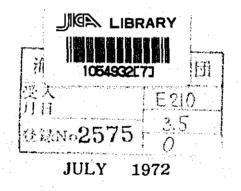
REPUBLIC OF INDONESIA

REPORT ON BRANTAS RIVER BASIN DEVELOPMENT

(DATA BOOK)



PREPARED FOR
OVERSEAS TECHNICAL COOPERATION AGENCY
GOVERNMENT OF JAPAN

BY

NIPPON KOEI CO., LTD.
Consulting Engineers
TOKYO, JAPAN

APRICATION OF BARBARA

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1. Population Estimate in Brantus River Basin

	Administrative	River		Populatio		Brants	tion in s River Bas	i n	Population Dencity	in .	Population Increase	Average Annual Increase Ratio
Administrative Districts	Area (km²) (A)	Ratio (%) (B)	Area (kin ²) (C)=(A)x(B	(1961)	(1971) (E)	Ratio (%) (F)	(1961)	(1971)) (H)=(E)×(F)	(1961) (G)/(C)	River Basin (1971) (H)/(C)	Ratio in 1961-1971 (N)/(G)	in 1961-1971 (%)
Urban	,,	(,	() (11)		, ,	. ,			(17, (-7	(17)	
1. Surabaja	274	70	192	1,164,829	1,567,176	90	1,048,346	1,410,453	5,465	7,352	1.345	3.01
2. Modjokerto	7	100	7	51,732	59,967	100	51,732	39,967	7,135	3,271	1.159	1.49
3. Kediri	63.	100	63	158,913	130,423	100	158,913	130,423	2,307	2,346	1.135	1.27
4. Blitar	16	100	16	62,972	67,782	100	62,972	67,782	3,863	4,158	1.076	0.74
5. Malang	69	100	69	341,452	414,886	100	341,452	414,886	4,946	6,010	1.225	1.97
Sub-total/Mear	ı		347				1,663,420	2,113,516	4.794	6, 148	1.285	2,52
Rura1							Ä.				•	
6. Surabaja	1,137	13	205	509,118	607,172	26	101,324	121,434	493	593	1.193	1.73
7. Sidoardjo	592	100	592	541,492	667,649	100	541,051	667,649	915	1,129	1.234	2.12
3. Modjokerto	836	91	761	494,492	595,226	ঀঢ়	121,318	305,942	533	605	1.204	1.87
9. Djongban	1,160	100	1,160	686,362	311,631	100	484, 362	811,681	592	760	1.153	1.70
10. Madiun	1,034	17	176	509,428	533,012	10	50, ""	53,301	290	332	1.144	1.35
11. Kediri	963	100 -	963	918,036	1,081,913	100	918, 136	1,081,915	933	1,123	1.179	1,66
12. Ponorogo	1,311	1	13	099,365	737,760	0	1 -	-		- -	· <u>-</u>	· •
13. Ngandjuk	1,183	100	1,183	675,906	774,734	1(9)	975,406	774,734	572	655	1.146	1.37
4. Blitar	1,663	91	1,513	339,952	950,275	95	751,954	902,762	526	5 95	131	1,24
5. Tulungagung	1,055	93	981	675,349	759,325	93	(41,582	721,834	654	736	1.125	1.19
6. Trenggalek	1,205	75	964	438,357	521,425	9.	-14,914	497,354	46.1	548	1.188	1.74
7. Malang	3,107	- 30	2,775	1,474,106	1,754,501	.15	1,252,690	1,491,326	432	315	1.190	1.76
18. Pasaruan	1,315	20	263	729,367	363,762	30	213,817	260,629	332	991	1.191	1.76
Sub-total/Meur	1		11,494	•			6,721,690	7,393,561	<u>535</u>	<u>637</u> ·	1.174	1.61
Total			11,341				3,330,110	10,027,077	708	847	1.196	1,31

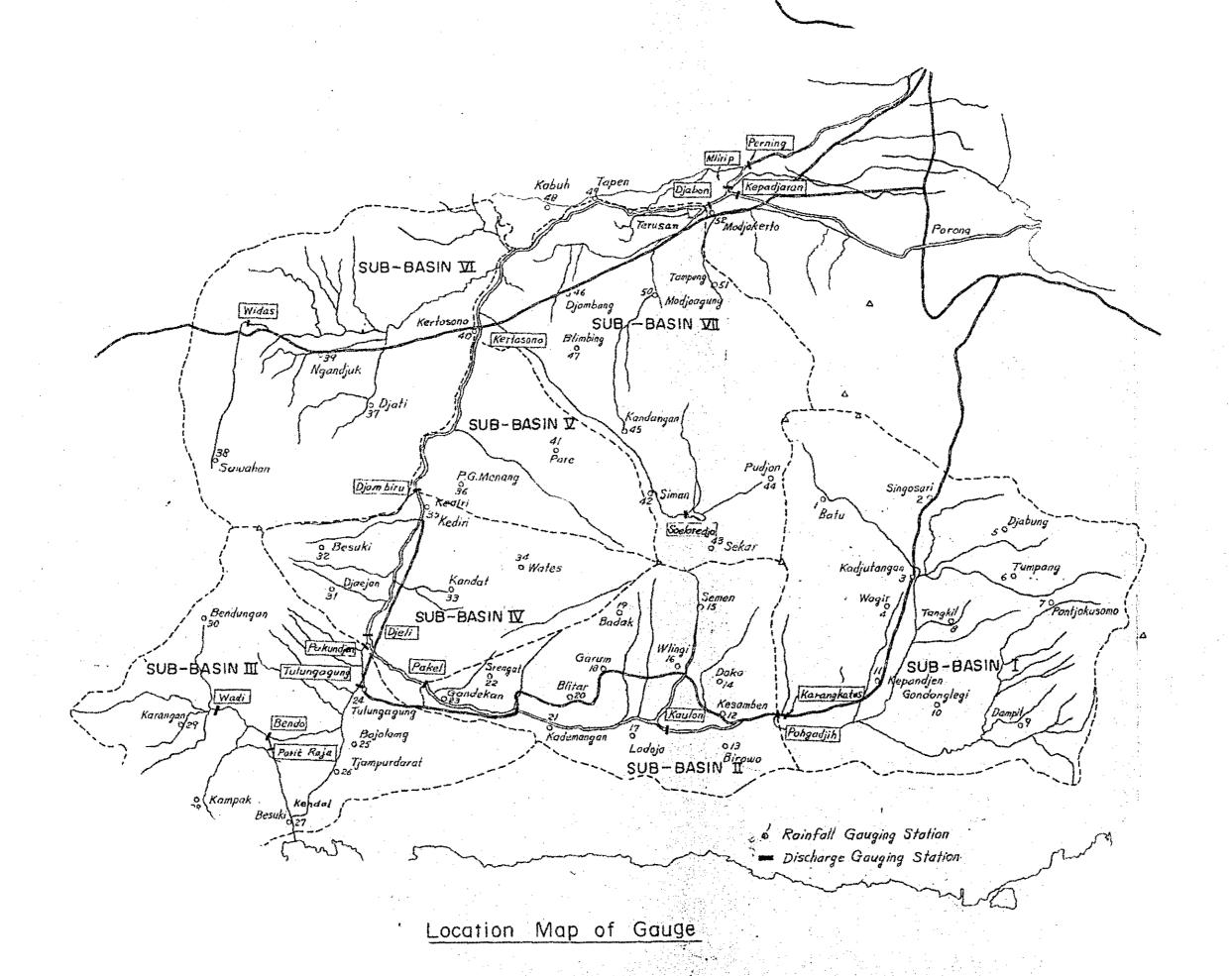
Data Source: (A) & (D): "Djava Timur melam Angka 1970"
Sensus dan Statistik Propinsi Djava Timur.
"Almanak INDONESIA 1963"
Biro Pasat Statistik, Djakarta.

(E): Sensus Penduduk Sep. 25, 1971
Sensus Dan Statistik Propinsi Djava Timur
Pigures except East Java are based on rough estimate of
Population Census Sept., 1971 by B.P.S. Djakarta.

(h): "Rentjana Penggunaan Tanah Hilir Doorak Aliran Kali Brantas.-Inspeksi Landuse Djawa Timur, Malang

2. Monthly Mainfall at 52 Main Gauges

The compiled herein is the monthly rainfall of 52 raingauges calculated from the records during the 1951-1970 period. The location map of 52 gauges is as shown in Fig.2-1.



Rainfall Gauging Station

		Station number	Name of place	Elevation (m)	Interrupted period during 1951-1970 period
Γ	/	8	Batu	877	1961
·ſ	2	51	Singosari	480	
	3	52	Kadjutanyan	465	÷
ľ	4	55	Wagir	400	
	5	83	Djabung.	550	
ŀ	.6	84	Tumpang	600	
t	7	85	Pontjokusomo	860	
ŀ	8	58	Tangkil	397	1961, 1967
ŀ	9	86	Dampit	510	1961
t	10	64a	Gondanglegi	558	//4/
ŀ	11	52	Kepandjen	335	
ŀ	12	167	Kesamben	205	
ŀ	13	168	Birowo	175	
ŀ		165			
ŀ	14	 	Doko .	328	1051 1053
ŀ	15	/53	Semen	500	1951~1953
-	16	164	Wlingi	320	7000
ŀ	17	144	Lodojo	/32	1952
L	18	/36	Garum	245	
Ļ	19	-	Badak	560	1951
ŀ	20	137	Blifar	/70	
ļ.	2/	141	Kademangan	122	
_	22	120	Srengat	128	
	23		Gandekan	100	(本)。
Ļ	24	34	Tulungagung	90	
L	25	45	Bojolamgu	86	NEC TO THE RESERVE OF THE PERSON OF THE PERS
	26	460	Tjampurdarat	88	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
L	27	46	Besuki	87	
	28	50	Kampak	120	
	29	41	Karangan	112	
	30	27a	Bendungan	690	1951~ 1953
	3/	24	Djaejan	425	\$390 \$400
ĺ	32	21	Besuki	630	Magnetic Committee of the Committee of t
ŀ	33	78	Kondat	120	State
	34	107.	Wates	225	
ŀ	35	19	Kediri.	62	1969 ~ 1970
	36	76	P.G Menang	182	
ŀ	37	/3	Djati -	67	
ł	38	16.	Sawahan	570	The state of the s
L	39	7,00%	Ngandjuk	60	And English
ŀ	40	64	Kertosono	66	
١	41	91	Pare'	158	Maria
ł		97			Mark S
ŀ	42		Siman	350 700	1
ŀ	43	3	Sekar		
ŀ	44	5	Pudjon	/200	1055 1057
ŀ	45	95	Kandangan	33	1951~1955, 1957
-	46	32	Djombang	40	1.2 (1.1)
	47	41	Blimbing	70	1966
	48	20	Kabuh	28	
l	49	26	Tapen	50	
	50	67	Modjoagung	37	1951~1955, 1957
	51	116	Tampung	70	1951
٠,			Modjokerto		

							•						
											(Unit:	mm)	
												•	
•••	NO. 1	BATU		***	•							**	
YEAH	JAN.	FEB.	MAD.	ips.	HAY	JUNE	JULY	4410.	cep,	nat.	NOV.	nec.	TOTAL
				***		1.	40	4.6	•	45	7.	22	1768.
1950 1951	193.	ዖ⊅ ₈ . 268.	26 ₈ . 188.	366. 15.	147.	74. 84.	42. 29.	15.	n. v.	45.	78.	2 y 2 . 275.	1284.
1952	296	319	433.	97.	39.	0.	0.	5	3,	n?.	490	489.	2262.
1953	227	210.	159	161,	163	11.	20.	n.	٥.	e.	107.	355.	1438.
1954	384	227.	201.	210.	70.	44,	11.	67.	34,	128.	481.	343.	2202.
1955	207.	204.	210,	76.	109.	62.	218,	19,	21.	60.	32n.	288. 245.	1794. 1510.
1956 1957	28c. 25u.	295°	161. 490.	97	38. 49.	2.	46. 137.	37. 24.	7, 10.	11 25	17n. 66.	321.	1768
		245.	306.	104.	39.	ø,		41.	34.		•	506	1947.
1958	187:	316	238	107	110.	5.3.	٠\$:	Ċ.	n.	26 87	105. 167.	41/.	1947
1960	453	299.	301.	145.	157.	68	2.	• •	4,	55,	152.	260.	1 05.
1961	395.	255	200.	185,	114.	a.	0.	_ (f a	0.	Q.	110.	398	1672.
1962	548.	44^ • 257	167.	156	17,	აე•	10.	50.	.9*	27. 19.	313.	38 p ·	2073. 1488 1436
1963 1964	466 28:	777	292 300	175	152	ئې: ئې:	0. 0.	21.	11 ;	275	290	150	1436
1965	17.	264	207	136.	32.	11.	0.	0.	0	10	31.	490.	1225.
1966	171	757	315	110	G n	٠.	ō.	ř.	ņ,	5.0	150 114	220	1582 145 <u>1</u>
1947	326	250.	130	119.		0.	0.	0.	٠.	>3		440	1471.
1968	19n •	240.	243.	65.	215.	15n+	186.	ან.	13.	٥.	234.	247.	1 9 gA • 1 5 6 7 •
1969	アラウ・ アラド・	296. 268.	339. 366.	37. 147.	58. 74.	10. 42.	15.	₽•	10. 45.	73. 78.	131. 282.	311. 173.	1748.
1970	730.	200	, , , , , , , , , , , , , , , , , , ,	177.	, ,	77.	1.	5.	77,	, .,	***	1.0.	•
												MEAN	1710.
		E. anti											•
	• N°• 2	21 v808)	MAD.	,ρe,	ماريس	June	JULY	AUG.	ς ε Ρ.	oct.	NOV.	DEC.	TOTAL
YEAR	Ja'••	Fê⊣.	~A~.		~ A Y	3072					-		
1750	429	147.	110.	277.	168,	100.	90.	n.	2.	0.	٠.	35.	123P. 1873.
1751		357	137.	54. 42.	203. 145.	10%. 29.	66, 0.	11 ⁴ . 33.	ev.	14. 52,	146. 513.	304. 266.	2020.
1+52	133	167	101.	148	154	10	59	() .	0.	54	101	327	1555.
1954	LLA	234	764	234	219	94	26.	129.	¥1.	62.	300.	258,	2350,
1955	251.	20 F.	195.	70.	94.	175.	229.	პი.	102.	213,	456,	233.	2257.
1950	265.	194.	175.	164.	65.	1 U A +	10.	140+	36.	67.	791.	316.	1872.
1757	ta H.	420	564.	124.	21.	611.	230. 43.	22. 53.		76.	233. 213.	375. 551.	246m. 2109.
1955 1959	761. 172.	292. 247.	238. 245.	202. 146.	33. 271.	114.	P.	5.	21.	77,	170.	525	2194.
1460	64.	4 . 4	300	314	151.	97	96.	11.	29.	132.	433,	327.	2727.
1941	412,	200.	217.	238.	142	0.	P.	fa e	n.	Đ.	154.	433.	1876.
1942	^ 5 2.	4 : 5 .	107.	250.	115.	126.	52.	117.	в.	79.	337.	933.	3271.
1963	767.	215.	201.	14.	14.	14.	0.		13.	n.	57.	245.	1100. 1279.
1964 1965	114.	114.	282. 215.	151.	55. 96.	2.5 .	5. n.	47.	21.	21H.	146. 29.	77. 354.	1048
1966	: *1	286	358.	15 ^H	64,	5.5	0.	0.	0.	7 D •	129.	254	1543,
1967	139,	1.45	138,	180.	٩	į.	6.	0.	0+	P.	189	293.	1083.
1948	269.	255	227.	134.	111.	103.	14.	117.	53.	110.	221.	238	1946.
1949	291.	108.	367.	54.	129.	٠,	6 •	₫•	Π•	34.	176.	165.	1409.
1970	147.	113.	275.	104.	106.	۸0٠	0.	 •	ſF.•	υ.	35,	265.	1196.
***	• N∩. 3	KAJUTA	n to a to	***								WEAN	1659.
YEAR	JAM.	Fee.	4A#.	. بانبه	ZAY	JUNE	JULY	∆uf-,	SEP.	nuT.	NOV.	nec.	TOTAL
1950	>52.					64.	53.			48,	82.		1243,
1751	405	147 320	195. 152.	240. 64.	158, 98,	176	14,	41 25	7 • A	107	89	108. 529	2093.
1452	512.	317	724	40.	104.	28	a.	Ä	22	143	486	266	2650.
1953	272.	234.	256.	275.	172.	7.	71,	7.	٦.	2.	141.	304.	1787.
1954	447	430	171,	251.	741.	102.	8	94	39.	120.	417.	396	2716.
1955 1950	4 <u>2</u> 7 244	163 263	212. 175.	59 60	95 22	171.	112	31. 51.	. ô¢	66 205	284. 337	216	1912. 1776.
1957	164	165	125	127	63,	4	100.	30	0. 10.	4.	337. 90.	343. 411.	1731.
1958	320	255	190	251	105	114	91.	70.	70.	, i	111.	318.	1911.
1959	420.	243	765,	60.	245,	23,	В,	ð,	o,	104.	224.	419.	1911. 2067.
1960	197	501	194	193.	69,	106.	47	n.	6.	46.	290	57	1786.
1961	457	3.5	243	175	131.	0.	0	n	0	0	155	411	1857
1962 1963	493, 383,	264. 377.	28g. 217.	762, 65,	0. 0.	33. 3.	14.	117.	12. n,	76. 0.	117. 38.	427. 309.	1857 2515 1392
1964	127	170	286	238	125	85.	0.	27	47	347	284.	220.	1956.
1965	192	717.	248	238	58.	0.	0.	n	0.	2.	146.	383.	1956.
1966	პენ.	309.	351.	142.	99.	57,	0.	10.	2.	115.	149.	240.	1770.
1967	293.	271.	254.	201.	59	0.		_0+	0.	6,	200.	412.	1756.
1968	201.	309.	416. 474.	110.	117	223.	239	22.	47.	16.	158.	214.	2072 1759
1970	328 147	351. 105.	240	68.	23. 64.	53.	41	0 • . 0 •	43	34. 82.	1 ⁵ 0.	294. 119.	1110.
		-U- V		*0				٠.					

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													•	
	•••	NO 4	MAGIR		• • •									
			1 7	u n	*		JUNE	61.11 M		ect	007	NOV.	DEC.	TOTAL
	YEAR	J¥it*	FER.	н Р	APR.	744	3045	JULY	AUG.	dfa.	ngT.		nec.	
	1950 1951	11 ⁸ . 373 .	99. 201.	378. 165.	271. 65.	243. 47.	105.	40.	14.	0. 6.	25. 0.	56. 15.	311. 404.	1706. 1549.
	1952	′ 560, ~	317,	612.	116,	78.	n.	0.	36,	17.	100.	424,	317.	Ž577.
	1953 1954	170. 461.	187. 476.	403. 268.	341 328	100, 239,	Ω. 34.	91. 30.	₽. 106.	n, 8,	D. 1⊍≞.	131. 500.	511. 518.	1934. 3131.
	1955	351	197	271.	239	136.	105.	319.	0	94.	1 16	323.	230.	2486.
	1956 1957	250. 285.	302. 278.	19A. 481.	150. 162.	45, 73,	146	105. 70.	37. 21.	n. 12,	131.	754. 99.	342. 356.	1950. 1843.
	1958	246 350	347. 381.	195. 286.	236. 109.	148. 232.	44, 19.	188. C•	36. O•	24. N.	40	57. 243.	418. 298.	1966. 1958.
	1960	140.	3/0.	295.	177.	52.	12.	69.	0.	0.	46	199.	178,	1548,
	1961 1962	405. 57n	786. 139.	232. 378	259. 165.	147. 50.	>2.	18.	ņ. 5.	0.	n.	132. 233.	439. 504.	185 n. 2205
	1963	>87	217.	486.	120	n.	0.	0.	٠,	0	0.	73.	429.	1672.
	1964 1965	165	197 760	290. 200	174 150	69.	57 n	a. n.	6.	12.	206 0	190 135	188 547	1616. 1525.
	1960	295	444	334.	78,	۶ı.	ο.	0.	Q.	₽•	144.	84.	346	1825
	1947 1968	222. 345.	436. 299.	87. 296.	27. 295.	0. 205.	2/5,	0. 142.	22.	n. 11.	ր, ა1.	38R. 49.	592. 347.	1752. 2315.
	1969 1976	ځن. وو	3 н 37-	472. 271.	153. 243.	15. 105.	2n.	0	n n	0 25	15. 50.	124. 311.	37n. 277.	1782. 1885.
	1770	• •	37		,	10.4		•// •	, ,,	* * *				
		- Ar. 5	նմանն։ Մ		•••								PEAN	1970.
	YEAR	JÁ!!	Fig.	MAR.	₹₽# •	MAY	コレット	July	Atjoing	SEP.	oct.	NOV.	nec.	TOTAL
	1950	421.	4ល់ង្គ	214.	248	212.	123.	41.	17.	0.	41.	71.	298.	2086.
	1951	173. 710.	1 19	104. 533.	16. 21.	108. 158.	127.	8, U.	34. 24.	32	17.	131. 581.	463. 114.	1364. 1915.
	1 473	110.	214.	234	167.	278"	D .	143.	r.	€.	ο.	247.	297. 276.	1850.
	1954	404. 275.	349, 257,	189. 150.	297 179	201. 113.	81. 147.	47. 224.	16 ⁵ . 7c.	54. 102.	171.	416. 499.	231.	2668. 2337.
	1950	525	222.	3n.	74,	54 75	21Λ. 34.	142.	1,74	۰,	Mp.	167.	269. 365.	1754,
	1957	1 ⁹² 270	26 7 253	525 427	11 ⁰ 12 ⁶	1/1	∠Ř.	151. 71.	17. 39.	a.	63. 24.	221. 47.	453	2013. 1900.
	1959 1960	, yji (46	1/2	184. 786.	46 210	424 258.	94 58	36	0.	o.	7G 49	292. 292.	390. 234.	1984. 195n.
	1961	4 J	295,	177	P.n.C	123,	٥.	0.		n.	D.	135.	367.	1694
	1962	197	419	202. 159.	739 175	23. 13.	3n 7	59. D.	15r.	n. o.	55	342 01	509 452	2284. 1708.
	1054	224.	102.	105	104	105	□ 8 •	o.	c.	54.	3/2.	195	202.	1720.
	1705	717	176	256. პეդ.	ўн 141.	115.	Π. 684	0. 0.	0.	O.	ը. 51.	93. 93.	511. 294.	132n. 1869.
	1929	, 40 , 56	227 225	215.	107	115. 38. 252.	5< H.	298	37	f1 •	, б Ун	82.	373.	128A 2564
	1768	11.	377	404. 517.	115.	75	Α,	7:	37. fi	n.	в×.	146. 195.	399	1990.
	1970	130.	214,	74A.	₹1₹.	123.	41.	17,	n.	41.	71.	294.	252.	1917,
													MEAN	1904.
		• N°. 0	Theppare	::		•								
	YEAR	JAN.	Figure	~ ~^~.	APR.	-AY	JUNE	JUL	∡ագ.	StP.	oct.	NOV.	b≒c.	TOTAL
	1950	.157	.c76.	197.	309.	766,	145.	41.	32.	σ.	54.	74.	300.	2131.
	1951	445	337.	70.	57,	40,	03.	29,	10.	პ6,	44.	110.	398	1637.
	1952 1953	194. 289.	494. 259.	44g. 424.	31. 337.	138. 331.		0. 132.	11. 6.	12.	14r. n.	525. 93.	391. 263.	2576. 2139.
	1954	%00. 240.	355. 429.	267. 225.	166. 288.	175. 157.	7A. 93.	12. 243.	۸9. فغ	39. 14H.	¥7.	455. 36H.	430. 5.0	2686. 2921.
	1956	350.	299	69,	54.	20.	119,	142	104	41	132. 191.	743	512. 341.	1936
	1957	365. 246.	414. 355.	304. 414.	175. 277.	97. 237.	₽. >J.	152. 46.	34. 44.	n. 86.	0. 23.	88. 102.	513. 487.	2156. 2374.
	1959	266,	129.	381.	44,	255.	77.	۸.	2.	n.	115.	199.	503.	2056.
	1960 1961	705.	539. 294.	420. 225.	237. 250.	300. 146.	/n.	16.	1.	72.	η, n,	284. 173.	271. 468.	2571. 2029.
	1962	594.	199.	364.	203.	148. 34.	26.	პი.	35.	0.	46,	261.	412.	2327.
	1963	789.	364. 191.	205.	61, 147.	43.	112.	0. 9.	14.	?. 5.	46. 443.	27. 188.	401. 290.	1566. 1977.
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1951	1950	10 مو	ins.	252.	161.	142.	284.	50.	181.	0.	54.	79.	161.	1756.
1952		404					- 1-	75	A 6	4		26	674	3244.
1954 83, 779, 783, 1126, 370, A31, 170, 55, 14, 120, 309, 317, 779, 1955 104, 210, 233, 192, 103, 218, 507, 197, 25, 356, 405, 339, 2949, 1956 320, 183, 53, 95, 88, 52, 248, 180, 5, 71, 175, 268, 1750, 1957 110, 272, 372, 33, 41, 1, 326, 31, 5, 6, 71, 286, 1750, 1958 111, 26, 320, 74, 222, 190, 111, 114, 76, 196, 65, 491, 1960, 1959 235, 775, 360, 64, 168, 68, 60, 0, 0, 0, 7, 98, 560, 1875, 1960 335, 183, 239, 203, 163, 118, 46, 8, 14, 79, 213, 230, 1637, 1961 347, 286, 221, 277, 172, 6, 4, 46, 8, 14, 79, 213, 230, 1637, 1962 326, 729, 520, 365, 0, 35, 0, 0, 0, 71, 240, 417, 2194, 1963 174, 235, 439, 100, 0, 35, 0, 0, 0, 71, 240, 417, 2194, 1963 174, 235, 439, 100, 0, 0, 0, 0, 0, 17, 240, 417, 2194, 1965 127, 305, 69, 138, 54, 0, 0, 0, 0, 0, 10, 10, 10, 10, 10, 10,	1950	476	5.7.	380	61.	1.9		ο:	.55.	594.		404.	Bas.	3689.
1954 83, 779, 783, 1126, 370, A31, 170, 55, 14, 120, 309, 317, 779, 1955 104, 210, 233, 192, 103, 218, 507, 197, 25, 356, 405, 339, 2949, 1956 320, 183, 53, 95, 88, 52, 248, 180, 5, 71, 175, 268, 1750, 1957 110, 272, 372, 33, 41, 1, 326, 31, 5, 6, 71, 286, 1750, 1958 111, 26, 320, 74, 222, 190, 111, 114, 76, 196, 65, 491, 1960, 1959 235, 775, 360, 64, 168, 68, 60, 0, 0, 0, 7, 98, 560, 1875, 1960 335, 183, 239, 203, 163, 118, 46, 8, 14, 79, 213, 230, 1637, 1961 347, 286, 221, 277, 172, 6, 4, 46, 8, 14, 79, 213, 230, 1637, 1962 326, 729, 520, 365, 0, 35, 0, 0, 0, 71, 240, 417, 2194, 1963 174, 235, 439, 100, 0, 35, 0, 0, 0, 71, 240, 417, 2194, 1963 174, 235, 439, 100, 0, 0, 0, 0, 0, 17, 240, 417, 2194, 1965 127, 305, 69, 138, 54, 0, 0, 0, 0, 0, 10, 10, 10, 10, 10, 10,	1955	271.	271.	278.	334	427		2 A		ń.		67,	178,	1881.
1955 104, 219, 233, 192, 103, 213, 507, 197, 25, 356, 405, 339, 2949, 1956 326, 163, 53, 95, 88, 52, 248, 150, 5, 71, 175, 268, 1750, 1957 100, 272, 372, 33, 41, 1, 326, 31, 5, C, 71, 286, 1750, 1958 111, 26, 320, 76, 227, 190, 111, 114, 76, 156, 65, 491, 1960, 1959 235, 275, 350, 54, 168, 68, 60, 6, 7, 98, 560, 1875, 1960 335, 163, 239, 203, 163, 118, 46, 8, 14, 79, 213, 230, 1837, 1961 471, 286, 221, 277, 172, C, d, C, B,		83.				37p.			55.		126.	389.	317,	4799.
1956 320, 183, 53, 95, 88, 52, 248, 180, 5, 71, 175, 268, 1750, 1957 110, 272, 372, 35, 41, 1, 326, 31, 5, 0, 71, 286, 1750, 1958 111, 26, 320, 74, 222, 190, 111, 114, 76, 156, 65, 491, 1960, 1950 235, 275, 350, 54, 168, 68, 60, 9, 9, 9, 7, 98, 560, 1875, 1960 335, 163, 230, 203, 163, 118, 46, 8, 14, 79, 213, 230, 1637, 1961 471, 286, 221, 277, 172, 0, 0, 0, 0, 0, 14, 79, 213, 396, 1936, 1962 326, 229, 520, 365, 0, 35, 0, 0, 0, 0, 71, 240, 417, 2194, 1963 174, 235, 439, 160, 0, 0, 0, 0, 0, 0, 133, 396, 1936, 1963 174, 235, 439, 160, 0, 0, 0, 0, 0, 0, 15, 194, 1157, 1964 134, 205, 356, 822, 197, 182, 0, 0, 0, 0, 0, 110, 263, 1246, 1965 107, 305, 60, 136, 54, 0, 0, 0, 0, 0, 0, 110, 263, 1246, 1966 256, 316, 300, 200, 24, 126, 0, 0, 0, 15, 154, 2553, 1966 255, 704, 302, 396, 510, 223, 258, 55, 6, 177, 281, 541, 3038, 1960 285, 704, 302, 396, 510, 223, 258, 55, 6, 177, 281, 541, 3038, 1960 281, 122, 313, 194, 62, 42, 10, 0, 0, 53, 79, 181, 271, 2037, 1970 403, 752, 101, 142, 284, 50, 181, 0, 53, 79, 181, 271, 2037,		104.		233.	192.		213.	507.	197.		356,		339.	2940.
1998 111 20 320 7n 227 190 111 114 76 156 65 491 1960 1959 235 775 350 54 165 68 60 0 0 0 0 7 98 560 1875 1960 335 169 235 205 163 118 40 8 14 79 213 230 1837 1961 471 286 211 277 172 0 0 0 0 0 0 133 396 1936 1936 1962 326 220 520 305 0 35 0 0 0 0 0 0 0 0 0 133 396 1936 1936 1964 134 205 356 429 197 182 0 0 0 0 0 0 15 194 1157 1964 134 205 356 62 197 182 0 0 0 0 0 0 136 136 134 2353 1966 1966 1966 256 316 300 200 24 126 0 0 0 0 0 10 0 0 10 0 0 10 0 10 0 1		320.		5.5			57.	248.	180.		71.	175.		1750.
1958 111. 25. 320. 74. 222. 190. 111. 114. 76. 156. 65. 491. 190. 110. 114. 76. 156. 65. 491. 190. 116. 116. 116. 116. 77. 187. 1875. 190. 114. 79. 213. 230. 1875. 1937. 190. 116. 1875. 1875. 1936. 1936. 1937. 1937. 192. 193. 1937. 1936. 1936. 1936. 1936. 1936. 1936. 1936. 1936. 1936. 1936. 1936. 1936. 1936. 1936. 1936. 1936. 1936. 1946. 115. 194. 115. 194. 115. 194. 115. 194. 115. 194. 115. 194. 116. 194. 116. 194. 115. 194. 115. 194. 115. 194. 115. 194. 115. 194. 115. 194. 115. 194. 115. 194. 115. 194. 115. 194.					35.					5.		71.	296,	1/50.
1960 335, 157, 239, 203, 163, 118, 46, 8, 14, 79, 213, 230, 1637, 1961 471, 286, 221, 277, 172, 0, 0, 0, 0, 133, 396, 1936, 1940, 326, 326, 727, 520, 365, 0, 35, 0, 0, 0, 0, 71, 240, 417, 2194, 1963 174, 235, 439, 188, 0, 0, 0, 0, 0, 0, 0, 15, 194, 1157, 1964 134, 205, 356, 522, 197, 182, 0, 0, 0, 0, 136, 134, 2553, 1965 147, 305, 69, 138, 54, 0, 0, 0, 0, 0, 110, 263, 1246, 1966 256, 316, 300, 200, 24, 126, 0, 0, 0, 10, 10, 10, 263, 1246, 1966 256, 316, 300, 200, 24, 126, 0, 0, 0, 15, 05, 110, 263, 1246, 1966 265, 704, 302, 396, 310, 223, 258, 55, 6, 177, 281, 541, 3038, 1969 281, 122, 313, 194, 62, 42, 10, 0, 0, 157, 281, 541, 3038, 1969 281, 122, 313, 194, 62, 42, 10, 0, 0, 53, 79, 161, 271, 2037, 1970 403, 752, 101, 142, 284, 50, 181, 0, 53, 79, 161, 271, 2037,		111.	25.		7년.	222.	1,0.		114.		120.	95.	471.	1700.
1960 335, 185, 230, 203, 163, 117, 46, 7, 216, 230, 230, 1936, 1996, 1996, 471, 286, 221, 277, 172, C, G, C, N, G, T, 240, 417, 2194, 1963 174, 235, 439, 198, 0, O, O, O, O, O, T, 240, 417, 2194, 1963 174, 235, 439, 198, 0, O,		335	275	200	84.		øn.	00.	₽.		-/.	90.		10/7.
1962 326 727 520 305 0 0 0 0 71 240 417 2194 1963 174 235 439 100 0 0		335	163	239	205.		11 ^R •				/*.	210.	70D.	100/
1963 174, 235, 430, 100, 0, 0, 0, 0, 0, 0, 15, 194, 1157, 1964 134, 205, 356, 522, 197, 192, 0, 0, 0, 0, 136, 136, 134, 2553, 1965 107, 305, 69, 138, 54, 0, 0, 0, 0, 0, 0, 110, 263, 1246, 1966 256, 316, 300, 200, 24, 126, 0, 0, 20, 20, 540, 363, 2053, 1967 392, 215, 76, 85, 42, 0, 0, 0, 153, 65, 512, 1538, 1968 265, 704, 302, 396, 310, 223, 258, 55, 6, 177, 281, 541, 3038, 1969 281, 122, 313, 194, 62, 42, 10, 0, 0, 17, 281, 541, 3038, 1969 281, 122, 313, 194, 62, 42, 10, 0, 0, 53, 79, 161, 271, 2037,		4714		221,	27/		٠2٠				0.	100.		7,04
1964 134 205 358 52 197 182 0.				220.										1447
1965 107 305 69 138 54 0 0 0 0 0 110 253 1275 1967 392 215 76 85 120 225 258 55 6 177 281 541 3036 1969 281 122 313 194 02 42 10 0 0 54 59 293 1480 1970 403 752 101 142 284 50 181 0 5 53 79 181 271 2037		174		439.	100.	₽•	, no.							2553
1966 256, 316, 300, 200, 24, 126, 0, 0, 20, 56, 340, 363, 2053, 1967 382, 215, 76, 85, 42, 0, 0, 0, 153, 65, 512, 1588, 1968 285, 704, 302, 396, 310, 223, 258, 55, 6, 177, 281, 541, 3038, 1969 281, 122, 313, 194, 62, 42, 10, 0, 54, 59, 293, 1480, 1970 403, 752, 161, 142, 284, 50, 181, 0, 53, 79, 181, 271, 2037,		104	207.	220	772	177	3454							1246
1987 392 215 76 85 42 0. 0. 0. 153. 05 512 1588. 1968 785, 704, 302, 396, 310, 223, 258, 55, 6, 177, 281, 541, 3038, 1969 781, 122, 313, 194, 02, 42, 10, 0, 0, 54, 59, 293, 1480, 1970 403, 752, 101, 142, 284, 50, 181, 0, 53, 79, 181, 271, 2037.	1044	201	30°	300	10",	4	U 4.			20	66	340	363	2058
1968 785, 704, 302, 396, 310, 223, 258, 55, 6, 177, 281, 541, 3086, 1969 781, 122, 313, 194, 62, 42, 10, 0, 0, 54, 59, 293, 148p, 1970 403, 757, 161, 142, 284, 50, 181, 0, 53, 79, 161, 271, 2037,		305	9.8	270.	. 489							45		1588
1969 281, 122, 313, 194, 62, 42, 10, 0, 0, 54, 59, 293, 148p, 1970 403, 752, 161, 142, 284, 5p, 181, 0, 53, 79, 181, 271, 2037.		285	204	302	396		223.	258	55.	6.	177	281	541.	
1970 203, 757, 161, 142, 284, 50, 181, 0, 53, 79, 181, 271, 2087,										0	54,	59.		
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1961 1962 1963 1964 1965 1966 1967 1968 1968 1970	30H 474. 291. 123. 123. 392. 134. 899. 899.	267. 184. 398. 176. 279. 258. 259. 220.	235. 197. 268. 587. 207. 248. 171. 580. 696.	737. 185. 99. 239. 129. 1297. 105. 111. 169.	147. 111. 0. 111. 39. 27. 4. 4.9. 111. 278.	0. 21. 0. 55. 0. 0. 404. 434. 48.	n. 17. 8. 4. 25. 0. 6. 261. 0.	n, 32, r, n, n, 155,	0. 0. 11. 2. 19. 19.	0. 114. 114. 10. 449. 144. 213. 55. 144.	14R. 13R. 17. 214. 214. 244. 142. 349. 175.	450. 554. 221. 256. 271. 609. 462. 609. 307.	1847, 1931, 1294, 234, 2348, 2231, 1689, 3930, 2553, 3363,
6 6 B	, -	KEPAN'S		*** ::::::::::::::::::::::::::::::::::	~.*	0.1916	1.11 ¥	A1-6	ناس	O(.)	MAV.	MFAN	2144.
YEAR U 19512 19514 19514 19514 19514 19514 19554	## ###################################	777. 527. 527. 527. 527. 527. 527. 527. 547. 557. 577. 574.	221. 149. 3583. 157. 2157. 2110. 5203. 4109. 2111. 406. 2301. 140. 2301. 3419.	72. 122. 122. 135. 135. 135. 251. 160. 289. 120. 137. 137. 201. 175.	75. 13. 40. 245, 245, 245, 200. 101. 42, 101. 537. 131. 53. 10. 37. 10. 37. 10.	102. 112. 5. 74. 109. 4. 100. 127. 6. 6. 127. 6. 127. 6. 127. 6. 127. 6. 127. 6. 127. 6. 127. 6. 127. 6. 70. 127. 6. 70. 70. 70. 70. 70. 70. 70. 70	36. 24. 38. 12. 487. 256. 454. 93. 59. 0. 0. 157. 15.	15. 7. 34. 151. 122. 144. 10. 22. 0. 13. 0. 17. 0. 22. 0. 0.	9. 19. 15. 46. 57. 46. 57. 6. 77. 6. 77. 6. 77. 6. 77. 6. 77. 6. 77. 6. 77. 6. 77. 77	0. T.	79. 2P. 42P. 104. 54P. 55P. 155. 194. 457. 167. 167. 167. 186. 140. 314. 314. 379.	79. 237. 205. 593. 593. 622. 306. 489. 595. 597. 528. 524. 324. 334. 342. 329.	TOTAL 1184. 1287. 1802. 1802. 1645. 2790. 2803. 2108. 2308. 2304. 2248. 2248. 1992. 1402. 2049. 1402. 21520. 1523. 2108. 2763. 1523.
YEAR	. K(.12 J45.	KESANFI	E" MAH.	APH.	-A Y	JUNE	JULY	جارية	SEP.	aut.	NOV.	nec.	TOTAL
1951 1952 1953 1955 1955 1956 1958 1963 1963 1963 1965 1966 1966 1966 1960	714. 714. 717. 717. 707. 707. 707. 707. 707. 707	04577	21444. 2444. 2244. 2105. 3109. 472. 3190. 3190. 3190. 3190. 3174. 310.	200 200 200 200 200 200 200 200 200 200	1 1 5 6 2 8 0 0 0 7 7 9 7 2 5 7 3 1 4 6 6 7 2 4 8 8 1 2 5 8 8 8 1 5 6 9 1 4 6 9 1 6	104. 97. 3. 11. 24. 17. 78. 71. 71. 71. 74. 29. 10. 29. 10. 27. 28. 17. 28. 29. 20. 20. 20. 20. 20. 20. 20. 20	57. 1. 31. 18. 318. 410. 57. 4. 30. 0. 0. 0. 146. 20.	20. 13. 221. 184. 174. 174. 17. 0. 55. 0. 55. 0. 55.	7. 14. 70. 182. 65. 10. 11. 12. 13. 10. 14. 17.	147. 190. 194. 194. 40. 117. 25. 115. 451. 171. 190. 190.	106. 319. 319. 615. 615. 140. 17. 3140. 168. 168. 168. 168. 168. 168. 168. 168	271. 531. 531. 280. 673. 328. 470. 459. 431. 496. 203. 442. 714. 70. 131. 746. 466. 465. 305.	2036. 1784. 2605. 1727. 3399. 3597. 189n. 2038. 22143. 1617. 1902. 1428. 2015. 2773. 1853. 3181. 1714.

