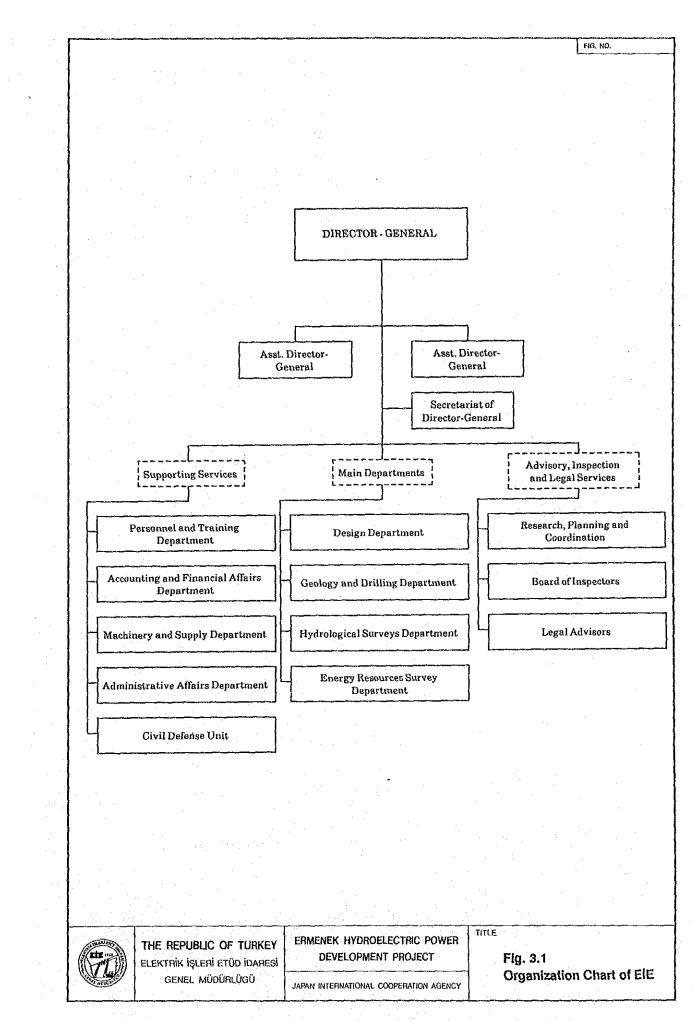
Work Item	May	June	July	19 Aug.	89 Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	1990 Mar.	Apr.	May
1. Access facilities (EIE)	may	June	auty	nug.	Cept.		1.0%.	<u></u>	<u>oan</u>	1.00.	ITACAL .		
 Access facilities (EAE) (1) Road to tunnel portal 			-YCo	mpleted	ļ			180m					
(2) Tunnel to I-Cb dam axis	[-		134m	- 7	Comple	ted			
(3) Path to I-Cc on left wall		1	Į.	ļ			Comple	ted		l i			
(4) Path to 1-Ce on right wall	· .			72.		Com	pleted						
(5) Boat to T-Cc		1	1946	Con	pleted	ļ		\					
2. Topographic survey (EIE)					I-Ca &	-СЬ	I-Cc						
(1) I-C dam site (1/1,000)	1) <u></u>				-	-	Comple	ted				
(2) Tailrace outlet (1/500)	Į .	l		ļ	Į –		╞╸し	Compie	ecu				
(3) Outdoor switchyard (1/500)				[1		नगः।						
(4) Erik div. weir (1/500)	- { · · · ·	{ · ·	}										
3. Geological Investigations													
3.1 Boring (BIE)			fermin	ted due	lo jamn	ing							
(1) 1-C dam site		1		,	190.80	•	1						
- SK-309 (300m)					130.00	ľ		l ír	tunnel	169.7	5m, Cor	noleted	
- SK-310 (100m)		1]	1]	1)		425.1			
- SK-313 (300m)				Į –	l					450	5m]		
- SK-314 (300m) (2) Landslide area								f					
- SK-220 (100m)		-	-	-	150	m, Com	picted	1	ļ	l			
- SK-221 (100m)			7	78m, C	omplete	1	<u> </u>	L					
(3) Quarry site			٦ (59m,	Comple	ed	1			1			
- SK-311 (50m)	i i		ե		1.	50m,	Comple	d -					
- SK-312 (50m) (4) Powerhouse & tailrace		╂╍───		<u> </u>	} `		Ter	minated	at 341	6m due l			
-SK-102 (350m)						-		chine lit			Ĩ I		
- SK-106 (80m)				Task 7		90		1	ted 50m				
- SK-107 (50m)	- .		ļ		ļ				79-0 '	 Pormine	out bot	o jamo	ling
- SK-108a (260m) - SK-108b (240m)										103n	ted due 201-2	Dm, Con	plete
- 5K-1000 (24011)		÷	 	}	<u> </u>	↓	<u> </u>	}					
3.2 Seismic exploration (EIE)	· ·			1				I .		1	· ·		
(1) I-C dam site]		1]]	}			
- Line DA (1,200m)		199		(_		[(ι.	Į	ļ			
- Line DB (1,200m) - Line DC (910m)				"]		ł				
- Line DD (690m)	· {	-			!	{	{	ļ .	}				1
(2) Land slide area					· ·			1					
- Line LA (1,600m)) *		}	1		1			1 ·			
- Line LB (1,000m)			1	Ì	*	1							
- Line LC (1,000m) (3) Powerhouse & tailrace		╞──▀			<u>}</u>	·	} <u> </u>	ł	}	┣_━─			
(3) Powernouse & tainace - Line PB (1,000m)	1	l				1	1.			[
- Line PC (1,200m)				James				Í		·			
(4) Supplemental		1				t7 Com	pleted						
exploration							pieceo		7				
(5) Analyses by EIE	}	<u>}</u>	1		<u>i</u>			1					
3.3 Geological mapping (EIE & JICA)	-1	1			1	[
(1) Dam site, powerhouse, etc.	1.	Ì	ł]	1	1 .	1	1-C Da	msite &	Erik int	ake	
(1/1,000 & 1/500)				h		-				Comple	ted		
(2) Others (1/5,000)	`			Complet	ea		L	L					
3.4 Material tests (EIE)					Co	npleted	1.	1					
(1) Sampling in field	1		·				1			Ļ			
(2) Laboratory tests		<u> </u>											
3.5 Test adit (EIE)								·	Anne	Compl	eted		
3.6 Seismic study (EIE) (Earthquake)		[·.											
4. Hydrological survey (EIE)							ļ					up to .	\ug '9
5. Power survey (EIE & JICA)	1	1				-	Comp	deted					
	1					Compl	eted						
Compensation survey (EIE)		4.1											
3. Compensation survey (EIE) 7. Environmental survey (EIE)		1					- 7C	mpleted					

