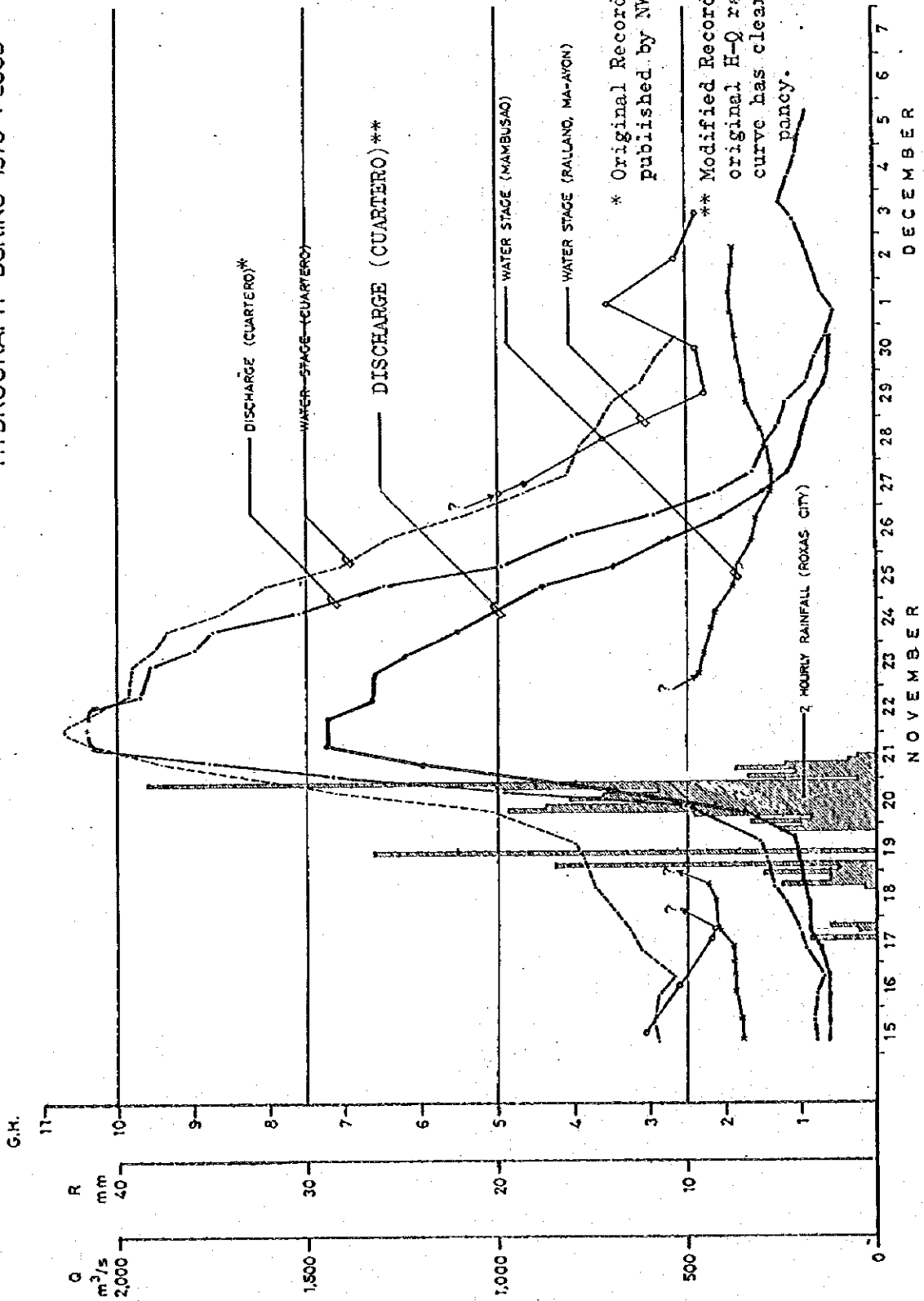


Fig. 1.2 - 3 RATING CURVE AT CUARTERO GAGLING STATION

Fig. I.2-4
HYDROGRAPH DURING 1973 FLOOD



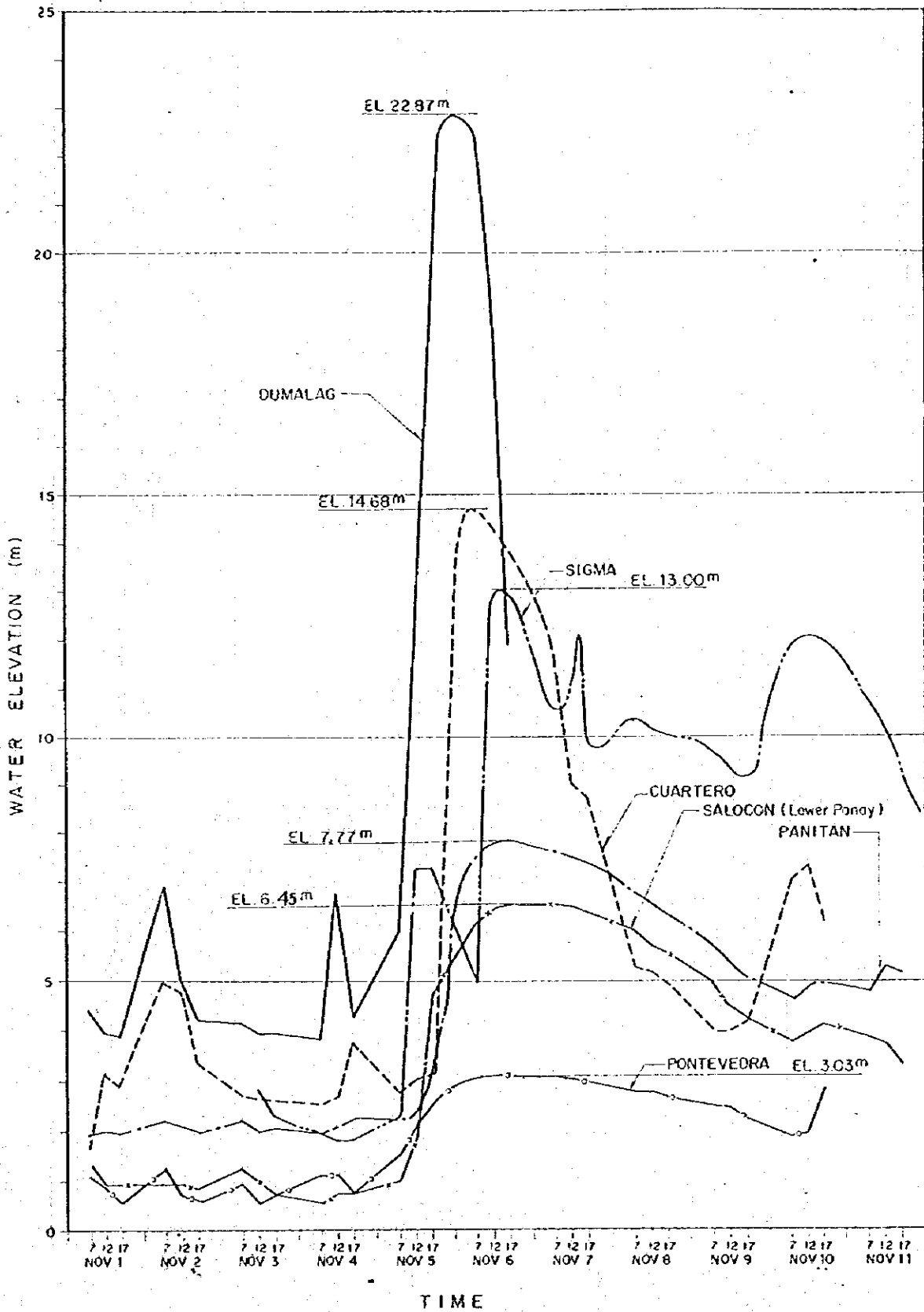


Fig. 1.2-5 WATER STAGE HYDROGRAPH AT GAGING STATION AT THE TIME OF NOV 1984 FLOOD

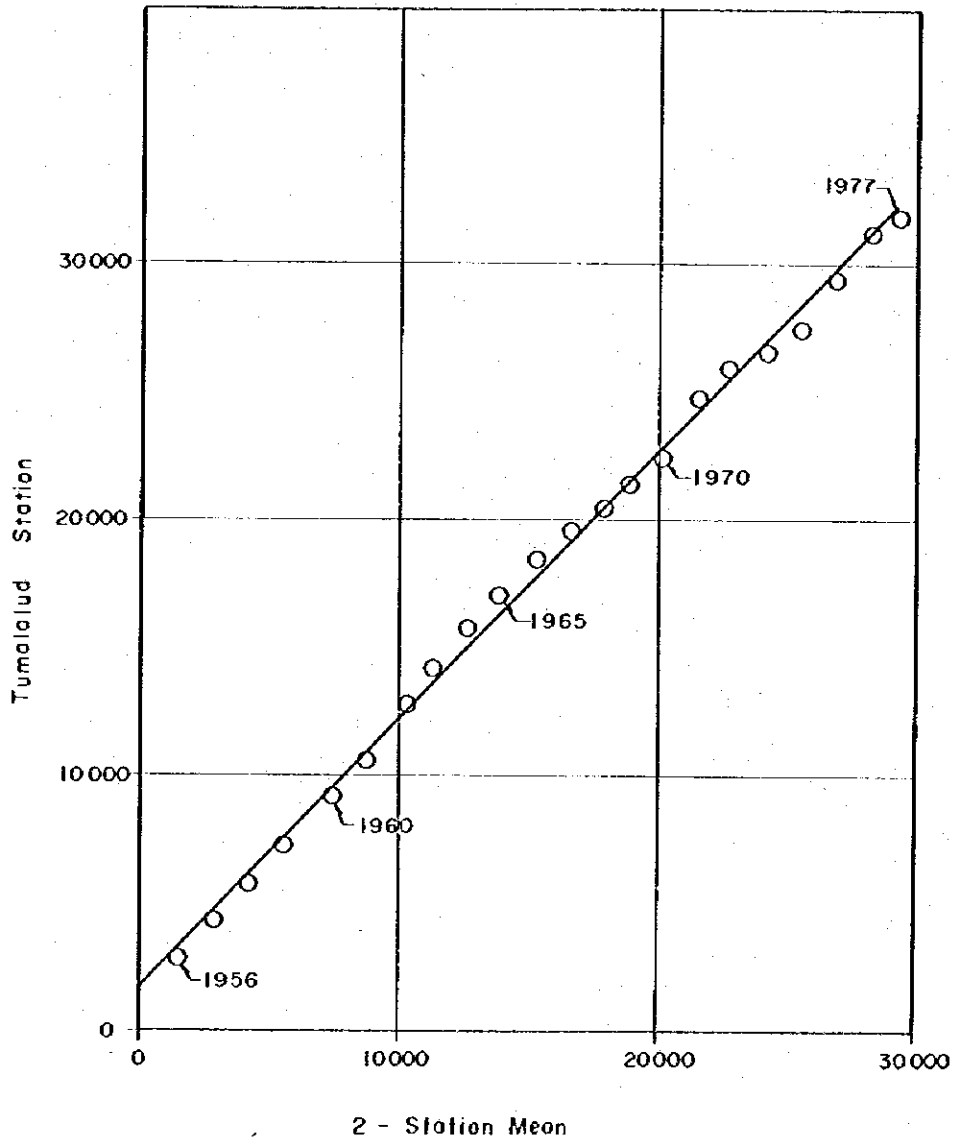


Fig.12-6 DOUBLE MASS CURVE OF ANNUAL RUNOFF DEPTH (1)

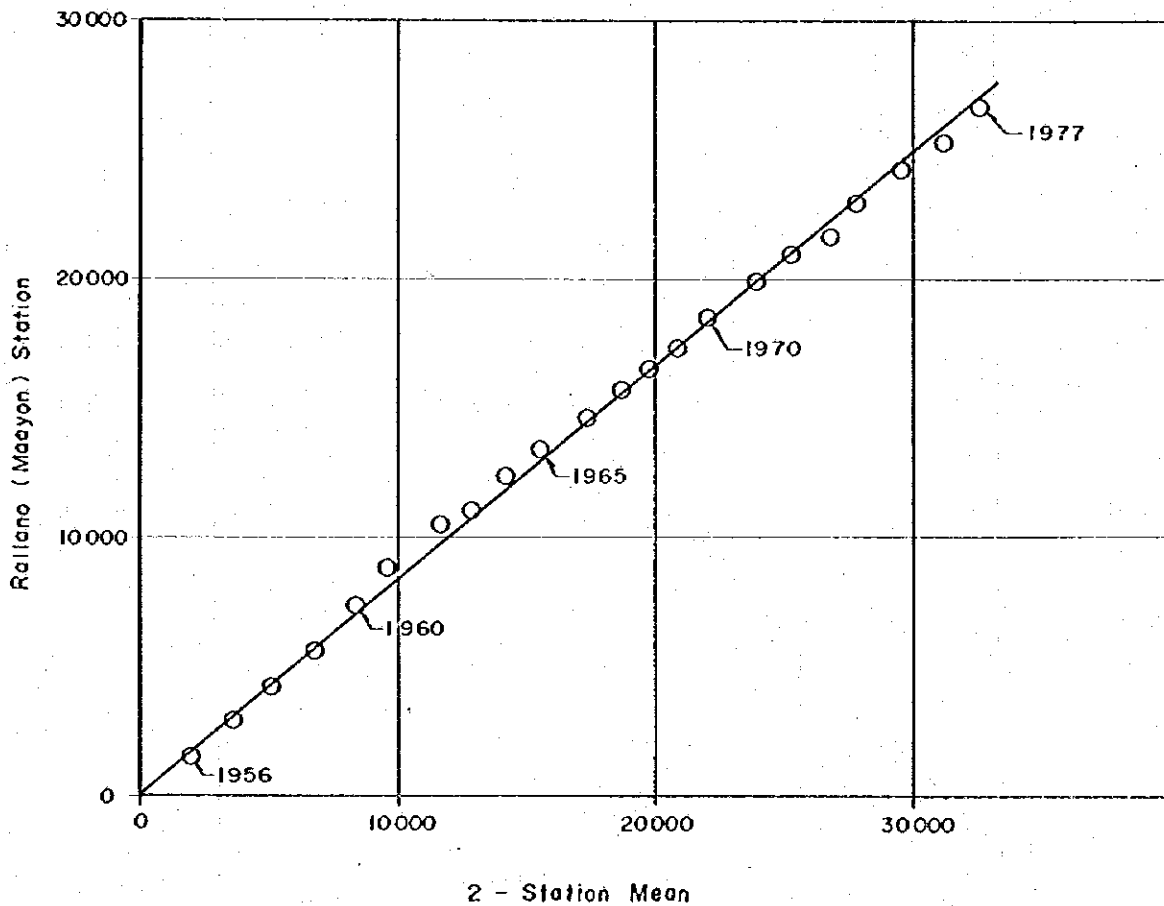


Fig. 12-7 DOUBLE MASS CURVE OF ANNUAL RUNOFF DEPTH (2)

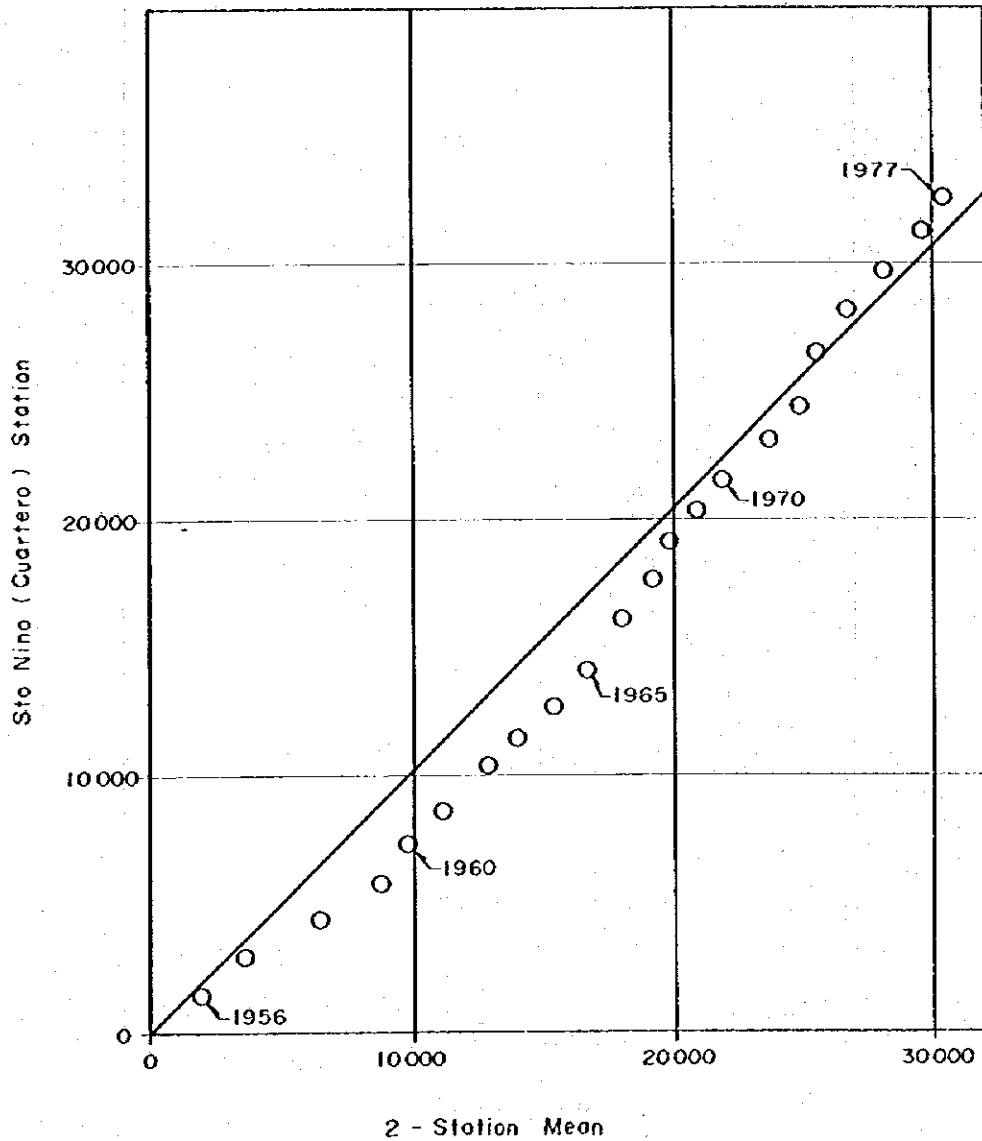


Fig.1.2-8 DOUBLE MASS CURVE OF ANNUAL RUNOFF DEPTH (3)

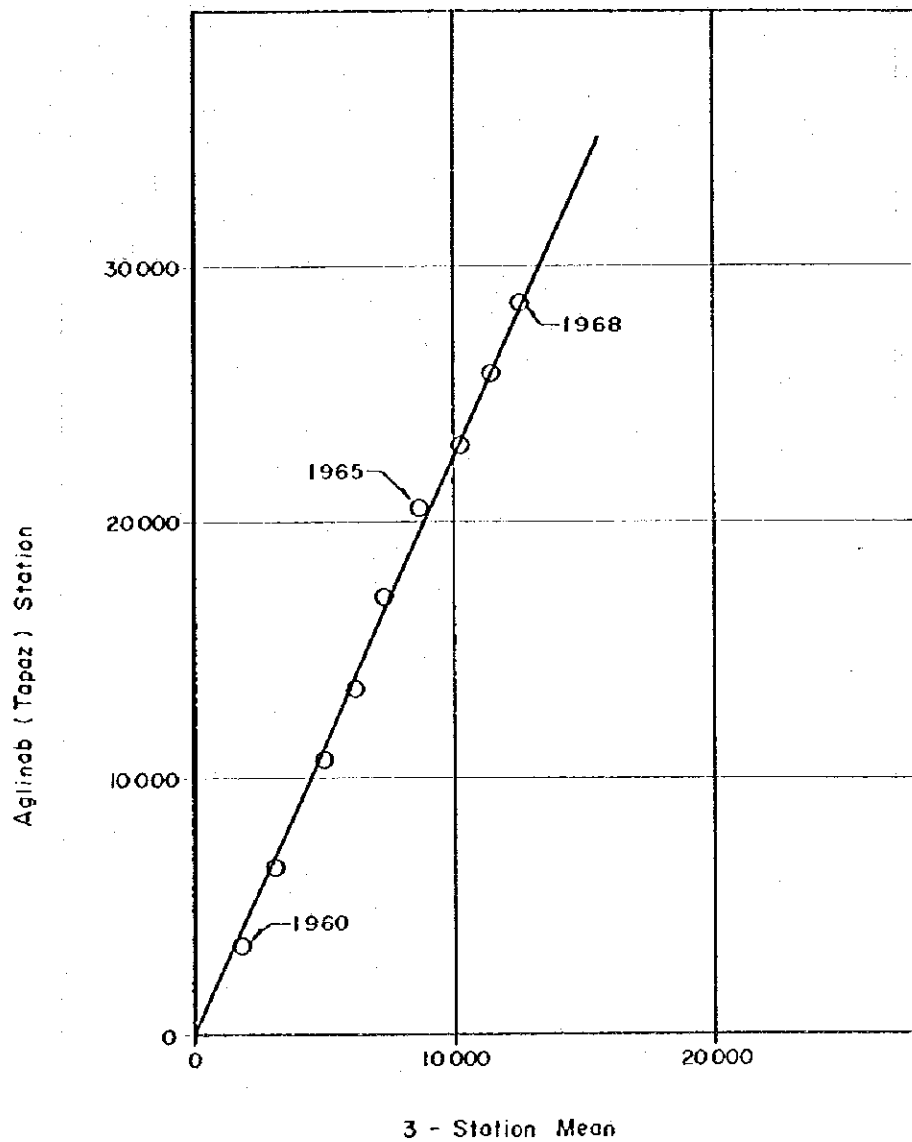


Fig.12-9 DOUBLE MASS CURVE OF ANNUAL RUNOFF DEPTH (4)

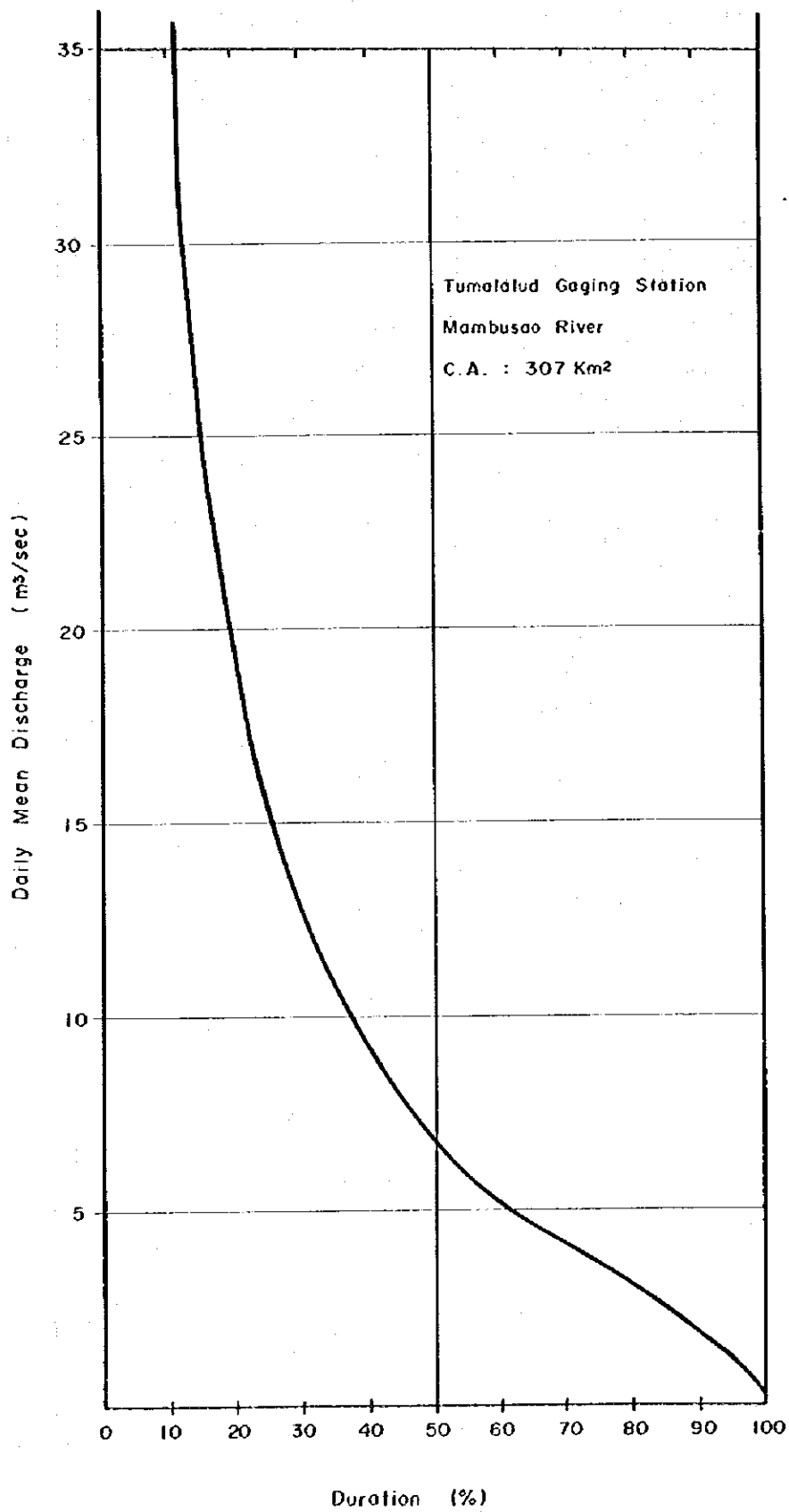


Fig. I.2 -10 DURATION CURVE AT TUMALALUD (MAMBUSAO)

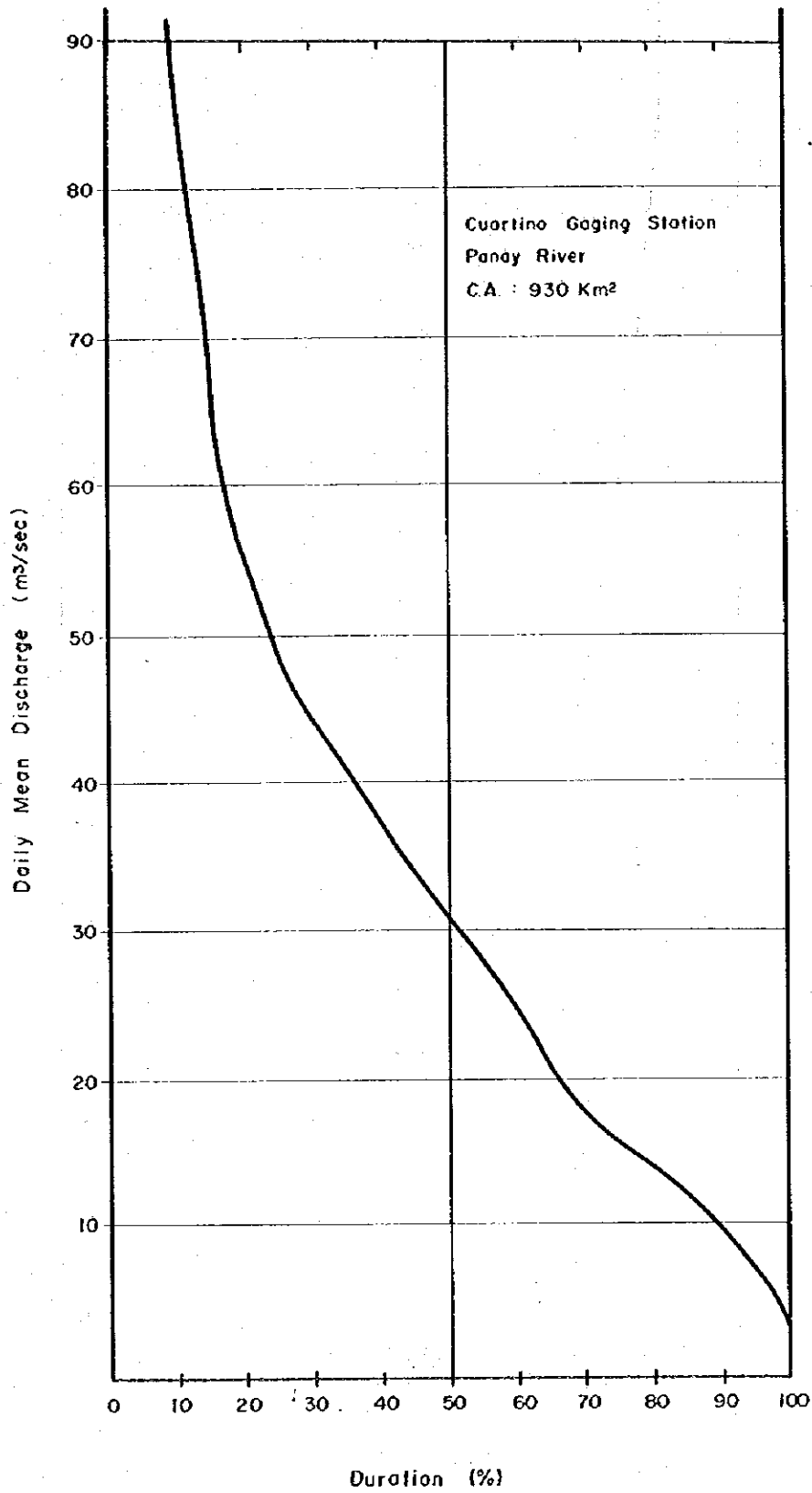


Fig. 1.2 - 11 DURATION CURVE AT CUARTERO

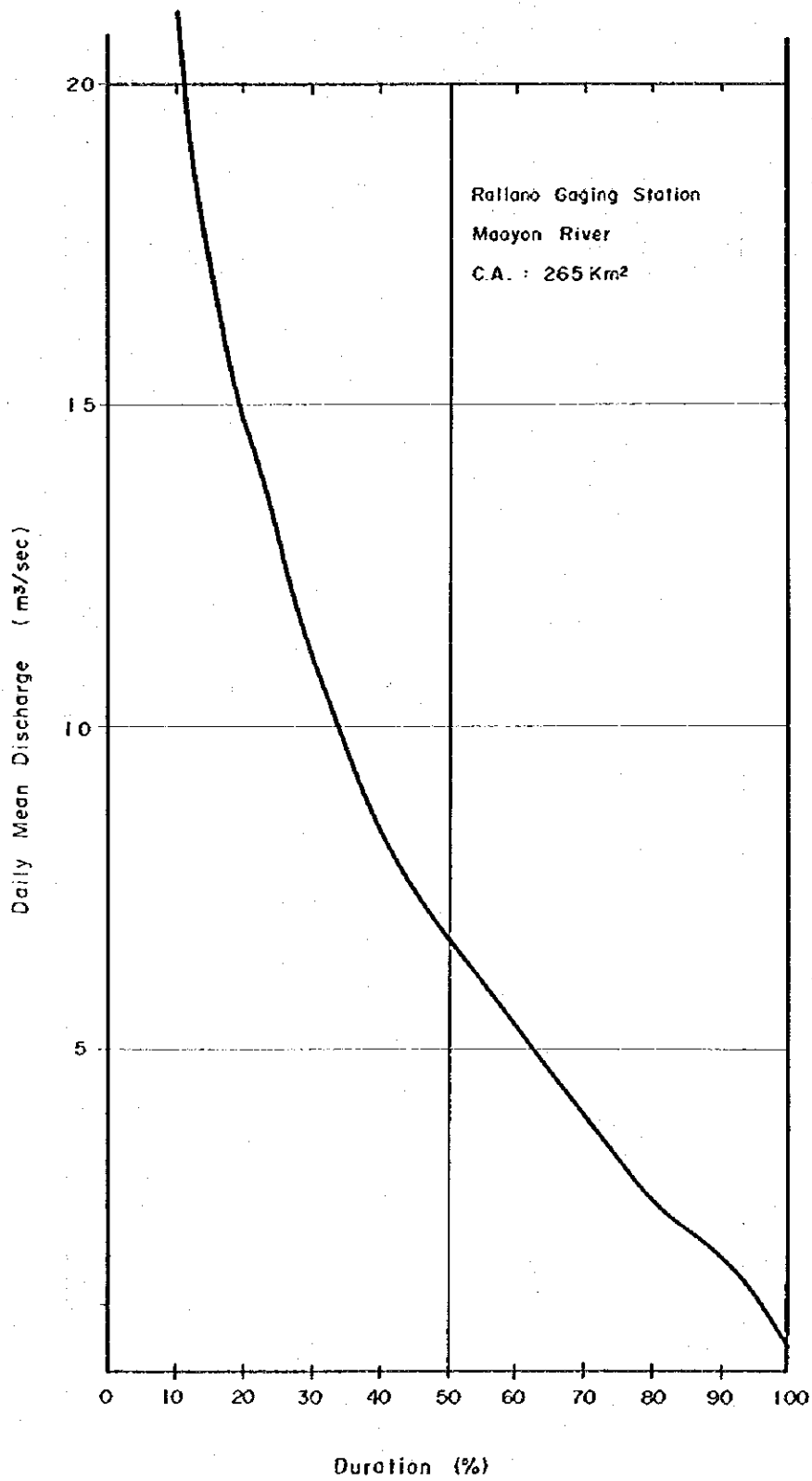


Fig. 1.2 - 12. DURATION CURVE AT RALLANO (MAAYON)

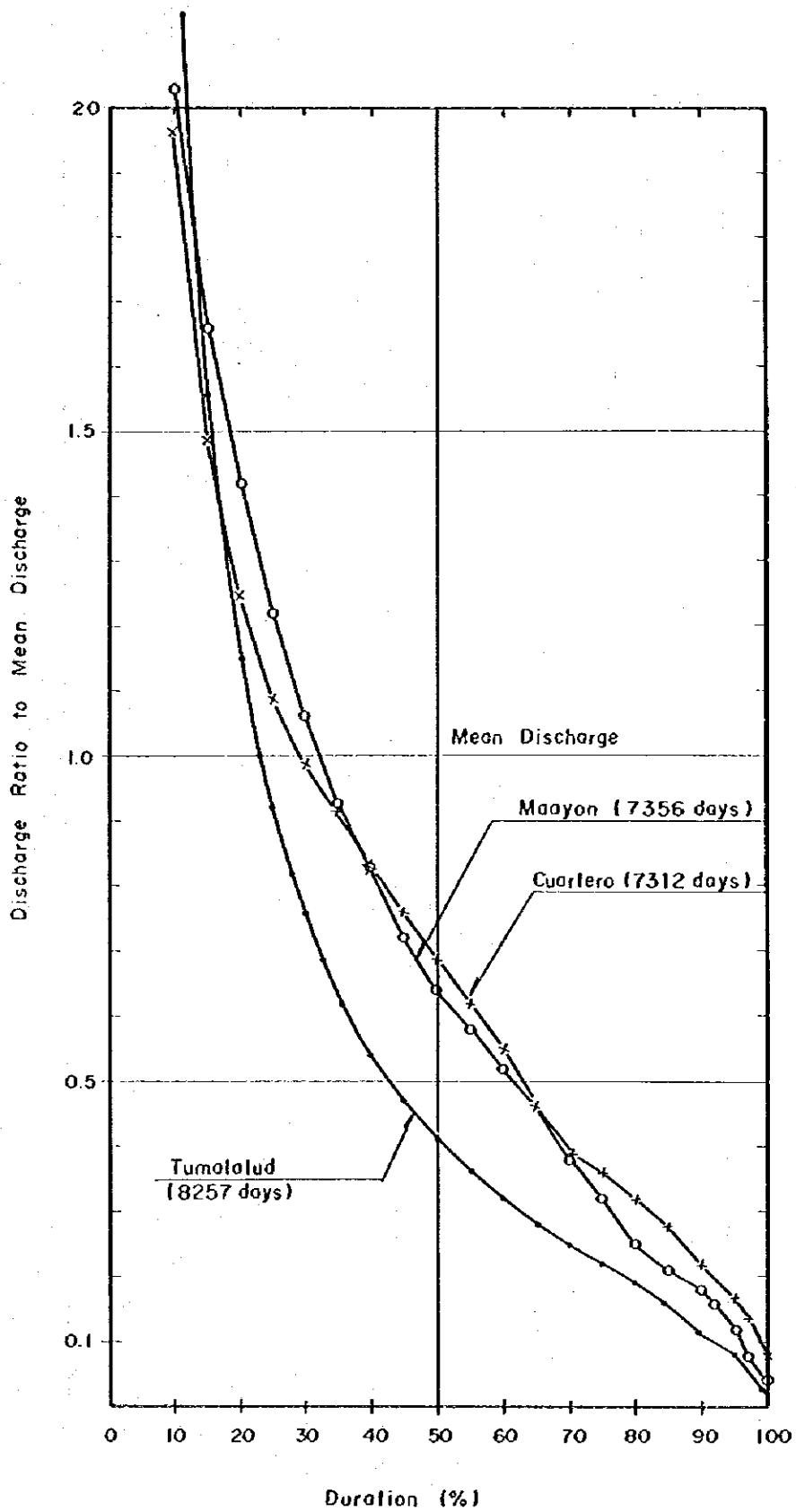
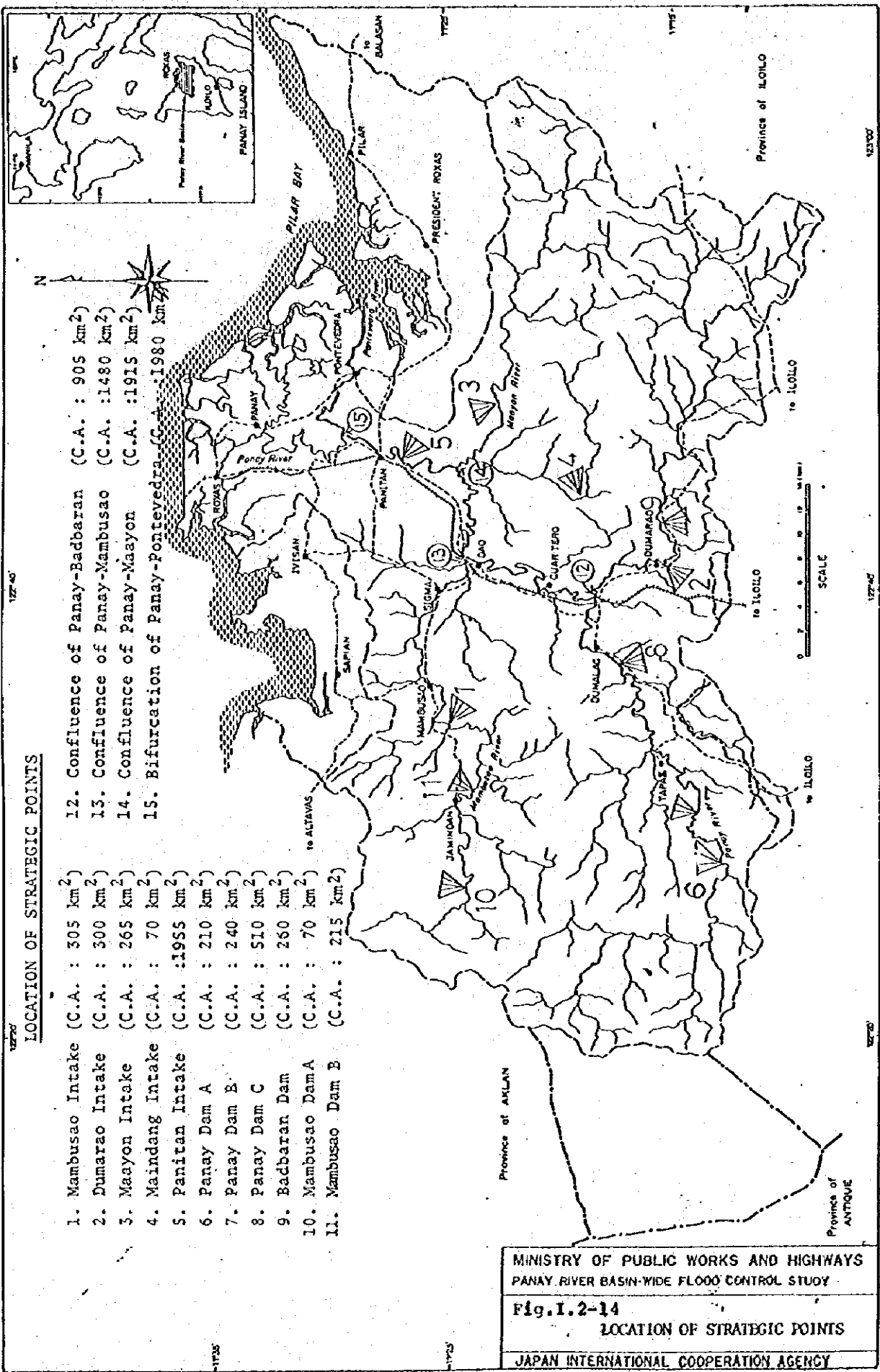


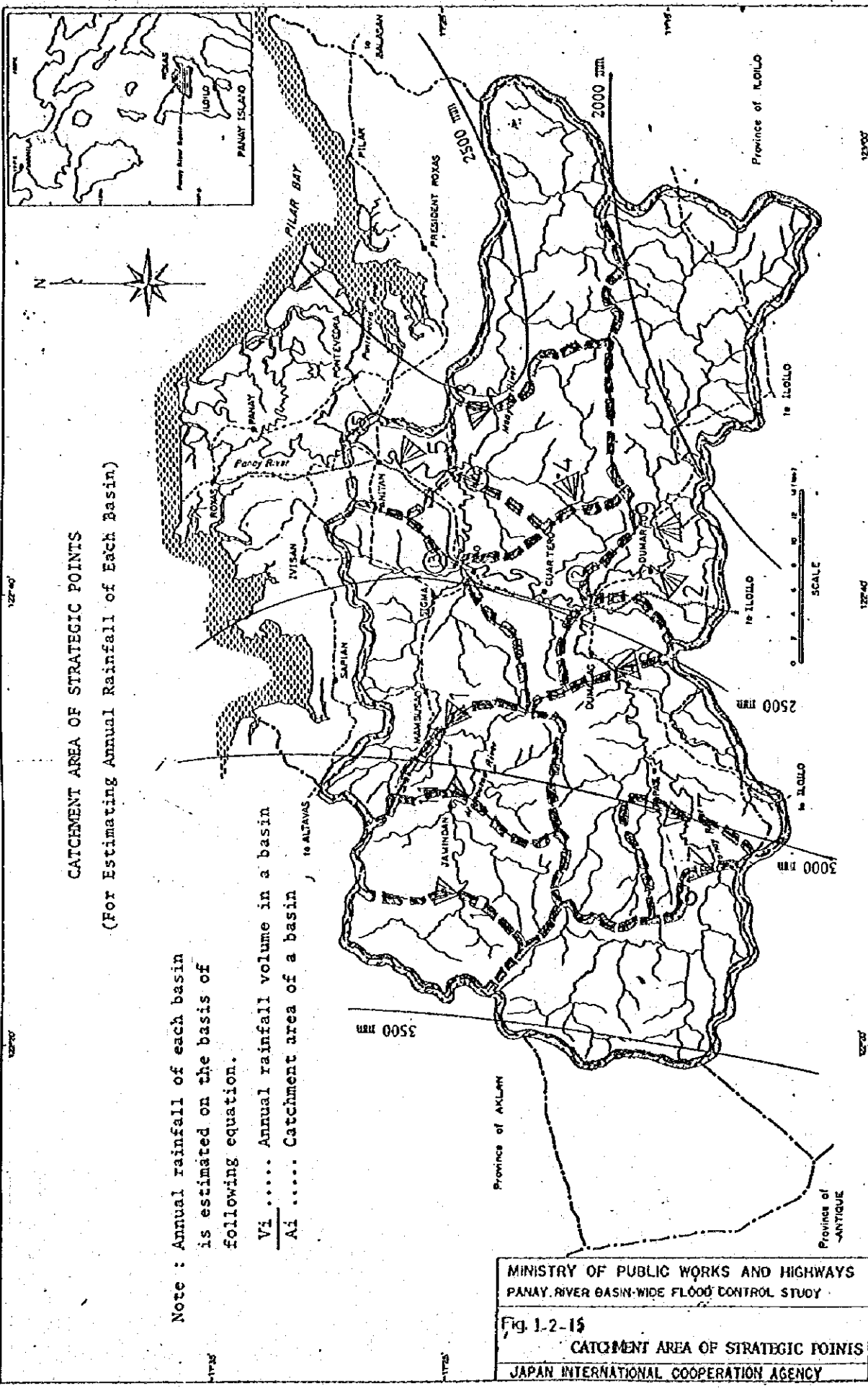
Fig.1.2 - 13 DIMENSIONLESS DURATION CURVES



LOCATION OF STRATEGIC POINTS

- | | |
|--|--|
| 1. Mambusao Intake (C.A. : 305 km ²) | 12. Confluence of Panay-Badbaran (C.A. : 905 km ²) |
| 2. Dumaraog Intake (C.A. : 300 km ²) | 13. Confluence of Panay-Mambusao (C.A. : 1480 km ²) |
| 3. Maayon Intake (C.A. : 265 km ²) | 14. Confluence of Panay-Maayon (C.A. : 1915 km ²) |
| 4. Maandang Intake (C.A. : 70 km ²) | 15. Bifurcation of Panay-Pontevedra (C.A. : 1980 km ²) |
| 5. Panitan Intake (C.A. : 1955 km ²) | |
| 6. Panay Dam A (C.A. : 210 km ²) | |
| 7. Panay Dam B (C.A. : 240 km ²) | |
| 8. Panay Dam C (C.A. : 510 km ²) | |
| 9. Badbaran Dam (C.A. : 260 km ²) | |
| 10. Mambusao Dam A (C.A. : 70 km ²) | |
| 11. Mambusao Dam B (C.A. : 215 km ²) | |

MINISTRY OF PUBLIC WORKS AND HIGHWAYS
 PANAY RIVER BASIN-WIDE FLOOD CONTROL STUDY
Fig. I.2-14
 LOCATION OF STRATEGIC POINTS
 JAPAN INTERNATIONAL COOPERATION AGENCY



CATCHMENT AREA OF STRATEGIC POINTS
 (For Estimating Annual Rainfall of Each Basin)

Note : Annual rainfall of each basin is estimated on the basis of following equation.

V_i Annual rainfall volume in a basin

A_i Catchment area of a basin

MINISTRY OF PUBLIC WORKS AND HIGHWAYS
 PANAY RIVER BASIN-WIDE FLOOD CONTROL STUDY
 Fig. 1-2-15
CATCHMENT AREA OF STRATEGIC POINTS
 JAPAN INTERNATIONAL COOPERATION AGENCY

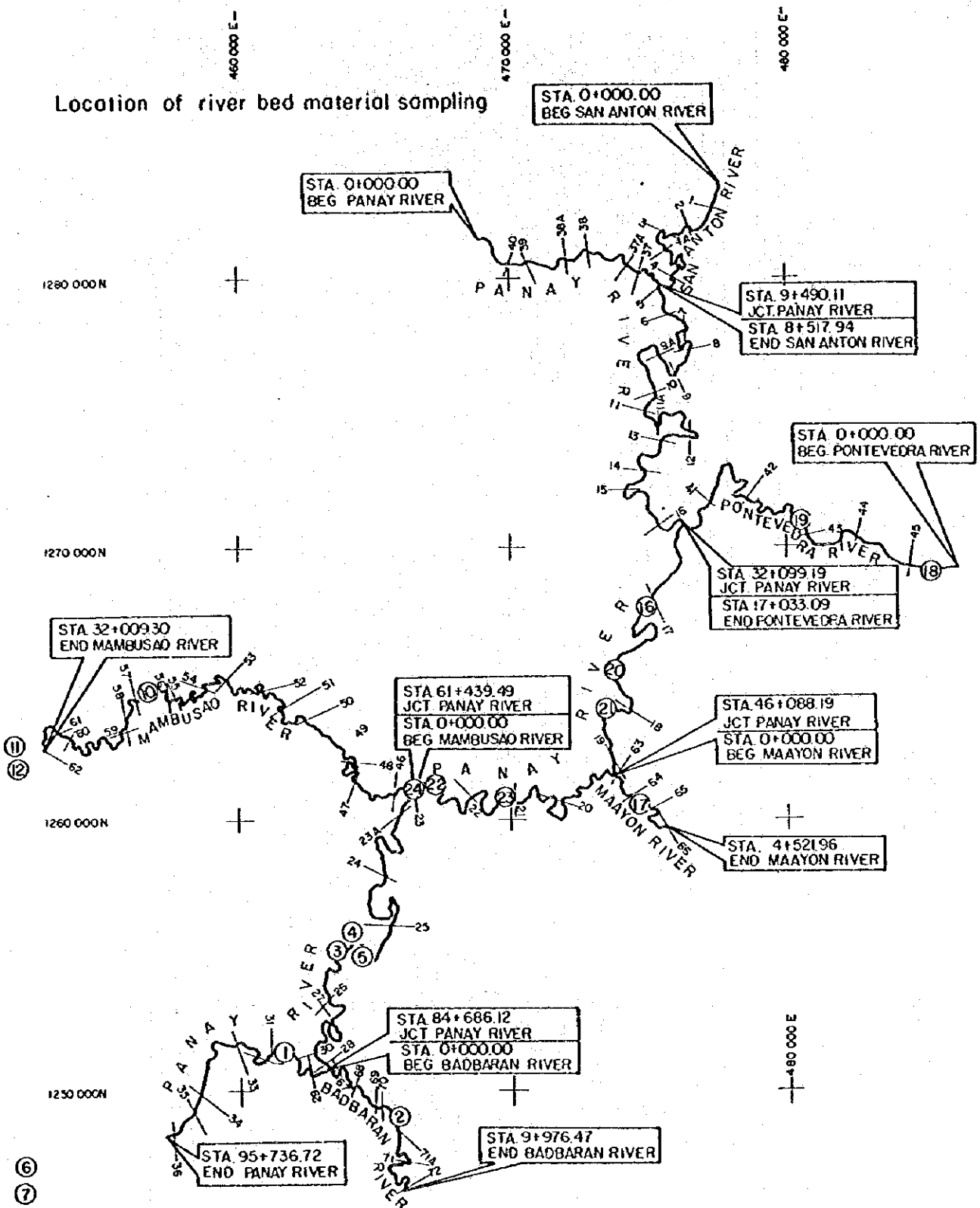


Fig. 12-16 Location Map of Sampling River bed Materials

Jalaur River

Pototon ⑬ ⑭

Dingle ⑨

Possi ⑧

Colinog ⑮

PANAY RIVER
 PONTEVEDRA RIVER
 PANAY RIVER

JUNCTION

MAAYON RIVER
 PANAY RIVER

JUNCTION

MAMBUSAO RIVER
 PANAY RIVER

JUNCTION

BADBARAN RIVER
 PANAY RIVER

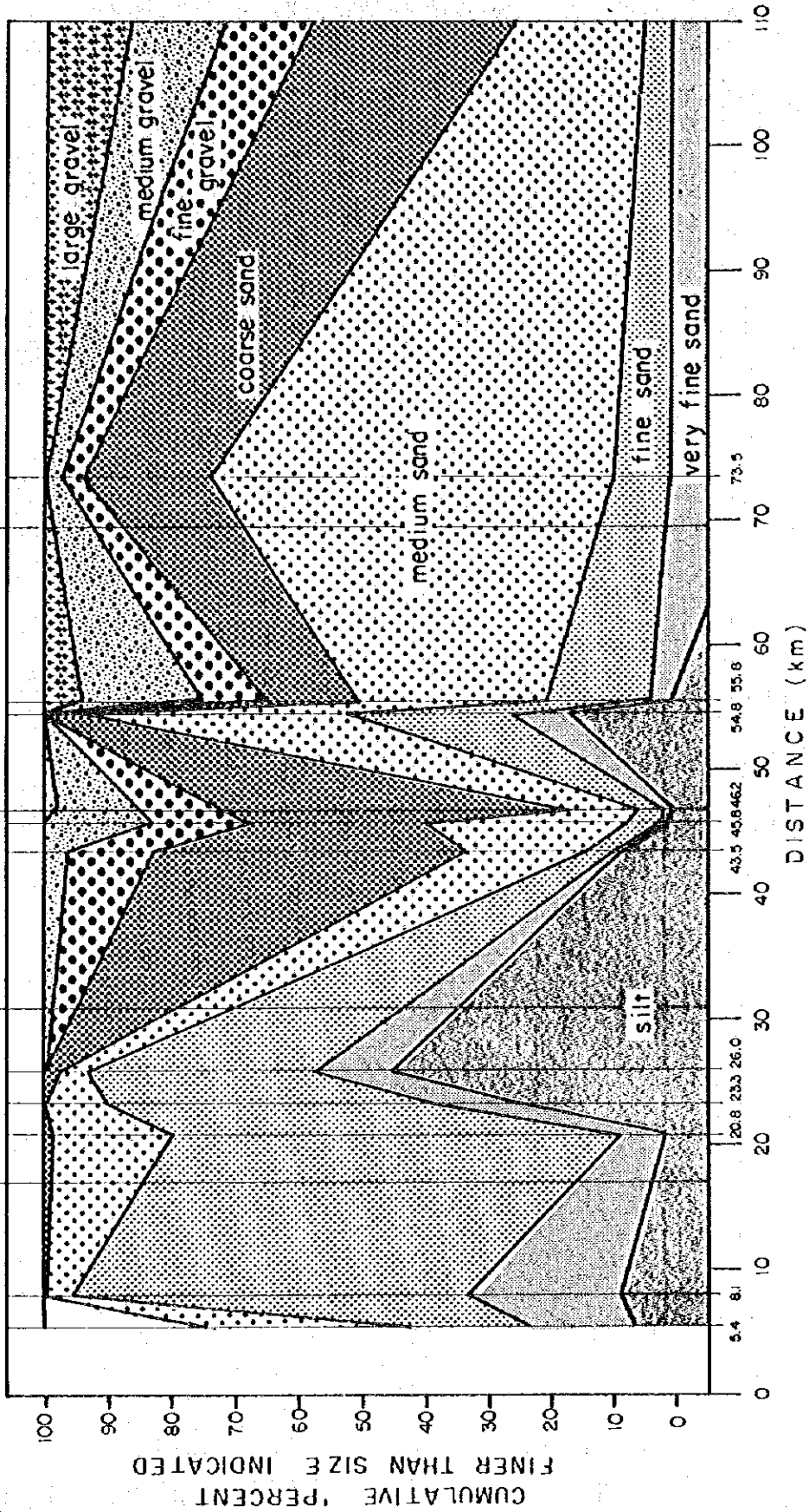


Fig. I 2-17 Variation Material Composition in each River Course (I)

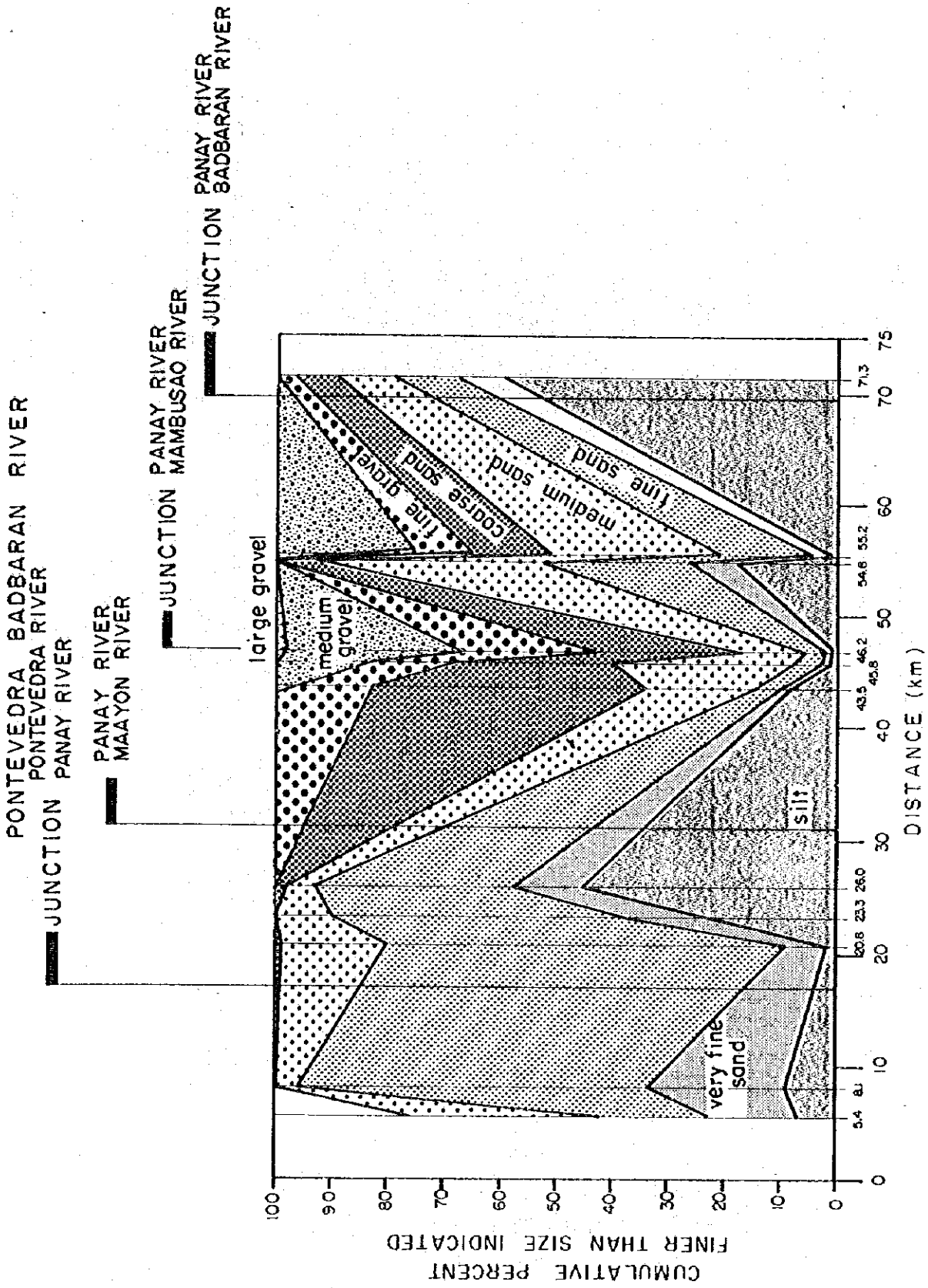


Fig. I 2-17 Variation Material Composition in each River Course (2)