	N-0 - 13	BIRONO						-					
				. 60		arthu.			61.0	007	NOV		TOTAL
YEAR	JAY.	£€∃,	MAR.	APH,	MAY	りのなる	JULY	AUG.	eFb.	nuT.	NDV.	DEC.	IVIAL
195p	257.	336,	217.	173.	208.	234.	72.	45.	0.	16.	86.	260.	1904.
1951	100	451.	218.	46.	3.	84.	10.	0.	7.	0.	10.	254.	1259.
1952	402.	339.	309.	ao.	124.	Ď•	1.	22.	13.	100.	336.	244.	1970. 1268.
1958	141 56H	246	221.	110. 283.	313. 277.	40.	23.	78.	40.	59:	77. 433.	132. 617.	2797
1954 1955	221	212.	167. 173.	276	163	202.	339	120.	83	201	772.	280.	8107.
1956	283	165	144.	bā.	100.	Ÿ2.	168.	134.	75.	51.	142.	705.	1787.
1957	. 294	305	207	75.	29.	13,	296,	35.	n.	c.	77.	278,	1612.
1958	92.	306	153.	98.	134.	39.	58,	41.	, ÿ,	30.	171.	338.	1467, 1718.
1959	453 232	154	340. 274.	56.	°2. 191.	66, 26.	15. 23.	0.	16. 69.	0. 0.	120. 110.	408. 333.	1626.
1960 1961	166	140.	21.5	172. 193.	¥9.	0.	σ.	ő.	0.	0.	23.	254	1454.
1962	خرزى	253	213,	75.	108	1 ⁸ •	g.	14.	n.	43.	64.	517.	1641.
1463	127.	101.	414.	66.	10.	n.	0.	_0.	n.	5,		271.	1200.
1964	187	148	406	217.	49	36;	ņ.	20.	44.	509	338. 174.	66. 256.	2100. 1931.
1965 1966	537. 35p.	282. 370.	533. 450.	121.	14. 13.	14. 65.	() . () .	o. 2.	n.	13.	307	05.	2510.
1967	424	260	205.	32	15,	0.	Q.	0.	9.	12.	94	427	1606.
1968	ığı.	2011 27	27A.	764.	291	102.	190 •	٠.	ån.	1 J 5 •	192.	528.	2837.
1969	>0 9 *	101.	701.	210.	35.	48.	0.	G •	17.	47,	119.	227.	1294,
1970	436.	217.	173.	20 ^h •	234.	77.	45.	r. •	16.	ъ6.	260.	256.	1976.
												MEAN	1861,
•••	147 - 14	DINO		***									
YEAR	das.	FHH.	MAR.	spie.	MAY	JUNE	JULY	AUG.	SEP.	out,	NOV.	DEC.	TOTAL
			••••						·	_			
1950	-15.	695 245	203.	270.	267	255.	68.	23.	<u>,</u> n.	1 u 7 ,	13 ^H ,	366	2187. 1541.
1 v 5 1 1 9 5 2	~∪4 •	647, 647,	167. 617.	119.	22. 245.	107,	3.	27 61.	23 52	31. 218.	42. 534.	531. 533.	3635.
1453	5	252.	479	165	357.	n.	72.	4	r.	10	316.	519	2494
9 654	4.5	35.5	269	2.26	303.	¥3.	26	242	109	140	913	626	3765.
1955	.t111	51.7	354.	386.	172.	171:	509.	202.	77.	172.	694.	351.	3768.
1770	115	265	146.	21 H •	2.7.	122.	277.	274.	57.	251.	311.	516.	3009.
1957	120.	263.	388. 344.	23. 188	104.	12.	410. 272.	გგ. გზ.	პრ. პ5.	1/4.	227. 309.	231. 552.	2047. 2653.
1650 1659	ನವರೆ. ಕರಿಣ.	265 542	361	184	409.	75.	26	11.	124	76	343.	461.	2857
1940	519	434	358.	272	216	93,	40.	26.	10.	137.	468.	247.	2690.
1961	463,	254	244.	373.	213.	F .	0.	ŋ.	n.	ប្	216.	500.	2283,
1962	495	291.	285.	457,	08,	46.	46.	150	o.	149	329.	765,	2941.
1955 1964	464 . 462 .	252	5⊕ 412	236 447	204.	143.	0.	14.	7 P	26. 513.	164. 715.	372. 278.	1847. 2620.
1 105	377		199	115	1/7	2.0	(1.	0	0	5.	10 ⁸	413	1674.
1966	293	464	420	តិភូមិ ភ ិ	¥8.	155.	tì •	٠,	4.	140.	288.	674.	2955.
1967	105.	121.	220.	196.	68 €		n.		Ū•	₫Ė.	170	537.	1950.
1968	101.	346	668	261.	304	45.	301.	93.	47.	1 ⁷³ +	395.	507. 456.	3805. 2472.
1969 1970	495.	249. 203.	413. 270.	572. 267.	76. 255.	68,	₽. 23.	12.	107	138.	332 ·	492.	2684
1			•	•					,	•- •	•	• •	
												MEAN	2685.
***	4.415	Shafik		***									
YEAR	JA" .	FER.	444	APH.	#Ay	りりから	JUL Y	AUG.	SFb.	oct.	NOV.	DEC.	TOTAL
1465=		555	4.0	291.	394.	176.	4.00	a		58.	205.	245.	2253.
1950 1951	-10. 584.	32.3	11 ⁴ .		53	144	198. 66.	0. 21+	9.	25	72	821	2584
1452	694	737	217 512	212. 82.	235	22.	Α.	21.	42 93	175	540	821	3939.
1953	270	514.	605.	174.	435.	17.	96.	٠.	п.	η.	605,	709.	3156,
1954	~77,	5.6	490.	257.	3.5	103,	34. E76	201.	115.	28Å.	604. 945.	763.	4483, 5139,
1955 1956	489	444	374	414. 278.	217. 117.	34n. 209.	575. 37g.	132. 184.	139.	.554 400	562	571. 492.	3797
1957	3/12	471	727	257	101	0	211.	0.	n.	23	263	384	2749
1958	고달리.	421.	374.	400.	104.	8 1 ·	247.	89.	63.	200.	52n.	608.	3635,
1959	453	357,	451.	139	362.	12.	22.	o.	51.	144.	211.	679,	2911.
1960	693 ₄	150.	458.	456	319	124,	26.	38.	11.	. C.	778. 415	290.	3490.
1961 1962	167. 404.	249. 175.	67. 277.	362. 500.	138. 357,	Ω. 9.	0 •	0.	0. n.	17. 36.	415. 176.	401. 456.	2016. 2566.
1963	127	ua.	328,	415	0	0.	0.	ť.	0.	15.	108.	683	1777.
1964	123.	431,	301.	412.	241.	37.	0.	Đ.	304.	952.	219.	284.	3254,
1965	332.	225	56.	43,	232.	15,	0.	0.	0.	0.	121.	288.	1307.
1966	460	366. 320	574	574	74.	0 •	0.	33.	٥,	128. 108.	306. 367.	295. 384.	2812. 1892.
1967 1966	311. 71 ⁴ .	320. 81.	152. 363.	250. 320.	189	193.	0. 272.	(). 42.	142.	204.	486	422.	2988
1969	502.	257	539	117.	0	24.	0.	ō.	16.	36.	169.	611.	2268.
1970	553	118	201	394	176	198	0.	0	43.	205.	245	Ö	2272.
a.	. 4	e .	÷									MEAN	2953.

	NO.16											·	÷	
وعلستير					,		*							
YEAR	ηΨή* γιά+30	WLjNGI FER.	MAR.	eee APR.	HAY	JUNE	JULY	∆UG,	SEP.	nct.	NOV.	DEC.	TOTAL	
1950 1951	217. 268.	311.	216. 175.	176. 187.	207. 52.	219.	89. 66.	პი. 20.	n. 49.	181. 23.	106. 77.	410. 579.	2162. 2042.	
952	482.	424. 611. 242.	412. 541.	72, 256,	194. 327.	18.	8. 31.	20.	108	107,	576. 224.	579. 397.	3247. 2343.	
954 1955	326, 202,	757.	202.	278. 358.	217. 134.	208.	41. 323.	155. 175.	237.	124. 188.	703, 725.	649. 320.	3252.	
1956 1957	191.	126. 248.	146.	181. 88.	100.	181.	20°.	201.	0.	257,	313.	445. 363.	2595. 2076.	Ţ
1958	701. 473.	248. 428.	269, 411,	340. 170.	56. 472.	128.	241	35.	23. 60.	127.	282. 27J.	440. 464.	2321. 2934.	
1960 1961	379. 264.	227. 224.	226. 331.	569. 252.	295. 107.	113.	16.	28. n.	4.	66. 26.	402. 211.	214. 506.	2539. 1941.	
1962 1963	400. 281.	270. 284.	329. 343.	272.	56, 23.	74.	48.	υ.	o.	90. 21.	369. 114.	568. 243.	2574, 1534,	
1964 1965	111. 398.	162.	381. 202.	354. 205.	132.	147. 24.	5. 0.	#. r.	45.	575. 21.	161. 302.	293. 283.	2393. 2041.	
1966 1967	297.	525. 201.	682. 270.	363. 142.	58. 60.	131.	Ü•	17.	ø. n.	64. 26.	452. 152.	774. 434.	3363. 1726.	
1968 1969	3424	202.	254. 236.	253. 137	196 75	2/5. 38.	301. 12.	18. 57.	111	243	307.	387. 241.	295 ₀ .	
1970	111	216.	176.	207.	219.	49.	ðņ.	0•	181.	100.	410+	457,	2402.	
•••	Nº , 17	Fashay		***								MEAN	2480.	
YEAR	JAM	F£1.	MAR.	APH.	MAY	June	JULY	AUG.	SEP.	7UT.	NOV.	nec.	TOTAL	
1950 1951	123	753.	381. 122.	309. 12. 97.	163.	137.	34, 2ņ,	3₽. <u>n</u> .	13.	~ ć.	12.	184. 438.	1691.	
1952 1953	190°	216	259. 277.	50.	112. 226.	16. 8.	4,	3. 1.	n. 0.	171.	421. 11 ⁹ .	431. 191.	2683. 1196.	
1954 1955	232. 165.	210. 259.	104.	257. 143.	168. 249.	/0. 212.	249,	64. 65.	17. 33.	17. 176.	330. 722.	255. 495.	1734. 3404.	
1950	664. 235.	2,35. 466.	123. 246.	174. 76.	213. 24.	46.	176. 317.	13^. 24.	5. 10.	90. 24.	102.	479. 253.	2305. 178 ₀ .	
1958 1959	264. 429.	406. 179.	243. 376.	116.	42. 102.	34. 88.	6A.	26. 1.	27. 107.	٧٥. 12.	135. 61.	386. 452.	1776. 1942.	
1400 1401	-95 313	247 244	210.	-6н. 11 ⁴ •	534, 117,	⊅6. 8•	۶1. 0.	15.	3. C•	50. 5.	271 55	255 365	2081. 1468.	
1962	43n.	342	264. 491.	175.	-69; 4.	3 F	1.	0.	Ä.	34.	92. 22.	534. 246.	2004. 1995.	
1963 1964 1965	9 d 3	263,	321. 221.	154	148. 26.	/^, 2.	ñ. D.	2. D.	3Å.	474 . G.	111. 150.	295. 185.	1895. 1339.	
1966	228 465	455 247	334. 156	141. 71.	53. 10.	/n.	n. Q.	ž.	22. 0.	on.	258	58n 257	2183. 1155.	
1968 1969	149. 250.	124. 726.	29n 349.	47. 279.	260. 121.	272. 0.	67. 0.	n.	9.	13n. 173.	246. 203.	372.	1937. 1864.	
1970	360,	361.	309.	183.	137.	34,	39,	ñ.	65.	n,	184.	399,	2100.	
												MEWN	1901,	
***	N3,18	GANUM		***					- 5					
YEAR 1950	Ja". -10.	FE∺• 435.	[™] A ^R 253.	л ^{ря} . 255.	224.	JUNE 346.	JULY 57.	auG. 2.	SE ^P .	0uT. 74.	40V.	DEC. 169.	101 _A L 1951.	
1951	33 557	501 556	220. 496.	101	1,6. 91	144.	3 A .	3P.	70. 30.	36. 11 ⁴	358	576 576	1910. 2990.	
1953	161	329 145	332. 336.	247 33g	412 101	10. 21	5	9 9	0. 61.	14. 121	182	321 387	2041.	
1955	102. 254	243, 144,	160. 100.	152. 159.	154. 141.	11Å. 102.	217. 143.	131.	120 78	(83. 95	526. 226.	378 453	2 ⁷ 16. 2 5 44. 2094,	
1957 1958	305. 268.	720. 720.	307. 289.	135. 234.	64. HO:	82.	379. 164.	84. 35.	0. 59.	115	158. 333.	258 304	1910. 2182.	
1959	297.	423. 201.	346. 279.	59. 101.	229. 595.	185. 77.	21. 58.	0. 31.	5. D.	8. 90.	197. 291.	388. 201.	2163. 2354.	
1961	725. 276.	154 267	257. 431.	305. 263.	147. 32.	911	34.	ο. 4α.	9. 7.	199	74. 139.	607. 73p.	1803. 2477.	
1963	472. 165.	116. 137.	109. 417.	201. 237.	0. 129.	1 · 07.	0. 0.	19.	0. 33.	5. 428.	125	164.	1117.	
1965	311.	323. 425.	254. 438	146. 425.	87. 70.	11. 120.	0. 0.	9	0 • 1 •	79.	168. 302.	247. 564.	1551. 2815.	
1967 1968	372. 419.	282 506	223 757	259. 555.	26. 355.	346	235.	0. 11.	1 10	20. 42.	49 97.	259 269	1491. 3602.	•
1969	201	191.	235.	203.	7. 346.	26.	4.	0.	13. 74.	54. 146.	135.	442.	1571. 2245.	
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•••	* NO.19	BADAK	. '	• • •						•		•	
YEAR	JAN.	FER.	HAR.	APR.	HÂY	JUNE	JULY	AUG.	SEP.	OUT.	HOV.	nec.	TOTAL
1950	-10.	623.	407	535.	410.	290.	183.	60.	0.	45.	204.	562.	3357,
1951 1952 1953 1954 1955 1956	426. 726. 205. 510. 328. 376.	596. 661. 329. 338. 221. 277.	274. 618. 604. 184. 262. 134.	62. 172. 208. 172. 435. 133.	1/7. 111. 363. 290. 136. 303.	175. 12. 15. 60. 201. 305.	23. 1. 51. 0. 326. 135.	11. 19. 2. 128. 233. 208.	38. 16. 0. 229. 721. 39.	17. 54. 0. 327. 747. 714.	56. 170. 435. 942. 597. 553.	544. 544. 432. 600. 465. 522.	2399. 3084. 2844. 3780. 4252. 3199. 3266.
1957	397. 456.	329. 329.	631. 322.	729. 320.	135, 171.	23. 99.	238, 187,	81. 269.	20, 105.	439.	137.	559.	3616.
1959 1960	578 429	540. 194.	634. 368.	433. 305.	306, 412,	249. 43.	123. 0.	74.	42.	106. 87.	232. 71 ⁸ .	444, 232,	3477. 3125.
1961	292 388	247. 254.	528. 755.	295. 508.	77. 297.	П. 99.	0. 46.	0. 83.	n. n.	06. 159,	241. 457.	630. 677,	2376. 3733.
1963	420. 351.	455, 374,	271. 462.	259. 345.	96. 369.	∯• 195•	0 • 0 •	0: 113:	0. 211.	52. 748.	406. 243.	416. 231.	2435. 3642.
1965	472.	41 Å . 497	295. 520.	165.	179.	5. 149.	0. 11.	ņ.		36. 287.	259. 205.	652. 345.	2679. 2930.
1966	311.	274.	220.	523.	143,	a. 324.	0. 543.	99	1 0	6. 453.	5υ°. 476.	508. 463.	2495. 3788.
1968 1969 1970	123.	246. 23 <u>3</u> .	414.	322.	3ე6, 83,	20.	6.	13.	26	147	547, 562.	283. 382.	2758. 3749.
19/0	453 *	407,	533,	410.	590·	183.	٥٥.	***	• / •	£ 0 ° •		MEAN	3171,
••	+ M□.20	9E+. 1066	114E	•••									
YEAH	JAN.	Fén.	MAR.	. APR.	*47	りつかに	July	≜ įį iš "	ŞE₽.	ost.	NOV.	nec.	TOTAL
1950	-10.	404.	181.	348.	394.	100.	0. 84	ο. P.	27.	۵٧. <u>6</u> .	76. 5.	251. 370.	1863. 1506.
1951	138	310. 8 ₁ 3.	132	50. 123.	169. 1 ⁷ 3.	245. 18.	12.	3.	n.	2.7.	44 ⁸ ,	413 292	2960. 1607.
1953	129. 386.	234. 164.	309. 210.	107 297	302. 175.	28. 77.	8. 3.	3. 86.	9. 57.	19 19	126. 465.	379.	2394.
1955	105. 279.	219. 140.	163. 129.	262. 150.	171. 88.	180. 184.	234. 159,	117.	10 ^A .	159. 96.	457. 92.	291. 412.	2444. 1801.
1957	247	250.	275.	137	30.	n.	317.	3.7	n.	4 9	157. 201.	721. 797.	1671. 1859.
1958 1959	197.	25] 276	340 345	239. 92.	107. 172.	າດ. 171.	104. 16.	0.	21. 27.	5	140.	382.	1903.
1960	447	237	302.	162.	432,	17.	85.	17. C.	ტ. ტ.	113. 5.	238. 48.	155. 435.	2248. 1531.
1961	269. 426.	256. 179.	27 ₀ . 237.	1 ⁷⁰ + 224•	49,	۸. 88.	12. 13.	21.	r.	141	226.	291	1915
1963	311	271.	255.	220	0+ 264	1. 130.	0.	n. 4.	0 45	409	5. 135.	155.	1223. 1996.
1964	131.	102. 38a.	318 184	715. 91.	41.	100	0.	n	0.	ο.	150.	175.	1397.
1900	25F.	361.	417.	396. 129.	>0∙ 33•	81. D.	0 •	4. E.	6. D.	81. 26.	403, 34,	505 193	2562. 1398.
1967	335. 535.	377. 254.	271, 306,	298	171+	112.	155.	0.	58.	106	224	381.	2400.
1969	710. 164.	165. 161.	126 388	244 594	72. 100.	31	Q.	n.	53. 59.	24. 76.	125. 751.	277. 296.	1328. 2169.
	·											MEAN	1916.
YEAR	9# HÛ.21 JAN.	KAUEMA FAR.	MAR.	4PR.	-AY	JüyE	JULY	AUG.	SEP.	oct.	NOV.	nec.	TOTAL
1950	-1 ⁿ .	359	264.	520.	204.	110.	n.	15.	0.	39.	. 63,	259	1703.
1951	148 321	302 708	226 257	13	46 121	40 40	10.	9.	150. 0.	0 1 2 6	16 324	373 375	1470 2494
1953	206.	200.	404.	208.	219	6,	Q.	0.	9.	1.	68.	133.	1449.
1954	354 72 ⁹	235.	210. 266.	389. 365.	164,	27, 212,	17. 178.	58, 20	45	16,	259. 410.	326. 285	2056. 2585.
1950	786	182.	127.	100.	30	29	171.	٧7.	٥,	73.	110.	346.	1567
1957 1958	176. 116.	271. 271.	302.	35. 157.	52. 122.	40.	312. 44.	25. 11.	29.	9 37	134.	30A 379	1629. 1521.
2950	347	284.	345	111.	136.	67.	32.	n.	0.	0.	114.	565	1959. 1836.
1961	244. 229.	397. 10n.	171. 153.	171.	346. 125.	36, n•	9	5. 0.	0. 0.	96 D	171. 15	266 260	1113
1962	1 22	100 366	233.	384.	155.	44.	0. 4.	31.	ő.	156	110 76	370	2037 1236
1963	445	21 ⁹ . 100.	288. 271.	100. 1 ⁹ 2.	97.	0.	0. 0.	o.	68	445	1 - 4	453	1961
1965	277	541 307	314 535	150 94	17.	,0	0.	n. G.	n. 0.	17	2 ⁸ 277	161 373	1517 1929
1967	231 369	251	313	146	80.	0.	0.	. 0.	٥.	0.	25.	528	1712.
1969	151.	228. 171.	377. 279.	21 ^A . 264.	286. 57,	127.	49.	0 • 0.•	. О. П.	. 0	215.	331. 280.	2251.
1970	264.	264.	320	784.	110.	Ů.	15.	0	39,	63,	259	220,	1847.
										•	4	MEAN	1774.

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•••	NO.22.	. SRENGAT		•••									
YEAR	JAN.	fe9.	MAR.	APR.	MAY	コロルド	JULY	AUG.	S€°.	ngt.	HOV.	DEC.	TOTAL
1950 1951 1952	27 ₀ .	292. 474.	383. 263.	305	405 53	246	10.	0. C•	2. 0.	34. 42.	51. 50.	329. 200.	2199. 2014.
1953 1954	N11. 150. 470.	563, 435, 336,	556. 424. 288.	132. 101. 152.	213. 190. 354.	18. 7. 22.	10. 3. 2.	0. 1. 63.	0. 27.	172. 3. 78.	528. 91. 37n.	700. 165. 194.	3003. 1573. 2361.
1955	336,	169. 261.	197. 173.	137. 58.	145.	135. 178.	178. 206.	72ª.	116. 54.	73.	345. 118.	333. 304.	2282. 1934,
1957 1958 1959	142. 268. 395.	367. 367. 250.	343. 277. 402.	78. 104. 79.	11. 65, 123.	9. 24. 99.	190. 100. 13,	34. И. О.	0. 15. 0.	2. 1 ^M . 13.	167. 52. 267.	364, 309, 458.	1727. 1627. 2099.
1960 1961	361. 281.	212.	255. 245.	95. 157,	311. 77.	66. 0.	61. 0.	3. n.	ñ. a.	18. O.	197.	221. 731.	1795. 1191.
1962 1963 1964	495. 466. 211.	711. 171. 149.	218. 248. 337.	261. 136. 84.	75. 57. 121.	55. 57. 47.	40. 0. 0.	n. D.	0. 0.	141,	69. 10.	325. 44.	1890. 1159.
1965	232. 290.	345. 259.	187, 300.	62.	57. 0.	n •	0.	ր. Ո.	77. D.	318. 0. 0.	72. 84. 241.	131. 187. 914.	1542. 1154. 1940.
1965	424. 294. 197.	481. 311.	285. 298.	175.	314.	1>0.	0. 286.	n. 18.	0 .	105.	17. 145.	120. 408.	1502+ 2500+
1969 1970	92.	703. 363.	303.	X43. 4∪5.	147. 246.	14. 1p.	υ• •	1. F.	13.	27. 51.	329.	163. 247.	1622.
•••	NO.23	GAN IEKA	\ ~	•••								MEAN	1861.
YEAR	JAM	Frm,	MAR.	444.	MAY	غړدار,	AULY	≜ U(.	۹é۶.	net.	NOV .	nec.	TOTAL
1950 1951 1952	-17. 95: 279:	470. 167. 237.	355. 54.	435. 74.	6¥5. 37.	205. 34.	2, 19,	ŗ.	υ. η.	.n. 56.	30.	225. 206.	2438. 655.
1953 1954	71.	234. 264.	206. 320. 145.	57. 21 ⁹ . 187.	69. 64. 254.	n. p. <p.< td=""><td>0. 0.</td><td>n. n. of.</td><td>0. 0. 6.</td><td>79. (*) 22.</td><td>715. 84. 332.</td><td>706. 1⁷1. 235.</td><td>141 M. 1163. 1783.</td></p.<>	0. 0.	n. n. of.	0. 0. 6.	79. (*) 22.	715. 84. 332.	706. 1 ⁷ 1. 235.	141 M. 1163. 1783.
1955 1956	142.	150 194	171. 156.	709. 72.	42. 28.	117.	159. 146.	34. 153.	28. 10.	29. 29.	311. 144.	159. 255.	1809.
1957 1958 1959	188. 188. 421.	278. 278. 1.6.	424, 246, 351,	9 234 81	5, 77, 184,	2. 20. 98.	224, 71. 0.	20. 16. 0.	n. 3. n.	0. 22. 720.	87. 48. 249.	327. 359. 347.	1550. 1562. 2477.
1960 1961	210.	22". 214.	412. 165.	143.	353. 149.	12.	41. 0.	14	2. n.	16.	193	125. 264	1925. 117n.
1962 1963 1964	423. 464. 201.	465. 250. 234.	193. 291. 495.	322. 64. 1d3.	159. 9. 5.	/3. 41. 85.	22. 0. 0.	r.	n. n. 55.	121. D. Al3.	170. 5. 113.	253. 125. 258.	2121. 1197.
1965 1966	758. 878.	251. 473.	185. 45n.	270. 280.	196. 60.	r. 5.	n. 0•	n G•	n.	10.	55.	359.	2242. 2119. 347 ₀ .
1967 1966 1969	445. 686. 588.	455. 550. 425.	605. 1225.	365. 445.	735.	36A. 15.	150∙	() • 3 •	0.	0. 175.	6. 330.	420. 1165.	2666, 6 ₀₁ 8,
1970	477.	355	28g. 435.	420. 495.	205.	2.	0.	r.	59. 0.	20. 30.	28n. 225.	175.	2771. 2652.
												METH	2107.
YEAH	. 60,24 JAN.	TULUNDA FER.	MAR.	*** APH,	~AY	عناول	JULY	AUG.	SEP.	rat.	NOV.	DEC.	TOTAL
1950 1951	-1 0	419.	135,	244	262.	٥1,	60,	4.	n.	٤٥.	9.	226.	1434.
1952 1953	106. 260. 116.	757. 389. 3 ₃ 7.	110. 497. 331.	49 106 168	28. 192. 72.	229. 34. 8.	3?. 2. 4.	n. 0. 3.	1. 5. 0.	e. 199. C.	39, 271.	198. 155. 139.	1044. 2020. 1187.
1954 1955	35H 373 199	225. 131.	158. 212.	279	306. 64.	я. 1 ⁴ 2.	246.	43. 35.	3. 33.	193.	248. 208.	247. 252.	2023. 2164.
1956 1957 1958	130	151. 255. 266.	117. 213. 311.	135. 54. 18 ⁸ .	64. 0. 100.	71. 0. 14.	155. 356. 67.	103. 59.	n. 2. 7.	40. 0. 21.	67. 9#. 46.	264. 211.	1400. 1376.
1959 1968	619. 304.	267. 164.	288. 342.	53. 100.	143. 328.	133.	29. 12.	ð. 3.	n. 5.	0. 14.	82. 253.	261. 350. 85.	1477. 1884. 1610.
1961 1962 1963	274. 440. 469.	152. 368. 279.	89. 265. 379.	165. 263. 29.	136. .65. 9.	0. 27. 27.	0. 17. ·	n. c.	n . 2 .	0. 141.	170.	213. 316.	1037. 2094.
1964	53. 358.	725 158	68A. 149.	68.	105. 47.	#5. 0.	0.	n. e.	105. 0.	3. 30 ⁴ . 0.	9. 114. 7.	76. 97. 158.	1279. 2468. 970.
1966	321. 286,	747. 29%.	271. 162.	712. 178.	29.	n. n.	D. G.	0. P.	n.	19. 25.	119.	314.	1527. 1100.
1968 1969 1970	190, 240, 419,	130. 244. 135.	304. 103. 244.	209. 189. 262.	349. 03. 61.	236. 14. 60.	142. 0. 4.	21. 0.	0 • 0 •	47. 99.	105. 52.	347. 253.	2080. 1321.
							. * *	0.	20.	9,	224.	133.	1581.