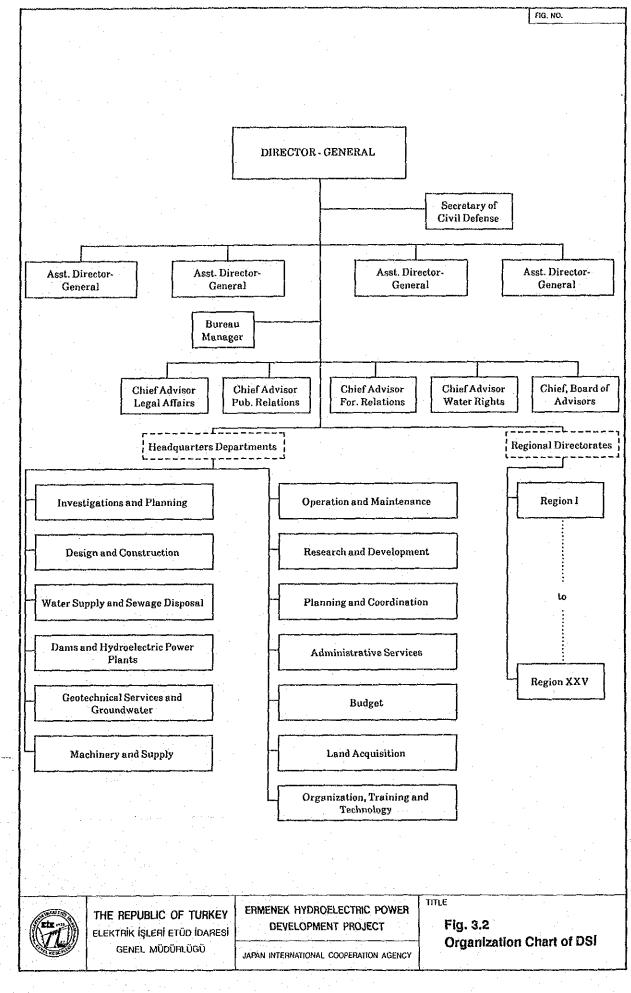
Actual progress

Fig. 1.4 Work Records of Additional Detailed Investigation

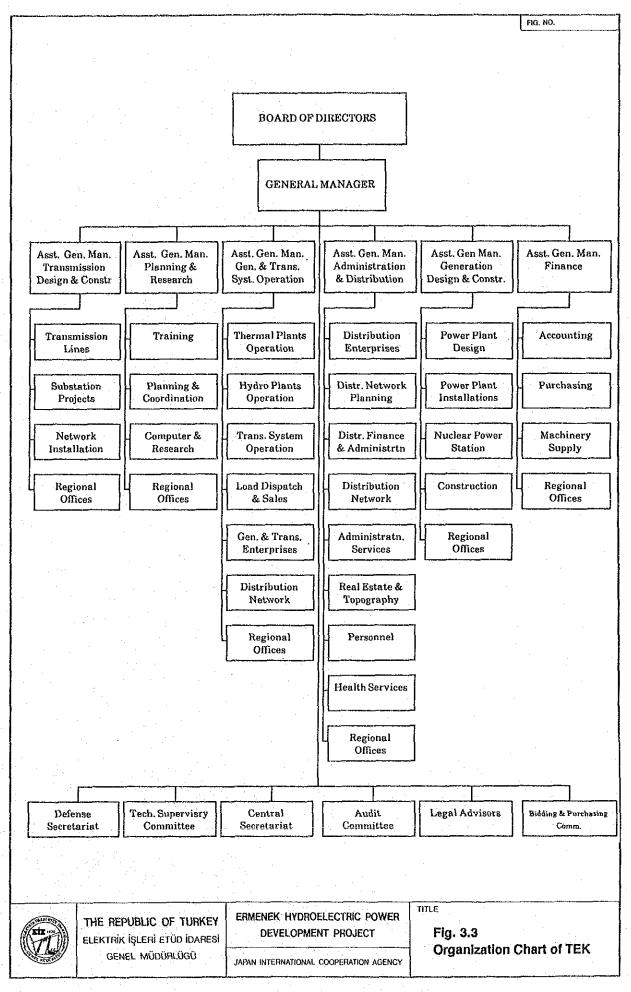
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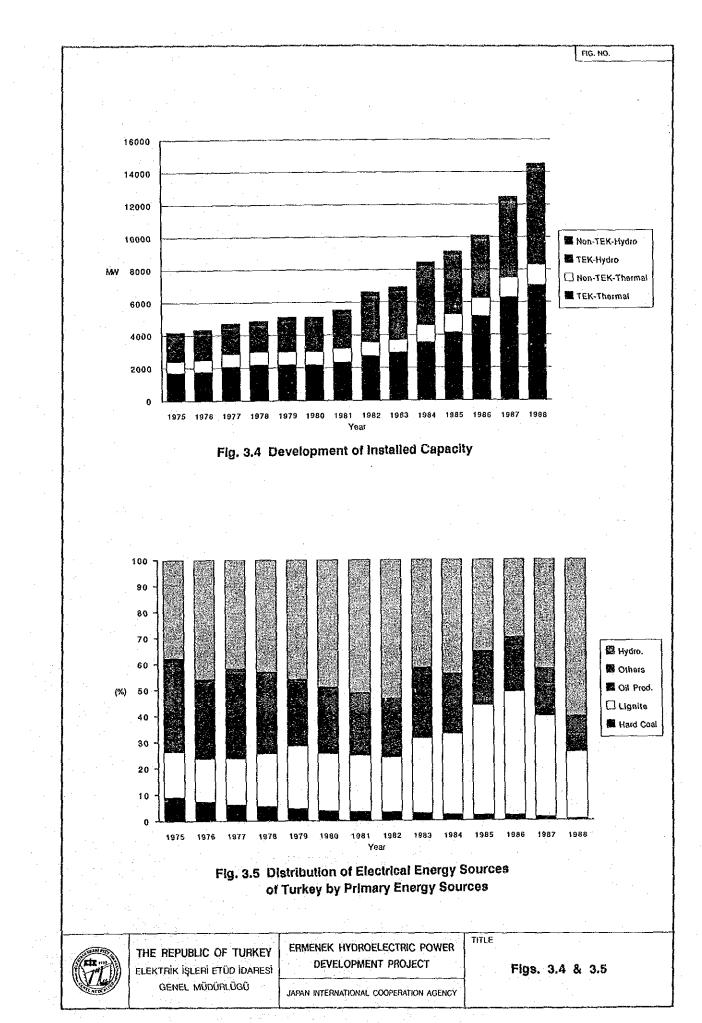
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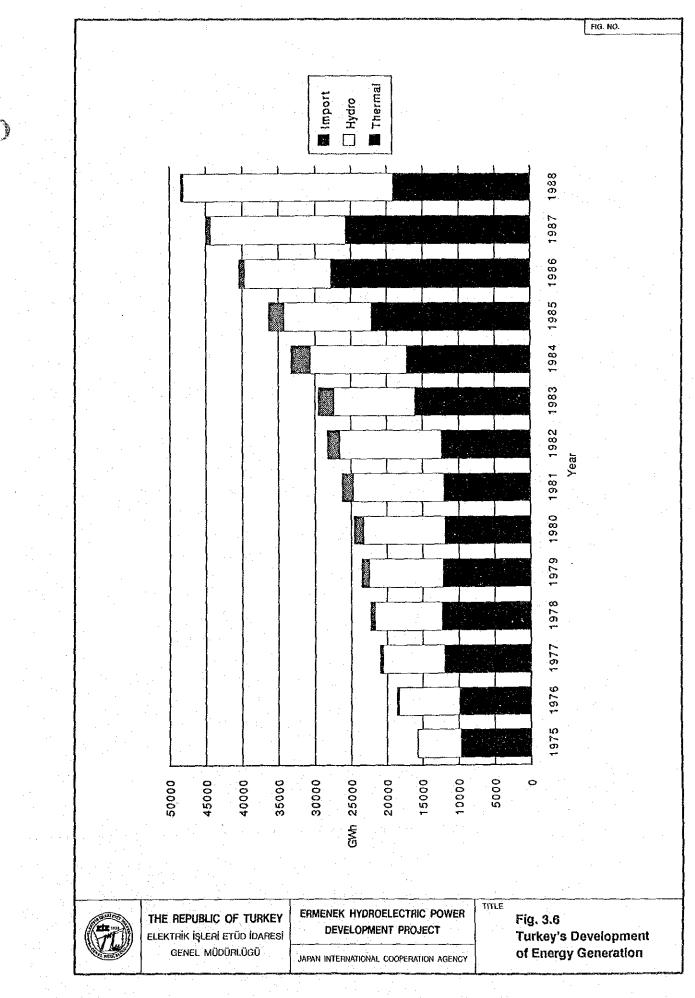
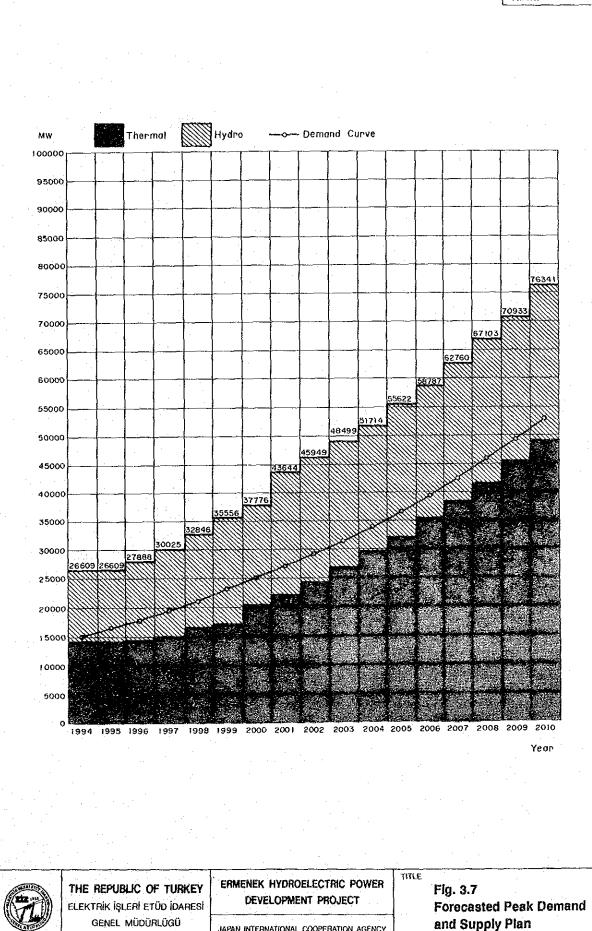
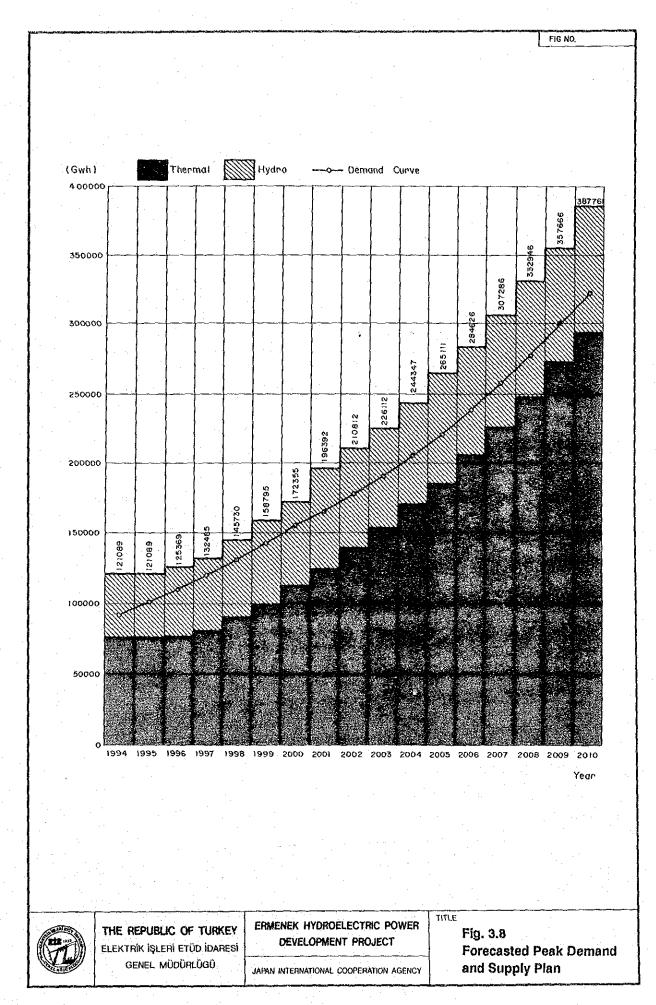


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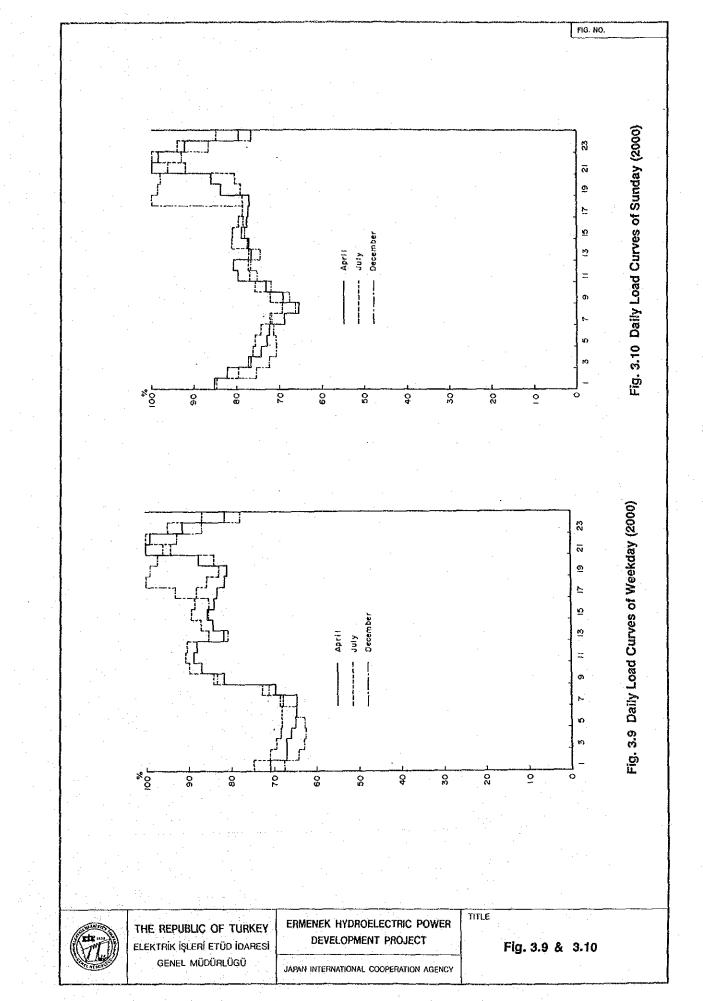


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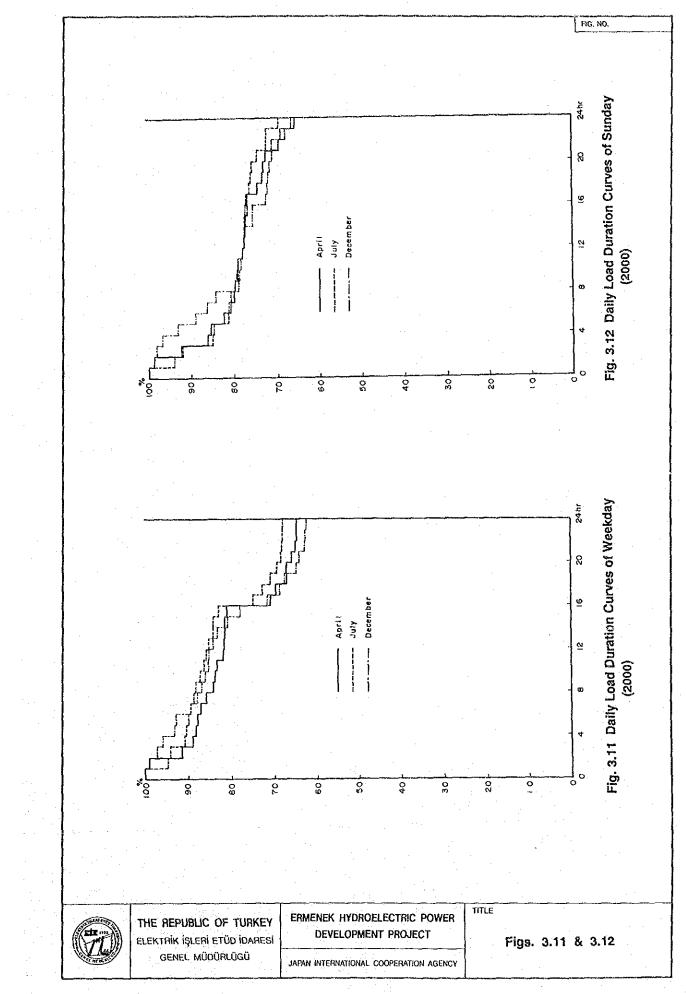
JAPAN INTERNATIONAL COOPERATION AGENCY



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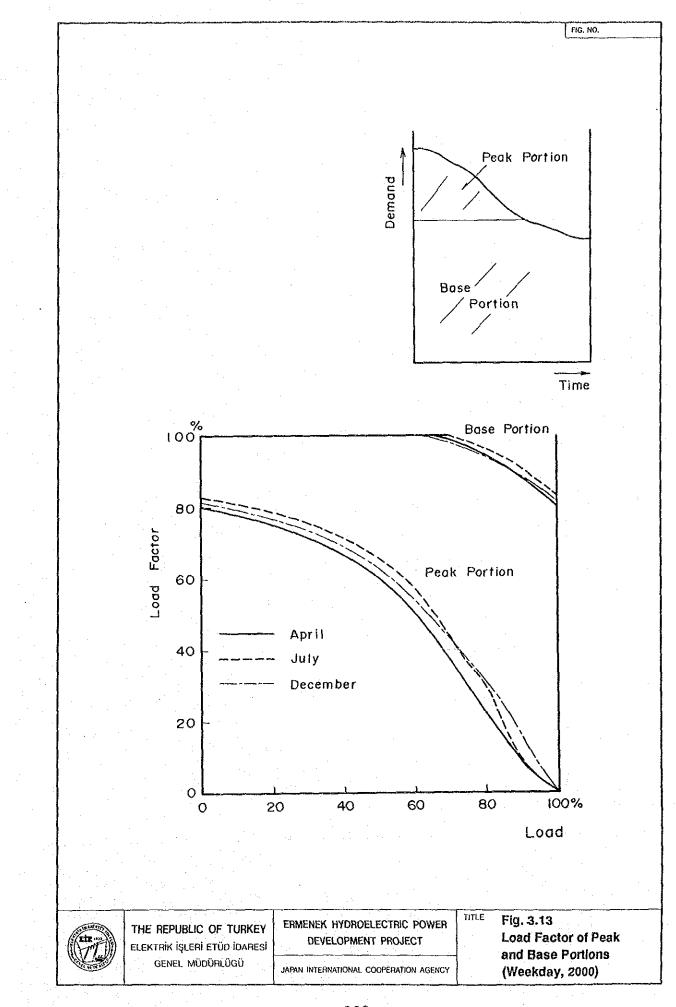
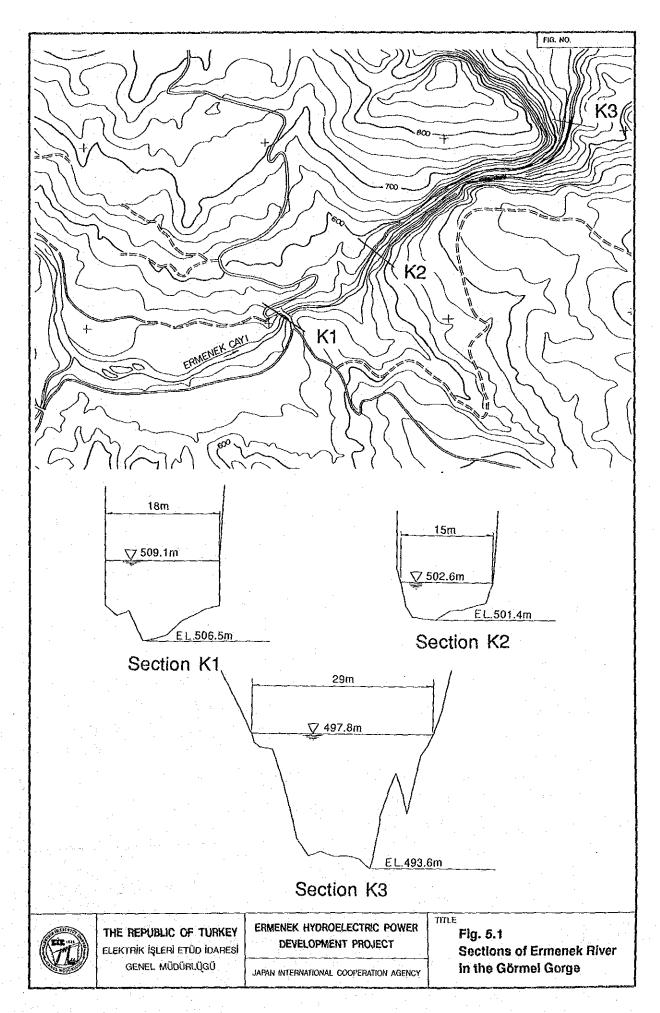
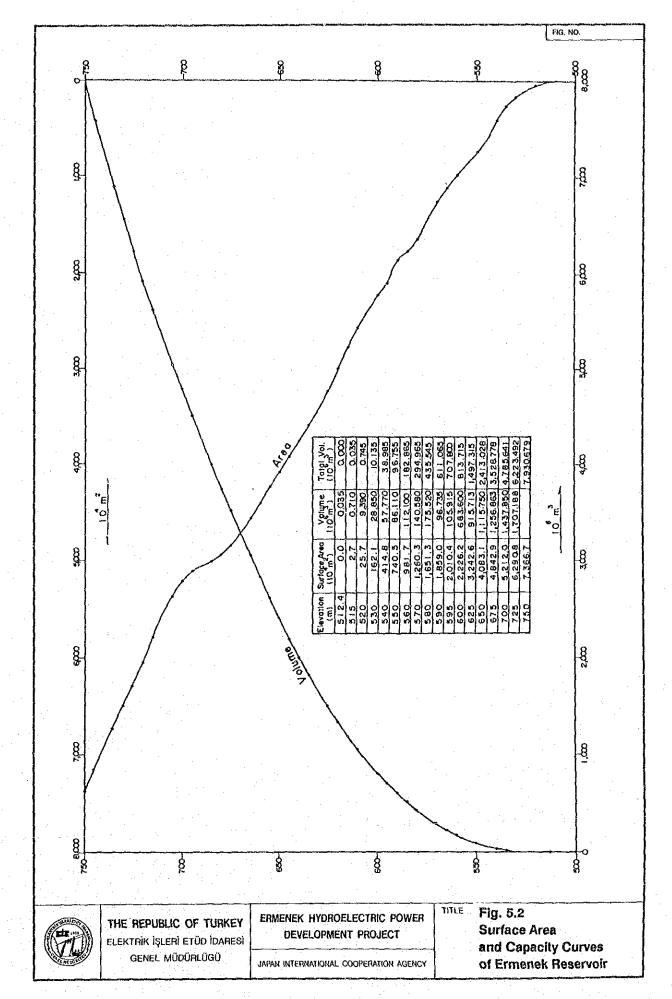