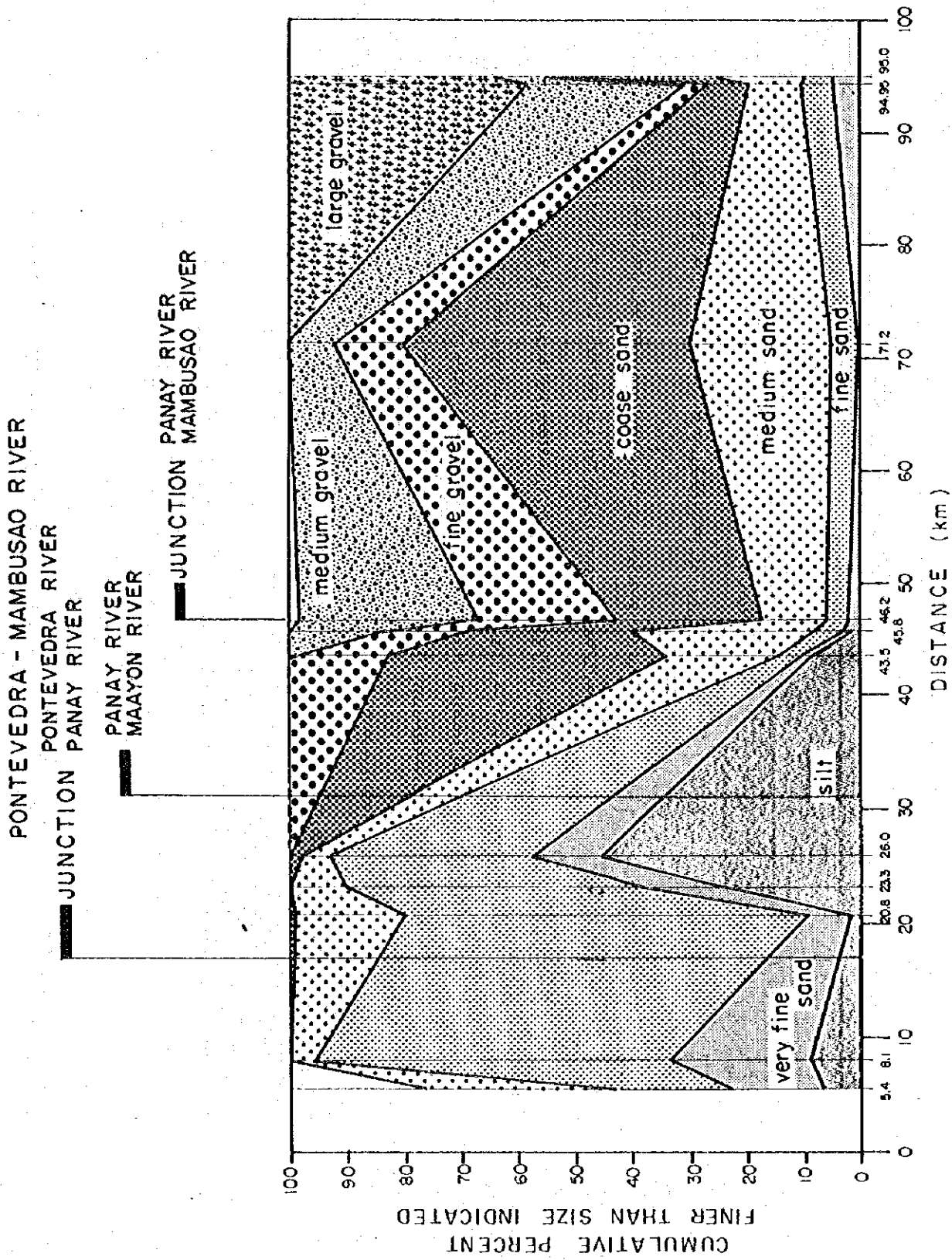


Fig. I 2-17 Variation Material Composition in each River Course (3)

PONTEVEDRA - MAAYON RIVER
 PONTEVEDRA RIVER
 PANAY RIVER
 MAAYON RIVER

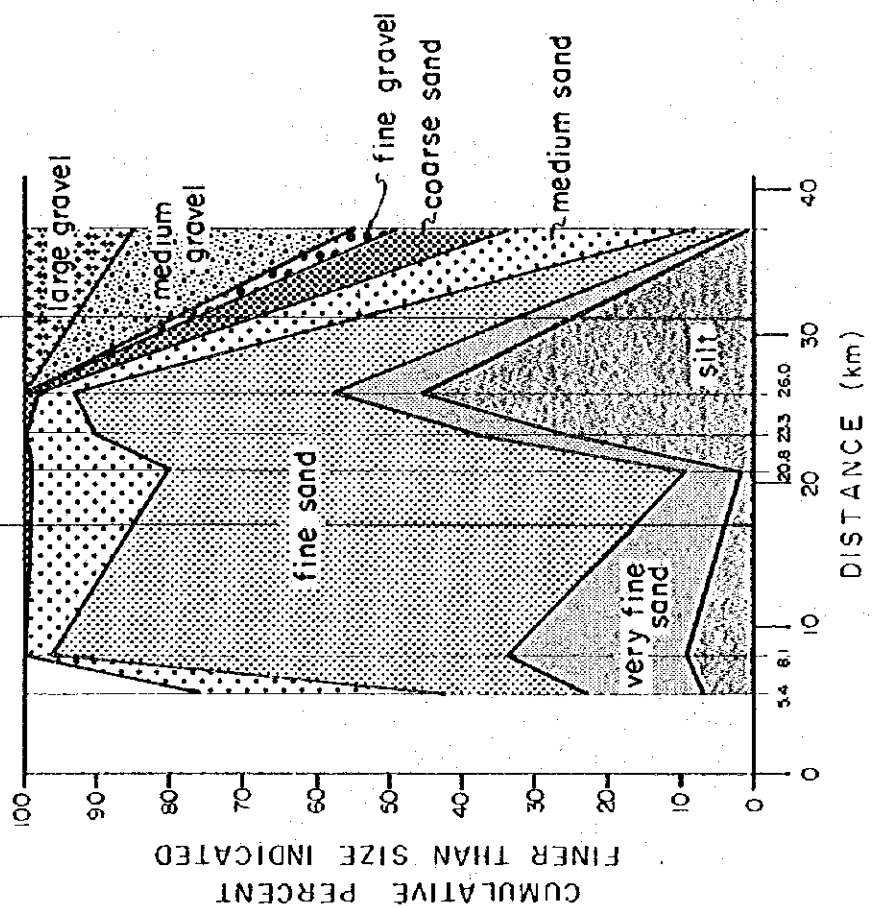
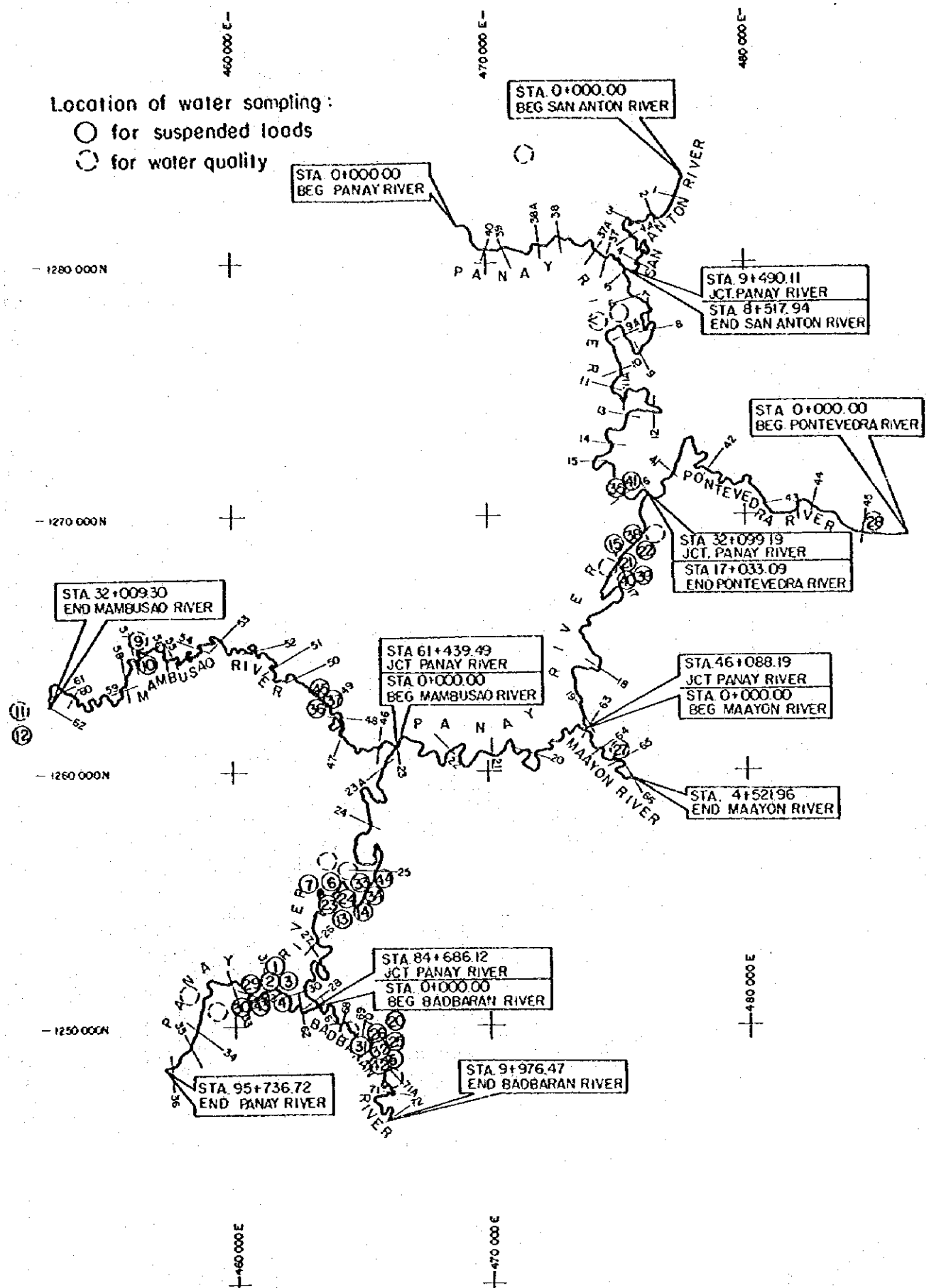


Fig. I 2-17 Variation Material Composition in each River Course (4)



Location of water sampling:

- for suspended loads
- ⊙ for water quality

- Jalaur River
- Pototan (8) (16) Possi (18)
 - Dingle (17) Calinog (19)

Fig.12-18 Location Map of Water Sampling for Suspended Material and Water Quality

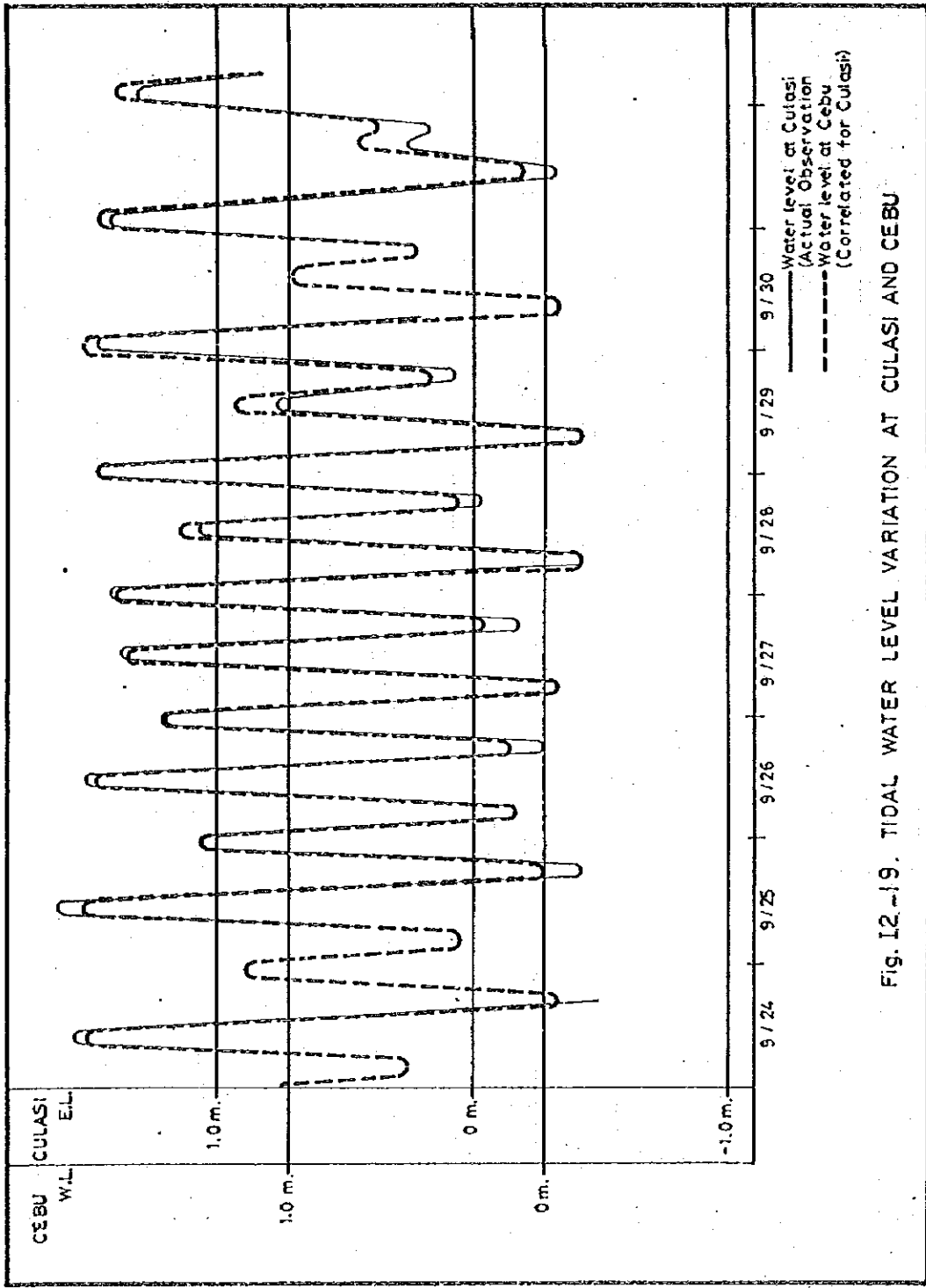
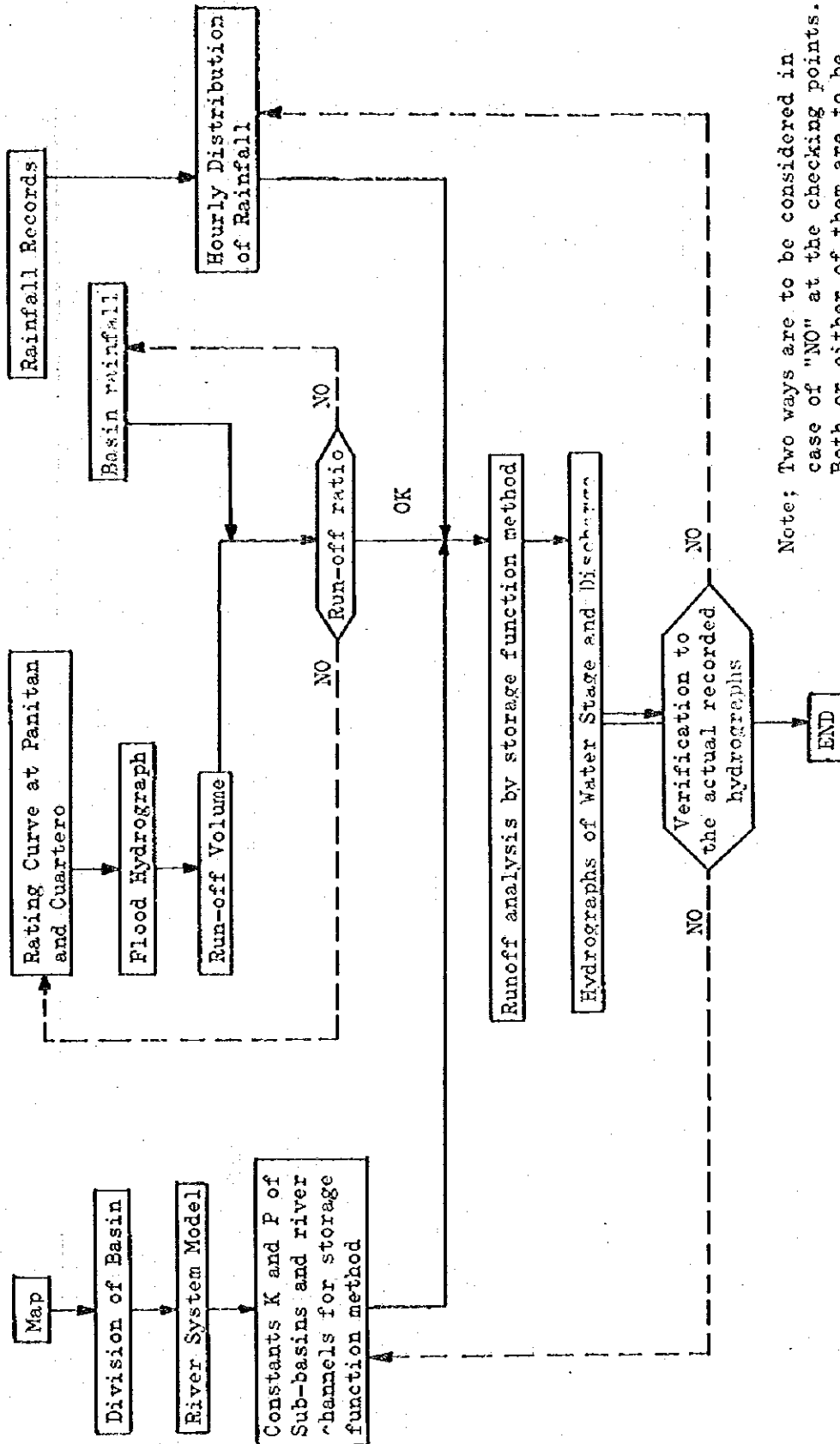
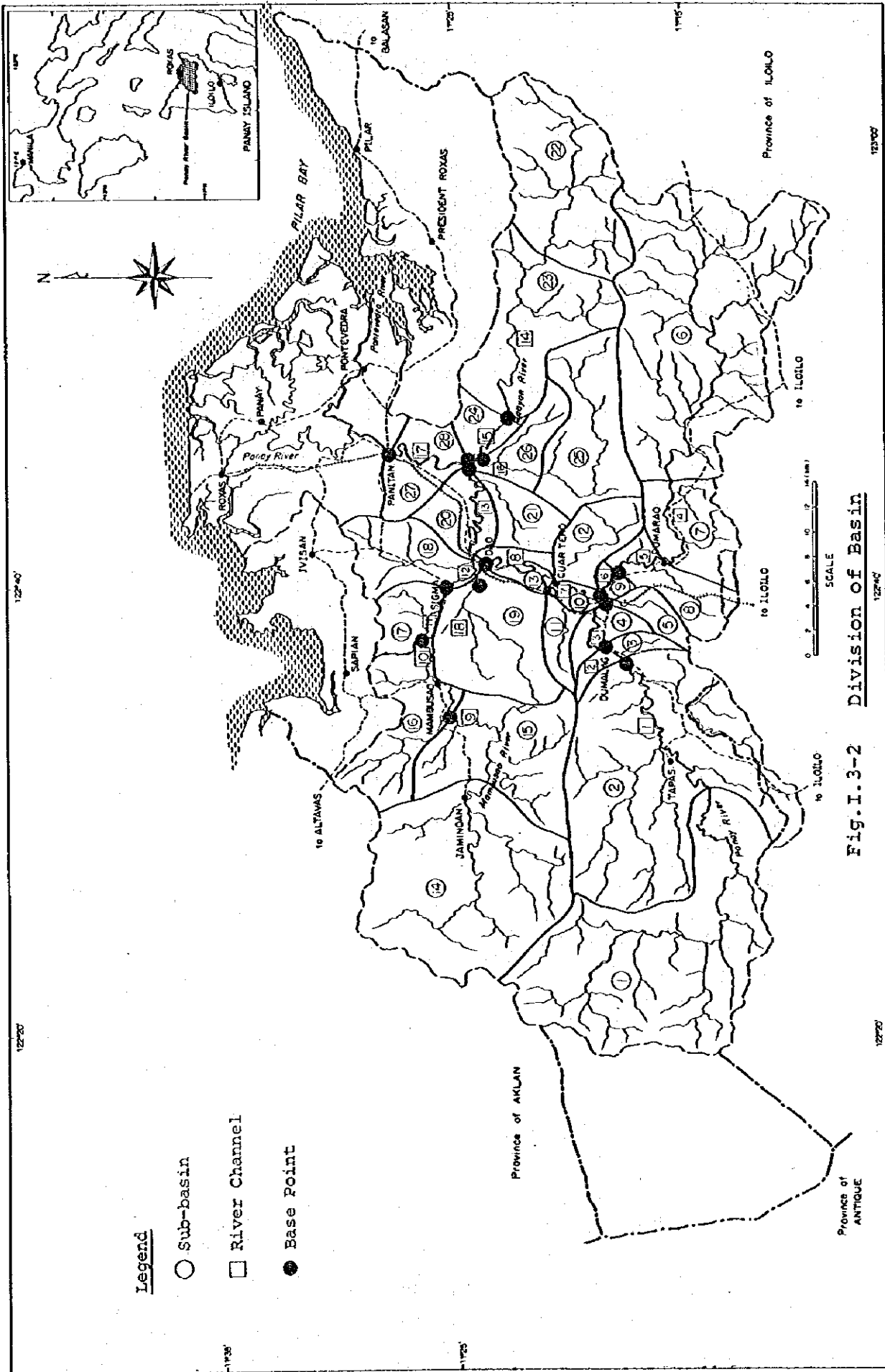


Fig. 12.-19. TIDAL WATER LEVEL VARIATION AT CULASI AND CEBU



Note; Two ways are to be considered in case of "NO" at the checking points. Both or either of them are to be taken to get the reasonable results.

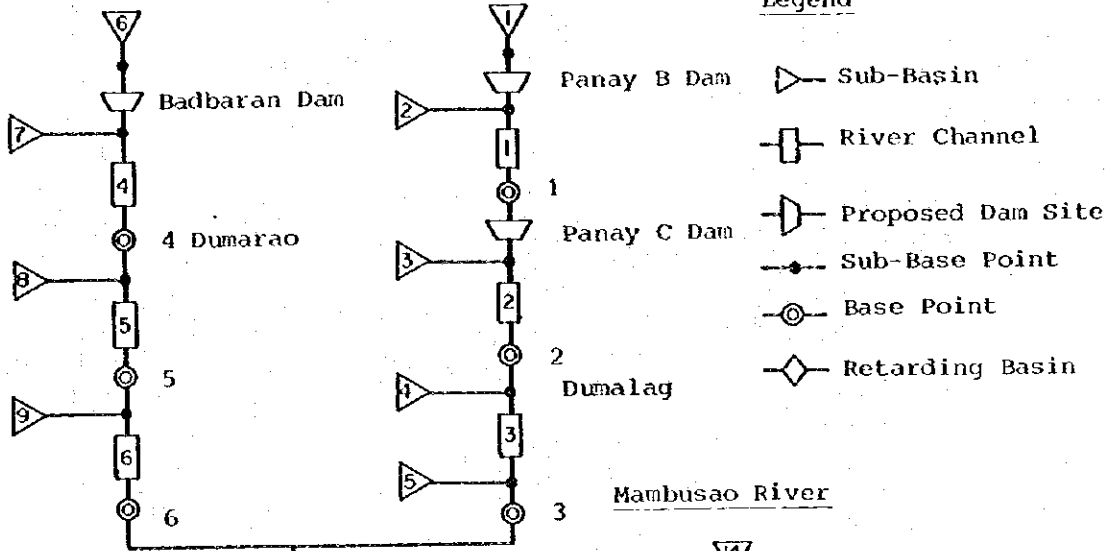
Fig. 1.3-1 Flow Chart of Flood Analysis in Present River Condition



Badbaran River

Panay River

Legend



Mambusao River

Maayon River

Ilas River

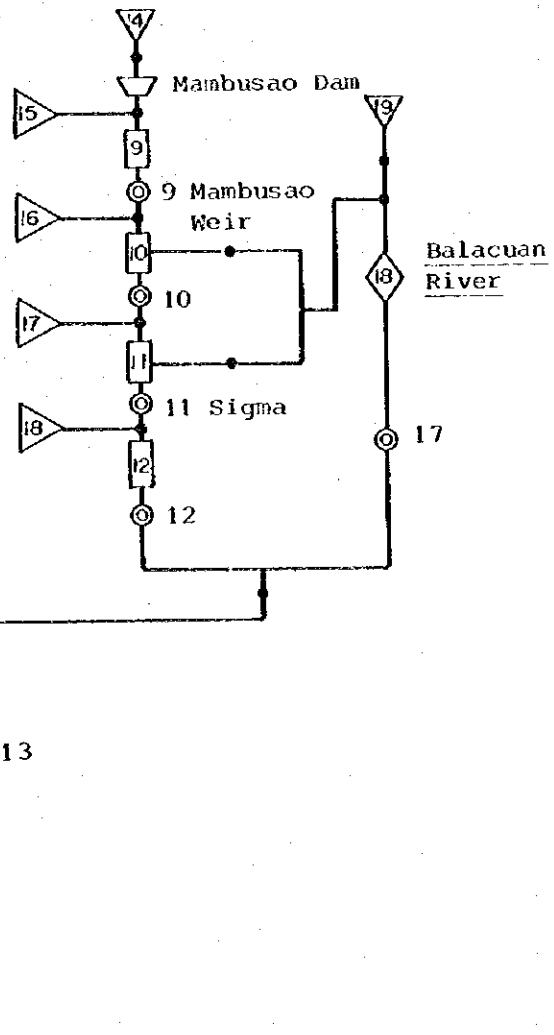


Fig.I.3-3 River System Model

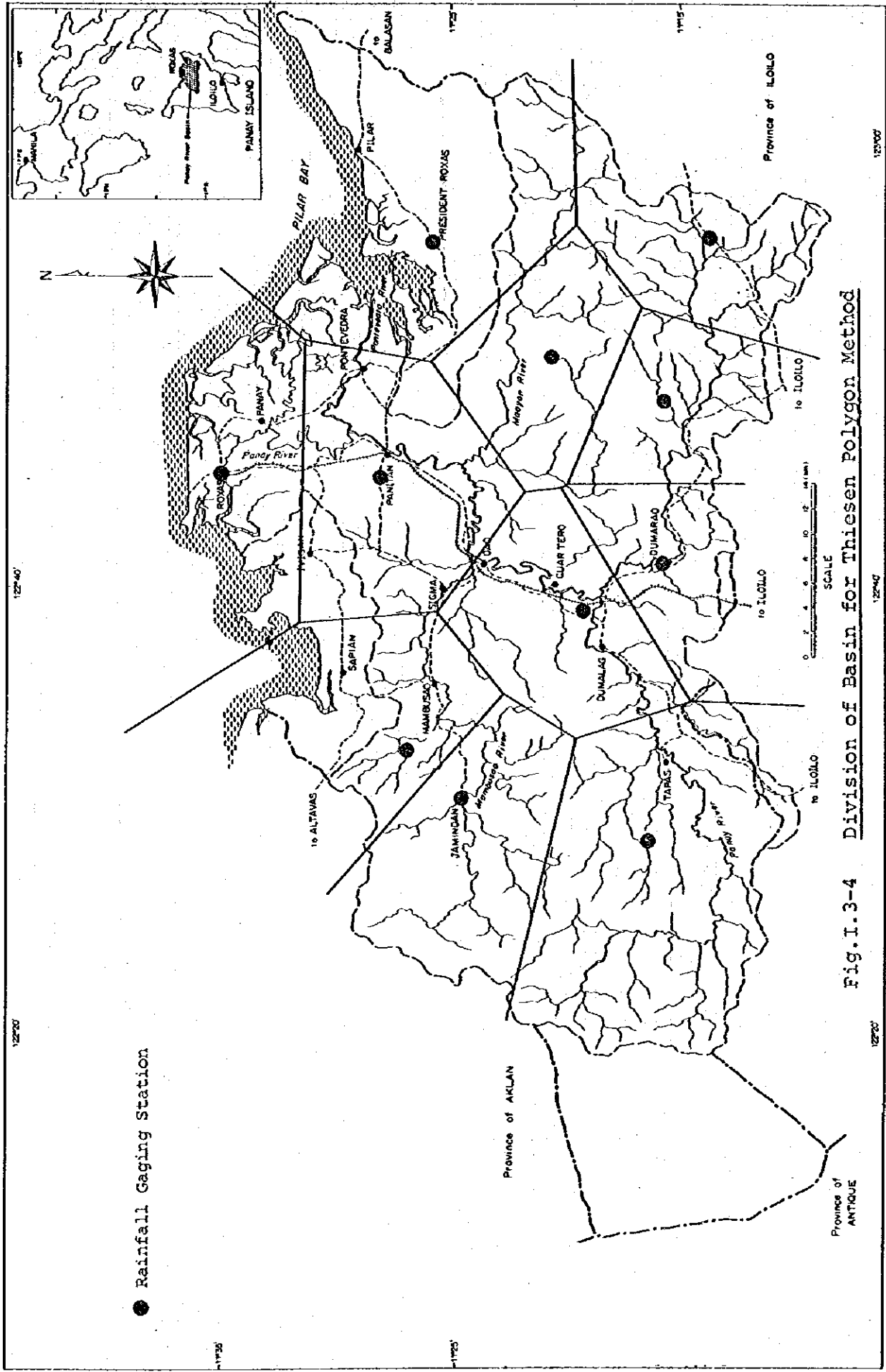


Fig. I.3-4 Division of Basin for Thiessen Polygon Method

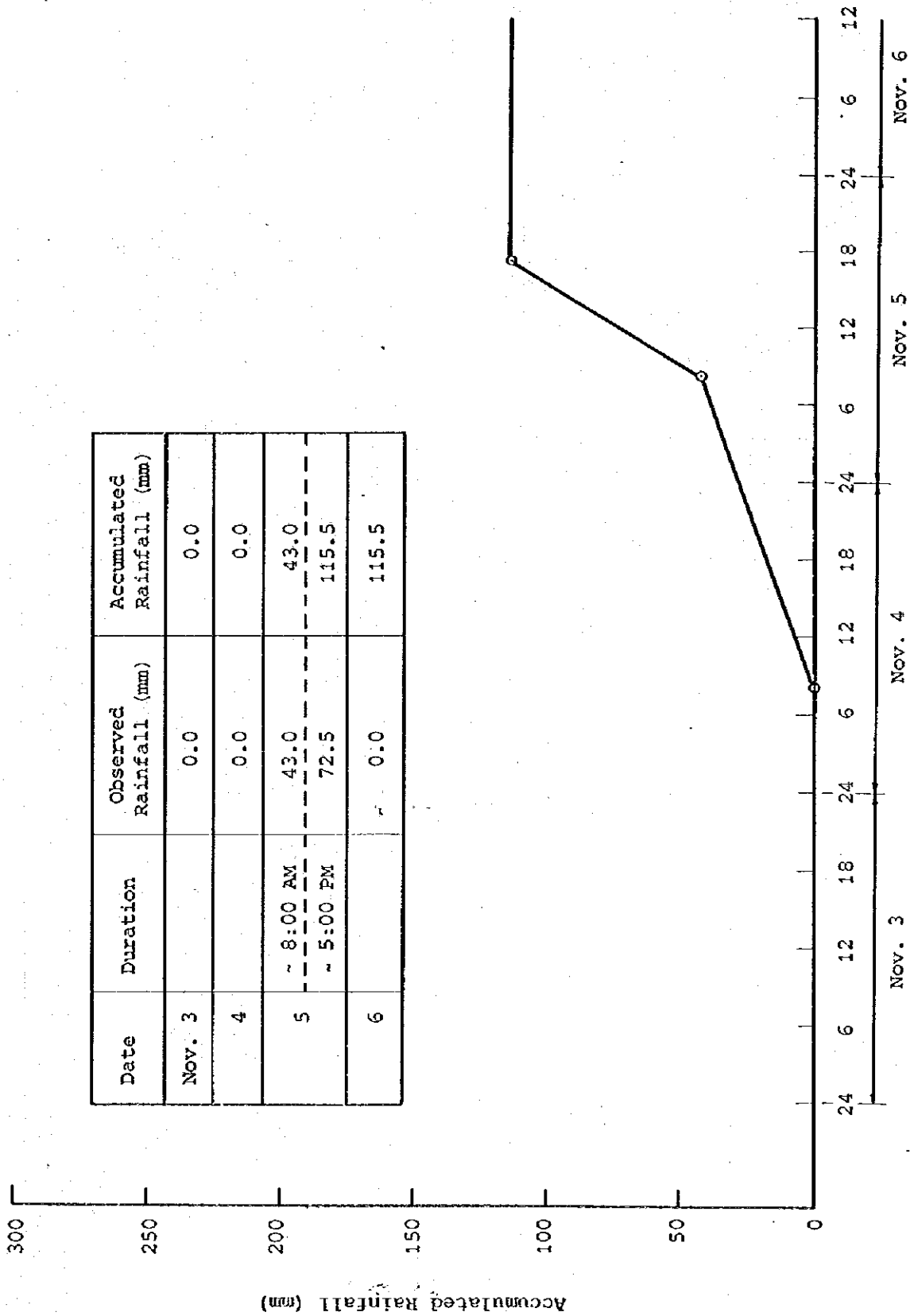


Fig. I.3-5 Accumulated Rainfall Curve, Station : Astorja

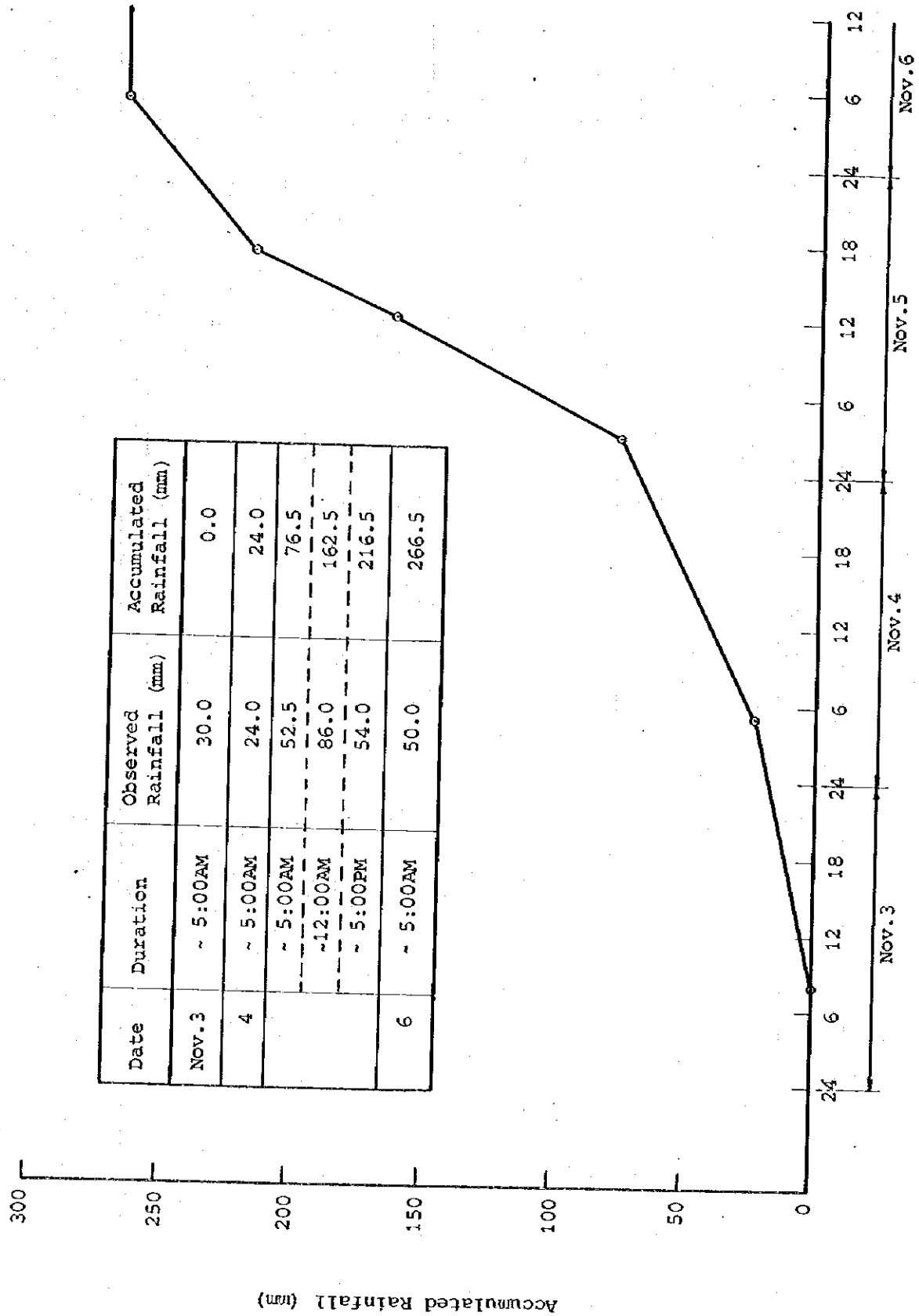


Fig. I.3-6 Accumulated Rainfall Curve, Station: Brgy. Roxas, Tapaz

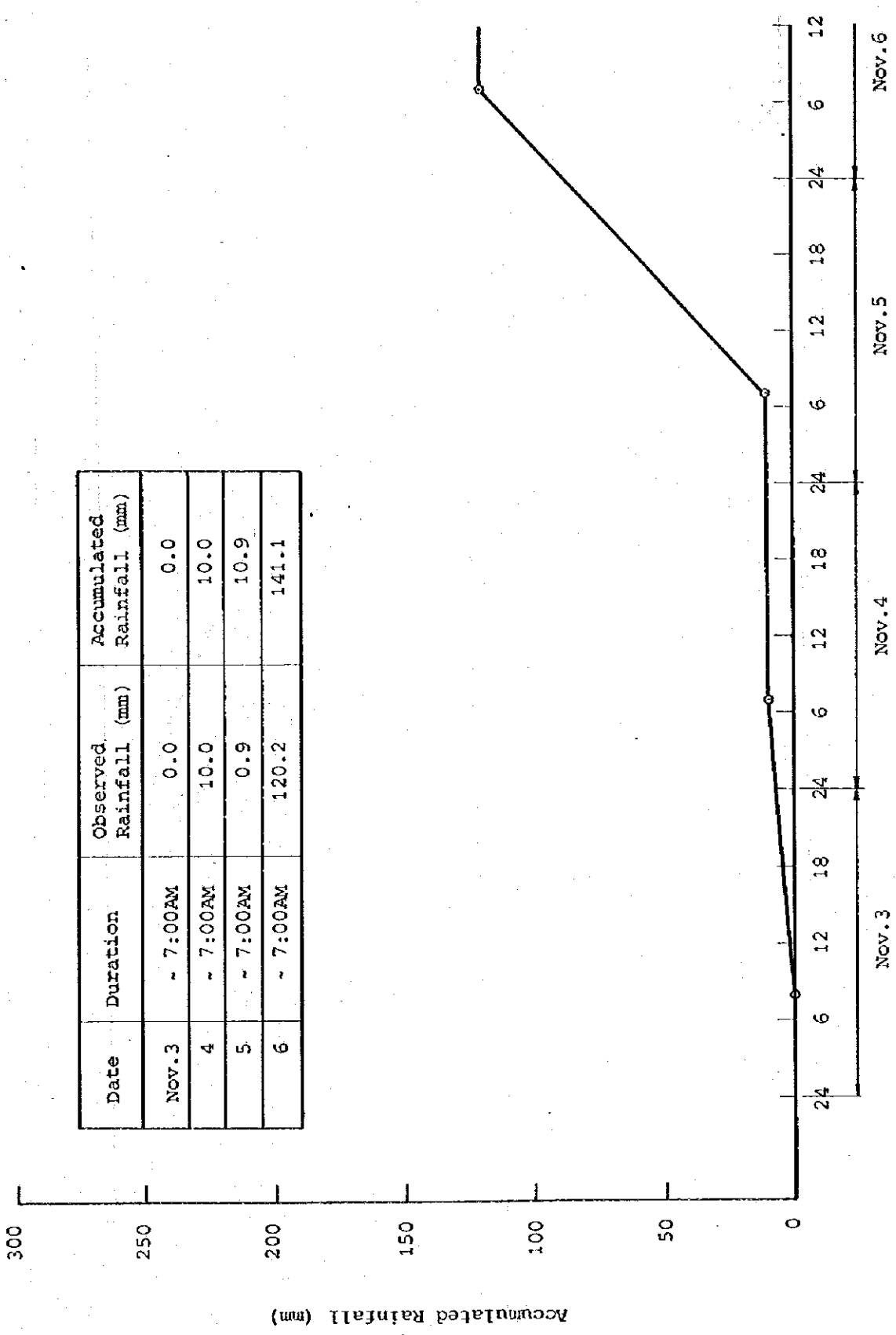


Fig. I-3-7 Accumulated Rainfall Curve, Station: NIA Mambusao

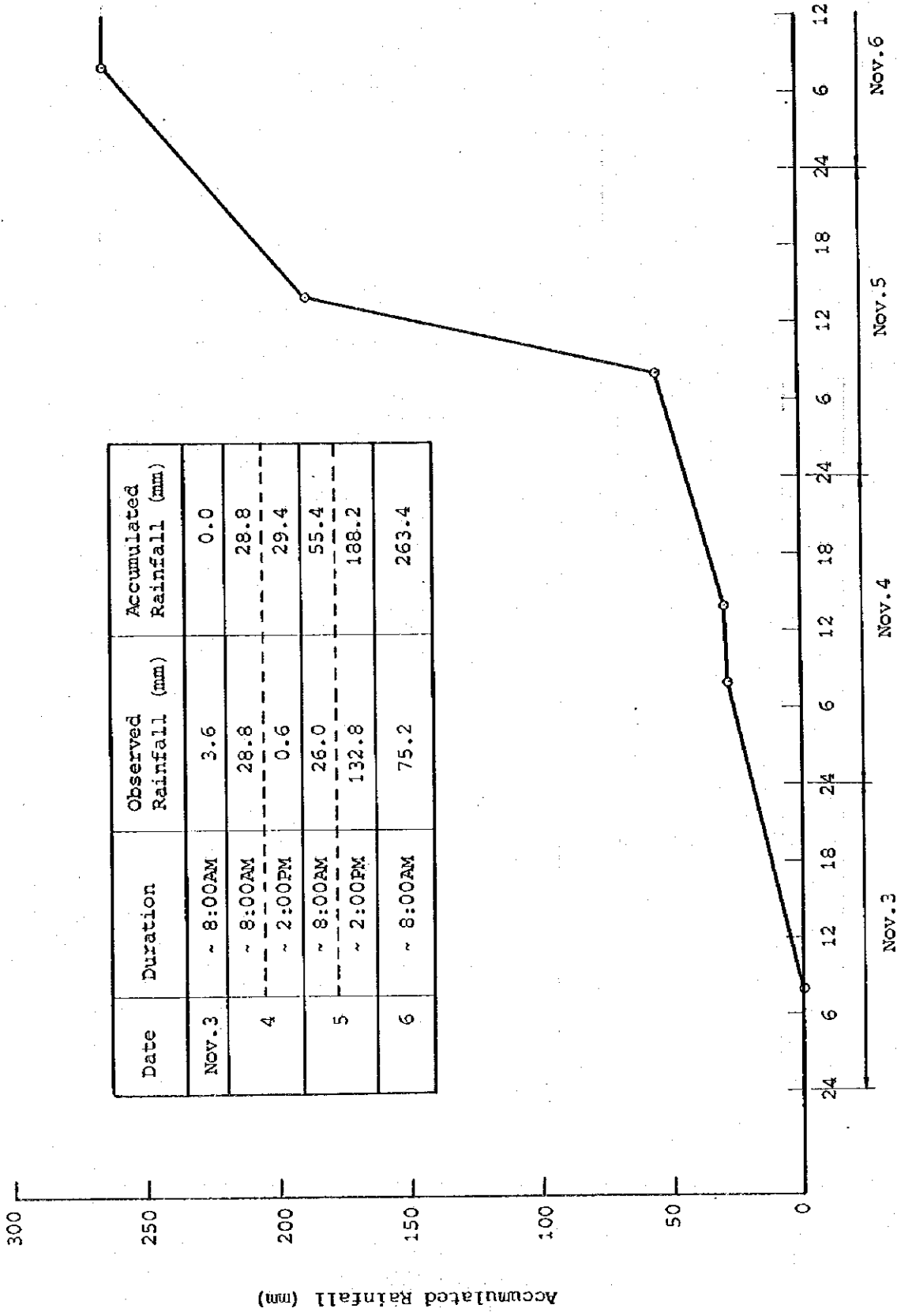


Fig. I. 3-8 Accumulated Rainfall Curve, Station: Matec Mambusao

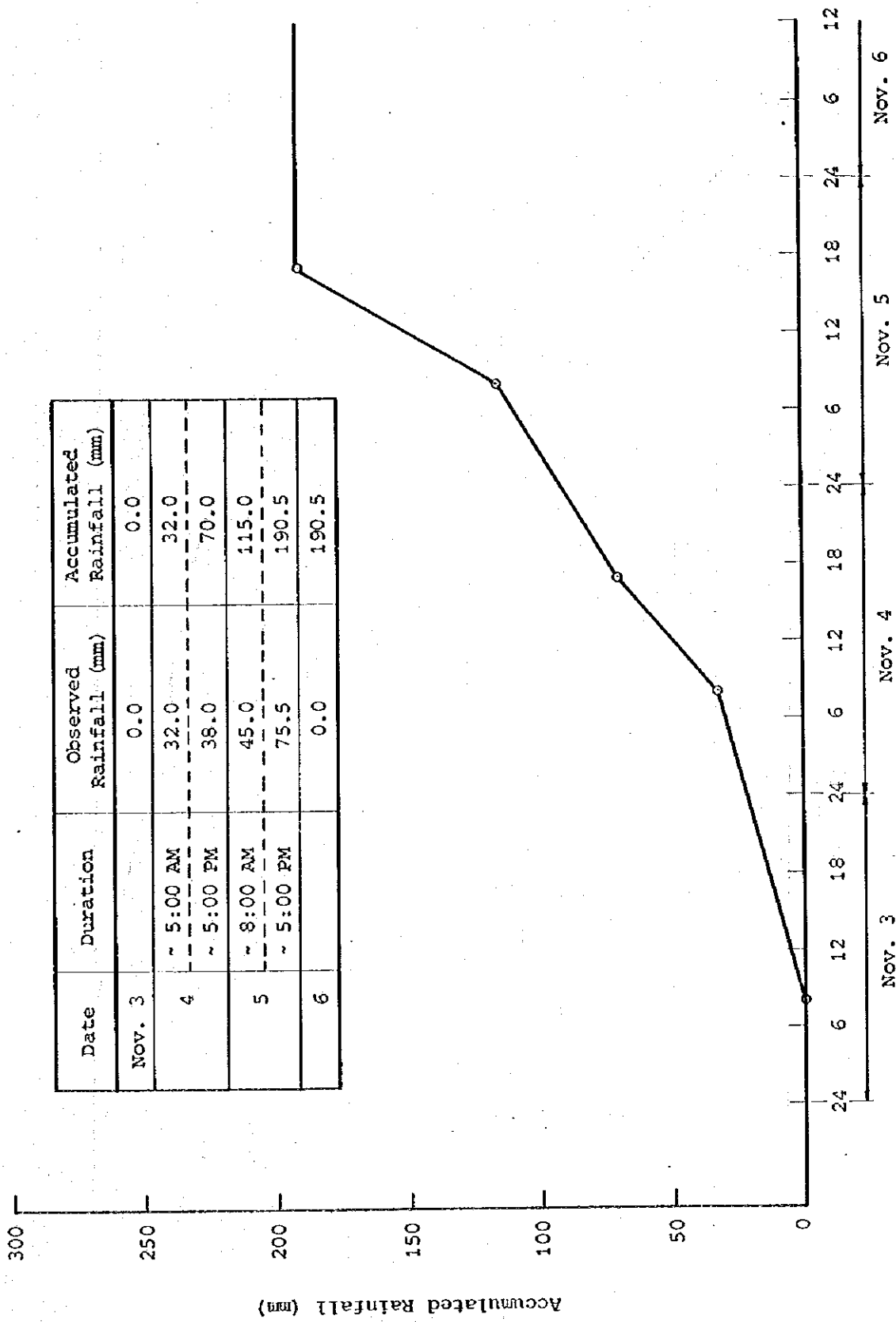


Fig.I.3-9 Accumulated Rainfall Curve, Station : Villaflores

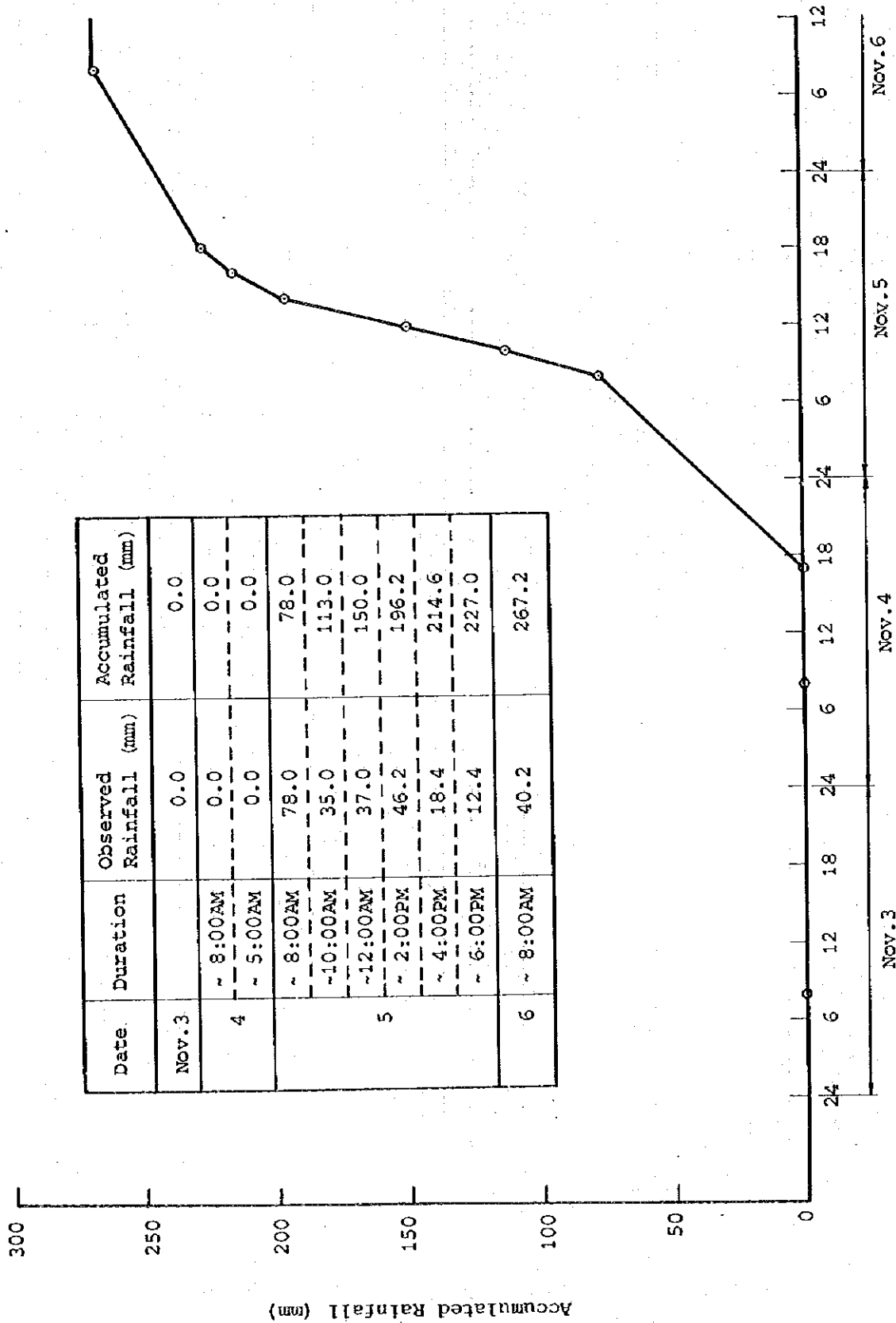


Fig. I.3-10 Accumulated Rainfall Curve, Station : Jamindan

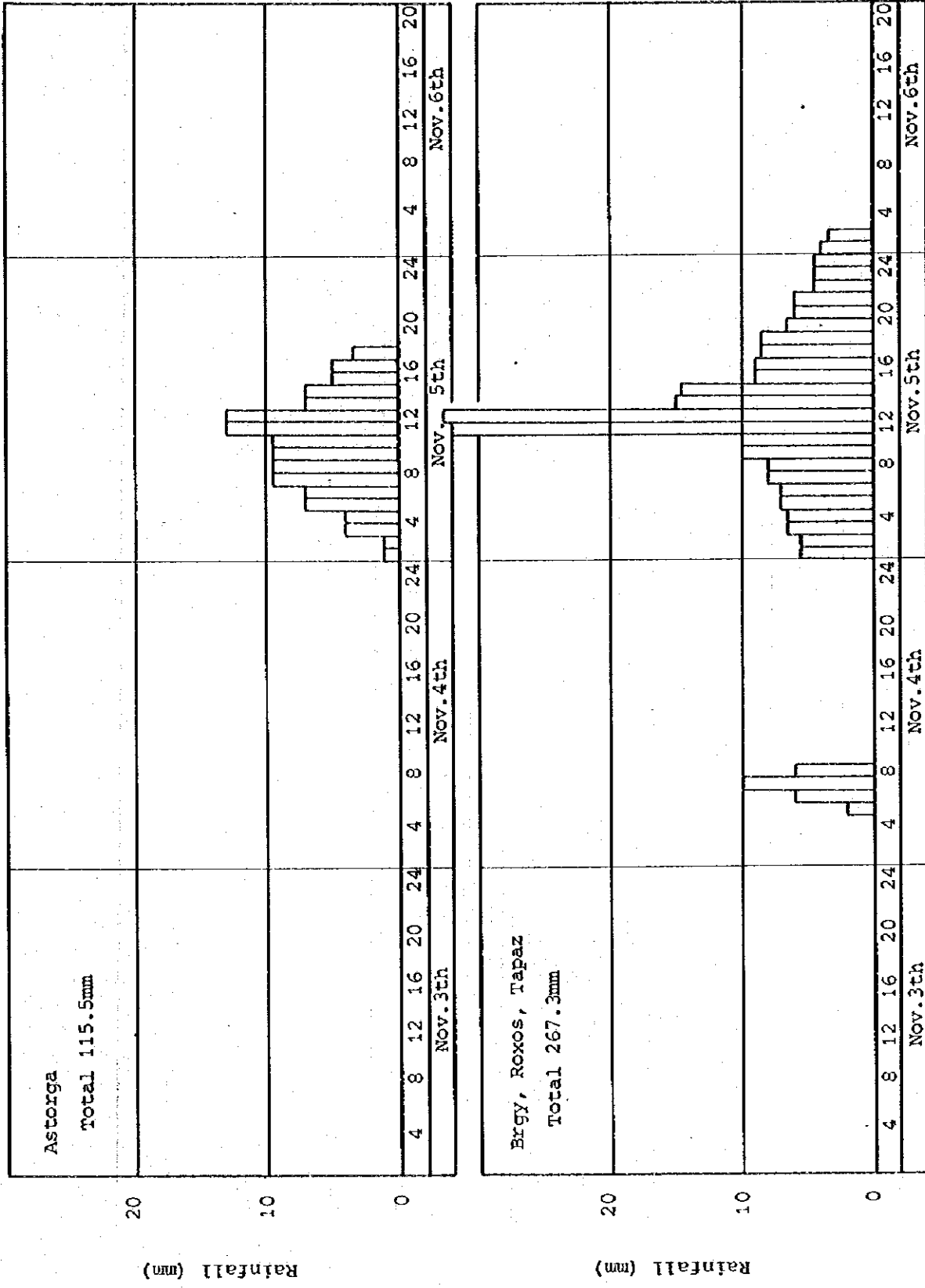


Fig. I. 3-11 Hourly Rainfall Distribution (1)

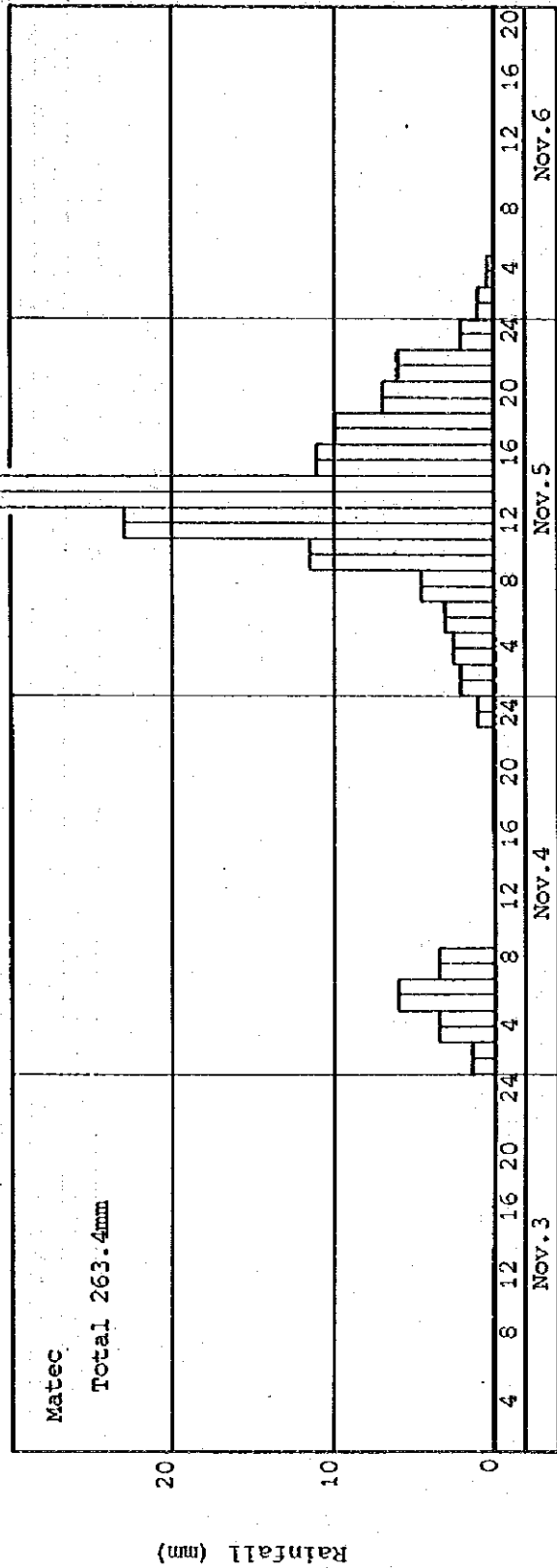
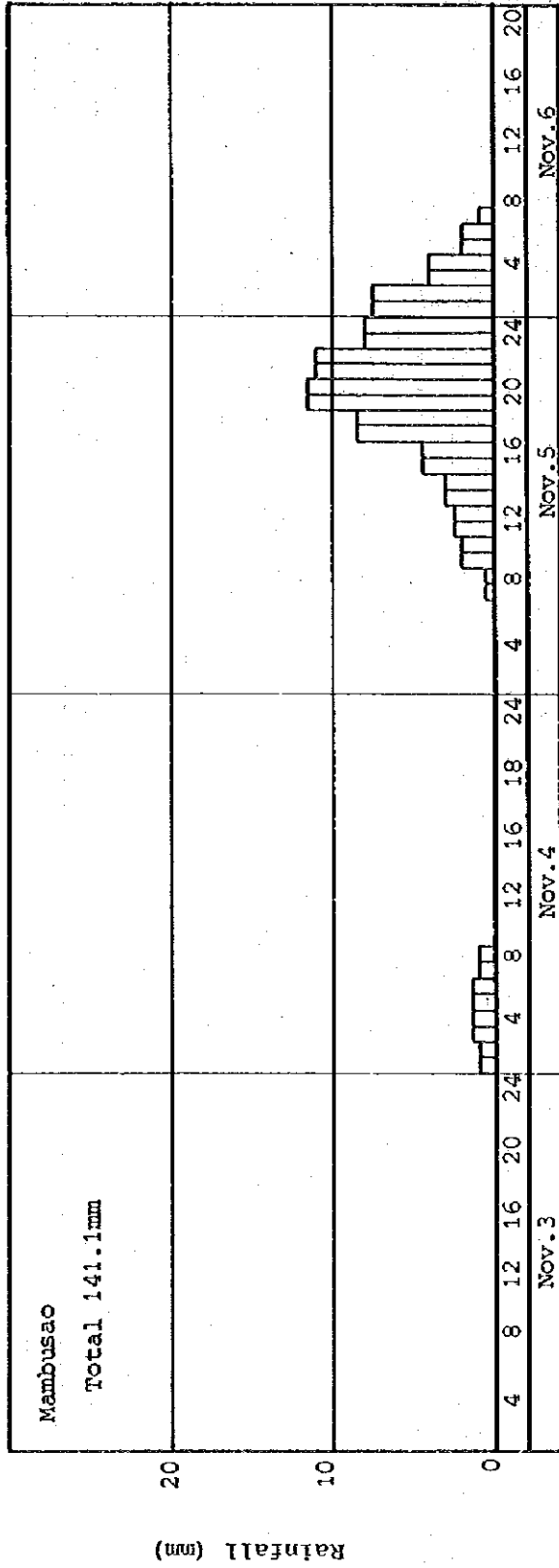


Fig. I.3-12 Hourly Rainfall Distribution (2)