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***	NO.25	BUTOĻYM	g u	***			•			4			
YEAR	JAN,	FEH.	MAR.	iPR.	MAY	JUNE (JULY	AUG.	SEP.	067.	NOV.	DEC.	1
1951 1951 1951 1953 1955 1955 1955 1955	-10 1390 2190 2192 2132 2132 221 221 221 221 221 221 221	189. 1824. 18324. 197	173. 176. 176. 1728. 1728. 175. 175. 175. 175. 175. 175. 175. 175	262 424 578 150 32 177 136 105 176 176 176 176 176 177 178 178 178	211. 07. 95. 303. 101. 02. 20. 41. 320. 136. 13. 121. 24. 44. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9	205, 0: 6: 6: 6: 6: 6: 6: 6: 6: 6: 6: 6: 6: 6:	20. 0. 8. 10. 200. 167. 388. 5. 11. 0. 0. 0. 0. 132. 0.	0.00.00.00.00.00.00.00.00.00.00.00.00.0	0. 33. 0. 7. 32. 12. 5. 0. 6. 0. 141. 0. 27. 0.	13. 08. 46. 43. 155. 05. 06. 06. 07. 11. 06. 711. 49. 49. 49. 44. 44. 44. 44. 44	34. 24. 212. 282. 200. 118. 75. 140. 140. 140. 140. 121. 194. 30. 41. 111.	11. 157. 162. 207. 2	
		t . 40 H	n BAT										
*###	%0,26 34%,	10x4P1H	TANATI MAR _a	APR.	YAF	ብዛነክ	JULY	AUG.	seP.	DUT.	NOV.	DEC.	
1752 1752 1753 1753 1753 1755 1757 1758 1759 1761 1762 1763 1763 1765 1766 1768 1768 1768 1768 1768 1768	24. 154. 164. 110. 110. 110. 101. 1	2.70. 150. 150. 157. 127. 277. 277. 277. 277. 277. 277. 27	216. 119. 310. 137. 175. 238. 318. 158. 158. 158. 157. 271.	6Y. 48. 27. 999. 203. 171. 37. 17. 37. 199. 151. 133. 207. 147. 57. 107. 107. 77. 21Y.	210. 36. 153. 210. 98. 42. 144. 57. 250. 15. 96. 100. 16. 100. 424. 24. 147.	147. 152. 14. 05. 718. 45. 10. 31. 10. 07. 3. 77. 71. 16. 35.	39. 4. 10. 34. 410. 152. 502. 68. 75. 30. 12. 0. 0. 0.	18. 9. 63. 4. 101. 6. 28. 4. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10	76. 78. 29. 17. 10. 0. 14. 27. 0. 145. 0. 60.	55. 0. 14. 10. 30. 20. 44. 10. 24. 10. 24. 10. 24. 10. 27. 10. 27. 10. 27. 10. 27. 10. 27. 10. 27. 10. 27. 27. 27. 27. 27. 27. 27. 27	36. 367. 35. 244. 196. 79. 171. 107. 11. 185. 71. 148. 65. 42. 108.	200. 109. 136. 207. 161. 273. 208. 153. 183. 351. 167. 393. 130. 84. 238. MEAN	
YEAR	JA",	HERIOKT FF4.	MAR.	APR.	FAY	June	JULY	λυG.	SE₽.	יוטר.	40y.	nec.	
19512345951195597119559711955971195597119569711996678997	12429 1299 944 1427	110 745 725 725 725 725 725 735 735 735 735 735 735 735 735 735 73	144. 144. 144. 144. 144. 145. 150. 164. 174. 174. 175. 175. 175. 175. 175.	151. 75. 110. 170. 160. 795. 44. 794. 179. 130. 454. 62. 162. 703. 800. 189. 329.	329. 08. 136. 201. 317. 301. 179. 305. 1772. 08. 08. 09. 236.	29 8 08 08 08 08 08 08 08 08 08 08 08 08 0	74. 45. 77. 953. 312. 799. 119. 20. 0. 437. 0.	154. 244. 244. 227. 35. 193. 107. 107. 107. 107.	119. 247. 76. 151. 57. 20. 21. 01. 243. 97. 58. 58.	58. 14. 527. 36. 618. 152. 124. 77. 8 0. 152. 152. 152. 152. 152. 152.	212.5741 5741 130497 130497 131897 11964 11964 11964	200. 211. 190. 150. 160. 165. 165. 165. 462. 64. 158. 193. 110. 238. 110. 313.	
						.*	٠			· .		MEAN	
		***					*			$(x,y)^{2}, x_{1} = x_{2}$			

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•••	NO.28	KAPPAK.		•••	•	•			÷					
YEAR	, JAN.	FeH.	HAR.	tbH.	MAY	JUNE	JULY	AUG.	SÉP,	ogt.	NOV.	nec.	TOTAL	
195123 19553 19555 19555 19555 19656 1966 1966 1966	-1981	288 288 288 288 288 288 288 288 288 288	347. 284. 195. 449. 154. 219. 128. 444. 437. 447. 447. 792. 326. 280. 353.	753. 953.	478. 0. 370. 456. 126. 23. 221. 397. 261. 04. 13. 390. 77.	397. 406. 1940. 1951. 1759. 1075. 1075. 1077. 1077. 1157.	221. 63. 19. 1049. 648. 132. 71. 54. 38. 0.	56. 421. 28.0. 28.0. 20.	147. 110. 11. 94. 195. 195. 11. 31. 44. 17. 39.	13A. 422. 155. 155. 1 3. 2 91. 2 91. 154. 154. 154. 155. 16. 16. 16. 16. 16. 16. 16. 16	77. 17. 278. 170. 365. 398. 141. 31. 143. 131. 143. 150. 160. 160. 160.	347. 210. 302. 302. 1568. 2135. 2135. 2403. 2403. 213. 2403. 213. 2403. 213. 2403.	2566. 1735. 1981. 1827. 2807. 2434. 2045. 2045. 2521. 1577. 2660. 1796. 2755. 1610. 2585.	•
1967 1968 1969	410. 263. 405.	748. 179. 279.	234. 214. 203.	194. 264. 573.	11. 323. 42.	153.	566. 51.	186. 37.	193. 193.	191. 50.	150. 338. 165.	190. 349. 144.	335A. 1991.	
1970	762.	147	254.	478	397.	221.	56.	r.	134.	17.	347.	400	2984,	
***	Nº.29	SUPT1 :	LA _H ANGAN	•••								HEAM	2340.	
YEAR	fate.	FEH.	MAR,	4444	MAY	3001.	JUL Y	. Pu4	¤€P.	nct.	40V.	nec.	TOTAL	
11951 9951 9955 9955 9955 9955 9955 995	-100 -100 -100 -100 -100 -100 -100 -100	1974 1974 1974 1974 1974 1974 1974 1974	344. 1026. 304. 1540. 1990. 2977. 311. 253. 253. 253. 254. 253. 317. 253. 317. 354. 35	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	20. 20. 20. 19. 20. 20. 20. 20. 20. 20. 20. 20. 20. 20	205. 107. 101. 25. 101. 25. 101. 26. 114. 108. 114. 108. 108. 108. 109	61. 10. 64. 517. 215. 544. 124. 22. 0. 19. 0. 19. 0. 30. 30.	30. 34. 16. 16. 16. 17. 12. 11. 10. 10. 10. 10. 10. 10. 10. 10. 10	9. 114. 9. 5. 26. 0. 37. 16. 0. 0. 151. 86. 10?	102. 24. 44. 44. 191. 103. 104. 105. 106. 107	43. 14. 65. 624. 65. 64. 102. 134. 78. 78. 77. 125. 97. 13. 64. 15.	1523. 253. 2779. 8986. 75157. 704 8. 1112. 4077. 105. 105. 107. 105. 105. 105. 105. 105. 105. 105. 105	188	
	16		•									•	·	
AF#K	19430 JAM	engell this Free	MAR.	ipH.	~AY	; JYE	JULY	AU i.	ŞEP.	out.	NOV.	nec.	TOTAL	
1955345 1955345 19555 19555 1955 1955 1956 1966 1966 1	123557244234475505255355545544455505545555555555555555	577-44 577-44 534-56 577-54	505149 23149 35149 35149 35149 35149 35140 36140	217 187 132 242 339 493 337 493 277 176 274 445 145 160 429 178 272 322	3.22 23.505.342.256.346.104.3566.104.356.105.105.356.105.105.105.105.105.105.105.105.105.105	447. 10 g. 25. 237. 316. 295. 270. 211. 259. 215. 107. 10. 10. 10.	42, 74, 23, 4, 81, 519, 359, 731, 164, 317, 8A, 13, 221, 0, 0, 0, 559,	700.21.170.21.170.170.170.170.170.170.170.170.170.17	15. 16. 113. 274. 80. 122. 38. 0. 179. 0. 179. 181. 128.	12F. 27H. 12. 104. 229. 25. 156. 134. 145. 25. 25. 25. 26. 27. 27. 28. 29. 29. 29. 29. 29. 29. 29. 29. 29. 29	1 U5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	459	2733 - 2472 - 2379 - 3503 - 4000 - 3233 - 3041 - 3257 - 3257 - 1591 - 3201 - 1655 - 2508 - 1743 - 3644 - 3087 - 3087 - 3087 -	
			. %	4.				;				MEAN	2870.	

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	HO.31	MALBALD				JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.	TOTAL
YEAR 1950	JAY.	FE4.	MAR. 369.	APR. 370.	746.	288.	160.	61+	n.	98.	71.	408.	2620.
1952 1952 1953 1955 1955 1956 1956 1960 1963 1964 1966	11000 11000	324. 231. 217. 217. 217. 227. 227. 246. 251. 276. 251. 277. 227. 455. 261. 278. 451. 278. 451. 278. 451.	288. 3571. 453. 453. 5031. 447. 423. 447. 423. 4406. 466. 676.	179 1267 5081 1074 1074 1074 1074 1074 100 100 100 100 100 100 100 100 100 10	23. 48. 48. 439. 425. 546. 1464. 1033. 474. 52.	358 10. 1177. 4177. 419. 127. 127. 127. 127. 127. 127. 127. 127	61. 19. 2. 67. 241. 519. 104. 105. 75. 75. 0.	198, 27, 96, 928, 928, 160, 160, 17, 11,	53. 198. 59. 77. 44. 60. 17. 3. 2. 3. 2.	24. 236. 1057. 255. 248. 209. 209. 209. 209.	2844 706162 168162 168162 1707 167352 167352 167352	5586 5786 5786 5786 5787 5787 5787 5787 5787 5787	2509. 2629. 2631. 3785. 4206. 3023. 4100. 3485. 21769. 3134. 2160. 2069. 35760.
1967 1968 1969 1970	11 ⁸ 213. 514. 459.	4 14 * 115 * 24 * 4 * 4 * 4 * 4 * 4 * 4 * 4 * 4 *	274. 417. 174. 379.	946. 197. 203. 346.	12. 529. 0. 258.	0* 100* 93* 10n*	361. n. 61.	213.	2. 2. 47. 48.	17. 139. 37. 71.	375, 101, 408,	372. 519. 351. MEAN	28 ₀ 3. 2001. 2981. 2977.
••• - YEAH	ыл. 12 Лата	acsikt Pak	u¥a.	4PH.	44 ¥	INVE	JUL Y	ΔUFI.	SEP,	naT.	NOV.	DEC.	TOTAL
1955 1955 1955 1955 1955 1955 1955 1955	175 475 477 50 477 50 477 50 477 471 477 50 477 477 477 477 477 477 477 477 477 47	AGG, 377, 476, 156, 156, 156, 156, 156, 156, 156, 15	410. 313. 454. 446. 520. 757. 719. 717. 715. 477. 735. 472. 510.	541. 208. 117. 402. 307. 258. 501. 359. 405. 294. 305. 294. 306. 235. 236. 336. 237. 300.	200. 74. 144. 359. 248. 208. 359. 391. 359. 391. 41. 42. 447. 120. 95. 10.	2/5. 762. 25. 26. 171. 375. 110. 104. 74. 25. 417. 20. 118. 17. 20. 27. 22.	87. 04. 169. 63. 780. 210. 224. 204. 66. 0. 179.	10. 197. 57. 212. 110. 261. 27. 11. 26. 11. 28. 37. 0. 37.	06. 13. 95. 79. 15. 103. 44. 0. 0. 27. 36. 7.	40. 22. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7	31. 73. 942. 99. 696. 300. 304. 707. 799. 153. 206. 70. 688. 511. 779. 121.	405 405 405 405 405 405 405 405	2661. 2794. 2656. 4287. 3187. 419. 3787. 4858. 2067. 2441. 5244. 1583. 1924. 2048. 2048. 2048. 2048. 2048. 2057.
1479	Aga.	4134	541.	260.	275.	67.	16.	7.	46.	31.	407.	MEAN	3317.
YEAR	JAN .	KANDAT Kung	MAR.	spa.	MAY	Juve	JUL Y	AUG.	qeP.	nut.	NOV.	nec.	TOTAL
19523 19553 19553 1955 1955 1955 1955 1956 1976 1976 1976	-10414094440944509008441445090441295847684129584129584129584129584129584129584129584129584129584129584	44-1, 239, 297, 330, 323, 182, 278, 147, 247, 247, 2144, 377,	118. 235, 275. 351. 237. 1452. 301. 335. 477. 3133. 362. 3198. 276.	149. 64. 600. 185. 184. 195. 114. 114. 114. 117. 1	424. 62. 126. 224. 116. 177. 150. 150. 153. 153. 153.	233, 1/1, 23, 0, 137, 96, 188, 34, 36, 34, 39, 17,	44. 8. 5. 27. 103. 106. 65. 105. 8. 39. 0.	19. 149. 147. 27. 27. 0. 18.	15. 29. 48. 126. 75. 32. 17. 0. 14.	76. 95. 140. 040. 37. 63. 36. 11. 84. 12. 469.	077. 14870148. 37148. 3717. 1558. 377. 199. 177. 969.	13733482111328384821113283848211113283883111328388	1939. 1403. 1752. 2261. 2400. 2593. 2083. 1593. 1216. 1914. 1216. 1914. 1401. 1563.
1967 1968 1969 1970	145, 445, 373, 446,	325, 325, 115,	136. 414. 349.	76. 114. 188. 424.	284. 0. 233.	143. 36. 44.	130.	36. O	. 15.	118.	258. 82. 194.	525. 367. 265. REAN	3043. 1699. 2214. 1792,
					•		:14 - ;						

Maria Contract	No.												
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•••	NO.84	WATES		•••				• 1					
YEAR	JAN.	FEA.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SÉP.	out.	Nov.	pec.	TOTAL
1950	174	- 342,	264	425	203	244.	31.	14.	<u>o</u> •	27.	45.	228.	1997,
1951	348,	281. 388.	386 487	67. 102.	75, 160,	249.	14,	31.	5.	40. 246.	87. 245.	278. 156.	2134,
1953	326 378	249 450	409 299	741 304	167 276	141.	50. 10.	0 8 9	J9.	0 02	177, 416,	188. 298.	1630. 2782.
1955	370 225	10.5.	259.	394.	144.	100	228.	146.	152.	149.	350.	310.	2639.
1956 1957	112.	323.	219. 687.	103. 240.	226. 200.	107	136. 227.	106+ 49.	n.	56. 31.	226. 90.	334. 138.	2097. 2034.
1958	207	387.	445 465	271 295	101	92. 97.	109.	ōņ.	22.	46.	175.	281 338	2361. 2564.
1960	345. 271.	436.	200.	210	337,	41	39.	0. 54.	63, n,	43,	123. 251.	134.	1918.
1961 .	164. 27h.	360. 134.	481.	185. 448.	74. 142.	5, 21.	0. 26.	n. 18.	η. 13.	JA. 63.	96. 155.	340. 296.	1743. 1943.
1963	330	314	361	99	71	งร์	0	٥.	n_	3 D	85	184	1499
1964	9 35 P	155. 253.	391 210	125. 235.	392. 132.	120.	0 15	2P.	4.3	252 0	112.	178. 212.	1885. 1349.
1966	217.	534.	448,	345.	121.	27,	0	η,	16.	220.	32,	256,	2014.
1967	592. 414.	237	32. 579.	.u7. 235.	179	204.	140	É	53.	1 7 2	171:	295 292	1578. 2724.
1969	124.	117.	476.	369.	n.	26.	Α,	₽•	2ª,	on.	125	190.	1515.
1970	342.	264.	425.	203.	244,	31.	14.	0.	27,	45,	228.	311.	2134,
***	#0.35	AFETRI		•••								HEAM	2031.
YEAR	-HAFF	Fire.	MAR.	4PH.	*: 4 Y	J44F	Jul- A	≜uS.	466.	agt.	NOV.	n∈c.	TOTAL
1950 1951	-10. 203.	142. 434.	170. 138.	117.	235. 20.	93.	19. 120	9.	n 3	ti . 14	18.	190. 271.	1447. 1505.
1952	441.	139.	472	144	104	141.	1.	35.	24.	м 3.	27. 261.	246.	2190.
1953	U5.	23a. 455.	3 ₀ 4, 219,	266.	169. 100.	1.7. 39.	ę.	ր 138	34	55 ՝ Ն՝	41. 285.	414. 284.	1 ₈ 33. 2132.
1955	515.	147,	36g.	22n	116.	153.	215.	۷5.	47	v4.	382.	216.	2291.
1950 1957	21 Å. 324 .	247. 252.	106. 474.	147. 190.	248. 149.	4,	187 126	129	υ. 35.	5.	110. 85.	261. 226.	1826. 1964.
1958	178	A97.	170.	365.	115.	35.	19.	9.	ο.	32,	120.	361,	1727.
1959 1960	424.	214. 551.	385. 444.	242. 172.	218. 273.	148.	65. 0.	D.	1n.	12.	73. 16°.	427. 129.	221A. 213n.
1961	197.	143.	309. 274.	272 273	106.	7.	n.		٠.	·	110	105	1414.
1962	444.	187. 375.	378.	141.	56. 8.	6. n.	2. 0.	n.	n. n.	5. n.	131. 15.	218. 206.	1522. 1567.
1964	922.	144.	368. 224.	195,	136. 76.	5, 15,	9. 0.	n,	4n,	2.5. n.	172.	209.	1696. 994.
1446	225,	456.	39A.	126.	13.	0	٥.	'n	n.	13.	3. 106.	290	1687.
1967 1968	; ₹3. 104.	970. 337.	87. 278.	187. 272.	203.	206.	0. 144.	n. 2.	0. 4.	о ^С 2 ^Н	40. 100.	285. 78.	1876
1469	5 3 P	344	210.	923.	o.	ın.	13.	₽.	7.	25	105.	165.	1763,
1970	172	199,	374.	⊅ჰ∏.	ва.	19,	0•	ů.	0+	1 ^μ +	1 ⁹ 0•	355	184n
	,											WEAN	1775,
	140 . 30	P.G.MF		•••									
YEAR	JAN	FyH,	MAH.	APR.	-AY	JUNE	JULY	AUG.	SEP.	nut.	NOV.	DEC.	TOTAL
1950 1951	=1º. 271.	350. 360.	178. 23 ₉ .	392. 64.	75A. 67.	178. 444.	9. 52.	10.	73.	3ส. 55.	141.	26A. 36g.	1832. 20 ₈ 3.
1952	187:	237. 175.	496. 293.	145	12 ⁸ . 165	11.	9.	8 n.	3.	71.	211.	315	19 12
1954	22.	271.	117.	26H.	215.	1. 3n.	77,	91.	49.	0. 1.00	110. 501.	235. 315.	1322. 2362.
1955 1956	781. 217.	139. 264.	535. 39.	251. 37.	215. 199.	119.	200. 84.	46. 108.	54. 54.	100.	158 143	240. 355.	2310. 1656.
1957	435.	177.	517,	152.	140.	47.	148.	90.	n.	6.	37,	197.	1833.
1958 1959	401.	234. 245.	229. 401.	218. 316.	42. 176.	142.	142. 32.	135. n.	ე. პე.	131.	5n. 43.	485. 513.	1957. 2276.
1960 1951	*2#. 784.	37A. 277.	401. 238.	267. 227.	326. 154.	55. 19.	37. 0.	37. 0.	8.	9	152.	294.	2294.
1962	363.	150.	357.	258.	42.	4.	47.	23.	າ. ຄ.	4.5	79. 255.	249. 240.	1536. 1754.
1963	295. 119.	152	416. 332.	193.	n2. 218.	0, 45,	o. 0•	15	29	23	16. 214	368 258	1726. 1800.
1965	719.	i73.	198.	104.	68,	٥1.	25.	_0+	G.	22.	35.	315.	1255.
1966	207.	309. 422.	479.	283. 237.	69. 55.	17.	0. 0.	η. Ο.	15.	0. 44.	60. 55.	400. 347.	1699. 1649.
1968	20 ⁸	354.	343.	163.	92.	123.	246.	17.	35.	56.	290.	224.	2191.
1970	350	218.	392.	258	198	.9.	10	. D.	86.	31. 141.	173. 268.	176. 398.	1685. 2240.
					4.	ر میں اگر ماہ دران	• •					MEAN	1890.
د. ارتسائی	igas, en esta	engelse in Fragmen	e Kalena de la de			أسخمت والعطوات	, 4.,	محمد کی لا معا	· · · · · · · · · · · · · · · · · · ·	energia de la composición della composición dell			
MANY.													
32 / A				ar i i i i i Birlingar , k			. 15						•
			4.0		* * * * * * * * * * * * * * * * * * *			*.~ ·					

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•••	หกั.37	ITALD		•••									
YEAR	JAN.	FEB.	MAR.	APR.	HAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.	TOTAL
					_		_				_	90.	1487.
1950	-10.	420.	355.	340.	108+	154.	В,	n.	D. 5,	15. 70.	10.	157	928
1951	706	226	96. 435.	я 9 я	72.	106. C+	15.	":	ñ.	58.	211.	330	1631
1953	168. 220.	257. 29a.	144.	266	143	۵,	ž,	n.	ő.	n	56.	382.	1516
1954	309	222	150	240	113.	4n	15.	88.	5.	36.	265,	301.	1816.
1955	204	187	279	188.	241.	129.	¥9.	4.	6,	119.	131.	135.	1713.
1956	710.	257.	140.	71.	130.	175.	50.	37.	6.	102.	138.	303.	1645
1957	322,	217.	25g,	109.	47.	₫•	72.	44,	9+	٥.	14. 00.	11 ⁸ . 276.	1197. 1652.
1958	90.	254.	428,	295. 274.	120.	46.	53. 2.	39.	0. n.	>0.	96.	263.	1520
1959 1960	320. 347.	361.	260. 247.	217	1 ⁷⁸ . 121.	5,	21.	0. 6.	1.	20	482.	179.	1559
1961	158	71 ⁹ .	120	214	196	7	ž,	ñ.	ñ.	ō.	5	227,	1031.
1962	377.	3p3	184	163.	12.	14.	n.	4,	0 •	17.	221.	230.	1525.
1963	145.	278.	17A.	132	ī9.	4.	<u>0</u> .	0.	, ņ.	0.	20.	125 351	901.
1964	150.	350	375	99	>6.	42.	20.	n.	36.	an.	138. 50.	194	1640. 721.
1965	, O.	124.	85.	61 98	3.	0 • 4 •	0.	ο. ο.	n.	0. 68.	15n.	410	1510.
1966	265. 335.	261. 188.	272. 193.	171	42. Q+	. 0 +	n. 0.	n.	Ü.	0.	20.	355.	1124.
1968	134	217.	596	250.	130.	75.	135	17	ň.	ñ.	166.	268.	1986.
1969	161	332.	218.	296	24.	٥7.	0.	0.	O.	12.	13.	167,	1300.
1970	426.	355,	349.	108 e	154.	Α.	0+	r.•	16.	íl e	90.	209.	1706.
												MEAN	1447.
• • •	- 60 - 58	SAHAHAN		•••									
YEAR	JAN	FeH.	.MAR.	APH.	MAY	1046	JULY	au'i.	ceP,	ngt.	NOV.	pec.	TOTAL
פלילו	164.	263.	406.	381.	427,	316.	41.	c •	0.	42.	5.	220.	2445.
1971		331.	254	219.	15.	>A,	32.	4,	26.	. e.	5.	111.	1822,
1952	279,	345.	424,	43,	1>0∙	n.	0.	Ď.	?.	99.	30%. 77.	423. 328.	207n. 2084.
1953	276,	391.	297.	.461.	321.	18. 66.	15. 47,	n. 45.	n. n.	۰ 37.	383.	166.	2363.
1954	474.	99A.	392. 500.	222. 102.	323. 249.	100.	188	20.	5,	37.	119,	299	2616.
1955 1956	701,	312. 329.	195.	103	85.	384	77.	۵۶.	ń.	107	131.	364.	2121.
1957	567.	344	517.	203.	41.	9.	111.	3n.	0.	0.	75.	339.	2035.
1958	142.	585.	570.	334.	301.	11.	8 8.	31.	7.	t5.	143.	636.	3133.
1959	40A.	A79.	341.	201.	<u>1</u> 71.	105.	69.	ŗ.	· 0 •	3.	87.	456,	2621. 2954.
1900	644.	6¢4.	452.	. 66.	311.	.3. ≥n.	26. 0.	e. n.	10.	4. 0.	22A.	302. 159.	1650.
1961	129. 127.	241. 578.	314. 361.	371. 405.	201. 192.	8.	٨.	25	0.	25,	217.	597	3041.
1943	544	512.	448.	207	14	23.	0.	ā.	n.	ο.	26.	212.	2066.
1964	714.	289.	497	476.	103.	73.	0.	n.	35.	510.	391.	179.	2564,
1945	344.	219.	797,	121.	٥.	, n. •	n.	0.	Ω•	0.	95.	304.	1386.
1 400	761.	345.	534.	333.	42.	61.	o.	7.	n.	59.	62. 49.	487.	2486.
1967	527.	606•	256.	270.	43.	n •		7.	0.	0.	28A.	354. 256.	2105. 3001.
1968	365. 770.	217. 459.	729. 425.	306. 476.	4ŋ5. 35.	222. 5.	176.	<i>a</i> .	0 · 7 •	0 • 0 •	44.	236.	2452.
1969 1970	283.	460.	381.	427	316.	41.	0.	9.	42.	5.	220.	307.	2488.
1,,,	,,,,,	70.0			02	•••	•		•				
	NO.69	NGANDJU	r.									MEAN	2354.
YEAR	JAN	Fert.	MAR.	APH.	MAY	JUNE	JULY	Au€.	SEP.	out.	NOV.	DEC.	TOTAL
1950	-10.	254.	221.	542,	228.	108.		n.	. 0.	0.	7.	173.	1484.
1951	125	337	111.	71.	12.	95	8	4.	o.	4.	36,	230.	1233
952	266	362	438	71	101	5	0.	٧.	3.	105.	198.	371.	1834.
1953	273.	374.	187.	355.	222.	6.	26.	.0+	<u>٠</u>	٥.	98,	744.	1001
1954	272.	293.	270.	149.	133.	113.	56.	69.	9.	o2.	306. 129.	298. 168.	2048. 1889.
1955	7,7,	223.	251.	233,	727,	45.	185. 50.	23. 34.	18.	140, 98.	122.	238.	1414.
1956 1957	369	223. 203,	185. 225	17. 57	114. 53.	102.	110,	55	ō.	Ü.	42	249	1363
1956	159	264	402	57 365	217	17.	48	39	14	45.	61.	518.	2019.
1959	415	669	253.	237.	430.	23.	19.	0.	0.	ი.	141,	323.	2510.
1960	731.	724.	387.	275.	15R.	34	21.	0.	3,	15,	236.	116.	1667.
1961	161.	373.	145.	297	121.	0.0	5.		n•	0. 5.	47. 240.	347. 166.	1496. 1501.
1962	357,	535	268.	175.	14.	34,	0.	10.	0.	0.	22.	273	1434.
1963	140.	3;3.	324. 426.	739. 118.	133. 147.	107	. 0.	. 0. 0.	32.	102	142.	239	1625,
1964 1965	109.	191. 42.	87.	135.	21,	0.4	ŭ.	o.	0.	0.	54.	216.	664.
1966	175	281	177	90	24.	71.	o.	0.	0 •	69.	97.	295.	1346.
1967	201	319,	232	294	12.	0.0	0.	. ₿+	. 0+	0.	. 56.	.589.	1503.
1968	100.	125.	445,	185.	193,	5ž.	155.	22.	4.	92.	192.	130. 250.	1063,
1969	275,	279.	181.	133.	15.	8+	0.	0.		7.	178,	176.	1670.
1970	206,	721,	542.	228.	108	9.	0.			• •		- N. C.	
							,					MEAN	1600,

		_											
	NO.40	KERTOS	0.10	***									
YGAR	. HAL	FEB.	HAR,	APR.	MAY	JUMF	JUL Y	AUG.	SEP.	oct.	NOV.	DEC.	TOTAL
1950	223.	371.	413.	206.	174.	ρĄ,	10					-	4
1951	290.	307	137.	51.	4,	59	52. 52.	27. 11.	3.	30. 10.	29. 7.	110. 727.	1673,
1952	237,	334,	484,	137.	٧1.	3,	٥.	61.	75	56.	171	215	1659. 1865.
1953	411.	293.	195.	195.	211.	0	65,	n.	0.	C.	7n.	347.	1787
955	311. 345.	20H. 367.	77. 405.	177. 357.	141.	57. 111.	106. 121.	114.	4,	155. 56,	207.	413.	1970.
1956	252.	276.	235,	59,	119.	203	134	50	o.	98.	208. 223.	103. 293.	2821. 1951.
1957 1956	235.	242.	384.	22,	80.	.0•	91.	65,	4.	1.	66.	426	1621.
1959	117. 498.	327. 469.	408. 202.	761. 179.	250. 149.	37. 14.	35. 63.	47.	4n.	49.	78.	321.	1960,
1960	125	306.	505.	366	247	31.	o.	2n.	0.	35. 26.	84. 81.	39 ₀ . 52.	2023. 1959.
1961	277	338	129.	211.	206.	17.	2.	n.	ñ.	o.	124.	79	1378.
1962 1963	287. 87.	211. 334.	10 ⁴ •	421. 751.	23. 35.	222. 5.	33.	23.	0.	17.	190.	316.	1847.
1964	161.	178.	582	128.	575	83.	n. 15,	ο. ο.	0. 7.	159,	21. 41.	250.	1482.
1965	752.	248.	200.	61.	25.	23;	1,	ñ.	ń.	0.	86.	170. 287.	1756. 1203.
1966 1967	174. 274.	367. 274.	320.	167,	58.	ın.	0.	0.	п.	154.	111.	250.	1611.
1968	181	321.	134. 371.	100. 110.	2. 112.	149.	142,	0. 22.	4. 66,	5. 39.	55.	315.	1165,
1969	294.	292.	378.	109	37,		13.	n.	0.	14.	51, 54,	186, 189.	1738, 1410,
1970	171.	41.5	236.	174.	58,	32.	27,	0.	30.	29	110.	239,	1689,
												MEAN	1717,
	N7.41	PARE		•••								TEAT	4/1/4
YEAR	JAN.	FFH.	MAR,	APH.	MAY	JUNE	JULY	AUG,	SEP.	nat.	NOV,	DEC.	TOTAL
1950	-10.	27 <u>8</u> .	201.	364.	174.	sa.	17.	13.	o.	17,	38.	308.	1430.
1951 1952	246 27€	433. 283.	186.	36	22.	221.	18	32.	59 57	24	47	282	1610.
1953	230.	264.	719. 3 ₀ 8.	73. 367.	120. 263.	35; 3,	0 43	32. a.	57. E.	151.	252	490,	2047,
954	4 û ð ,	335.	75.	275.	215.	46	27.	110.	23.	122.	99. 371.	26 ₀ . 232.	1866. 2317.
1955 1956	200. 188.	167. 316.	524.	.04	127.	266.	353,	5.	61.	72.	302.	215	2594.
1957	310.	270.	11 ⁸ . 426.	114. 221.	161. 73.	134,	60. 65,	70r. 74,	7. 34.	1u2. 32.	124	233.	1752.
1958	157.	294.	258.	243	157,	158.	137.		4 A .	95	115. 125.	150. 441.	1777. 2151.
1959 1960	402.	262. 553.	307 452	น 5	332.	92.	75,	9	9_	15.	98.	4.15	2136.
1961	ءَ وُرَ	14.1.	173	10.	431. 130.	21. 45.	36. 0.	>1.	75.	32.	236,	189	2526
1942	755	247	170.	357	13.	40	15.	30.	9.	99	150. 128.	400. 171.	1517. 2034.
1963 1964	29A 169	45g. 121.	422. 47 ₁ .	175. 149.	4,	Zn.	g.	€ ••	o.	47.	6.	170.	1578.
1945	265	27A	475.	5н.	111.	۵1. ۵.	7. De	15.	50. 50.	249 33.	133,	113.	1637,
1966	166,	ችንላ.	292.	100.	102.	75.	a.	n •	n.	58.	33.	220. 360.	1241. 1808.
1967 1968	164. 202•	420. 507.	114. 317.	155	8,	10.0	Ģ.	ņ.	7.	10.	94.	273.	1387.
1969	230.	267	32A.	201. 191.	134. 49.	ţ۵η. 1•	186. 37.	1 ^A +	177.	12. 58.	199.	207.	2513.
1970	278.	201.	364.	174.	30.	17.	13.	0.	17.	36.	41. 30 ⁸ ,	165. 711.	1403. 1651.
												MEAN	1867,
	NO.42	SIMAN		***									
YEAR	, MAL	F€H.	MARE	ApH.	MAY	JUNE	JULY	AUG.	Sep.	nct.	NOV.	DEC.	TOTAL
1950 1951	207. 271.	242. 474.	339. 203.	249. 39.	95. 23.	88. 204.	68. 19.	19.	4A.	140.	335.	273.	2129.
1952	297.	310.	238,	78.	278	57.	Δ,	-7. 34.	01. 54.	27. 175.	56. 386.	297 5 ₁ 7	1741 2253.
1953 1954	253. 620.	264. 341.	336. 191.	415. 281	278. 244.	3,	45	n.	7.	1.	118.	274.	2014.
1955	300.	109.	251.	152	104.	54. 127.	19. 355.	19. R.	39. 2n.	71P. 95,	405. 355.	287.	2710.
1956	290.	390.	94.	150	144.	161.	63,	155.	68	111.	184.	339. 235.	2295. 2071.
1958	1 ⁹ 0.	274. 278.	593. 314.	181. 216.	125. 140.	103.	77. 137.	34. 26.	2.	33.	122.	212.	1855.
1959	610.	425.	494.	120	334.	104,	71.	27.	21. 64.	165.	78,	375. 478.	2104. 2817.
1960 1961	33A, 327,	425. 157.	268. 168.	755,	206.	\$2.	87,	6.	31.	36.	251.	126.	2063.
1962	483	454	153.	134.	137. 28.	27. UA.	0. 45,	7. 24.	0.	91. 73.	179.	422.	1662,
1968	408.	4BB.	248.	111	86,	25,	0	0,	7. 0.	8.	125. 20.	285. 308.	2259, 1904,
1964 1965	199. 309.	191.	551. 316.	89. 84.	193.	>6.	49.	39.	25.	466,	170.	179,	2210.
1966	242.	247	563.	93.	26. 209.	0. 36.	o. o.	0.	0. 7.	19. 167.	139.	232.	1806.
1967	446,	503.	137.	248,	š7.	0.	ă.	0.	16.	16.	123. 50.	803. 92.	2010. 1547.
1969	249	503. 250.	453. 359.	176. 125.	239. 47.	7.	212.	64.	. 1.	105.	166.	276.	2528.
1970	345	207	301.		209	24,	12. 18.	. D.	0. 24.	>0. 9.	100. 94.	163. 208.	1294. 1568.
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Committee				A CONTRACTOR				1000				-	
i se en al la filosopo La companya de la companya d			ŧ.,	A Company			ezonano par so						