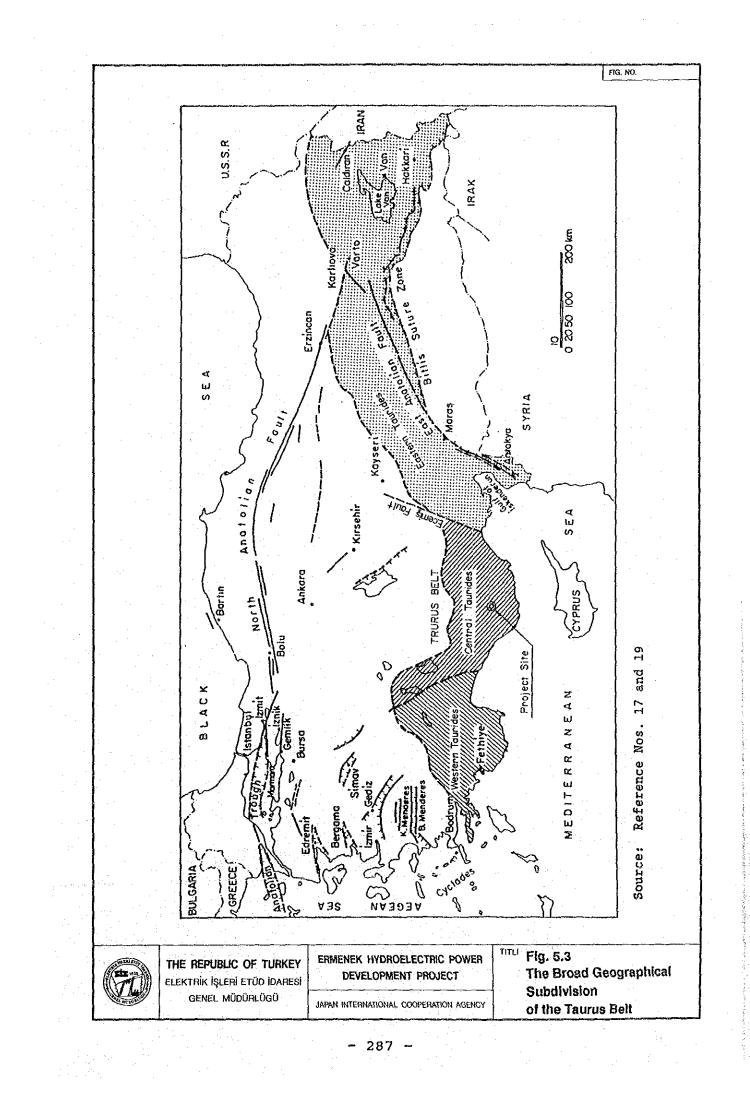
FIG. NO. Start Comparison of Ermenek dam site between I-B and I-C Temporary selection of arch dam at I-C Preliminary study of 1-step development plan (1) Addition of Erik Diversion Scheme (2) Type of power house Temporary selection of underground power house With Erik Diversion Scheme Study of 2-step development plans (1) Ermenek Dam + Downstream Dam Ermenek Dam + Upstream Dam (2)2-step plans ruled out Prospective dam site: I-C Alternative dam site: I-B Additional Detailed Investigations TITLE ERMENEK HYDROELECTRIC POWER THE REPUBLIC OF TURKEY Fig. 4.1 DEVELOPMENT PROJECT ELEKTRİK İŞLERİ ETÜD İDARESİ Flow Chart GENEL MÜDÜRLÜGÜ of Preliminary Study JAPAN INTERNATIONAL COOPERATION AGENCY

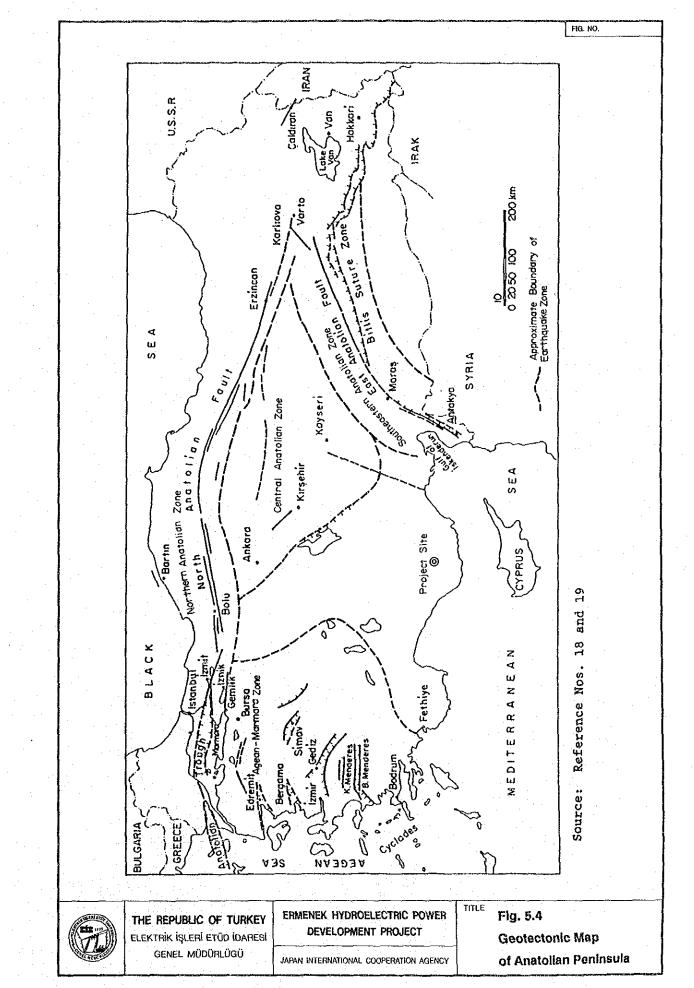
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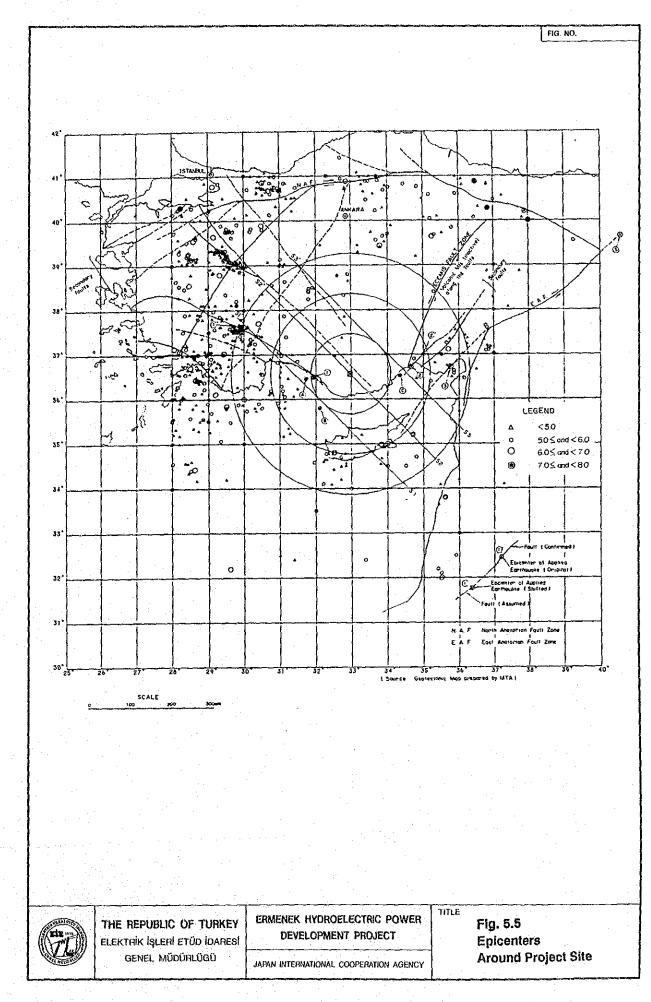