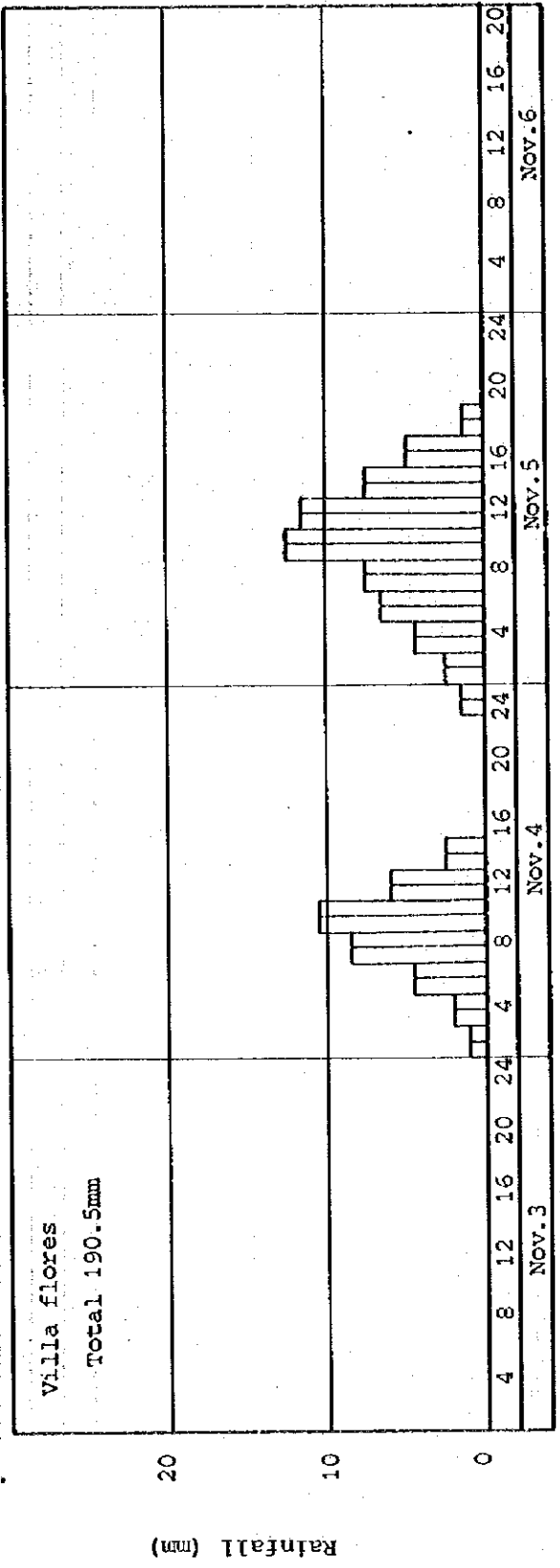
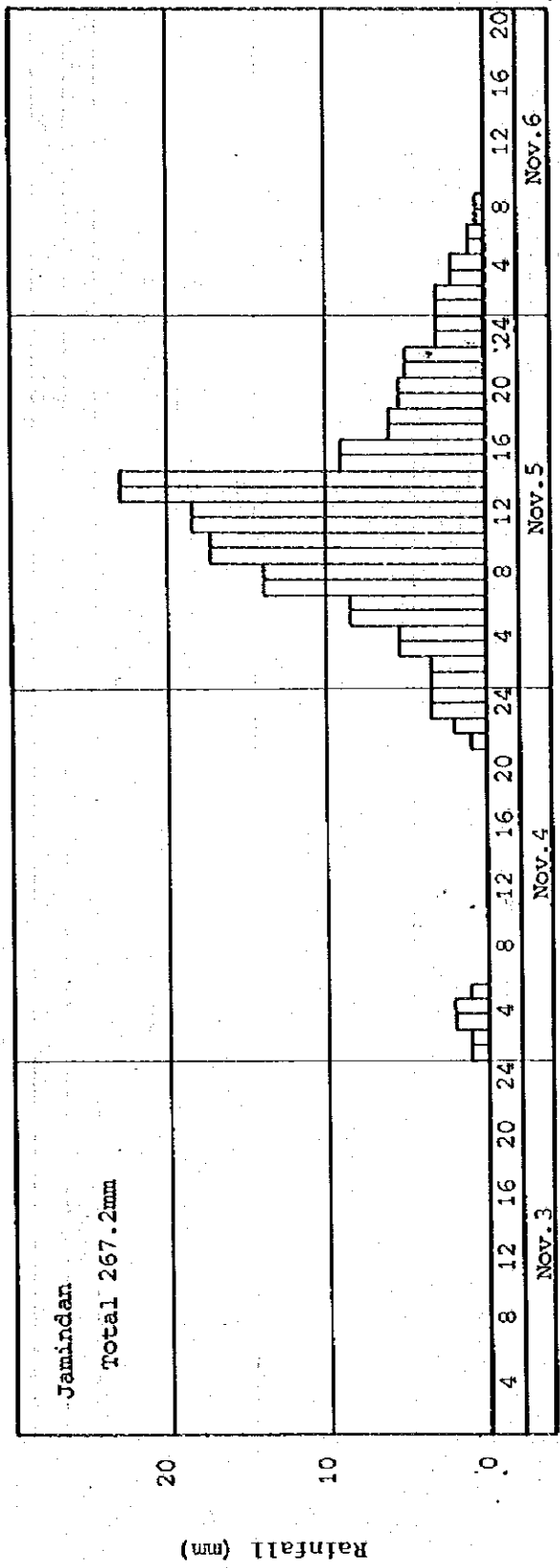


Fig. I. 3-13 Hourly Rainfall Distribution (3)

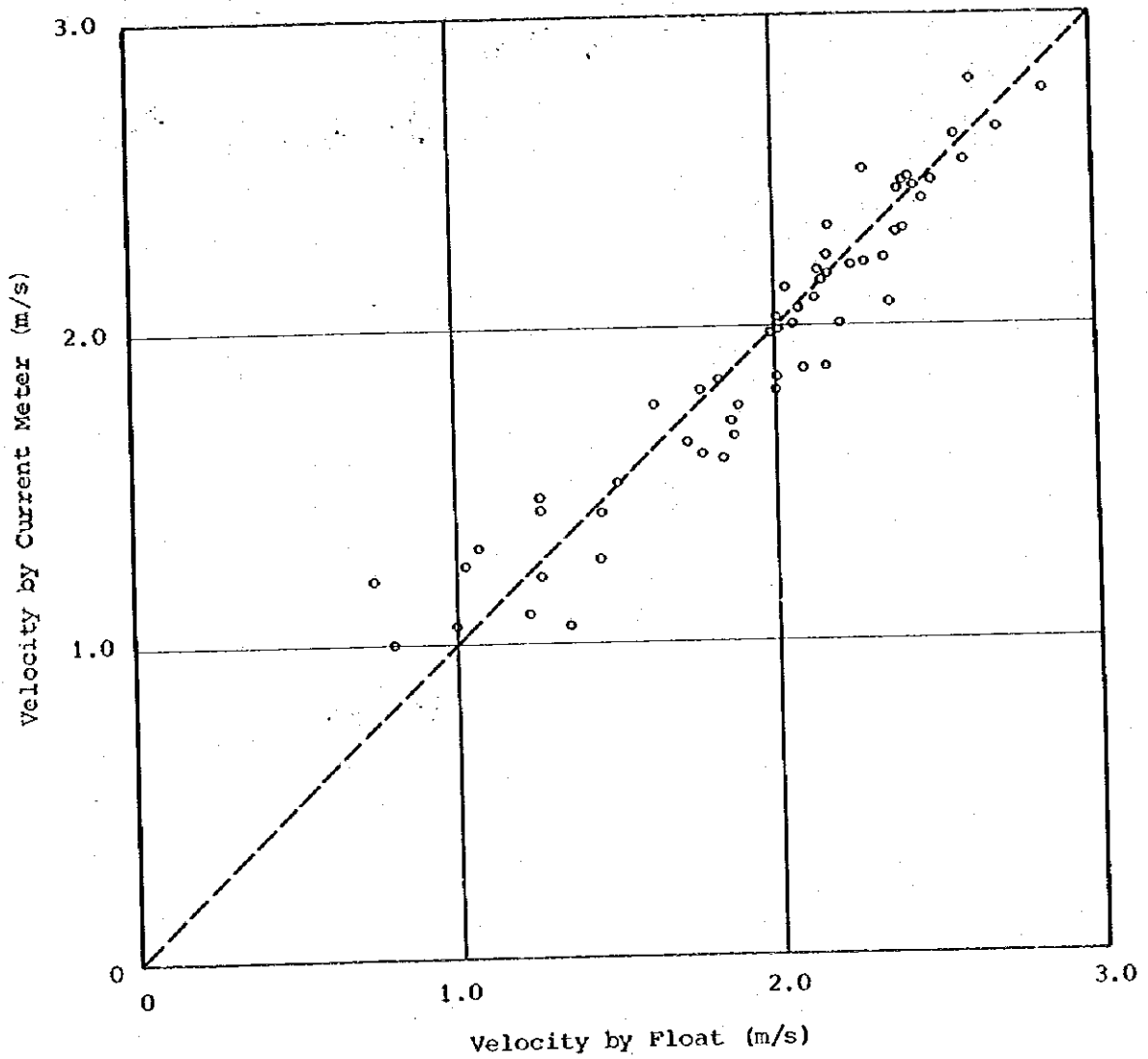


Fig. I.3-14 Comparison of Velocity by Current Meter and Float

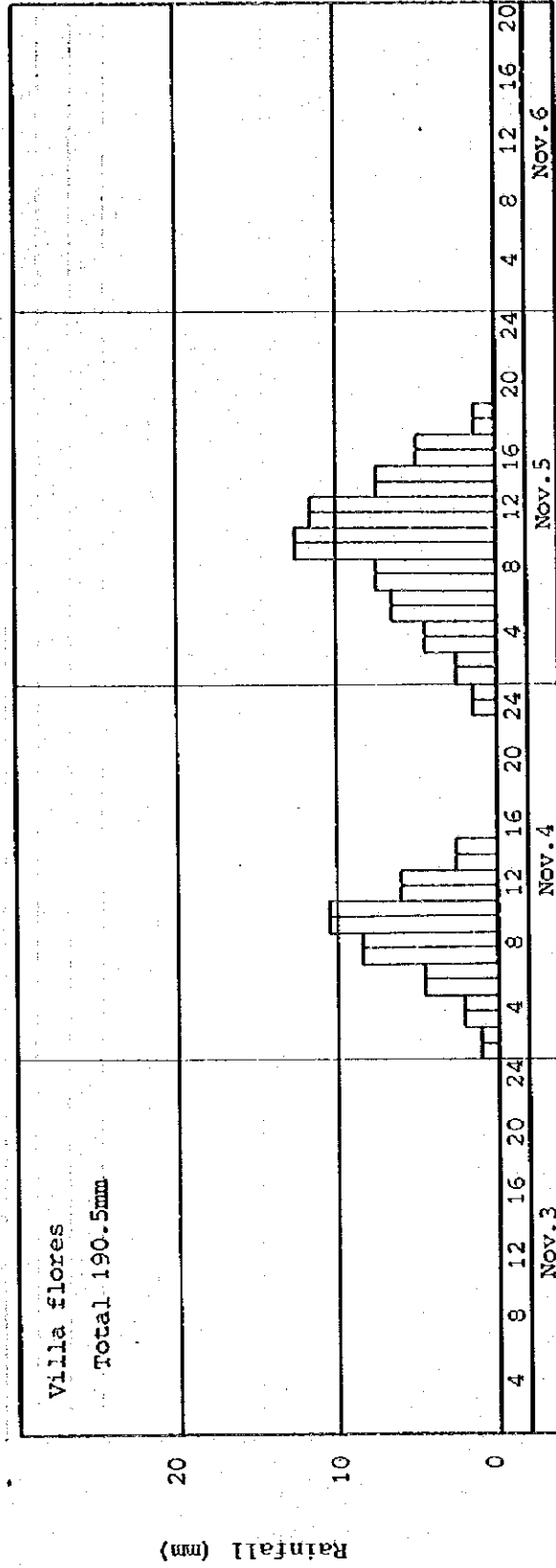
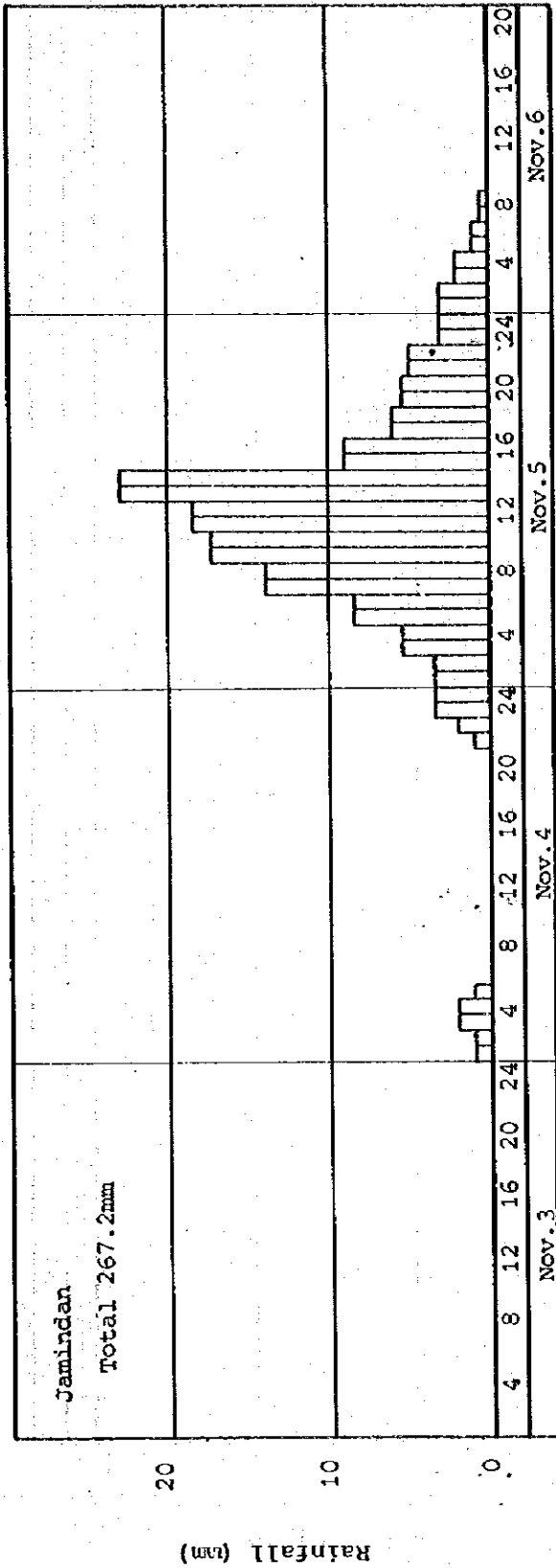


Fig.I.3-13 Hourly Rainfall Distribution (3)

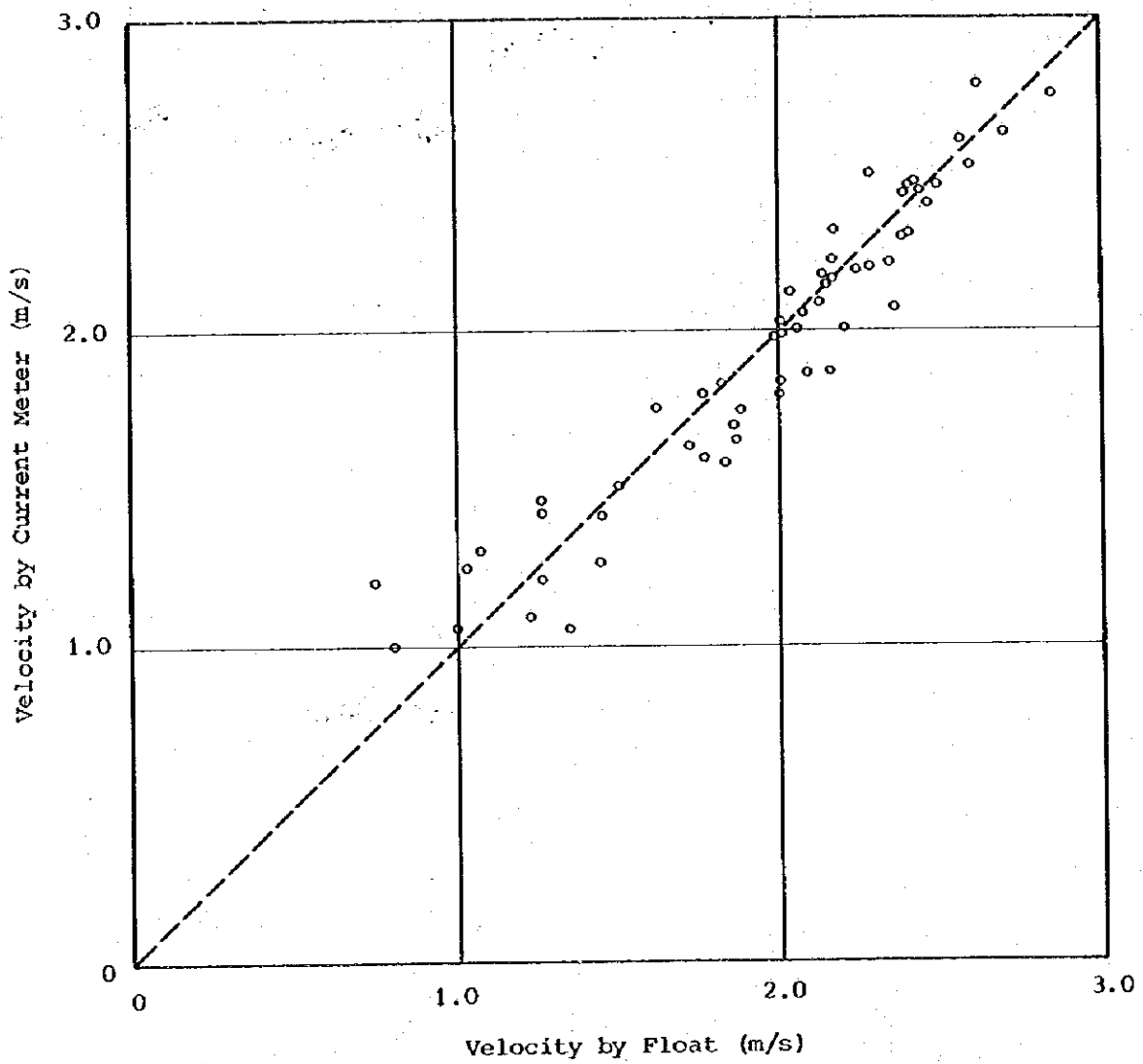


Fig. I.3-14 Comparison of Velocity
by Current Meter and Float

G.H.0m = EL. -1.19m

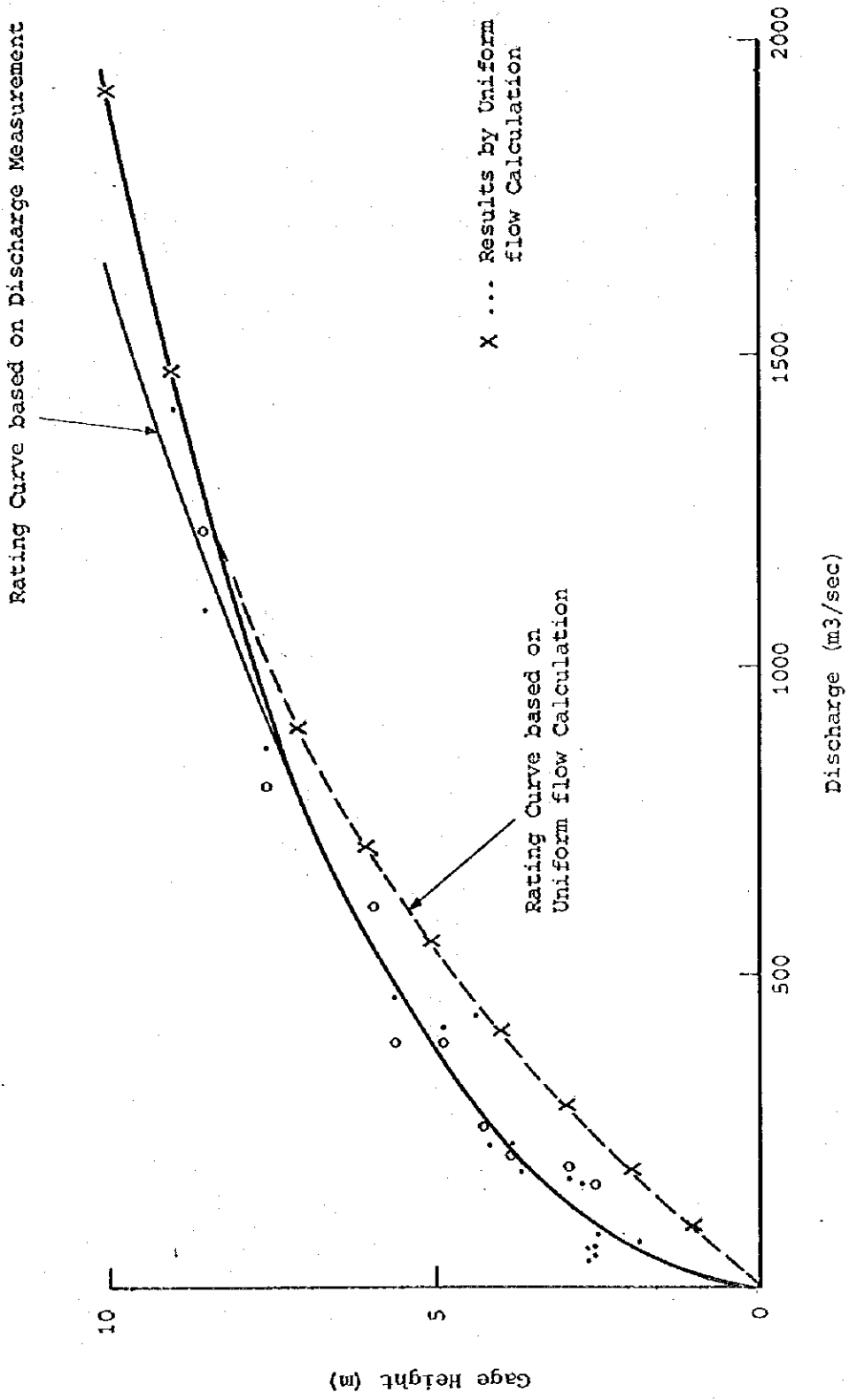


Fig. I-3-15 Rating Curve at Panitan Gaging Station

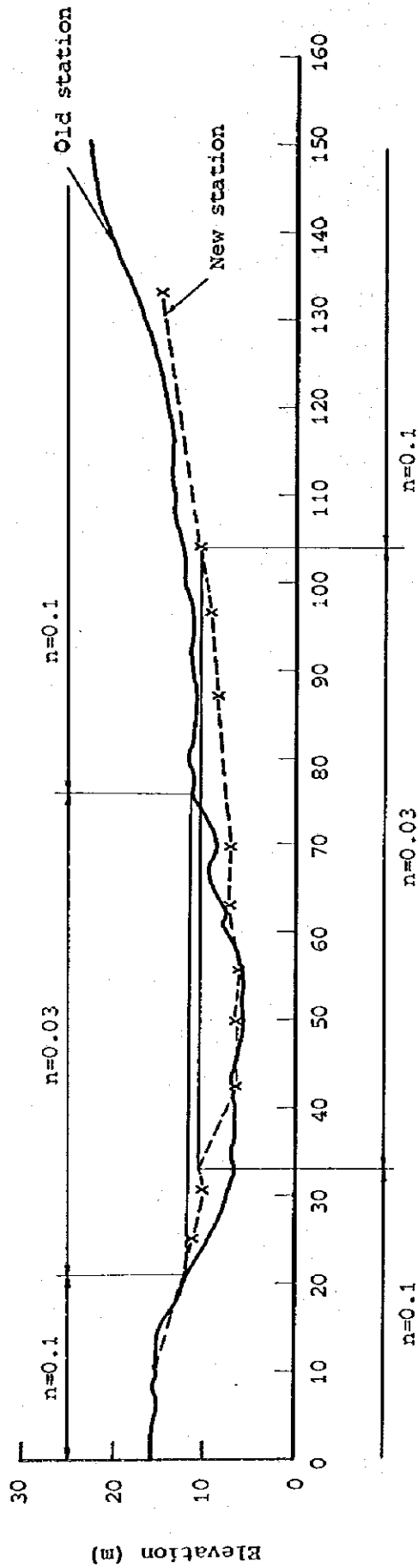


Fig. I. 3-16 Cross Section of Quartero Gauging Station

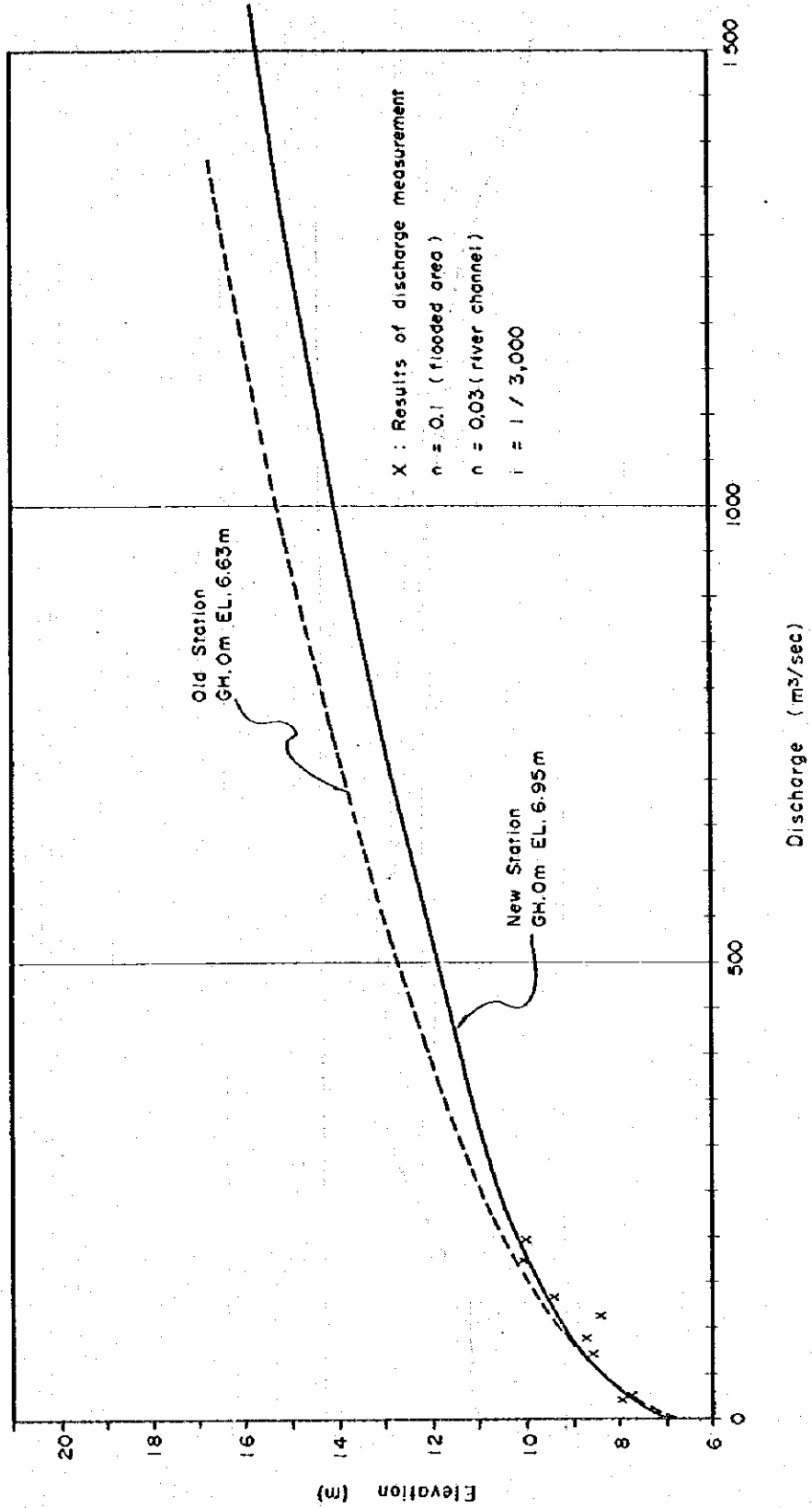


Fig. I.3-17 RATING CURVE AT CUARTERO GAGLENG STATION

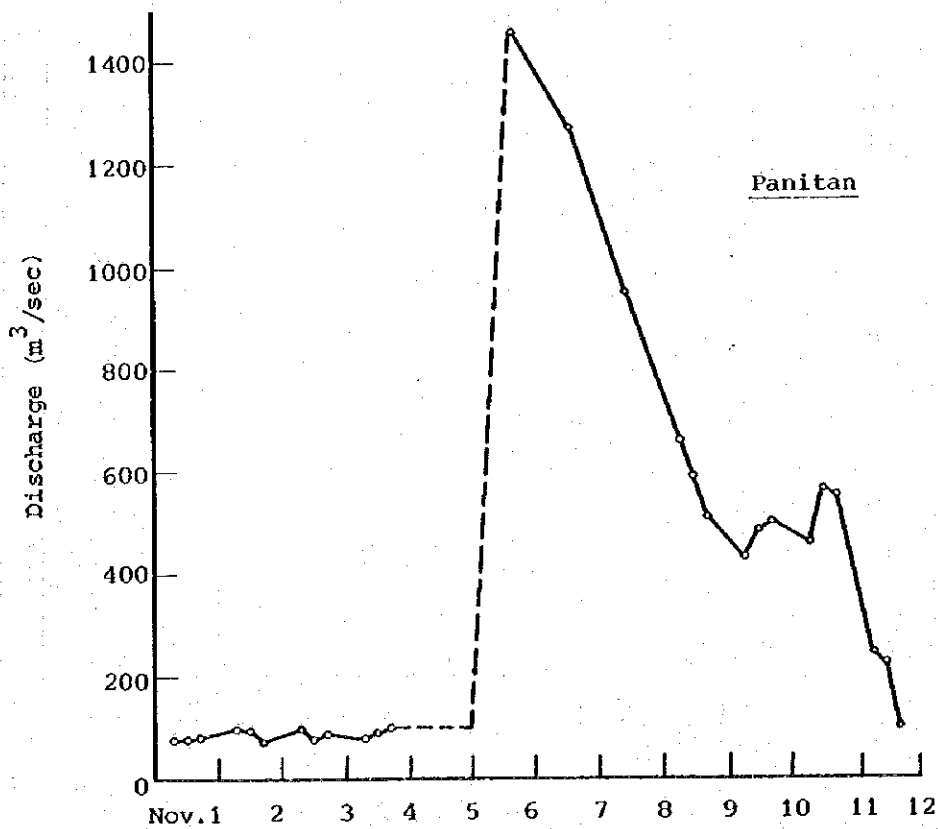
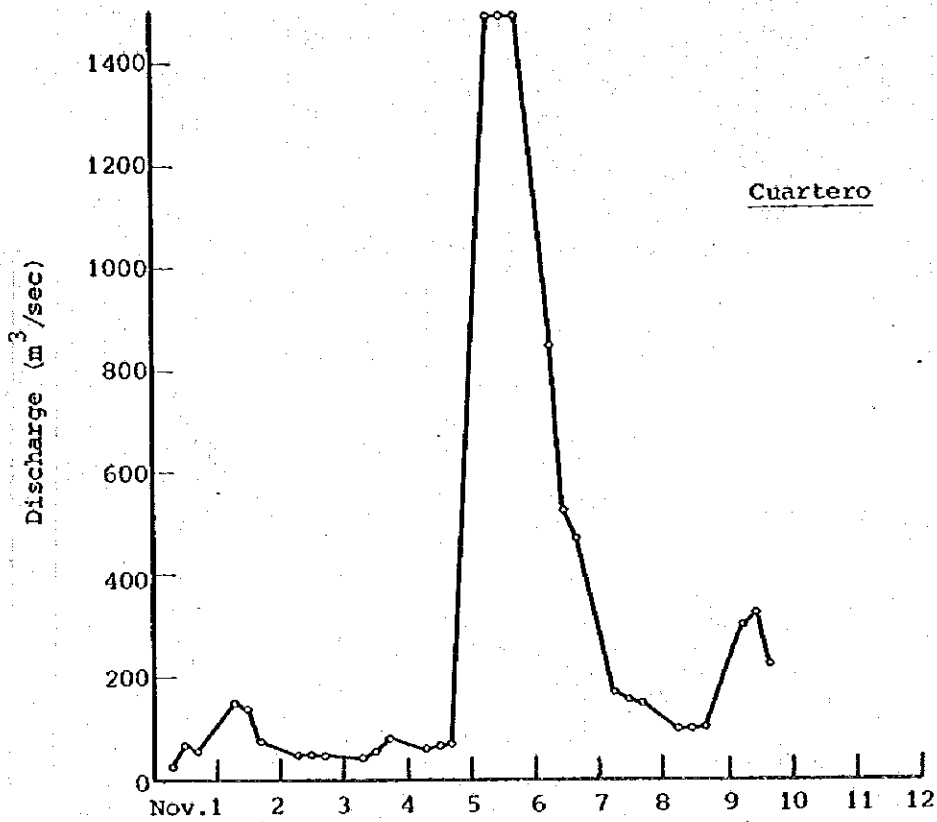


Fig. I.3-18. Flood Hydrograph at Cuartero and Panitan at the time of "Undang" Flood

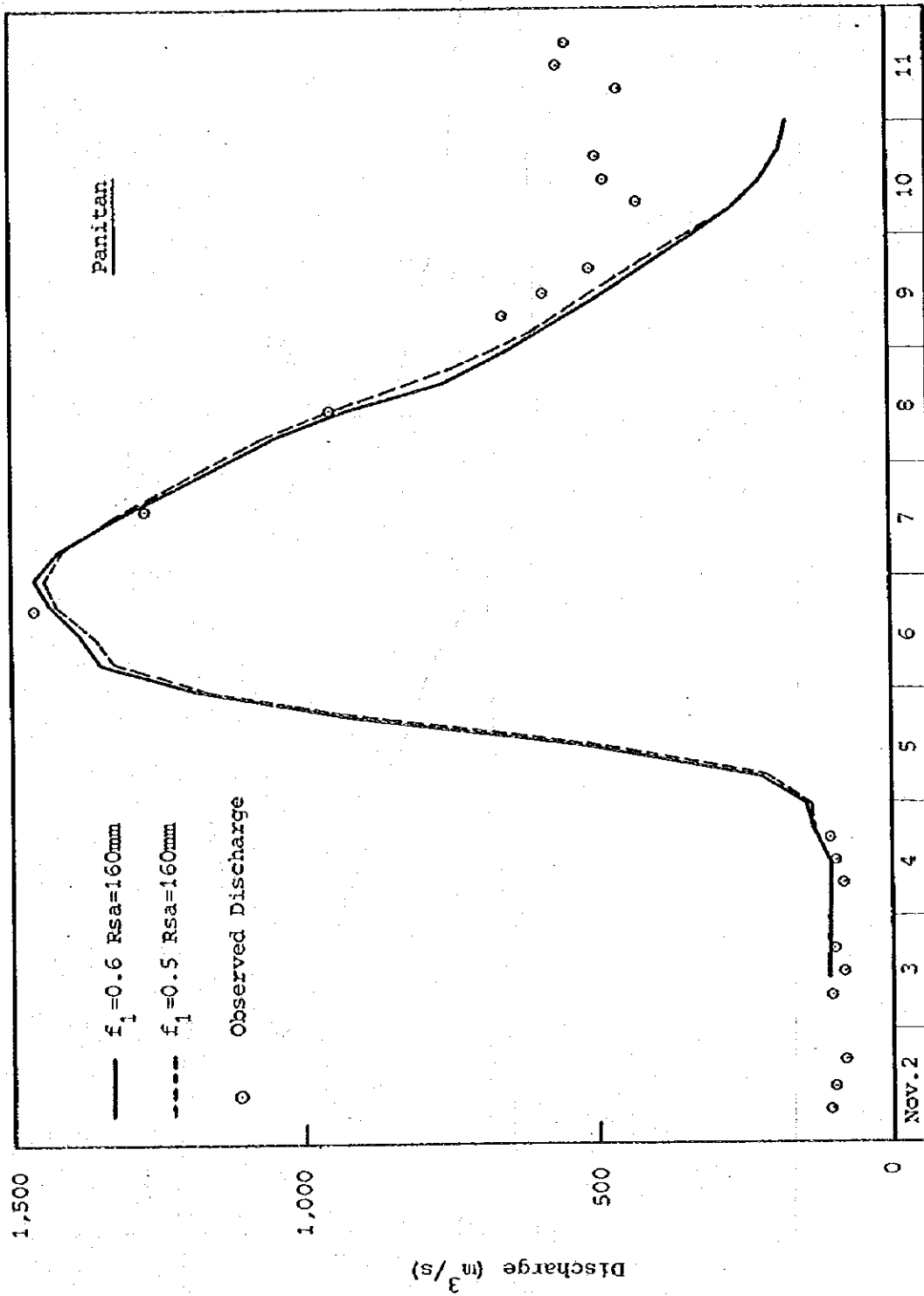


Fig.I.3-19 Simulated Flood Hydrograph at Panitan during "UNDANG" Flood

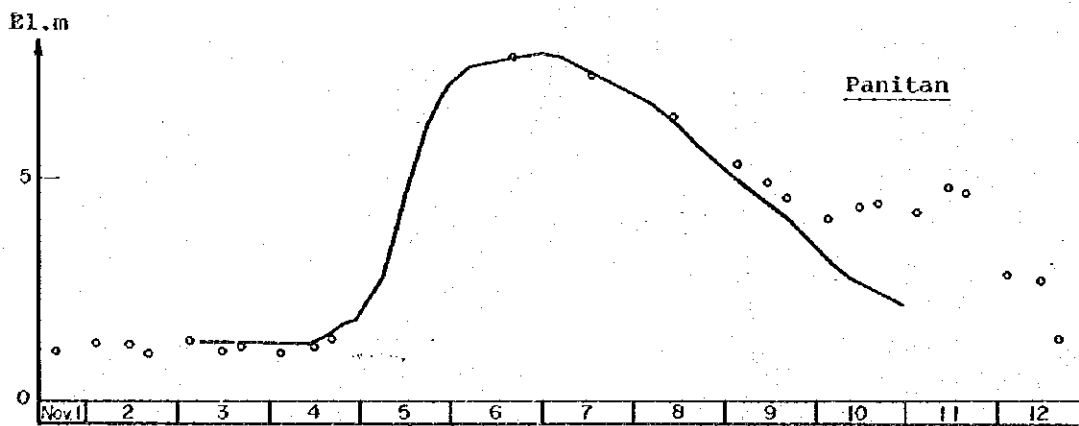
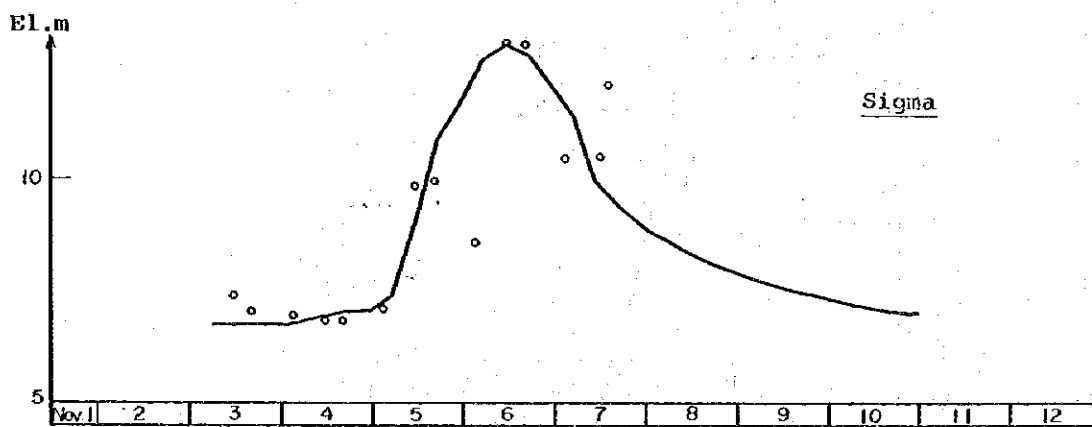
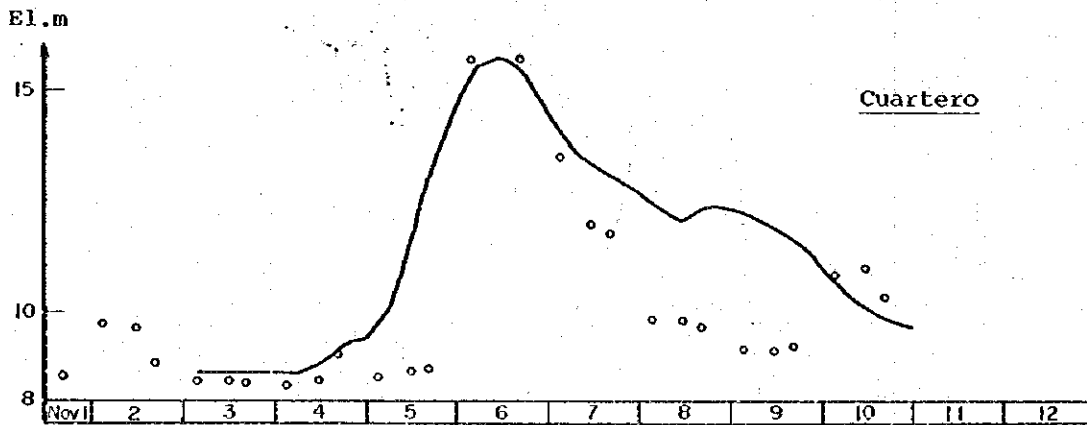
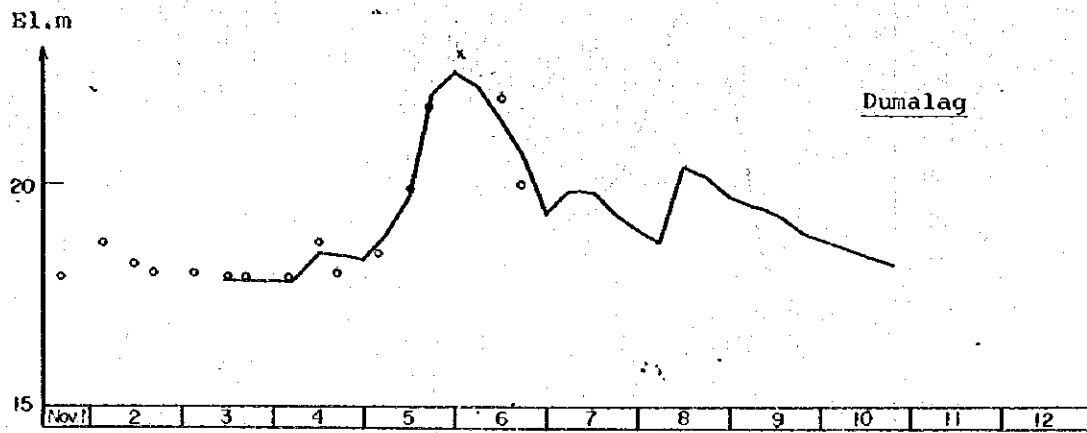


Fig.I.3-20 Simulated Water Stage Hydrographs at Dumalag, Cuartero, Signa, and Panitan During "Undang" Flood

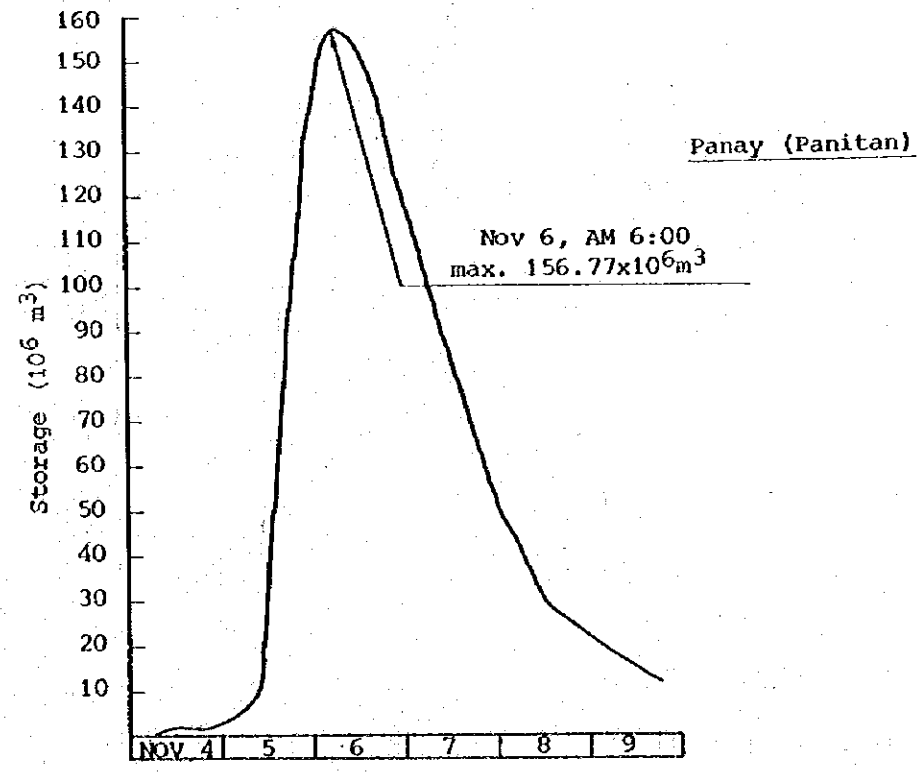
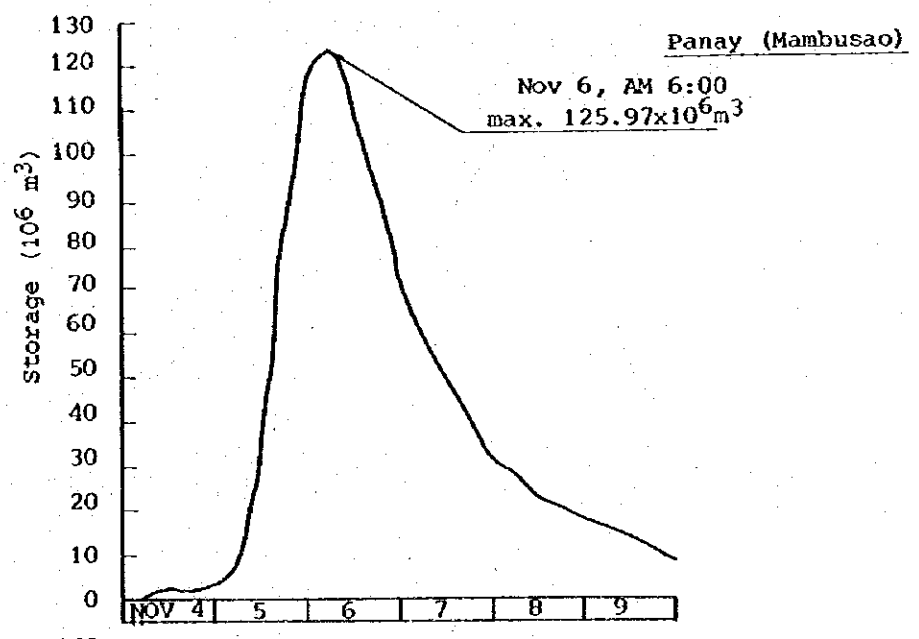
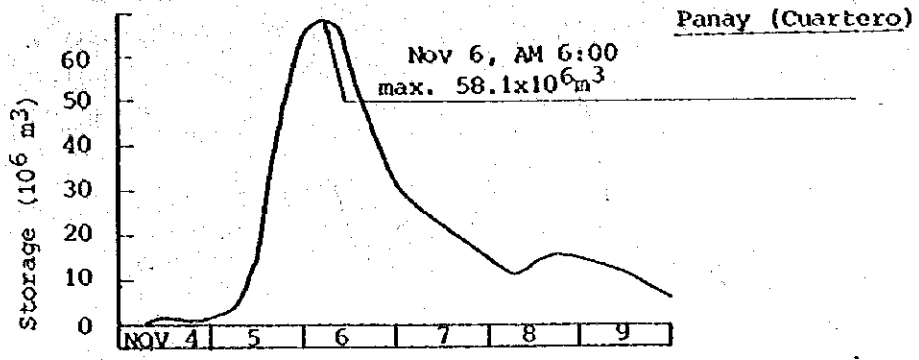


Fig.1.3-21 Flood Storage Volume Hydrograph during "Undang" Flood (1)

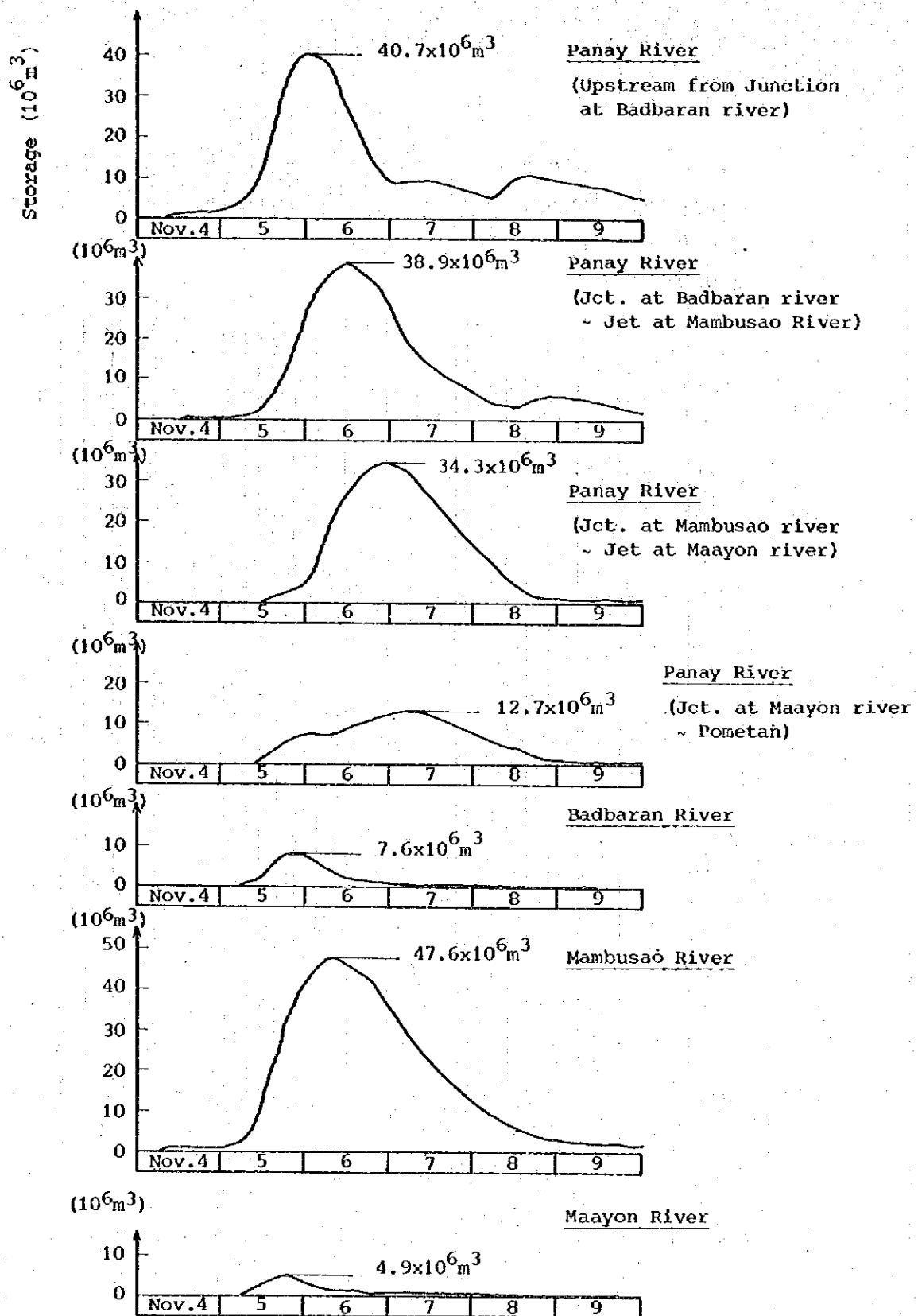


Fig. I. 3-22 Flood Storage Volume Hydrograph During Undang Flood (2)

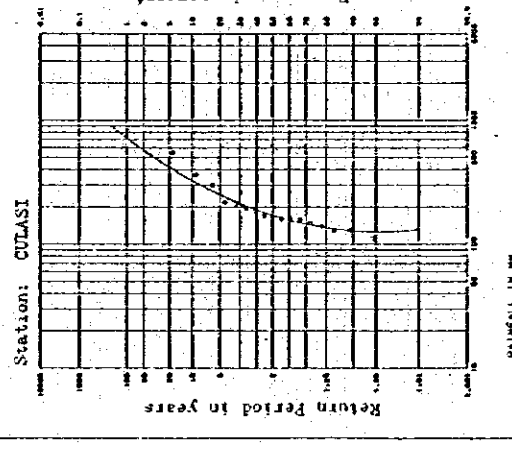
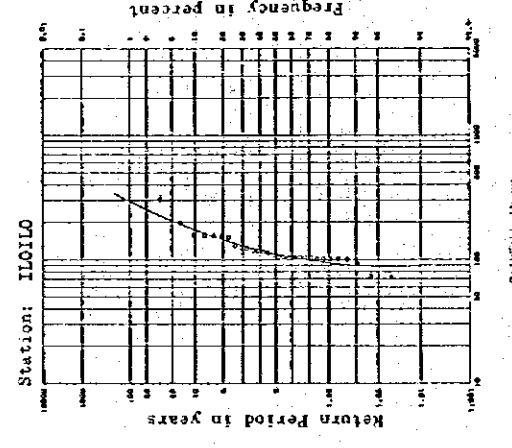
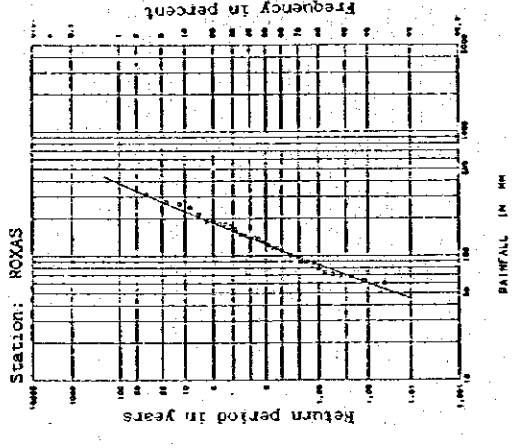
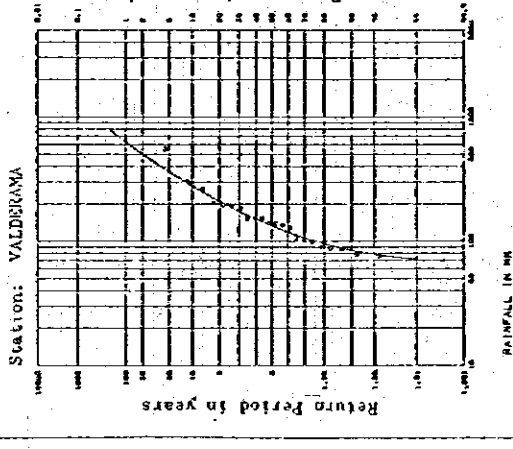
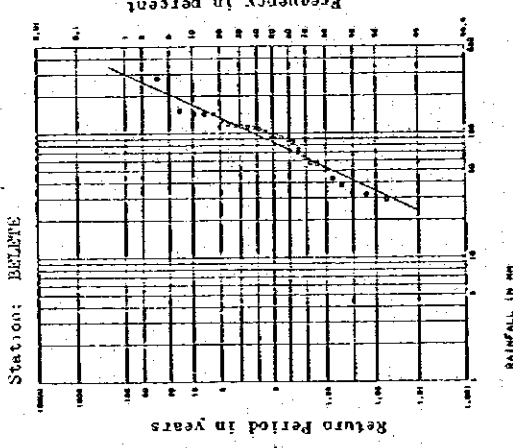
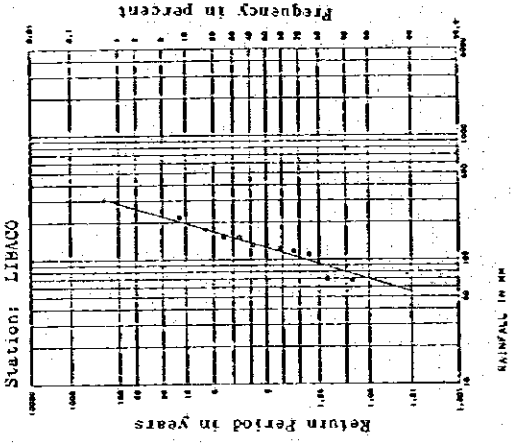
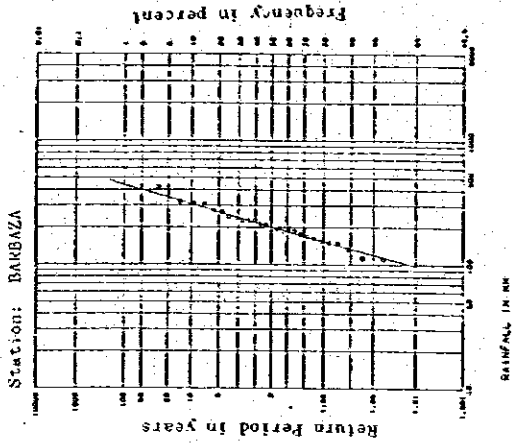


Fig.I.3-24 Frequency Curve of Annual Maximum 1-Day Rainfall

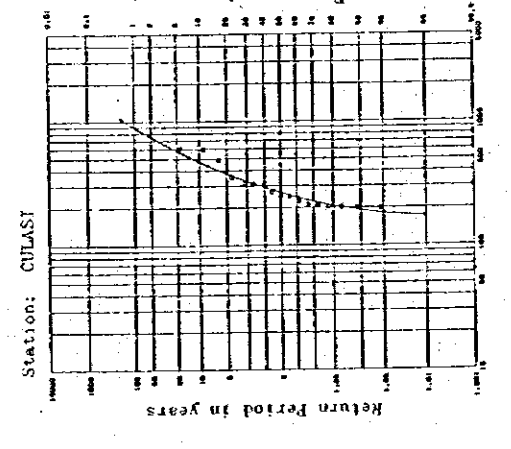
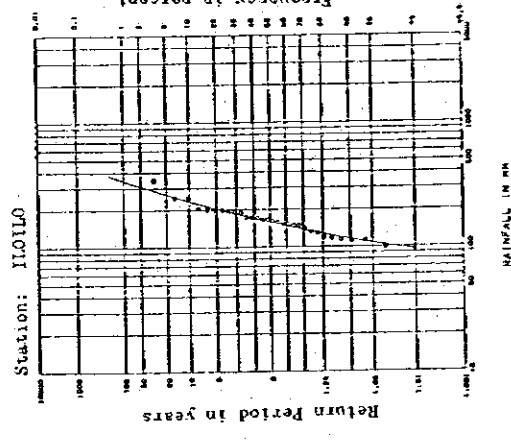
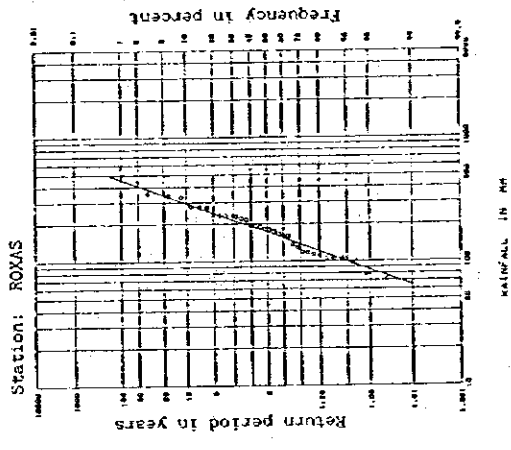
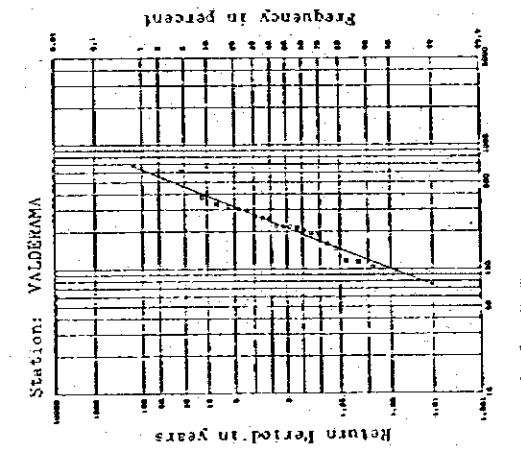
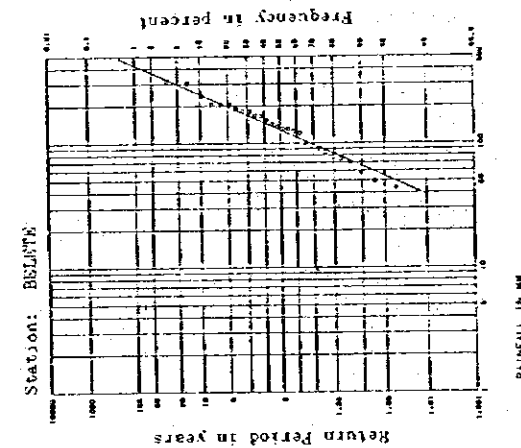
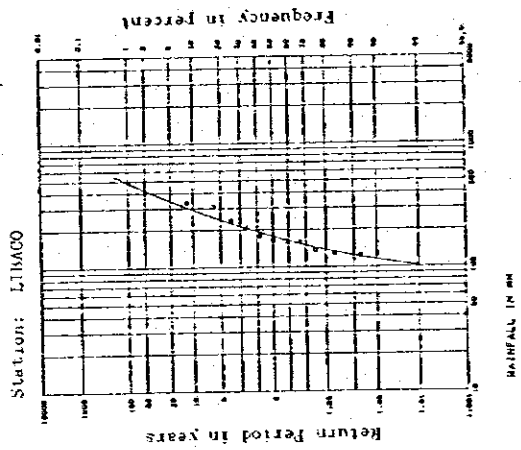
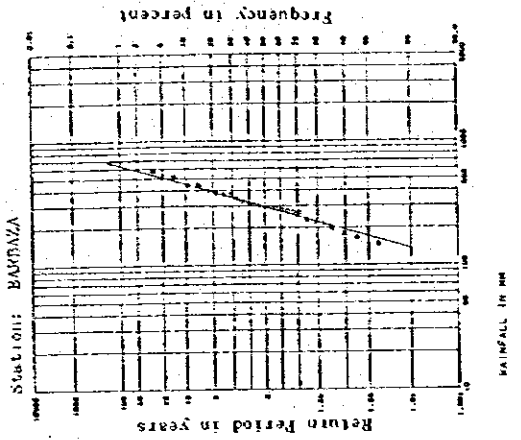