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	NC.43	SEAAH		•••									
YEAR	JAN,	Féh.	MAR.	APH.	MAY	JUNE	JULY	AUG.	qgp,	nuT.	NOY.	DEC.	TOTAL
1950	-10. 153.	386. 476.	525. 305.	427. 11 ⁷ .	169.	187.	86. 94.	7.	0.	30. 22.	109. 216.	351. 429.	2287.
951	156	469	414.	122	11. 50.	100*	n.	20.	21.	115.	541	340,	2144. 2445.
953	350.	200.	423.	291.	351.	10,	21.	n.	17.		312.	280.	2595
954 955	696. 965.	295 352	398. 397.	349. 264.	163. 130.	51. 111.	16. 227.	74. 33.	73. 95.	12H. 132.	33A. 446.	526. 341.	3087. 3111.
956	426	450.	3p4.	717	124.	11.5.	66.	144	14.	100.	364	397.	2987.
957	232.	544.	548.	150.	293:	3.	153.	3n.	15.	42.	245.	545,	2946
958 959	162 494	313. 452.	446. 434.	120	274. 324.	118. 95.	167. 73.	38. 25.	12. 10.	165. 55.	14n. 227.	51A. 750.	344A.
960	571.	410.	286	455	262.	23.	20.	40	n.	15.	364.	294.	2968
961	769.	250.	252.	227.	155,		.2.	n.	27.	>₫.	281.	349.	2401.
962 963	773. 713.	564. 371.	386. 446.	643. 81.	აR. 24.	151.	45. U.	51.	я. Л.	5Ħ. 135∉	227. 96.	489. 335.	3463. 2204.
964	214.	268	397	291.	249	94	δņ.	17.	45.	331.	216.	229.	2385.
965	161.	35.	429.	167.	źR.	10.	7.	0.	0.	10.	84.	232.	1764.
L966 L967	-75. 734.	405.	675. 252.	129. 221.	155. 158.	37, 0.	21. 0.	6. 5.	0. 0.	вĦ. 6.	350. 17n.	385. 610.	2777. 2759.
966	192	4,7	19 A	(20)	200.	1911	183.	ðn.	19.	49	329	382.	2910
969	446.	564	353.	195.	42.	1 1 .	· 7.	0.	٠,	111.	252.	187,	1899,
979	300,	٠, ١	427,	169.	167.	nv *	7.	n.	პე.	1 d 9 a	351.	789,	2686.
												. MEYA	2700.
•••	56 , 44	Piredu		***									
YEAR	(A S a	F= -	MAR.	rbu.	n A Y	Junip	July	Δųθ.	SEP.	ngt.	NOV.	DEC.	TOTAL
1950	215.	244.	241.	199.	71.	104.	69,	34.	79.	124.	3gn.	373.	2110.
951	796.	5,2,	171.	44.	21.	82.	67.	22.	124.	32	54.	314.	1028,
y52	450.	17 . 25 7	254.	114.	11.	13.	n.	29.	54,	yń.	425,	355.	2433.
953 954	777.		210. 26K.	131. 270.	133. 145.	14. 24.	26. 51.	111.	2. 46.	17. 165.	111. 516.	466. 303.	153A. 2747.
955	220.	376,	342.	184.	131.	125.	273.	43.	6	170.	344.	240.	2466.
9.5	٠,٠,٠	40 45	160.	10%	131.	146.	45.	65,	В.,	170.	165,	250.	2040.
957	721. 700.	257	466. 294.	137. 174.	76. 56.	5. 47.	927. 131.	16. 39.	**	. 9	16n. 168.	314. 492.	2077. 1643.
959	493.	316.	245.	246	129.	41 •	44.	7.	2	45.	210.	272	2030.
900	>	.41	342.	238.	555.	BA.	4.	3.	2.	57.	292.	270.	2479.
961 962	452. 658.	271. 5,9,	24n. 232.	169. 402.	101. 53.	41. 54.	16. 56.	es.	21. 21.	20. 114.	159. 264.	315. 469.	1786. 3000.
963	713	4 7,	190	94.	a.	· ·	i ii e	e.	'n,	105	65.	214.	2007
954	1.5.	245.	420.	179.	209.	111.	Α.	57.	tőf.	417.	231.	201.	2490.
1465 1466	∾ 31. 207.	3.5 4 . 4 .1 .	275. 315.	127	72. 118.	∠n. 45.	3. 10.	27.	n.	14.	49.	348,	1653.
5A7	12	252	234.	1,0	6,	D.	0.	σ.	0.	143. 15.	320. 151.	740. 464.	1937. 1653.
948	77.	429.	354,	102.	177.	143.	223.	04.	39.	121+	303.	364.	2778.
970	594. 7⊌5.	1 * 1 * 4, 5 *	173. 429.	71. 127.	39. 104.	19. 31.	15. 37.	'n.	22. 48.	7h.	165.	240.	1336.
. * • •			~2.,	127.	104.	5,,	37.	2.	70.	177.	415.	726. WEAN	2331. 2113.
	NA.45	KA CHANG										2	
EAR.	JAN.	F⊩H,	444.	, pu	*AY	10116	JULY	A.1G.	SEP.	061.	NOV.	DEC.	TOTAL
950	191. 251.	145. 441.	253. 184.	220. 40.	55' 26'	129, 247.	10.	44.	D. 46.	19. 22.	15. 59.	113.	1193, 1632,
942	275	248	714	79	120	35	D.	34	41	130	407	297. 517 274.	2151
453	234.	261	307.	721.	263.	а.	3/.	D.	41.	1.	127.	274	1932.
954 955	495. 277.	341 240	18. 137,	126. 40.	193.	87. 174.	238	105. 23.	65. 3ŋ.	10°.	401. 346.	337. 302.	2186. 1989.
956	33r	232.	140	84.	1 d2	264	90.	49.	19.	101.	113,	424,	1947.
957	121.	361.	414,	65	3 M .	0.	151.	95.	3.3	10.	127.	259.	1894.
958 959	255	295. 265.	724.	345,	26.	130+	45.	84.	17.	76.	59	512.	2022.
960	410.	487	304. 272.	137.	332. 205.	91. 53.	65. .5.	10.	7. 11.	14. 5.	128. 111.	440. 36.	2176. 1550.
961	505.	140.	171.	136.	130.	25.	16.	0	0.	75.	189.	422.	1611.
892 845	428	45 n e	158. 243.	274. 36.	3n.	104	8	53.	26.	¢1.	244.	269 207	1611. 2105. 1125.
964	21 ⁸ . 200.	30^. 211.	402.	117.	1 ^R .	>9°	0. 2.	15.	0. 42.	34. 365.	25. 111.	120.	10/2.
965	241 107	193.	238,	57.	٥o.	n.	28.	58.	D.	448	34.	324. 277	1201
966 967	307	242 476	433. 195	45. 250.	20.	77.	g. Q.	. 0.	σ,	444. 2 <u>7</u> .	124.	277	1773.
968	210.	212.	445	155.	10.	81.	168	15.	18.	47.	130.	125. 271.	1384. 2073.
969	200,	545.	338.	61.	16.	0.	. 0.	D.	D.	7.	105.	169.	1447.
970	140.	264.	220.	59.	129.	Ď.	44.	0.	19.	15.	118.	248,	1250.
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	• NO.46	HENGLE	. aı	•••									•
YEAR	JAN.	res.	HAR.	APH+	HAY	JUNE	JULY	_A UG ₄	sep.	OUT.	NOV.	DEC.	TOTAL
1950	-10. 572.	174:	210.	442,	187	18.	,0,	5.	_n.	٥.	.0.	101.	1180.
1952	302.	č⊎g.	181. 478.	81. -114.	91	44,	63. 0.	47. 27.	39. 19.	12. 55,	40. 357.	993. 292.	2048. 2115.
1953 1954	425. 310.	276. 260.	125. 117.	236. 211.	253. 135.	49.	135. 30.	0. 51.	0. 0.	177.	62. 251.	346. 370.	1831. 1951.
1955 1956	351,	ec.	339,	140.	136.	22.	167.	19.	٠,	52.	130.	336.	2075.
1957	251. 201.	345, 223,	177. 319.	110. 64.	103.	119.	34. 10 ⁵ .	55. 38.	7A. 0•	32.	111. 76.	179, 330.	1544, 138 ₀ ,
1958 1959	225. 417.	399. 494.	411. 781.	180. 9J.	166. 241.	50. 40.	9n. 28.	26.	0.	61. 35.	3. 100.	295. 358.	1520. 1997.
1960	305.	319,	274.	195.	208,	2	11.	, C.	.n.	Α,	165.	. 90.	1560.
1865	195	372.	117.	8n. 449.	17.	7.	0. 67.	٥.	n. 0•	υ, 10 ⁴ •	37. 11 ⁹ .	67. 368.	969. 2157.
1963 1964	142.	3ე3. 244.	538. 450.	149,	76. 04.	154.	47.	n. 12.	n. 100.	31. 178.	13.	241. 138.	1493. 1810.
1955	704.	393.	175.	132.	10.	ñ.	0.	n.	η.	0.	5.	348.	1217.
1960 1967	975.	454. 309.	აცჩ. 110.	£9. 1ÿ⊅.	79. 50.	⊅A. ∂•	0+ ()•	. O.+ - O.+	n. n.	131.	262. 10.	318. 366.	1920. 1245.
1968	769. 771.	373. 471.	317. 334.	144.	158. 50.	126. 25.	244.	52.	29.	21.	161.	248.	1989. 1293.
1970	176.	210.	445.	165.	18,	0.	5.	ۥ n•	р. , П.	0 • 0 •	28. 101.	135. 181.	1321.
												MEAN	1689.
	• N^.47	AF1491		•••									
YEAR	, IAN	FOR.	MAP.	APH.	MAY	TOPE	July	¥nu•	¢cP.	nct.	HOV.	DEC.	TOTAL
1950 1951	-14. -19.	3m1. 341.	251. 222.	252. 89.	110,	69. 119.	7. 2.	67. 61.	0. 18.	4 ft .	25. 53.	69. 552.	1299,
1952 1953	(36. 402.	369. 372.	119.	41.	114.	13.	55.	4D.	5.	73.	354.	429.	1459
1554	324.	137.	104.	145.	7/7.	n. 35.	26.	п. 18.	3. 3.7	26.	47. 245.	253, 242,	1741. 148n.
1956	, 51.	255 254	366. 121.	120+ 40+	, Ac 168	177.	374. 10.	11.	25.	51. 54.	172. 106.	192. 179.	1979. 1463.
1957 1958	101. 206.	276. 232.	265. 271.	115. 204.	6A. 56.	c.	114.	41. 36.	n.	1.	100.	229,	1545.
1959	264	293.	193. 375.	¥3.	271.	33. 16.	42.	r.	17.	50. 31•	24. 70.	220, 563.	1464. 1766.
1961	40^. 270.	334. 275.	375. 79.	170. 201.	229. 194.	14.	17. 8.	12.	2. n.	31.	72. 52.	151. 239.	1816. 1339.
1952	451. 790.	175.	184. 430.	43A. 115.	o.	⊎ņ.	۰.	5.1	o.	17.	94.	724.	1725,
1944	69.	163.	328.	175.	56. 151.	10. 141.	0. 10.	л. 28.	0. 28.	5. 129.	1g. 119.	221. 176.	1517. 1437.
1945 1940	147. 250.	180. 364.	59. 225.	43. 91.	21. 35.	34. 17.	45.	o.	п. п.	°. 2∪6.	27. 60.	214. 347.	72D. 1640.
1967	76°.	435,	148.	17h.	12.	0.	n.	n.	5.	10.	33.	164.	1754.
1469	99	401. 323.	225. 474.	115.	75ŋ. 10.	1 % fi .	25 ₁ ,	44. (.,	12.	29. 0	226. 20.	124. 119.	2023. 1267.
1970	.401.	251	262.	110.	69.	7.	67.	₽.	48.	25	69.	380.	1689.
												MEAN	1604.
••	● NI1,48	KADIIH		•••									
YEAR	JA™.	Fem.	MAR.	, H4A	MAY	JUNE	JULY	AUG.	SEP.	ng#.	NOV.	DEC.	TOTAL
1950	710. 271.	520. 266.	259.	427. 52.	131. 28.	/5. 114.	0. 11.	п. 44.	0.	0.	117.	214.	1743,
1952	441.	263,	395.	n5.	132.	11.	24.	n.	15.	47. 65.	47. 424.	269. 394.	1422. 2158,
1954	299	162. 457.	241. 372.	4 թ ^B , 359 ,	1 ⁷⁹ . 240.	148.	194. 74.	ე. პი.	D.	η. 160.	235. 369.	403. 502.	2006. 3098.
1955 1956	497.	207.	526. 188.	222. 140.	63. 96.	šh. 274.	240. 30.	45. 143.	p. 50.	171.	284. 445.	247. 525.	2468. 2466.
1957	616. 394.	265. 405.	645. 633.	98	58.	24.	118.	37.	10.	0.	286.	372.	2549.
1959	463	631.	568.	270. 224.	158. 329.	05. 105.	198. 42.	Δ8. Υ•	n. 19.	51. 0•	73. 88.	515. 417.	2630. 2965.
1960	360. 319.	527. 238.	496. 296.	35n. 152.	. 114.	П. 11.	0. 0.	0.	o.	o. O.	19D. 65.	335, 279.	225A. 1468.
1962	492. 224.	365. 321.	359. 410.	417. 242.	67. 47.	19.	26. 0.	41.	Ü.	20.	165.	293,	2340.
1904	352.	216.	482.	122.	157.	1≅n.	103.	e.	0 • 4 •	0. 332.	8. 293.	415. 124.	1686. 2305.
1965	205. 530.	209. 450.	251. 404.	189.	47.	48. 55.	0. 0.	₽. 0.	0.	157.	35, 106.	328. 88.	1267. 1948.
1967	774	198 428	172. 565.	262 268	. 0.	0.	o o	٥	٥,	3.	36.	404,	1429.
1969	330",	4 313.	429.	54.	178.	. 0.	97,	B.	0. 0.	D.	295. 55.	161. 356,	2007. 1723.
. 1970	250.	2004.	437.	131	75,	Ω•	0.	0.	0.	117.	214.	163,	1716.
	Maria				•						•	MEAN	2155,
14.50 6		ئوسى ئاسىنىيى. د ئاد		والمأبط إيرأي					. ·	•	2.50		
				• . }					\$ 1.7				***
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K A S		- 11										100	
Marki		steed parties.		भर्गे देखाई है	madidi	Miko Wa	tar en in			2	41 H	`	

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	. ديو ايان	Wanner.		• • •								2.4	
	• h0,49	TAPEN				4 .416.	lul m	A. G	SEP.	OCT.	NOv.	nec.	TOTAL
YÉAR	JAN.	FEB.	MAP.	TOB.	HAY 	JuNE	JuLy	AuG.	_		-		1745,
1950 1951	-10. 285.	362. 406.	707. 161.	481. 116.	105.	46. 98:	6. 9.	15. 90.	0. 4.	n. 16.	, D.	213. 321. 321.	1519,
1952	360,	333,	346. 50.	46. 244.	41 173	й. О.	10. 63.	22.	4, 0,	107.	269. 169.	321. 248.	1867. 1655.
1953 1954	356. 283.	352. 304.	712.	734.	117.	140.	50,	43,	0.	74.	252.	326,	2081. 2153.
1955 1956	218	287. 352.	416. 143.	250. 104.	117	120 i 245.	23 ⁹ .	კი. 2⁴.	54.	110	24 ⁹ . 299 .	314.	1010,
1957	391.	242,	553.	95.	42.	124	85. 91.	47.	4,	0. 118.	203. 30.	432. 489.	2218. 2312.
1958 1959	372. 302.	5 ₁ 2. 3 ₀ 6.	269. 430.	223. 147.	104. 214.	76. 82.	10.	28. 0.	0 • 0 •	20.	143.	313.	1975.
1960	278.	205.	247.	224.	0. 56.	C.	0. 0.	0 • 0 •	0 • 0 •	0. C.	174. 80.	267. 1 ⁹ 1.	1507. 909.
1962	176. 479.	1 ⁹ 0. 255.	81. 343.	135. 331.	17,	67.	22•	10.	0+	35.	189	278.	1997
1963 1964	193. 319	199.	324. 377.	165. 32.	33. 1 ⁹ 2•	36. 74.	0. 55,	D•	٥.	267:	310.	20 ⁸ •	1526.
1965	422.	206.	254.	123.	14. 71.	0.	0.	n•	0 •	208	67:	429. 189.	1466. 1582.
1966	762. 450.	302. 300.	261. 137.	100	5	dž. N•	0+ 0+	0. 0.	0. 0.	υ.	140.	444.	1658.
1968	748	296. 445.	409. 234.	114.	252. 84.	150.	506.	135. n.	110.	124.	304. 99.	191.	2492, 1531.
1969 1970	342. 157.	507.	481,	10, 105.	46.	6	15.	n.	9.	0.	213.	381.	2136.
												MEAN	1791.
••	** N/1.50	DAULION	iuNG	***					·			n.c.	7-7-1
YEAR	JAH.	F⊊A,	MAR.	APR.	YAN	JUNE	JUL Y	AUG.	SEP.	nut.	404.	DEC.	TOTAL
1950 1951	100,	300. 353.	215. 274.	347. 87.	46. 0.	1U^,	o.	ა 5 .	0. 0.	3. n.	n. 56.	117.	1335. 1986.
1952	610. 532.	341.	610	40	79	19,	1.	43.	7,	107	371.	472. 278.	2462. 1689.
1953	397. 868.	344. 117.	131	306 178	149	48	35. 21.	δυ. υ.	15	105	550.	105,	1592.
1955	350.	369.	372. 138.	251. 8H.	99. 21.	38. 144.	150. 12.	3ŋ. 46.	45. 68.	72. 142.	241. 118.	263. 261.	2220. 1551.
1956 1957	251. 260.	262. 262.	416	116	29.	23.	29.	44,	0.	0.	81.	282,	1542.
1458 1959	324. 512.	175. 477.	286. 215.	110. 111.	50. 122.	8 ₀ . 12.	47. 28.	1.	17. 10.	84. 11.	29. 61.	413. 439.	1616. 1998.
1960	205.	341.	266,	197.	145.	3.	0.	θ.	51.	0.	223. 76.	110. 191.	1623. 1583.
1961 1962	201. 478.	492. 565.	797. 333.	12 ⁸ . 264 .	12.	19. 75.	0	₽• 25•	15.	23. 42.	108.	352.	2117.
1963	327.	5.7	611.	105.	52.	n.	0. 14.	o.	n. 24.	0. 181.	5. 323.	274. 193.	1958, 1861,
1964 1965	760. 403.	174. 349.	451. 214.	95. 145.	128. 71.	28. 0.	0.	υ. Ω.	n.	Ð.	67.	227.	1476.
1966	154.	344	424.	94.	59. A.	72.	0.	0.	0.	45	145. 75.	313. 406.	1652.
1967 1968	43 ⁸ . 210.	374. 697.	341.	248.	7 B	108:	134.	100.	2:	48	12.	140.	169n. 2176.
1969 1970		400. 215.	170. 347.	64. 46.	69. 106.	0 + 0 +	0. 35.	o. o.	ŋ. 3.	6. n.	35. 117.	121.	1269. 1337.
2			•	·								HEAN	1770.
• •	• -	TAMPUNI											-0-1
YEAR		FEH.	MAR.	APR.	MAY	コルルト	July -	AUG.	SEP,	00T.	NOV.	DEC,	TOTAL
1950 1951		658. 375.	559. 198	30.	195. 15.	2U2.	7. D.	54. 0.	n. 9.	13. 10.	24, 20.	95. 146.	2472. 1404.
1952	206	778,	445.	44.	63,	Ω.	0.	10.	0.	70.	355,	321. 346.	1858 1574
1953	289	195. 268.	16g.	361. 253.	1 ⁴ 1 .	1234	41.	15. 38.	n 18.	149	15. 281.	227	2331 .
1954 1955	467	267. 352.	274. 351.	272. 26.	2 ⁹ 0.	128. 226.	289. 12.	15. 3n.	33	66. 136.	252. 174.	228. 381.	2440. 1954.
1956 1957	. 219.	250	292. 355.	A2.	50. 3.	4,	99.	60.	0.	35	107.	428.	1662 1635
1958	314	381. 448.	275. 154.	107.	94. 171.	73. 38.	64. 30.	6. 3.	n. o.	4.	209. 81.	312. 317.	1842
1959 1960	772.	515.	452,	382.	204.	n .	36,	0.	o.	₫.	107.	200	2239,
1961 1962		392.	279, 190.	290.	60. 57.	28.	0. 78.	Ö.	0, 0,	Я. 46.	53. 110.	225. 376.	1706. 1970.
1963	349.	392.	315 240	99.	14,	. 0,	ο.	σ.	0.	0 240	259	249 118	1424. 1597.
1964	510.	108. 193.	145	109. 173,	44,	45) Q.	0 • D •	0.	0.	0.	39.	326	1420,
1966 1967	530.	466. 751.	441.	123. 338.	60.		.0+ .2+	0.	10.	100	91. 15.	577 2 ⁹⁶	2435
1768	291	616	487	122	269	153	216.	87	25	24	92	206	2670
1969	658	409 550	195 386.	195		9•	54.	0.	0. 18.	24	87 95	278,	1499 2424
				-								MEAN	1952

***	NO 92	Äkuóhokè	PTO			,	en e		•			* * * * * * * * * * * * * * * * * * * *	
YEAR	JÅN,	FEB.	MAR.	APR.	YAN	JUHE	JULY	AUG.	SEP.	ogt.	NOV.	nec.	TOTAL
1950	352,	330,	448.	4 bl . 29	107.	765.	٥.	20,	ο.	o.	0.	200.	2177.
951	207,	342,	153.		in.	o,	0.	o,	n.	17.	15.	146.	1057.
1952	295,	371	142.	137.	69.	12,	ō.	8,	σ,	50.	295	741.	1959.
953	4 DA .	371.	225.	273.	93.	24.	67	e,	n.	0.	98.	277.	1844.
954	441,	214,	220.	188,	105.	>3.	. 0.	47.	4.	04.	126.	242.	1699.
955	152.	267.	361,	222.	109.	64,	139.	19,	0.	30.	299,	335	2045
956 957	257	232.	113:	B4 •	33.	103.	31:	37.	2.	ა₄.	114.	329.	1324
977		363.		124.		12,	54.	26.	14.	Ĵρ.	īīo.	365,	1324.
958	425.	426.	250.	102.	101.	<u>2</u> 0.	104.	12.	5.	130.	30.	541.	2850.
959	644.	340.	444.	245.	241.	5 <u>1</u> .	67.	r.	13.	56.	30.	406.	2537,
900	249,	344,	434,	213,	238.	7.	39.	r .	42.	43,	117.	297.	2018.
1961	174.	297.	725.	719.	88,	<u>n</u> •	U •	n.	fi •	۴.	12.	254.	1277.
1962	297.	361.	204.	152.	۶ō.	15.	20.	η.	3.	1f.	47.	368,	1505.
1963	714.	367,	548.	109.	17.	ņ.	0.	n.	r.	€.	4.	367.	1646.
1964	468,	252.	381.	4n.	114.	87,	0.	۰.	21.	321.	204.	158.	2066.
1965	101,	314.	319.	175.	Ð.	n.	٥,	r,	n.	o.	٠,	182,	1468.
1966	11.	643.	987.	320.	95.	17.	4,	٠٦.	n.	21.	26,	113.	2421.
1967	225.	257.	187.	0.	0.	D .	o.		0.	n.	131.	199.	999.
1968	250	456.	25A.	152.	149.	15%.	132.	24.	6.	13.	133.	210.	1969.
1949	732.	289.	100.	61.	38.	Ð÷	0.	۰.	α.	0.	10.	183.	913
1970	130.	443.	461.	107.	235.	0.	20.	n.	n.	n.	200.	198.	2023.

3. Basin-Mean Monthly Rainfall

The compiled herein is the basin-mean monthly rainfall during 1951-1970 period calculated by the Tiessen Method for the catchment area of ten gauges and for sub-basins-II to VII. The gauges are Karangkates, Pohgadjih, Kaulon, Pakel, Tulungagung, Pakenjen, Djeli, Djombiru, Kertosono and Djabon. The sub-basins are as shown in Fig. 2-1.

	YEAR	JAN.	FEB.	HAR.	APH.	НДҮ.	JUNE	JULY	AUG.	SEP.	oct.	NOV.	DEC.	TOTAL
7.	1951	382.5	395.0	160.3	65,2	80.9	158.2	34.4	70.1	12,6	12,4	77.4	428.6	1857.7
	1952	440.7	402.9	426.8	- 44.D	84.9	13.5	u,	25.7	91.7	143.0	479 8	374.0	2547.D
	1953	247.9	205.8	292.1	243,6	231.0	. B.1	50.5	1.1	2.5	8.9	128.0	. 323.6	1709.5
	1954	400.9	348.1	296.5	351.1	229,8	142.5	56,7	96.5	49.8	148.5	447.4	424.4	2992.2
	1955	275.5	200.4	240.5	202.4	135.9	158.7	57/ 4	75,2	65.2	171.7	387.9	282.6	2602.4
1,	1956	304.8	221.3	136.1	91.9	78.0	116.n	130.1	108.3	22.7	100.1	194 8	341.8	1847.9
	1957	309.3	318.9	447.0	116.2	70.9	12.0	272.8	23.7	3.6	13.n	110.3	370.3	2018.9
	1958	242.7	272.9	311.7	241.5	125.0	94.4	96.4	51.5	45.7	00.5	120.0	479.7	2142.6
	1959	325.5	297.0	329.8	120.7	250.4	72.2	19.4	0.9	11.3	44.5	169.9	218.7	2138.8
5 .	1960	281.1	310.1	373.1	256.3	199.2	76.6	y	5.6	7.2	00.5	251.2	263.6	2040.3
	1961	421.0	289.n	275.2	231.n	135,2	0.3	ს ა	0.	U.3	0.4	149.4	406.0	1808.1
٠,	1962	494.7	277.0	289.5	268.6	61.2	40.3	71,5	44,8	1.5	81.7	239.1	513.2	2333.1
	1963	444.3	310.4	319.3	121.8	12.7	8.0		U.	2.5	^ 6	38.2	301.9	1574.5
	1964	174.7	164.8	340.6	214.7	111.8	102.6	U.Y	10.5	37.6	381.5	200.7	220.4	1975.0
	1965	280.5	273.6	206.1	134.K	57.0	1.9	۷.5	0.	2.2	5.4	151.2	340.0	1463.8
٠.	1966	321.6	347.0	371.4	172.1	70.7	48.P	u.s	3.2	3.2	104.4	211.4	397.1	1996.2
٠	1967	305.8	278.7	175.4	133.1	23.0	0.	u.	0.	0.4	35.2		404.1	
	1968	310.2	241.7	361.5	214.3	269.6	243.4	144.5	54,9	18.7	97.6		37B.2	1490.2
	1969	369.4	205 0	446 1	166.5	5 0.0	36.0	4.5	0.1					2532.0
' ;	1970	359.3	262.4	284 7	172.4	154.3	00.4			7,6	58,3	123.6	296.0	1872.1
	MEAN	335.2	290.5		178.7	121.1		40.7	<u> </u>	38.4	75,4	244.2	273.4	2010.6
			C 1 () 2	- 7 - 7	- 170 1	11494	67.5	64.2	28.0	21,1	60.4	205.6	367.2	2055.6

PUHWAUJIH HASIN HEAN HAINFALL AT

YEAR	, MAL	FEH.	MAR.	APP.	HAY	JUNE	JULY	AUG,	SEP.	ncy.	NOV.	BEC.	TUTAL
1951			100.4	68,6	76.5	136.3	32.6	65.9	15.1	12.2	74.4	423.3	1825.2
√1952	435.0	400.5	429,5	,66 J	86.2	. 12.7	U.1	26.9	86.9		478.1		2539.0
. 1953			250,0	244.6	235.7	7,5	50.3	.1.2	2.4	H.7	134.0		1724.6
1954			290.2	341.7	241.8	137.5	5 s y	101.7	50.0	153.6	461.4	434.2	3001.9
1955	. 279.1	300.4	244.6	204.1	139.5	138.7	337.7	80.5	64.9	169,0			2659.2
1956	307.0	222 3	137 0	94.1	84.5	116.2	138 3	112.6	22.5	103.6	195.9	357.2	1091.5
1957				113.8	70.3	12,5	232.2	23.7	4,2	12.3			2022.1
1956	244,3	277.9	310./	240.9	124,5	¥5.0	102.4	50.4	42.1	64.0		461.0	2159.7
1959	325.0	302.3	3.4.5	159.0	211.0	/3.9	10.0	1.0	10.2	48.0	105.0		2131.0
1960	281.3	304 D	331.4	. 226,9	199.5	76,8	15.4	0,2	7.0	οη, <u>η</u>			2000.4
1961	422.4	287.8	234.5	235.3	150.0	0.3	u . z	Ü.	0.2	0.4	1 1 3		1881.R
1962	489.2	274 0	247.5	278.2	62.2	41.6	22.5	42.0	1.4	85.7		219.3	2343.4
1963	431.7	314.1	331.4	123.9	12.0	7,5	Ů,	0.	2.1	6.7	42,4	301.7	1975.5
1964		165.4	346', 9	213.0	110.5	103 3	ijö	10.7		386.9	207.9	231.1	1988 B
1965	295.4	275.2	208.5	133.3	58.9	1.7	2.3	0.	2.3	5.1		337.6	
1966		349.6	325.6	161.6	69.1	45.7	. V. Z	3.4	3.1	104.5	208 9	408.3	1484.9
1967	307.1	279.4	172.9	135.3	23.9	a.	Ů.	a.	0.3	34.1	138 8	406.6	2021.2
1968	320.7	240.1	369.7	215.7	272.0	245.7	194.6	>4.0_	20.3	90.7	245.H	379.4	1498.5
1969	368.4	258 9	479.5	170.8	56.2	39.7	4.0	(1.4	8.0	57.1		301.4	2658.2 1878.4
1970	360,4	279.2	261.0	190.4	154.3	59.4	10,0	0.	38,2			280.5	2008.4
MEA	N 334.2	284.1	209.1	180.1	120.5	07.6	63.7	29.1	21.2	81.5	2n8 n	370.7	2005.4

			pASI	N MEAN	MAINEAL	L_AT	KAULON			er Her	· .	والمعادة والماء	ا این انداز این است.
YEAH	, MAL	FEA.	нан,	APR.	MAY	JUNE	JULY	AUG.	SEP.	nor.	AUV.	PEC.	TOTAL
		394.7	164.5	76.7		131.1	30,5	50.9	14,5	15.6	67.4	433,1	1801.2
	445.2		432.0	74,2	97,6	. 11.5	U.5	27.1			469 U		2590.7
1953	250.6		272.0	.240.2	249.7	7,6	53.4	1.5	2.1	P 0			1765 n
1954		; 339,6.	244,8	329.1	259.4.	126.3	41.2	117.9			487.7		.0004.1
	281.2		240.3		146.8	145.6	347.5	95.1	75.1	175.7	452.5		2801.9
1956		220 7	136,5	101.7	96.1	118 6		124.5	28.6		203.6		1975.5
1957	300.1		434.6	110.9	69.8	11.7	252.7	23.7	4.9		123.5		2019.7
1958	239.7	283 8	305.7	235 p	172.4	91 1	108.8	50.2	39.5		153 h		
1959	339.6	296.0	345.2	127.1	214.7	72.5	10.5	1.3	22,1			11.6	2180.2
1900	276,2	294.9	332.0	236.3	206.7	77.7	34.4	7 H	10.3		277.2		2172.9
1961	420.2	283,1	220.1	23F.3	157.1			0.	0.2		151.9		2101.07
1962	477.0				70.0	41.6	21.5	37.4	1 2	86.2		27.2	1968.4
1963	414,5		345.0		11,2	6.6	U .	n.	1.5	6.1		304.9	2321-6
1964	174.0				120.0	97.9	U /	12.8					1566.7
1965	318.2		219.8		64,0	2.6	Ž.U	0.	1.5		213.9		2047.7
1966	320.4	359.8		199.0	66.7	51.1	0,2	4.5	3.0		165.9		1511,4
1967	323.7	277.4	187.1	143.4	26.⊓	. 0	ŭ.	0.	- 11 THE ST.	104.1	226,4		2157,4
1968	329.4	244.2		226.3		245.2	190.3	52.4	23.9	33,5	142.2		154R.0
1969		251.8			26,4	40.2	3.5	1.7		110.7			2736.8
1970	378 0		274.B		168.1	63.2			11.0	on,4	132.7		1866.4
MEAN	336.5		301.3		125.5			- 0.	4441	403.2			2058.9
(14) 李拉点 (1)		a Paula de	38408 - Asi			67,1		90.5	25.4	- 	219.5	378,g.	2106.7

LACTE	MIL A MI	HAINFALL	ΑŤ	DAKEL

YEAR	JAN,	FEH,	MAR.	APR.	HAY	JUNE	JULY	AUG.	SEP.	nct.	NOV.	bec _.	TOTAL
 1951	480.9	401.6	175.0	70.3	7 _{0.6}	131.9	34.3	46.1	22,2	14.7	64,4	451.0	1970.A
1952	451.2	477.2	420.2	81.7	108.9	12.4	2.0	25.0	66.9	140.7	457./	410.1	2674.6
1953	221.5	241.6	310.4	225.2	262.1	8.3	47.0	1.6	1.9	A.ŋ	108,5	3 3 0.2	1816.1
1954	421.1	326,6	279.9	315.9	237.6	111.5	41.0	110.5	61.0	144,0	462.5	460,9	2972.5
1955	266.9	300.9	252.5	239.9	123.3	157.2	332,8	¥9.0	85.8	188.1	481.3	J18.0	2895.7
1950	314.5	223 9	136 9	114.0	105.5	126.6	161,7	131.4	34.4	125.0	216.0	383.7	2073.8
 1957	290.8	317.9	479 2	125,5	7.0.7	10.7	140.5	26.7	4.7	11.7	135 . ը	357.6	2n41.n
1958	243.3	291.2	306.1	237.2	119.2	83,5	115,4	21,1	40.0	87.7	171.4	462.5	2209.1
1959	353.0	303.3	51.4.0	128.7	275.0	81.6	21,5	1.3	24.6	48.5	182.9	507.2	2736.0
1960	324.3	292.3	322.1	238.3	272.4	76.2	35.1	11.B	b 5	57.7	299.0	259.5	2177.2
1961	393.9	268.0	229.0	235.3	131.4	0.4	1,4	0.	ย.5	4 . n	148.9	410.1	1824.1
1962	464.1	2/0.0	202.1	291.8	85.3	46.8	24.1	34.5	1.5	93.2	219.9	517.6	2343.9
 1963	415.0	280.2	335.2	146.3	13.2	7.0	U.	0	1.4	10.4	64.3	294.4	1508.0
1964	169.6	105.9	3-1.5	227.1	135.3	94 h	0 4	13.4	იც. ც	441.2	199.7	556 H	2108.9
1965	324.5	300.3	220.7	137.6	71.2	3.7	1.0	0.	1.5	5.5	100.5	317.3	1504.4
1960	324.5	369.5	342.7	225.7	62.7	57.1	U.7	5.3	4.1	9 ห.ู่ ผ	243.8	462.8	2237.7
1967	342.3	287.5	200.7	159.2	3 ប្រ. ម	0.	ů.	0	0.3	30.9	140.6	401.1	1593.6
1968	321.7	249 3	340.3	230 5	274.6	239 H	200.5	45.1	27.6	122.3	261.5	396.4	2767.8
 1961	355.0	243.2	427.5	197.5	00.0	36.8	3.3	2.9	13,5	65.6	149.5	309.7	1804.1
1970	\$83.0	274.4	286.9	225.2	1/3.0	64,5	.51,9	0,	50,0	87.4	261,1	288.2	2125.8
MEAN	344.1	245.5	305.0	193.3	157.1	67.5	45,6	30,3	25.5	54.h	274.4	374.5	2171.8

BASIN MEAN MAINFALL AT TULUNGAGING

YEA	4 JA	Ν,	Fbm.	HAR.	APH.	MAY	June	JULY	AUG,	SEP.	oct.	NOV.	uec.	TOTAL
195	21	0.7	300.3	171.6	105.h	26,0	100.0	31,0	62,2	80.5	11.6	24.0	264,6	1446.3
195	₂ 36	4 . 4	230.4	204 3	73.2	79.7	10.8	d.U	10.5	#6.2	215.2	418.2	184 0	1943.2
195		វ ិ្ឋ	246.6	3n7 3	19n.7	203.8	15.8	4.7	15.1	2.3	12.5	126.8	214.0	1493.4
195	4 34	3.8	246.9	140.7	219.4	300.5	116.n	4/,5	124.8	43 h	82.1	402.U	270.2	2387.5
195		4 . 4	124.9	220.0	231.3	143.4	1 7 4 A	218.0	117.1	105.7	757.4	299.2	158.4	2675.2
195		6.0	201.6	1 2 1	125.6	156.5	92.5	4 2 B 3	114.4.	32.5	102.9	136.1	322.1	1883.3
195		1.7	355.1	334.5	100.7	32.6	11.7	498.5	33,7	1,4	7,6	106,4	307.4	1979.0
195		9.2	327.7	344 h	228.9	124.6	117.9	104.9	100.8	15 8	135.0	170.6	425 7	2302.9
195		4 . 3	246.4	347.2	147.4	231.6	105.4	134,5	2.7	ა5 . ყ	110.n	146 h	357.7	2419.3
196	44 L	9 5	291.6	314.0	204.7	3.55.0	/1.9	3Y 4	26.6	21.8	71.4	246.6	167.9	2173.2
196		4.0	226.5	146.0	195.6	154.7	1 - 1	∠.0	υ.	U . 1	1.2	41.2	196.2	1289.2
196	• • •	3.7	301.7	264.1	328,2	101.1	150 0	50.0	49.2		127.4	171.1	374.5	2277.5
196		4 . 6	255.4	345 3	168.9	12.0	33.0	Ū.	0.	Ü.	20.7	21.0	165.0	1502.5
196		9 4	191.0	470.0	240.6	237 3	100.5	11.0	49.4	181 9	525 H	143.6	144 B	2407.5
196		8.7	212.1	245 1	101.0	57.5	2.0	5.7	0.	6.5	11.7	99.3	231.5	1350.9
196		6.7	315.9	324.4	261.2	76.2	33.7	u.	2.5	33.5	112.4	251.0	463.4	2226.7
196		1.0	270.9	107.9	155.9	6.7	1.6	Ū,	0.2	0.	10.3	83.4	274.9	1387.3
196		2.0	245.0	4.50.0	233.5	394.7	241.1	314.7	74.H	10.7	125.7	199.4	377.7	3014.7
196		U.4	731.0	273.0	311.4	43.1	-26.5	14,b	12.5	10.3	26.1	150.4	1/7.6	1578.1
197		4.0	305.9	2.14 0	334.h	274.1	69.7	1/.5	1.8	17 U	46.6	244.0	327 B	2267.6
ME.		0.0	261.3	282.3	200.2	148,5	61.2	100.2	40.3	40 B	100.6	173.1	270.4	2002.A

HASTN MEAN RAINFALL AT PARUNULEN

YEAR	JAN.	FEH.	MAK.	APP.	MAY	JUNE	JIILY	AUG.	SEP.	net.	NOV.	DEC.	TUTAL
 1951	271.1	300.7	17/.5	107.1	26.3	174.2	32.U	59.0	76.4	12.0	25.1	262.0	1503.2
1952	365.6	242.9	305.0	77,6	79.2	11.1	٥,٥	10.9	90.3	211.3	435,H	197,5	2034.3
1953	172,2	249.6	310.1	149.6	215.4	15.A	າ.ບ	15.7	2.1	11.4	126,2	224.0	1557.1
1954	353.7	258.4	207.2	237,9	306.1	118,7	4/.0	121.7	43 9	88,5	415.1	777.1	2409,8
1955	275.5	100.3	237.3	243,4	152.3	207.2	541.1	115.1	101.4	267.4	290.3	169.7	2759.0
1956	204.2	257.n	144.4	128.3	122.5	97.5	120.5	121.7	32.5	110.3	153.1	331.4	1959.2
 1957	209.4	344.1	367.6	117.5	45.1	14.1	495,8	35,7	1,7	9.9	115.4	336.6	2091.7
1950	217.3	338.0	357.0	245.7	133.4	109.4	107.9	107.9	12.6	139.0	176.8	452.0	239A.n
1959	431.0	262.6	400.1	143.3	248.1	100.4	130.0	2.5.	30.6	102.5	154.7	385.1	2476.9
196B	366.0	288.1	375 D	205.7	339 2	69.7	30,0	26.4	21.1	70.n	258.5	176.5	2183.0
1961	283.1	226.9	145.1	197.0	154.7	1.2	2,4	ο.	0.1	3.6	42.5	207.7	1314.3
1962	370.2	311.5	243.4	328.3	100.2	153.2	ל, מל	45.3	u. j	132.4	173.4	367.1	2320.2
 1963	467.5	278.1	352.4	197.5	15,7	33.2	U.	0.	Ú.	19.3	20.7	157.4	1559.8
1964	103.5	716.7	427.9	238.2	271.2	103.0	11,2	47,2	194.5	547.5	160.0	151.9	2508.6
 1965	379.2	224.7	239.0	108.0	57,3	2.4	٥, د	0.	7.5	11.0	103.4	246.2	1384.3
1966	384.0	313.0	346.7	288 P	79.1	34 n	U.	9.4	31.6	11A.A	230.5	475.9	2307.3
1967	375.4	241.5	202.3	162.3	6.9	1.4	Ü.	0.2	U 1	11.1	81,5	284 1	1406.8
1968	283.7	235.6	425.9	230.6	318 6	233.2	315.0	80.6	13.2	121.7	206.0	376.7	2971.8
 1969	302.8	235.8	274.8	304.5	41.0	29.9	13.3	11.3	12.0	28.9	144.5	201.6	1600.4
1909	345.9	304.6	245.0	337.2	267.9	74.3	17.5	1.0	76.3	40.7	254.0	320.8	2294.8
MEAN	308.9	200.5	291.5	204.5	152.8	82.2	102.7	40.7	10.9	102.9	178.4	282.3	2054.4
late white	200,7	. 00.	F 44 4 0		10	0211	,		u, • •	-04.4	- , 0 -	- 0 0	