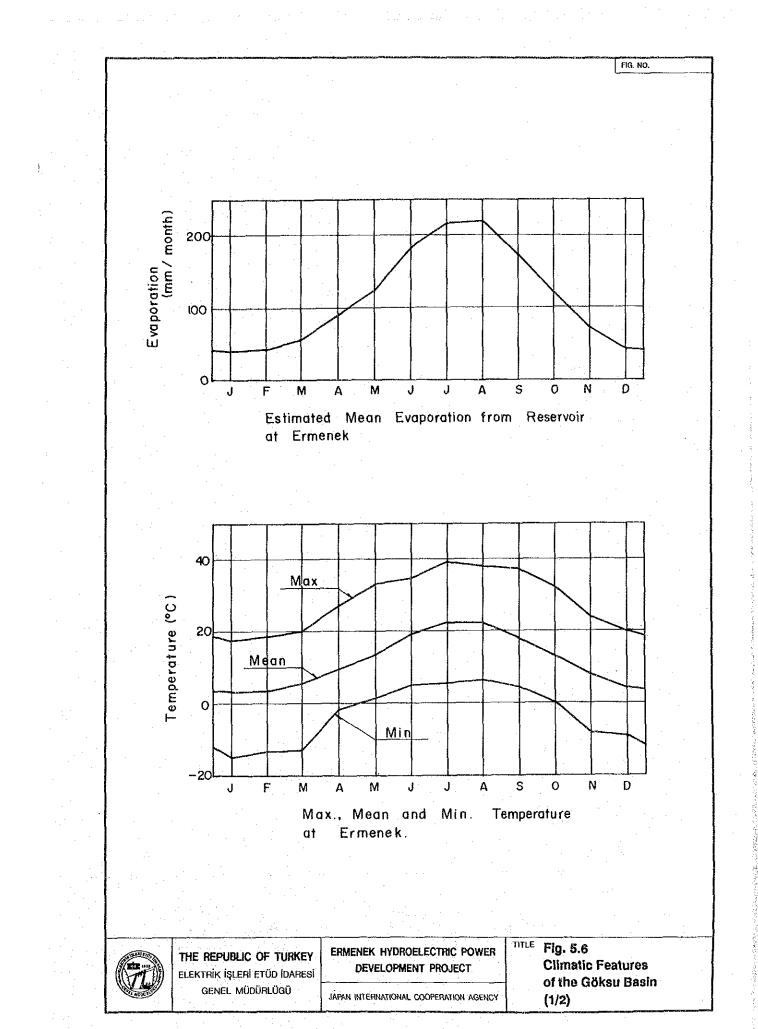
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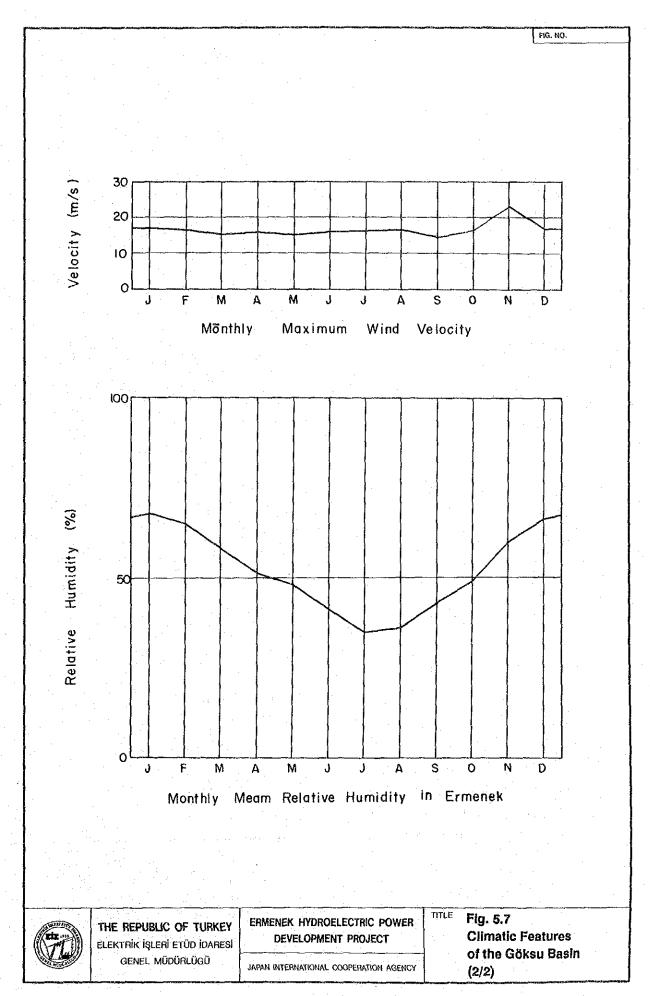
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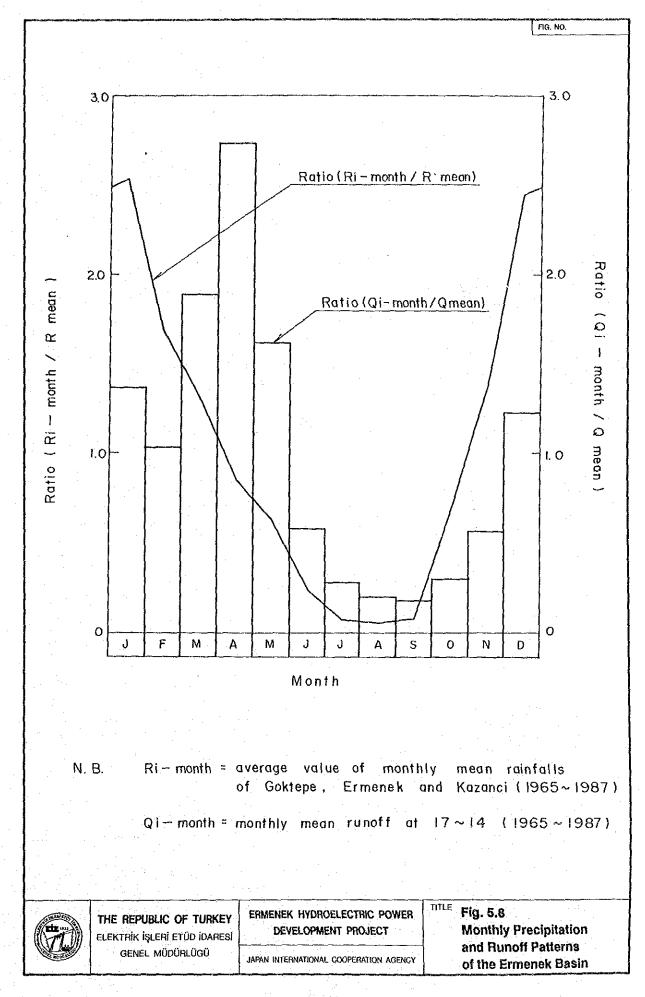
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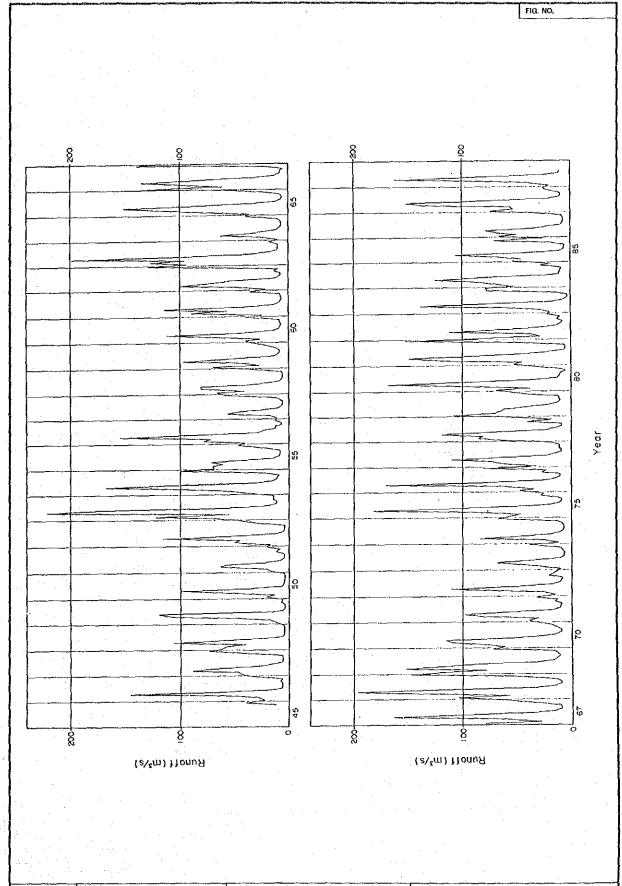
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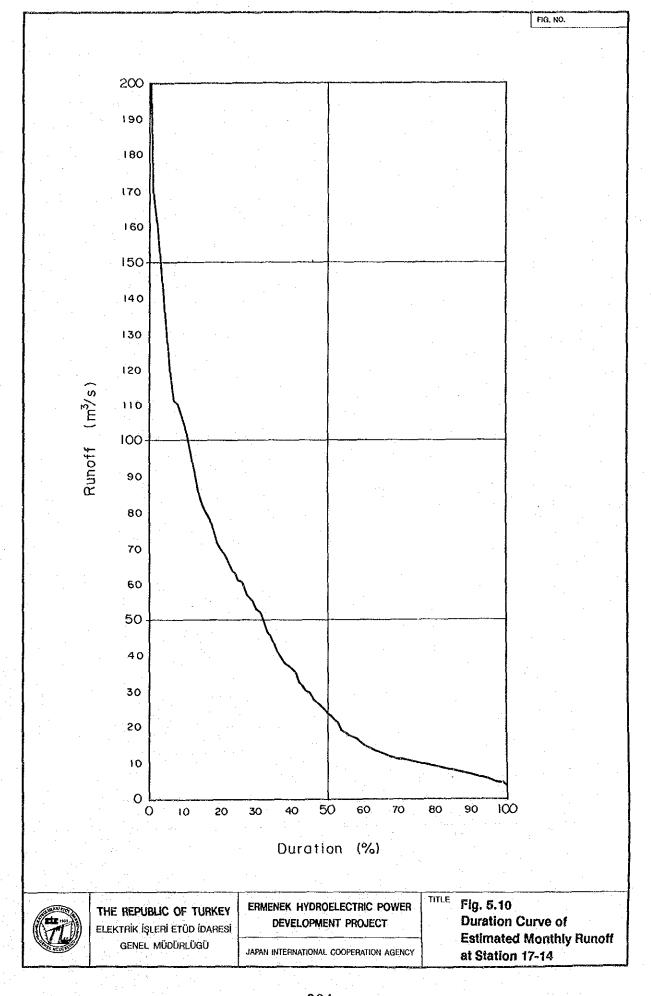


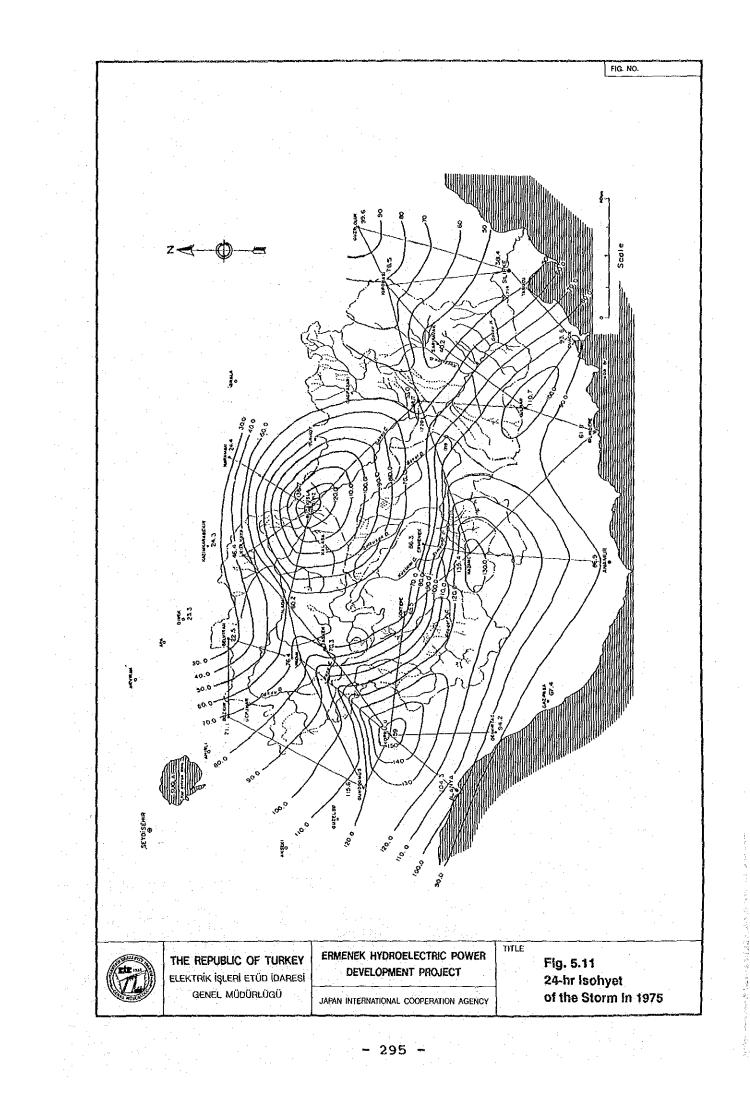
 THE REPUBLIC OF TURKEY
 ERMENEK HYDROELECTRIC POWER
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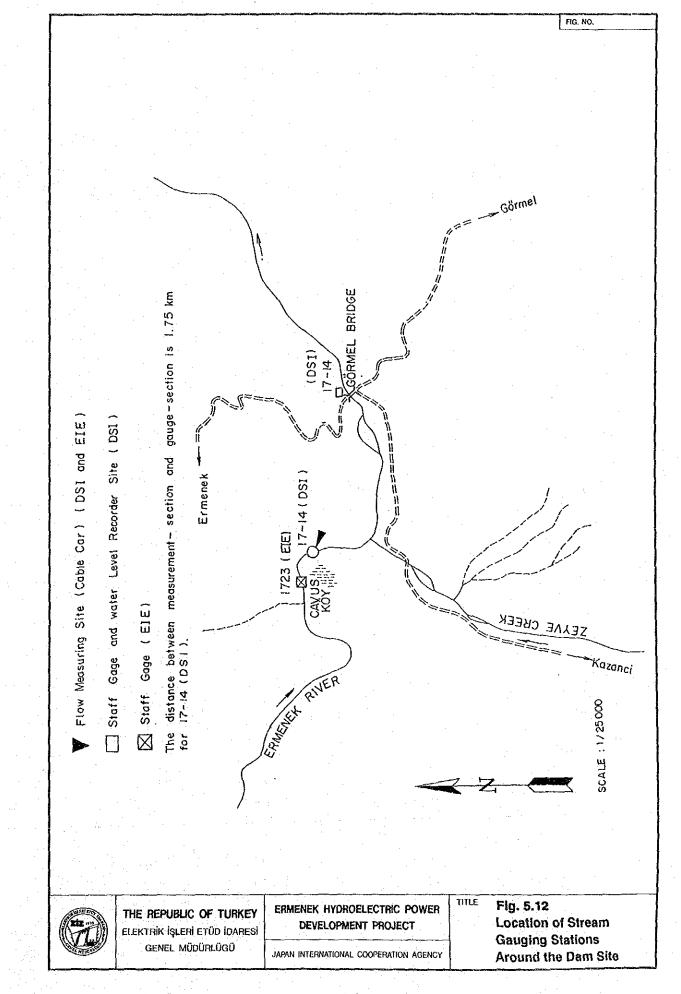
 ELEKTRIK İŞLERİ ETÜD İDARESİ
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 Fig. 5.9

 GENEL MÜDÜRLÜGÜ
 JAPAN INTERNATIONAL COOPERATION AGENCY
 Estimated Monthly Inflow