Fig. I.3-25 Frequency Curve of Annual Maximum 2-Day Rainfall

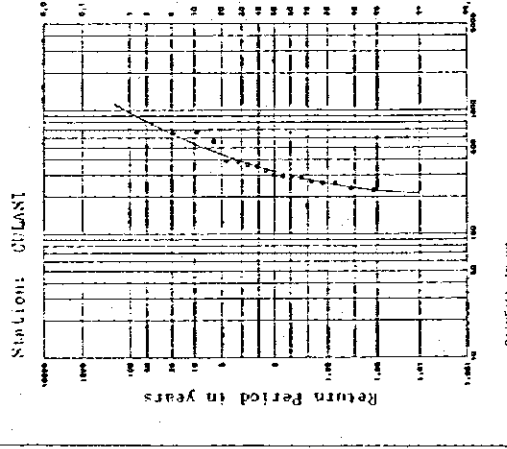
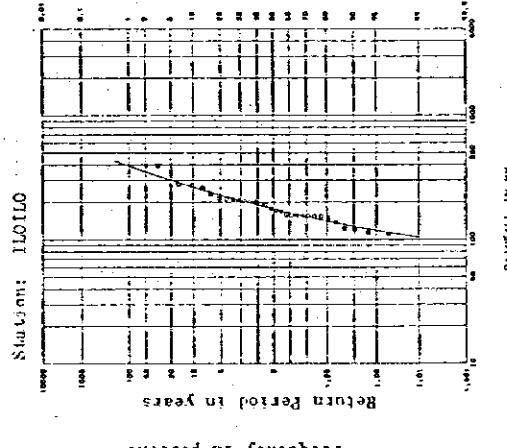
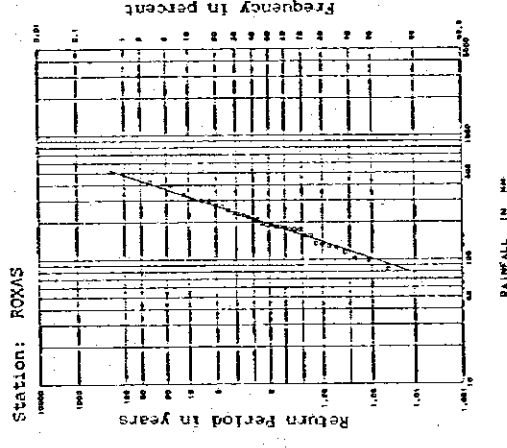
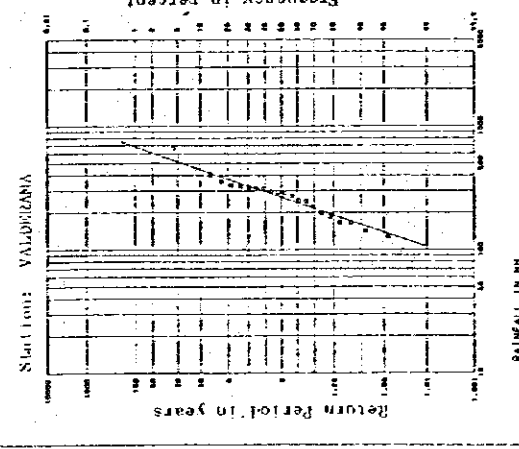
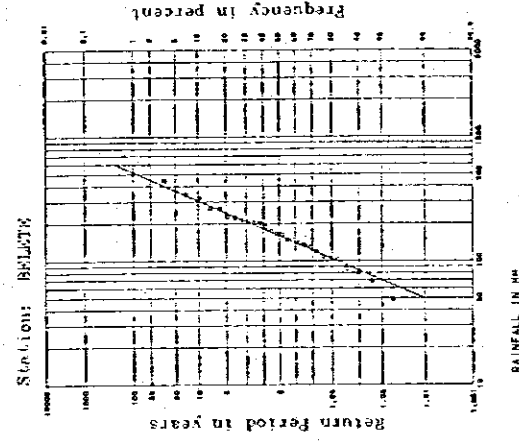
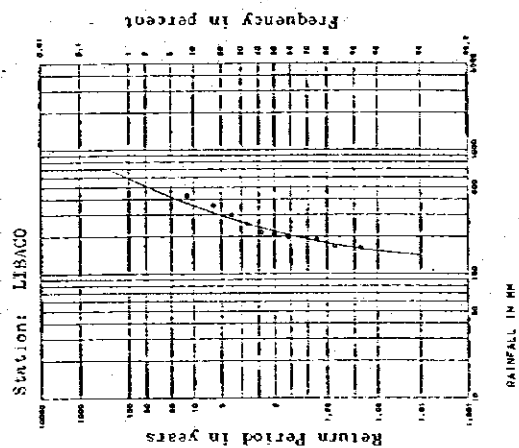
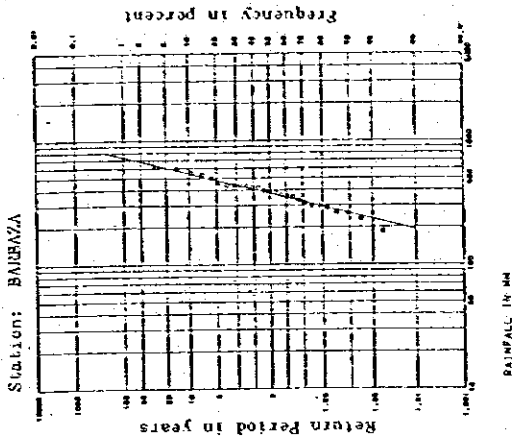
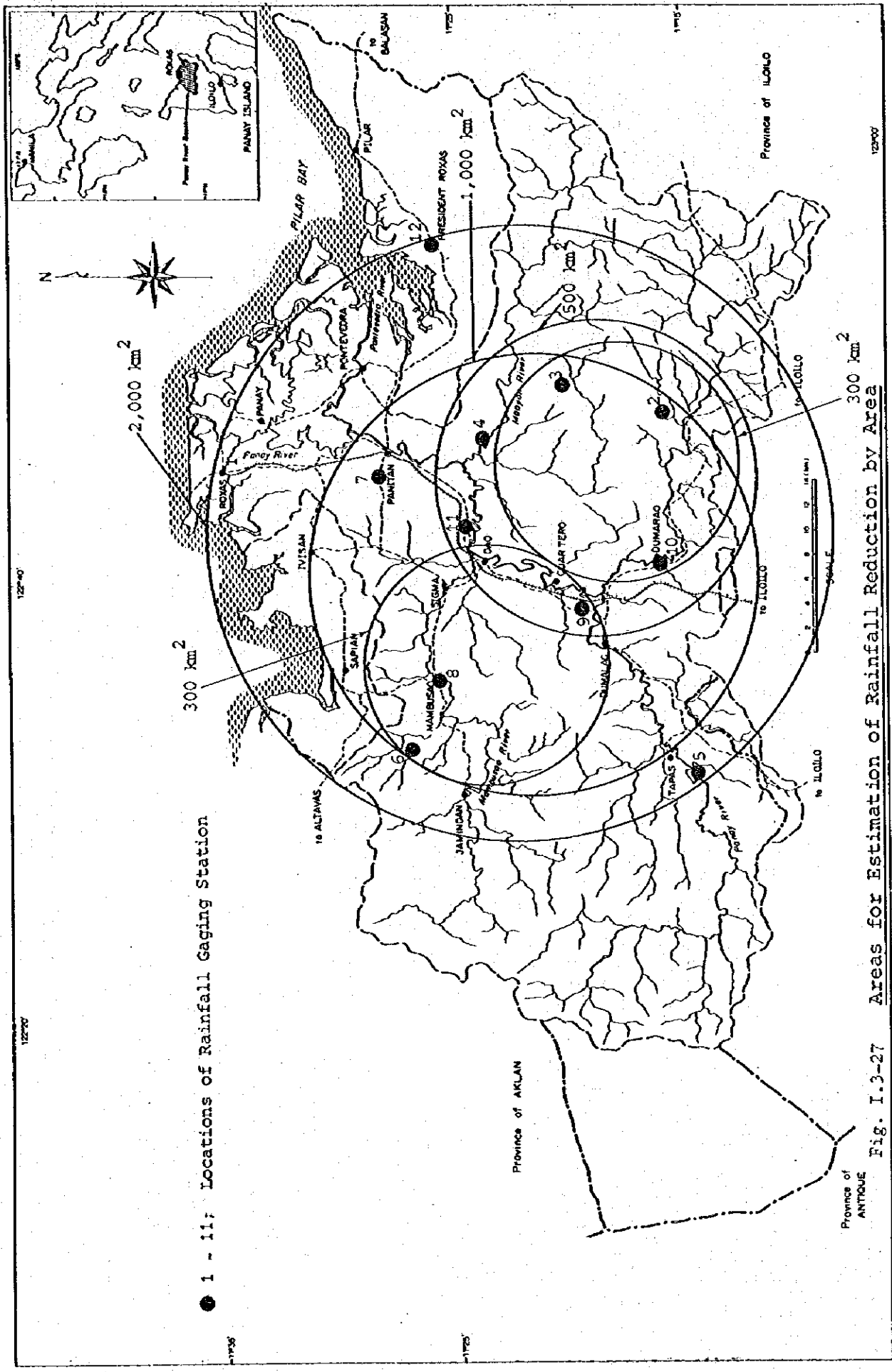


Fig.I.3-26 Frequency Curve of Annual Maximum 3-Day Rainfall



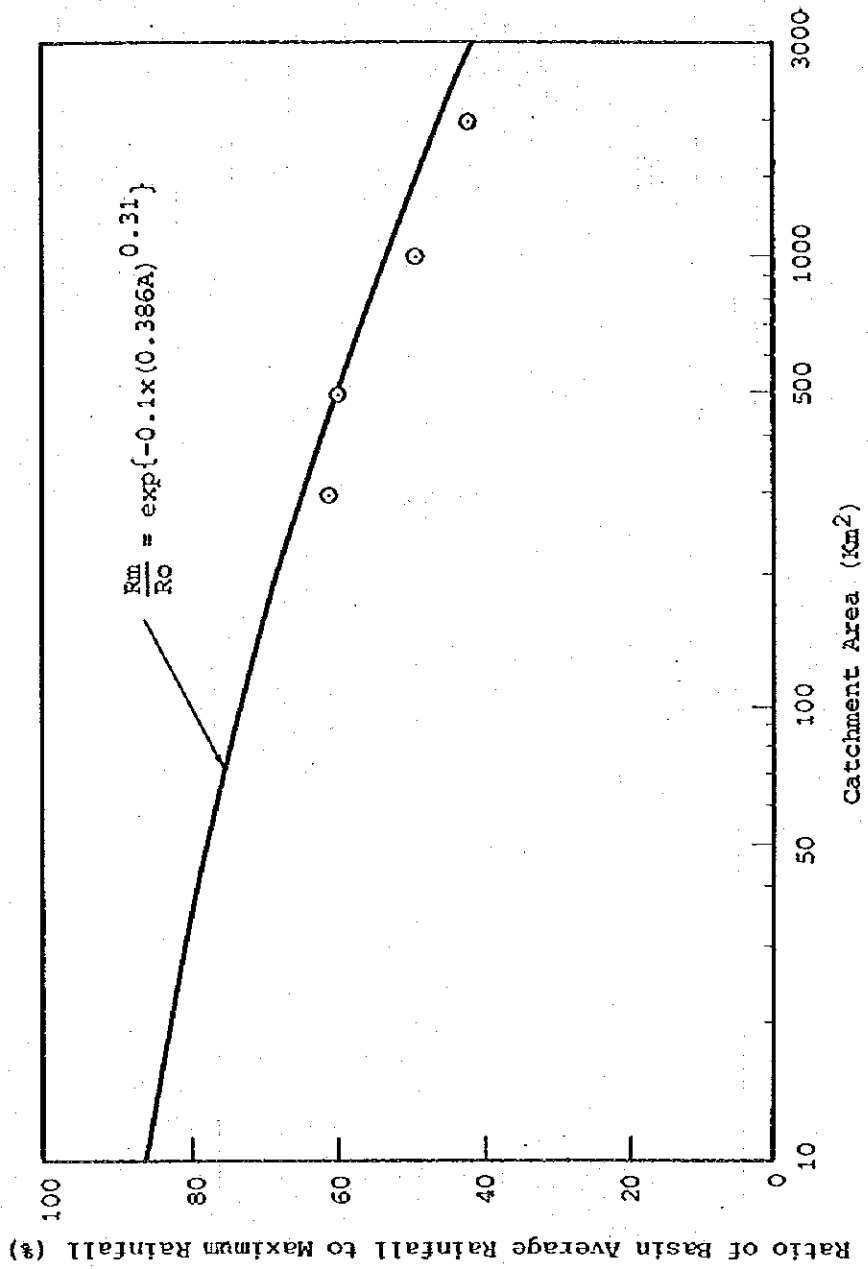
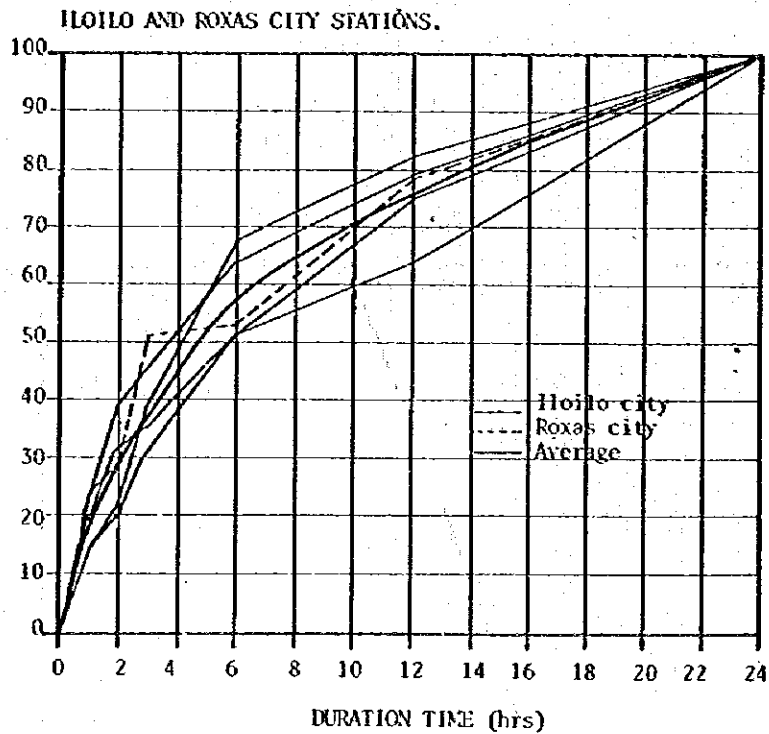


Fig. I.3-28 Depth Area Relation of Basin Rainfall



AVERAGE

DURATION TIME (hrs)	Rt/Rd (%)	DURATION TIME (hrs)	Rt/Rd (%)	DURATION TIME (hrs)	Rt/Rd (%)
1	18.7	9	67.5	17	87.1
2	28.9	10	70.4	18	89.1
3	37.2	11	73.2	19	91.1
4	44.5	12	75.8	20	93.0
5	51.2	13	78.2	21	94.8
6	57.4	14	80.6	22	96.6
7	61.1	15	82.9	23	98.3
8	64.4	16	85.0	24	100.0

Note:

1. Hourly rainfall records of which daily rainfall was larger than 150 mm. during the years from 1950 to 1977 are used.
2. Rt, Rd: Rainfall at duration (t) and daily rainfall.

Fig. I.3-29 Rainfall Intensity-Duration Curve

HOURLY RAINFALL (%)	HOURLY RAINFALL (%)	HOURLY RAINFALL (%)	HOURLY RAINFALL (%)	HOURLY RAINFALL (%)	HOURLY RAINFALL (%)
1	0.25	25	1.33	49	0.65
2	0.25	26	1.41	50	0.65
3	0.25	27	1.56	51	0.65
4	0.25	28	1.64	52	0.65
5	0.25	29	1.72	53	0.65
6	0.25	30	1.88	54	0.65
7	0.25	31	2.19	55	0.65
8	0.25	32	2.42	56	0.65
9	0.25	33	2.69	57	0.65
10	0.25	34	5.24	58	0.65
11	0.25	35	6.49	59	0.65
12	0.25	36	14.63	60	0.65
13	0.65	37	7.98	61	0.25
14	0.65	38	5.71	62	0.25
15	0.65	39	4.85	63	0.25
16	0.65	40	2.56	64	0.25
17	0.65	41	2.27	65	0.25
18	0.65	42	2.03	66	0.25
19	0.65	43	1.88	67	0.25
20	0.65	44	1.72	68	0.25
21	0.65	45	1.56	69	0.25
22	0.65	46	1.49	70	0.25
23	0.65	47	1.41	71	0.25
24	0.65	48	1.33	72	0.25

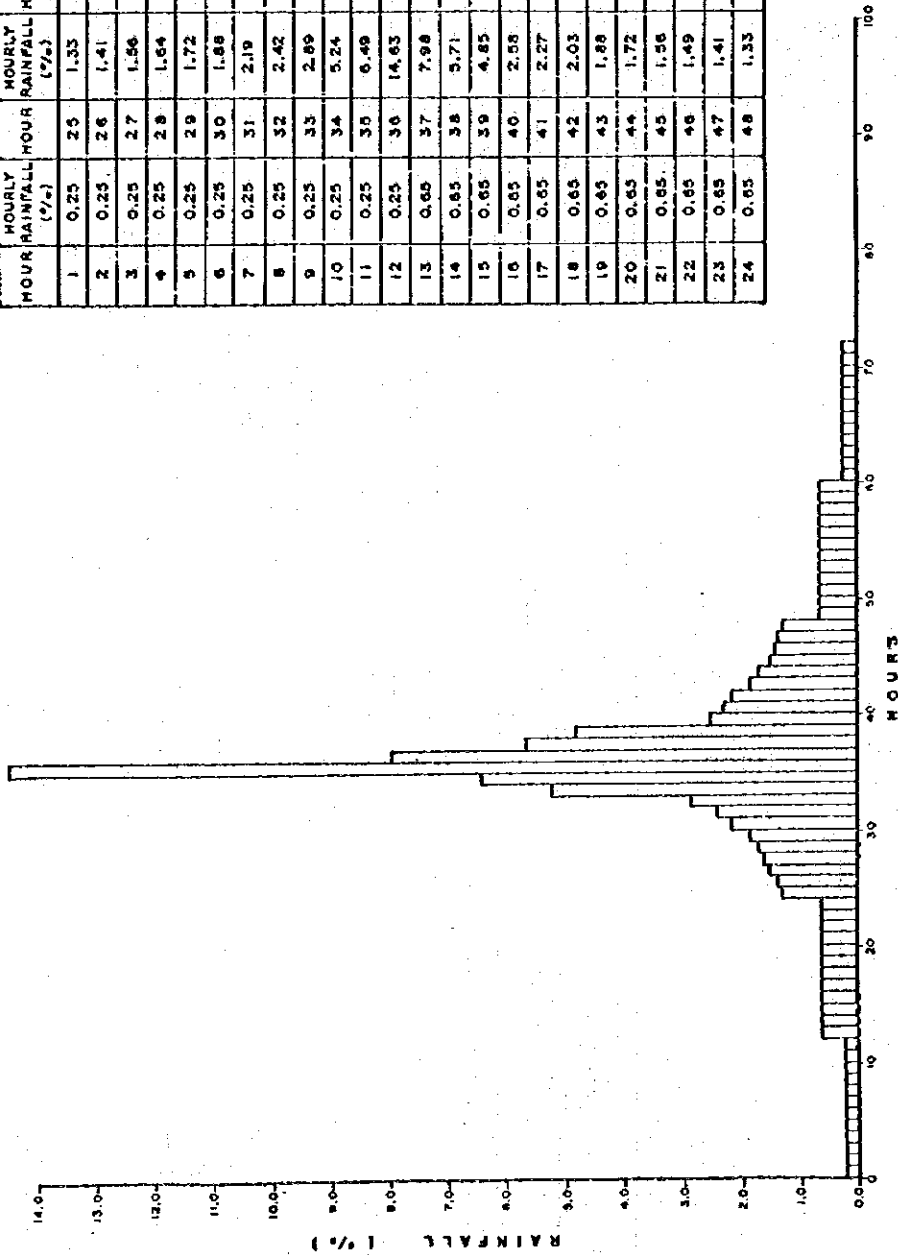


Fig. I.3-30 Hourly Rainfall Distribution

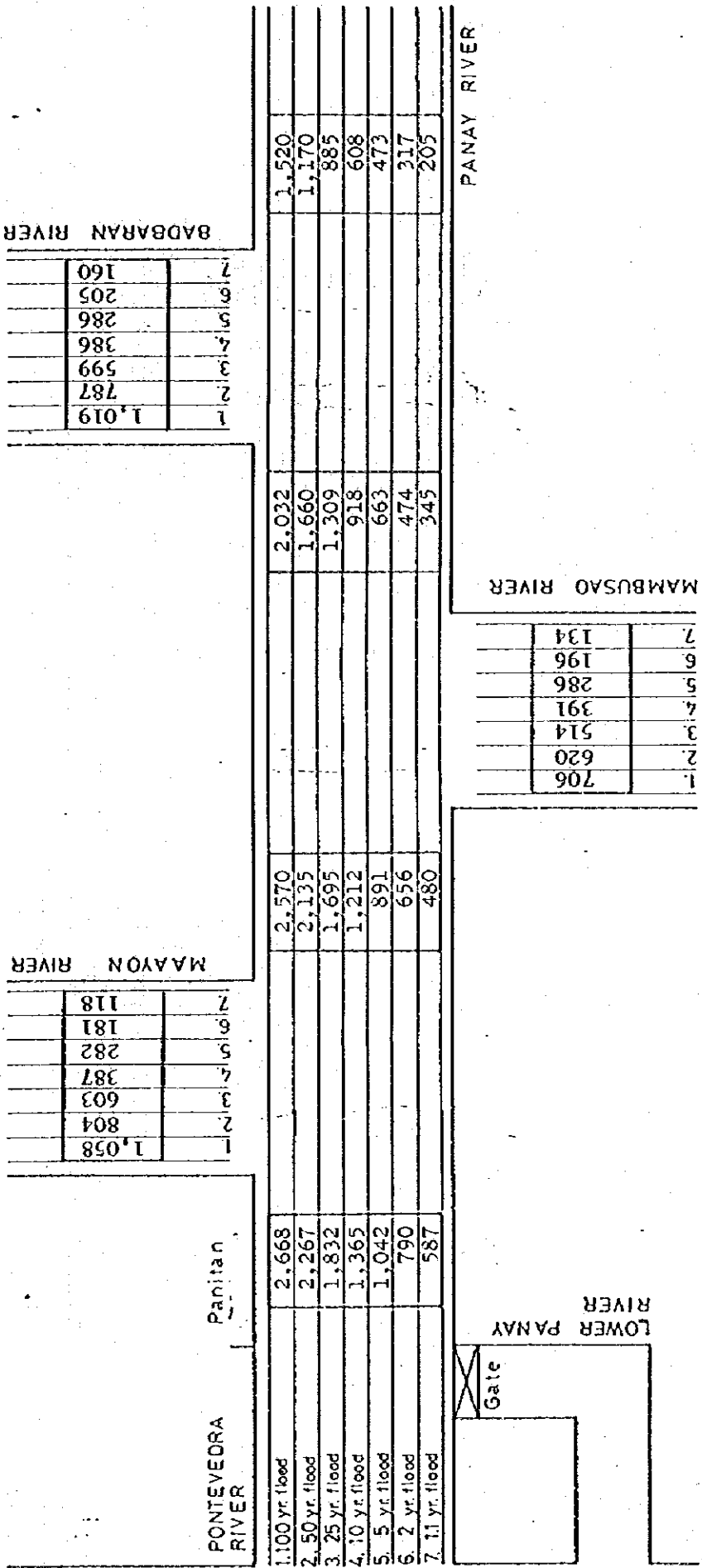


Fig. I.3-31 Flood Flow Distribution for Present River Condition
(Probability of Basin Rainfall at Panitan)

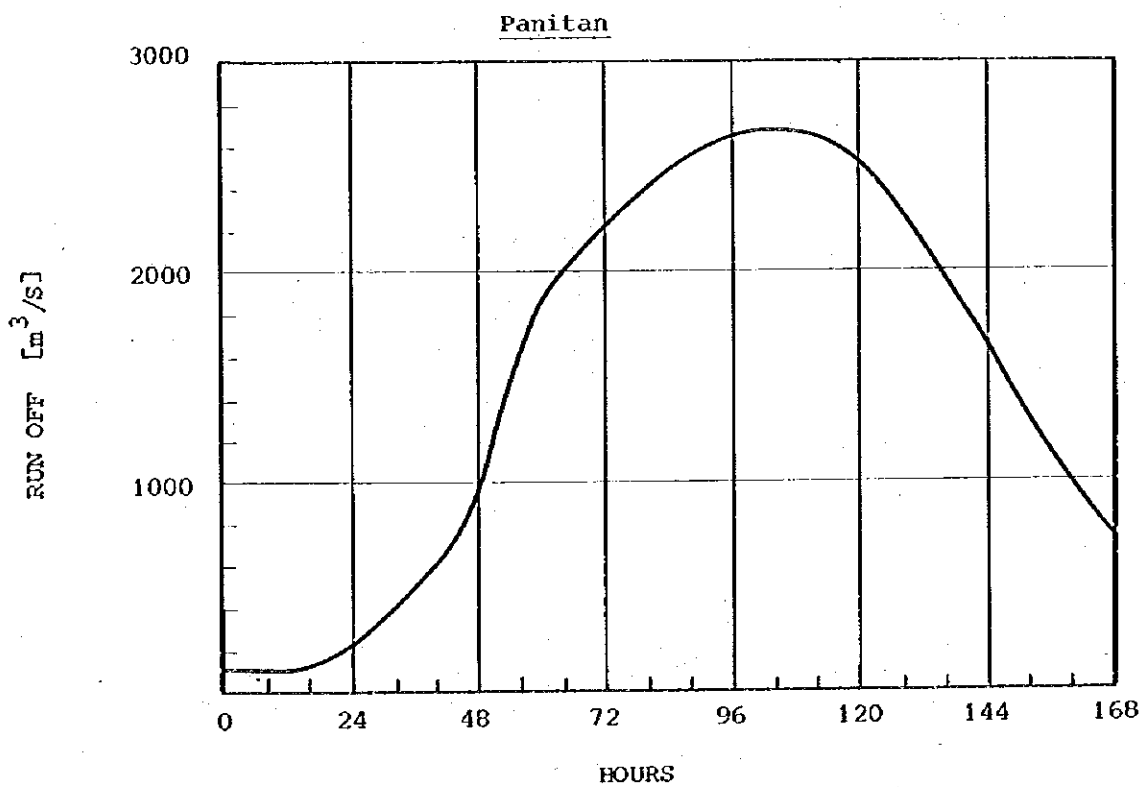
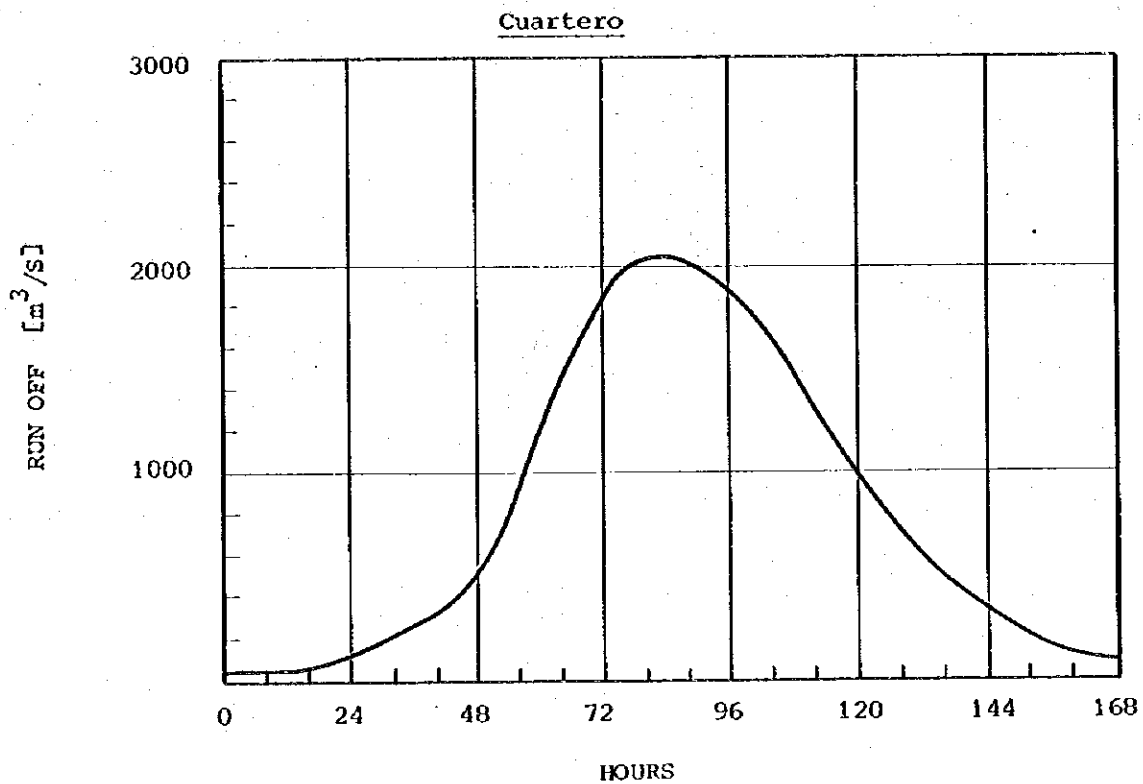


Fig. I.3-32 Hydrograph of 100 year Flood Under Present River Condition

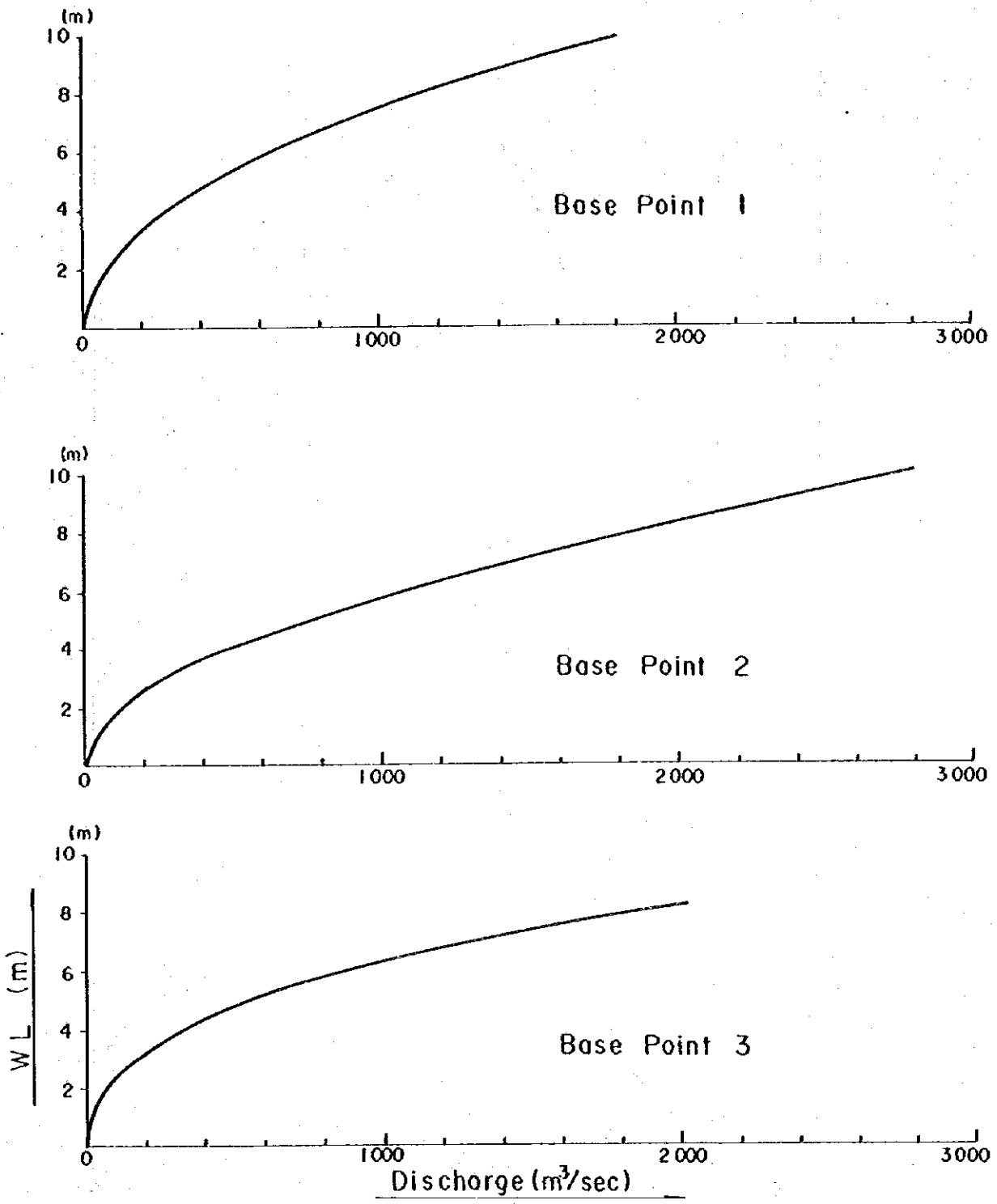


Fig I. 3-33

Rating Curve at Base Point Under Present River Condition (I)

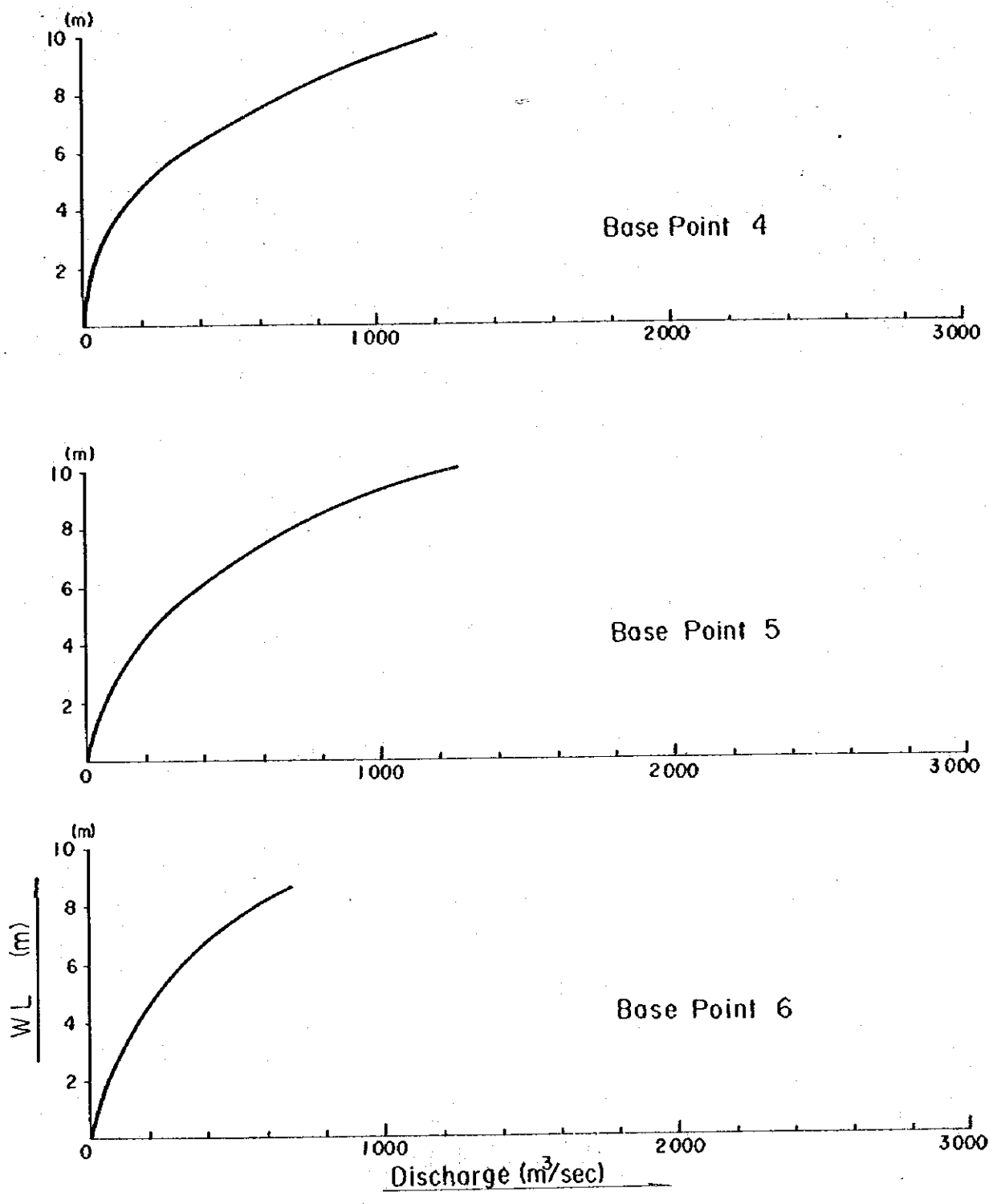


Fig 1. 3-33
 Rating Curve at Base Point Under Present
 River Condition (2)

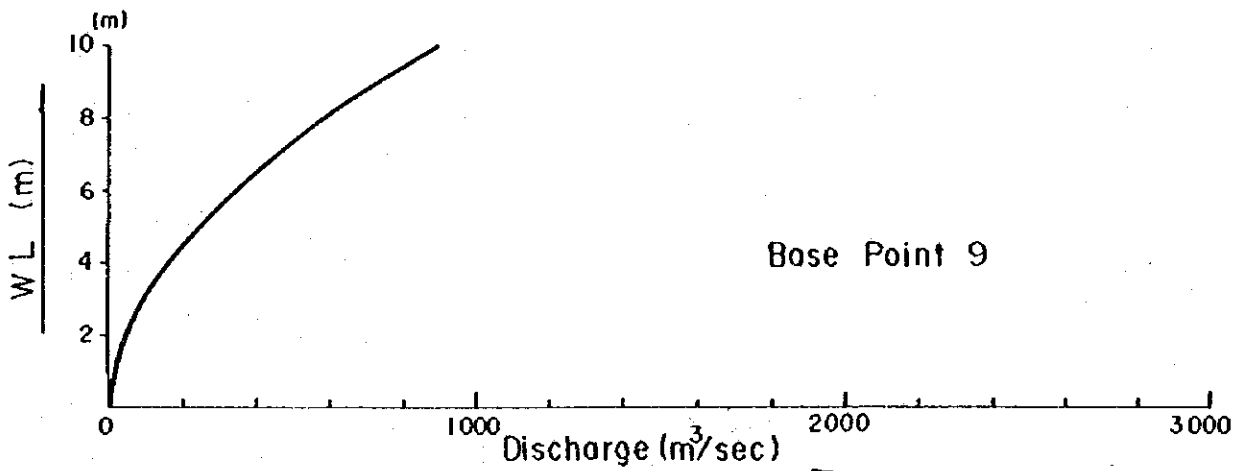
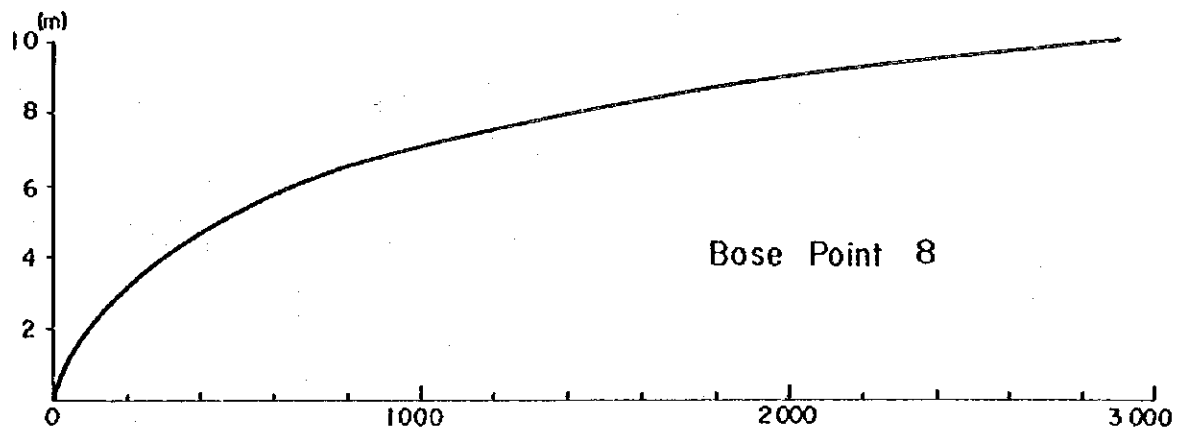
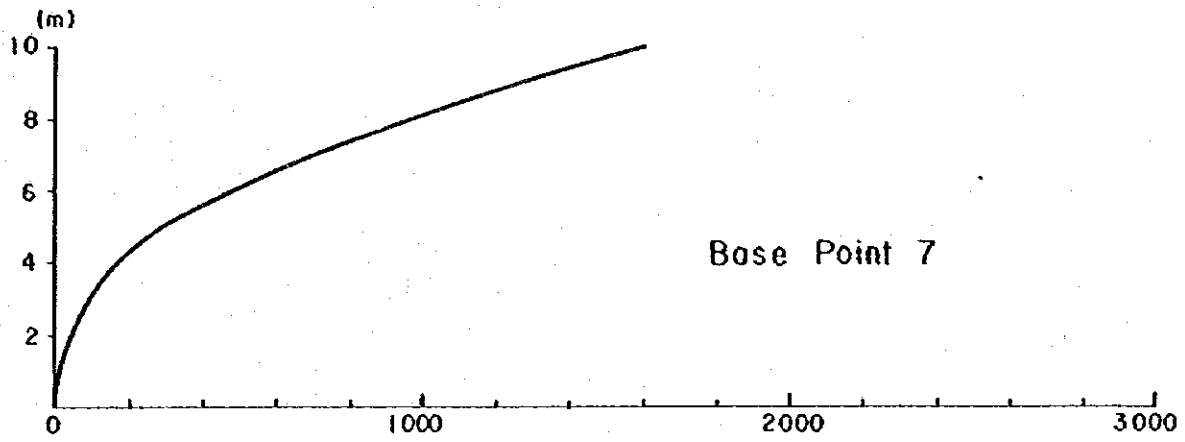


Fig I. 3-33

Rating Curve at Base Point Under Present River Condition (3)

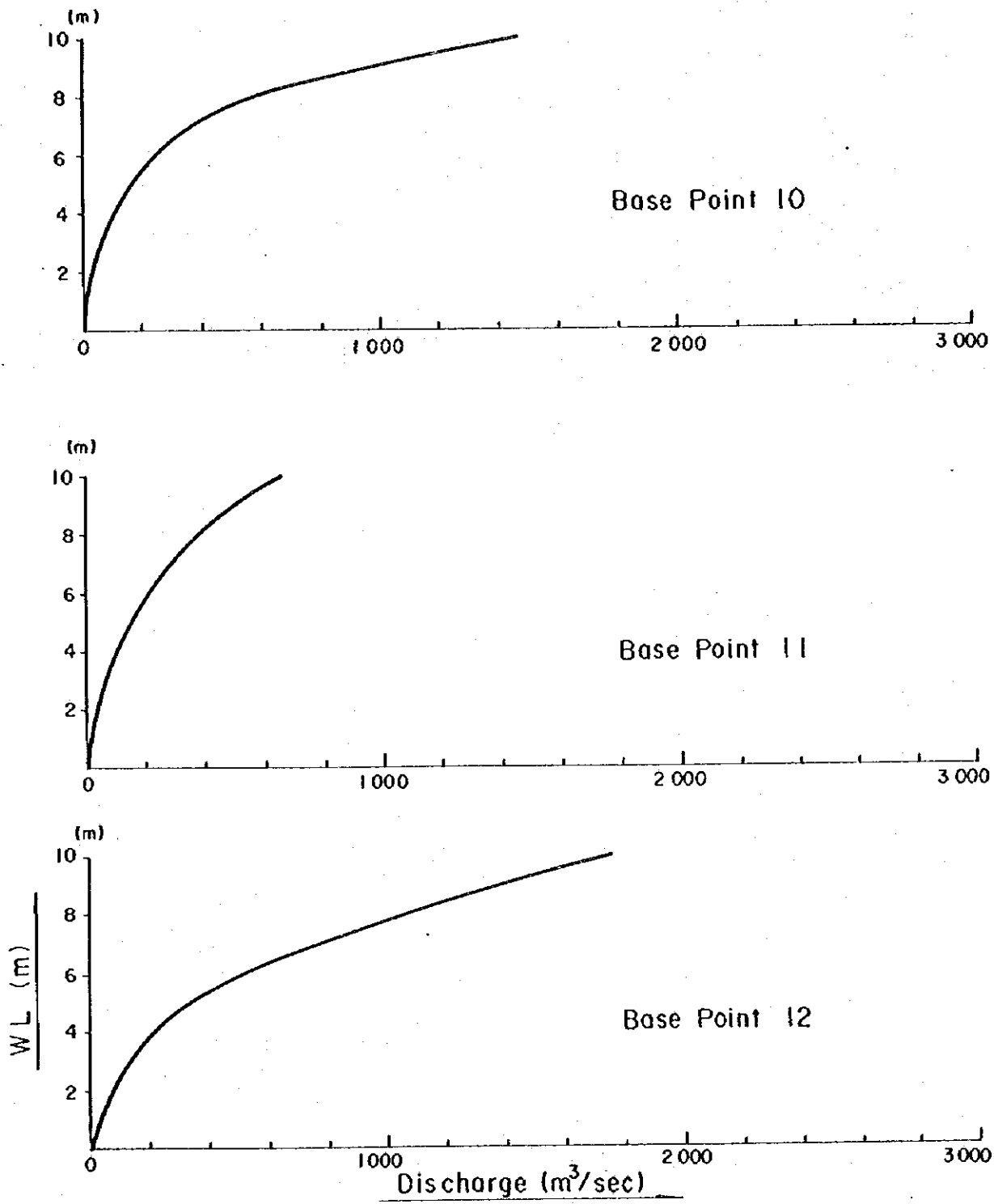


Fig I. 3-33
 Rating Curve of Base Point Under Present
 River Condition (4)

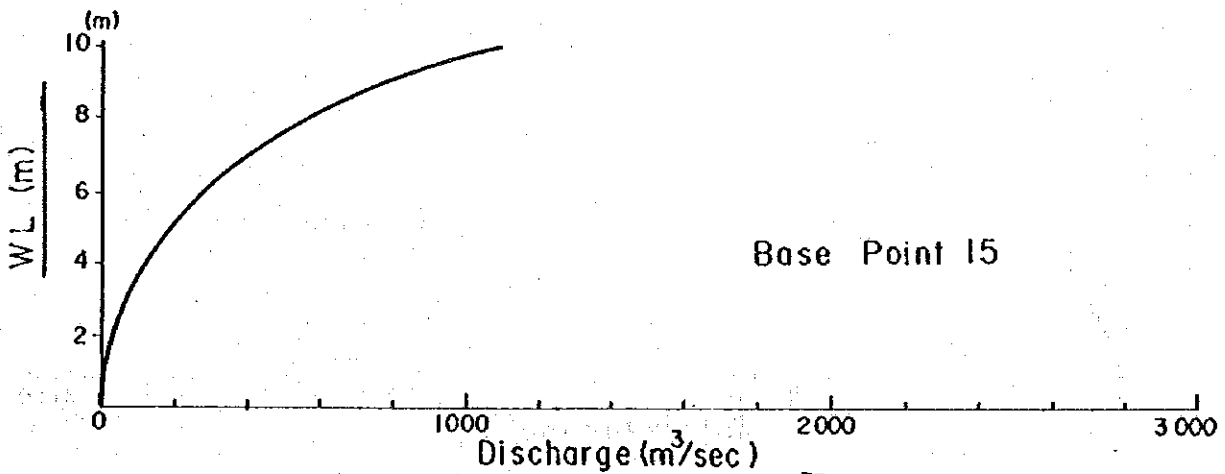
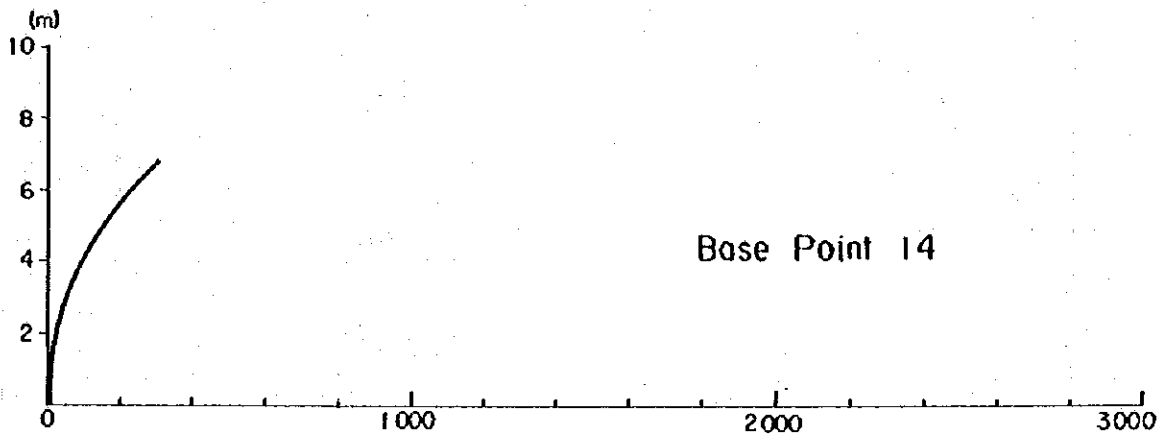
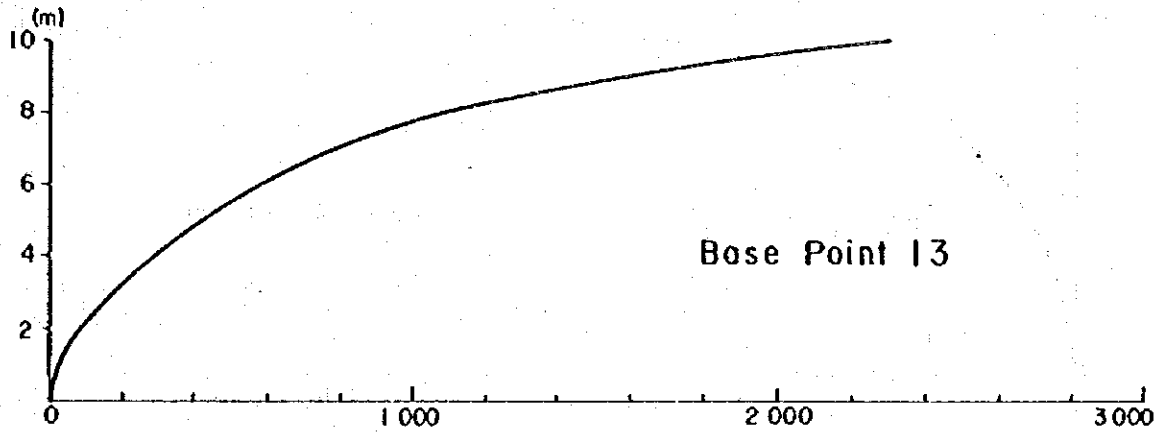


Fig I. 3-33
 Rating Curve at Base Point Under Present
 River Condition (5)

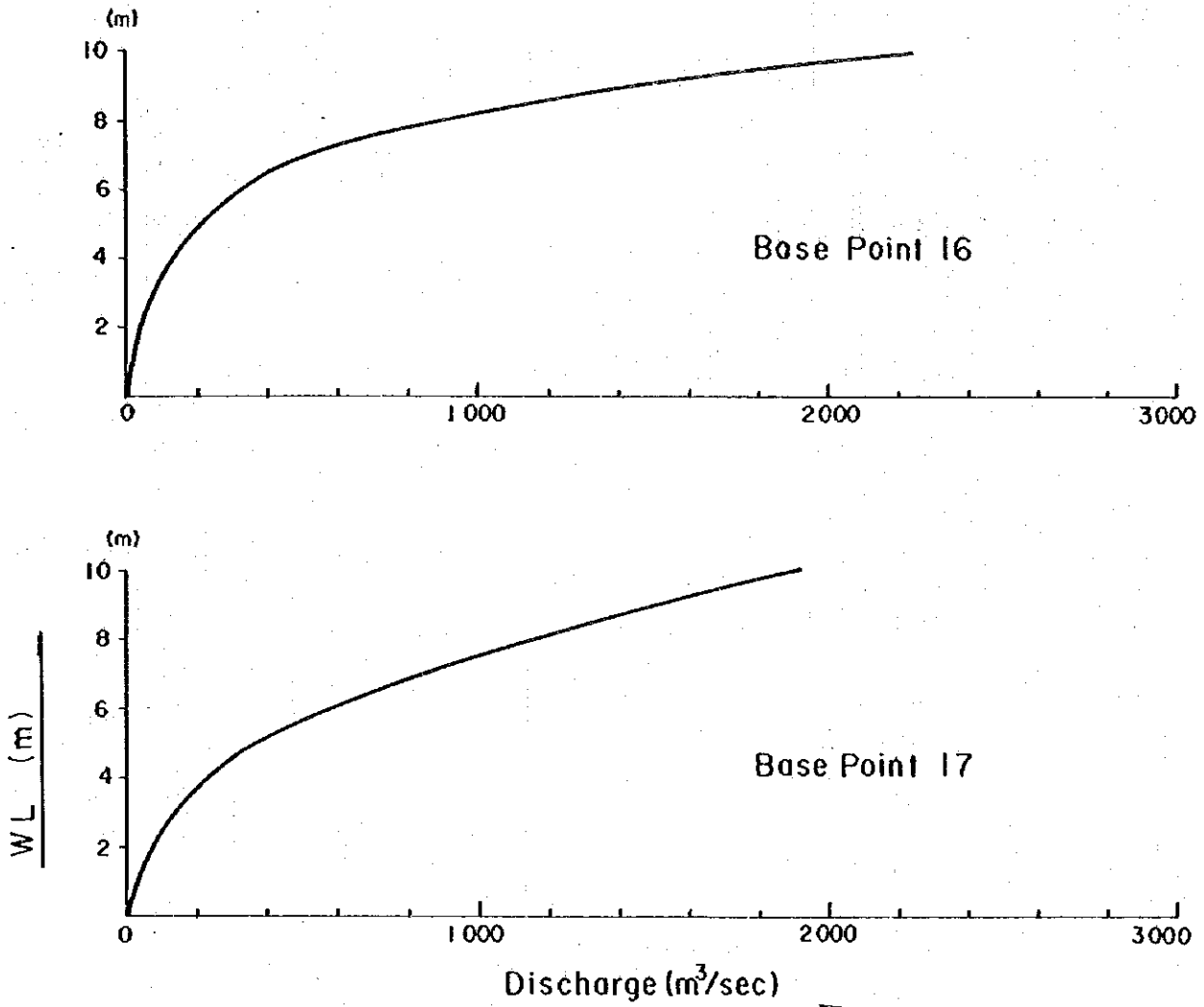


Fig 1.3-33
 Rating Curve at Base Point Under Present
 River Condition (6)

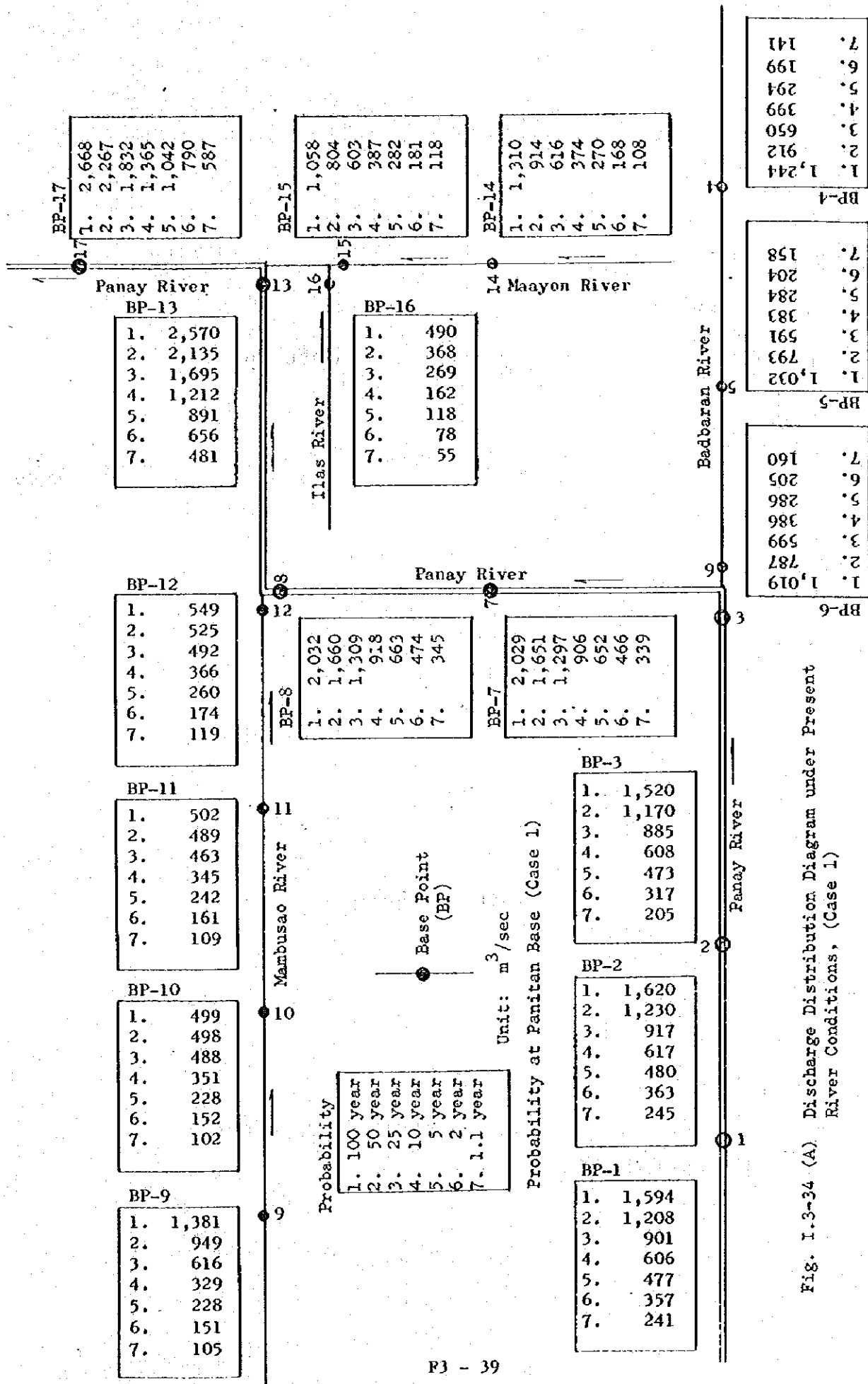


Fig. I.3-34 (A) Discharge Distribution Diagram under Present River Conditions, (Case 1)