				HASI	N HEAN	RAINFAL	L AT	DUELL						1.
•	YEAR	JAN.	FEH.	MAR.	APH.	MAY	JUNE	JIILY	AUG.	SEF.	oct.	NOV.	DEC.	TOTAL
	1951	349.7	368.6	175.5	68.2	57.3	145.7	33,4	52.7	37.6	13.5	50.6	400.4	1771.2
	1952	425,3	405,6	393.1	50.1	101.0	12.7	4,1	20.7	73,9	105,4	449.0	352.3 300.4	2484.3 1735.7
	1953 1954	204.6 398.4	237.0 307.5	311.9 257.0	216.2 290.1	246.8 260.8	10.6	34,4 42,3	114,0	1.8 55.6	H, B 127,4	157.2 469.0	403,7	2839.5
	1955	263.5	257,0	246.3	241.7	152.5	173.9	390 U	103.4	90.9	213.2	425.2	274.3	2859,9
	1956	279,5	729,5	137.5	114.0	118,0	118,4	184.5	124,5	34.1	127.1	197.6	367.5	2036,4
	1957	262,9	323,2 306,3	410.7 321.0	122.7	61.0 122.1	11.6	ქვ⊄. გ 110.4	29.0	0,0 33.1	11.0	128.3	34H.8 458.6	2846,7 2267,7
	1956 1959	375 9	289.5	371.6	150.1	230.2	90,6 111.6	53.6	6H,5	33.1 28.4	67 H	173.4	468.R	2302.5
	1960	335 b	285.2	324,8	726 5	279.7	74.4	ל כו	16.2	12,4	60.9	288,9	232.0	2175.0
	1961	354.8	254.5	210.0	224 3	135,5	0.5	1,5	.0.	Q.	3.4	116.0	347,8	1657,3
	1962 1963	434.9	215.9	287.6 338.9	300.1 164.5	13.1	71.6	<u>30.9</u> u.	36,6	1.0	104.7	204.6 50.5	254.N	2323.4 1549.4
	1964	104.9	199.4	376.1	729.3	170.4	96.0	3,7	23,2	103.0	475.9	187.5	205.5	2234.9
	1965	341.3	275.2	221.6	174.2	68.8	3.2	2.0	0.	3.3	n, A	142.0	290.8	1480,2
	1966	345.6	350,1	371.0	248 9	66.5	48.0	U,Z	4,5	12,4	104.2	237,2	460,8	2756.4
	1967 1960	344.3	285.2	200.7	101.4 237.2	21.8 311.7	238.3	237.5	0.1	0.2 42.2	20.0 123.4	122,7	362.0 392.2	1528,0 2731,1
	1969	340.2	241.2	3H1.7	231.0	54.2	34.7	0:2	- 55,0	12.8	53.8	146.0	280.4	1788.2
	1970	373.6	276.3	272,7	201,4	200.6	5,80	21.0	0,5	58.3	75,0	256,8	294,9	2168,0
	HEAN	386.5	284,6	245.6	160.0	138,4	72.n	77,1	33,3	ថ័ព្ ូថ	93,9	211.7	34#,#	2111.R
				649	N MFAN	HA INTAL	L AT	<u> </u>	<u>411</u>					المستقد بدريات المتداريات
	YEAR	JAN,	FEH.	нан.	*66*	MAY	JUNE	JIJLY	AUG.	SEP.	oct.	NOV.	bec.	TOTAL
4	1951	346.3	303,4	147.0	40 ¥	58.5	175.6	14.6	50.8	35,6	16.0	49,6	399.3	1787.6
	1952	415.5	402.3	399,4	b4 6	104.8	12.5	4 3	21.3	71.6	106.7	433.5	347.6	2464.3
	1953	214.5 399.4	243.6 - 320.8	327.1 256.8	216,1	247.5	10,6	33,7	6,4	3.6	7,6	155.0	297.3	1763.n
	1954 1955	294 6	245.8	256.4	248 n	202.9	113.4	.18 4 380 ¥	115.0	50.7 93.0	217.6	471.3	385.8 282.4	2858.1 2874.9
-	1956	269 8	238.1	142.7	124.1	136.1	12B.1	180 1	132.0	35.0	119 5	207.0	364.4	2078.0
	1957	274.5	30°, n	434,5	139.7	71.9	13,1	373.2	33,4	3,6	13.7	128.8	348.5	2093.9
	1958	242.6	320.2	328.3	251 3	129.8	87.4	114.0	72.8	33.0	109.1	177.5	459.7	2326.5
	1959 1960	381.8 349.4	301.4 289.6	336.B	143.1 225.2	235.1 289.3	117.7	59.b 35.2	17.2	30.0	67,3	172.7	469,2	2358,3
	1961	332.2	250.5	237.7	222.6	135.4	2.3	1.7	0.	11.5	24.3 24.3	294.U	231,3 344.9	2207.4 1647.2
	1962	426 6	283.0	303,5	306.7	97.2	73.6	31 Y	35.4		104.3	201.6	461.9	2.525.2
	1963	422,7	281,1	347,0	168.6	19,7	15.9	U,	0.	0.4	11.0	56,8	241.7	1706.6
	1964 1965	173.8 336.1	207.2	379.7 220.5	223.7	142.5	94.8 3.4	ა ა ა ყ	27.4	109.0	406,4	189.4	203.1 289.7	2271.4
	1960	340.4	352.4	374.7	257.7	65.4	46.5	u.s	0. 4.2	2.A 12.3	6,5 106.5	135.9 221.2	458.0	1481.2 2244.6
	1967	354,9	264.1	190.1	1/6.3	21.0	0.4	u .	0.	0.3	26.1	110.2	351.5	1527.5
	1966	304.5	247,9	418.6	236.1	307.2	254,1	2.53 y	54,4	38.4	127.	245.3	394,4	2848.1
	1969 1970	344.0 383.7	247.9	341.9	272.6	204.5	34.5 67.7	0.1 25.9	4.8 0.4	13.6 57.2	54 (1)	148,9	283.1 304.2	1613.0
	MEAN	330.6	287.0	310.7	202.A		12.7	76.0	34.1	30.6	73.3	209.4	345,9	2136.0
	· · · · ·			HA51	N MEAN	MAINFAL	LAT	KENTOSO	, v o					
	YEAR	JAN.	FEA,	MAH.	APP.	MAY	JUNE	JULY	AUG.	SEP.	nci,	NOV.	Hed.	TOTAL
	1951	342.3	371.0	191.7	68,2	57,7	107.1	50.2	47.1	38.0	17,4	53,5	395,7	1606.3
	1952	408 4	401.0	397.1	11,86	106.4	13.2	4,1	21,9	67.9	104.3	428,0	351,8	2452.7
	1953 1954	219,2 410.8	246,9 319,8	330.4 252.8	209.4	249,1	10.2	(3 4 30 3	5,8		7.7	152.1	295,4	1777.7
	1955	276.1	243.5	269.0	248 1	153.8	172.0	370.5	110.8 100.0	50.U 89.5	129.3 208.9	469.2 398.4	381.8 283.8	2824.1 2842.6
	1956	271,4	252,2	142,7	123,7	137,0	130.3	170.2	132.0	37,1	116.4	203.4	361,9	2081.9
	1957	278.9	309.8	442.8	112.9	77.1	13.5	300.8	35,7	3.9	14.3	128.5	343,0	2099.2
	1958	241.7 396.5	317.8	329.U 389.4	25p.8	129.9	91.6	110,7	71,9	აც. ც აი ა	111.0	168.4	458,7	2318.3
	1959 1960	351.9	307,7	357.4	151 n 229 3	236.3	112.6	60.2 30.8	1,8 17,6	30.3 11.9	62.4 56.2	169.1 287.5	473.8 229.5	2398.7
	1961	338,2	251.0	239.8	218.9	150,1	4.0	1.9	0	0.0	10.5	115.7	346.6	2724,2
	1962	436.9	292,6	302.6	319.1	90.0	74.6	30,4	35,8	1,9	102.5	203.0	451,2	2341.8
	1963	432,7	296,4	351.0	164.6	23.4	15.7	U.	0.	0.7	14,7	54,9	245,3	1600,0
******	1964	336.1	206.0	228.2	218,9 135,0	194,5	94.4	5,2	27,6	102,4	454.7	189.8	704.0	2765.1
	1966	334 8	355.0	393.7	249.4	71.2	4.2 46.8	4 4 U 8	0.1 3.9	12.0	7,6 10H,4	131.7 218.4	290.2 452.5	1484,9 2746,9
	1967	369.6	303.3	198.0	181.7	25.1	0.3	υ,	0.	U.7	25.2	111.2	347.6	1562.7
	1966	309,6	266,6	419.6	235.1	296.4	226.4	235.4	55.6	37.2		244.5		2833.7

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	YEAR	JAN.	FEB.	MAĤ.	APR.	MAY	JUNE.	JULY	AUG.	SEP.	nct.	NOV.	DEC.	TOTAL
	1951	336.1	362.2	186,2	81.2	42,3	146.3	32.4	37,5	33,2	17.2	47,5	380.1	1702.2
	1952	303.4	367.7	387.7	86.6	102.7	12.4	3 ,4	22.6	50.4	109.3	388.6 131.9	363.9 301.6	2291.7 1777.8
	1953 1954	400.5	759.0 304.9	293.0 225.4	251.3 265.1	235,2 228.1	9.1 95.6	38.9	4.7 99.2	42.7	5.n 121.1	414.3	352.3	2591.1
	1955	300.1	245,8	302.5	241.9	1,041	156.3	325.2	74.4	65.0	108.1	339.0	264.5	2432.9
	1950	292.6	298.8	420.6	- 111 9	120.0	151.4	240.7	112.8 41.4	31.7 5,6	13,1	119.4	340.5	1988.6 1987.2
	1957 1958	239.4	255 %	341.1	254 H	138.6	79.1	105,5	61.4	24,5	99,5	140,9	440,3	2247,9
	1959	400.3	343.0	358.6	161.7	239.6	94.9	50.4	2.2	22.1 13.0	47.7	145.5	448,1	2326.1 2160.4
	1960 . 1961	347.8 317.2	34n,5 252,4	352.6 221.1	236,3	265,4	51.3 6.5	30,2 2,3	0.1	0.9	13.3	105.3	311.9	1577.7
	1962	445 5	306.8	276,7	518.5	72.2	74,5	7∀.8	30.4	4.0	67.7	191.0	402.5	2233.5
	1963	345.0	316.4 203.8	361.6 346.3	101.6	27.6 171.2	14.2 91.3	υ. Υ. 2	22.9	ს.5 83.1	15.6 380.6	43.2 189.7	238.3 195.2	1561.0 2162.2
	1964 1965	1 ⁹ 2.0 31 ⁷ .1	255.2	214.5	126.4	58,8	5,6	4,0	ი. ც	2,5	7.0	102.0	280.8	1374.7
	1966	318,0	360,9	379.3	210.0	66,2	44,4	1,0	2,9	8,5	113,1	184.4	409.1 331.1	2098.8 1546.6
	1967 1968	380.0 201.5	325.9 300.3	193.6 421.0	167.R -718.3	256.6	0.2 198.6	υ. 212.υ	0 45.8	0,6 37,6_	90.2	221 2	328.5	2613.6
	1969	331.6	284.7	348,1	214.9	45.5	24.5	6.8	2.9	8.8	44.0	120.4	248.7 287.4	1680.9 2083.2
	1970 MEAN	326.0	300.7	322.2	232,1	176,3	47,5 65,8	23.1	26.9	42.3 24.1	57,n 79,4	182.0	325.3	2030.2
	apav	0,0,0		01,0,2	****	101,	33.		- •		•			
				HAST	N MEAN	RAINFAL	LAT	SUA+I AS	IN II (<u>ьомыноч</u>	[H-PAKE	n		• · • · - -
	YEAR	JAN,	FEH.	MAR.	APR.	MAY	JUNE	JIILY	AUG.	SEP.	nct.	NOV.	DEC.	TOTAL
	1951	478.6	418,6	195,2	102,2	51,8	113.n	35,3	10.3	30,1	20,5	48,6	494.9	2005.1
	1952 1953	473.1 170.1	579,4 285,1	427.1	108.0 193.4	146.3	10.7	4.6 30.1	23,6	31.4	13H 5 6 5	230.6	491.6 330.3	2849 <u>.4</u> 1966,0
	1954	460.7	301.6	260.6	257.9	255.5	61.n	1/.8	120.0	70,2	127.3	546.7	467.9	2961,4
	1955.	313,6 319,1	301.7 236.5	268,9 138,9	296,2	171,3 143,9	191.4	371.8 203.1	129.7	117,8 54.0	214.2 162.5	631.H 257.3	36R.2	3332.1 2402.4
	1950 1957	280.7	333.5	4(14.9	142.0	$\frac{17017}{71.0}$	 1 - 7 ; 4 -	298.5	31.6	5.7	10.3	169,6	348.0	2083.2
	1958	244.0	320.9	202,4	229.4	100,9	61.0	141,2	53,2	34,5	129.5	243.5	434,5	2291.6
	1959 1960	417.6	298 3 273 7	405.0 314.5	141.3	341.2	92.n 72.9	32,2 30,1	2.1 22.1	36.7 11.3	94.5 46.1	207.5 303.8	481.5 243.8	2447.9 2385.4
	1961	344.5	232.6	217.5	254.6	125.8	0.6	3, U	n•_	1.3	10.4	145.4	395 H	1711.9
	1962	451.3 397.8	219.7	340.4	322.3	_ <u>130.3</u> 17.1	9.2	<u>1¥,5</u> _	18.7		19.1	104.1	280.4	2377.3 1572.8
	1963 1964	171 9	226 5	373.2	249 2	168.1	17,7	U. 1.3	19 2	100.9	548 3	184 2	225 3	2347.9
	1965	300.0	7.06.	242.0	139 6	103.2	7.8	U.S	ų,	υ.	6.4	148.3	279.2	1661.8
	1966 1967	303,1 430.0	413.7	484.U 267.B	300.4 216.5	53.1 39.3	72.6 0.	u.	9.0 0.	5.5 U.1	69.A 23.B	2 ⁹⁵ .4	589.1 398.9	2677.5 1835.2
	1966	341,0	287.0	463.5	298.8	307,9	245.1	220,1	აი რ	4	108,8	296,0	470.2	3172.6
	1969 1970	356.9 429.3	229.3	378.7 301.0	374.4 303.1	66,6 211,7	33.n 74.9	2,3 20,0	0.	20.7 71.2	82.4 106.1	294.9	317.1 297.8	1934.4 2391.6
	HEÁN	361.0	309.0	372.6	214.9	152.2	67 th	67.2	32.0	32,5	105.8	255.7		2320.4
			•											remaining the second
				HAST	N MEÁN	HAINFAL	L AT	SUFFI AS	IN TV (PAKEL -	าใบผลไห้ดี	<u>u</u>	n mang di yang di baga sebi delib an	and the second second second second second
	YEAR	JAN,	FEA.	MAR.	APP.	MAY	JUNE	JIILY	≱UG.	SEP.	oct.	NOV.	DEC.	TOTAL
	1951	329.2	335,8	260.1	105.5	65.4	200.0	40,9	40.7	25.8	28.8	44.6	393.1	15/6.7
	1952 1953	362 6 267 5	279.1	432.9 467.9	108,7 216,3	122,2 251,5	13,9 10,8	29,8	25.0	13.1	10H.4 N.9	351.6	322,7 280.4	1909.3
	1954	405.1	392.1	267.9	276.4	274.2	111.0	17.7	120.3	63,0		484.4	290,3	2831,7
	1955	353.9	186.1	310.5	293.3	159.6	196.0	340.3	119.9	107.7	242.6	318.1	325.4	2953.4
	1956 1957	337.1	283,9	171.9 560.9	230.2	129.8	21.2	150 U	150.4 54.0	45,9	28,0	131.9	351,6	2301,4 2350,7
	1950	267,5	394 B	367.8	306.7	170.3	70,5	124.0	95,6	32,9	139,6	190.0	465.9	2644,2
	1959	413.2	365.1	451.7 400 H	217.7	261,7	115.1	91.0	1.1	38,5	64.5	109.3	471.3	2655.8 2375.3
	1960 1961	405.1 212.3	313,9 229,8	400.8 353.6	217 A 218 6	340,8 116,6	44,8 12.1	33 8 2 3	22,6 0.	6,5 U,	$\frac{44.1}{23.1}$	320.5 99.6	224,6 330,3	1595.3
	1962	343,9	279,6	387.8	342.0	120.5	84,5	37.4	16.2	3.1	102,5	186.0	393.9	2337.2
	1963 1964	411.6 221.1	309.1 248.4	393.9	190.1	55.0 309.5	19.6	U. 1.3	49,6	144.5	. 12.7 . 415, n	202.7	175.8	1658,3 2464,1
	1965	308.8	281.6	214.1	100.6	87.3	4.6	9.8	0.	o.	5.1	103.6	284.9	1489.4
	1966	312.7	365,3	426.2	303,9	59.6 20.8	34,1	1.1	2.0	12,0	119.1	136.1	411.9	2184.0

246,9 101,5 290,6 200,4

320,1 364,3 437,2 336,8

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				HASI	N MEAN	PAINFAL	L AT	SURFRAS	1N V (D	1048140	-KER10S	000)	* -	
٠.	YEAR	JAN.	FEB.	ĤAH.	APR.	HAY	ากพะ	JULY	AUG.	SEP.	nut,	NOV.	DEG.	TOTAL
	1951	299.6 312.0	423.9 330.4	233.5	36.7 110.8	35,7	264.4	46.6 1.0	25.2	52.2 27.3	34,5 121,4	92.4 348.3	36340 . 395,2	1919.4
	1952 1953	200.2	761.5	361.5	287.5	246,8	3,9	34,4	0.	6,7	(),6	140,4	272.6	1886.2
	1954 1955	499.8 337.0	310,1 209,9	199.1	201.0 225.4	208.4 145.6	44,1	35,9 269,8	03,3 32,2	46.6 49.9	140.5	414.5 298.6	342.0 298.0	2594.3 2476.9
	1956	277 0	384.4	126,1	124 6	162.5	144.1	75.0	151.4	49 0	100.0	199.0	300.9	20/2.0
٠.,	1957 1958	304.6 271.8	267.7	532.3	175 0 243 7	137.9	17.4	721.8	51.7	5.2 12.5	24.1	89.5	272.5 428.8	2044.6 2197.0
	1959	521.0	360.3	425.U	21A.A	263.3	100.6	5/,9	4,9	34,8	22.2	120.5	519.5	2648.6
	1960	378,4 374.0	442.5 235.7	320.0 223.7	276.4	274,1 140,8	39,1 17,4	10,2	24,4	10,5 4,7	22,0 40,0	238.1 152.0	210.2 328.8	2296,4 1710.7
	1961 · 1962	507.3	341.9	271.8	432,3	33.3	68,4	13.0	29.5	4.7	011.1	186.5	312.4	2297.2
	1963	470.0	404.7	366, ¥ 435, 3	136.7	61.0	11.1		0.	Ű.	34 H	39.3	310.5	1846.6 2057.5
	1964 1945	170,4 300,7	202.7	273.0	101.3	205.9 49.4	70.1 13.5	24.7	25.3	40.1	323.2 18.3	186,0 81.0	204.5 263.8	1367.3
	1966	244.2	345,4	519.5	106.0	129,3	33.7	4,7	1.5	7.0	97,6	151.0	347.6	2092.0
	1967 1964	487.6 263.1	461.N 417.9	181.8 190.5	250.7 203.6	59.6 176.2	∏. 141.6	υ, 21 0 ,0	0. 39,4	20,5	22.5 75.4	79.6 236.8	301.7 265.1	1830.1
	1969	314.2	273.7	319.2	717.8	30.0	10.5	12.4	0.2	3,0	54.7	148.0	172.1	1555.8
	1970 HEAN	345,3	323,2	331.9	188.5 203.0	178,2	50,F	14.1	25.1	28,6 71,1	70.9	216.1	305.5	2077,2
		•	,	•				•	•	•	•	•		
				## <u>\$1</u>	N MFAN	HAINFAL	L AT	SUHTI AS	14.VI	HIDAS R	TAEH B¥	SINI		
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	YEAR .	JAN,	FEH.	MAH.	APH.	MAY	JUNE	∀∟اال	AUG,	SEP.	nct.	NOV.	uec.	TUTAL
	1911	37.0	338.0	155.H	85.1	15,0	127.4	21.1	10.9	19.5	12.5	27.0	277,6	1424.1
	1952 1953	267.5 281.0	396.6 327.0	393.8 224.5	75 R 325 5	103,4 233,0	9.1	1 4 20 7	14.1 2.5	17.1. 2.0	107.6 0.5	277,0 89,4	305,5	1958 <u>.9</u> 1824.8
	1954	378.2	303,8	225.4	220.0	180,9	81.3	40,3	85.1	15,5	7 H . n	338.7	212.4	2194.0
	1955 1956	268.2 223.5	219.6	366.6 161.1	25n.2 77.8	208.8 128.8	144.2	225,4 64.9	20.1 80.4	23.6 12.2	115.n 101.9	180.0 149.6	200.8 283.0	2727.5 1738.3
	1957	367.5	246.6	380.0	131.6	70.0	14,3	110,0	55.8	0,6	7 5	71.6	245.3	1679.2
	1958	208.5 403.7	446.3 508.3	405.4 312.7	333.4 214.1	195.4	44,0	79,6	45.6	11,1	42 A	100,7	406.0	2267.0
	1946 1968	301.6	361.3	387.2	3-0.8	300,6 224,2	66.8 14.5	42.1 24.2	2.0 11.5	17.7	7. A 20. 0	114.5 275.6	363,5 198,3	2301.6 2099.4
	1961	214,4	253.7	141.4	255.4	137,4	8.6	4.4	O.	υ.	14.2	60.1	289.2	1417.3
	1962	488.9 281.4	319.4	349.7	254.7 196.6	42.6 57.0	46.0 10.7	<u>/</u> , y	14,5	1,2 4,	33 <u>,1</u>	205.3	26H, B	1945,A
	1964	140.0	201.0	42d.4	102.0	151.5	88.9	10,3	14.8	54.7	205.3	212.1	225.5	1944.5
	1965 1966	231.0 256.8	153.6 326.4	153.6 296.2	113.3	40.8 49.1	0.6	1,4	n.	3.3	5 ñ 64 5	51.4	241.6	996.7
	1967	354.5		197.1	229.2	12.9	52.7 0.	U.	0 • 0 •	1.0 U.3	4.0	1 (16.5 58.7	390.1 326.3	1696.3
	1966	202,6	249.1	493.1	220.3	713,3	127.8	104.5	21,6	30,0	13,4	210.0	208.1	2162,6
	1969 1970	314.6	300 5	269.1 457.1	235.2	26.5	18.6 18.5	<u>ა,7</u>	0. ម.	U.3	36.4 12.0	5 3. 9 199.5	227.0 256.2	1554.4
	MEAN	296.7				125.2	52 F	42.0	19,0	12,1	17 1		280.1	1821.3
				#AS]	N MEAN	PA INFAL	L_A ^T	SUR-HAS	In_VII	(KERTOS	ALU-UNÜ	RON1.		
	YEAR	JÄN	ren.	MAK.	APH.	MAY	4.141-	6. 14		4:1:0	0111	A-1017	fn 6	T1) T
							JUNE	JULY	AUG.	SEP.	nu i	NOV.	nec.	TUTAL
	1951 1952	324,5 278,3	351.3 304.7	179.0 354.5	65,4 50.6	15.0 97.5	110.4	24.1	21.1	27.5	17.1 97.7	33.1 321.1	345.1 398.6	1521.4 1999.1
	1953	288.0	271.9	215.3	307.7	210.4	6.4	52.6	2.6	2,3	п.н	88.9	304,5	1756.8
	1954 1955	3°6 1 299 2	276.n 238.n	170.4 363.2	228.7 219.4	179.4	68.n 121.d	34 y 236 3	65,6 22,0	10,2	115.0 85.4	310,6 232.6	281.9 239 6	2148.A
	1956	224.8	297.6	152.0	46.6	110.4	172.8	54.0	83,9	16,3 31,0	96.0	167.5	285.7	2707.8 1793.6
	1957	292.9	266.3	419.6	125.6	59,6	14,7	101.4	47,9	7.2	12.4	100.0	274.n	1733.2
	1958	430.1	331,2	255.4	238,5 165,0	144.1 228.8	67.7	91.4 49.4	1,8	11.4	83.9 18.8	82.8 96.1	394.5 397.1	2071.4 2181.1
	1960	341.9	400.0	359.0	230,7	210.9	19,7	26 S	10.0	17.9	21.2	178.7	186,5	2010.8
	1961	266.0 460.2	237.9	184.4 219.5	179.2	124,3 37.5	13.4	2/ 0	0,4	0.9	24.7	84.U	245.6	1364,7
	1962 1963	317,1	368.0	346.9	146.9	36,6	12.9	21.0	21.5	3.2	12.7	150.9	304.1 725.3	2024.7
	1964	227.0	189.2	421.8	156.6	128,9	01.P	23.1	16,9	43.9	803.9	197.4	171.7	1902.2
•	1965 1966	292.3	225.6 362.3	376.6	106.1	36,3 72,9	6,5 38,3	2.4	1.0 0.6	2.2	6.6 118.4	51.h	760.4 320.1	1189.3 1839.8
	1967	409.1	377.6	172.5	179.9	11.5	ο.	U.	0.	2.0	7.3	53,h	265.4	1480.7
<u> </u>	1968	231.4	382,9	418.3	181.9	196.7.	141.6	17/.4	37,4	30,5	38,3	175.1	218,0	2234,4
	1969 1970	299.4 344.4	335.7	300.0 346.4	153.3	129,8	11.1 15.5	7.3 10.3	0. 0.5	18.4	21.4	59.2 160.4		1426.1
		312.7	313.2		1/4,0	110.5	54.0	45.6	19.6	14.0	55.6			

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4. Monthly Mean Discharge at 13 Discharge Gauges

The compiled herein are the monthly mean discharge calculated based on the original data at 18 gauges during 1951-1970 period. The gauges are Karangkates, Pohgadjih, Kaulon, Pakel, Djeli, Djombiru, Kertosono and Djabon on the Brantas River, Wadi, Bendo, Parit Raja, Tulungagung and Pakendjen on the Ngrowo River, Soeloredjo on the Konto River, Widas on the Widas River, Mirip and Perning on the Surabaja River and Kepadjaran on the Porong River. The location map of the gauges is as shown in Fig. 2-1.

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(1077) 157												(Unit	3 m /se	3114 - 1 c) 1 1 1	· · · · · · · · · · · · · · · · · · ·
2 6 70 5 7 6	ti ta tarih Garana 2011an	ro u	-(1)	Dische	irge a	t-Kara	ngka te	s Dam	Site			<u>, , , , , , , , , , , , , , , , , , , </u>		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	`
FEÁR	JAN.	FEB	HAR	APR.	HAY	JÜŅĖ	JULY	AUG		oct.	NOV	nec	TOTAL	MEAN	34 1
a Wasan and	Popular .		9		1 1			•	<u> </u>	in a spanica		14 + 1,4		55.1	_
	79.73	153.1 117.1		47.2 65.6	40.1	31.2	32.4 21.7	27.0	25.3 19.3	18.5 20.8	20.6 78.1	63.7 62.0	601.6 713.5	10.5	*
1955 1954	02.0	58,8	56.1	65.9	80.6 80.7	46.8 55.0	29.7	21.7 41.2	17.9 23.7	17.2 27.0.	28.8	127.7	559.9 257.8		Ϋ́
4995	98.0 137.4	114 1 1 109 0	90.6 62.5	83.6 59.0	64,6	86.2 73.7	124.5	78 B	62.7 35.6	77.6 41.8	129.3 58.0	121,8	1152.7		
1957	73,4	116.2	168.7	88.1	70.4	42.6	75.1	44.3	78.6	27.9	27.7	73.5	829.0	69.2	, , ,
1958 1959	55, d 84, 3	78,6		99,5 88,0	83.0	63.R	47.1	35,0	27.8	31.4 26.0	33.2 43.4	113.3	735.7 855.1	71.3	-
1960	107.4	80.0 71.2	95.4 52.0	96.4 56.0	98.4 58.1	45.3	43.5	51.5 38,5	47.1 30.8	43.3	. 60.5. 41.2	62.4	637.2		
1962	84.4	73.1	19,4	74,7	49.1	20.4	42.1	42.1	31.6	39.0	54.0	95,3	706.4	58.9	4 3
1963 · `	54.4	23.1	110.7 78.1	80.3 59.6	56.6 48.7	52.2 42.n	45,4	411.7	43,0 <u>-11</u> .0-	39.1 	42.4 	65.9 	652.3	64.0 -54.4	-
1965	93.9	110.8	94.D	77.2 75.8	65.7	57.0 06.4	54.5 44.7	44.0 35.9	38,0 36,6.	36,5 343,4	40.2 58.8	,77.8 89.5	765.8	. 65.4.	
1966 1967 1968	146.0 189.7	130,1	73.3	70 B 82 5	56.6	53,3	40,1	44.1 73.5	39.5 47.9	39.4	44.4	115.5	NB4 1	73.7	
1969	153,4	156.6	198.6	186.4	94.0	71:6	12/,2 55,0	45,5	38,3	32.9	47,2 35,9	` 65.1	1102.4	94.6	
41.1	72,1	BA,9	106.7	80.8	70.9	. 25°u	43,5	31.8	32.3	35.4	47.3	66.7	728.4	-60-7	-
TOTAL	1873.3	2042.9	1946.9	1616,0	1416.1	11/8.6. 58.0	1094.D.	842.0 44.6	690.1	776.1 38.8	1040,1 52.0	1657,1 82.6	10224.2	67.6	
reserved to		10.11		~υ• Ε'				4410	u-10	40.4	- C , U	J	1		st.
			-(2)	Disch	lrga u	t Poh	ndiih			· .					_ ;
			(-)	2730110	60 : n	o rout	saa jirii				1.5	in the second se			
YEAR	JAN.	FEH,	MAR	APR.	HAY	JUNE	UULY	ΑUG,	SEP,	OCT.	NOV.	Dec.	TOTAL	MEAN	
1951	135,9	167,8	85.3	61.0	51.9	57.3	3/,3	30.6	27.7	21,4	22.5	66.9	765.4	63.8	
1950	71.6	140.6	<u> 153.4</u> 73.5	75.2 77.9	93.9	38.4 51.1	2/.4	25.5 27.0	23.1	34.1. 21.4	89.n	74.1 50.6	642.3	53.5	- ′,
1954	118.7	94.5 128.3	78.9	81.5	89.7	68.9	44,9	46.5	32.1	39.3	118.7	101.2	953,3	79.4	
1955	151.0	127.6	94.0	96,8	97.0 83.0	95.3	132,9	90.2 67.8	73.3 51.3	51.8	151.3 . 58.4	130.2	1304,4	86.9	
1957	88.1	83.4	173.6	106,4	82.0 81.5	52.3 77.1	92.5. 70.7	57.6	42.2 45.1	36.7 50.9	44.0 53.2	77.6 118.2	977.3 918.3		
1959	96,6	126.7	170.8	89,1 114,5	92,1	75.5 79.3	52,2 7u,3	46.1 56.5	46,2 50,5	39,4 46,5	51,6 70.6	115.2	972.6	81.0	<u>.</u>
1961	122.7	86.6	^/ <u>1</u>	73,6	74.3	52.7	54,7	47,7	41,2	34.2	44.2	-1.0	6,96.0	, 63,3	9 ,11
1962	104.3	. 90,9 . 90,9	87.6 87.6	33,9	68,5 68,5	60.0	44.5	48,7	36.0 36.0	42.1	63.1 63.1	114.7	859.5 858.9	71,6	
1964	114,3	129,3	106,5	77,5	74.5	61.7	52.9	47.3	46.2	107.7 39.H	89.b	80.7 86.1	844.3	70.3	_
1966	86,2	124,0	135.5	117,3	91,3	74.2	55,6	46,5	43 0	52,5	71.0	132.7	1027.0	85.4	
1968		139.2 243.3		99.6 111.8	67,4 175,7	58.2 157.9	51.U 152.0	100.5	42.1 66.8	41.A 88.2	46.7 92.5		1592.9	82.0	
1969	164,9	165,0	207.2	193,9 94,4	101.0	01.0	60.0	49.1	45.5 38.4	38.5 42.5		67.3	1210.0	101.7	
	2 1 4		3 3									. 1		73.4	-
				1955 R 97 R					450 U			1909.8	19256.6	80.6	٠.
* ***											. •	7	1 S 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
			 (3)	Disc	harge	at Ka	ulon			* <u>* </u>				· · · · · ·	-
YEÀR	JAN'.	FE0.	MAR.	APP.	No.	JUNE	Jilly	AUG.	SEP.	OCT.	NOV.	DEC	TOTAL	HEAN	
1951	166,9			97.3	87.0		54.5	25,2	.46 . U	42.5	- :		1077.3		. <u>-</u> 1
1953				111.5	141.4	75 B	78,1	45.0 48.8		40.7	126.7 54.8	110.1 61.2	1012.7		
1954	154.8	. 157.2	125.2		131.2		75.1	72.0 125.5	60.3 89.7	61.8	155.0	198.6	1427.7	119,0	6
1956	100.9	143.9	117.7	93.1	99.0	69.1	95.9	6,00	01.5	63,3	80.6	101.3	1467,1	122.3	
1957 1958			189.3	123,4	92.7 107.9	70.3 63.8	143.4 97.7	83.7 <u>01.6</u>	21.7 10.2	45.9 04.6	51.6 74.6	109.4	1718.9	101.6	
1959	146,7	132.0	148.5	112,8	108.3	90.5	60,3	46,2	44.2	38.0	51,2	158,6	1143.3	65,3	
1961	142;5	121.6	93.5	107.8	99.1	70.8	83.1 52.5	52.7 40.4	42.5 33.8	38.X	54.9	82.6	932.4	96.7. 77.7	~-1
1962				11A.9 149,5	90.0		60.5	67,9 54,4	50.6 52.9	58.0 57.7	93.2	114.8	1100.0	91.7	3 :
1964	104.8	117.7	150.4	121.9	144.5	124.5	87.1		72,5		144.5	118.7	1431.7	92.2	
1966	75,1	141.4	171.5	118.1	102.6		72.0	38,9 71,3	34.0 43.5	67.7		71.7 167.8	1213.0	75.6	
1967	140.2	123.7	18477	156.1	105.0	91.4	7/,5	47,6	37.4	52.0	96.6	137.7	1208.8		
1968		112,3	113.9	. 100.5	129.1	43.6	1 -1 .0:	+1.0	94 b	66.8 57.1	86 0	121.4	1077.2		

TOTAL 2708 3 2670.7 2757.4 2507.4 2167.0 1821.1 1537.7 1186.4 1065.2 1210.5 1722.2 2383.2 2870.8 135.4 133.5 137.9 125.4 108.3 91.1 80.9 62.4 53.3 61.0 86.1 110.2