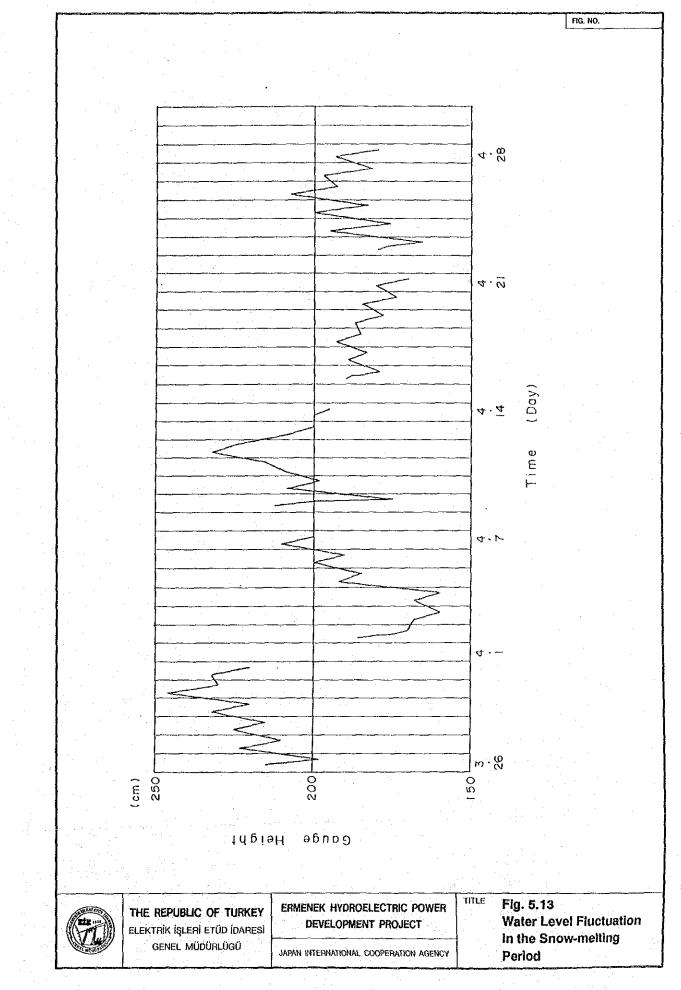
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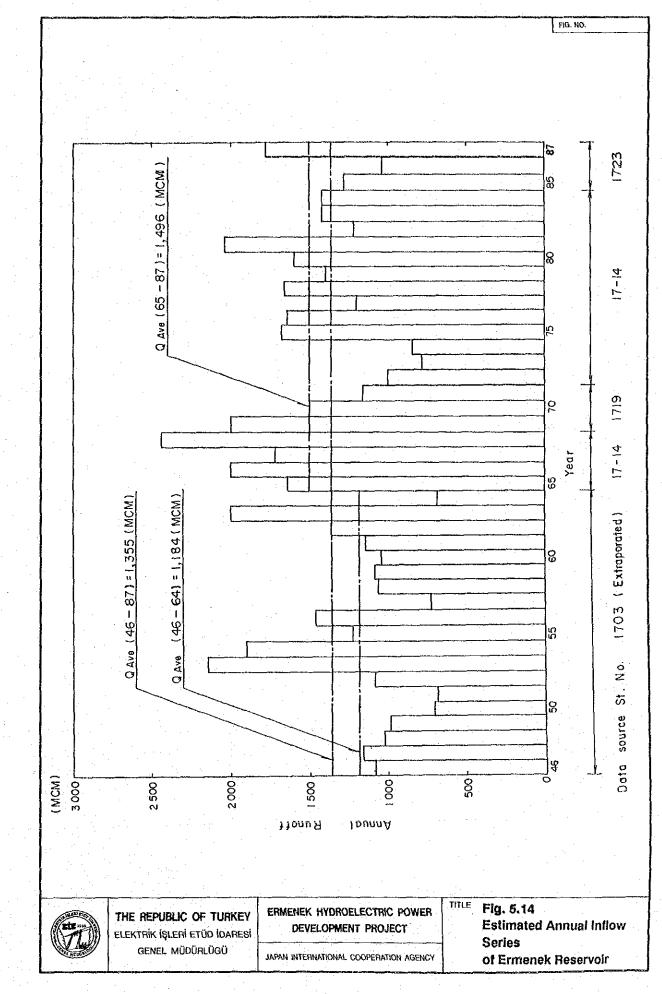


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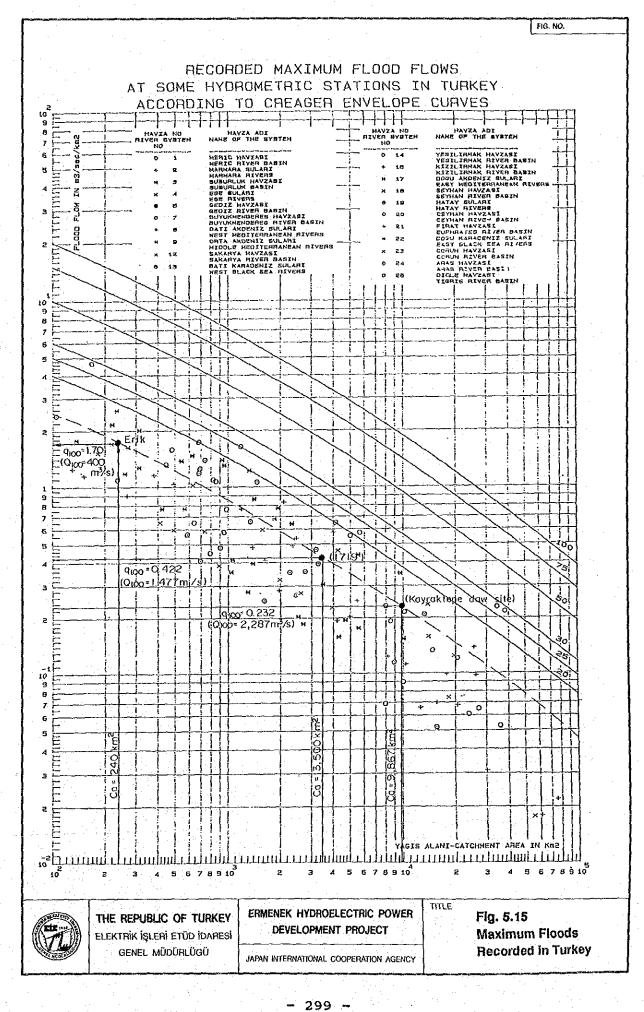
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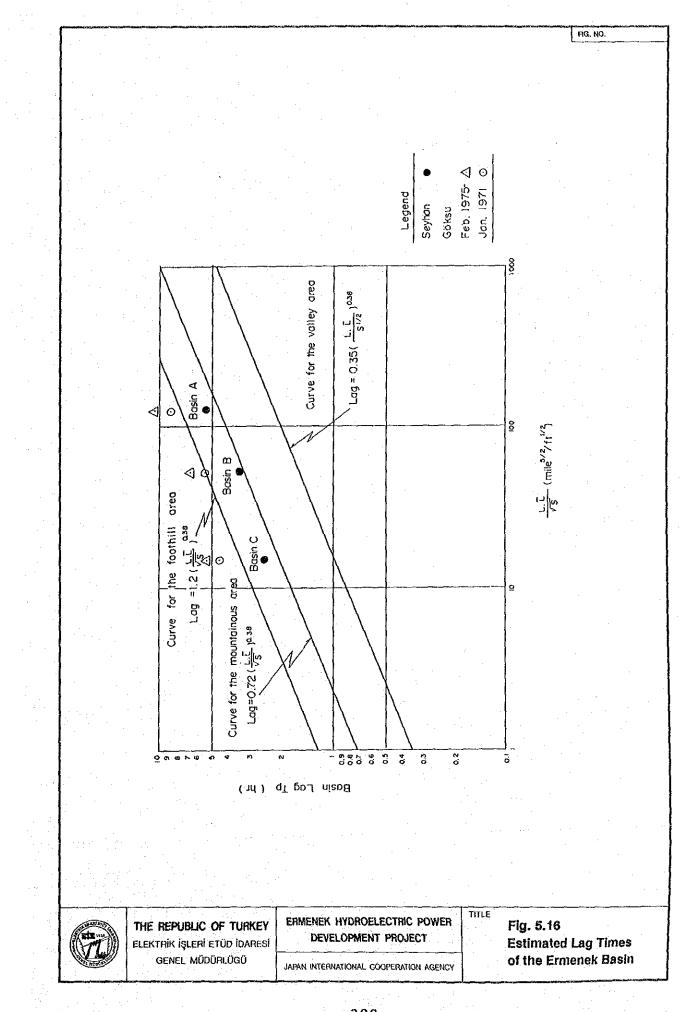


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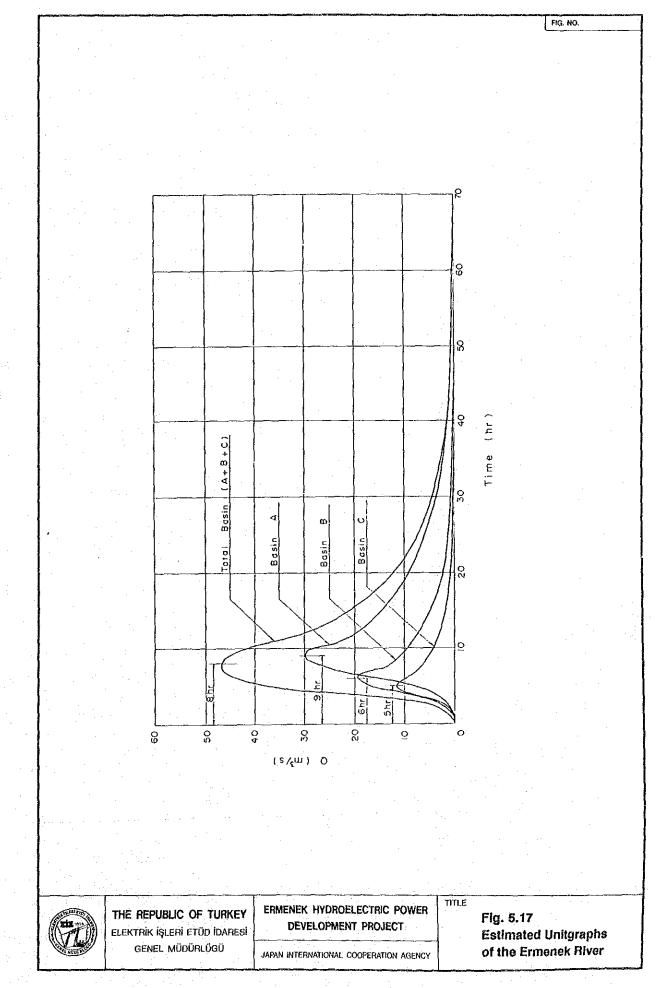
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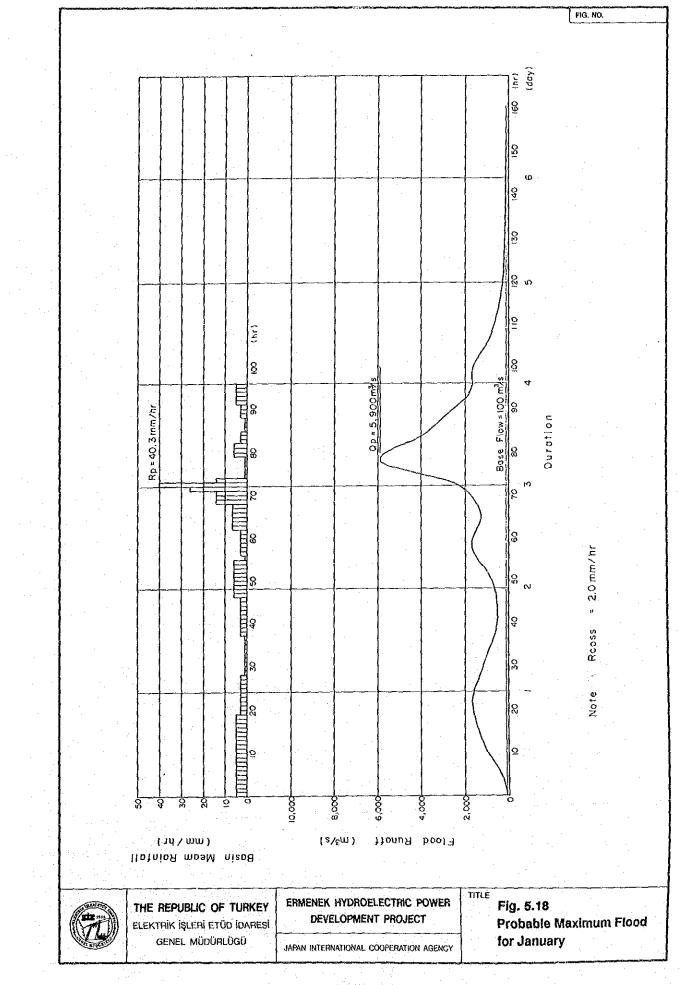




