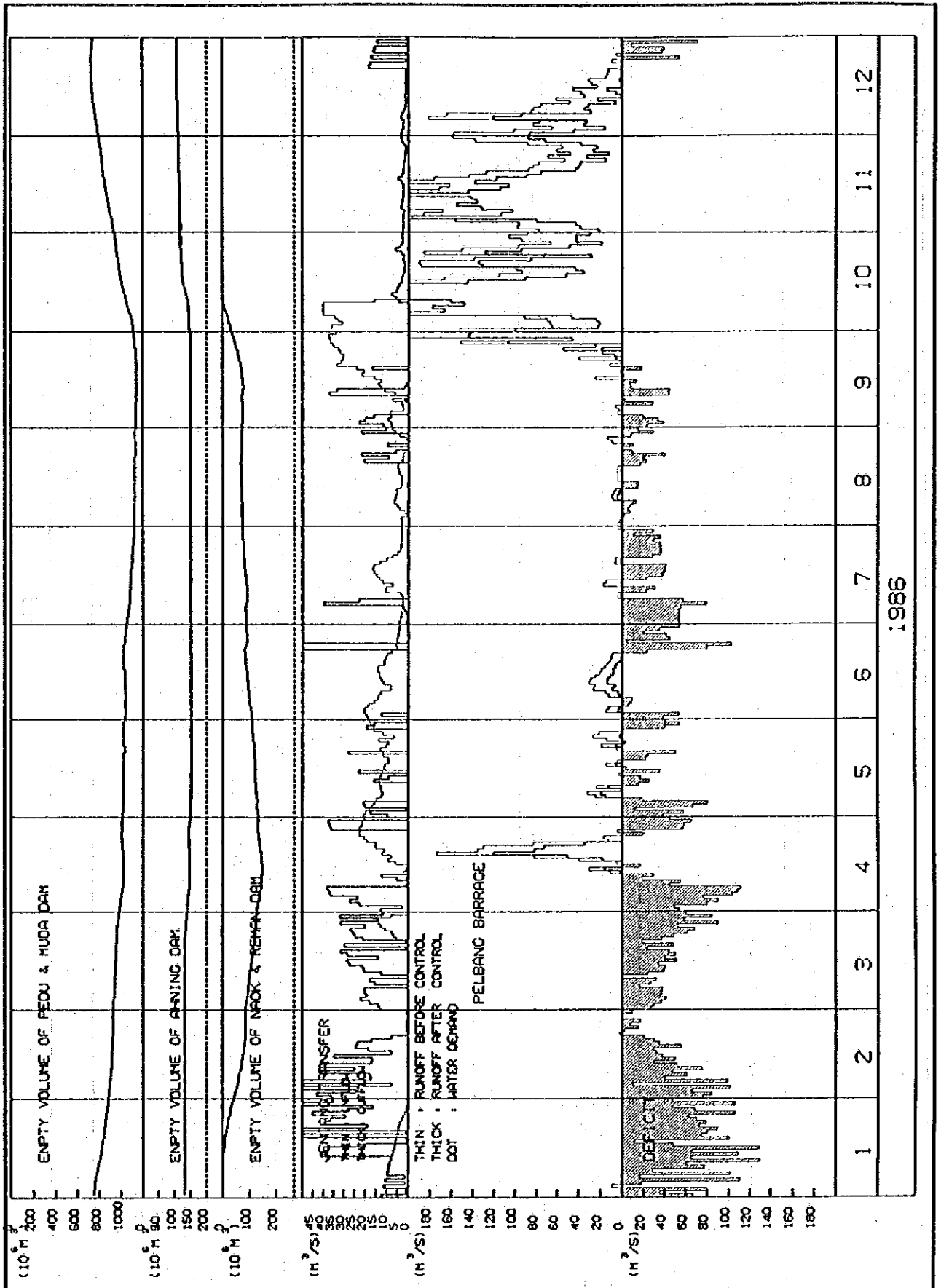
COMPREHENSIVE MANAGEMENT PLAN OF
MUDA RIVER BASIN

JAPAN INTERNATIONAL COOPERATION AGENCY

FIG.III. 5.4.4 WATER DEMAND AND SUPPLY
BALANCE OF KEDAH RIVER SYSTEM
(IN CASE OF WATER SAVING
OPERATION)

(7/10)