- (4) Discharge at Pakel

-	YEAR	JAN,	FEB.	MAH.	APR.	HAY	JUNE	JULY	AUG.	SEP.	DCT.	HOY.	DEC.	TOTAL HEAN
	1951	212,4	296,0	194.6		.117.1	127.0	93,3	69,6	56.7	49,8	47.5	140.8	1500.8 130.1
	1952	105.3	236,9	303.2	180.5	110.1	100.0	64.5	37.7	27.3	<u>590.</u>	197.6.	157.7	1703.4_142.0
	1953	146.0	156,6	173.1	182,6	227.5	104.6	79.6	56.5	50.3	42.0	59.4	80.8	1309.1 114.1
	1954	132.1	179.6	181.4	215.7	223.8	156.0	104.9	98.0	72.9	73.0.	179.3	2877	1904.4:158.7
•	1955	226.9	230.6	210.1	242.3	209.5	194.4	720 Y	108,5	129.0	94.3	210,7	184,6	2329.6 194.1
	1956	216.7	198.6	164.8	138.7	153.8	173.6	160.6	142.5	100.4	111,0	123,3	106.8	1870.8:155.9
	1957	177.7	252.0	241.4	186.7	158.8	94 0	164.4	96.5	60.9	42.5	55.3	119,9	1647.9 137.3
	1958	101.6	181.4	215.2	217.3	151.5	122.2	141.0	94.6	01.4	69.7	98.5	224.7	1677-7-139-6
-	1959	226,1	229.7	260.9	145.5	186.2	133.5	79.1	58,4	21.2	45.4	65,2	191.6	1673.2 139.4
	1960	170.3	220.8	245.4	200.7	233.2	123.8	100.3	72.5	56.5	54.4	117.3	98.7	1703.9.142.0
,	1961	174 1	156.8	136.0	156.5	137.5	61.6	ัดบุ้ง	45,5	38.4	36.4	50.9	102.1	1196.2 99.7
	1962	202.5	174.6	170.0	214.6	155.3	98.7	7/.6	64,6	46 8	45.4	98.2	212.8	1509.9 130.6
	1963	232.1	213.5	254.5	170.6	94.1	68.8	60.2	53.5	44.4	40.2	44.1	75.7	1354.7 112.9
	1964	68.7	96.0	145.1	162.7	195.5	159.2	62.0	58.4	64.1	117.8	111.0	127.3	1387.8 115.0
_	1965	214.4	221.5	190.6	100.D	84,5	73.4	63.U	57.1	42.4	39.3	64.9	121.6	1348.2 112.3
	1966	134.9	169.4	210.2	183.0	133.9	84.2	67.2	62,1	51.2	65.7	91.0	132.5	1385.3.115.4
	1967	229 8	178.1	170.2	195.8	111.8.	/2.0	43.5	47.1	40.0	44.5	61.9	160.1	1306.4 113.9
	1968	166 6	161.1	174.3	170.0	232.6	238 6	208.1	111.3	98.6	124.7	176.0	217.3	2077.0 178.1
	1969	217.2	182.0	241.0	221.0	117.7	115.5	70.0	71.6	62.5	62.0	108.7	148.0	1663.4 138.6
	1970	107 2	177.5	220,3	195 3	147.7	114.3	72.4	53.4	60.4	75.2	132.0	156.3	1599-0-133-2

TOTAL 3654,6 3912,7 4164.1 3704,0 3182,1 2436,3 2020,5 1519,2 1255,9 1290,6 2093,6 3132,1 32388,9 135,0 MEAN 182,7 195,6 209.2 185,2 159,1 121,8 101,2 70,0 62,6 64,5 104,7 156,6

--- (5) Discharge at Djeli

YEAR	JAN,	FEH,	MAH.	APR.	ндү	JUNE	JULY	∡ÚG.	SEP.	OCT.	NOV.	DEC.	TUTAL MEA	ĮN
1951	301.0	365,7	27/.V 504.9	171,0 241.9	117,7	189.4 109.8	114,4	გე. გ	76.7 59.3	56.6 84.1	59.2 342.2	178.5	1989.3 165.	
1953 1954	190.0	251.0	229.9	225.3 224.3	271.4 306.5	115.8 195.6	90.8	57.6 108.7	45,4 85,1	39.2 74.8	61.8 353.8	117.0	1695.2 141. 2529.1 210.	3
1955	307.5 372.7	320.3	239.6 243.0	362 n 181 3	285.2 211.4	249 (1 215 9	447 U 212 0	292.8 177.2	193.7 114.8	218.0 126.0	473.6 153.9	277.6 348,4	3606.5 305. 2643.8 220.	5
1957	255 H 146 4	338; n 266, 1	376.0 304.0	244.A 246.3	184.0 195.5	102.6 145.5	343 0 188 0	137.7 130.8	76.1 77.1	57.2 _109.1	66,7 147.9	150.1 293.5	2352.6 196. 2301.0 191.	7
1960	450.8 303.0	433,9	448,8 350,0	264.5	344.0	220.1	170.1	65.1 88.1	68.7	57.2	95,1	306.5 145.9	2823,5 235, 2397,4 199,	Ð.
1961 1962 1963	294.6 286.8 432.4	240.1 258.6 349.0	202.8 242.0 572.5	206.7 328.7 321.0	192,3 209,4 139.8	92.1 106.0 85.0	54.3 90.5 68.1	51.6 76.4 54.4	40,7 50,4 45,6	41.8 60.5 46.4	62.5 192.0 55.0	126.7 350.8 112.0	1611.7 134, 2253.0 167, 2231.7 185,	, 7
1964 1965	102.5	122.6	207 3	302.2	113.8	157.6 81.8	64.5 61.0	55.4 53.n	84 6 49 7	366.8 49.7	-207-1- 65.7	156 B -1 0	1917.4.174. 1590.9.144.	٠
1966	171 6 244 5	235.0 +1.0	383.5 186.6	344,2	174.9	126.2 86.8	75.U	68.2 54.5	55.4 44.6	8n.1 43.5	100.7 65.0	257.3 157.8	2072.3 172. 1270.7 115.	, 7
1965	209 9 255 6	188.2 242.6	286 3 351 4	260.2 279.0	300,0 1 ⁸ 2.1	პი2 ი 143 n	495 u	179.3	112 1 58 3	162.8 67.2	179,6	301 9 155 5	2785.9 737 1990.# 165	. 2
1970	-1 .U	-1.0	-1,0	-1.0	-1.0	-1 D	-1.0	-1.0	-1.n	-1.0	+1.n	=1.0		

TOTAL 5159 6 5236 3 5923 9 4956 3 3807 5 2908 5 2702 3 1861 9 1403 5 1795 4 2945 2 4086 0 42791.4 190.2 MEAN 271 6 291 0 311 8 260 9 211 5 153 1 142 4 98 0 73 9 94 5 155 0 227 0

---- (6) Discharge at Djombiru

YEAR	JAN,	FEH,	MAR.	APP.	MAY	JUNE	JULY	AUG,	SEP.	OCT.	NOV.	DEC.	TÓTAL	MEAN
1951	200.1 267.2	334.6	229.1 419.0	129.0 203.5	103.2	155.7	96.9 41.5	13.9 49.7	60.4	43,9 73.4	39,4 281.3	153.2	1709.0	
1953	171.4	213.9	262.4	211,4	336,0	119,3	RZ,Z	52,9	41.8	35,4	- 58,5	120.6	1705.8	142,1
1954 1955	257.9 279,3	257.4	275.1	236,9	291.8	1/8.6	11/.3	230.2	81.6 149.7	76.0	335.0 393.4	43h.3 214,4	2610.6	247,3
1956 1957	253,8 197,2	262,6	189.8 452.9	151,5 248,5	156.6	170.6	190.U	152.0 123.1	93.1 77.6	117.4 65.5	132.8 73.5	252.2 185.5	2208.9	
1956	343,5	318.7	374.7	228.5	203.4	225,6	170.7	123.4	75.6	114. <u>n</u>	159.7. 128.9	280.0 289.8	2021.1	218,4
1960 1961	280,8	312,2	322.9 204.3	293,3	394,5 201,3	701.7 109.7	152,4	105.7 75.5	89.8 70.1	85.0 77.7	185.0 73.3	168,7 137.6	2592.8 1786.9	148.9
1962 1963	261,1 346,1	248,7 351,2	247 6 459 7	28n.5 3u7.1	1 ⁹ 5.0 150.5	131.0 128.2	114;4 100,0	91,2 82,0	71.8 74.8	86.6 72.5	158.3 84.4	354,7 130,9	2240.9	
1964	278.4	368,0	213.6	230,8 195,3	230.5	108.8	94 6 95.U	78.9 94.5	100.8	306.0 69.H	179.1 97.0	160.9	2006.3 1962.8	172.2
1966 1967	207.5 328.1	301.6	339.2 218.2	313,0	188,5	153.3	110.5 72.9	103.7	81.1 72.4	114.3	167.6 96.1	330.5 200.4	2410.8	200.9
1968	232.5	235,3	396.5 344.4	284.4 390.0	363,5	319.7 175.3	373,0 114.0	212.9 108.1	141.1	186.5	234,1 152,4		3335.7	275.0 214.8
1970	273.7	299 1	343 1	319.9	302.4	222 7	140.7	120.0	129.5	133.1	216.8	290.2		232.4

TOTAL 5147,0 5618,5 6053,7 5023,5 4326,0 3226,8 2931,3 2169,9 1744,1 2099,0 3247,1 4701,5 46288.4 192,9 MEAN 257,3 280,9 302,7 251,2 216,3 161,3 146,6 108,5 87,2 104,0 162,4 235,1

(7)	Discharge	at	Kertasana

YEAR	JAN.	FEB.	MAK,	APR.	HAY	JUNE	AlleY	AUG.	SEP,	nct.	NOV.	DEC.	TOTAL HE	AN
1951	323,9	424,8	289,5	148.6	109.9		106,1	74.7	51.3	34.9		136,5	1895 1 157	
1952	284,4	447.1	510.6	231.1	134.5	117.7	48.4	27.9	<u>.34.1</u>	<u> </u>	295.5	223.5	2413.2 204	-1
1953	209.0	743.2	319.3	272.0	377,0	116,6	85,0	22.9	36;1	32.A	53.9	102.4	1921,1 160	. 1
1954	269.8	280.5	227.1	226.6	299.4	198.2	127.4	125.9	64,8	61.9	337.3	.479.4	2702.8 225	. 7
1755	384.4	345.7	295.3	304.9	207.1	241.5	390,2	270.4	177.0	186.0	424.9	258.8.	3496,2 291	. 3
1956	325.0	311.6	236.0	105.1	185.4	717.9	234.2	184.4	114.7	129.6	162.6	330.8	2597.3 216	4
1957	252.1	301.1	487.4	308.1	225.8	117.5	ತತೆ∀್ಕತ	191 8	93,3	67.7	87 O	250,6	2720,7 226	. 7
1958	160.0	294.5	302.5	293.7	210.6	154.7	148 9	122.5	82.7	120.3	100.0	294.3	2345 4 195	
1959	447,0	165,5	455.5	328,7	392.0	350.9	271,5	137.7	96 ູ່ ອ	05.5	91.7	297.0	3268.8 272	. 4
1960	363,0	713.5	352.4	293,9	395,3	210.4	197.5	117.6	84,8	70.5	200.8	146.1	2669.4 222	. 4
1761	292.4	269.5	269.1	261,5	212,7	1.0.1	104.6	85,0	6,00	57.4	4, 8	137.1	1940.5 160	. 0
1962	272,3	301.1	284,2	376,9	288,8	152.1	111.0	09,4	50,5	61.3	108.0	359.9	2521.1 210	. 1
1940	444,5	425,8	500.0	341.8	201,8	152,4	134,5	49 4	61.2	77.4	82.7	136,6	2596.8 216	.4
_1964	181.0	213.5	414 3	350.6	309.4	299.0	144.6	1117.0	121.4	384.4	301.4	367.2	3208.4.267	
1965	552,4	693,4	475.8	302.0	184.7	107.5	125.5	102.D	96.1	85.n	143.4	274.9	3260.2 271	. 7
1960	315.9	441.2	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	. 757.1 378	. 5
1447	353,1	274.1	248.4	300.7	165.7	150.7	100.1	108.4	112,6	110.0	104.3	578.5	2457.6 204	.8
1960	350.0	398.6	718,7	544.7	591.Q	503.6	574.7	457,5	180.4	247.6	271.5	524.8	5345.7 445	
1964	412.2	584.1	573.8	676,7	244.0	214,8	159.9	126.H	123.0	122.6	187.0	294.1	3869.8 322	5
1970	320.6	394,0	444.7	461,0	435,2	302.4	212.2	147.1	141.6	141.5	208.1	283.3	3560.9 295	7

.... (8) Discharge at Djabon

*eak	JAN.	F £ ⊌,	MAŘ.	APR,	HAY	JUNE	AUFA	AUG,	SEP.	oct.	NOV.	DEC.	TOTAL	MEAN
1951	\$04.1 505.7	683.0	474.8 776.0	157,9 366,0	117.1	212.4	101, y 55, 3	40.0	49.6 39.6	36.6 57.4	32.4	226.6 463.2	2654.1 3655.7	
1953	370.3	395,4	458,4	448,0 305,0	660.6 454.0	137.1	100,4	45,3 121,6	35.2	31.A	54,5 502,4	194.5	2967.3	248,9
1955 1956	524.0	505,4	359.3	932.A	354.9 184.9	341,9	270,8 210,8	347 (0 164 (0	176,2 87,1	193.7	604.7	333,7	5055.0 3183.7	421.3
1958 1956	345,3 233,0 792,3	946.2 591.0 715.3	800.1 567.2	351.1 547.2 371.6	186.2 327.1 423.4	88.8 141.7 288.3	359.0 201.3 135.6	110,9	52,9 51,5 45,1	38.4 81.5	51.9 129.5	302.9	3328.9 3425.9	285.5
1960 1961	536.2 41h.3	297.2 447.3	645.2 322.1	460.9 296.5	545,4	150.3	132.1	40.7 37.8	41.0	პგ.ა აგ.ი 25.გ	69,4 151,7 37,1	436.8 178.9 109.0	4056.8 3232.6 2108.8	269.4
1962	474,8 597,1	499.n 727,4	384.1 841.8	543.H	306.4 163.2	128.3	90,4 55,3	56.9 44.2	32,7 33.0	4n,8 3n,4	147.5	377.A 122.9	3087.6 3251.8	257,3
1965	393,4	1 hd . 4 479 . 3	352.1	-278.6 197.7	75.0	70.4	44,D	41,2 32,6	27.0	23,5	212.1 33.7	155.7 156.8	2419.9 1886.1	201.7 157.2
1960 1967 1968	263.0 460.0 219.6	525,6 420,9 404,5	585.3 372.5 580.0	411.6 381.4 4/6.9	108.4 144.9 473.0	105,2 59,5 336,9	54,9 40,9	33,8	27.5	45.A 27.6	72.1	304.5 164.9	2595.A 2154.7	179.6
1949	385.9 275.6	480.7 449.0	474.3 3n2.9	4H2.1 374.H	132.8	1/3.0	აცხ.ა 5ა.ა <u>4</u> ¥.1	1 ⁹ 6.6 35.7 36.6	90.9 29.7 42.0	188,1 33,2 40,3	168,5 53.5	410.2 105.4 168.8	3846,5 2390,5 2375,0	199.2

TOTAL 8477,410056,010435,2 7896,2 5643,1 3428,9 2402,9 1700,5 1077,9 1429,5 3087,1 5782,0 61776,7 257,4 HEAN 423,9 507,8 521,8 390,3 282,2 1/1,4 145,1 85,0 51,4 71,5 154,4 289,1

---- (9) Discharge at Wadi

YEAR	JAN,	FEH,	MAR.	APR.	4A.Y	JUNE	g(IL)	AUG,	SÉP,	oct.	NDV.	v€c.	TOTAL	MEAN
1951 1952	15.0 19.8	22.6 15.7	13.3	4,4	2.3 4.7	14,5	2.9 U.V	3.2 0.4	4.2	1.6	0.7 22.1	6.3	91.0 116.9	7.6
1953 1954	7.6 21,6	17.7	17.1	10.9 12.4	18.9 17.5	5.3 16.2	2.5 1.9	0.5 12.5	0.5 2.7	n.4 1.7	2.0 35.8	6.7	90.1 190.4	7.5 15.9
1955 1950 1957	17.8 25.8 16.7	16,1 25,0 33,9	11.7 12.5 54.6	27.3 12.0 23.2	20.3 9.4	20.8 19.3 2.2	51,5 40,2	23,4	7.6	3n.k 12.∺	34,8 10.0	14.3	295.4	24.6
1958	10,2	30.3	19.8	24,9	13,1 30,6	7,5	38.0	14.1 20.0 1.6	2.0 4.6 0.7	0.6 15.4 2.2	2.2 -21.5 7.1	17.7 31.8 33.9	216.3 216.2 204.4	18.0 19.0
1960 1961	30.7 20.5	17,6	37.6	25.3	55,5 14,6	11.7	14,3	9.0 21.9	18.9	7,8 26,5	8,4	8.1	252.0 209.4	22.0 21.0 17.4
1962 1963 1964	2,7 47,3 -1,0	0 R 36 6 -1.0	0.2 40.5 -1.0	0,1 25,7 -1,0	2,4 3,8 -1,0	2.8 0.7 -1.0	2,4 0.3 -1.8	2,6 0.1 -1.0	0,2 -1,0 -1,0	0.5 -1.n -1.n	10.6	22,0 -1.0	48,2 1>5,0	19,4
1965	20.2 22.5	33,4 -1,0	12.2	5,1 26,4	1.8	0.7	U.3	0.1	-1.0 2.1	-1.7 22.0	-1.0 -1.0 -1.0	-1.0 21.3 -1.0	95,1 105,4	10.6
1967	-1.0 5.5	-1.0 -1.0	-1.0 -1.0	-1.0 -1.0	-1.0 -1.0	-1.0	-1.0 -1.0	-1,0 -1,0	-1.0 -1.0	-1.0 -1.0	-1.0 -1.0	-1.0 -1.0	n. 5.5	15,1 0. 5,5
1969 1970	19,6	-1.0 -1.0	36.9	26,1 39,5	6.1 41.2	1,n 21,4	-1,0 -1,0	-1.0 2.9	-1.u 2.9	-1.0 -1.0	-1.0 -1.0	-1.0 -1.0	72.1 152.3	18.0
TOTAL	351.5	319.9	408.7	305.6	260 7	454 0	287.2	496 7	76 7	424 9	407 4			

TOTAL 351,5 319,9 408.7 308.6 260.7 153.0 23/,2 126,7 79,7 126,8 183,4 250,7 2803.1 15.6 MEAN 20,7 22,8 24,0 18.2 16.3 9.0 15.6 8.4 5.4 9.8 15.3 10.3

- (10'	1	Di.	scha.	TOO	a.t.	Bendo	
٠,	1	<i>!</i>	111	Sent	+ Ka	αv	Demno	

YEAR	JAN.	FEU.	HAR,	APR.	MAY	JUNE	JULY	AUĞ.	SEP.	OCT.	NOV.	DEC.	TOTAL	HEAN
1951	+1.0	-1.0	-1.0	-1.0	-1,0	.=1 , N	-1,0	-1,0	-1.0	-1. n	• .	-1.0	· · · · · ·	0.
1950	-1.0	-1.0	-1 0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0.	<u>-1.0</u>	-1.0		
1953	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1,0	-1.0	-1.0	-1.0	-1.0	0.	0.
1954	-1.0	-1.0	-1.0	-1 . n	-1.0	-1.0	-1.0	-1.0	1.0	~1. 0	-1.0	-1.0		0
1955	23.8	18.6	14.3	25,2	18.1	23.5	70,7	28.6	22.3	30.6	36,5	10.0	354.2	
1956	28,1	26,4	15.9	15.4	22.2	9.6	32.0	15.5	6.6	14.4.	11.3	30.9		20.7
1957	17,3	36.5	6 9	24.4	10.7	2,7	44.2	14.9	2 0	0.7	2.4	18.7	232.0	
1958	11.6	16.3	72.5	26.5	15.6		3/.3	21.7	2.1		23.0	33.5		
1959	50.7		52.9			8 B				<u>. 19.0</u> .			237.9	
		32.0		37,5	31.0	21.1	17.0	2,0	1.5	2.4	8.6	37.0	297.3	24.8
17.60	25.9	39,0	42,4	35.3	62.7	9.9	15,5	21.0	0.0	4.6	13,2	9.5	292.7.	24 . 4
1961	55.5	20.4	20.1	28,5	19,4	7,5	6,1	-1,8	0,5	0.2	0,3	0.3	127.8	10.6
1962.	. 17,9	27,4	23.0	30,7	32.1	9,9	4,4,	3.8	0.4	3.6	16.5	11.3	181.5	15.1
1963	65,0	41,3	68,9	37,5	6.2	1.9	U . 4	0,2	0.1	-1.0	-1.0	-1.0	221,5	24.6
1964	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0.	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	0	n.
1965	-1.0	-1.0	-1.0	9.0	1.8	0.1	0.3	0,1	-1.0	-1.0	-1.0	17.7	25.0	4,2
1966	18,4	-1.0	20.3	20.3	-1.0	1.8	i	-1.0	-1.0	18.2	-1.0	-1.0	80.3	15.4
1967	-1.0	-1.0	-1.0	-1,0	-1.0	1.0	-1.0	-1,0	-1.0	-1.0	-1.0	-1.0		
1966	2.3	-1.0	1 0	-1.0	-1.0	-1 0	-1.0	-1.0		-1.0			D.,	D.
1969	-1.0	-1.0	29.4						-1.0		-1.0	-1.0	5.3	2.3
1970	28.0		37.7	40.4	10,9	1.3	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	82.5	50.6
1770	-0,0	-1,0	0/./	51,5	26.9	26.7	~1,0	6.9	6.9	-1.0	-1.0	-1.0	216.6	30.9
		0 D								_			4 + 14 <u>-</u>	

TOTAL 318,1 258,9 404,3 376,7 289,6 134,6 239,1 116,5 54,8 90,7 111,8 183,9 2579,2 20,0

(11) Discharge at Parit Raja

YEAR	JAN.	FEB,	HAR.	APR,	MAT	JUNE	JULY	AUG.	SEP.	OCT.	NOT.	DEC.	TOTAL	MRAN
1966	11.9	31.9	44.0	45.2	11,5	3.5	-	-		-		_	148.0	24.7
1967	. .	-	-	-	-	-	-	-	-	-	-	3.7	3.7	3.7
1968	11.3	23.8	44.0	32.5	64.7	47.9	67.3	20.7	6.9	15.1		36.6	370.8	33.7
1969	26.7	37.2	48.7	5.8	3.9	17.5	-	-	-		2.3	7.1	149.2	18,7
TOTAL	49.9	92.9	136.7	83.5	80,1	68,9	67.3	20,7	6.9	15,1	2.3	47.4	671.7	
MEAN	16.6	31.0	45.6	27.8	26.7	23.0	67.3	20.7	6.9	15.1	2.3	15.8		25.8

_____ (12) Discharge at Tulungagung

YEAR	JAN	FEB.	MAR .	APR+	MAY	ๆแหะ	AIILY	AUG+	SEP.	nct.	NOV •	nec •	TOTAL	HEAN
1951	65,2	83,6	93.6 93.3	21.4	10.0	53.3 10.5	10,0	11.7	9,5 1.7	4,4 15.9	2,6 82./	27.2	392.4	
1952	92,3	63.7	64.9	48,7	73.8	16.4	4,5	1.8	0,9	0,4	4.4	66.9 14.7	325.7	27.1
1954	41.5	48,8	38.1	41.9	57.0	43,6	14.3	25.3	11.4	. 6.1	53,9	66.6	454.1	37.8
1955	49.0	38.1	30.5	46.6	34,8	58,4	AU, S	66.0	25'8	38.7	77.6	27.6	555.5	46,3
1956	44,9 21,9	54,3 49,1	30.3 71.6	14.1 4n.2	21.6 8.1	22.0 2.7	50,0 41,7	21.8	8.5 3.3	12.7	10.6	45.9 19.9	284.7	27.0. 23.7
1958	14,1	44,0	58 4	53,3	27.0	20.6	34,3	25.1	8.2	16.7	32.4	47.2	361.3	
1950	78,4	71.0	75.0	34.2	52.6	51.1	28,4	5,3	2,7	1.9	7.6	40.5	449.6	37.5
1960	62.8 40.4	66.9 41.3	69.0 44.4	40.2 42.9	48,9 35,1	31.n 5.8	1/,6	26,8	8.5 0.5	0.1.	15,3 0.5	10.7	219.4	37.0
1961 1962	26.0	33,5	32.2	103,0	25,8	11.5	¥,0	5,1	0,7	-1 n	27,4	44.4	318.6	18.3
1963	56,5	55,8	62.5	36.2	3.7	1.8	U,5	n.4	ս . Վ	0.2	0.1	-1.0	218.0	19.8
1964	7.5 -	6,2	35.6	21,0 15,4	35,8	21.9	<u>v. 0</u>	0,6 0,3	-1.0	-1.n	18.6	13.1	210.4	_17.5
1966	18.2	-1.0 -1.0	23.1	17.2	-1.0	2.0	U. 8	0,5	0.9	7.0	9.7	8.4	97.2	10.8 10.9
1967	17,8	-1.0	11.2	16.3	5.4	0.9	U,6	0,5	0.4	0.3	1.6	8.2	68.2	5.7
1966	9,3	9,1	20.2	26,9	26,3	22.5	.34,	12,5	3,0	15,4	16.3	16.7 .	215.2	. 17.9
1969	21,4 15,1	10.0 24.4	14.5	25,7 19,5	22.4	3 n 15 7	1,1 4,2	0.6	0.7 2.2	0.7 4.5	6.0 22.2	9,3 24.3	97.5 173.2	14.4
	75. 7	0.7.0	0-4 E	740.0	E E	774 -		- t- '0						

TOTAL 751,3 817,2 900,5 710,2 551,4 371,3 341,4 231,9 104,1 109,0 390,9 531,7 <u>5876,9 25,3</u> HEAN 37.6 48.1 45.3 35.5 29.0 18.6 1/.1 11.6 5.5 9.4 19.5 28.0

(13) Discharge at Pakundjen

EAR	"'nať",	FEH.	HAH.	APR.	MAY	JUNE	JULY	AÜĞ.	SEP.	nct.	HOV.	DEC	TOTAL	HEAN
951	59,9	84,8	57.3	36,4	18.0	47.8	22,4	24,3	20,2	10,5	6,3	41.0	433.0	36.
952	66.9	122.6	92.0	54.1	25.0	16.7	2.6	<u> 3.8</u>	<u> </u>	13.5	95.3		602.5	ئىمد_
953	46,9	81.5	95,3	55,1	74.2	33,3	10,1	6.9	ه, د	5.4	6,7	18.9	439.9	36.
954	42.2	40.4	42.9	46.8	54.1	58.3	30.3	23.0	1.4.0	8.1	67.6	90.6	528 3.	44.
55	71.3	57.6	48 3	77.4	54.9	55.7	170,9	76.3	0 2	59.4	130.7	46.6	002.0	75.
956	64.8	76,3	53.4	30,3	44.4	41.5	59.8	45.5	17 0	29.6	29.4	90.2	584.2	48
957	55.8	84.1	117.0	4.94	19.2	9.3	122.6	38.2	12.5	8.5	11.1	41.5	593.4	49
958	42.1	32.3	12.4	29.4	47.9	-1.0	34.3	72.4	79.2	79.0	37.7	27.4	494.6	
999	-1.0	-1.0	-1.0	· -1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1,0	-1,0	-1.0	0.	n,
) ån	90 6	89.4	105.2	59.7	108.5	42.7	24,6	5,2	1.1	1.6	21.9	16 B	506.4	47.
61	63.6	52,7	59.7	55.7	43,2	9.9	5,7	4,3	4 5	4,4	4,5	17.6	321.0	26
962	42.9	55.7	46.9	63.9	42.7	23,3	17.0	12.2	5.2	15.8	39.6	68.2	433.6	36.
763	92.4	75.7	110.3	61.7	10.6	7.4	4,7	3,4	4.1	3.8	4.7	5.0	385.2	32
264	5.7	3.7	17.1	84,3	27.6	23.5	10.3	23.9	58.9	37.8	46.9	20.4	372.6	31
905	68,5	163	49.5	26,1	6.9	5.2	3,4	2.7	2.0	2.7	4.0	-1.0	337.4	-30,
966	49.5	-1.0	63.7	67.0	-1.0	13.5	6.7	3.2	4.4	13.5	23.3	56.0	301.1	30,
967	40.9	7.5	24 8	27.4	15,4	5 3	ა 7	3,7	3 1	2,3	3.7	13.5	151.8	12
968	24.3	25.7	56.6	44.9	61.0	20.0	R4 b	35.2	13 0	37.2	34.8	60.9	528.4	44
969	21.6	37.2	54.4	54.9	14.2	13.9	50.4	5,6	4.5	6.8	17.6	27.6	344.7	28
970	39.6	47.4	37,0		45,0	29.5	10.0	8.2	12.4	19.5	39. 4	33.0	_ 371.7	31.

TOTAL 1039, 9 1140, 0 1145, 2 992, 9 724, 0 486, 8 697, 2 399, 0 318, 5 360, 5 626, 5 761, 9 8692, 4 38, 8

(14) Discharge at Sceloredjo Dam Site -

YEAH	JAN.	FEB,	MAH.	APR.	MAY	JUNE	JULY	AUG.	SEP.	nct.	NOV.	ber.	TOTAL	HEAL
1951	12,3	17.2	12.6	9, R 11.5	6,8 9,1	8.0 7.3	0,4	4,4	5.1	4.7 5.3	6.5	10.9	103.9	H.7
1953	11.6	13,9 14,8	15.9	17.9	11.5 12.3	7,7 7,8	0,5	4.6	4.6 5.8	3.3	7.2	11.5	111.2 135.0	9,3
1995	14.3	16.3	15.4	13.5	10.5	9 4 10 0	11,2	7.U 6.6	5 y 5 y	7.3 7.5	13.2	11.0	136.1	11.3
1958	9,8	17,4	27.5 11.4	14.2	11,0	8,8	10,0 8,5	H, S <u>6.D.</u>	0, n	5,4 5,4	10.0	11,9	146.3	17.7
1959 1960	19.9 13.7	33.1	25.£	14.0 20.6	11,7	9.6	y. U	7.8	5,4	4.7 6.3	5,7 7,9	12,3 7,3	149.1	12.4
1961 1962 1963	16.6	10.5 23.7 25.0	11.5 12.9 17.8	7.8 15.7 13.6	10,3 10,7 10,6	8.3 9.3 9.4	/,3 7,5 7,1	6.5 9.2 7.6	5,5 7. ₀ 6,7	7.7	5.7 10.3	5.8 13.6	98.6 146.2	12,2
1964 1965	15.7	7.5	10.5	10.0	8.8	6,6 6,8	4.7	- 3. ÿ	3.6	6.6 13.8 3.1	6,6 5,3 3,3	7,9 	148.3 <u>A7.0</u>	12.4
1966	6 5 14 4	17.2	15.0	8 3 7 7	6.1	6.2 4.8	5 U 4 S	4 6 3 8	4 2	4,4	5.7	7.6 18.9	100.4 81.0 100.4	8.4 6.7 9.4
1966: 1969	14.0	23,4	12.8	15.9 10.7	14,3	11.1	10.7	7.2 3.9	5.9	6.2	11.0 7.7	12.4 8.7	154.5	12.9
1970	11,5	10,5	10.1	17.7	10,9	8,6	6.7	4,5	<u> 5.0</u>	5.7	11.4	11.3	120.6	_10.0

TOTAL 282,8 341,8 314.3 246,0 200,9 163,3 146,8 119,8 105,8 119,0 170,7 213,3 2424,5 10,1

(15) Discharge at Widas

TEAR	JAN.	PEB.	MAR.	APR.	MAY	JUNK	JULT	AUG.	SEP.	OCT.	NOV.	DEC.	TOTAL	HEAN
1962.	j., 5	₹	sala e	·	. ,,•• ,		-		-		.148.	3.2	5.0.	2.5
1963	7.4	6.5	9.3	6.1	1.8	1.2	0.7	0.6	0.6	0.5	0.5	2.7	37.9	3.2
1964	4.5	2.3	3.1	3.1	1.3	0,6	0.4	0.3	0.3	1.7	2.0	1.7	21.3	1.8
1965	6,0	7.6	2,2	2,0	0,5	0,4	0,3	Q.5	0,2	0,3			20.0	2,0
TOTAL	17.9	16,4	14.6	11.2	3.6	2.2	1,4	1,4	- 1.1	2.5	4.3	7.6	84.2	
HEAN	6.0	5.5	4.9	3.7	1.2	0.7	0.5	0.5	0.4	0.8	1,4	2.5		2.3

YEAR	JAN	 I	re _B	MAR.	APR.	YAH	ากห์⊨	JULY	AUG.	SEP.	oCT.	NOV.	bec.	TOTAL	HBAN
1951	83,		128,8	111.7	78,9	43.9	66,2 28,3	30,5	6.0	2,7	1.1	0,4	53.3 51.6	585.7	48.8
1953	38 79	6	62.8	65.7	03.7 74.1	108.4	47.8 43.2	24.2	1.5	U.9	1.0	7.4	29.2 123.0 .	491.2	40 . P.
1954: 1955	97 66	8	67.9	45.2	89.9 34.1	69.2 34.8	47.0	71.U 26.9	35.9	25.0	0.5	68.3	10.8 59.5	662.3 500.7	
1957	52 30	4	92.7 79.4	148.5	110 4	47.9 83.2	15.2 35.0	61,2 3,0	38,7	∪.7 1.0′	0.5	4,4	41 8 46 4	508.8 490.8	411.9
1959 1960	133	Ō	196.8	145.2	102.5	88.1 124.8	65.6	22,5	0 . B	υ,5 Β,5	0.5	7,9	86.8 12.0	700.0	70.4 58.5.
1961 1962	48 92		87,4	74.5	89.9 79.9	45.0 48.1	15.1 22.8	10,7	0.9	0.4	n.3	18,5	2,4 40,1	503.2	30.0
1963 1964	105	7	120,4 12,8	149,1	36.3 36.5	38,3 16,3	30.6 47.0	13.5 20.7	7,4	6,3. <u>9,5</u>	5.5 87.4	51.0	14.4 23.1	595,3 413-1	49.6 33-1
1965	41 26	3	69.5	74.9	26.2 33.8	17,7	12.3	17.4	1,6	2.1	2.7 4.5	2,8 13.1	26,9 38,8	245.9 309.5 274.3	20.5 25.8 22.9
1967 1968	39	6	55,4 56,0		49.2	21.2	24,4	38,5	20,4	1.8 7.2	3,8 16,9	12,6	31,2 42,3	445.9	37.2
1969 1970	45 34		40.5 65.8	46,5 57,7	38.0 20,8	14,9 27,9	17.2	2,5	2.7	2.4 -1.0	2.0 -1.0	4.4 -1.0	10.9 -1.0	237.8	
			.					4.00 3	202 4	U . 3	155 7	343 9	744 5	D750 D	44 3

TOTAL 1516 8 1725 3 1719 1 1589 7 976 1 644 7 409 7 203 8 80 3 155 7 343 2 744 5 9752 9 41 3 HEAN 65 8 86 2 80 0 69 5 48 8 54 2 20 5 10 2 4 5 8 2 18 1 30 2

YEAR	J ^A N,	FER,	MAR.	APR.	YAH	յում⊨	JHLY	AUG,	Stp.	nc,	NOV.	nec	TOTAL HE	AN
1951	143.0 150.0	190,0 184,0	128.0 223.0	94.9 67.5	55.5 38.2	57.9 40.2	17,1 7.5	12,1	5,5 5.1	3.n 17.5	2,1 99,7	77.2 108.0	•	, o
 1953 1954 1955	93.2 179.0 141.0	98,9 172,0 145,0	106.0 127.0 135.0	126.0 133.0 125.0	159,0 128,0 103,0	56,9 96,1 51,7 96,9	33,2 4,9 100,0 164,0	3,8 44,4 65,9 44,9	1.4 15.0 3.5 13.5	1,5 12,9 4,2 51,4	11.3 112.0 97.8 29.9	62,9 185,0 30,9 85,3	1209.3 10	6.6
 1958	111,0 110,0 75,8	145,0 144,0 151,7	100,0 -1.0 139,5	73,6 117,0 148,6 126,8	80,9 60,9 98,2 128,4	26.3	70 b 16 y	52,3 5,7 9,1	4,1 3,8 7,3	2.4 4.2 6.7	12.0 2.6 25.4	81.1 86.9	689.1 6: 775.6 6	2 . h
 1960	215.0 155.3 03.4 146.5	714,4 1/8,2 153,1 152,8	200.0 192.0 98.7 102.5	17H,6 d7,2	145,7 66,5 74.9	∀1,9 80,3 22,6 31,6	33 8 5 9 18 4	7,0 4,3 6,4	5, y 3, 6 3, 7	5.n 2.4 6.5	20.8 5.4 28.3	33.2 38.6 76.6	1076.4 8	9,7 5,6
.1962 .1963 .1964 :	141,1 43,2	169.2	219.8	120.6	52.6 42.2	31.5 05.2	11,2	10.1 14.0	9,3	7.4 119.7	8.7 73.2	38.9 37.3	826.8 6 483.1 5	8.0 6.8
1965 1966 1967	62.9 46.8 102.7 75.2	127,6 106,0 99,9 103,5	74.1 130.2 ns.1 115.7	48,2 59,2 81,4 90,3	23,9 36,5 36,7 74,2	23.9 29.0 18.0 44.7	7,9 4,4 11,2 6/,0	9.1 2.3 7.4 39.4	6.7 3.0 4.0 23.2	5.4 5.4 41.1	7.5 26.5 5.7 31.8	44.9 70.0 76.5 68.4	526.3 4. 513.2 4	7.0 3.9 2.8 6.1
 1968 1969 1970	νο.7 61.ύ	87.5 112.8	75.8 136.1	64 F 50 0	31.2 42.5	36.6 30.3	y 6	0.5 10.2	5,5 ⊸1,∩	6 4 -1 n	10.3 -1.0	29.4 -1.0		7.7