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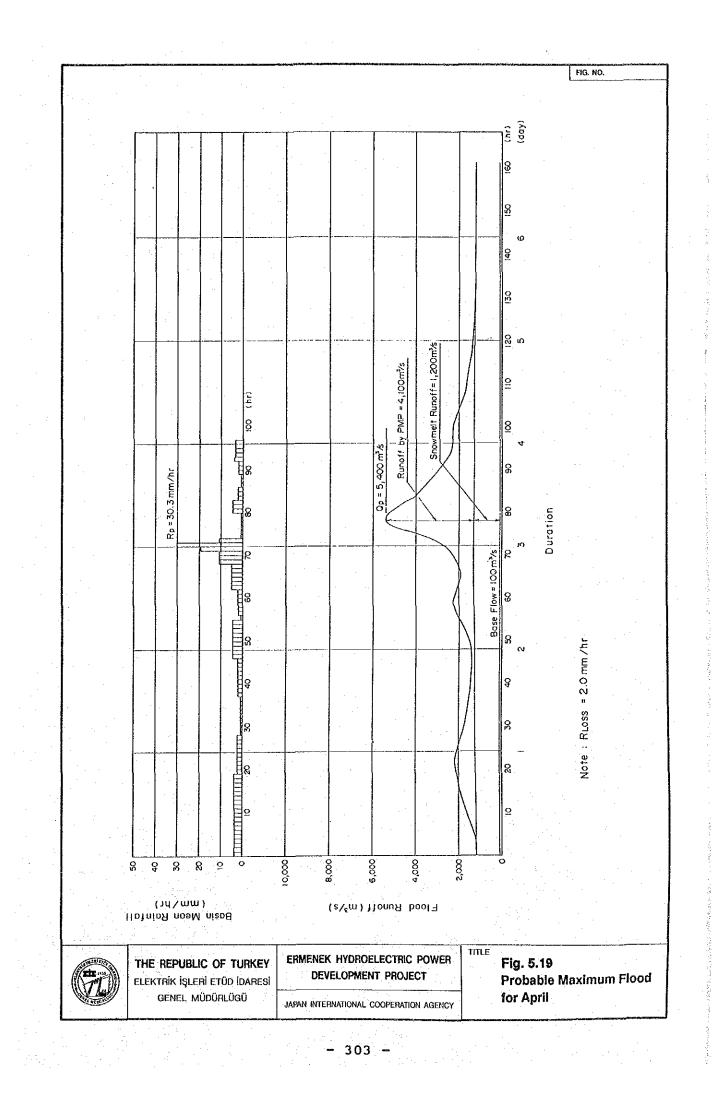
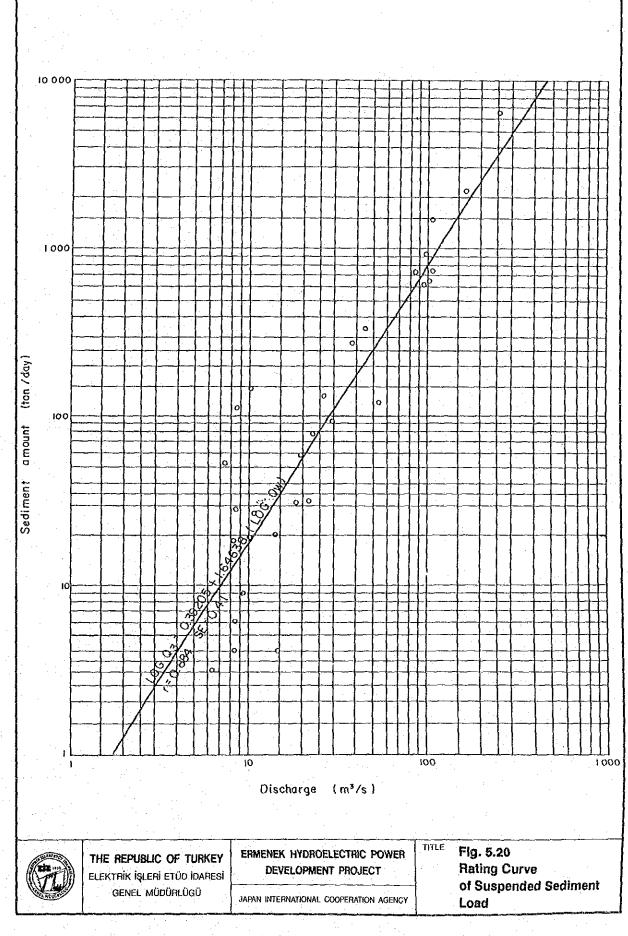
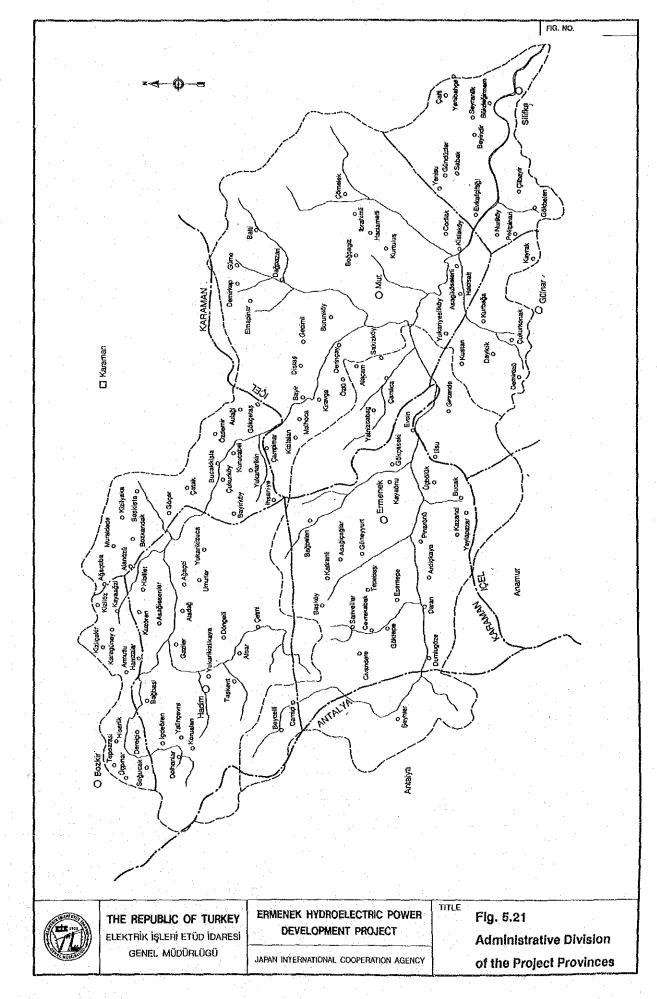
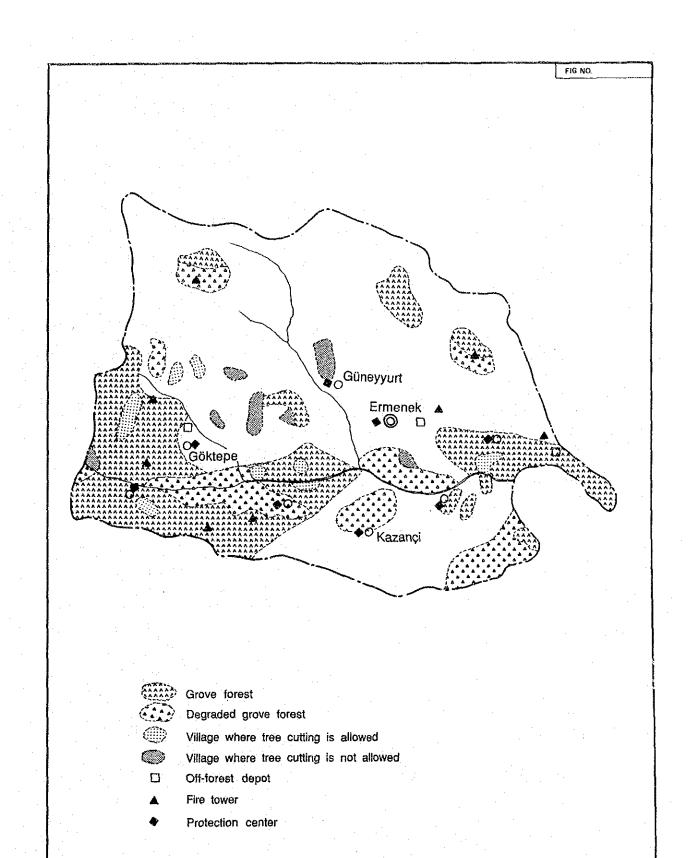


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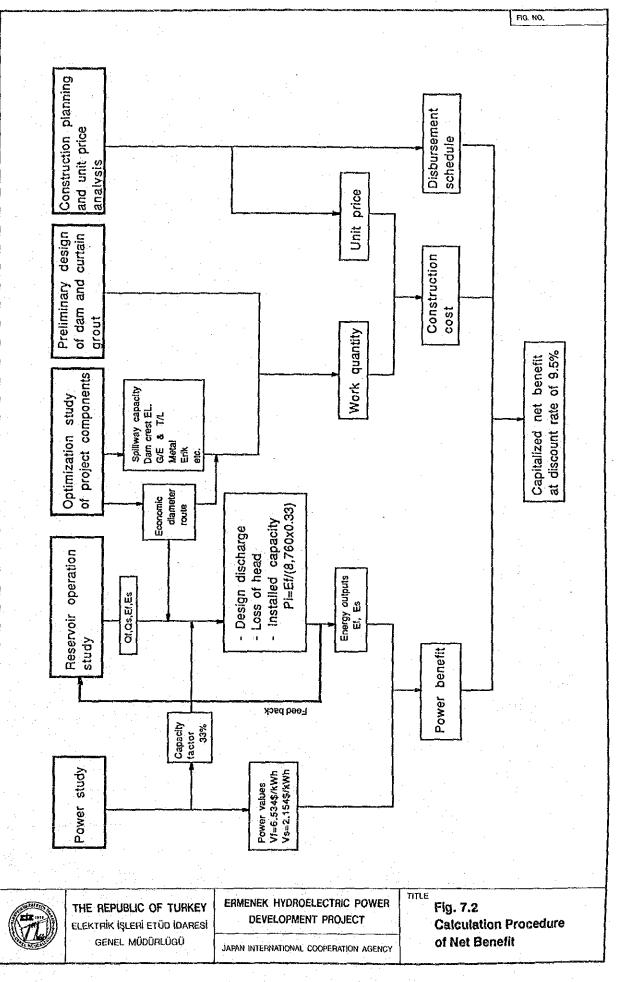


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	DROELECTRIC POWER PMENT PROJECT DNAL COOPERATION AGENCY TITLE Fig. 5.22 Forest Areas and Related Facilities in Ermenek District
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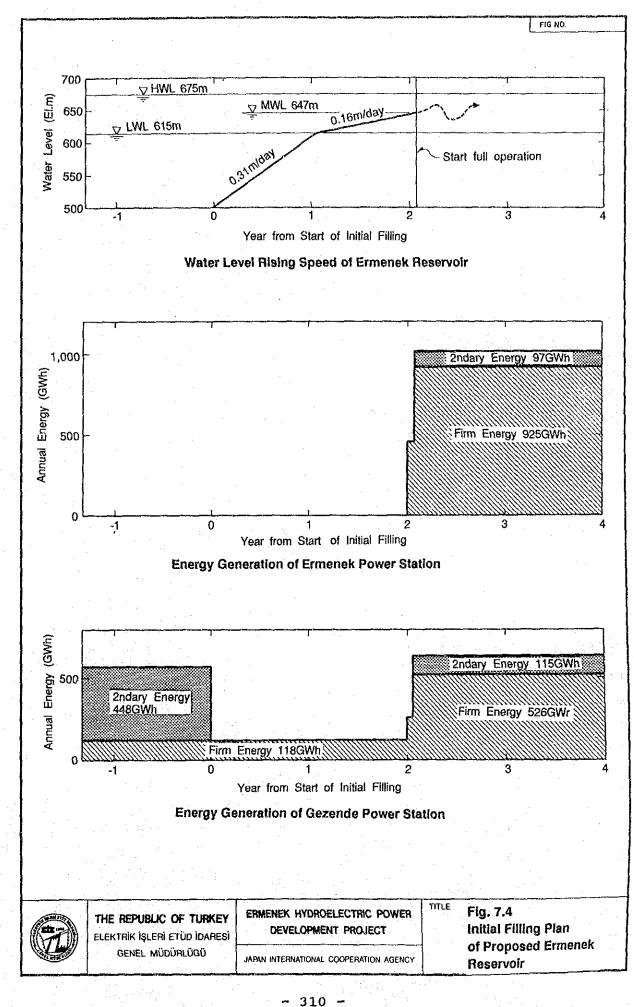
	Additional Detailed Investigations	
	I-C dam site technically possible.	
	I-B dam site ruled out.	
	Underground power house site de	termined.
	Assumptions and preparatory studies	
	 Initial filling plan of reservoir Assessment of risk of water leakage 	
	(3) Assessment of power benefits	
	(4) Cost estimate and disbursement schedule	
	Study of development plan	
	(1) Selection of dam axis	
	(2) Erik diversion scheme	
	(3) Type of power house(4) Addition of Erik Power Station	
		· · ·
	Optimization study of Project components	
		1
	Optimization study of development scale	
	End End	
A A A A A A A A A A A A A A A A A A A	THE REPUBLIC OF TURKEY ERMENEK HYDROELECTRIC POWER Fig. 7.1	
	ELEKTRIK IŞLERI ETÜD İDARESI	
VI. NOTION	GENEL MUDUHLUGU JAPAN INTERNATIONAL COOPERATION AGENCY OF OPTIM	ization Study