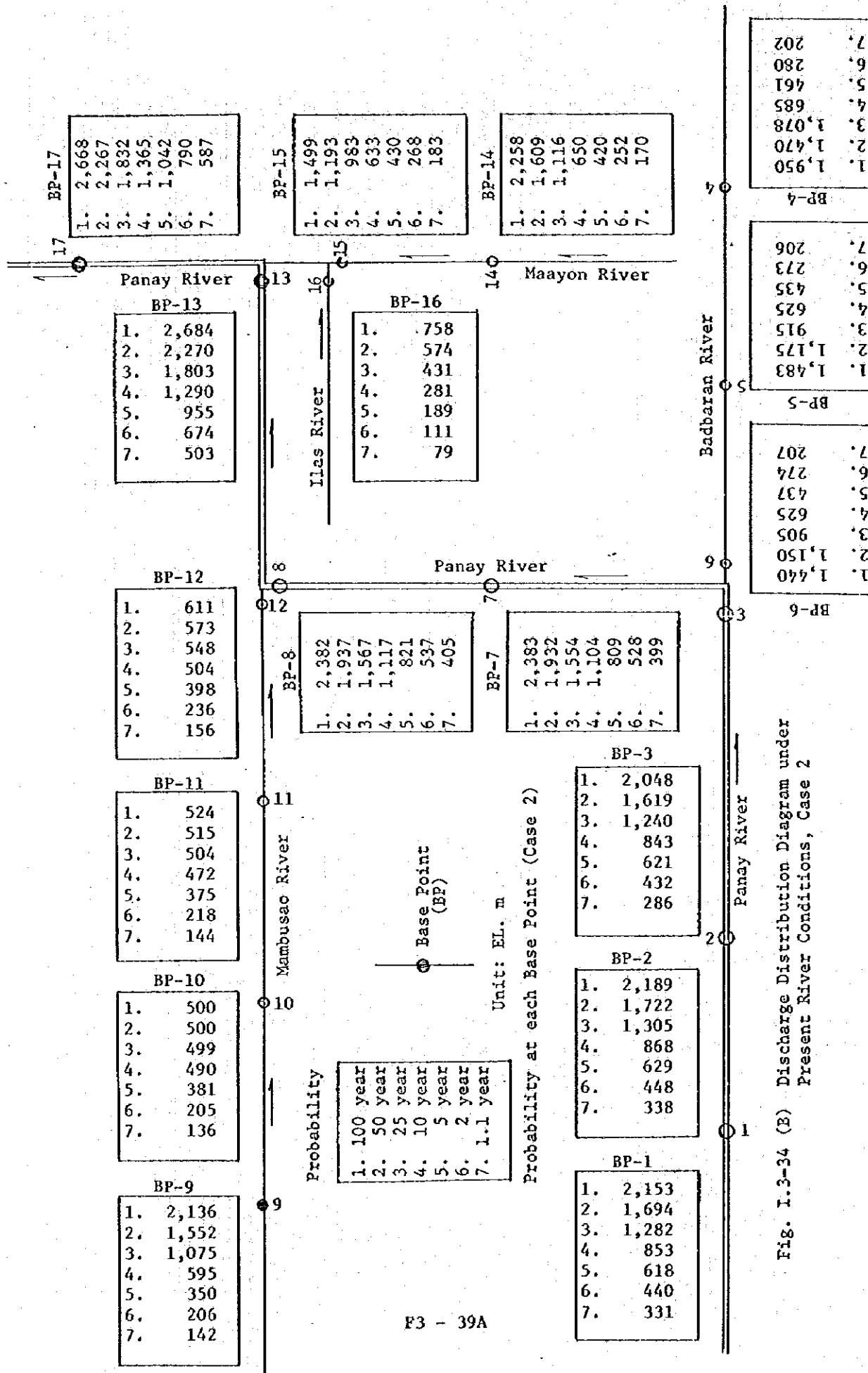


Fig. I.3-34 (B) Discharge Distribution Diagram under Present River Conditions, Case 2

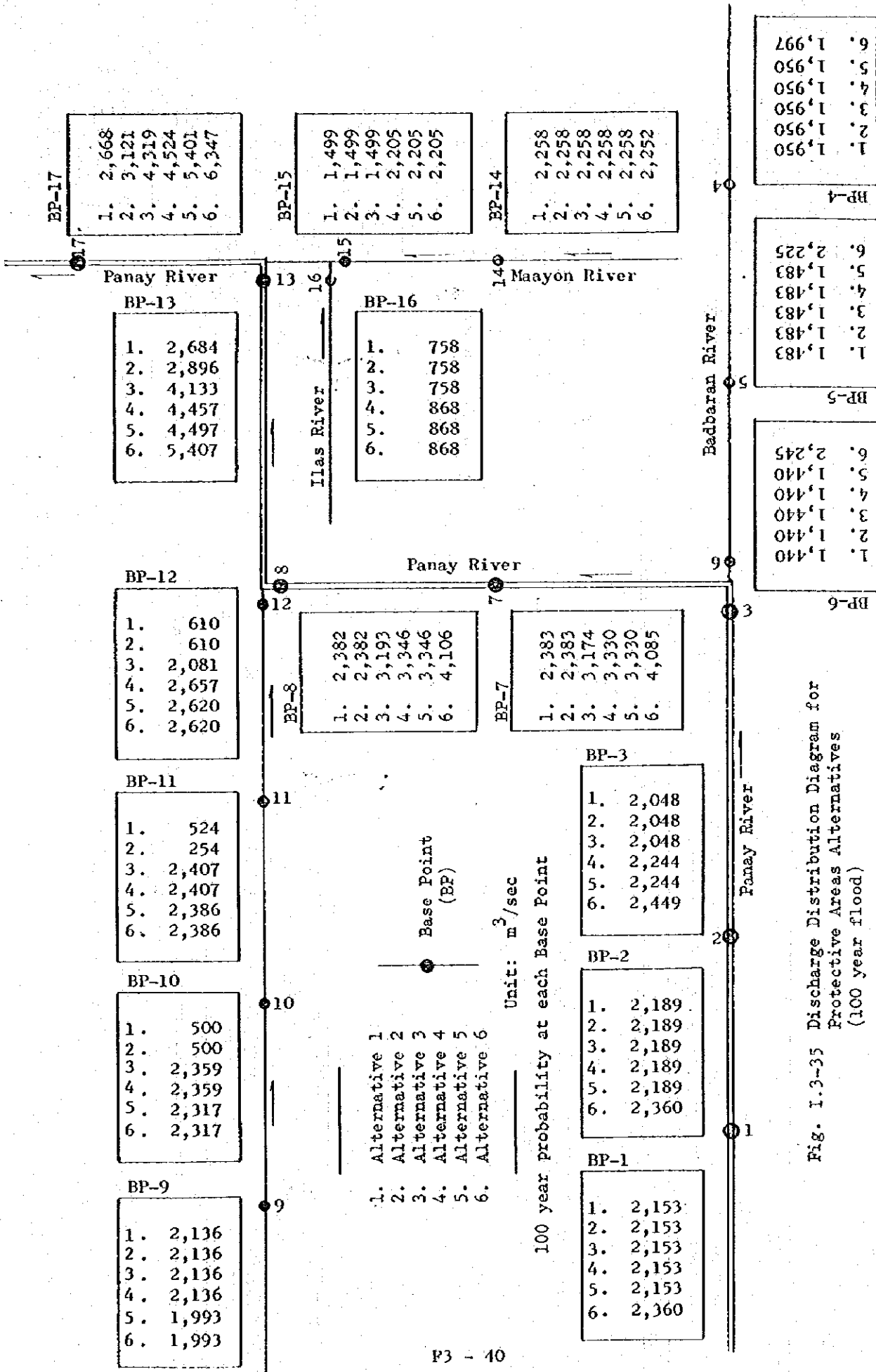


Fig. I.3-35 Discharge Distribution Diagram for Protective Areas Alternatives (100 year flood)

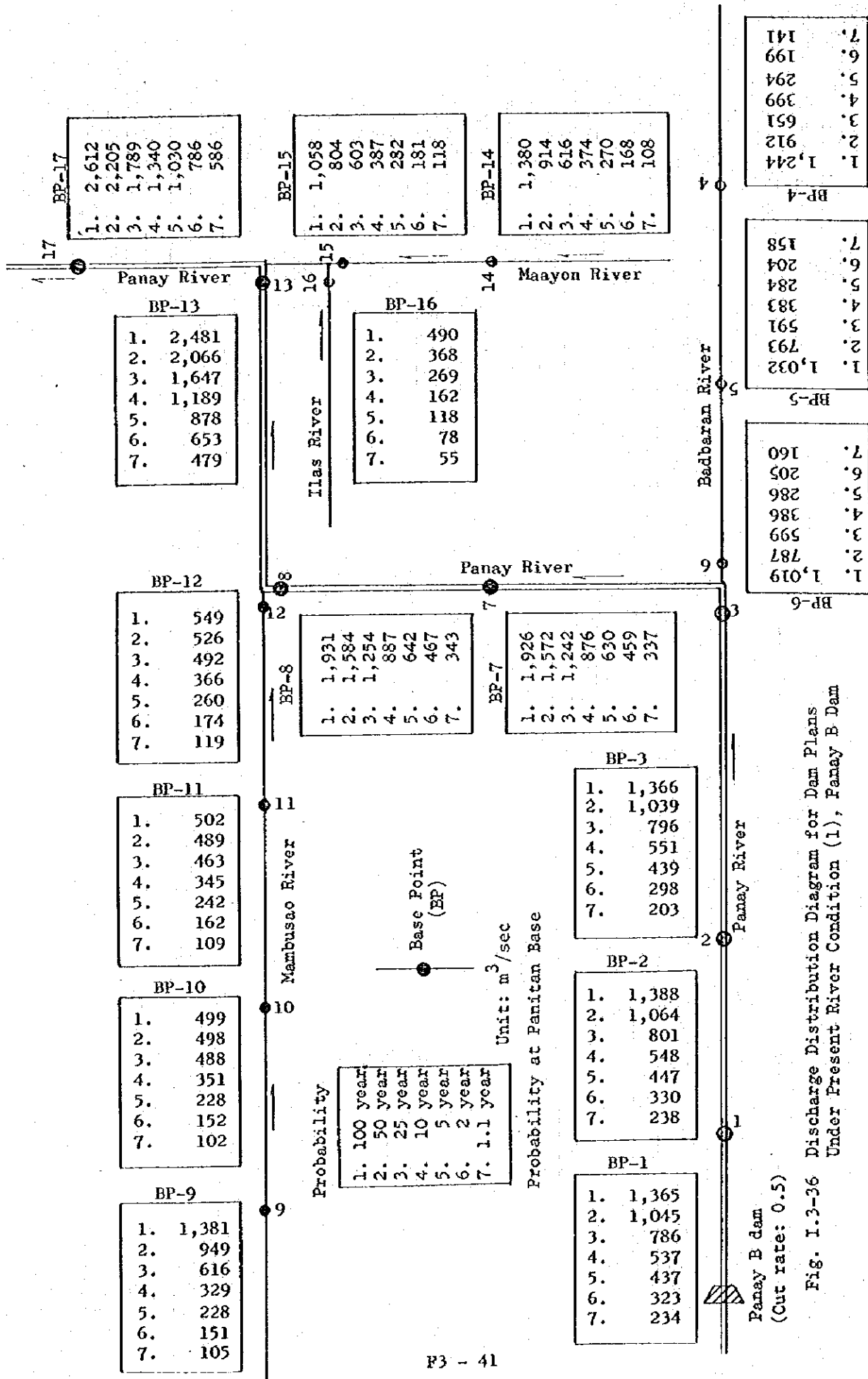


Fig. 1.3-36 Discharge Distribution Diagram for Dam Plans Under Present River Condition (1), Panay B Dam

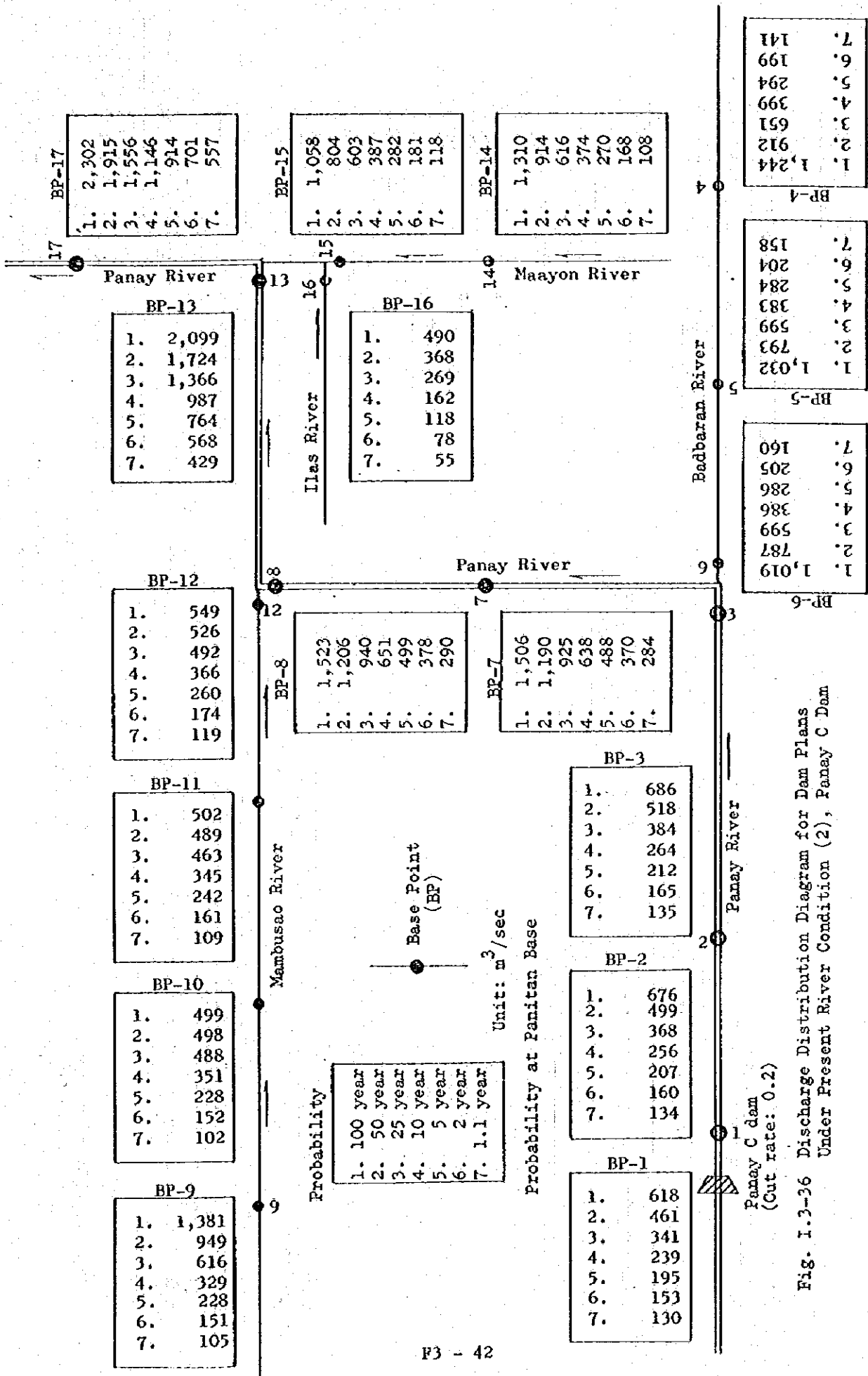


Fig. 1.3-36 Discharge Distribution Diagram for Dam Plans Under Present River Condition (2), Panay C Dam

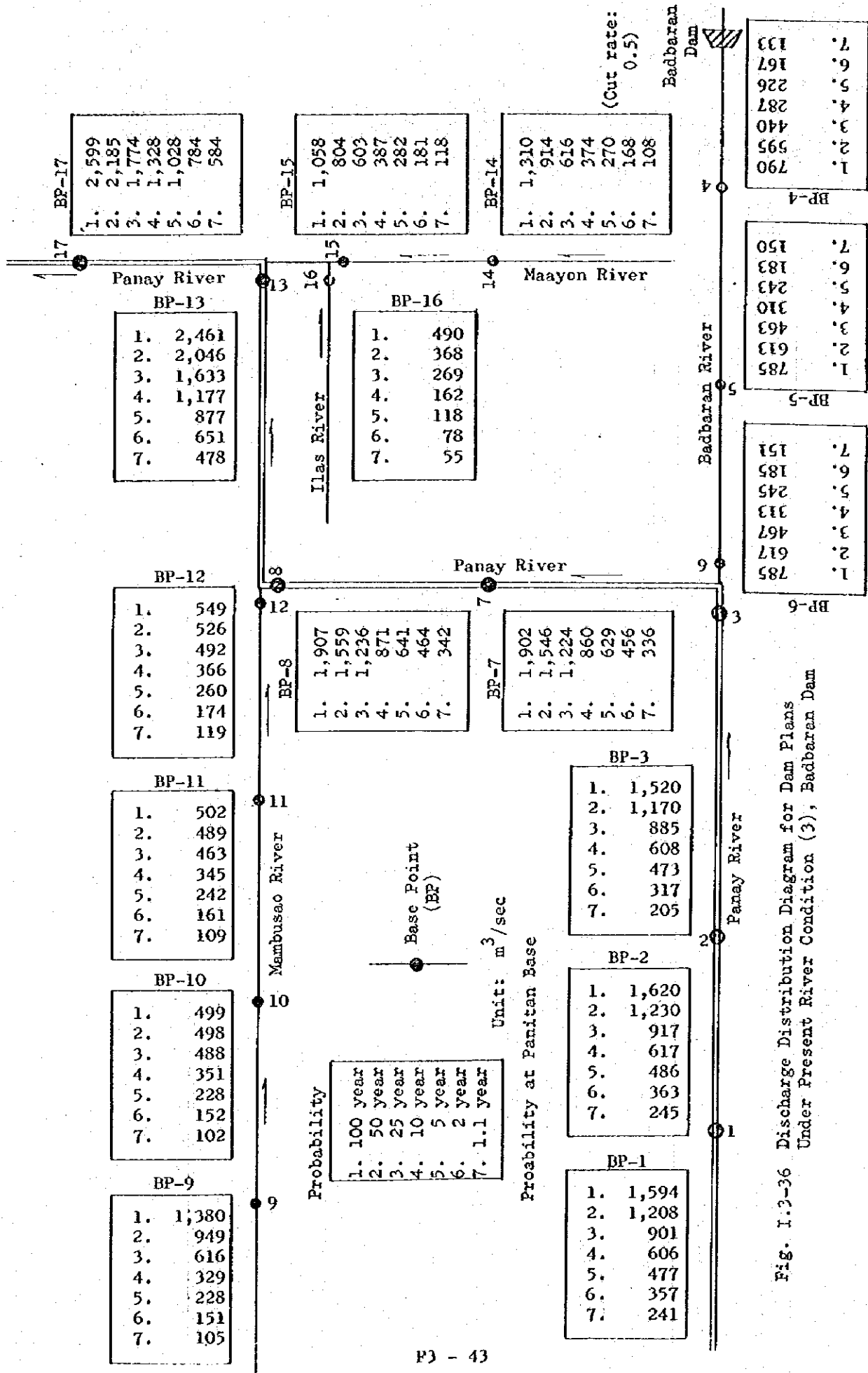


Fig. I.2-36 Discharge Distribution Diagram for Dam Plans Under Present River Condition (3), Badbaran Dam

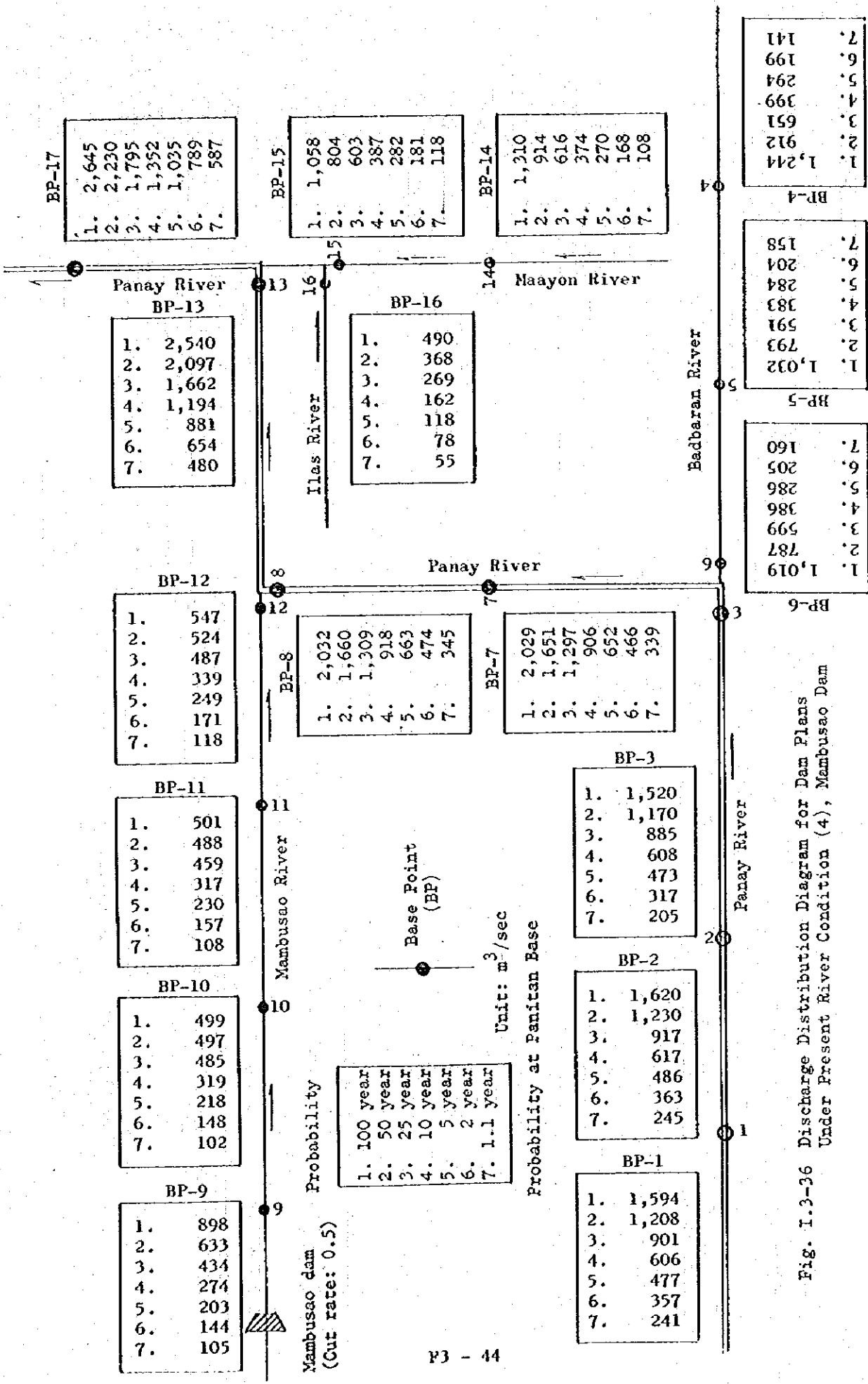


Fig. I.3-36 Discharge Distribution Diagram for Dam Plans Under Present River Condition (4), Mambusao Dam

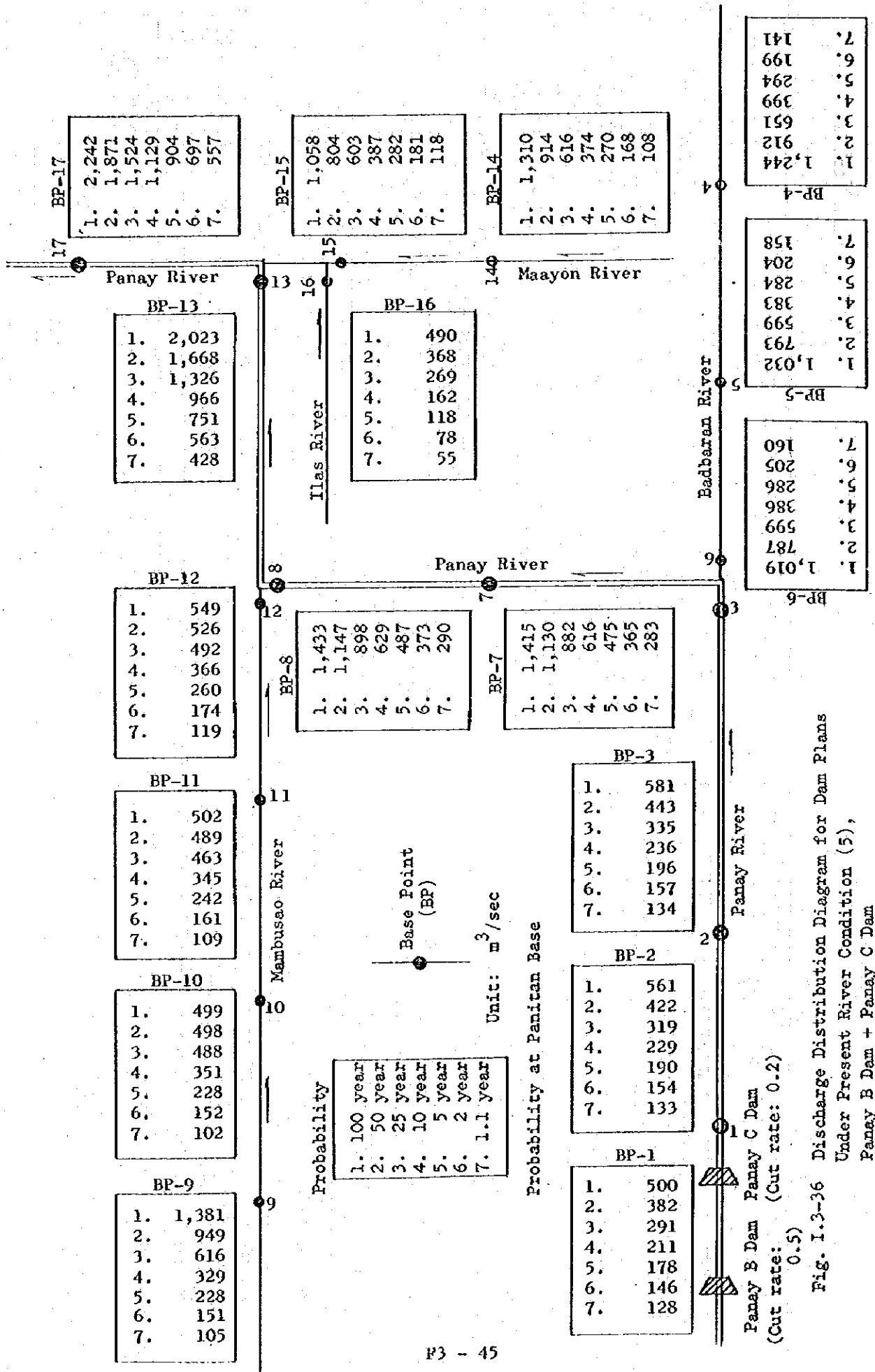
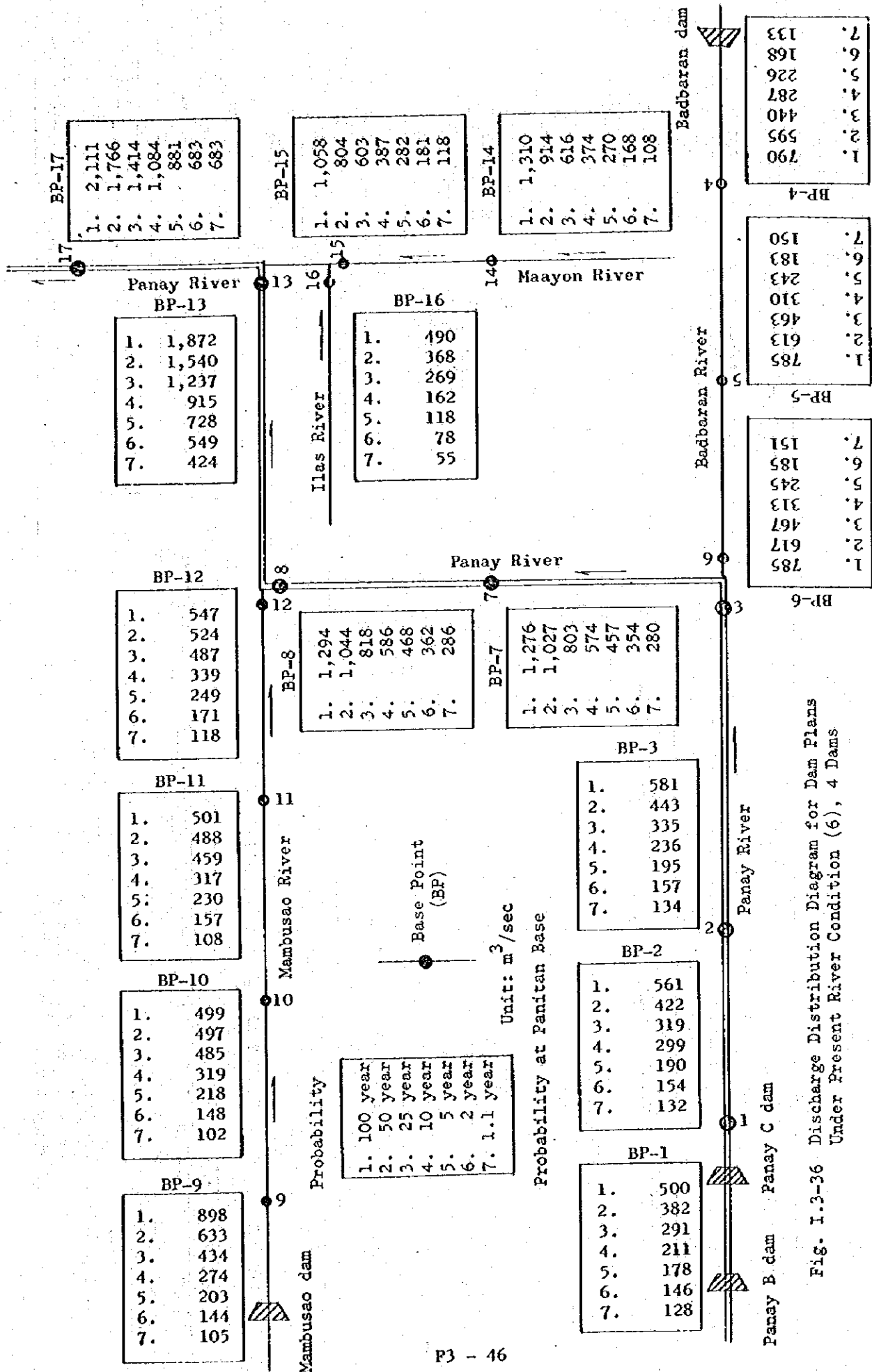


Fig. I.3-36 Discharge Distribution Diagram for Dam Plans Under Present River Condition (5), Panay B Dam + Panay C Dam



BP-17

1.	2,111
2.	1,766
3.	1,414
4.	1,084
5.	881
6.	683
7.	683

BP-13

1.	1,872
2.	1,540
3.	1,237
4.	915
5.	728
6.	549
7.	424

BP-12

1.	547
2.	524
3.	487
4.	339
5.	249
6.	171
7.	118

BP-11

1.	501
2.	488
3.	459
4.	317
5.	230
6.	157
7.	108

BP-10

1.	499
2.	497
3.	485
4.	319
5.	218
6.	148
7.	102

BP-9

1.	898
2.	633
3.	434
4.	274
5.	203
6.	144
7.	105

BP-15

1.	1,058
2.	804
3.	603
4.	387
5.	282
6.	181
7.	118

BP-16

1.	490
2.	368
3.	269
4.	162
5.	118
9.	78
7.	55

BP-8

1.	1,294
2.	1,044
3.	818
4.	586
5.	468
6.	362
7.	286

BP-10 year

1.	100 year
2.	50 year
3.	25 year
4.	10 year
5.	5 year
6.	2 year
7.	1.1 year

BP-14

1.	1,310
2.	914
3.	616
4.	374
5.	270
6.	168
7.	108

BP-7

1.	1,276
2.	1,027
3.	803
4.	574
5.	457
6.	354
7.	280

BP-3

1.	581
2.	443
3.	335
4.	236
5.	195
6.	157
7.	134

BP-2

1.	561
2.	422
3.	319
4.	299
5.	190
6.	154
7.	132

BP-1

1.	500
2.	382
3.	291
4.	211
5.	178
6.	146
7.	128

BP-4

1.	790
2.	595
3.	440
4.	287
5.	226
6.	168
7.	133

BP-5

1.	785
2.	613
3.	463
4.	310
5.	243
6.	183
7.	150

BP-6

1.	785
2.	617
3.	467
4.	313
5.	245
6.	185
7.	151

Fig. I.3-36 Discharge Distribution Diagram for Dam Plans Under Present River Condition (6), 4 Dams

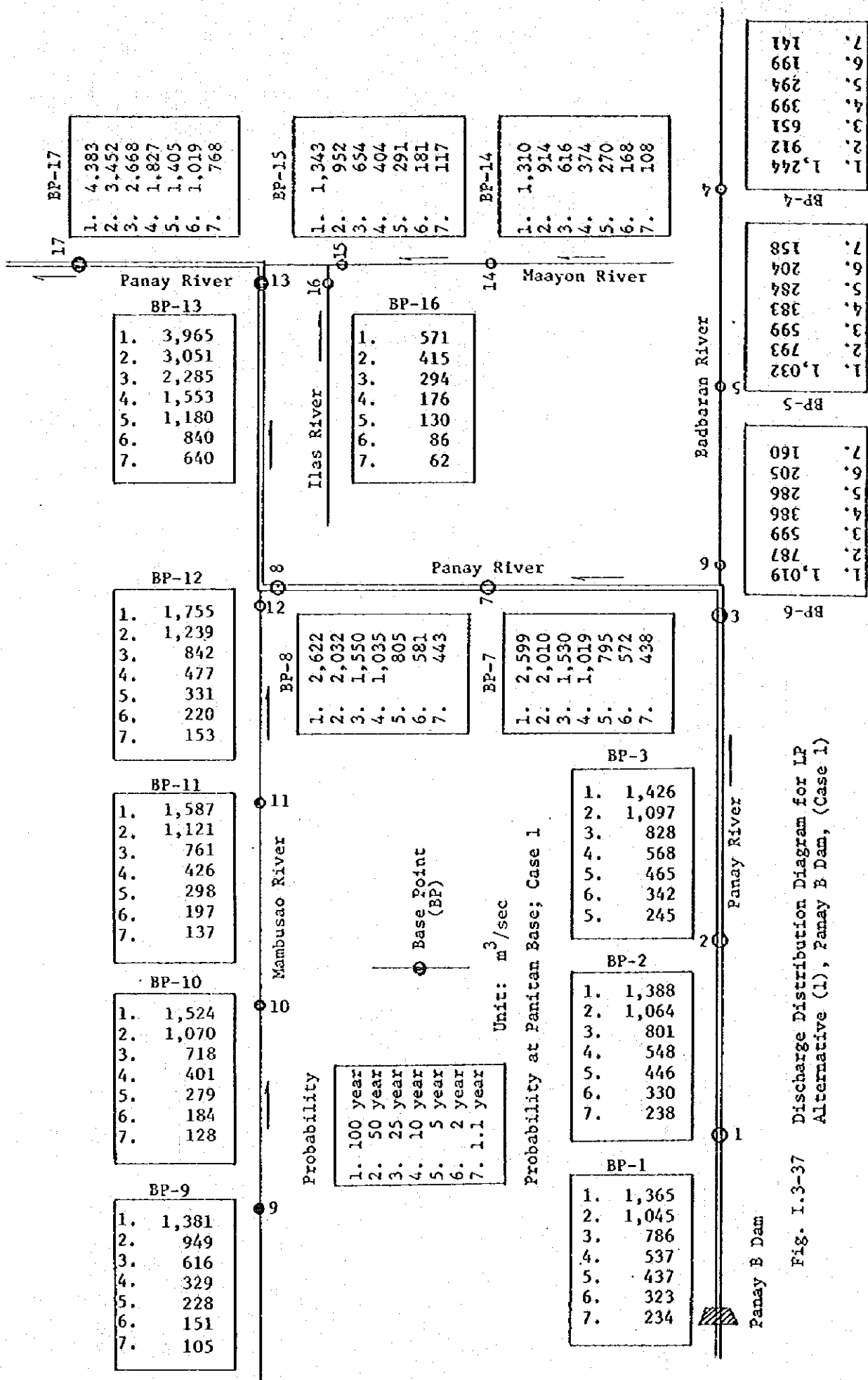


Fig. I.3-37 Discharge Distribution Diagram for LP Alternative (1), Panay B Dam, (Case 1)

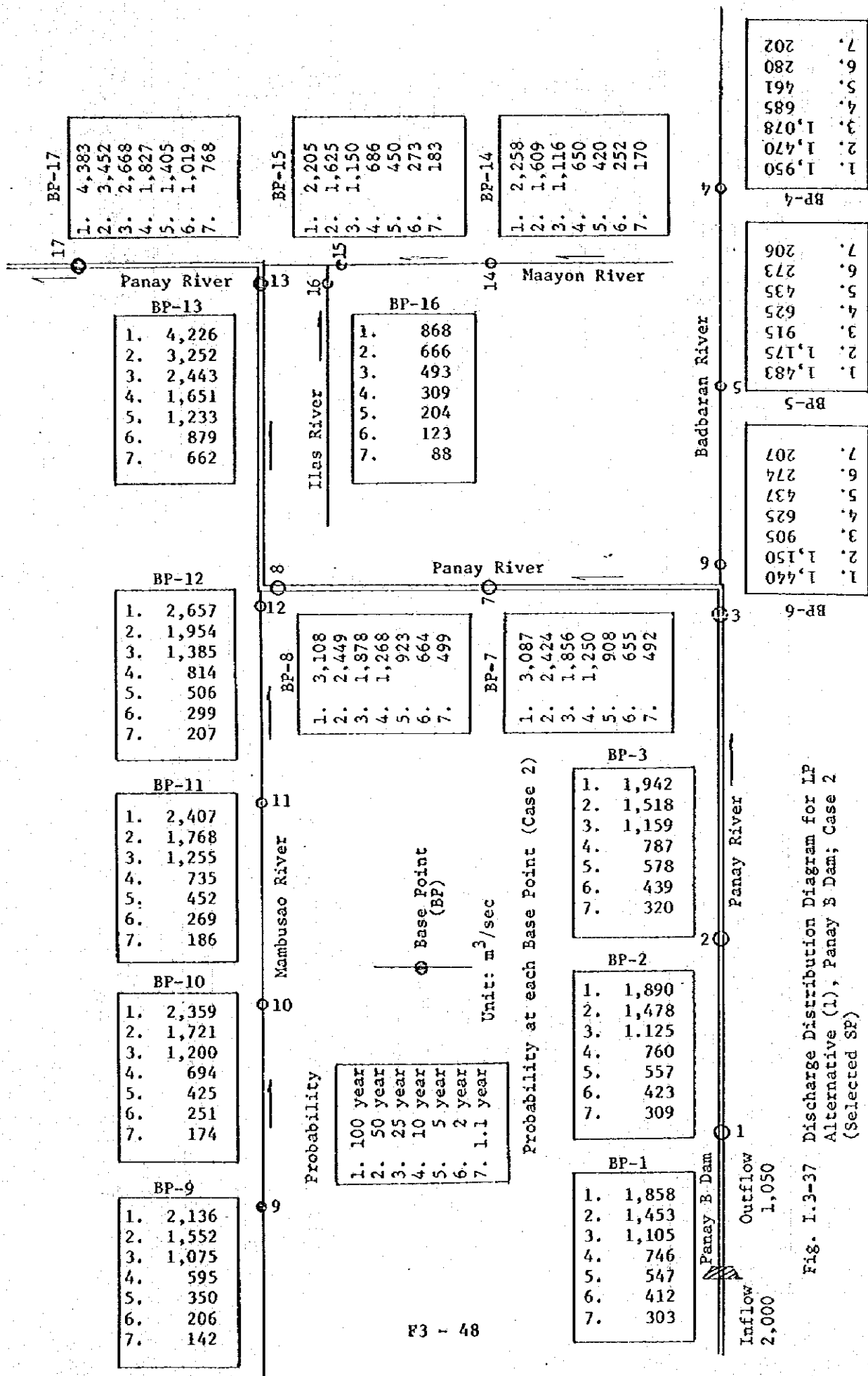


Fig. I.3-37 Discharge Distribution Diagram for LP Alternative (1), Panay B Dam; Case 2 (Selected SP)

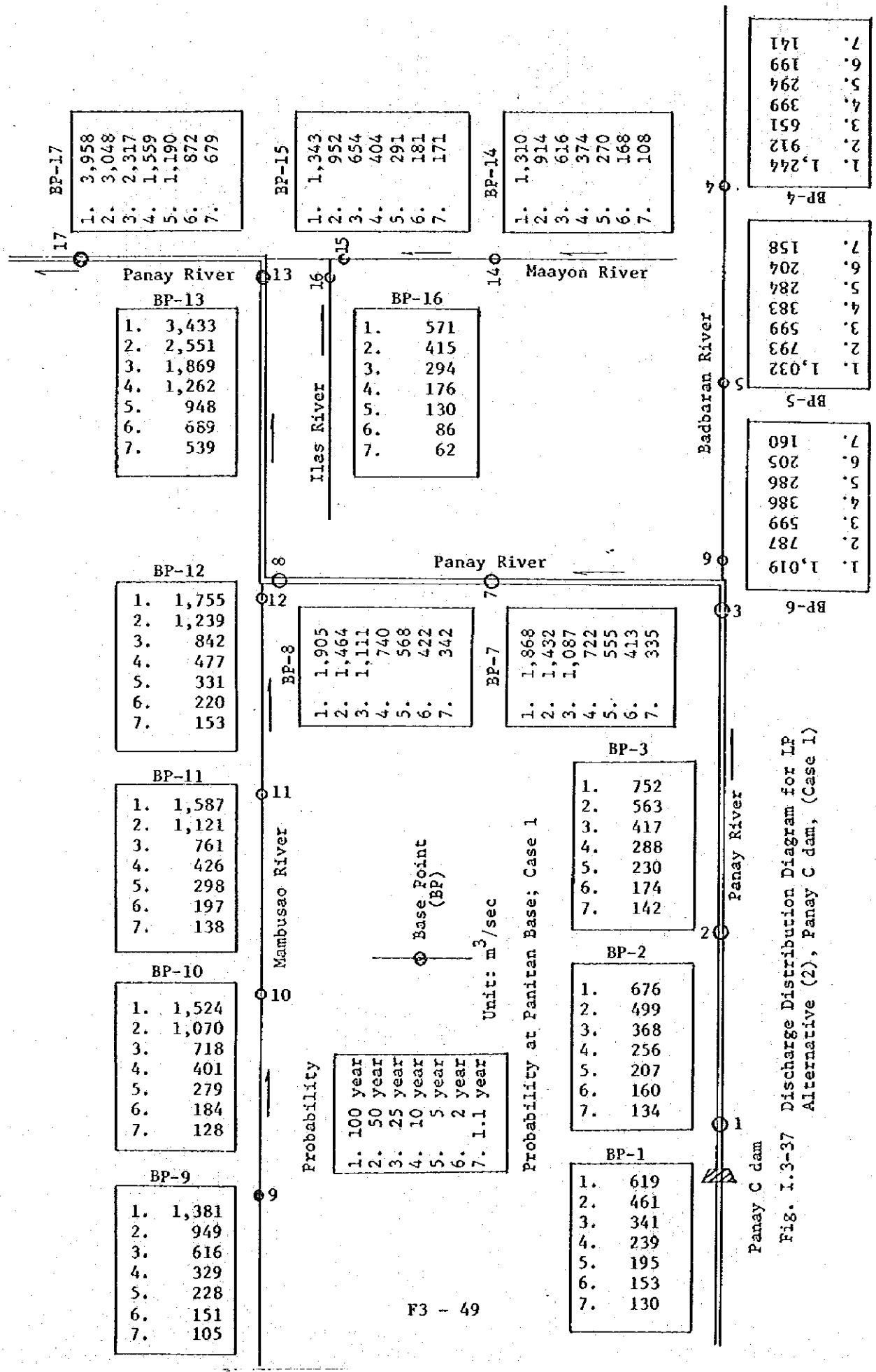
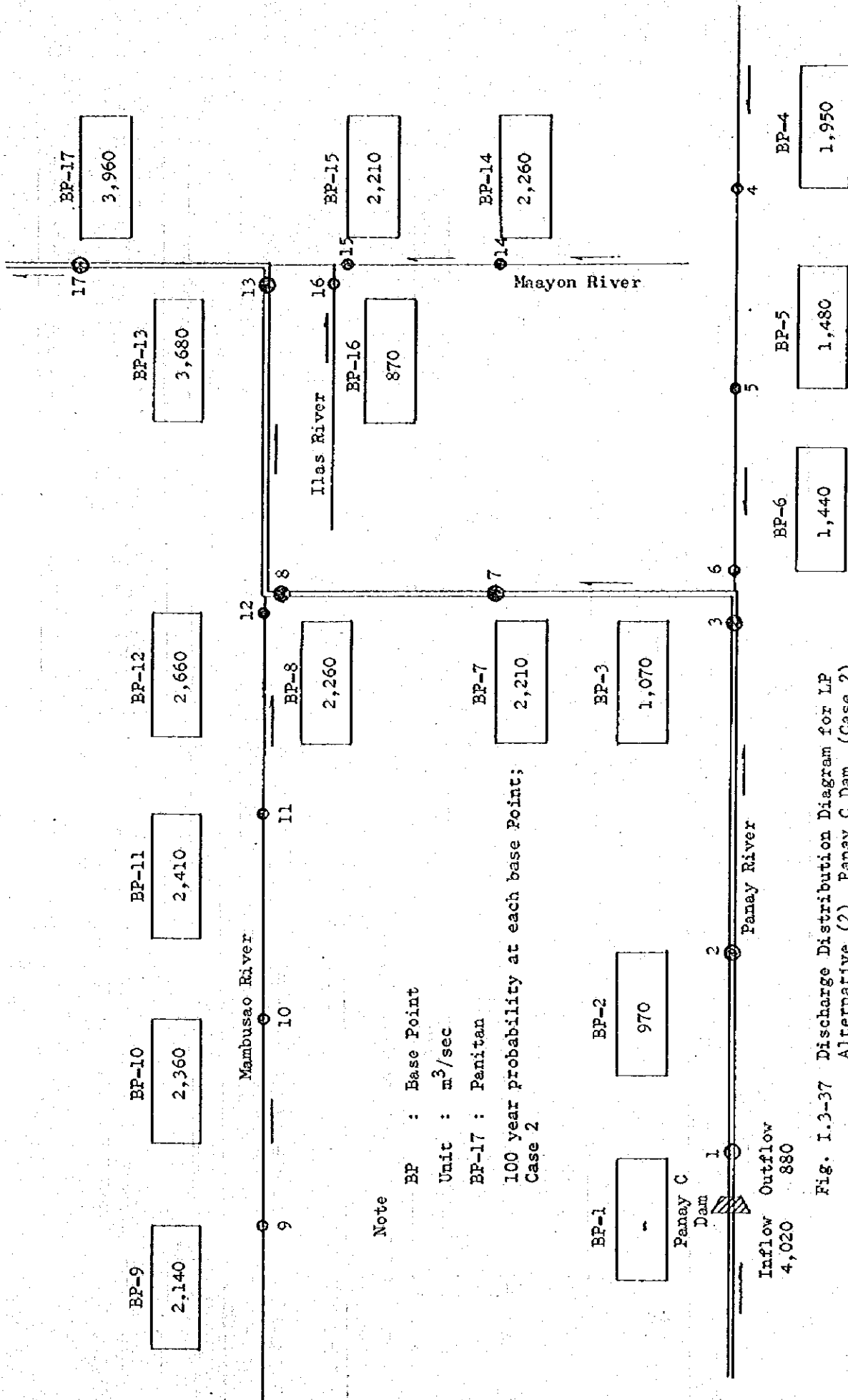


Fig. 1.3-37 Discharge Distribution Diagram for LP Alternative (2), Panay C dam, (Case 1)



Note
 BP : Base Point
 Unit : m³/sec
 BP-17 : Panitan
 100 year probability at each base Point;
 Case 2

Fig. I.3-37 Discharge Distribution Diagram for LP Alternative (2), Panay C Dam, (Case 2)

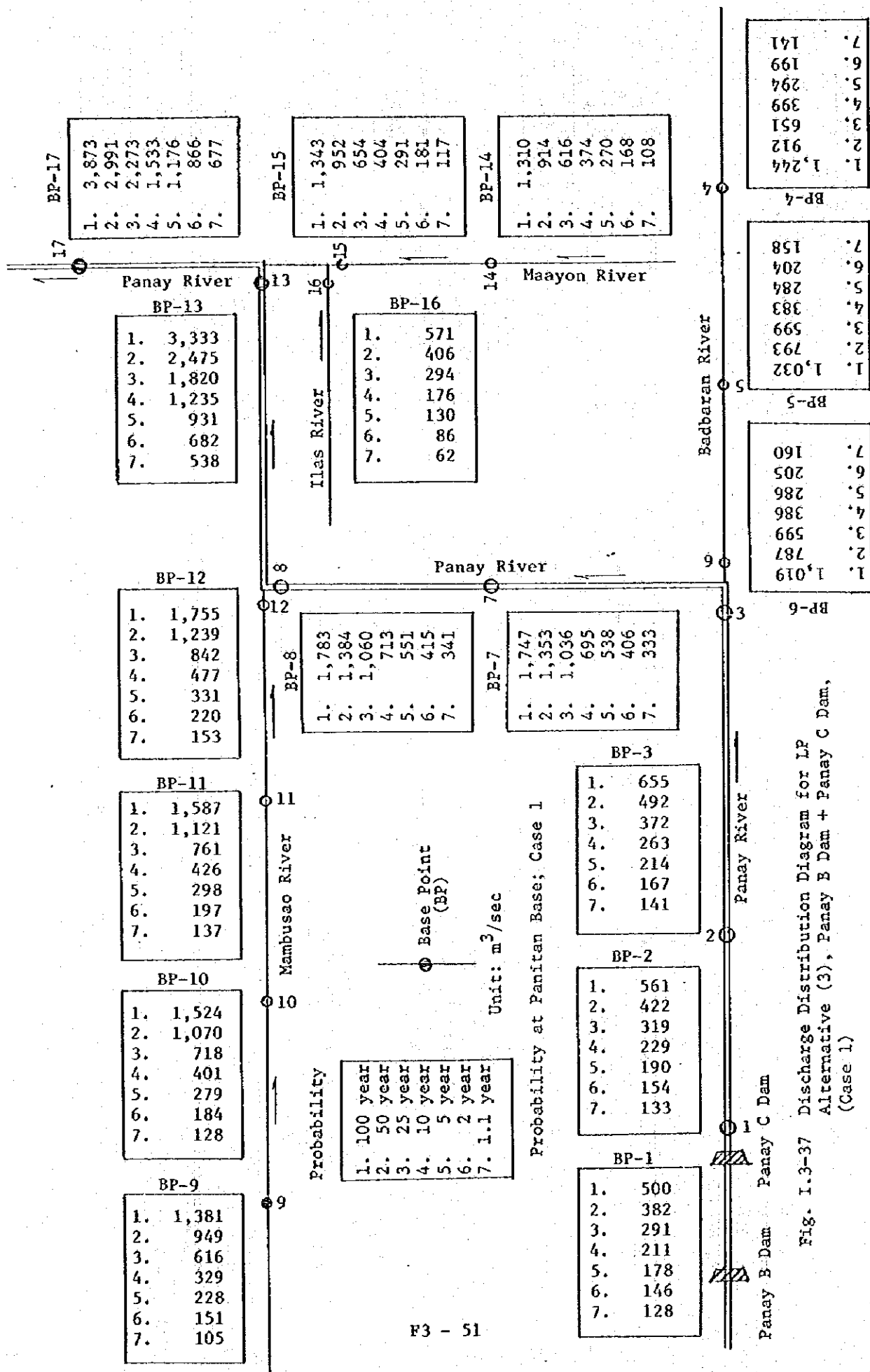


Fig. I.3-37 Discharge Distribution Diagram for LP Alternative (3), Panay B Dam + Panay C Dam, (Case 1)

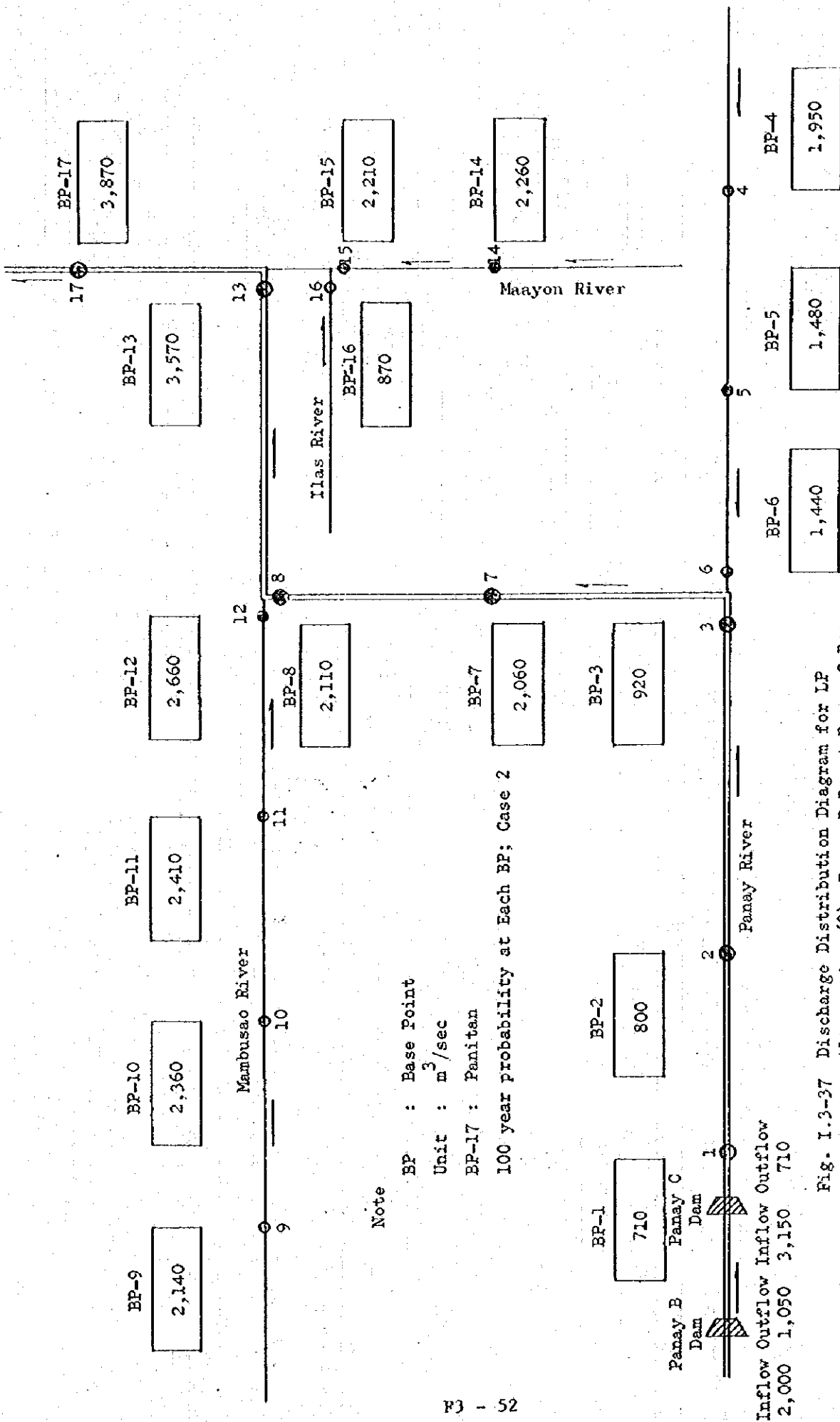


Fig. I.3-37 Discharge Distribution Diagram for LP Alternative (3), Panay B Dam + Panay C Dam, (Case 2)

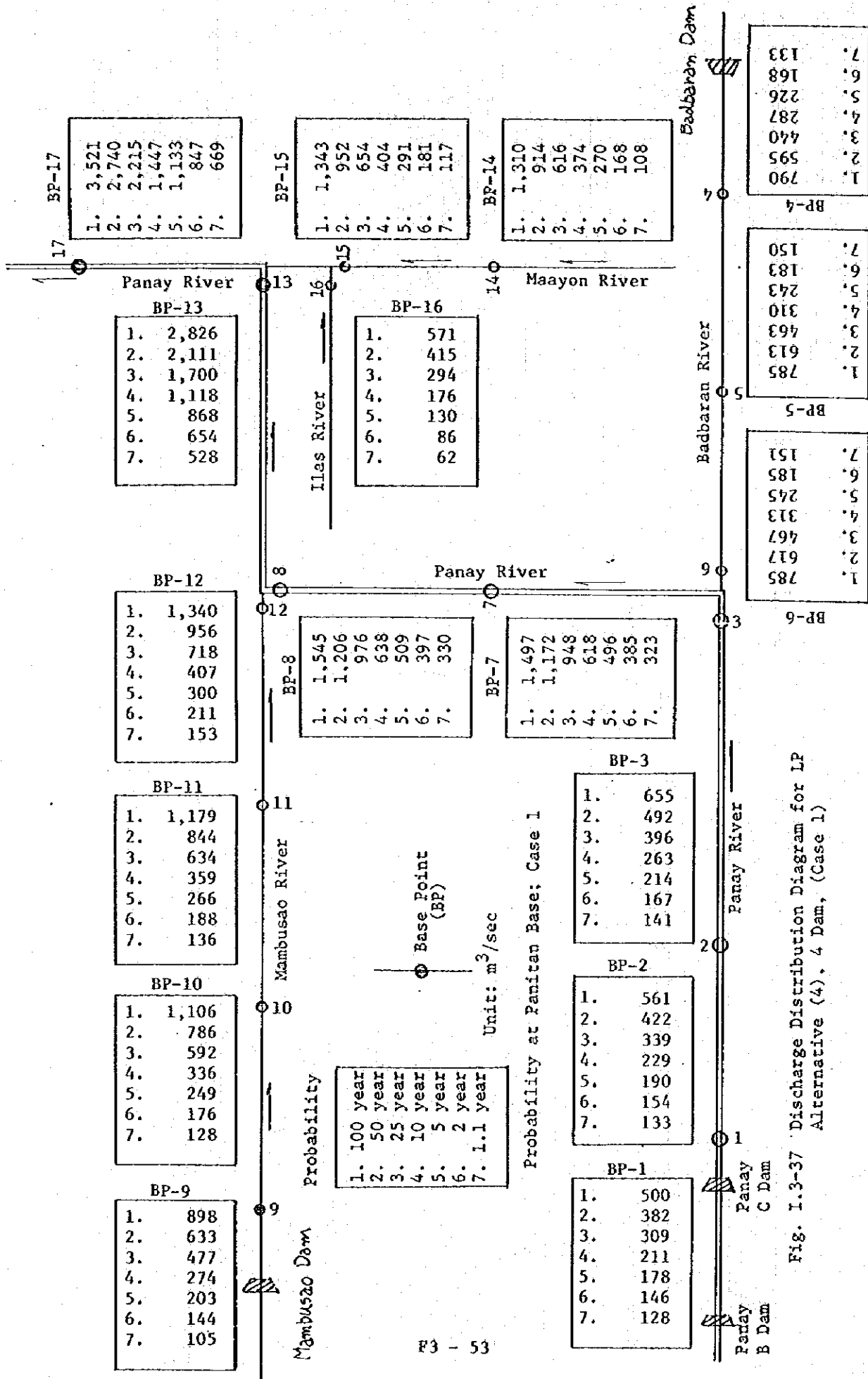


Fig. I.3-37 Discharge Distribution Diagram for LP Alternative (4). 4 Dam, (Case 1)