TOTAL 7235,9 2756,0 2465.3 1495.7 1514.2 1036.0 /12.3 352.3 134.1 314.7 616.5 1375.6 15538.6 60.1 4848 111.8 137.8 130.0 49.8 76.0 51.8 35.0 17.6 7.3 16.0 52.4 72.4

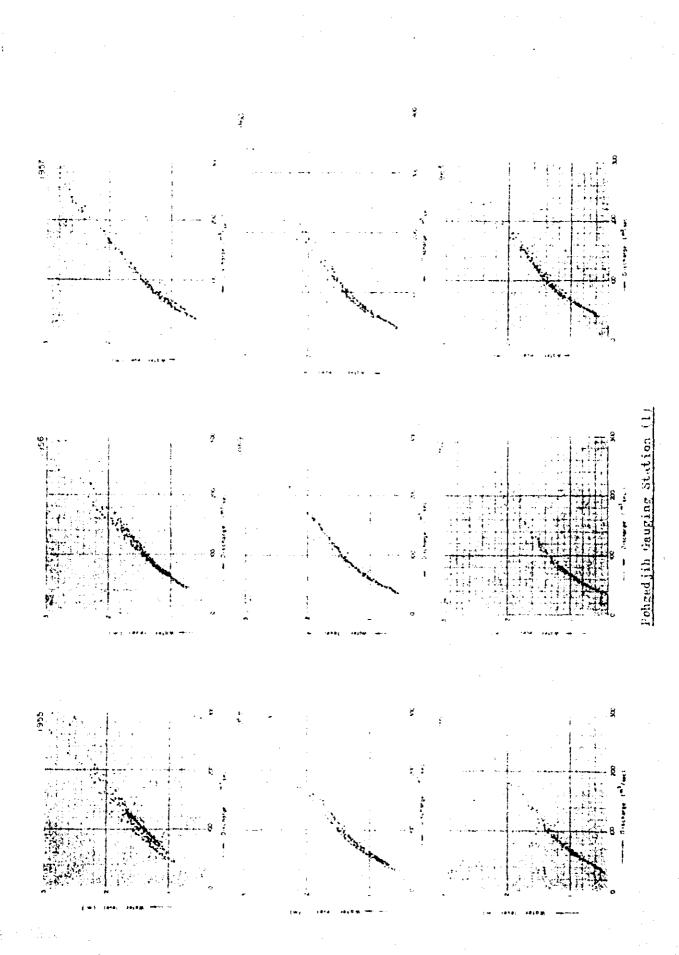
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1951	347.3	479,5 470,5	314.5	56.2 244.3	10.9	81.8 33.1	11,/	5.5 U.4	1.1	0.6 10.6	0.5	112.7	1407.3	
1953	237,0	257.2	322.6	404.6	512.5	34,4	21.0	1.7	1,5	9.0	4.9	103.0	1908.2	159.0
1954 - 1 ₉₅₅ -	361.5	345,3 390,0	262.2	395.7	306.9 207.2	128.7 210.2	21.5 441.0	206,4	120.5	154.4	357.6 484.0		2642'.7 3602.0	
1956 . 1957	397,6 220.8	303,5 390,9	226.4 651.9	58,9 152.7	86,0 76,4	213.4	255,1	60,3 37,6	25.7 1.7	51,4 0,7	2,5	294.0 191.4	1989.3	
1958	130.6 598.4	457.1	404.2	413.4	275.6	156.7	154.U 41.7	44.2	0,6	26.6	75.2 24.7		2483.6	184.5
1960 1961	361,5 300,4	409.0 292.4	444,7	326.5	353,6	17,9 7,6	39,0	1,7	0.8 0.5	0.8	86.7	93.3 28.2	2136.3	178.D.
1962 1963	317,0 394,4	313 5 502 7	253.7 599.9	382,4	175.2	33.6 18.3	14,1	4 9	0,0	4,2	75.2	261.5	1834.4.	152.9.
1964	57.6	100,1	334,5	169.9	139,9	124.1	0.4 0.7	0.2	0.5 0.5	213.9	0.3 107.5	69,4 72,8	1978.1	109.8
1965 1966	286.8	341.3 397.4	238,1	189,7 306,7	10.6 79.1	23.9 20.5	1,1	0.4	0,5 0.4	. 0,5 . 4.3	14.0	74.1 200.2	1167.8 1628.2	97.3 135.7.5
1967	329,9 114.6	289.4	267,9 451.9	277.A 412.7	74.8 364.7	3.2 256.2	271.0	0,3	0.3 23.9	0.3 35.4	0.3 95.5	72.9 299.7	1317,2 2733,2	109.8
1969 1970	273,4 172,4	368.A 312.7	352.7 400.2	372.8 268.0	58.3 237.3	46.5	υ.5 Υ.υ	0.6	0.4	0,5	47.1	30.7	1556.1	129.8

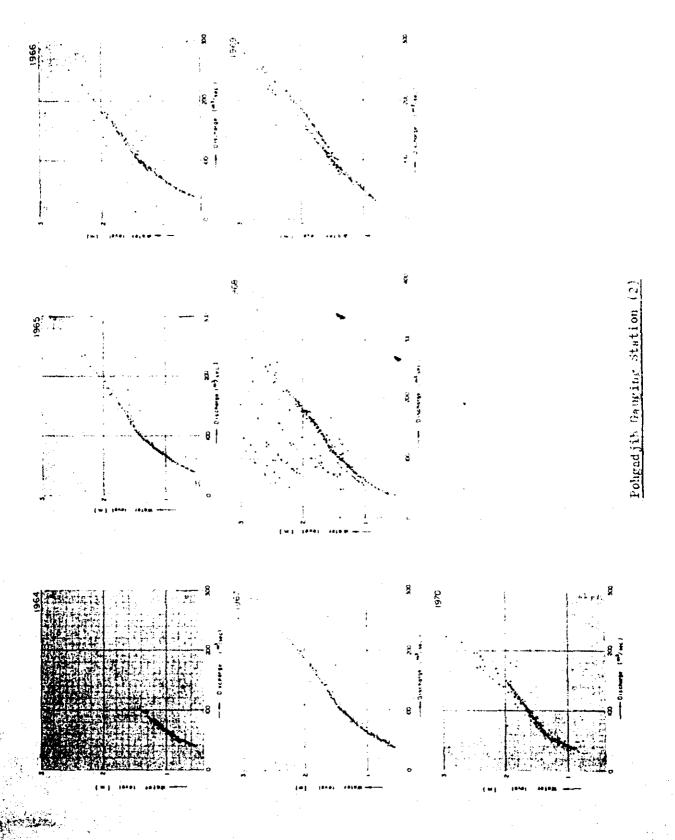
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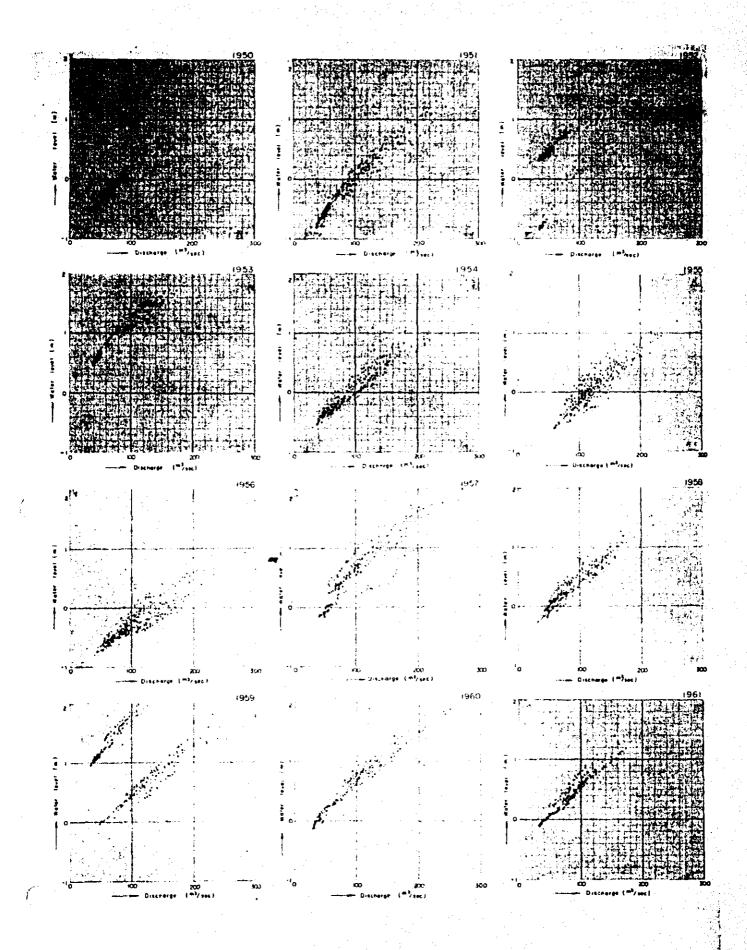
5. Correlation of Daily Water Level and Discharge

The presented herein is the relationship between the water level and the discharge at seven discharge gauges obtained from the records during the 1951 - 1970 period. The gauges are Pohgadjih, Kaulon, Pakel, Djeli, Djombiru, Kertosono and Djahon.

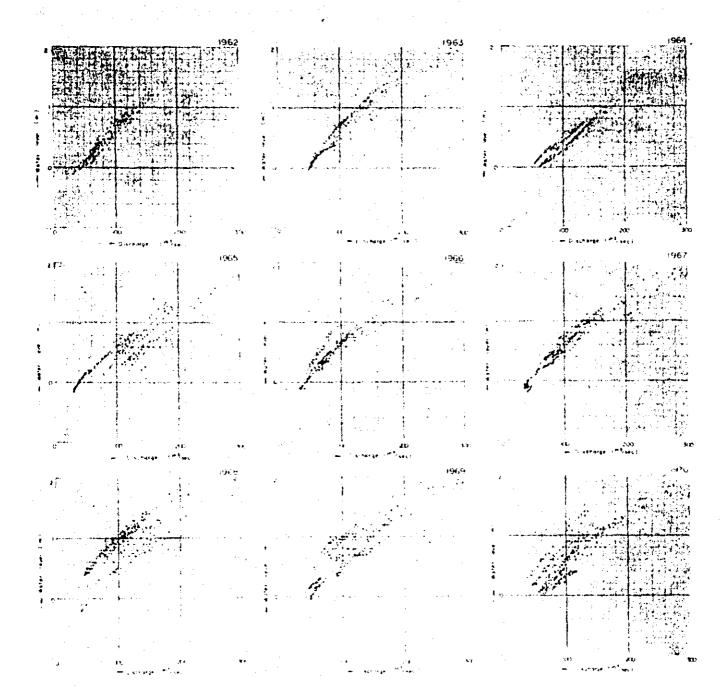


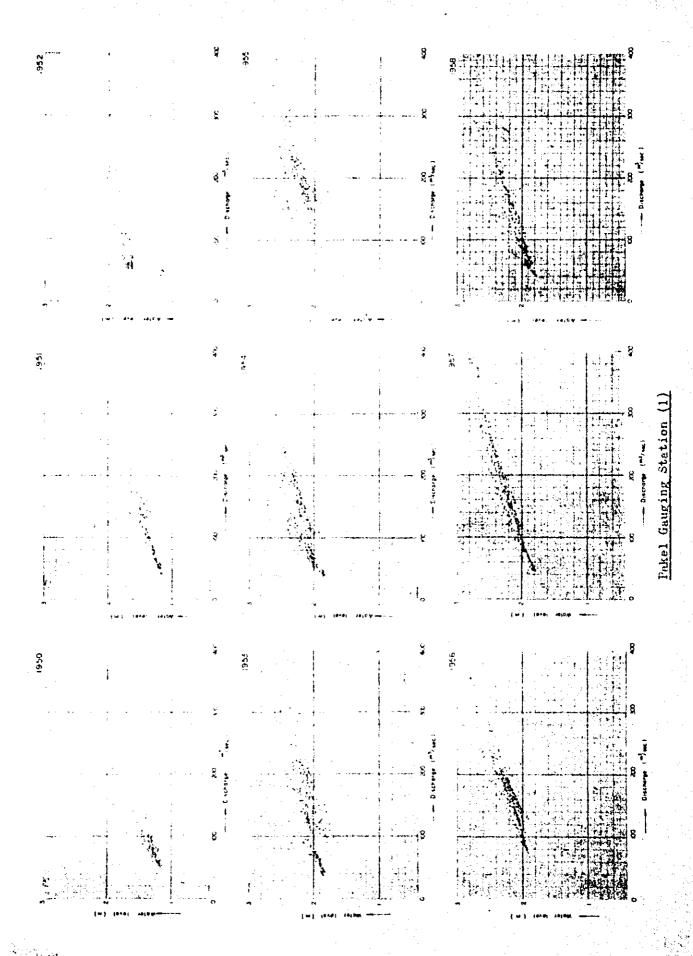
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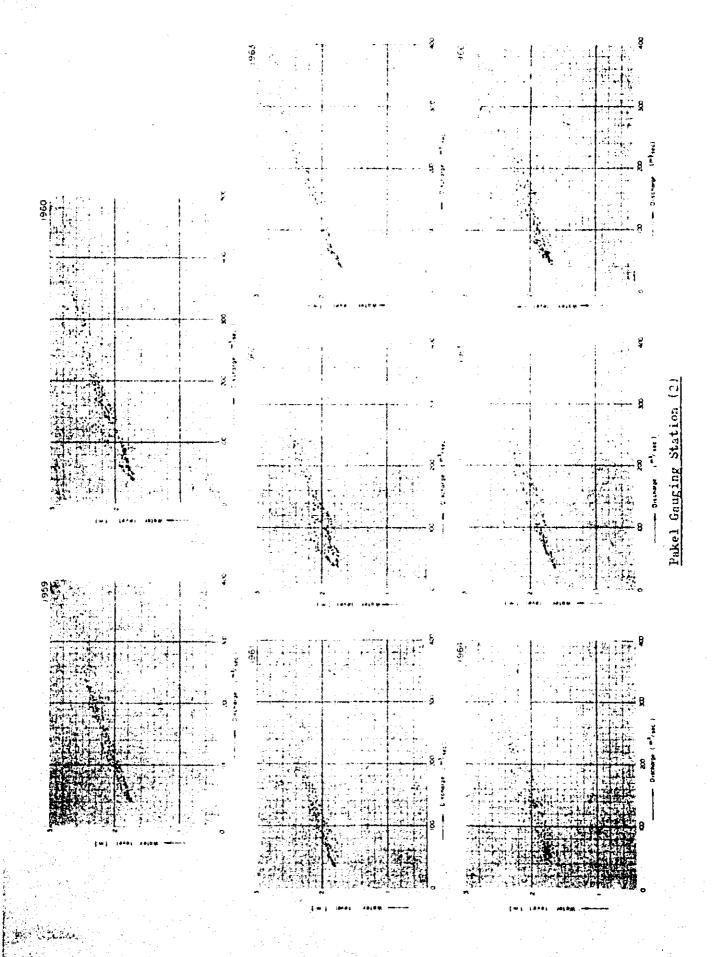


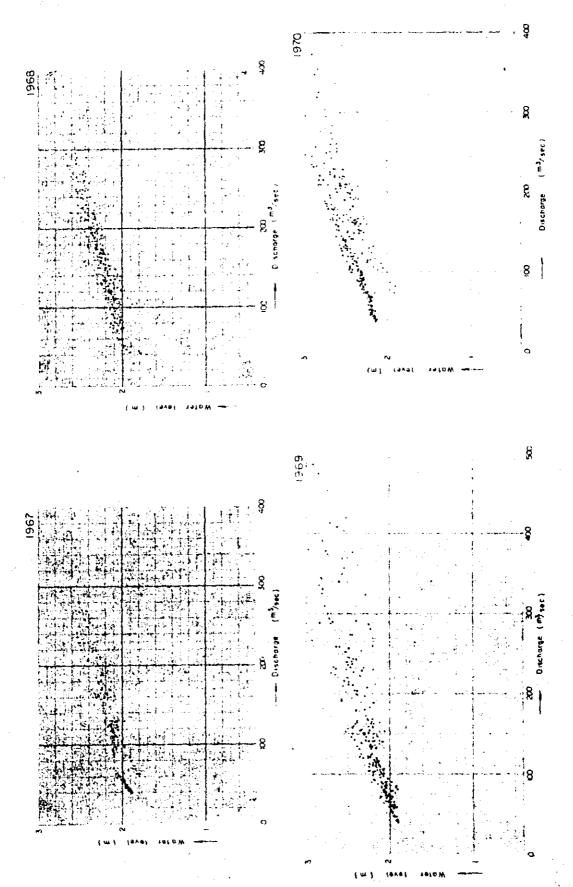


Kaulon Gauging Station (1)

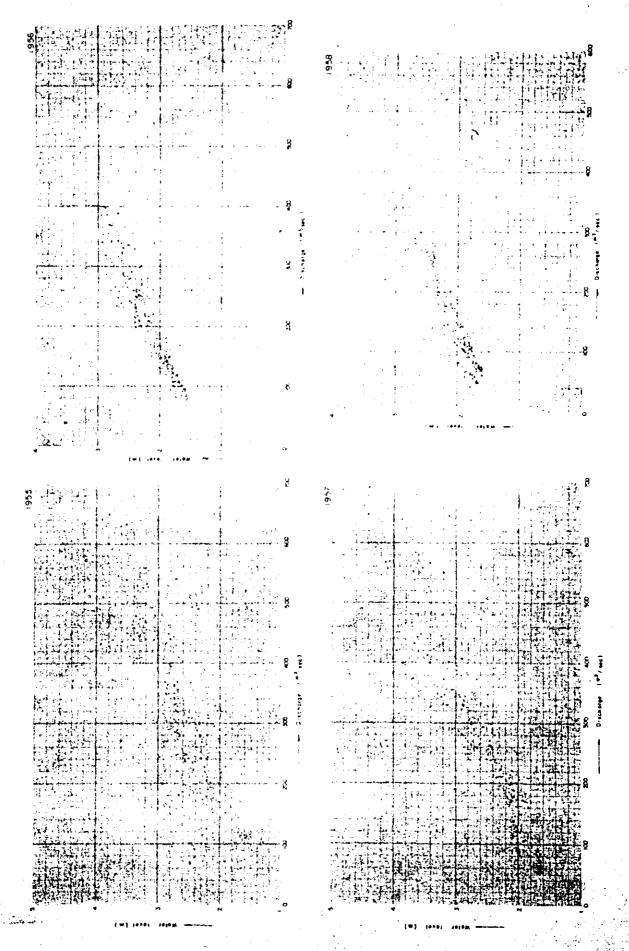


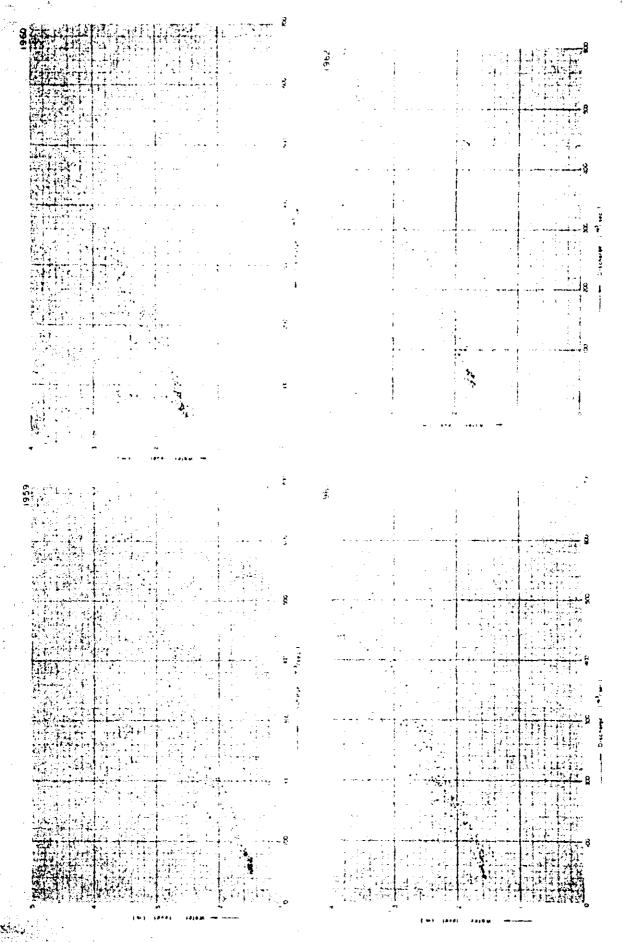


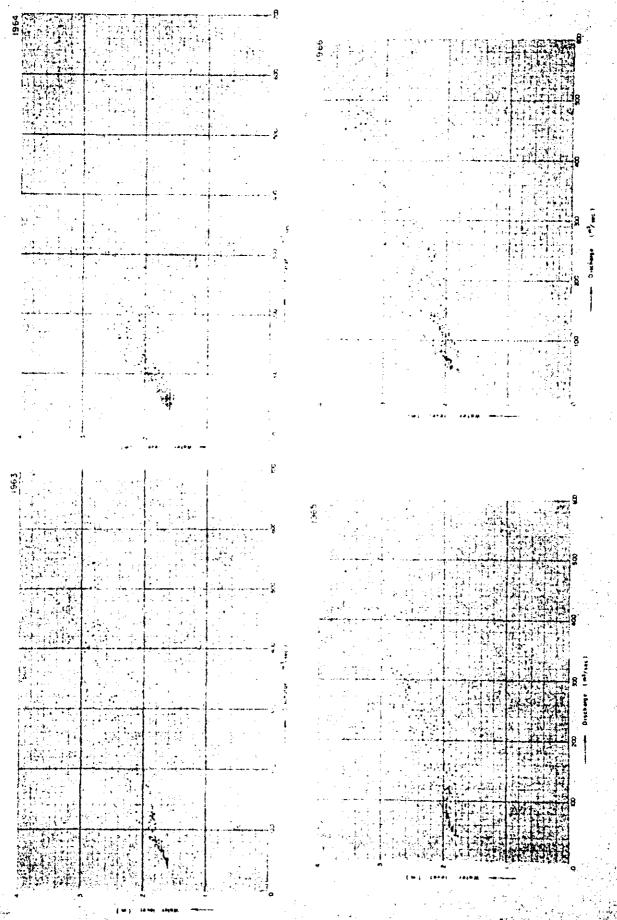


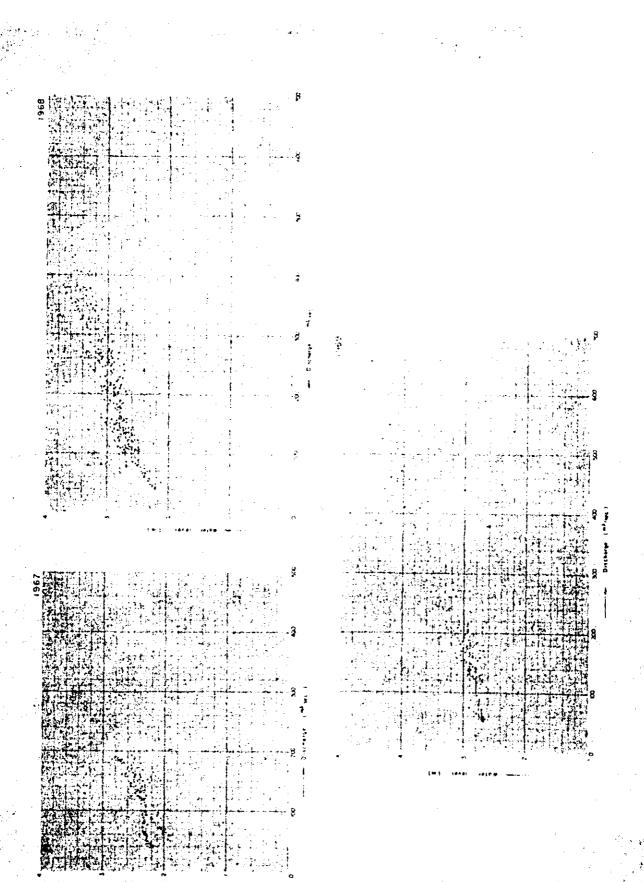


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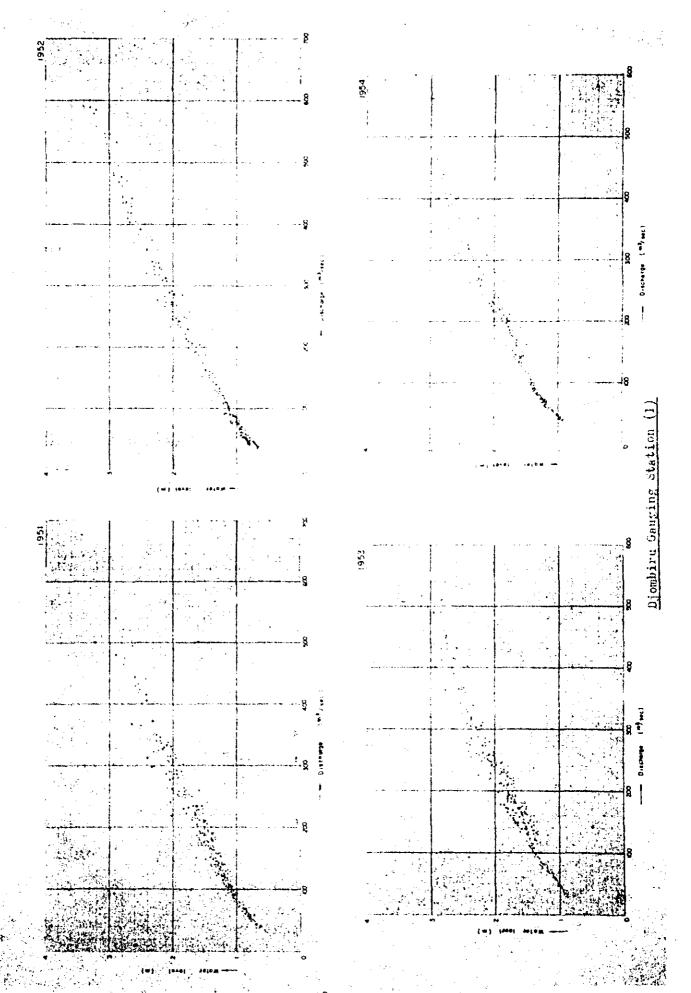


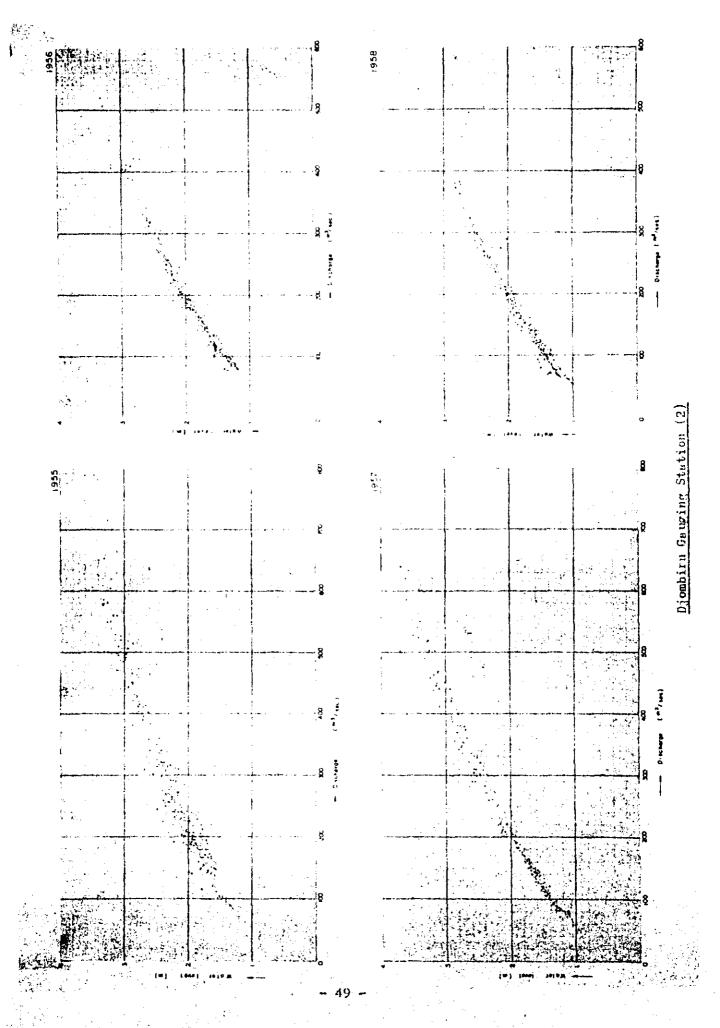


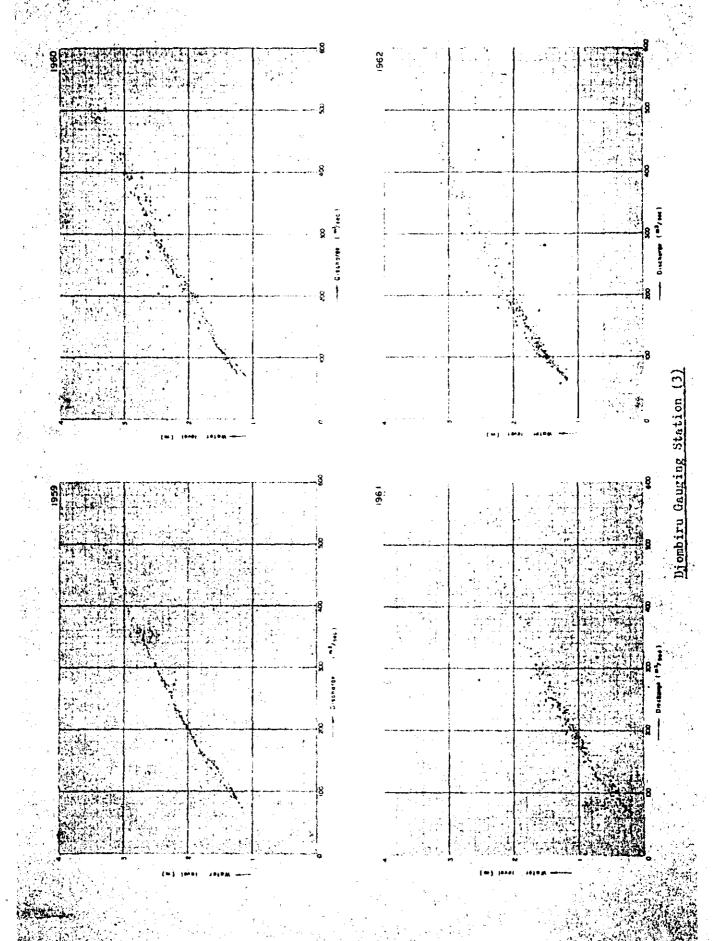


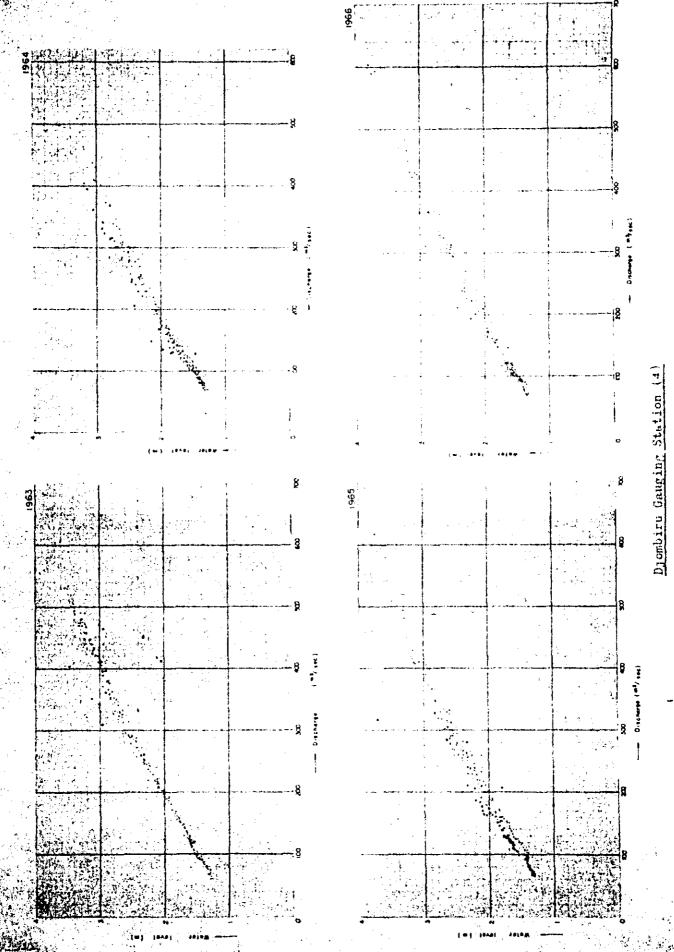


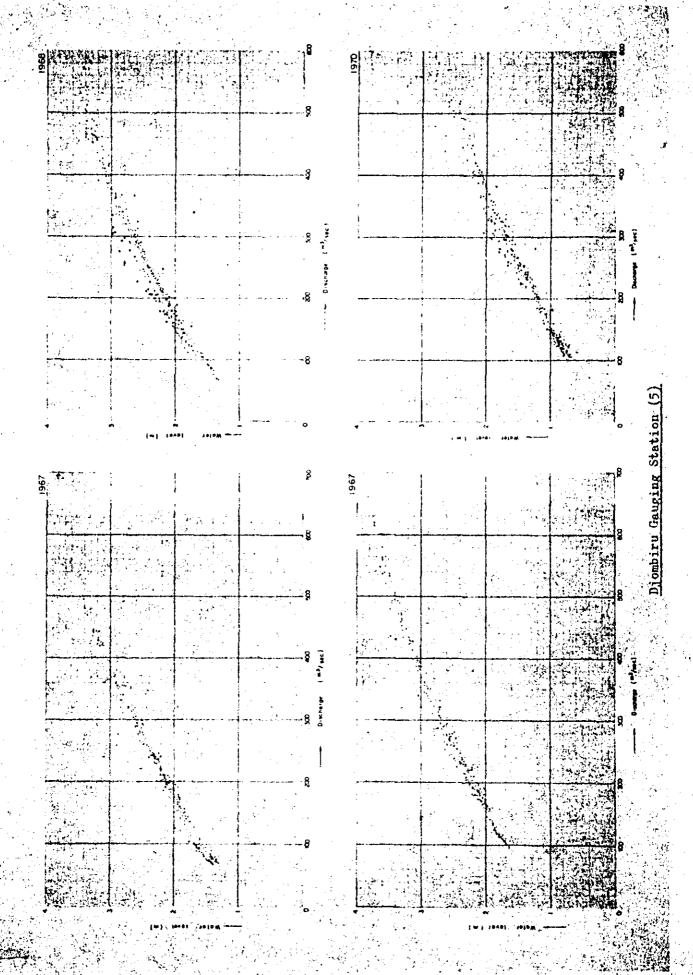
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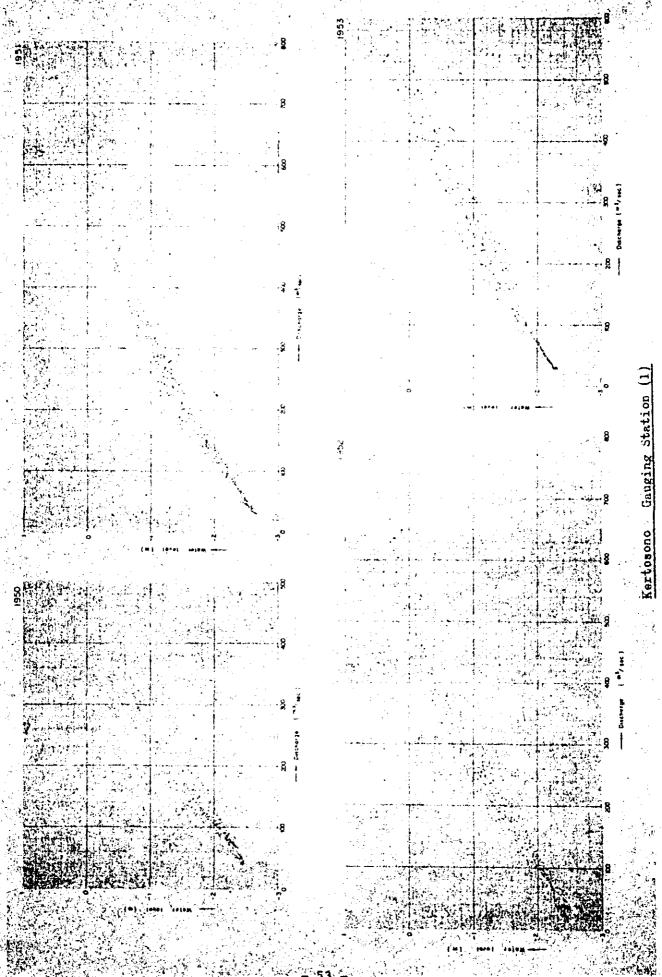