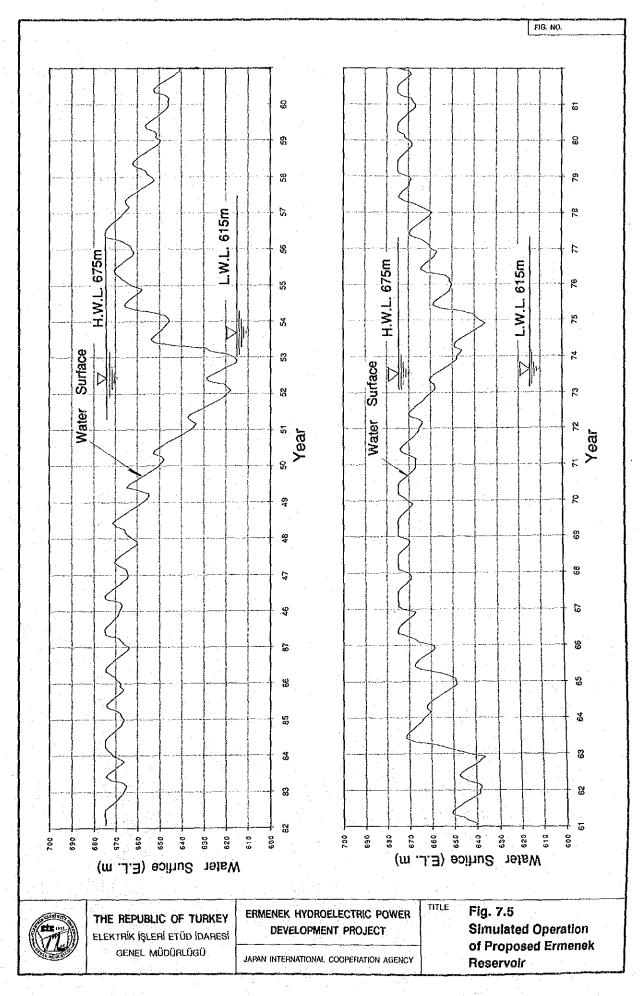


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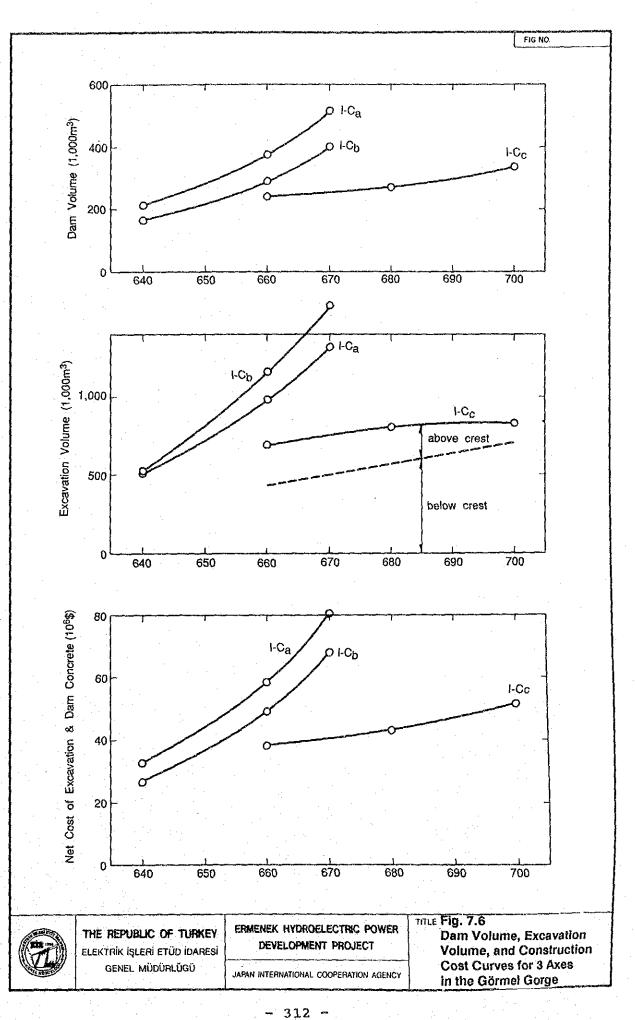
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	l form Detailed Investigation	1	Works													· .		
		01	Construction															
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	Year Counted	8	Feady for Ist	Dam □	<u>8</u> 0										77777777	filling up to		
		7	₽ 										b.l			2nd		
	th)	Total		• •	14.1	15.7	17.3	18,9	20.7	22.6	24.8	28.0	31.3	34.8	38.5		operation	
	Period (month)					: .		-	1		0.8	4.0	7.3	10.8	4	ML	50% load	
	Filling Pe				8.7	6.3	0.0	10.5	11.0	11.6	11.6	10.0	8.3	6.6	4.8	up to LWL	γd	
-	E.				5.4	6.3	7.4	8.5	6 7	11.0	12.4	14.0	15.7	17.4	19.2	ist filling	3rd filling	
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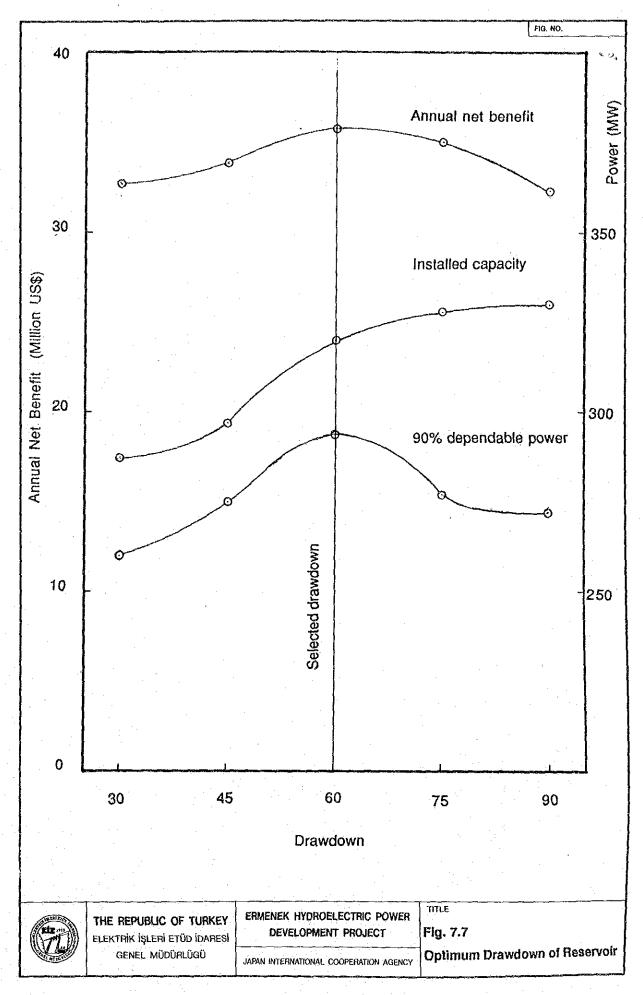




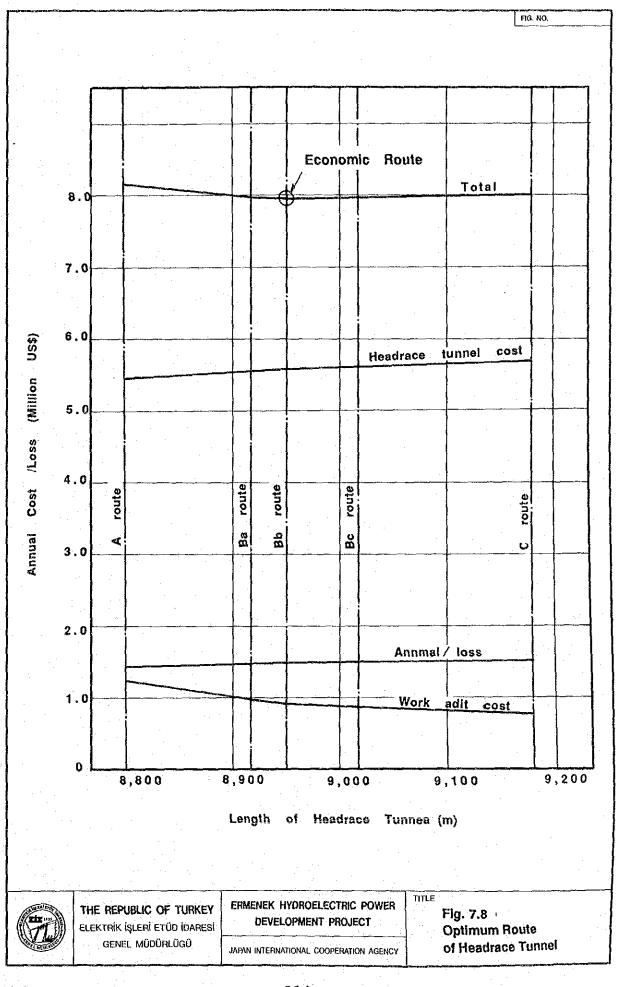
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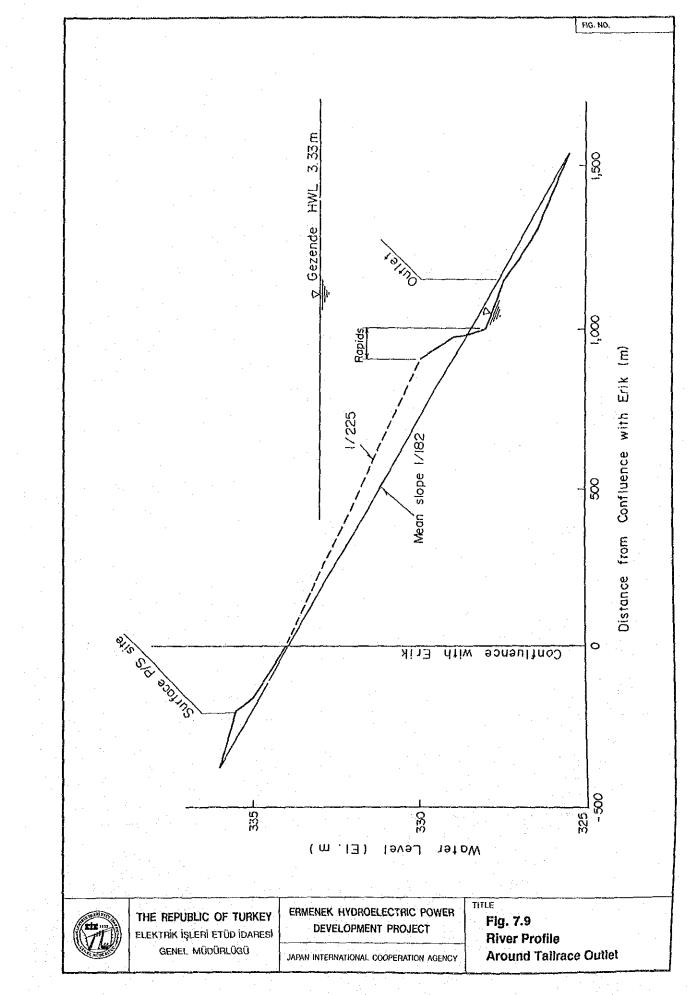
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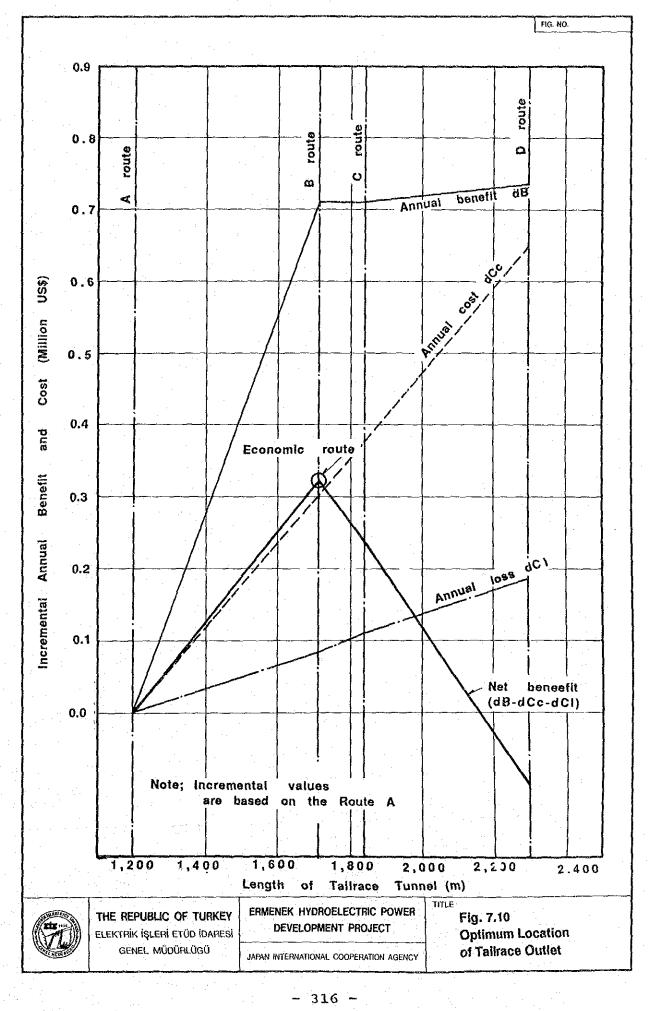