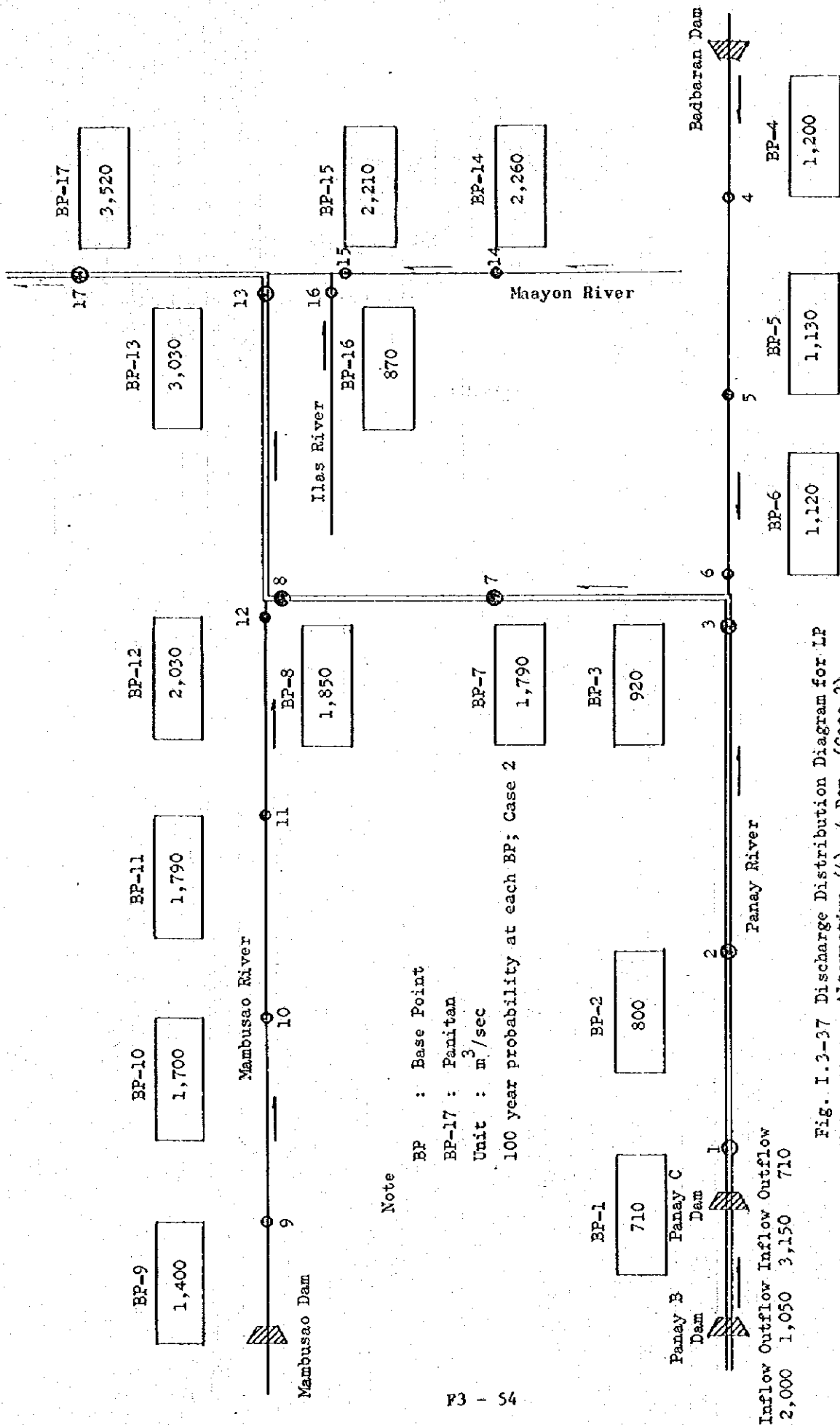


Fig. I.3-37 Discharge Distribution Diagram for LP Alternative (4), 4 Dam, (Case 2)

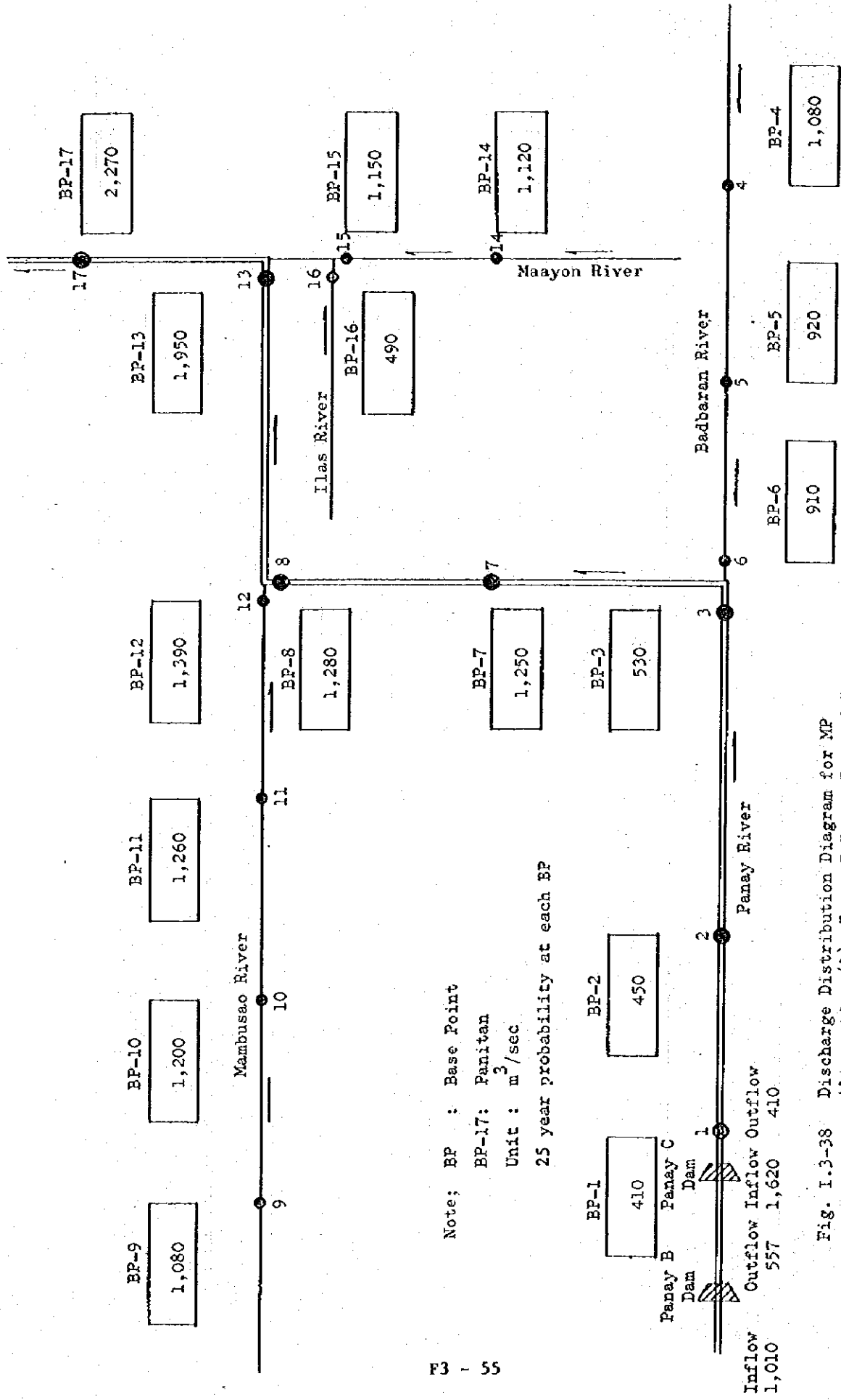
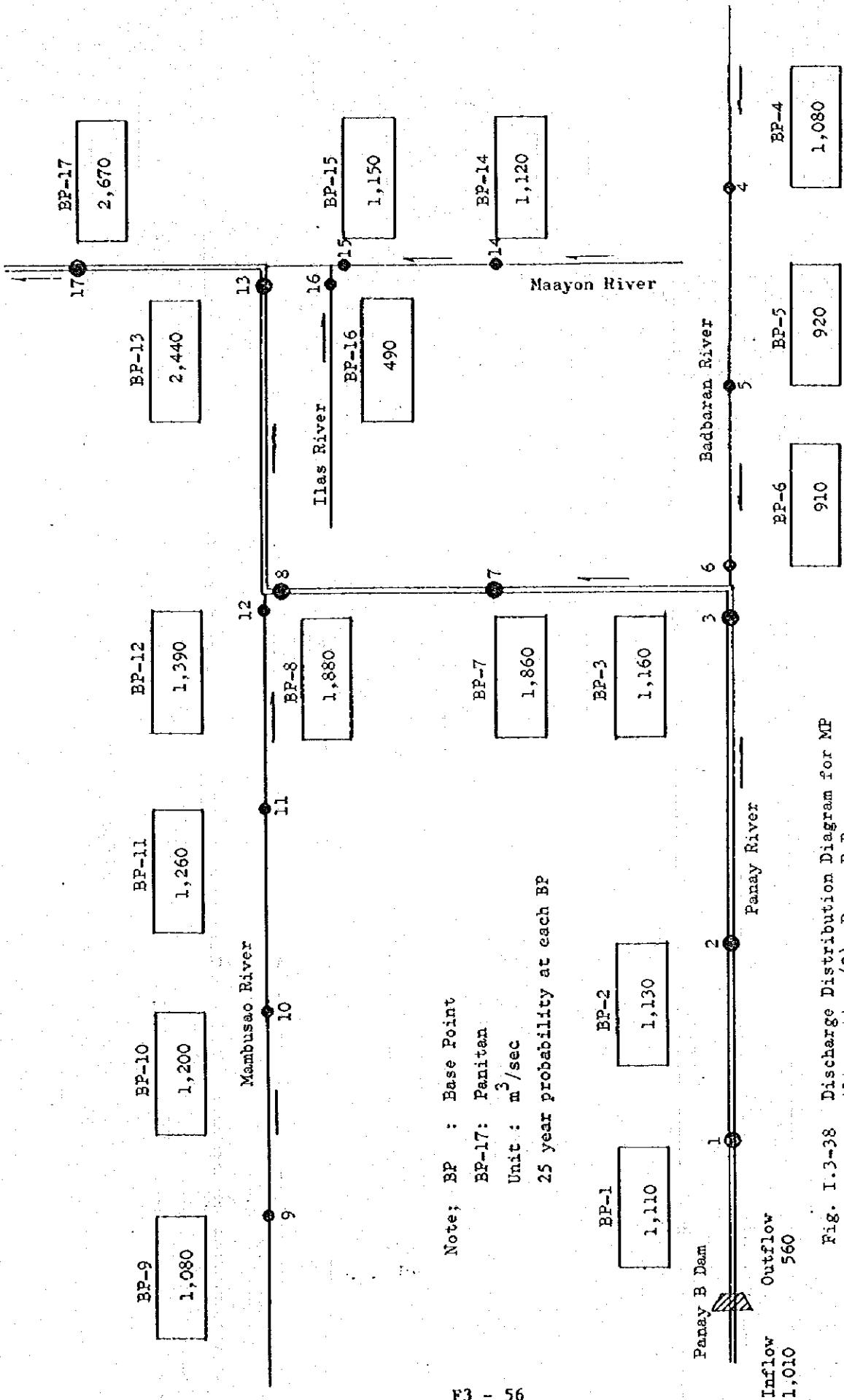
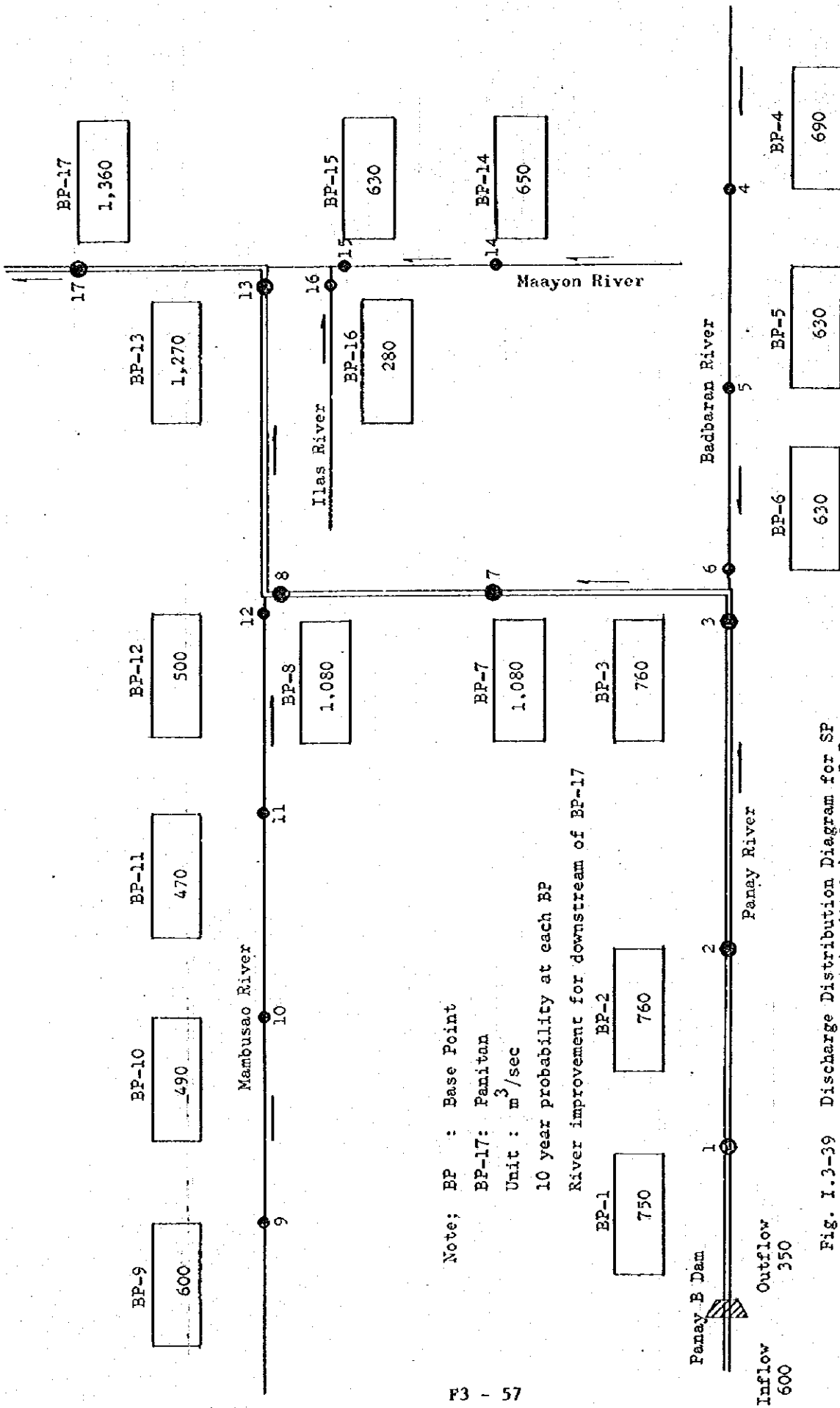


Fig. I.3-38 Discharge Distribution Diagram for MP Alternative (1), Panay B Dam + Panay C Dam



Note; BP : Base Point
 BP-17: Panitan
 Unit : m³/sec
 25 year probability at each BP

Fig. I.3-38 Discharge Distribution Diagram for MP Alternative (2), Panay B Dam



Note; BP : Base Point

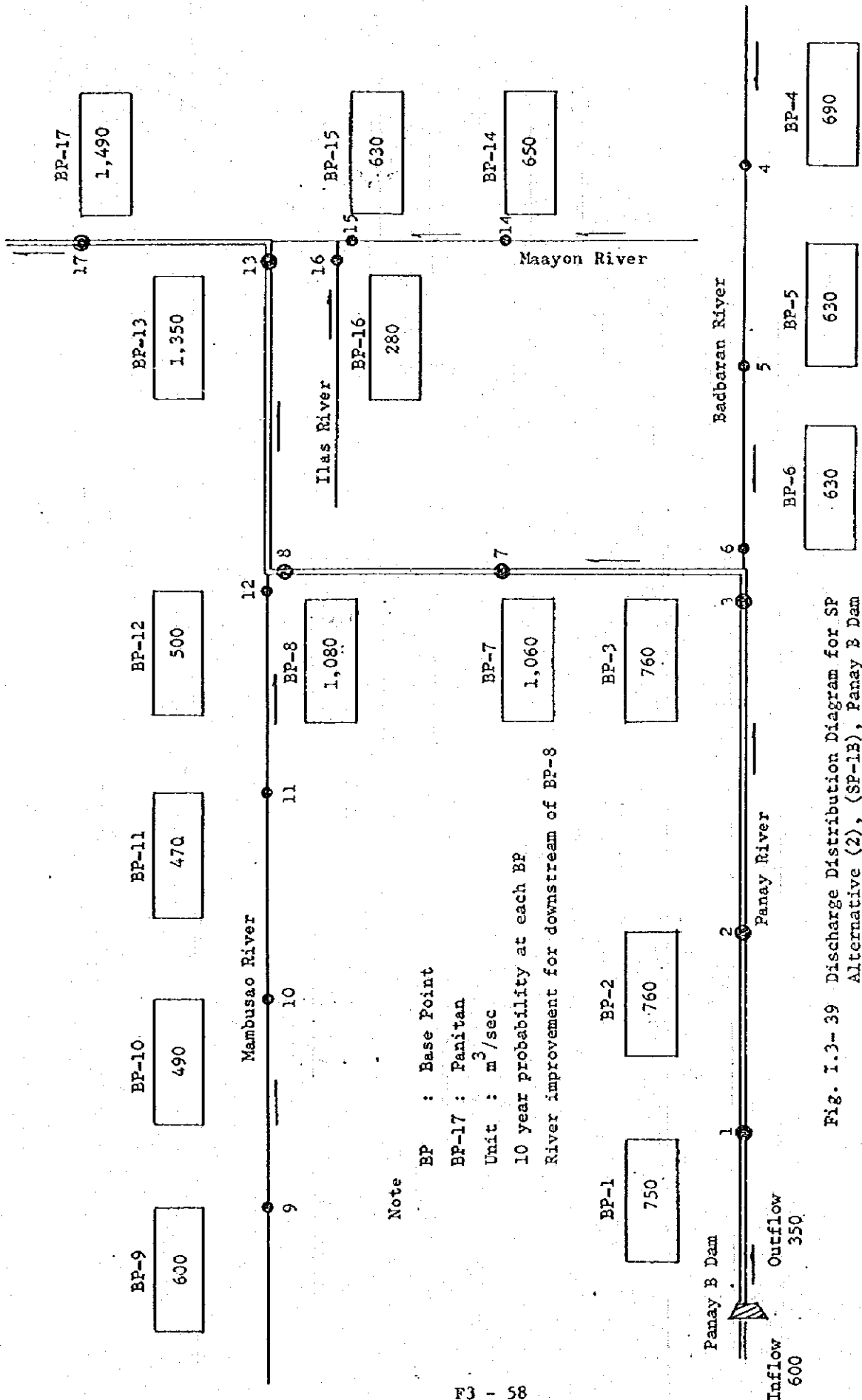
BP-17: Panitan

Unit : m³/sec

10 year probability at each BP

River improvement for downstream of BP-17

Fig. I.3-39 Discharge Distribution Diagram for SP Alternative (1), (SP-1A), Panay B Dam



Note

BP : Base Point

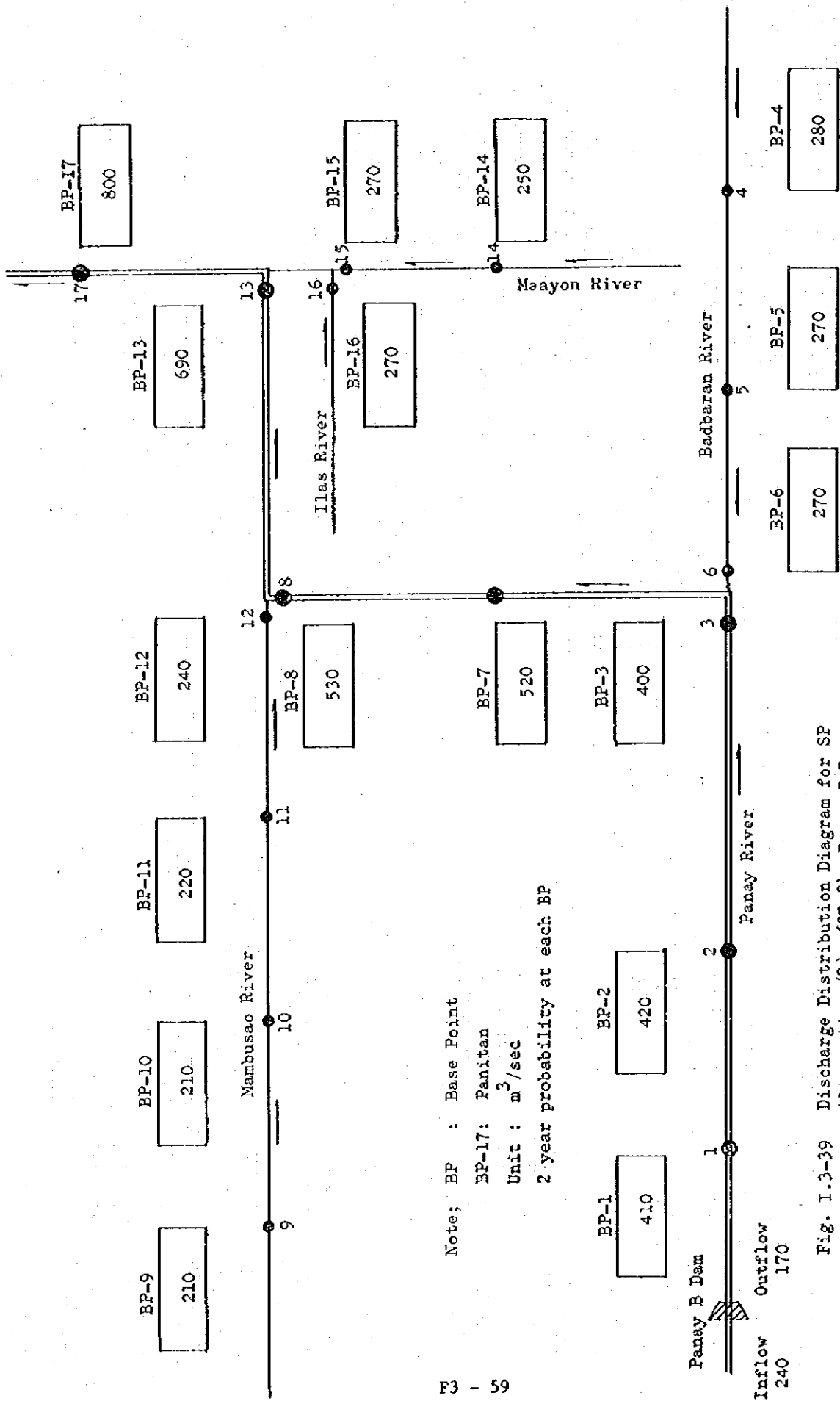
BP-17 : Panitan

Unit : m³/sec

10 year probability at each BP

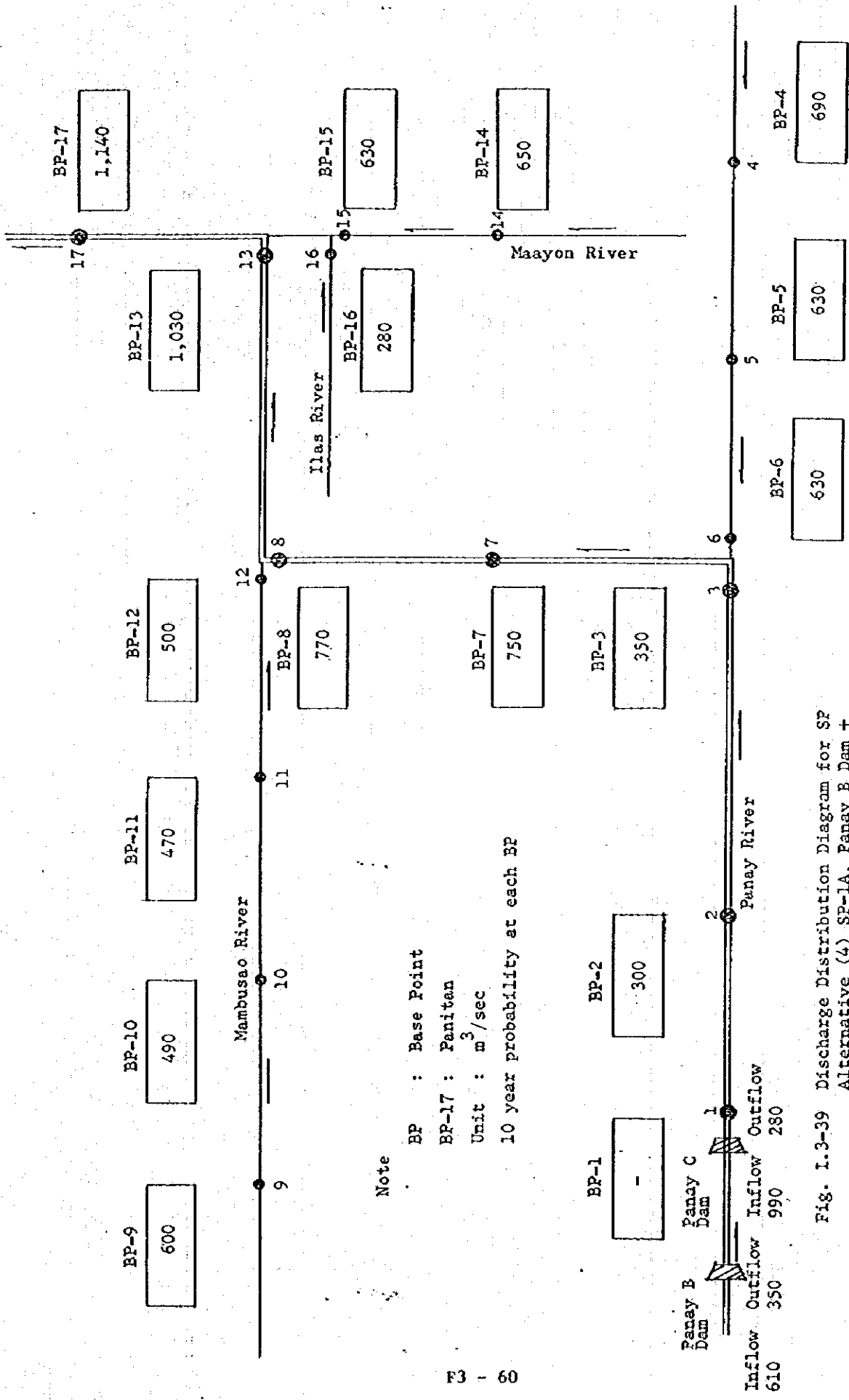
River improvement for downstream of BP-8

Fig. I.3-39 Discharge Distribution Diagram for SP Alternative (2), (SP-1B), Panay B Dam



Note; BP : Base Point
 BP-17: Paritan
 Unit : m³/sec
 2 year probability at each BP

Fig. I.3-39 Discharge Distribution Diagram for SP Alternative (3), (SP-2), Panay B Dam



Note

BP : Base Point
 BP-17 : Panitan
 Unit : m³/sec
 10 year probability at each BP

Fig. I.3-39 Discharge Distribution Diagram for SP Alternative (4) SP-1A, Panay B Dam + Panay C Dam

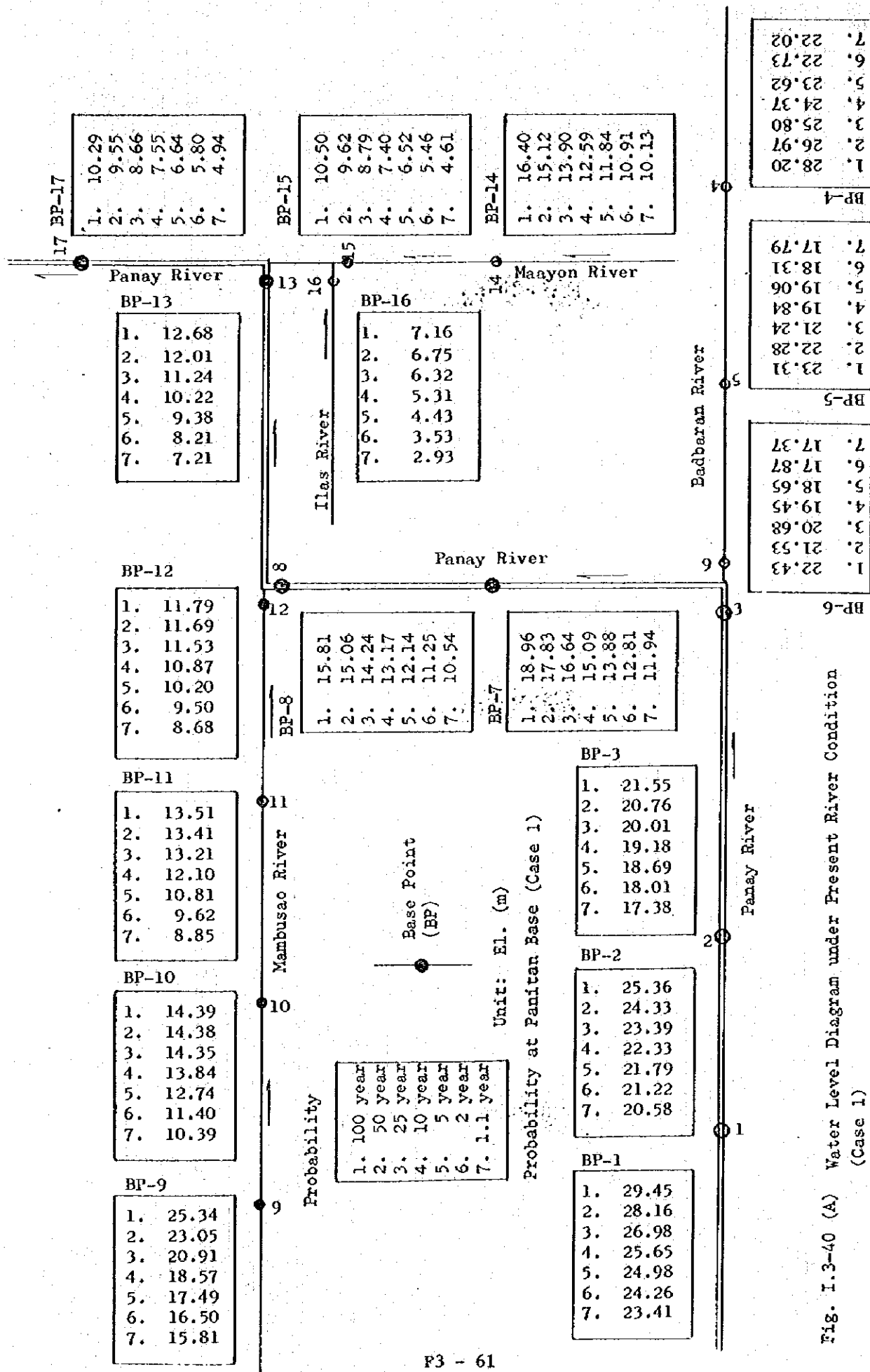


Fig. I.3-40 (A) Water Level Diagram under Present River Condition (Case 1)

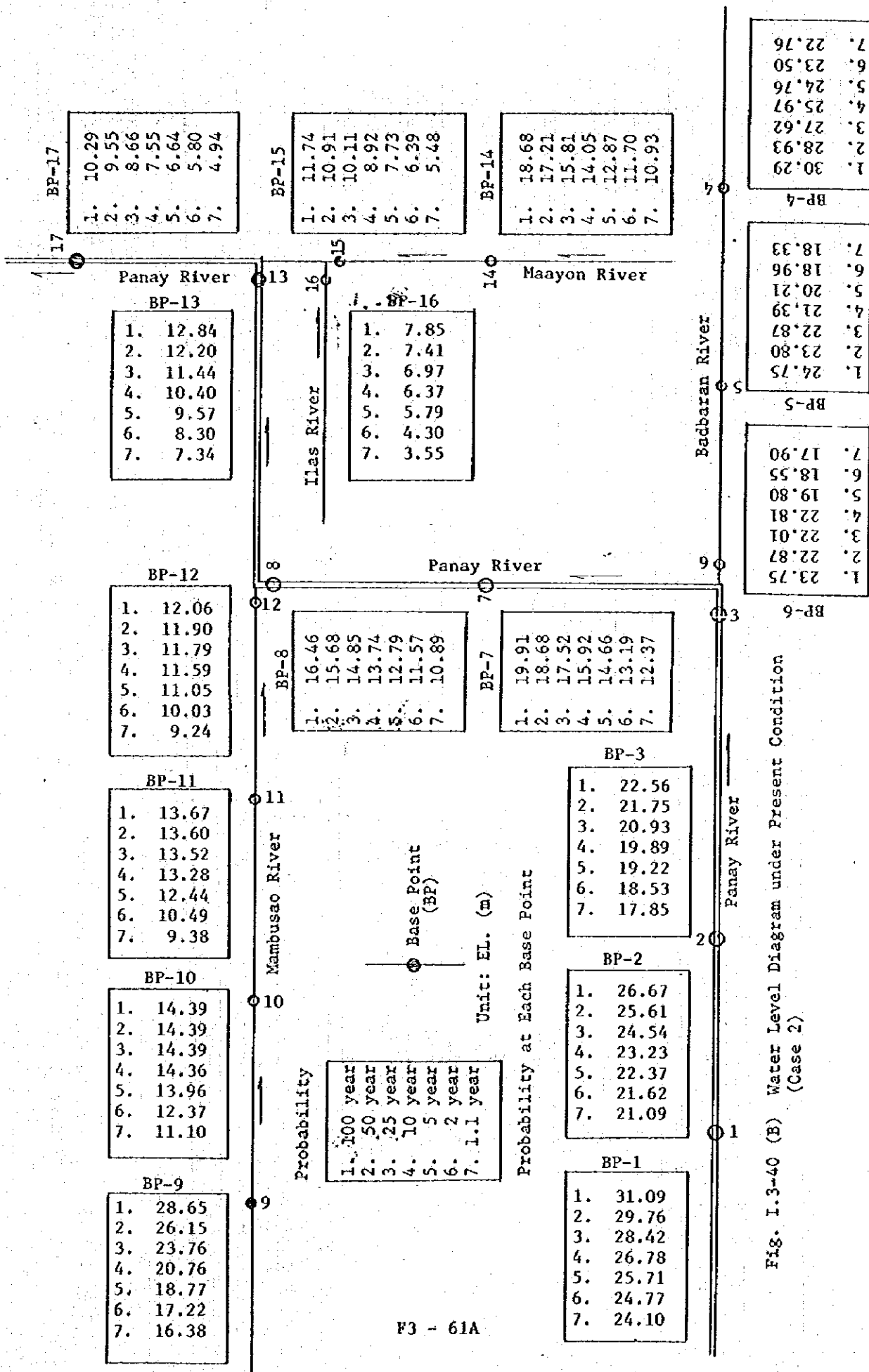


Fig. I.3-40 (B) Water Level Diagram under Present Condition (Case 2)

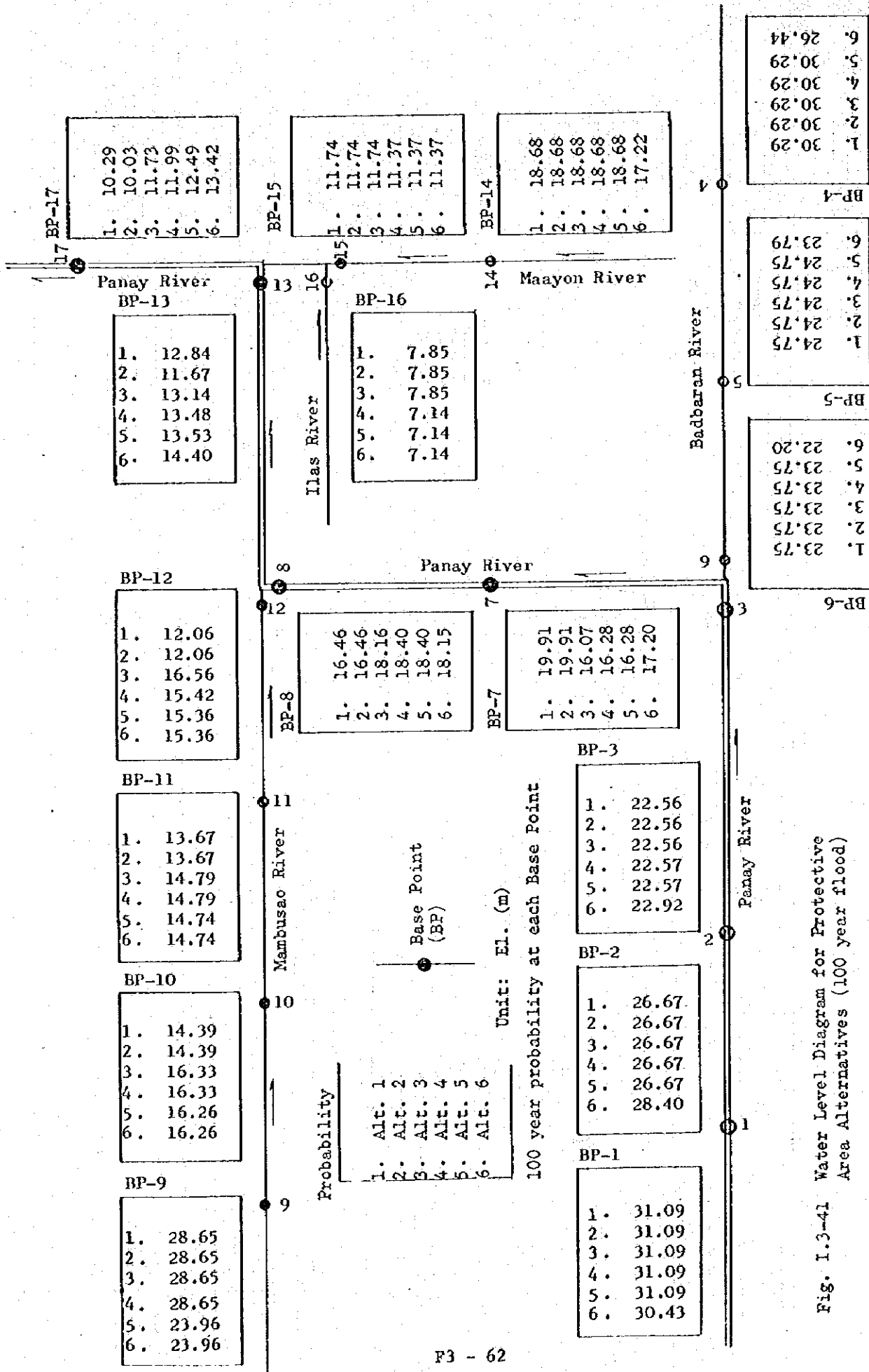


Fig. I.3-41 Water Level Diagram for Protective Area Alternatives (100 year flood)

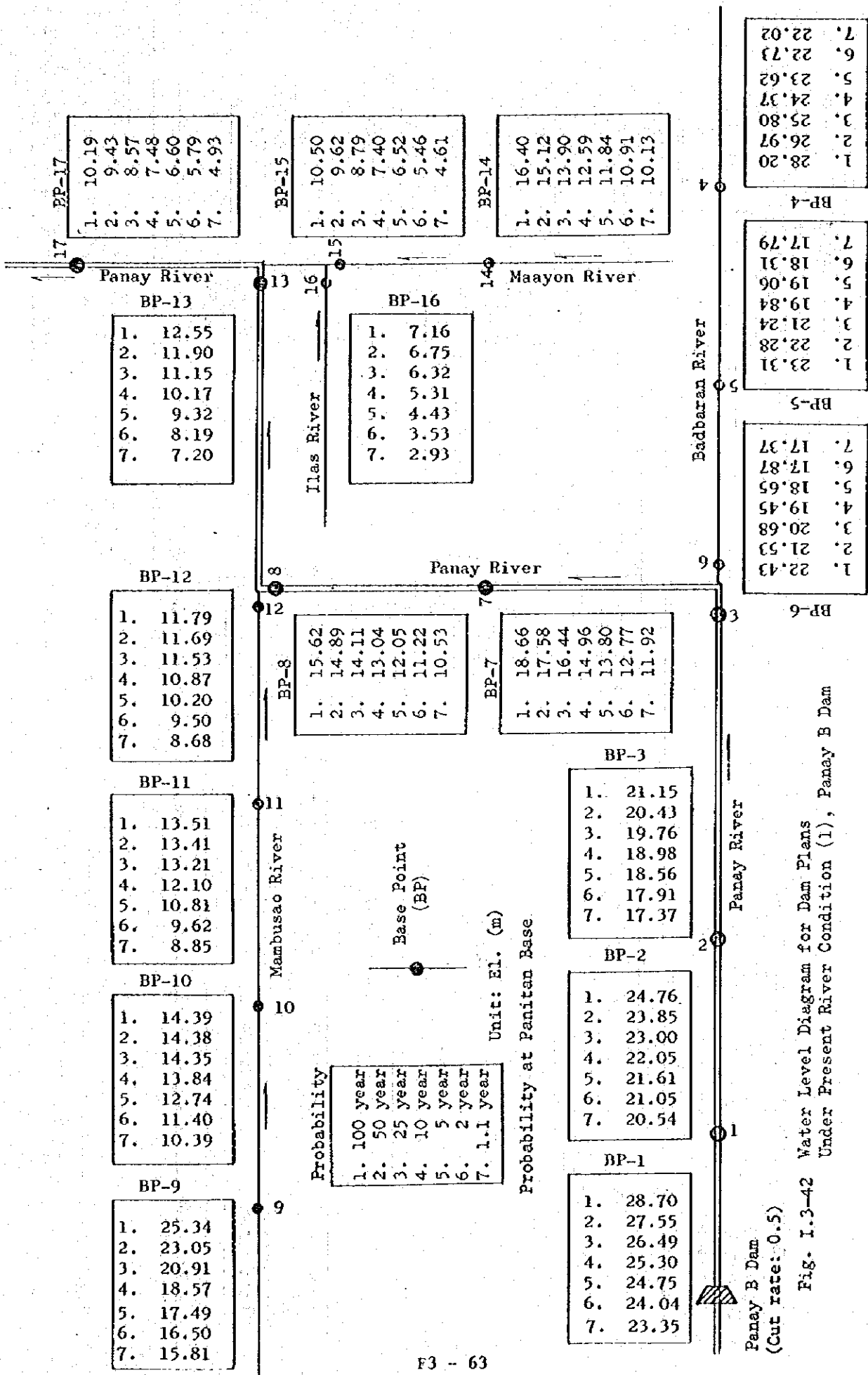


Fig. I.3-42 Water Level Diagram for Dam Plans Under Present River Condition (1), Panay B Dam

Panay B Dam
(Cut rate: 0.5)

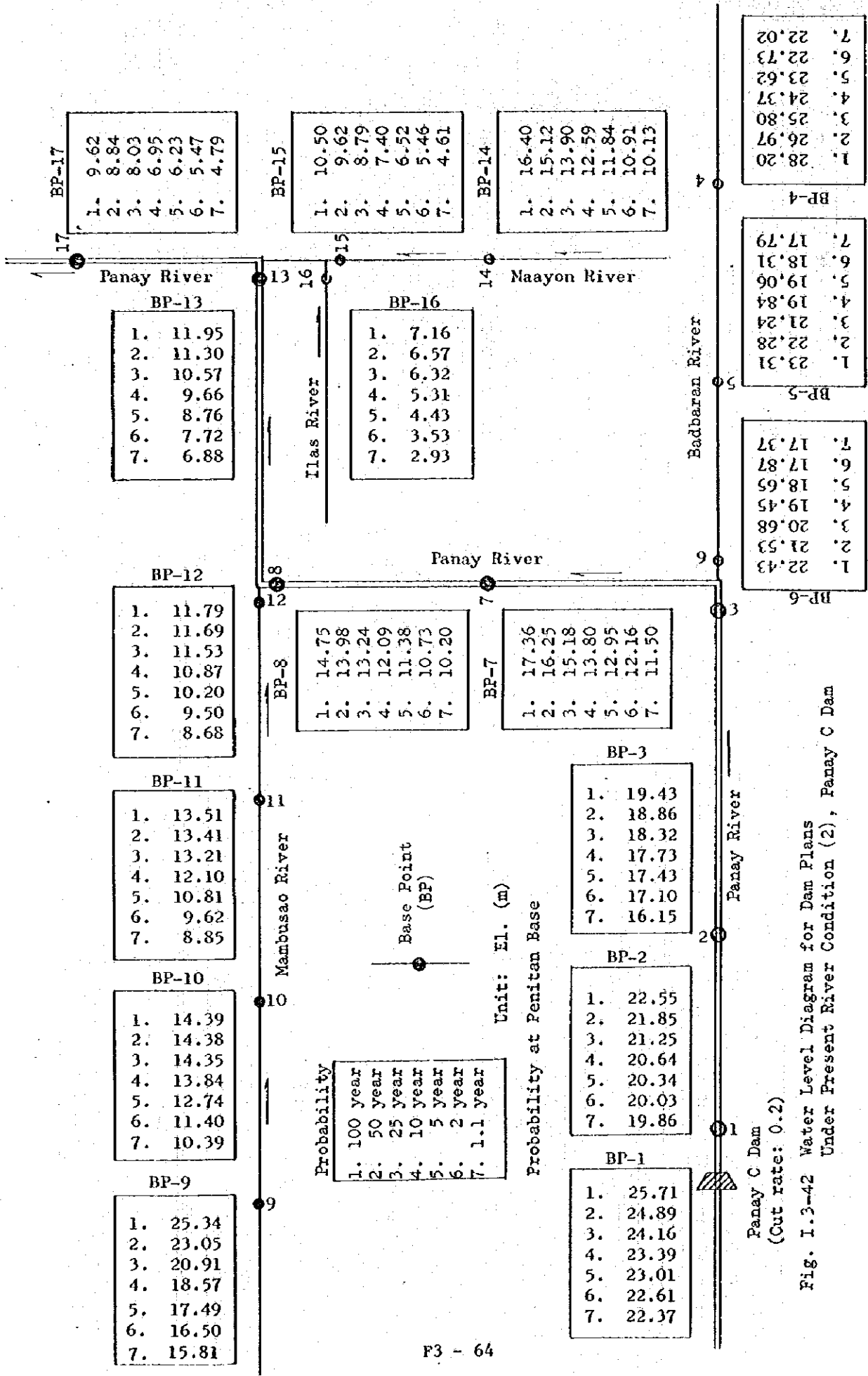


Fig. I.3-42 Water Level Diagram for Dam Plans Under Present River Condition (2), Panay C Dam

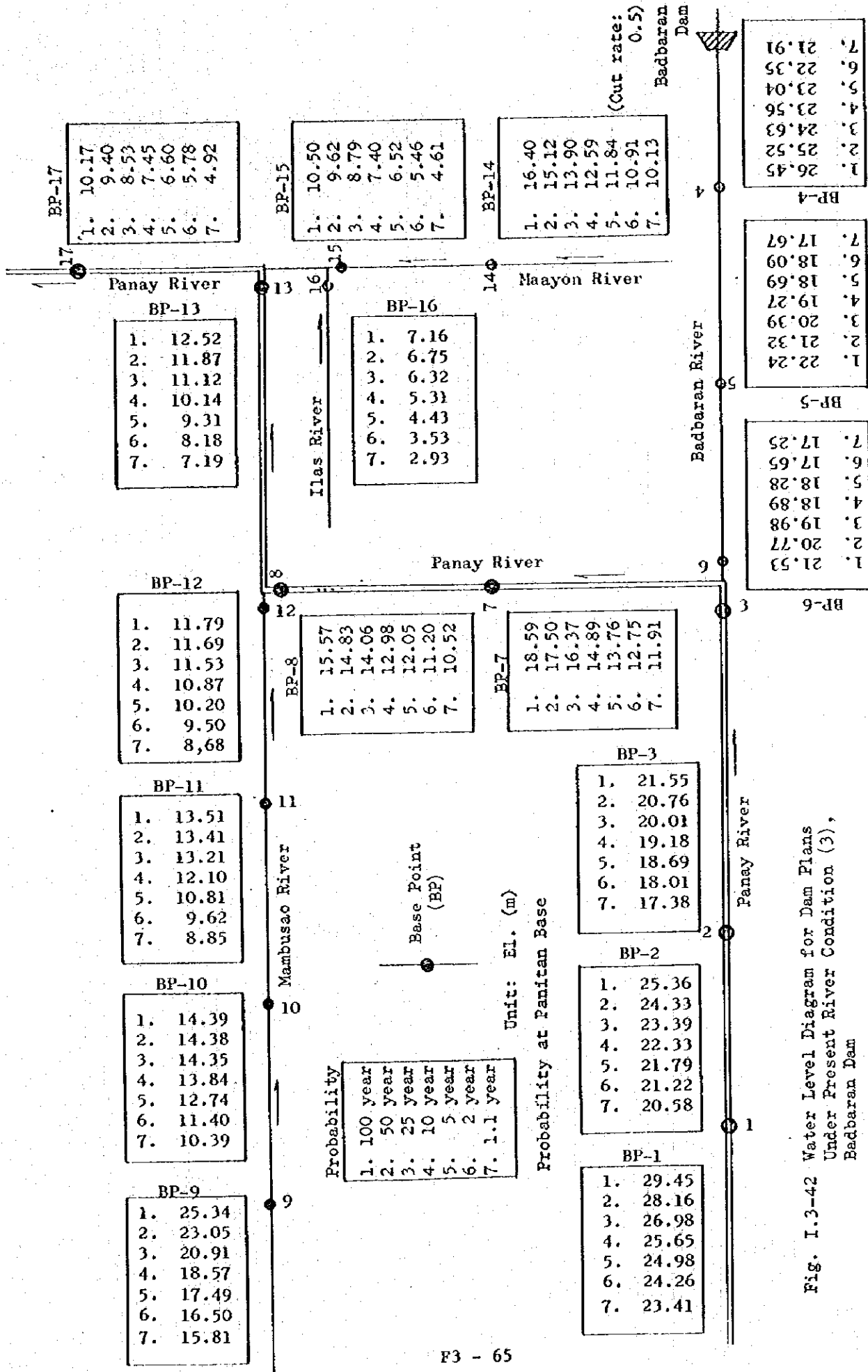


Fig. I.3-42 Water Level Diagram for Dam Plans Under Present River Condition (3), Badbaran Dam

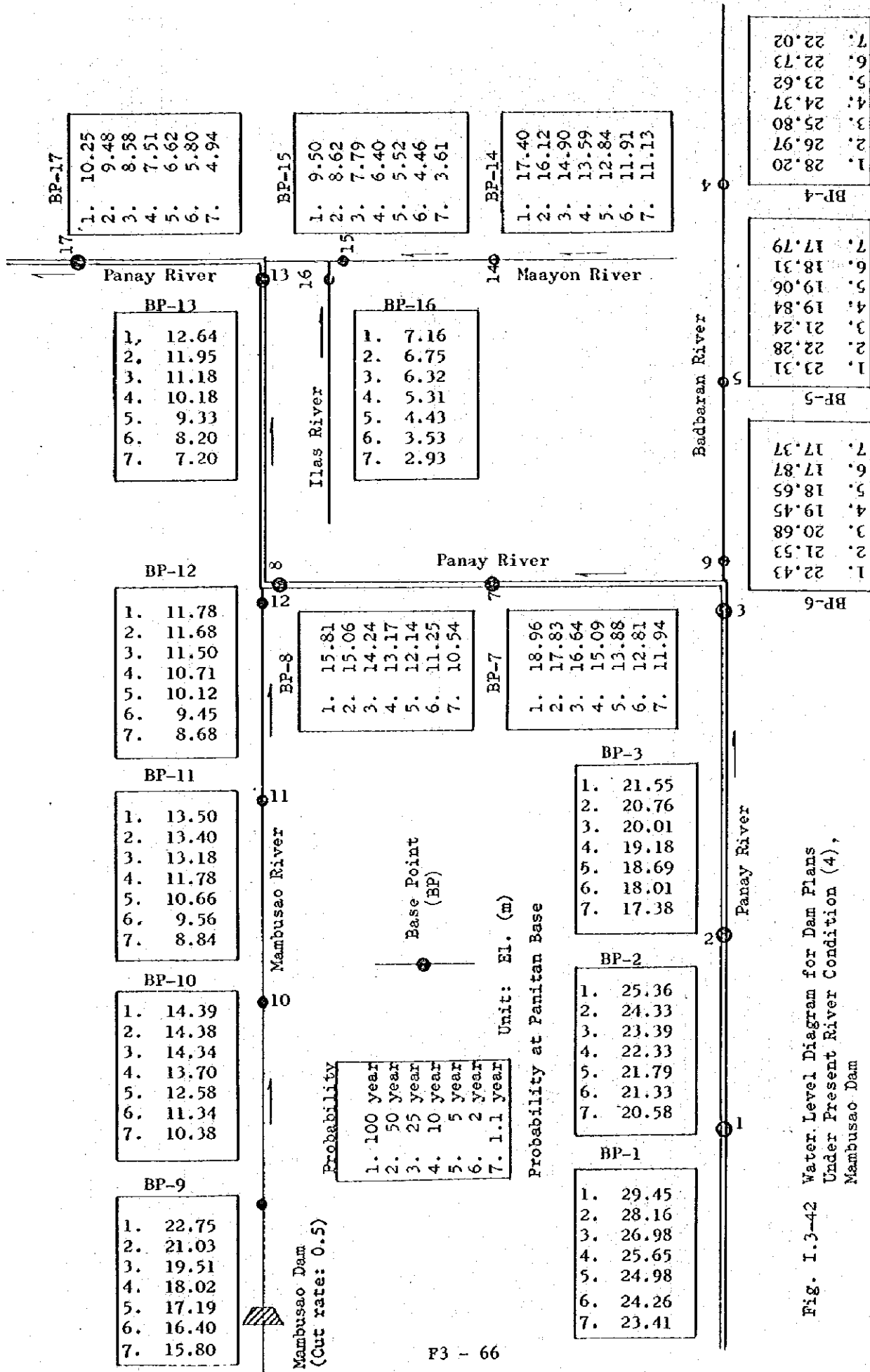


Fig. I.3-42 Water Level Diagram for Dam Plans Under Present River Condition (4), Mambusao Dam

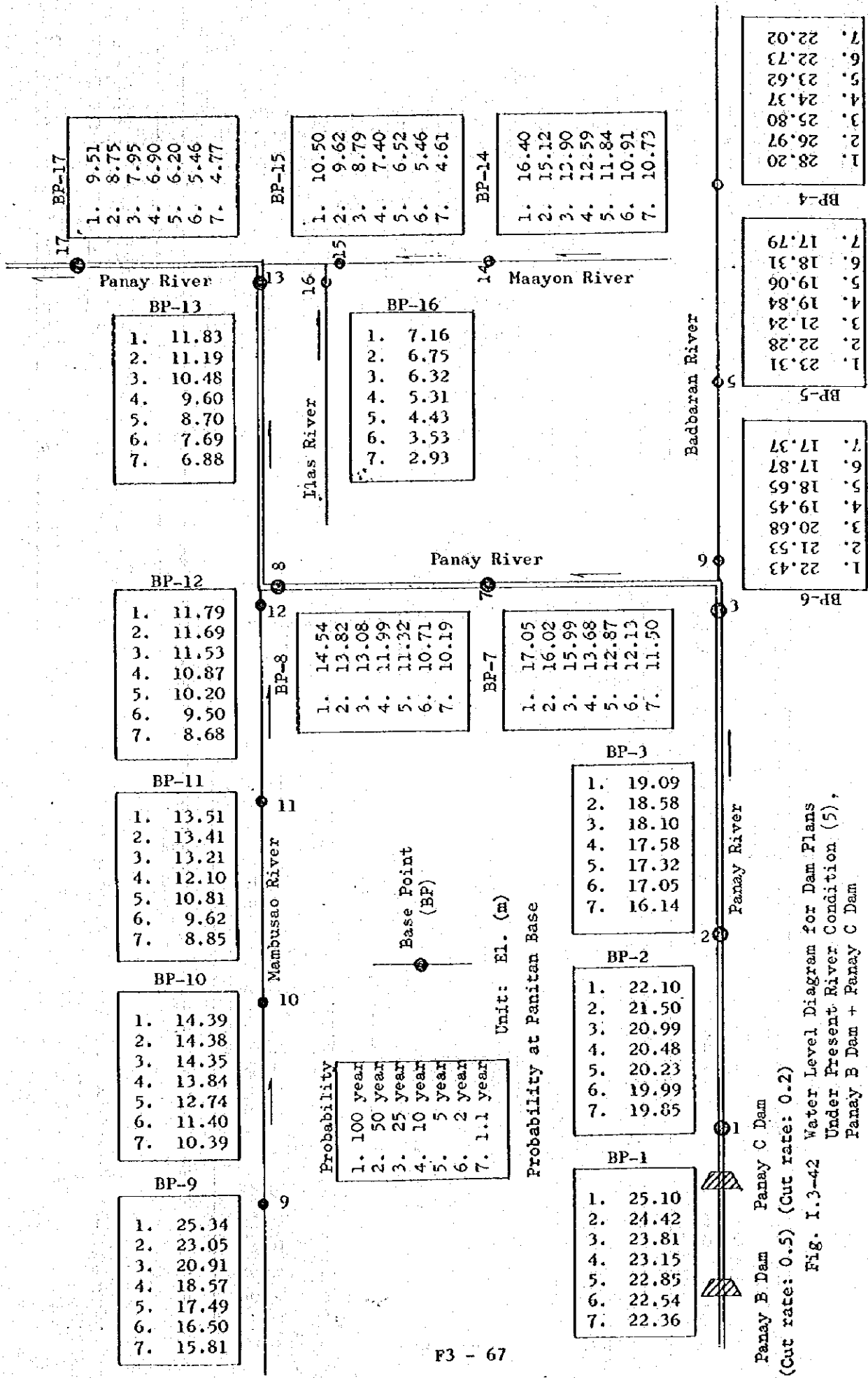


Fig. I.3-42 Water Level Diagram for Dam Plans Under Present River Condition (5), Panay B Dam + Panay C Dam