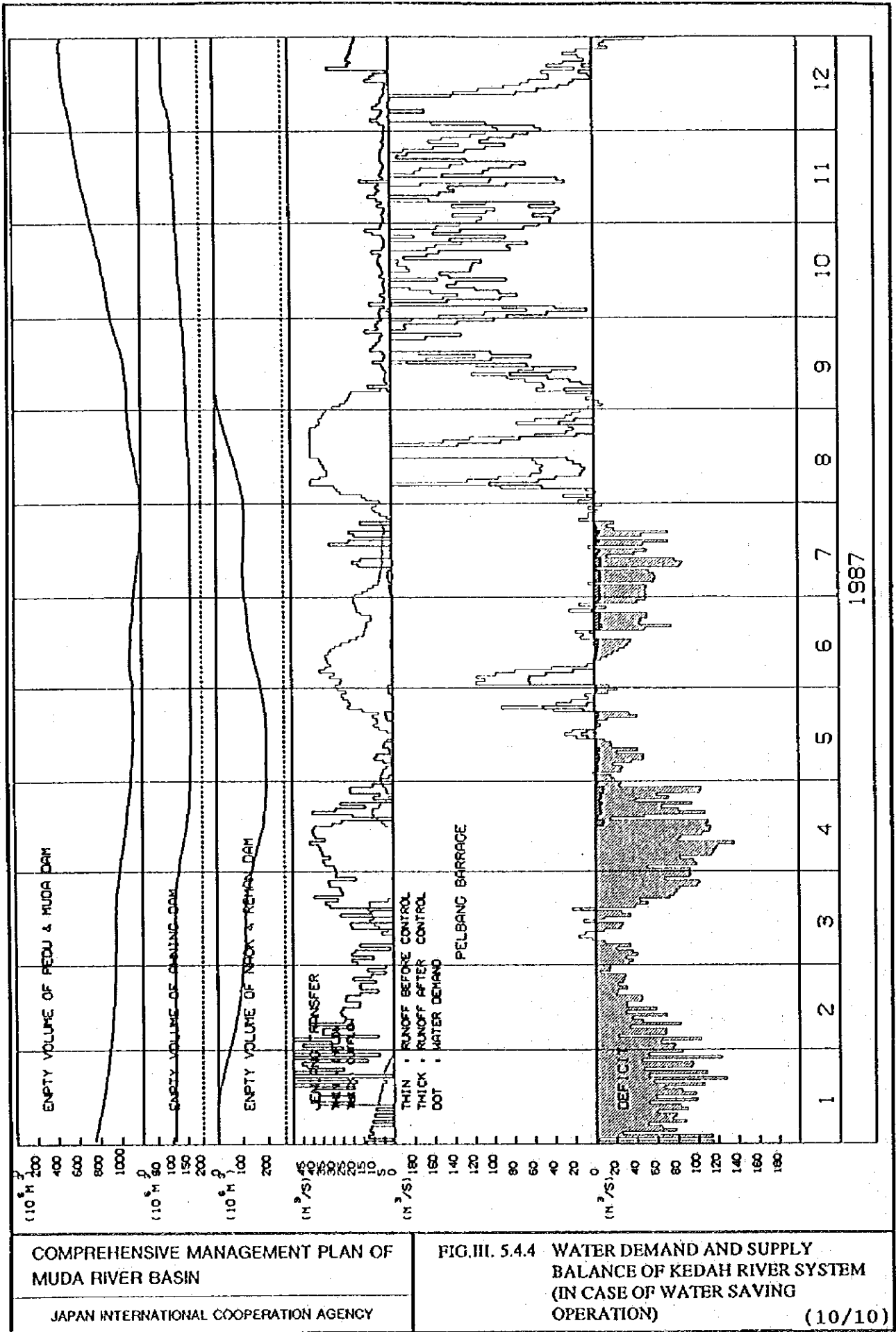
1986

COMPREHENSIVE MANAGEMENT PLAN OF MUDA RIVER BASIN

JAPAN INTERNATIONAL COOPERATION AGENCY

FIG. III. 5.4.4 WATER DEMAND AND SUPPLY BALANCE OF KEDAH RIVER SYSTEM (IN CASE OF WATER SAVING OPERATION)

(9/10)



COMPREHENSIVE MANAGEMENT PLAN OF MUDA RIVER BASIN

JAPAN INTERNATIONAL COOPERATION AGENCY

FIG.III. 5.4.4 WATER DEMAND AND SUPPLY BALANCE OF KEDAH RIVER SYSTEM (IN CASE OF WATER SAVING OPERATION)

(10/10)