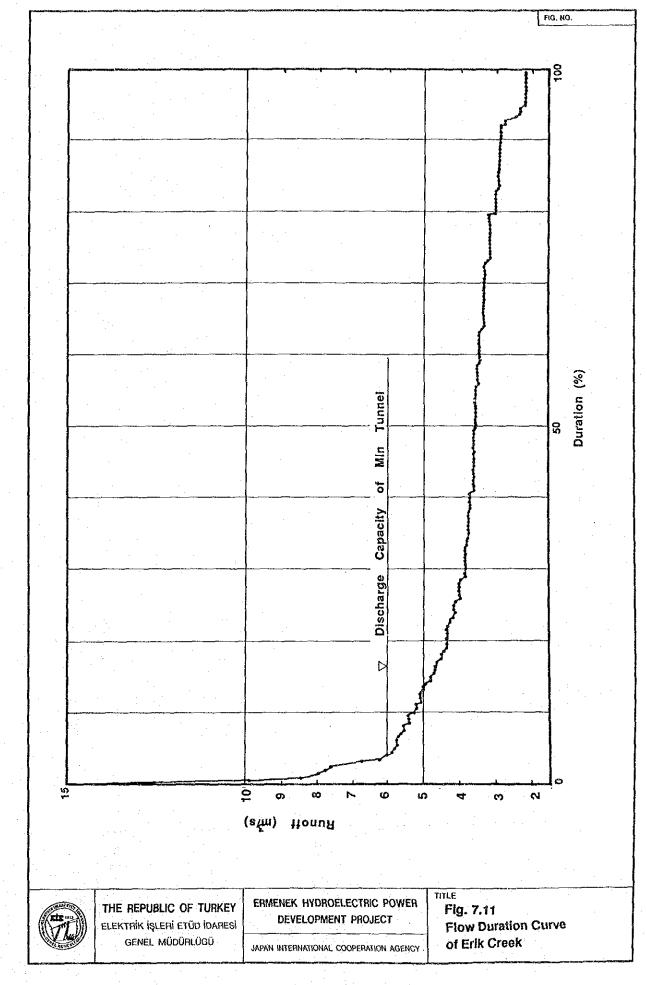
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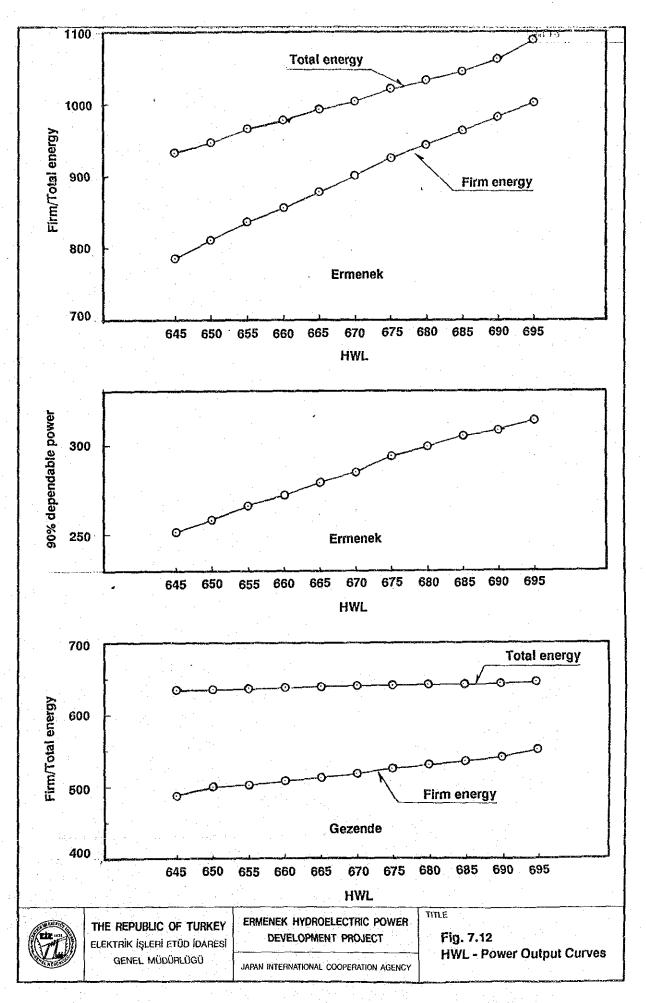
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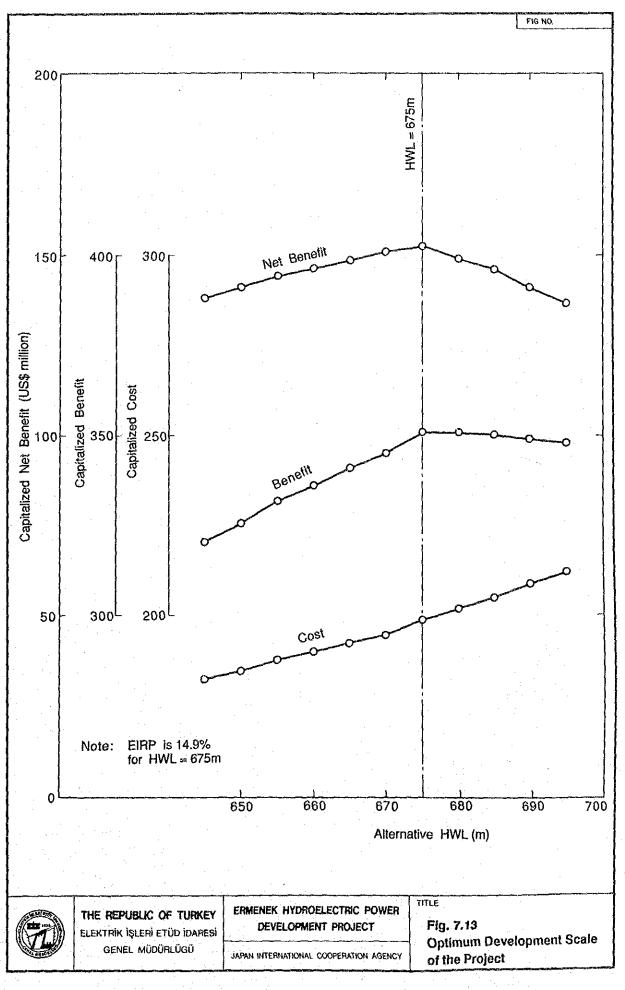




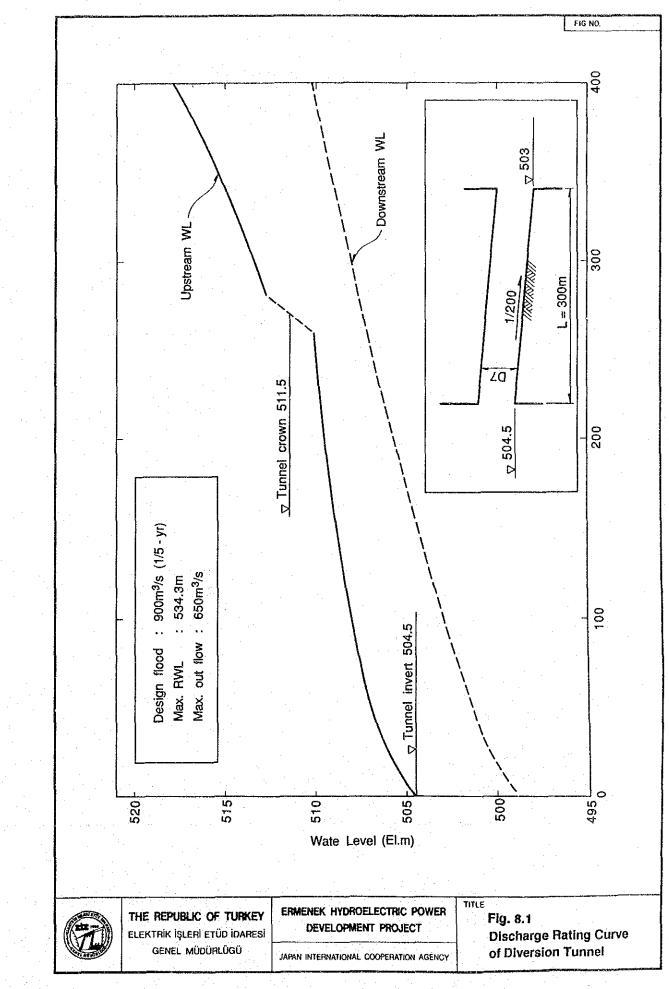
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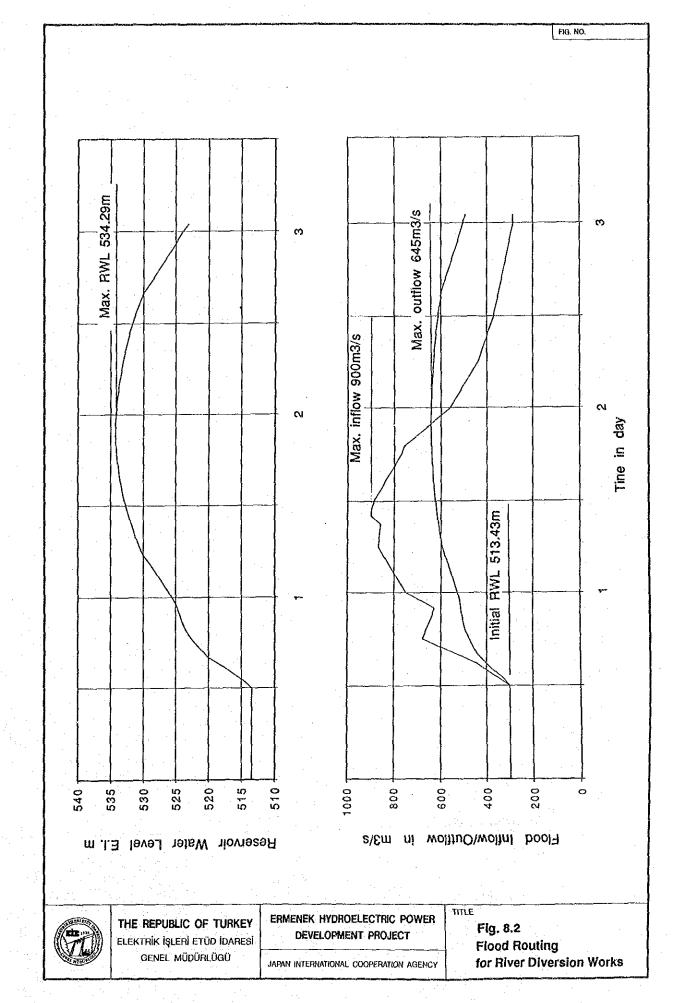
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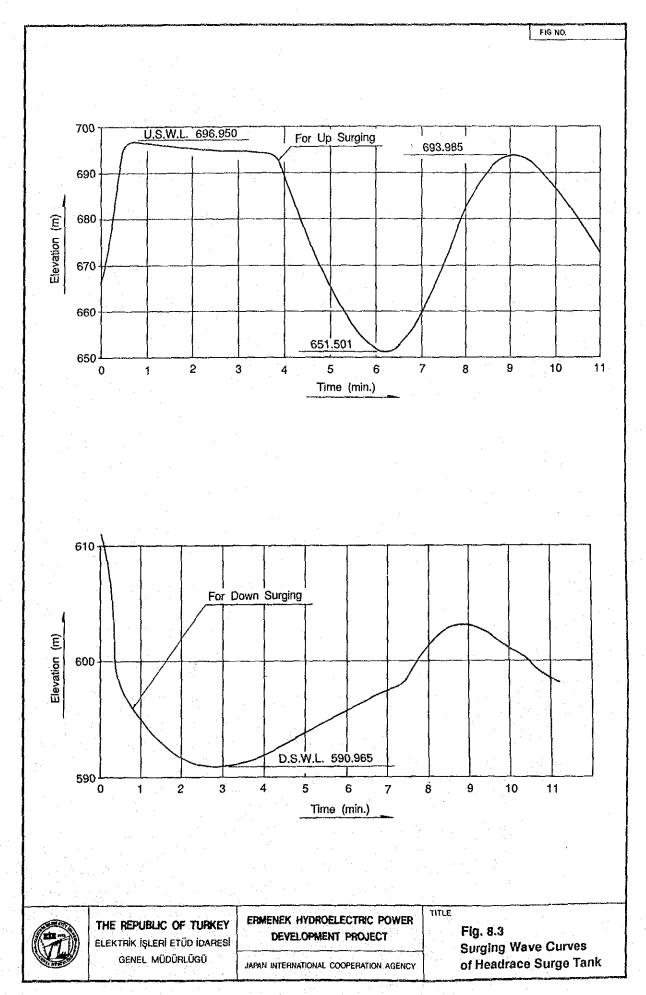
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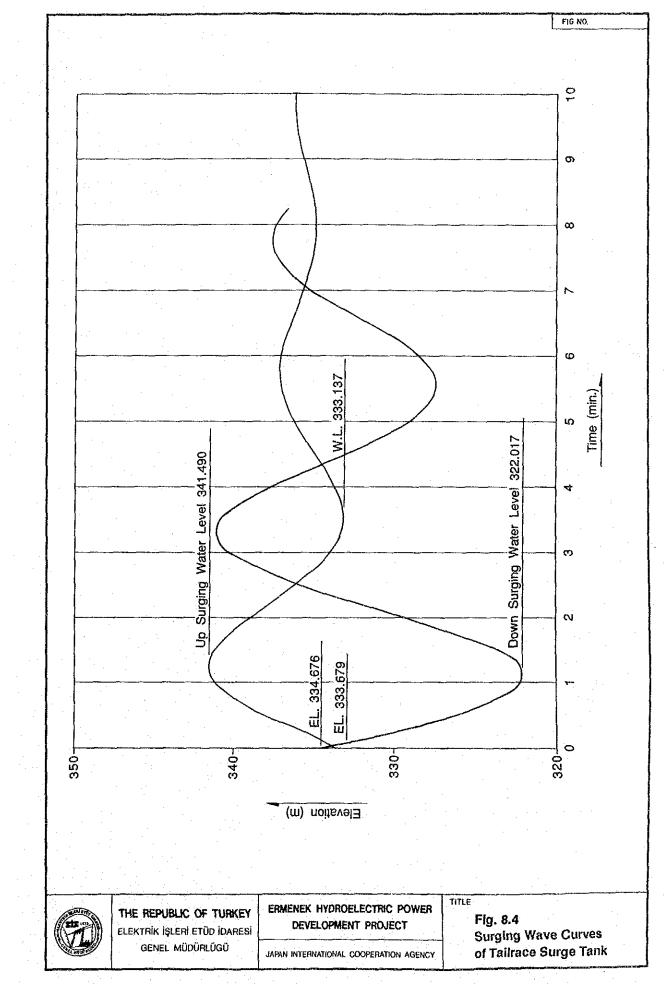


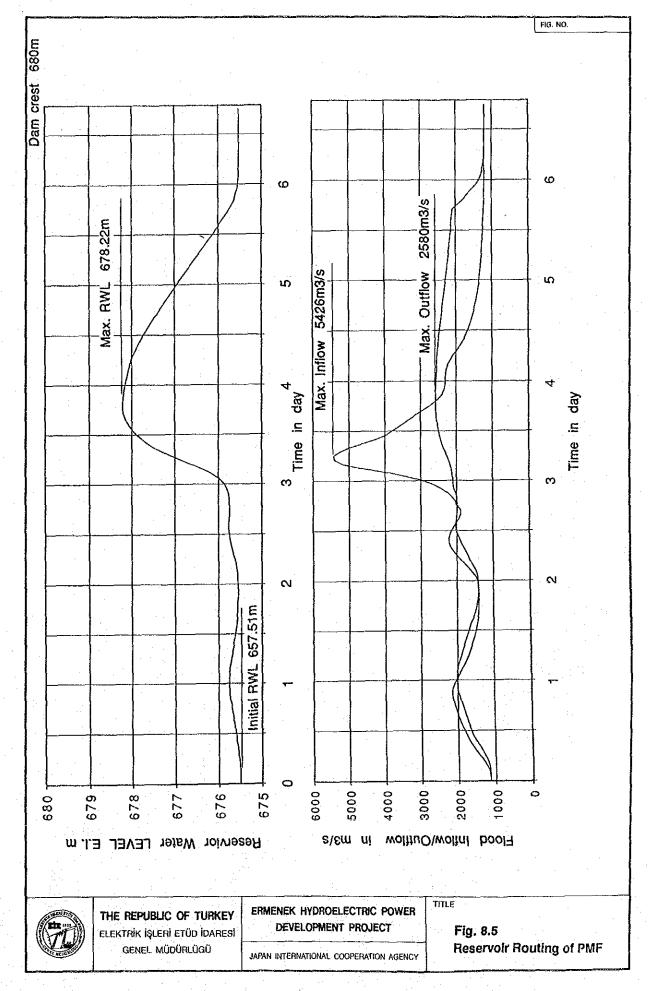
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