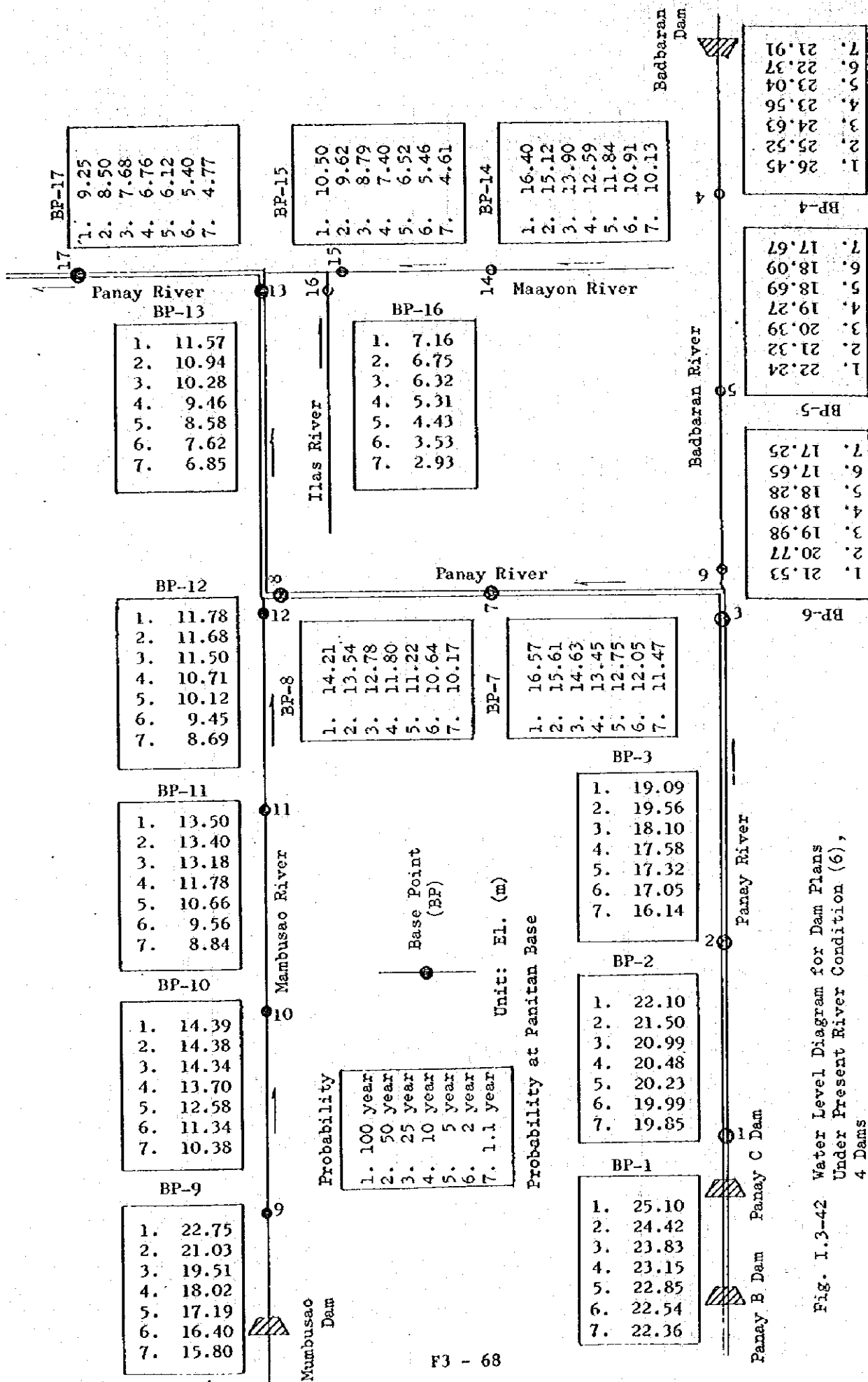


Fig. I.3-42 Water Level Diagram for Dam Plans Under Present River Condition (6), 4 Dams

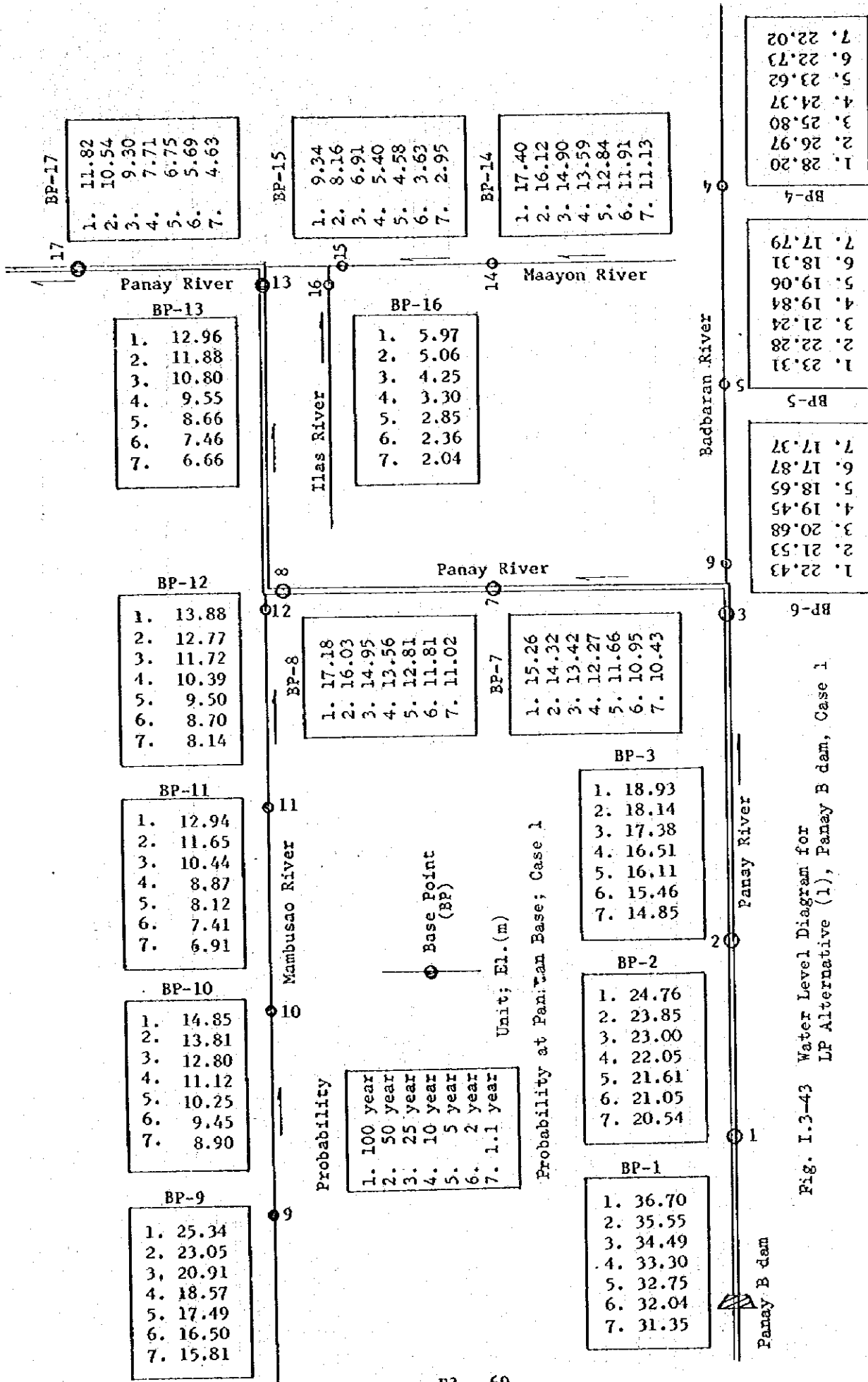


Fig. I.3-43 Water Level Diagram for LP Alternative (1), Panay B dam, Case 1

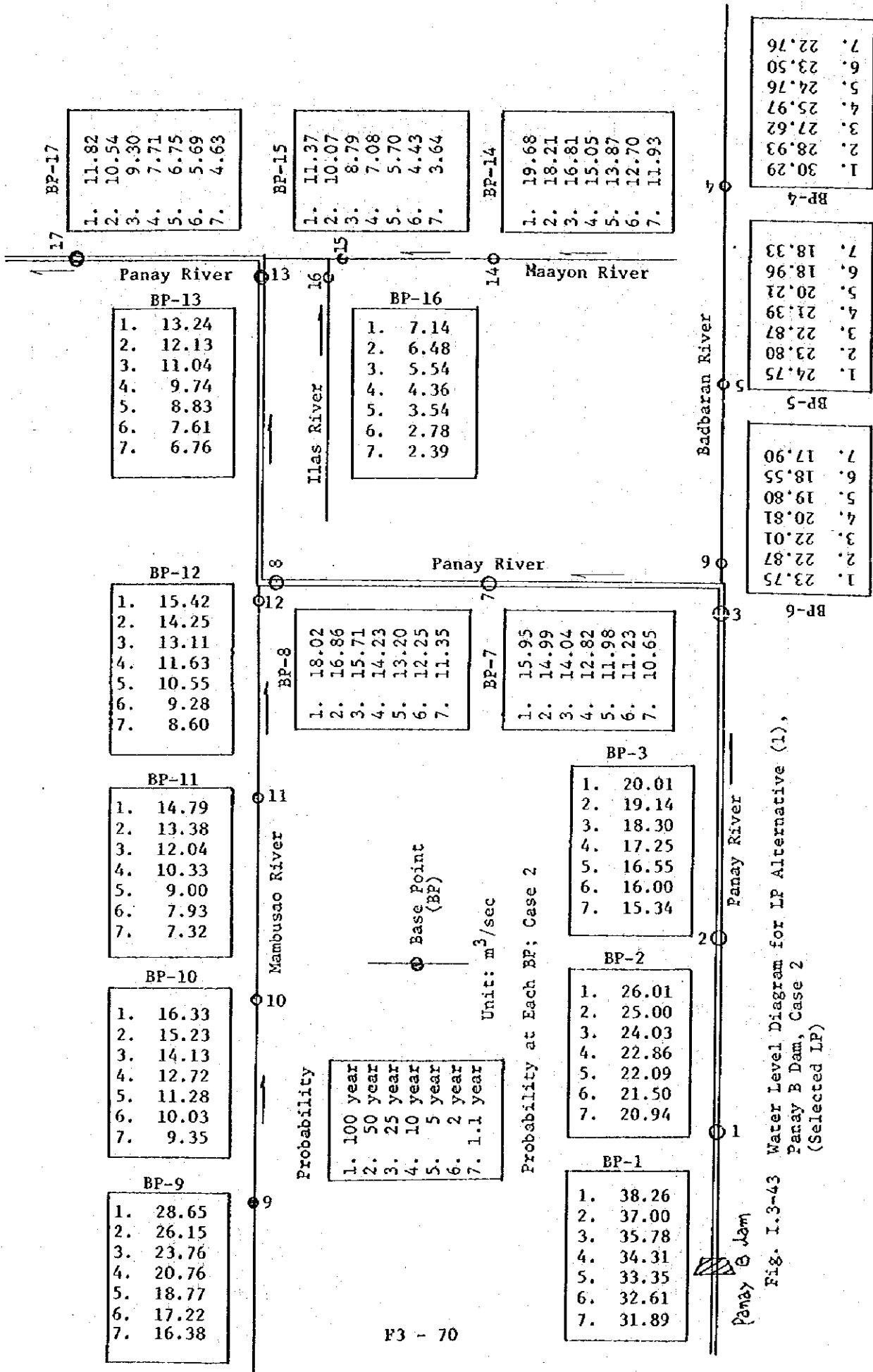


Fig. I.3-43 Water Level Diagram for LP Alternative (1), Panay B Dam, Case 2 (Selected LP)

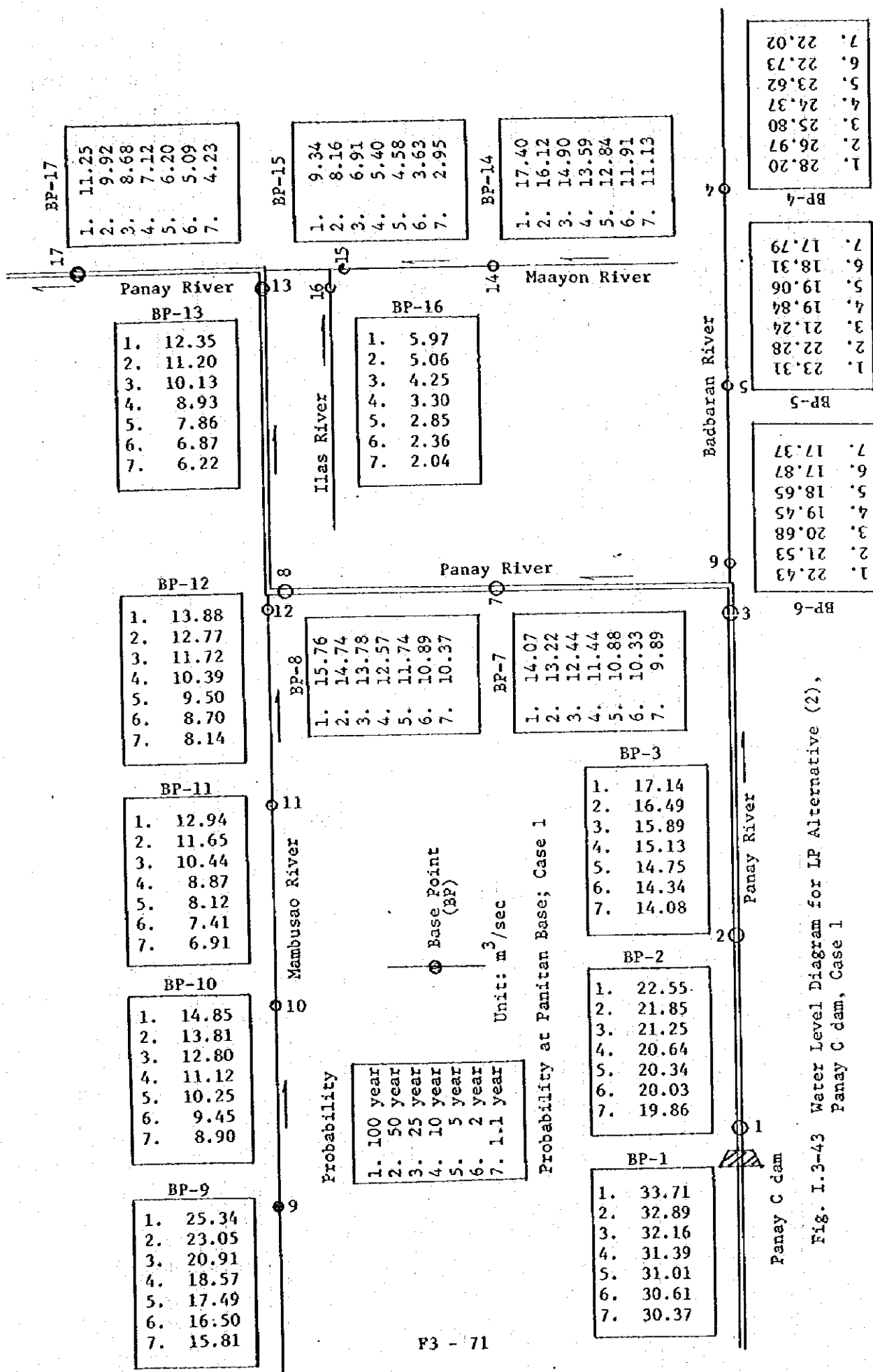
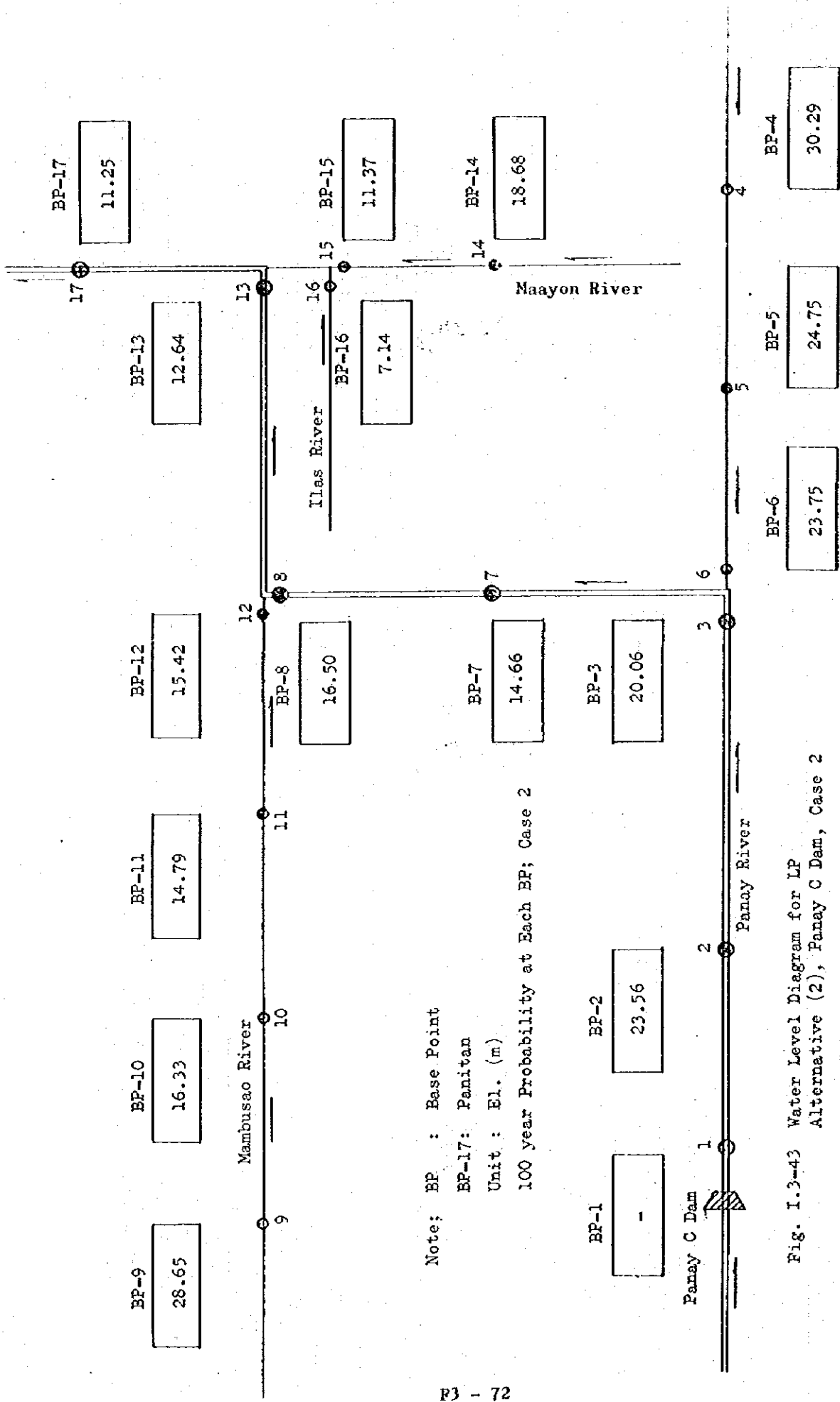


Fig. I.3-43 Water Level Diagram for LP Alternative (2), Panay C dam, Case 1



Note: BP : Base Point
 BP-17: Panitan
 Unit : El. (m)
 100 year Probability at Each BP; Case 2

Fig. I.3-43 Water Level Diagram for LP Alternative (2), Panay C Dam, Case 2

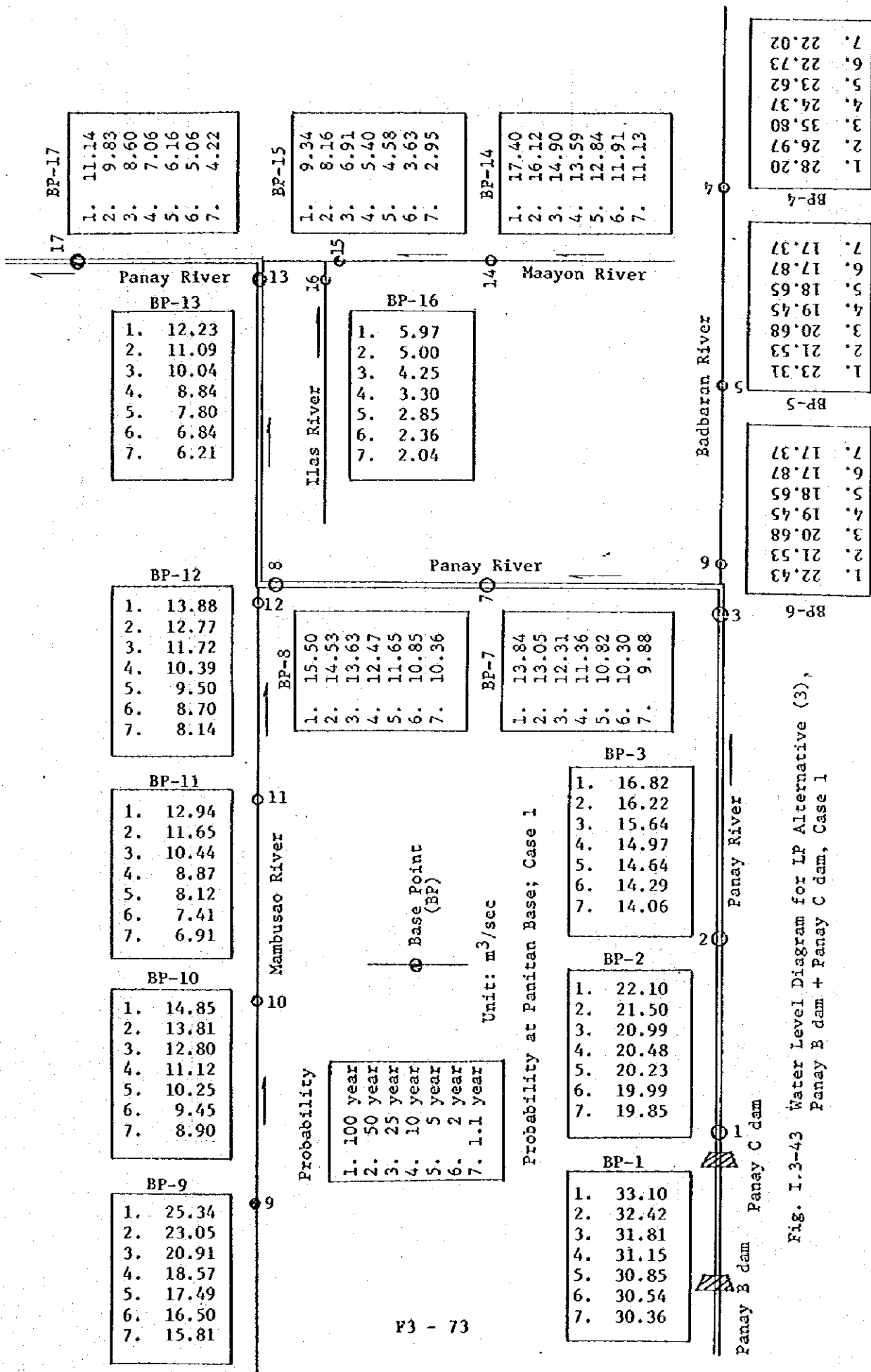
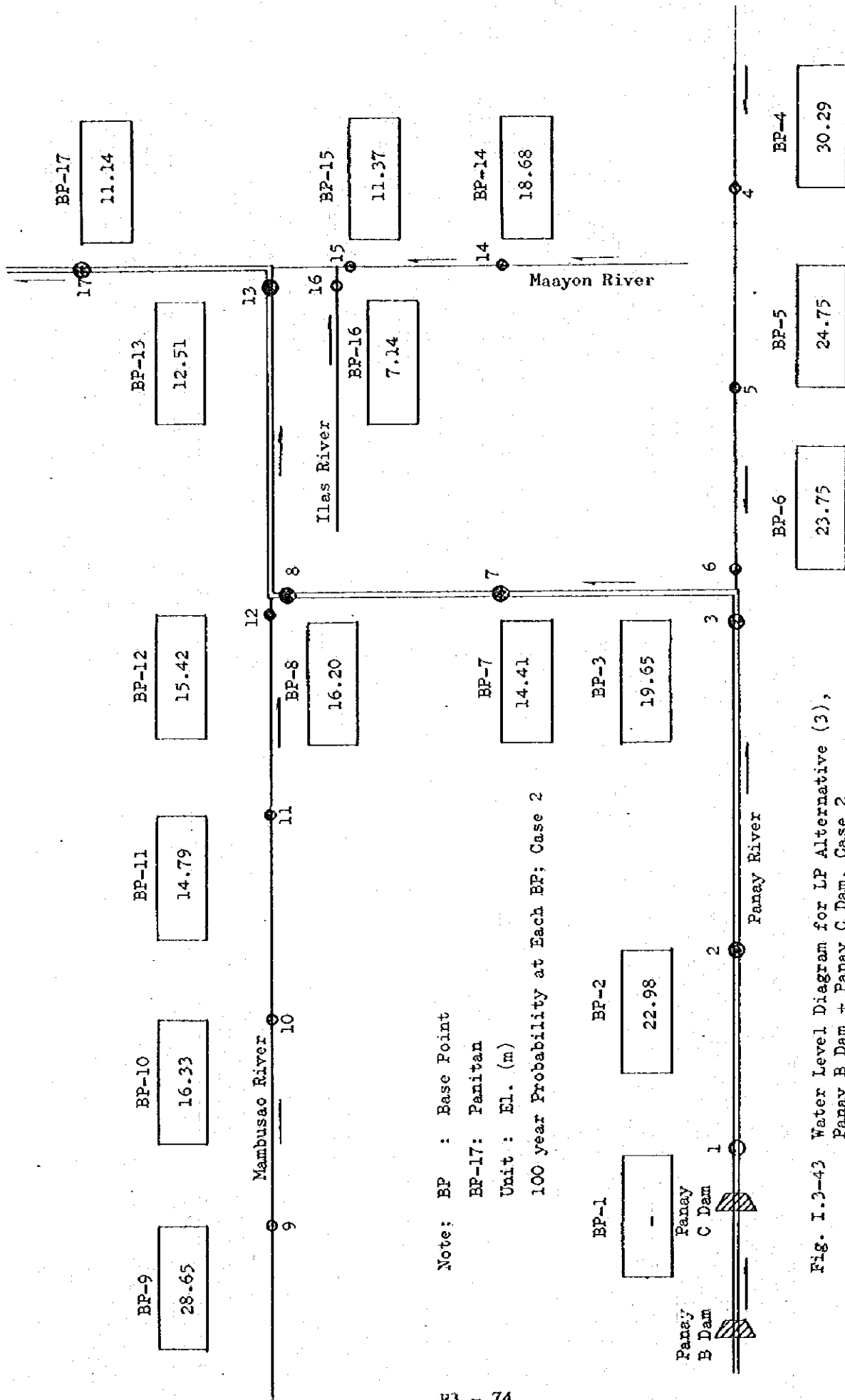


Fig. I.3-43 Water Level Diagram for LP Alternative (3), Panay B dam + Panay C dam, Case 1



Note: BP : Base Point

BP-17: Panitan

Unit : El. (m)

100 year Probability at Each BP; Case 2

Fig. I.2-43 Water Level Diagram for LP Alternative (3),
Panay B Dam + Panay C Dam, Case 2

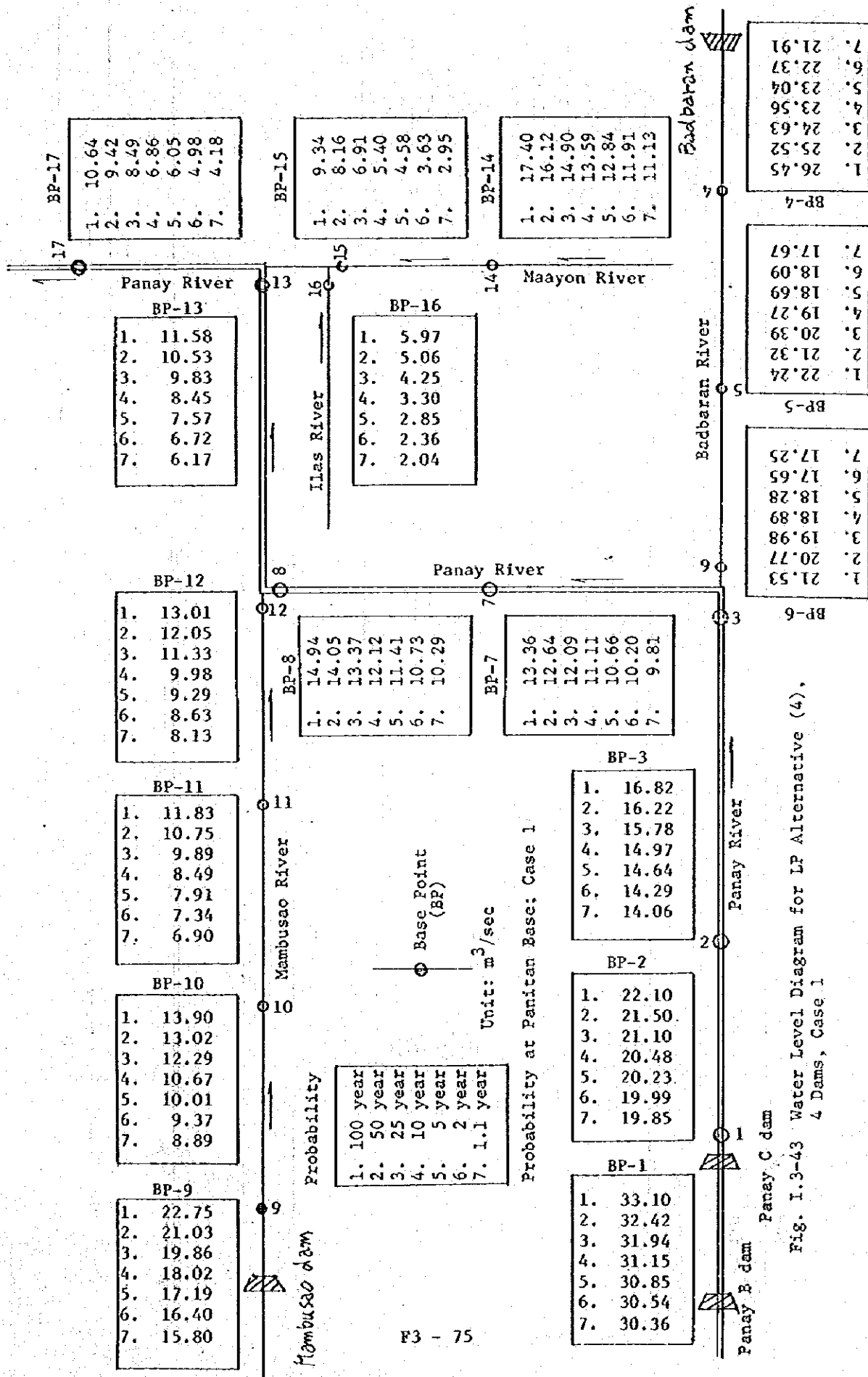
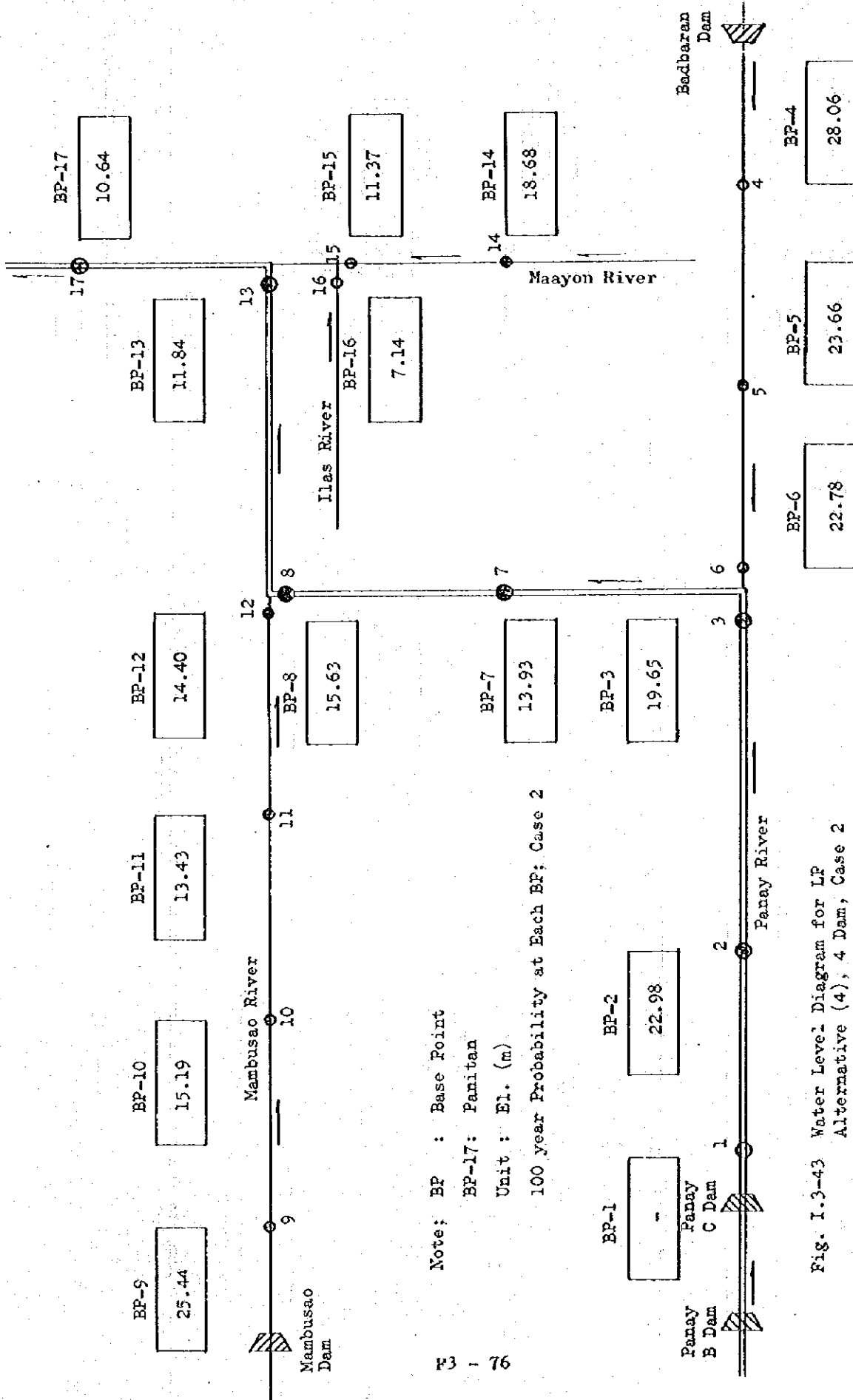
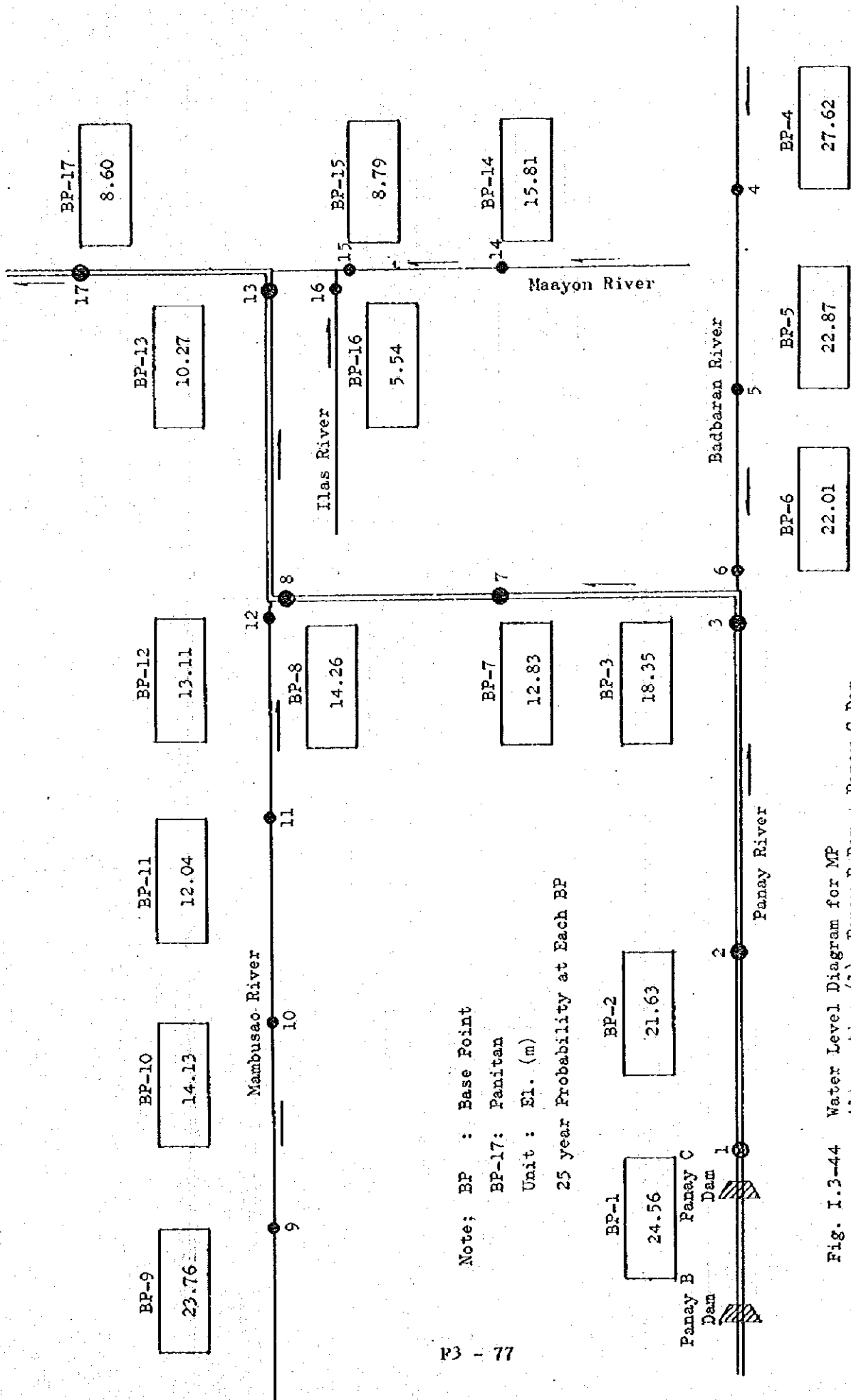


Fig. I.3-43 Water Level Diagram for LP Alternative (4),
4 Dams, Case 1



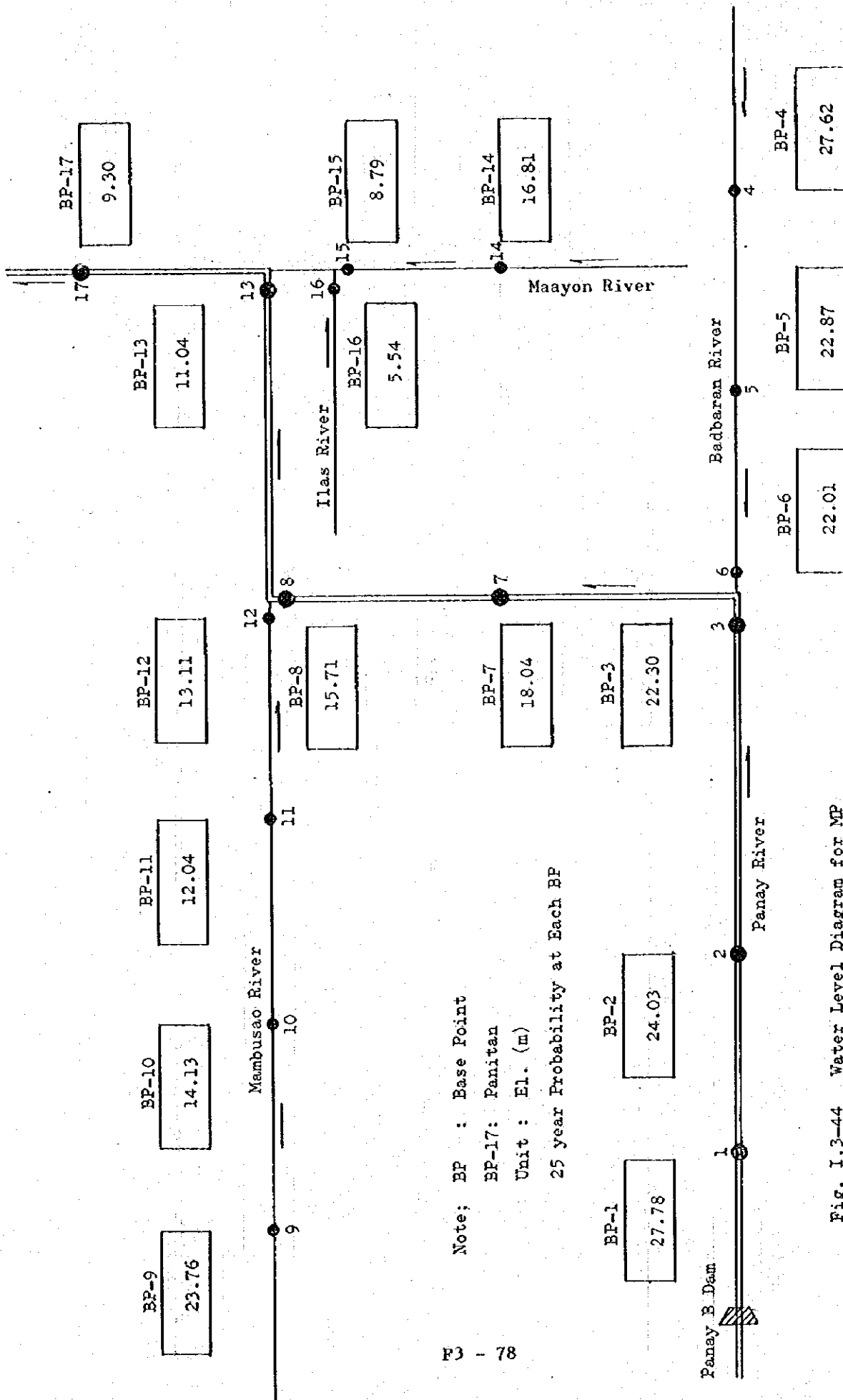
Note: BP : Base Point
 BP-17: Panitan
 Unit : El. (m)
 100 year Probability at Each BP; Case 2

Fig. I.3-43 Water Level Diagram for LP Alternative (4), 4 Dam, Case 2



Note; BP : Base Point
 BP-17: Panitan
 Unit : El. (m)
 25 year Probability at Each BP

Fig. I.3-44 Water Level Diagram for MF Alternative (1), Panay B Dam + Panay C Dam



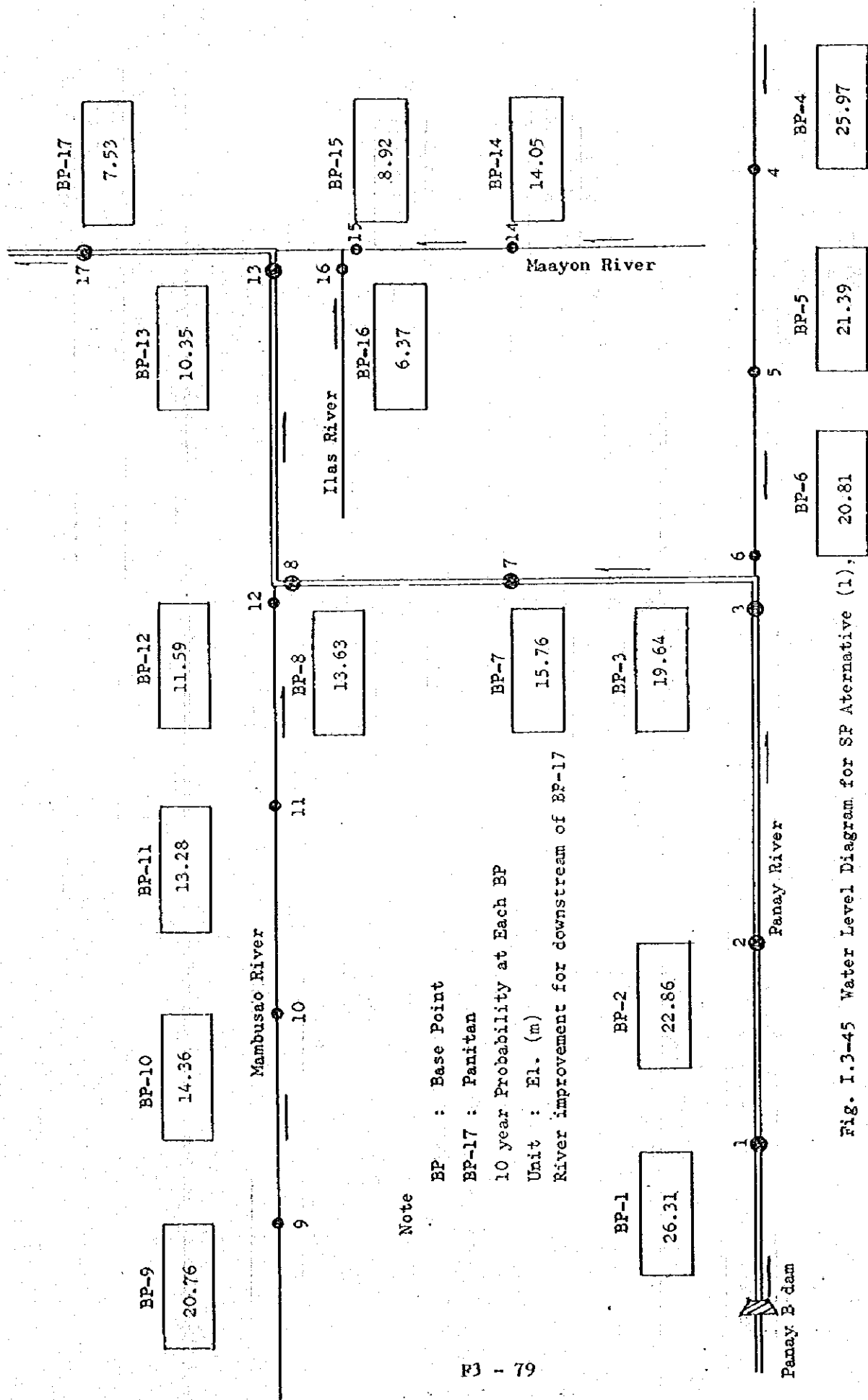
Note; BP : Base Point

BP-17: Panitan

Unit : El. (m)

25 year Probability at Each BP

Fig. I.3-44 Water Level Diagram for MP Alternative (2), Panay B Dam



Note

BP : Base Point

BP-17 : Panitan

10 year Probability at Each BP

Unit : El. (m)

River improvement for downstream of BP-17

Fig. I.3-45 Water Level Diagram for SP Alternative (1),

SP-1A, Panay B dam

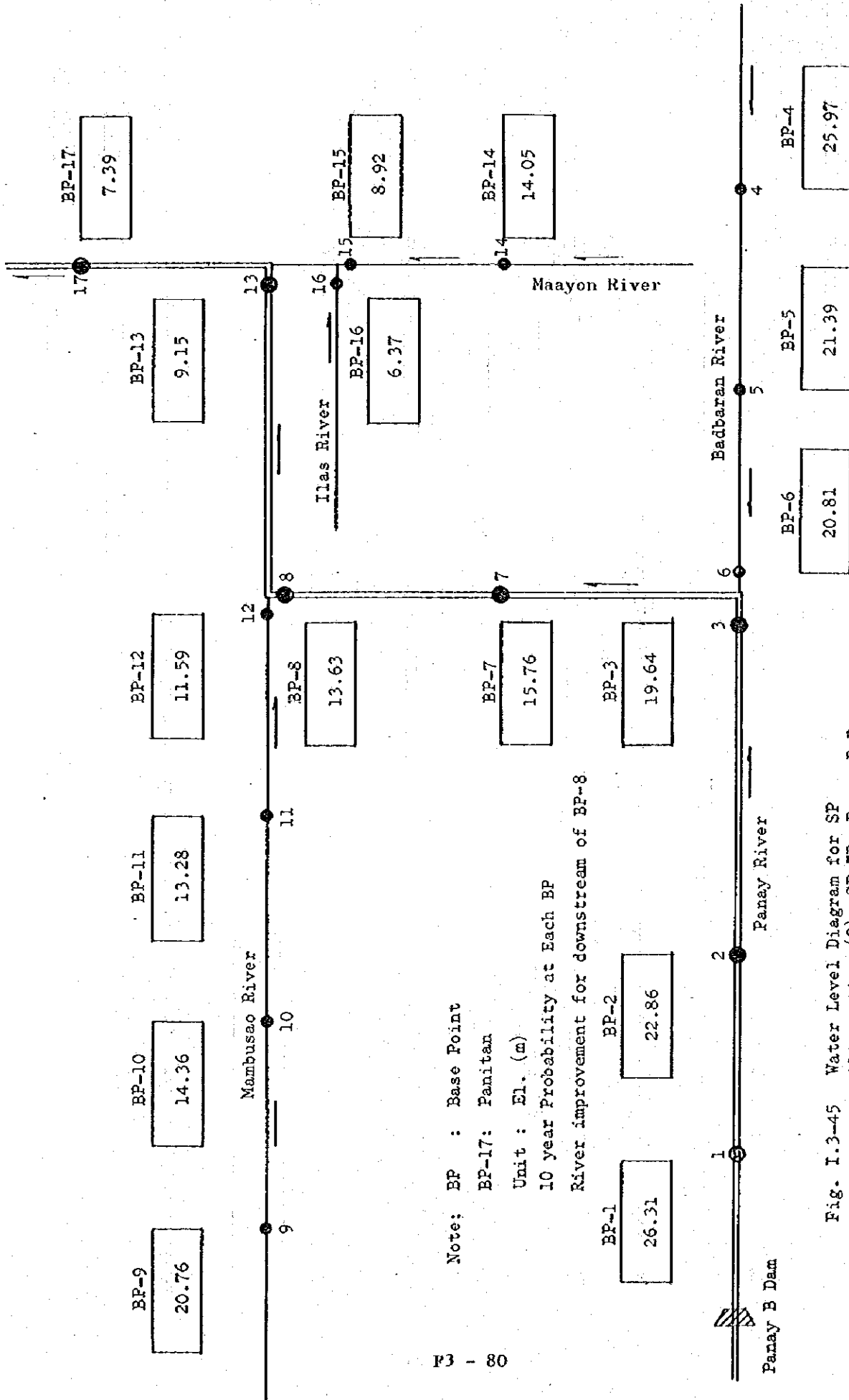
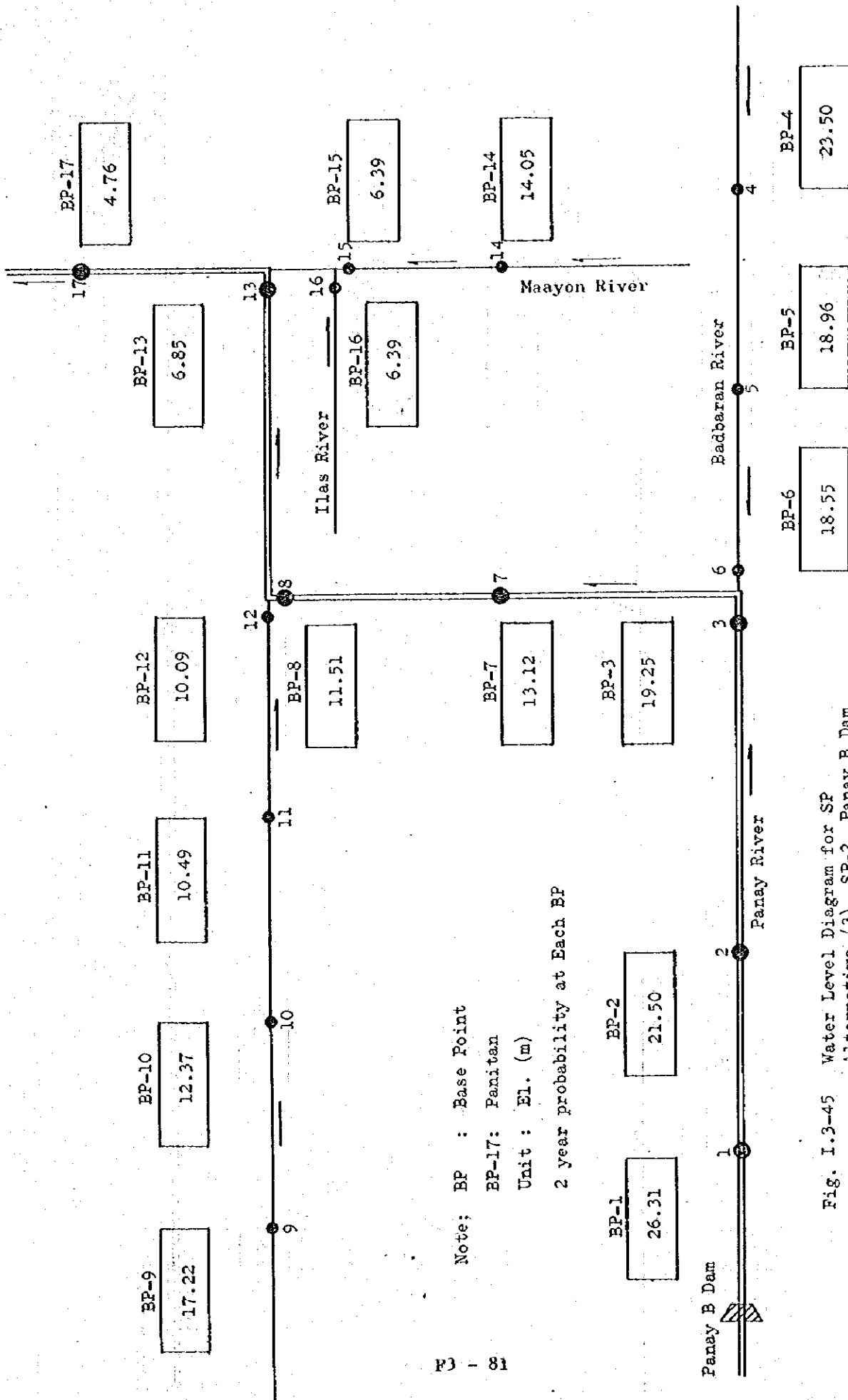
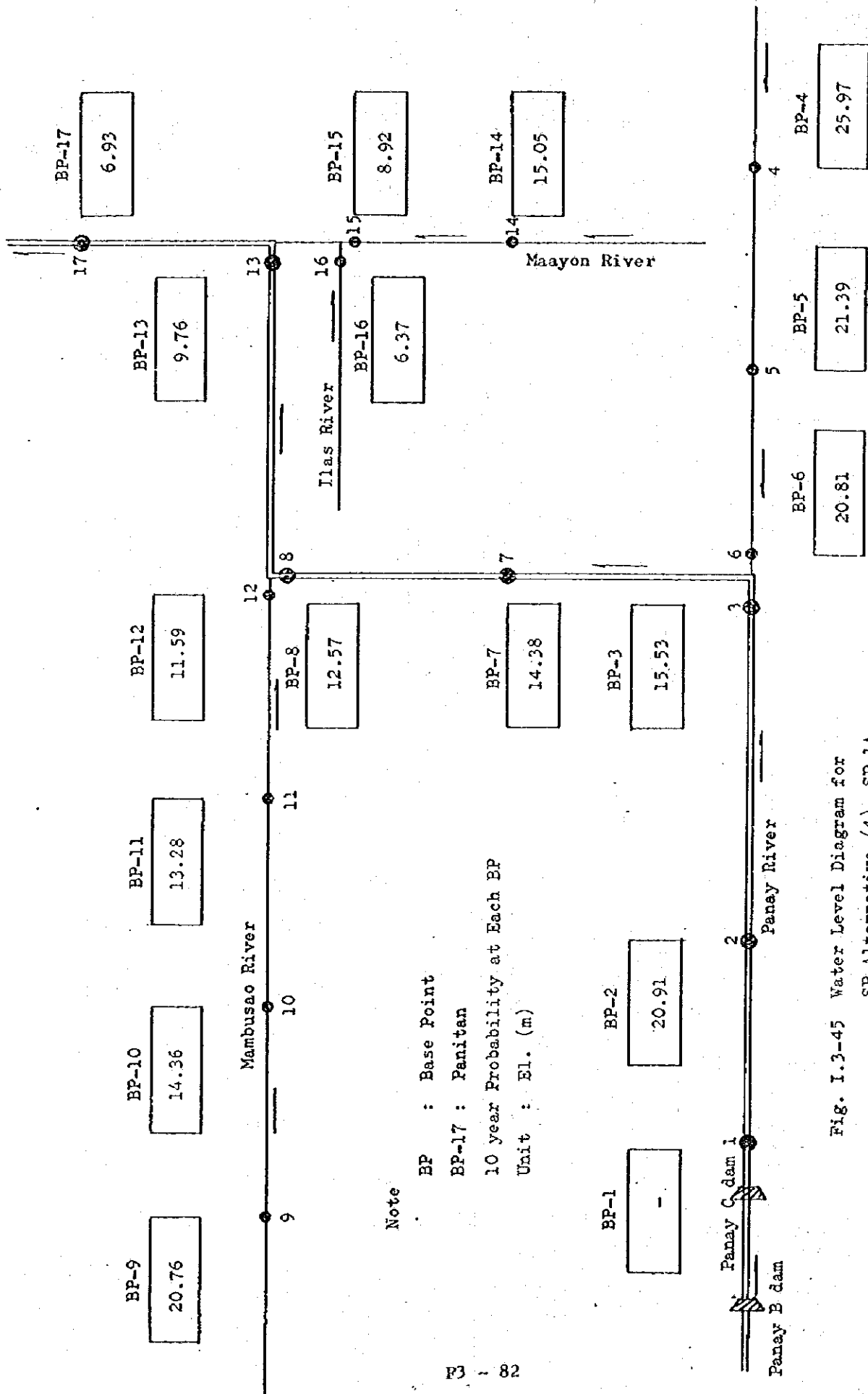


Fig. I.3-45 Water Level Diagram for SP Alternative (2), SP-IB, Panay B Dam



Note; BP : Base Point
 BP-17: Panitan
 Unit : El. (m)
 2 year probability at Each BP

Fig. I.3-45 Water Level Diagram for SP Alternative (3), SP-2, Panay B Dam



Note
 BP : Base Point
 BP-17 : Panitan
 10 year Probability at Each BP
 Unit : El. (m)

Fig. I.3-45 Water Level Diagram for
 SP Alternative (4), SP-1A,
 Panay B dam + Panay C dam

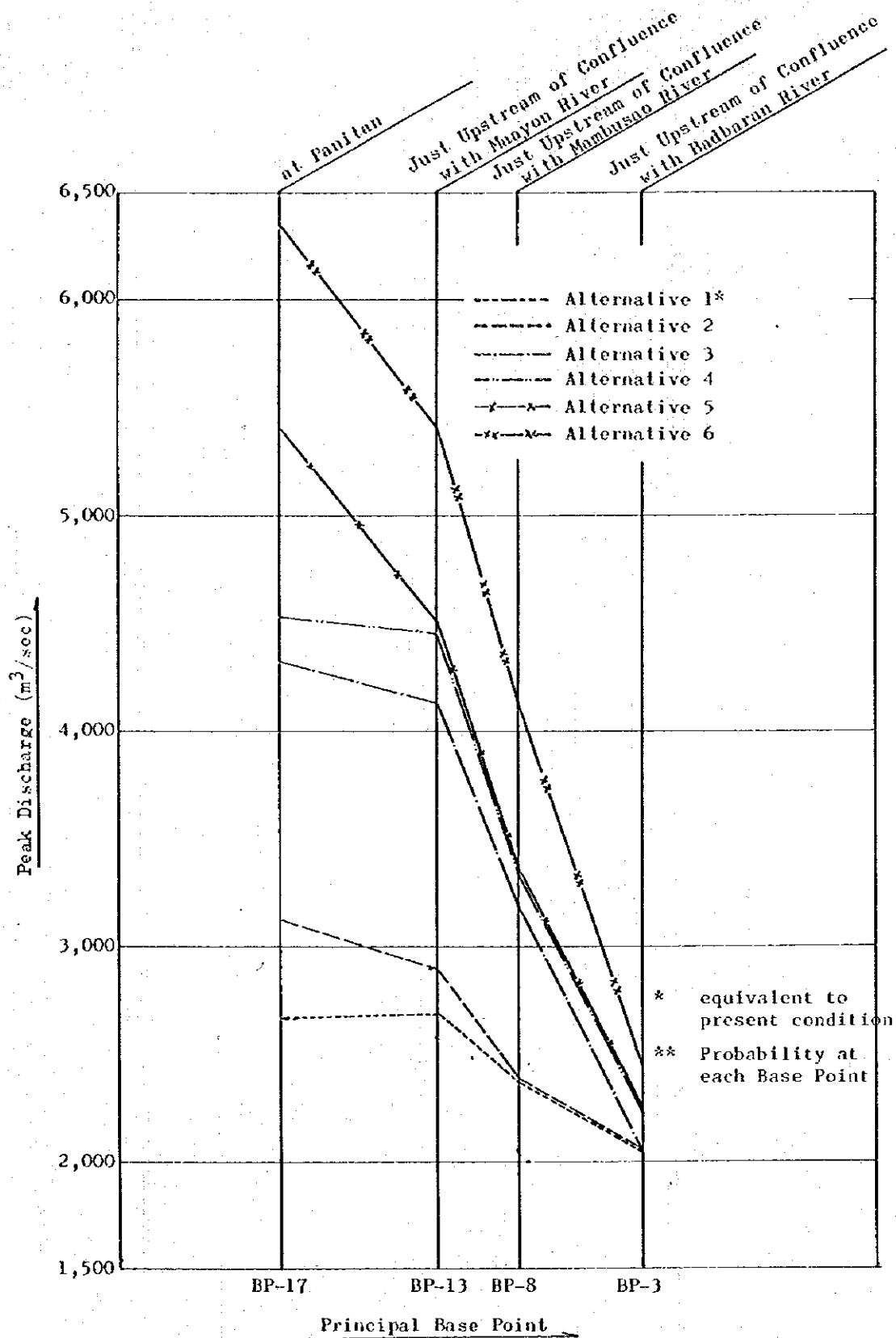


Fig. I.3-46 Peak Discharge at Base Points for Protective Areas Alternatives (100 year flood)**

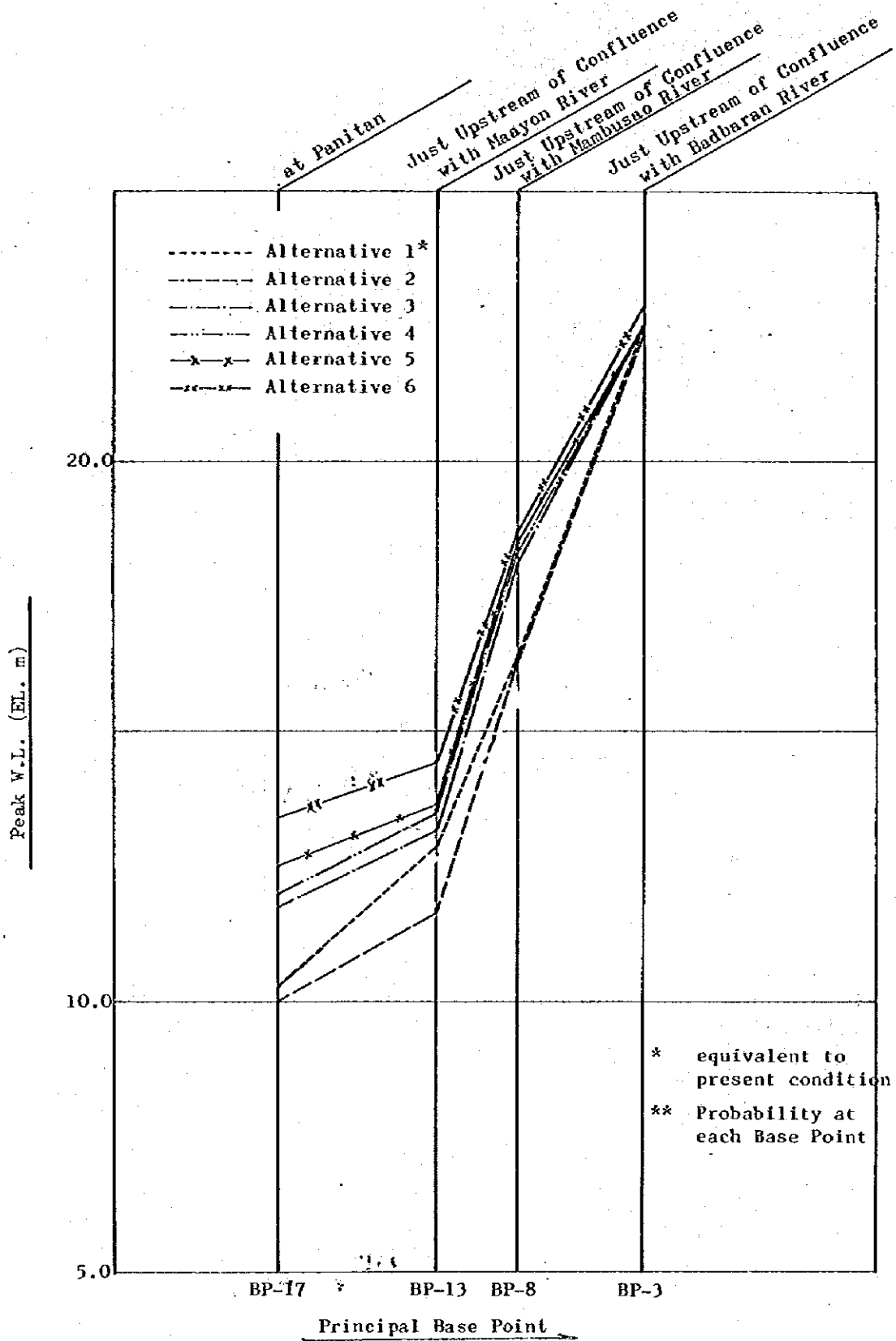
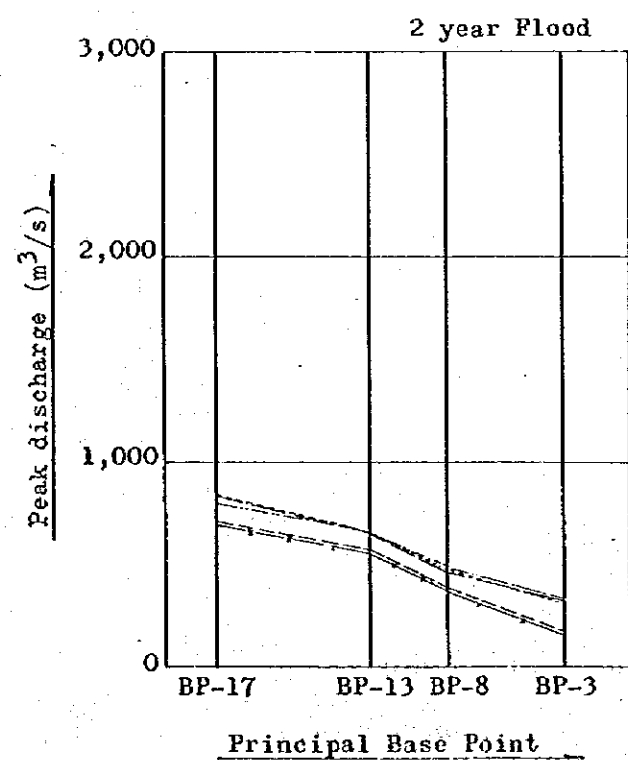
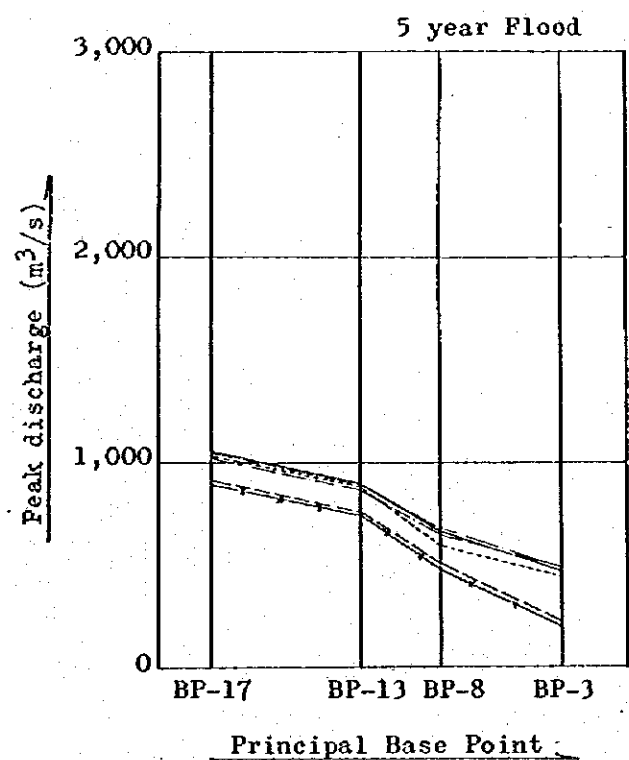
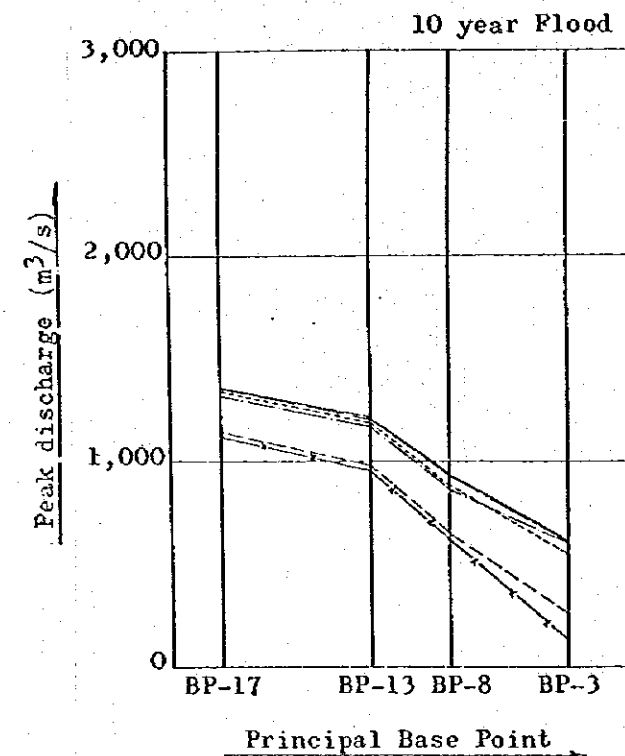
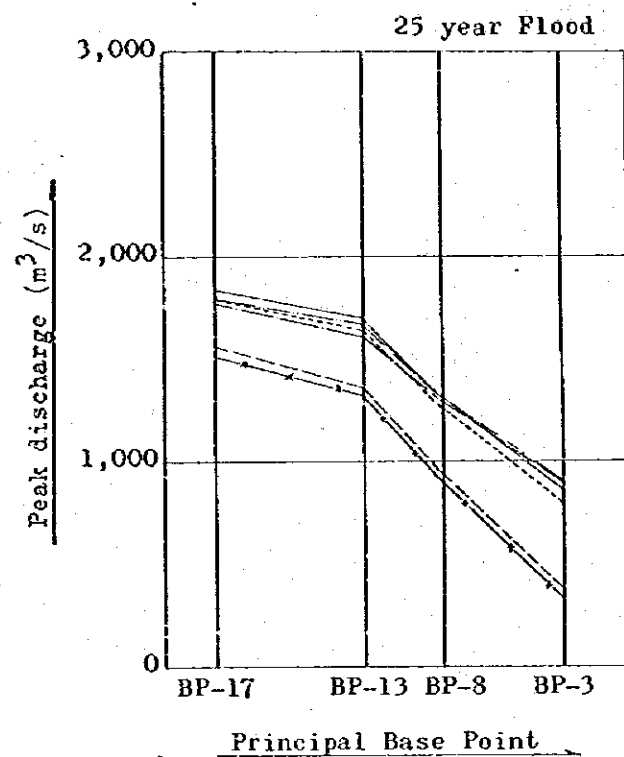
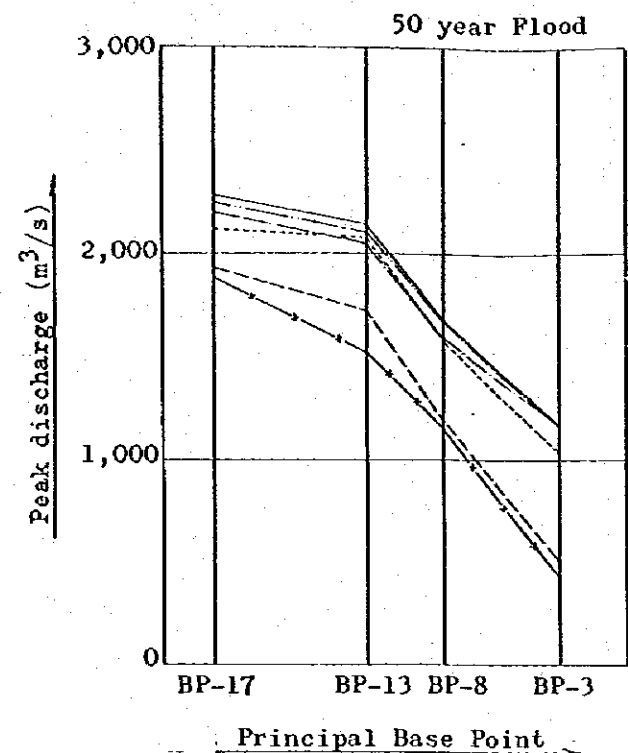
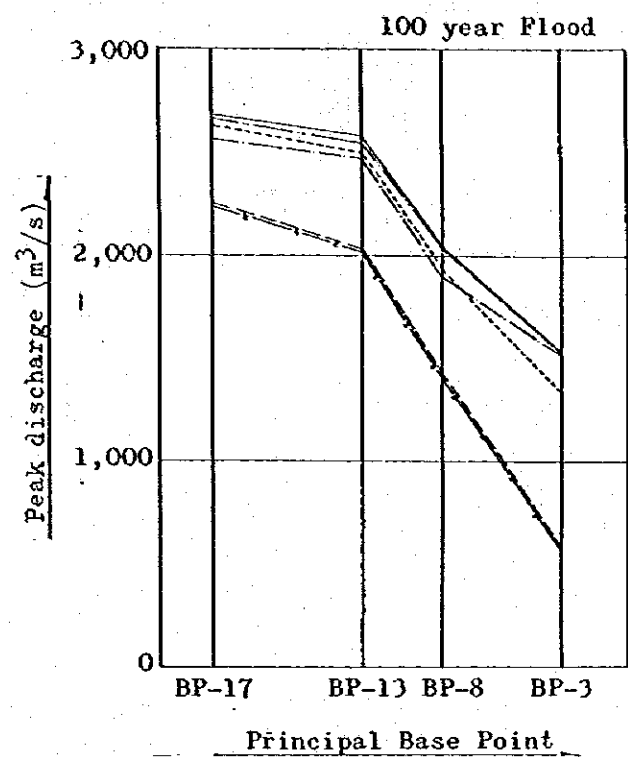


Fig. I.3-47 Peak Water Level at Base Points for Protective Areas Alternatives (100 year flood)**

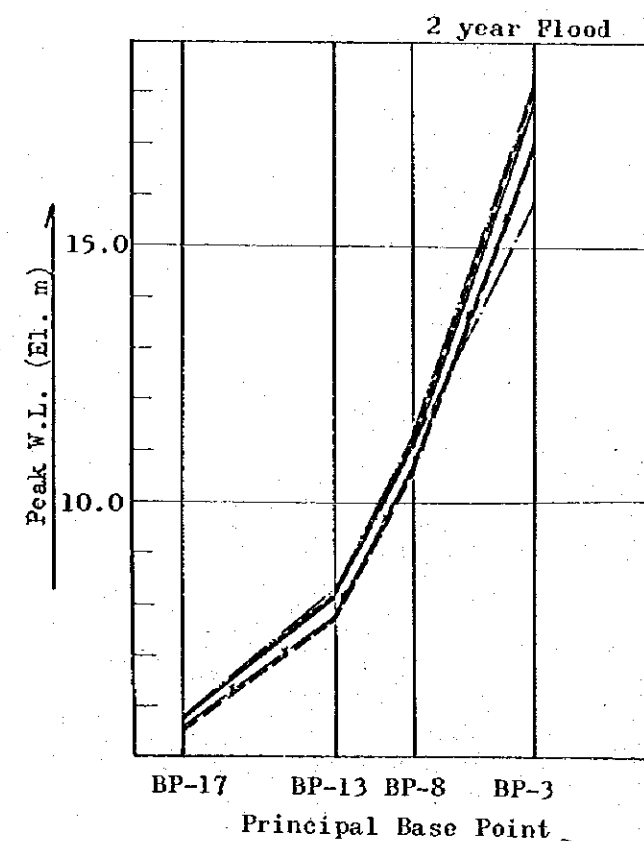
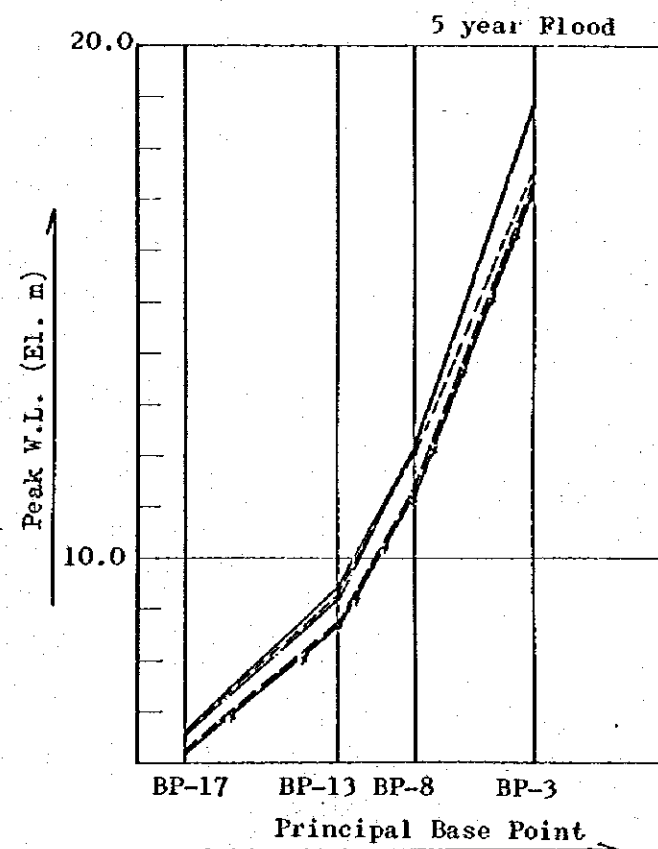
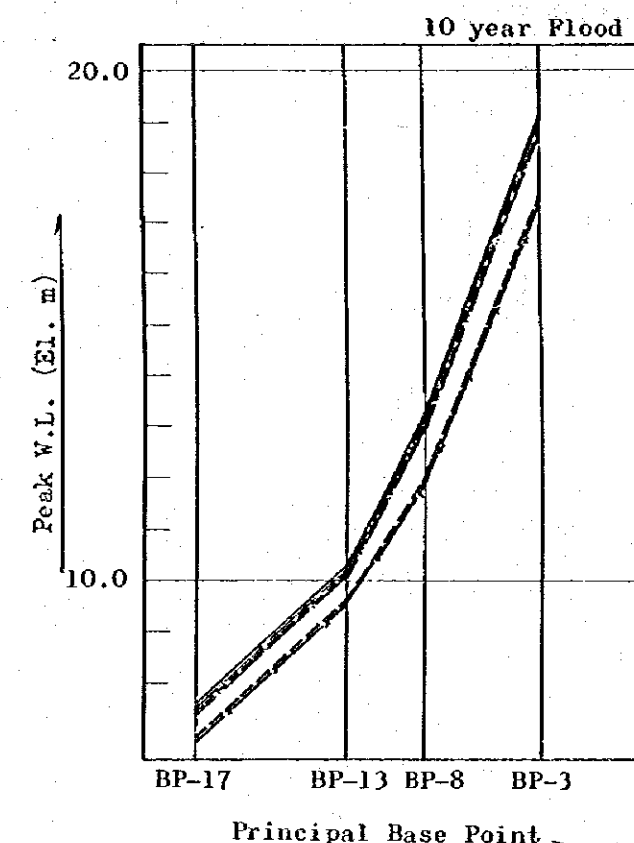
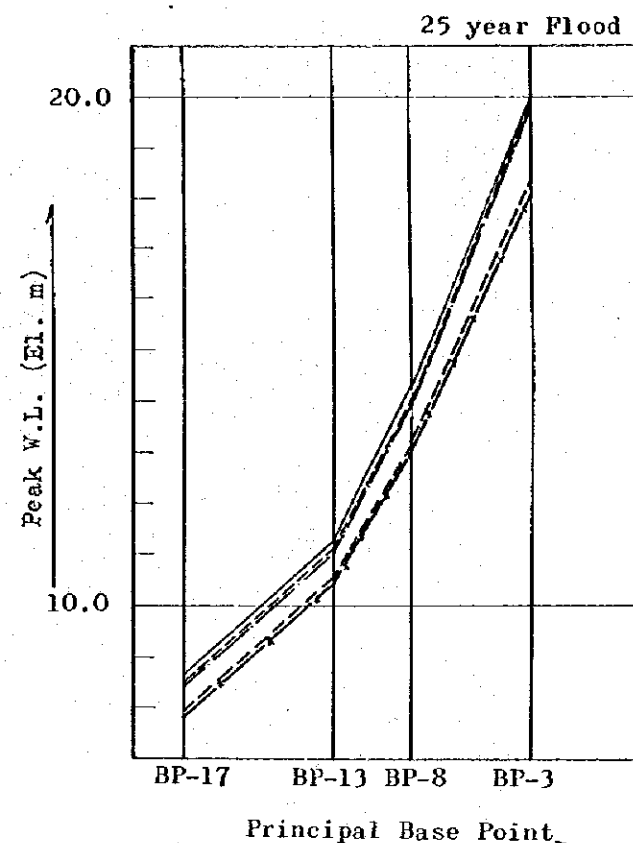
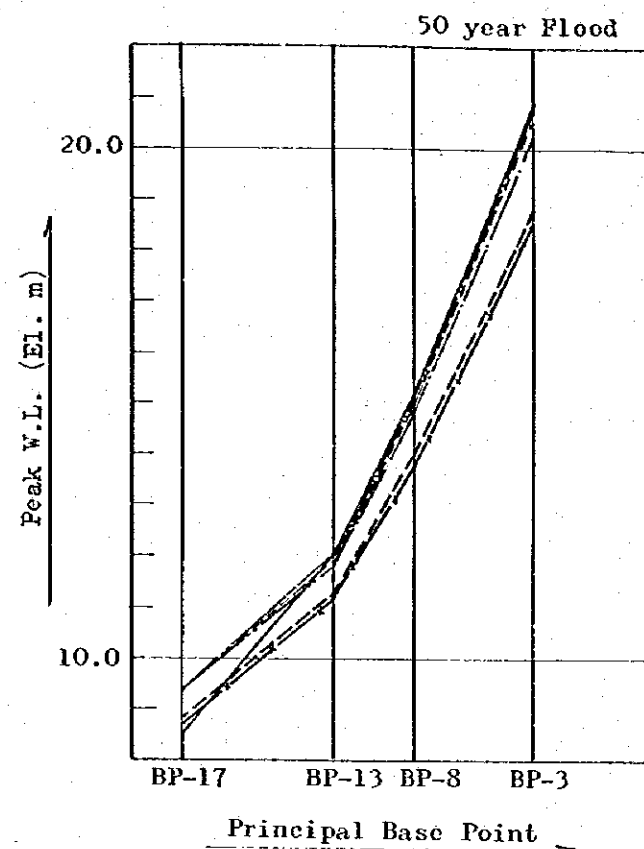
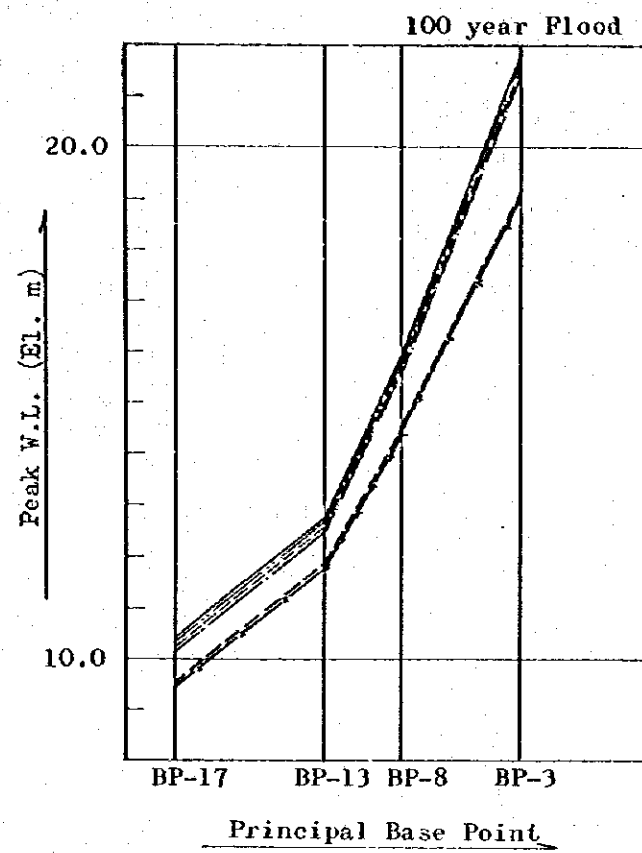


LEGEND

- Present
- - - - - Panay B dam
- · - · - Panay C dam
- · - · - Badbaran dam
- · - · - Mambusao dam
- x - x - Panay B dam + Panay C dam
- BP-17 At Panitan
- BP-13 Just Upstream of Confluence with Maayon River
- BP-8 Just Upstream of Confluence with Mambusao River
- BP-3 Just Upstream of Confluence with Badbaran River

Note: Probability at Panitan Base

Fig. 1.3-48 Peak Discharge at Principal Base Points of Dam Alternatives (Under the present river condition)

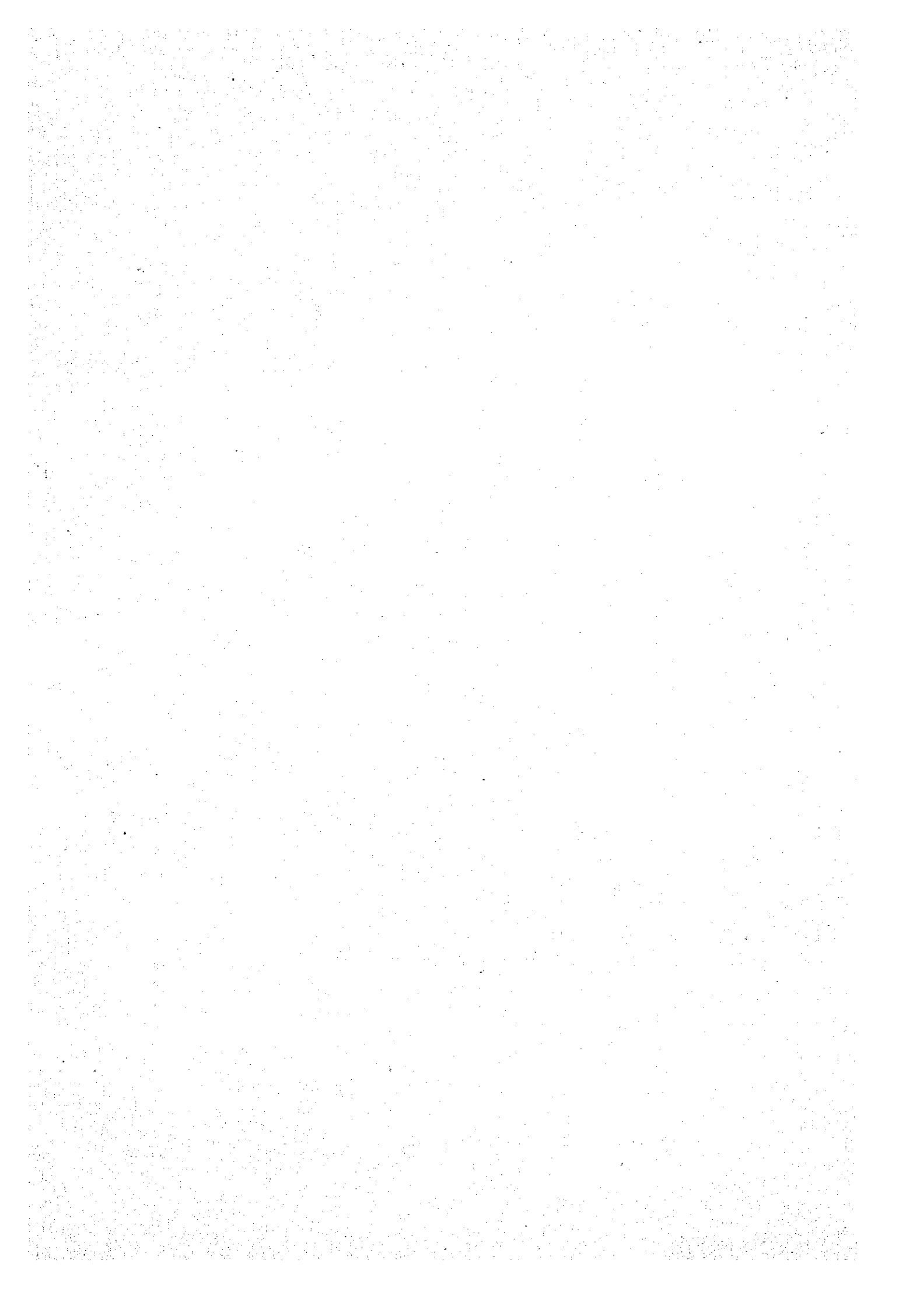


LEGEND

- Present
- - - Panay B dam
- - - Panay C dam
- - - Badbaran dam
- - - Mambusao dam
- x - x - Panay B dam + Panay C dam
- BP-17 At Panitan
- BP-13 Just Upstream of Confluence with Maayon River
- BP-8 Just Upstream of Confluence with Mambusao River
- BP-3 Just Upstream of Confluence with Badbaran River

Note; Probability at Panitan Base

Fig. I.3-49 Peak Water Level at Principal Base Points of Dam Alternatives (Under the present river condition)



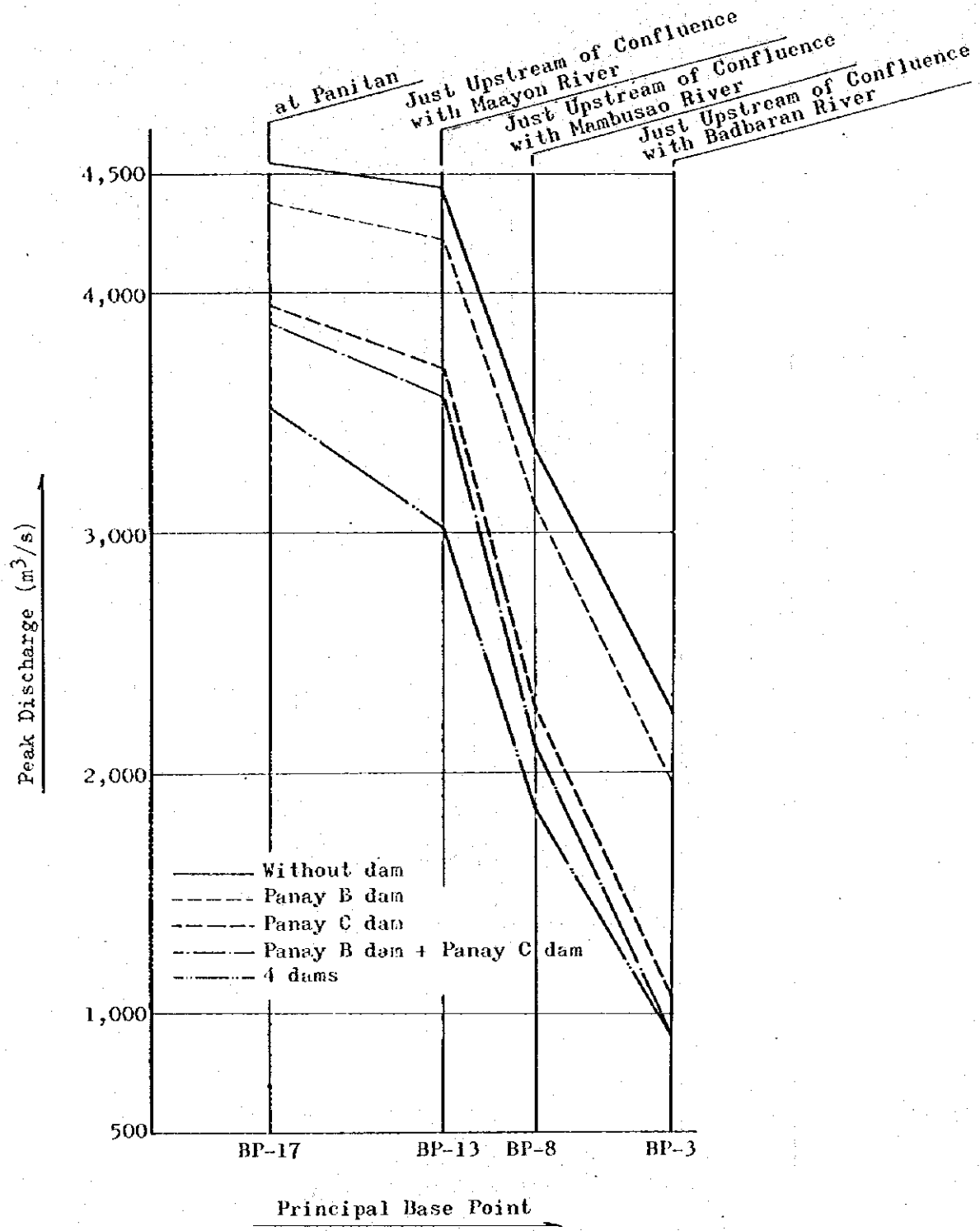


Fig. I.3-50 Peak Discharge at Principal Base Points along Panay River in LP Alternatives with Dam(s) (100 year flood)*

* Probability at Each Base Point

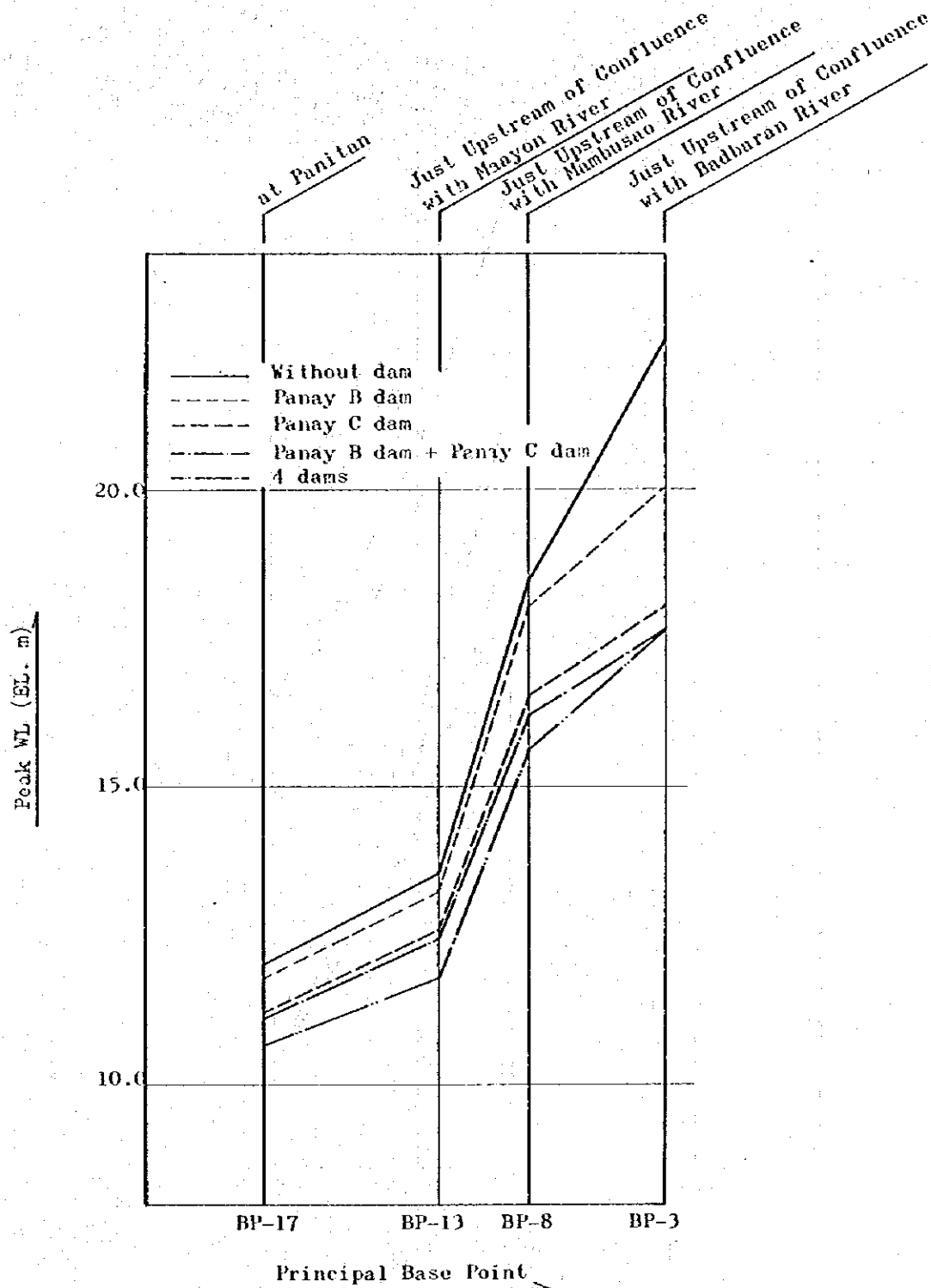


Fig. I.3-51 Peak Water Level at the Principal Base Points along the Panay River in LP Alternatives with Dam(s) (100 year flood)*

* Probability at Each Base Point

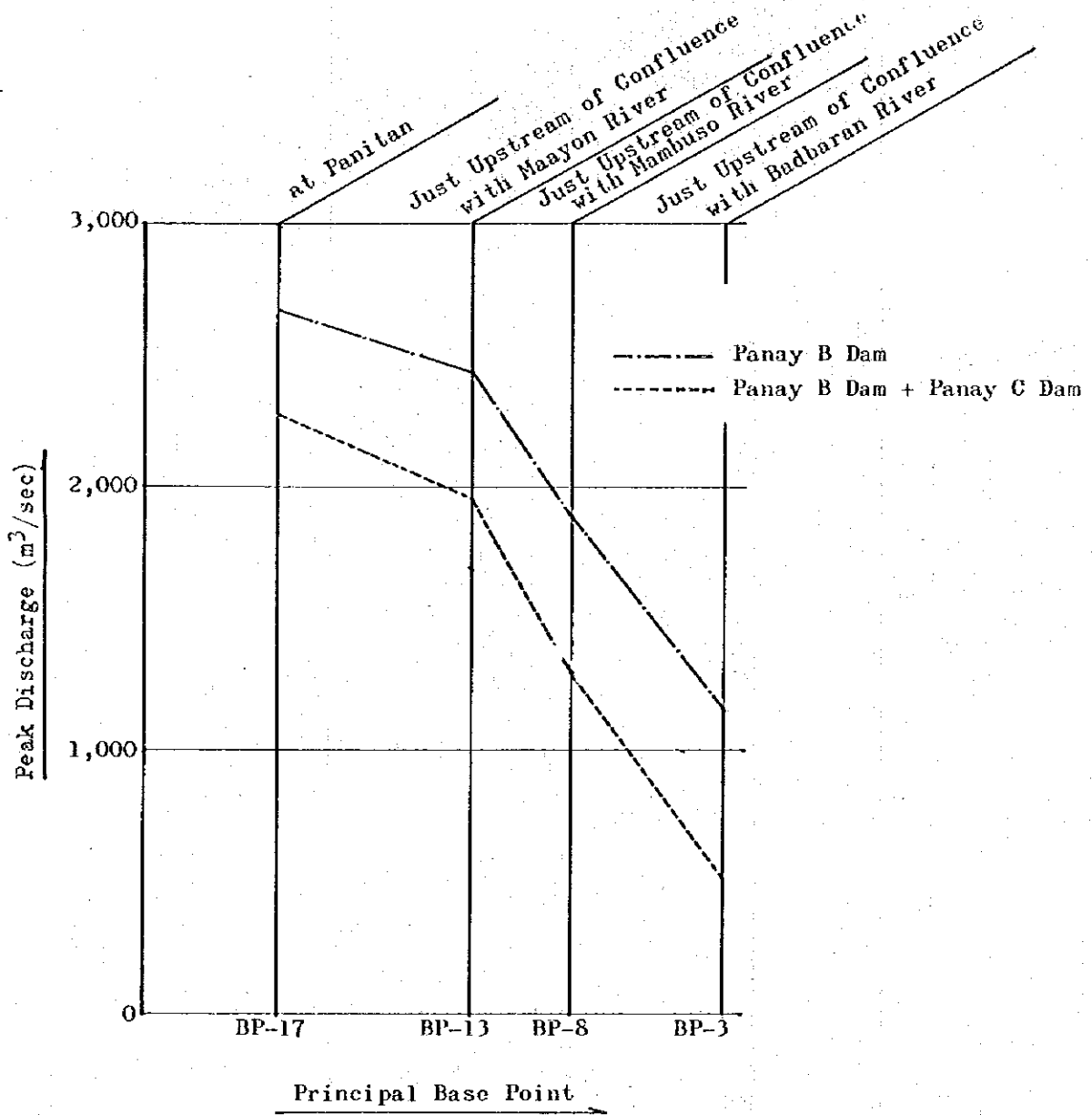


Fig. I.3-52 Peak Discharge at Base Points for MP (25 year flood)*

* Probability at Each Base Point

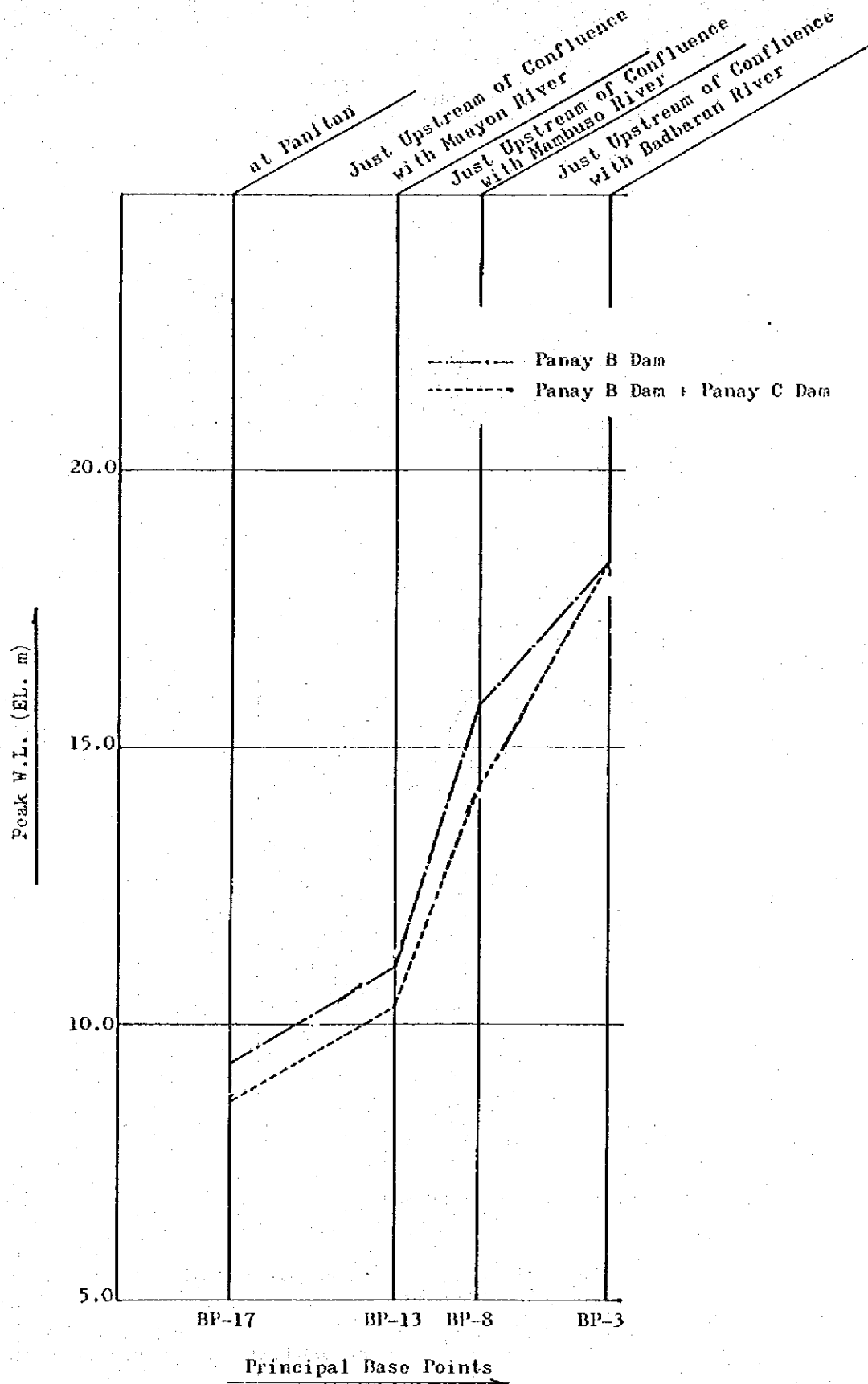


Fig. 1.3-53 Peak Water Level at Base Points for MP (25 year flood)*

* Probability at Each Base Point

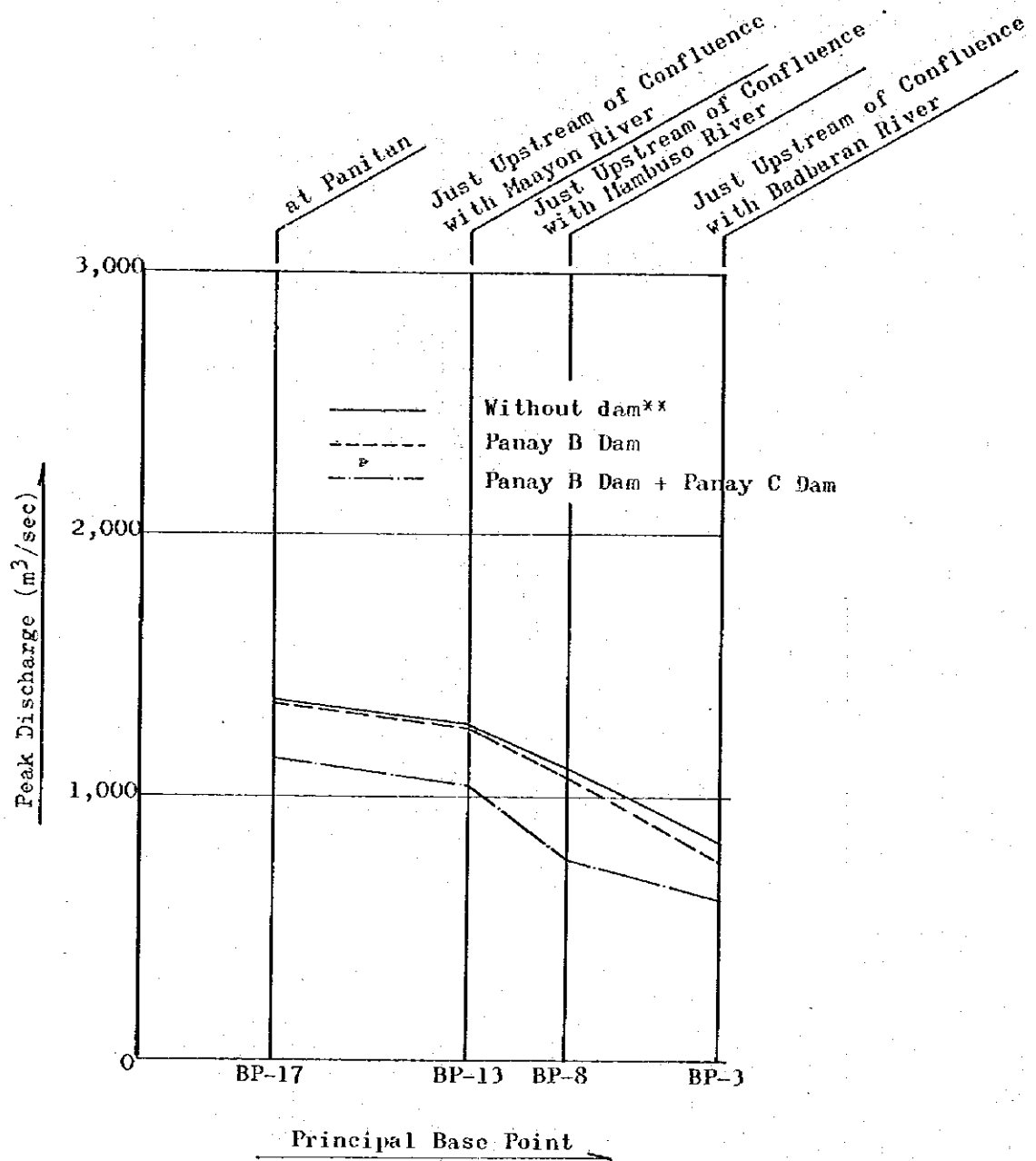


Fig. I.3-54 Peak Discharge at Base Points for SP (10 year flood)*

* Probability at Each Base Point

** Equivalent to Present Condition

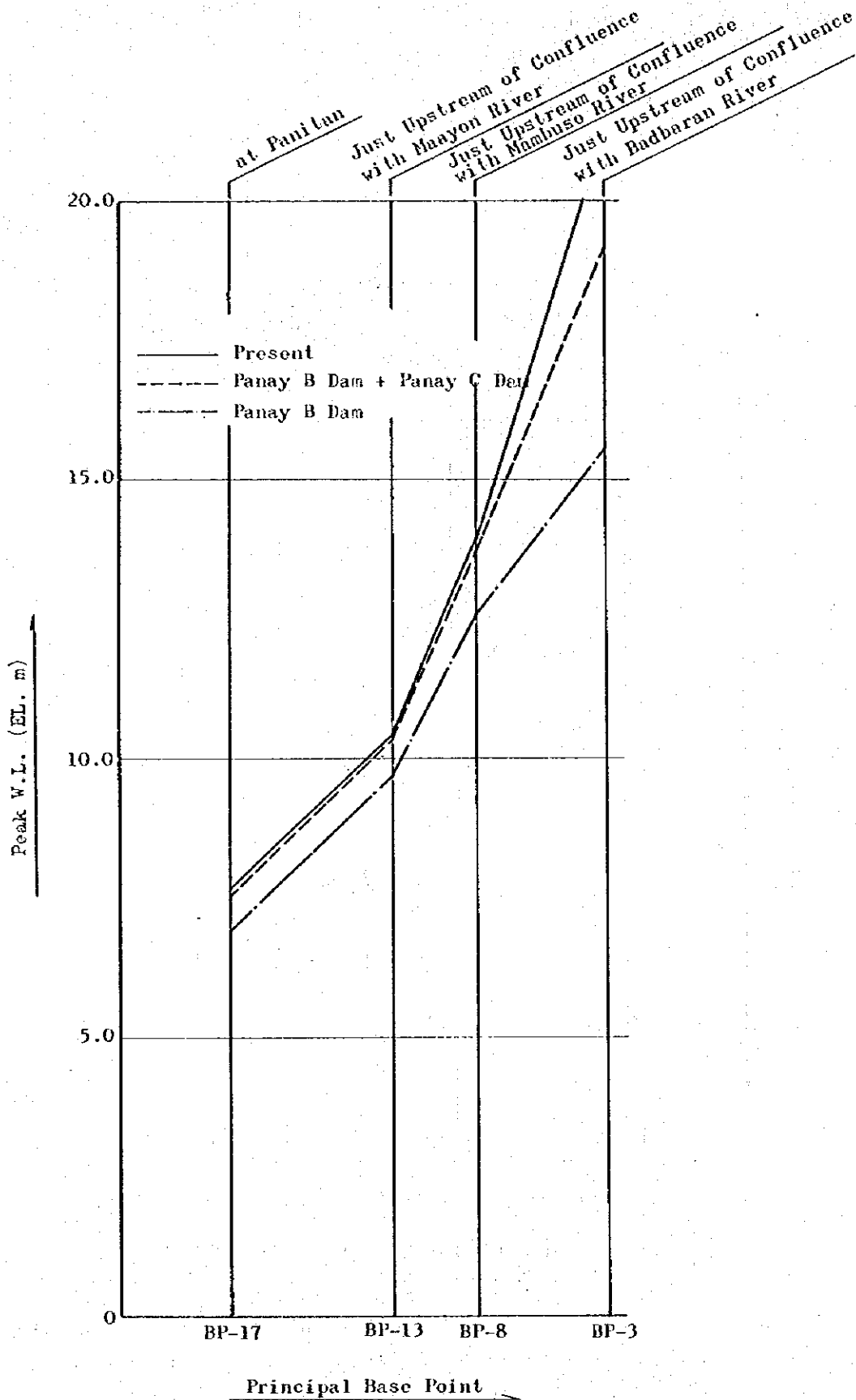


Fig. I.3-55 Peak Water Level at Base Points for SP (10 year flood)*

* Probability at Each Base Point

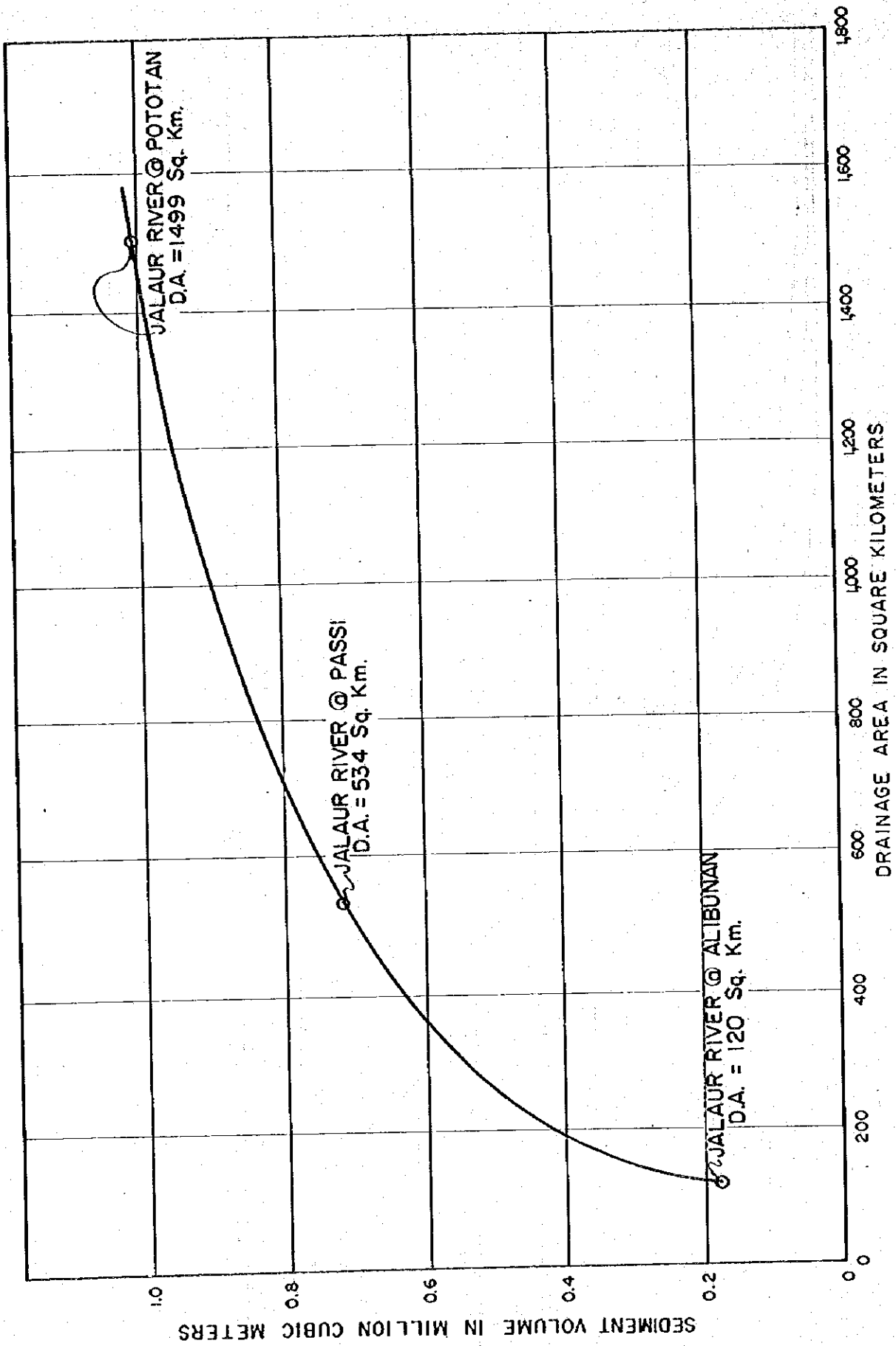


Fig. I.4 - 1 Jalore River, Rating Curve of Sediment Yield and Drainage Area

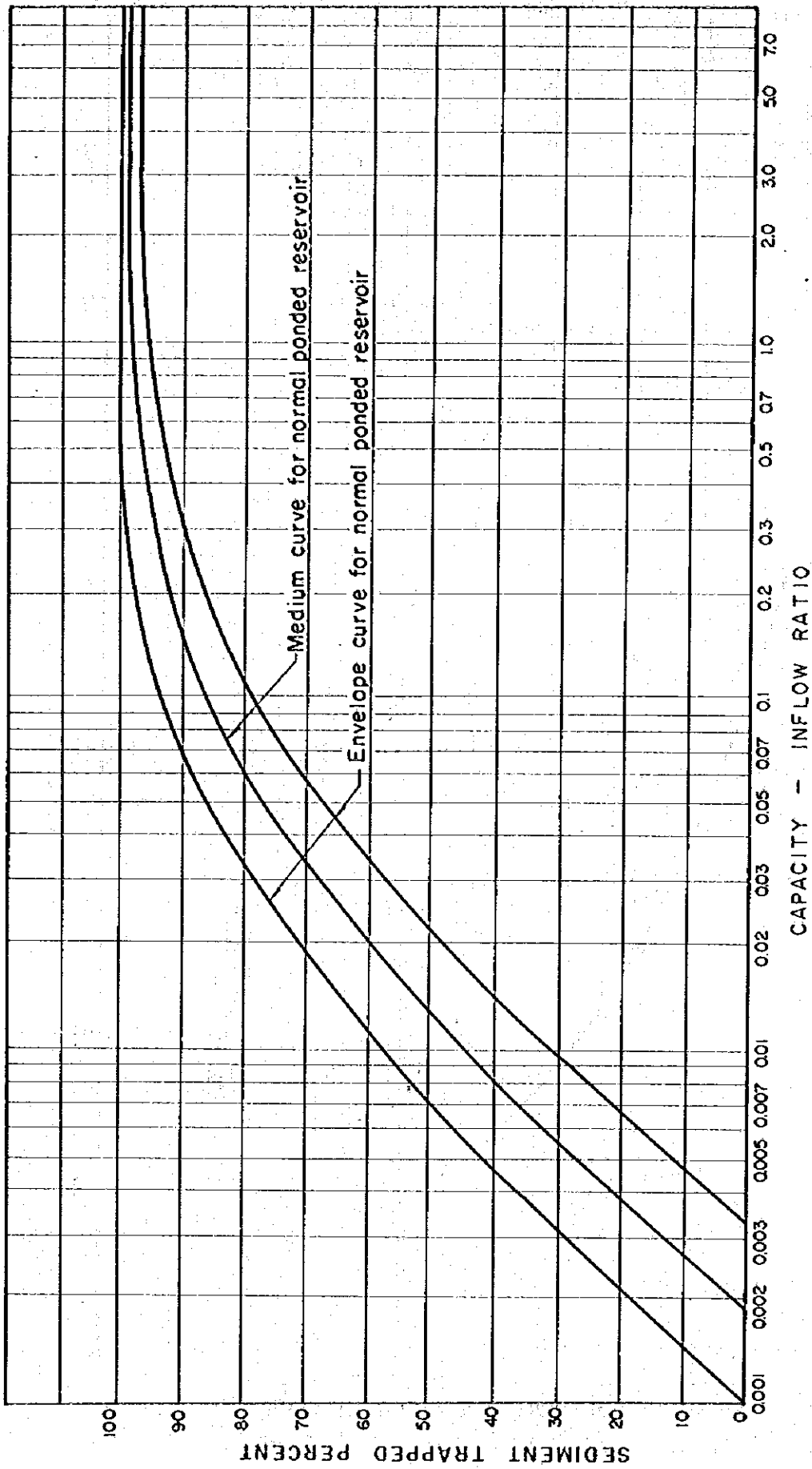


Fig. I.4 - 2 Gunnar Brune Curve