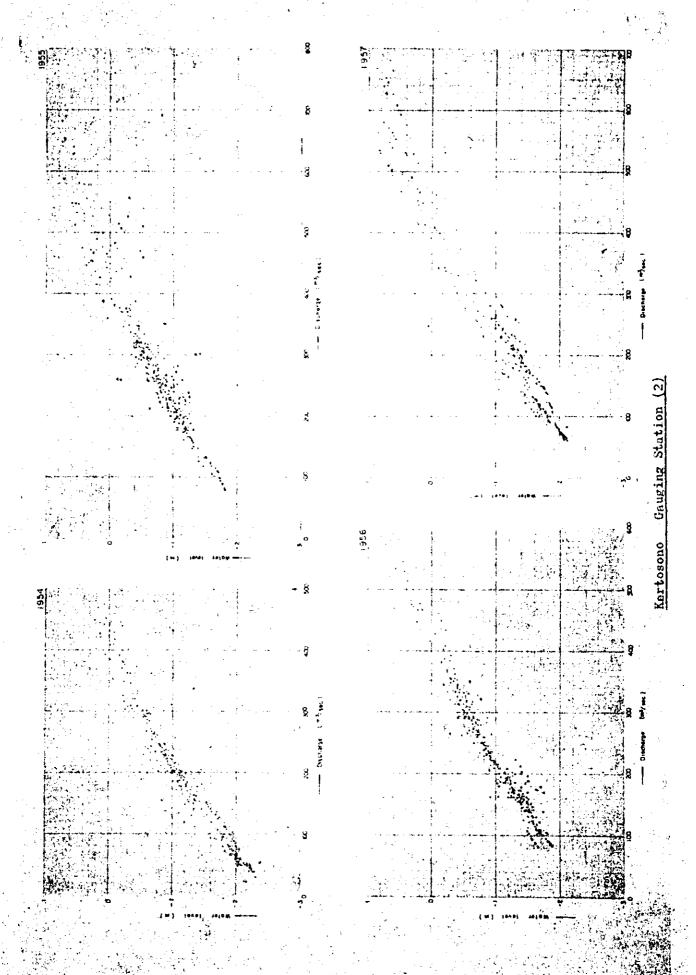


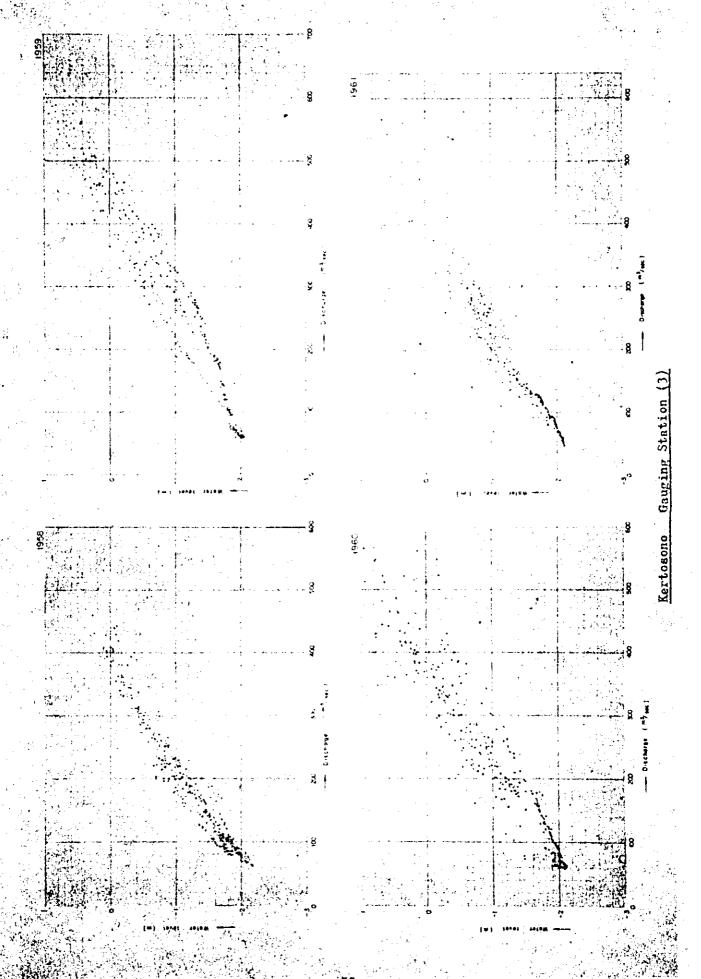


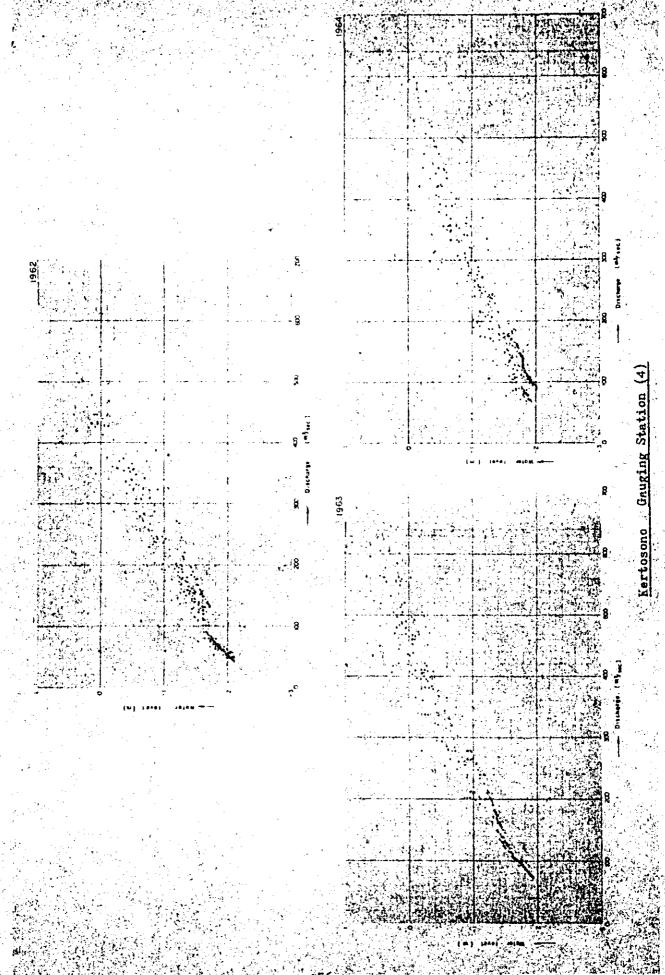


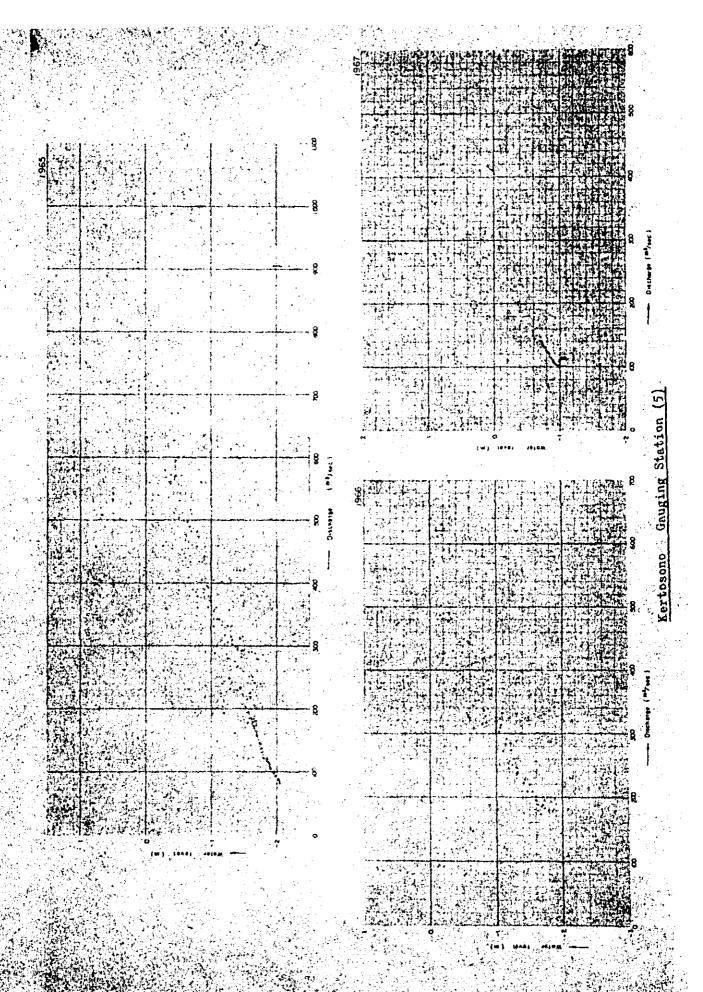




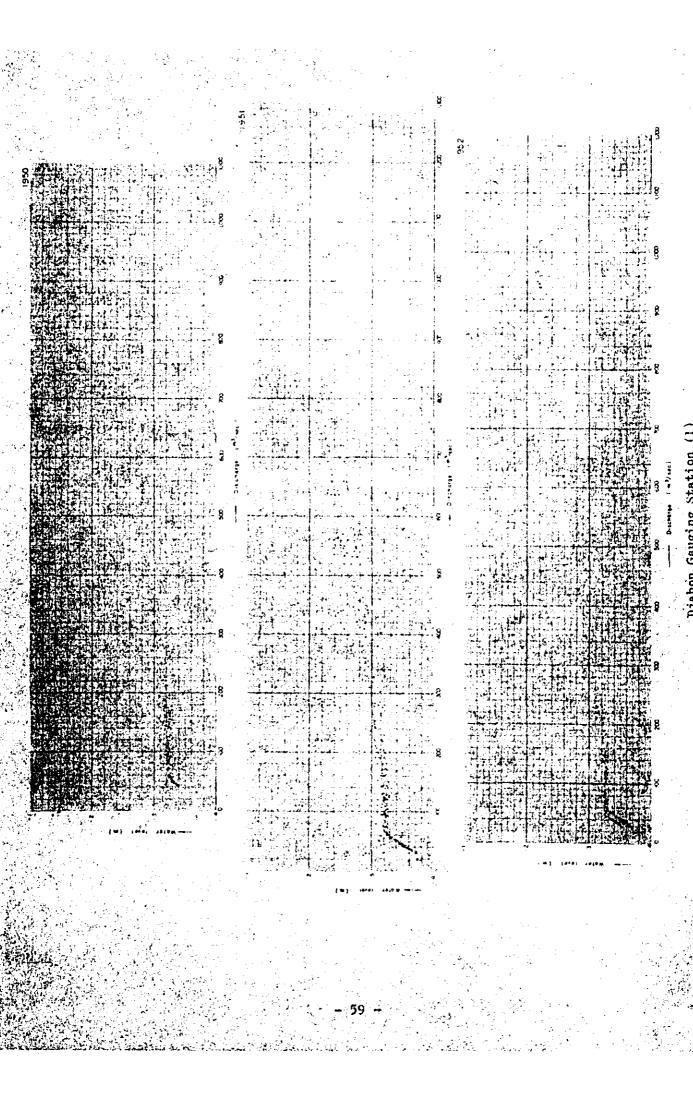




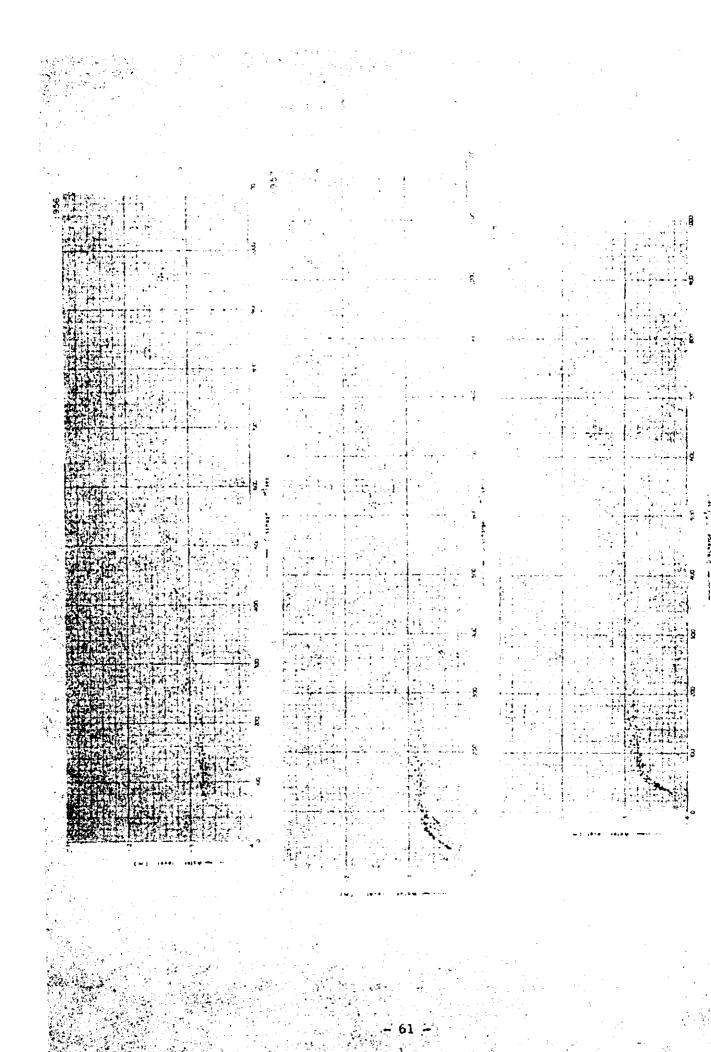


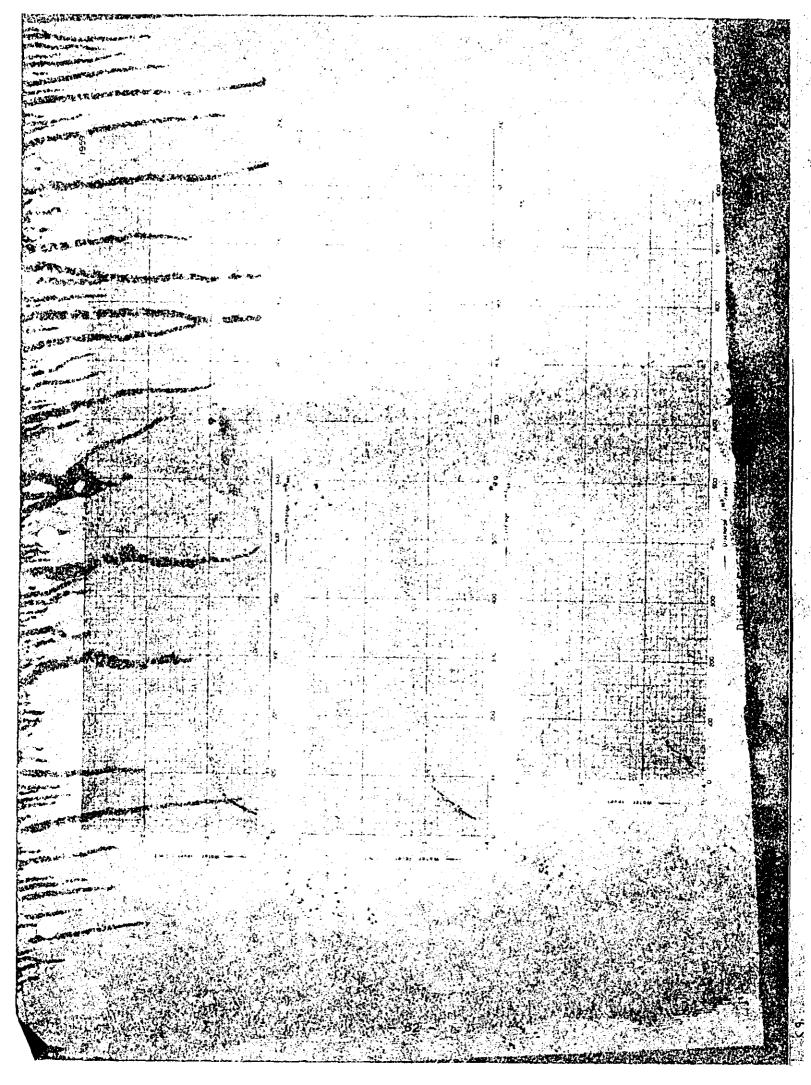


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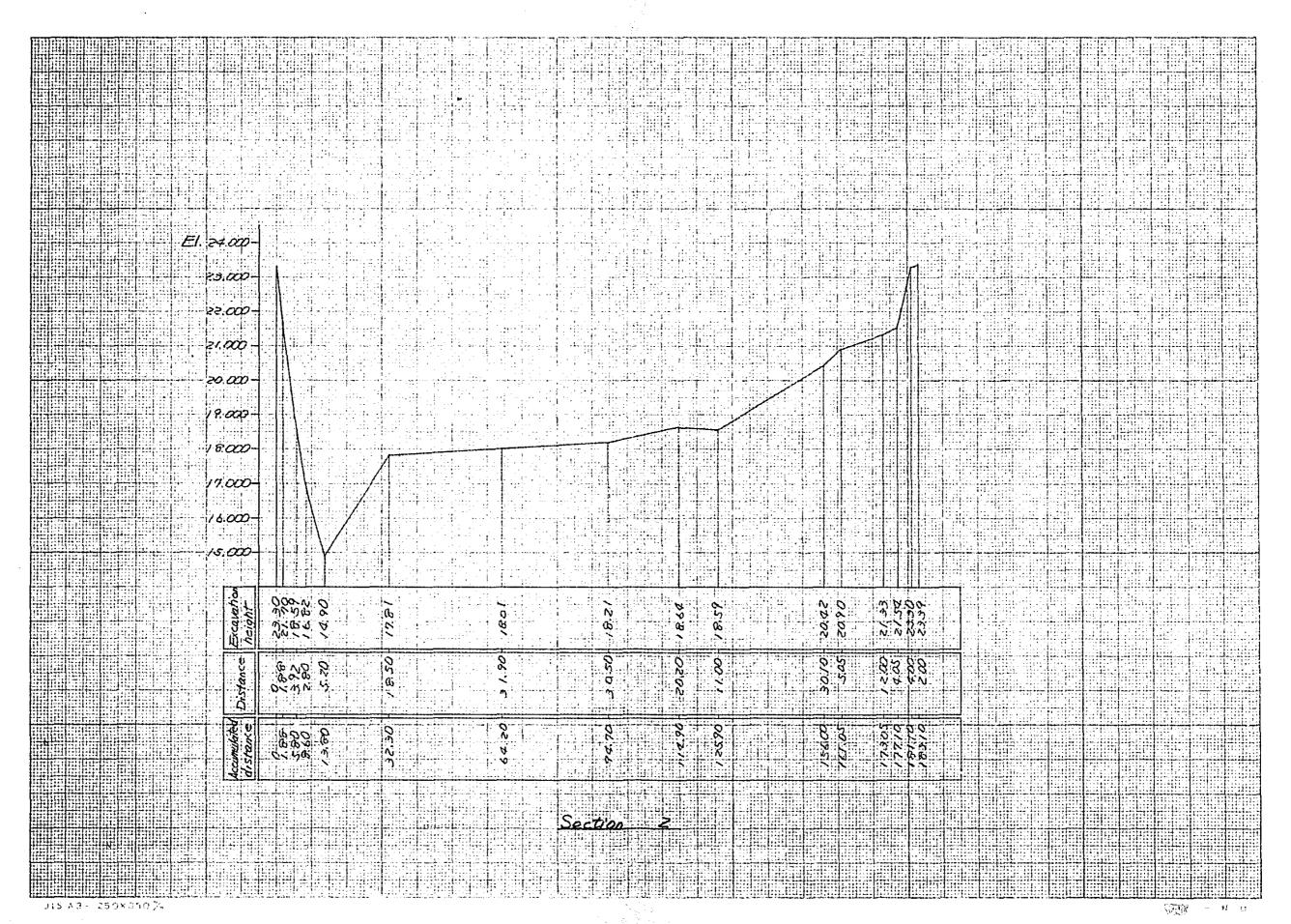
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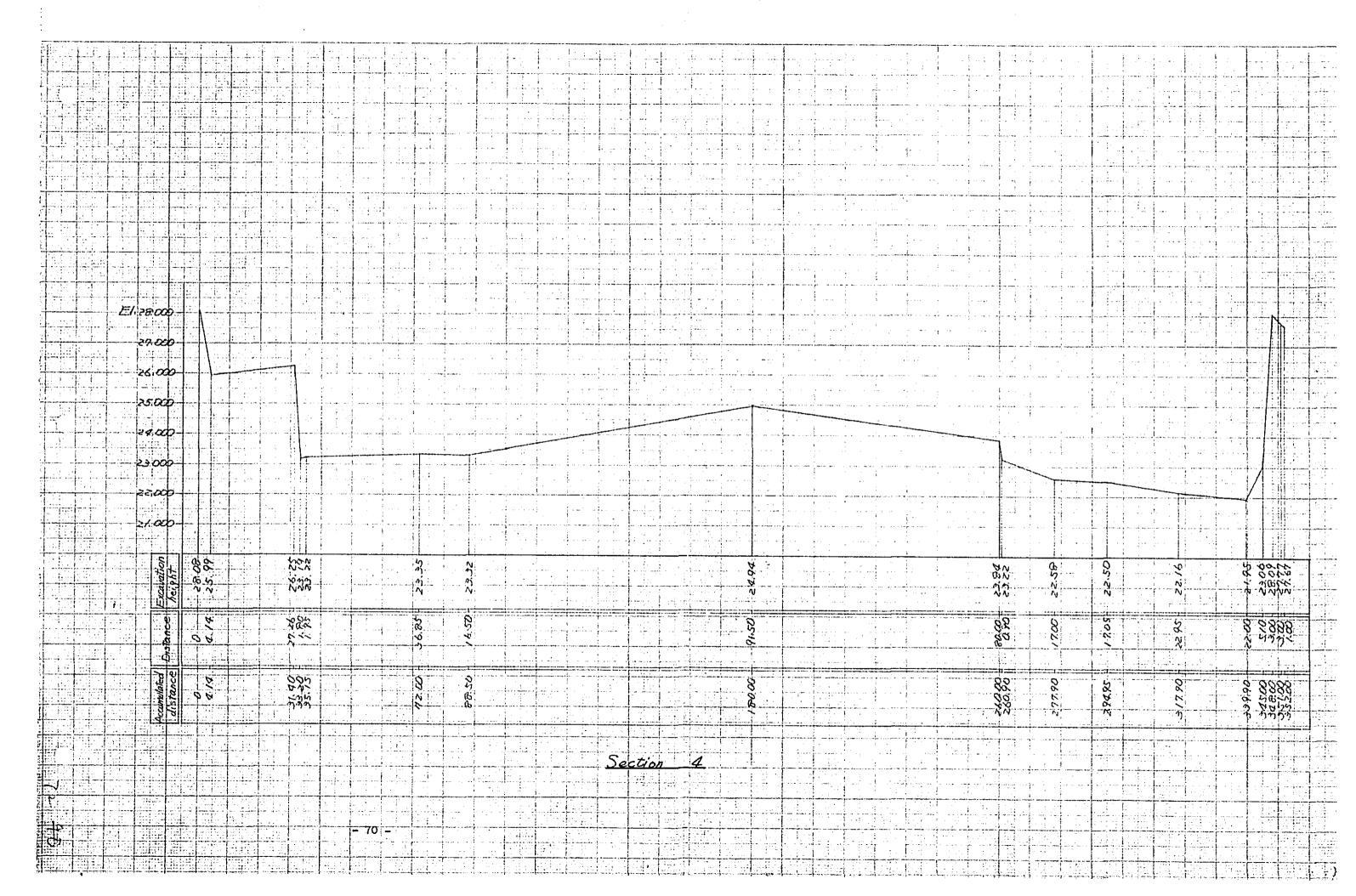
6. River Cross Section of Brantus River

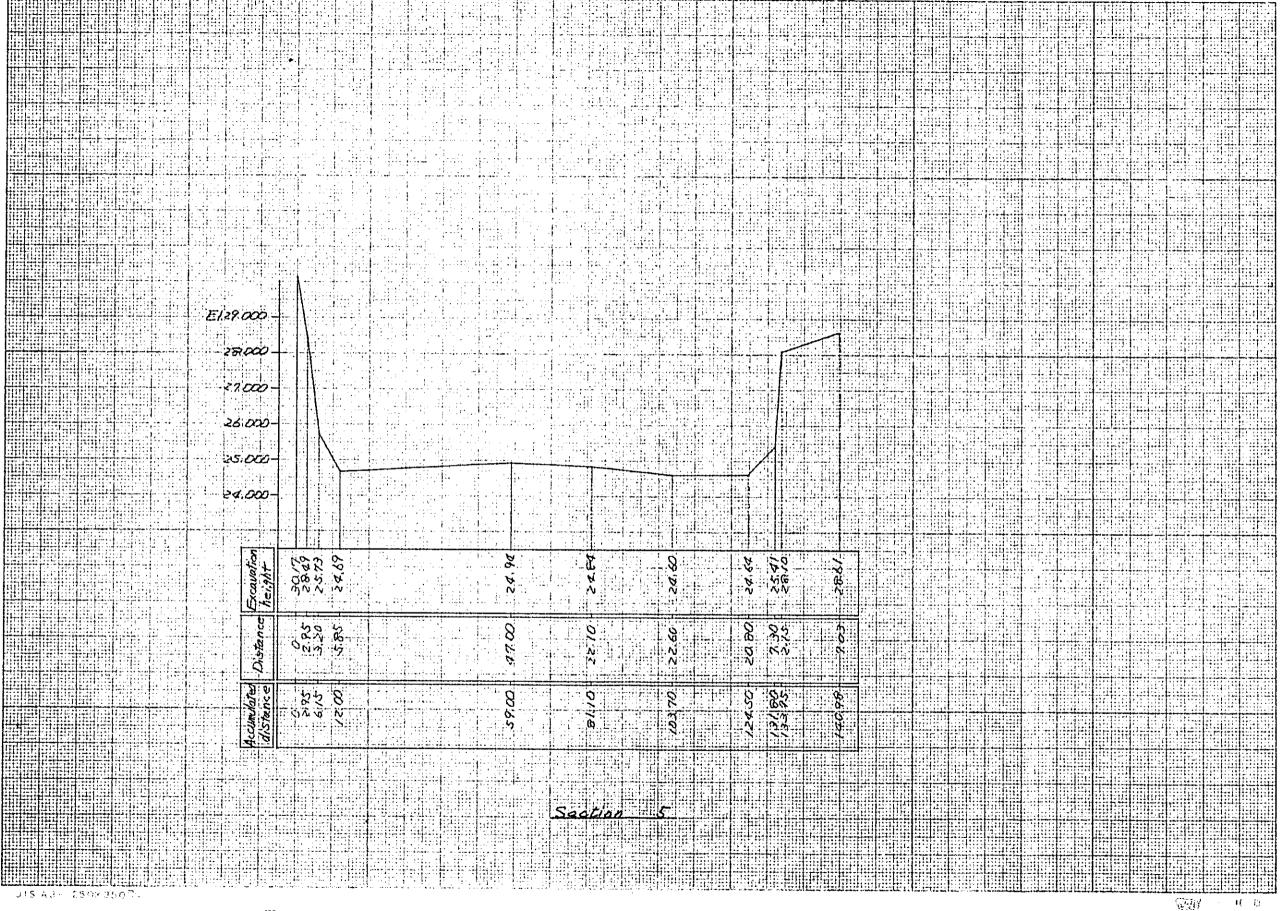
The compiled herein are the river cross sections surveyed in 1971 by the Government in an interval of five kilometers on the Brantas River strotch between the month of the Ngrovo River and Torusan gauge. The location of the river cross section is shown in Fig 6-29 in chapter 6, Technical Studies Report.

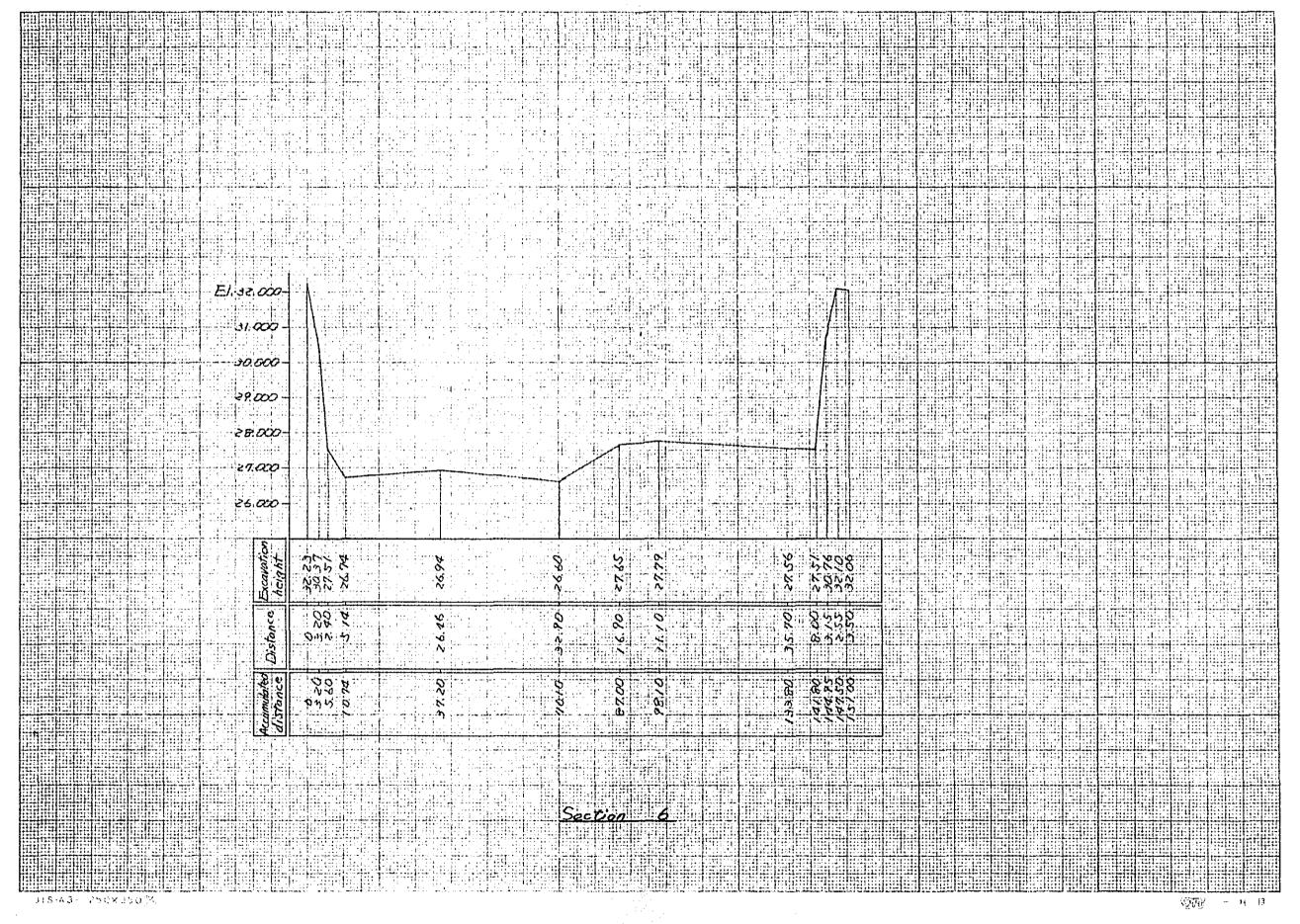
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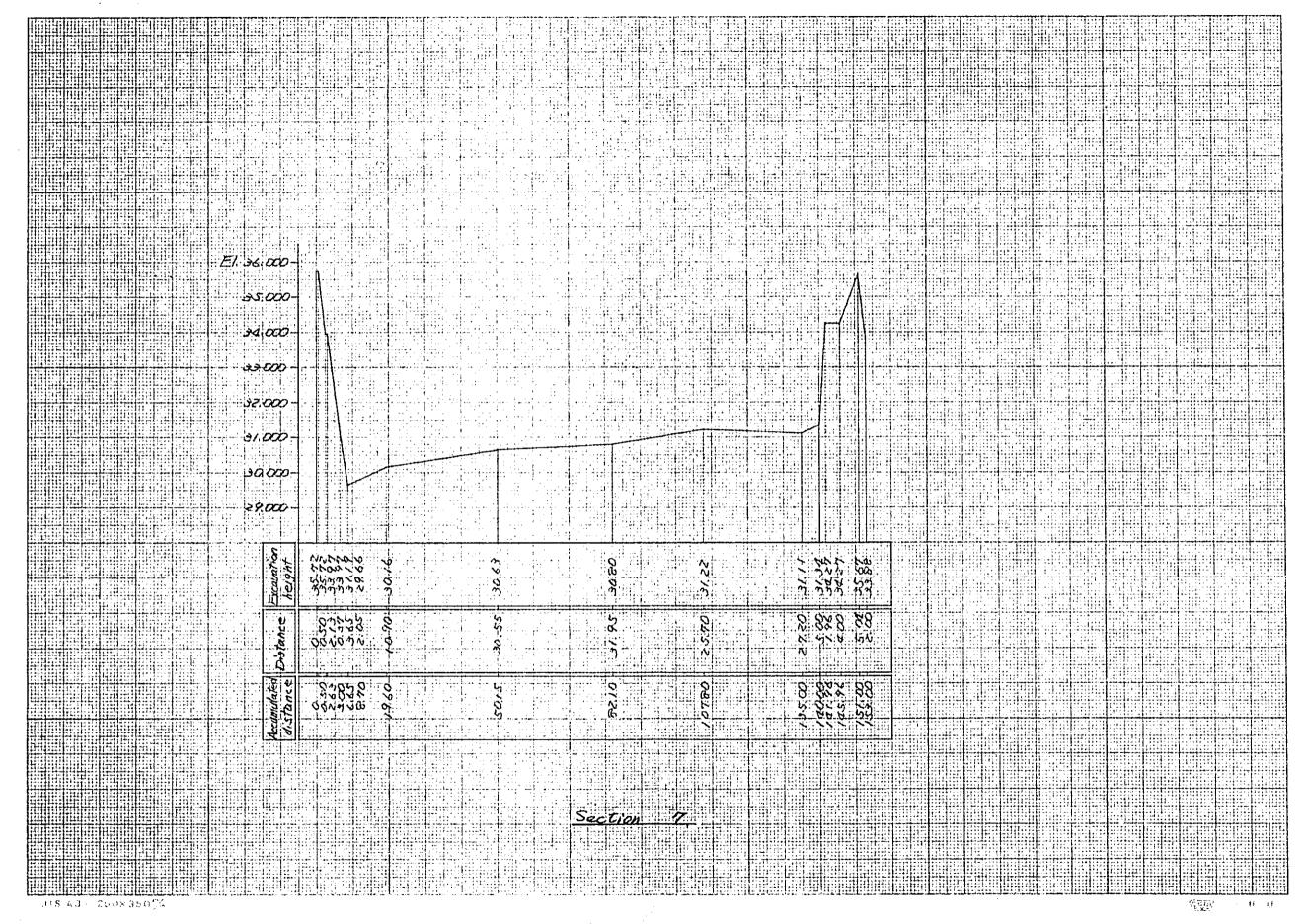


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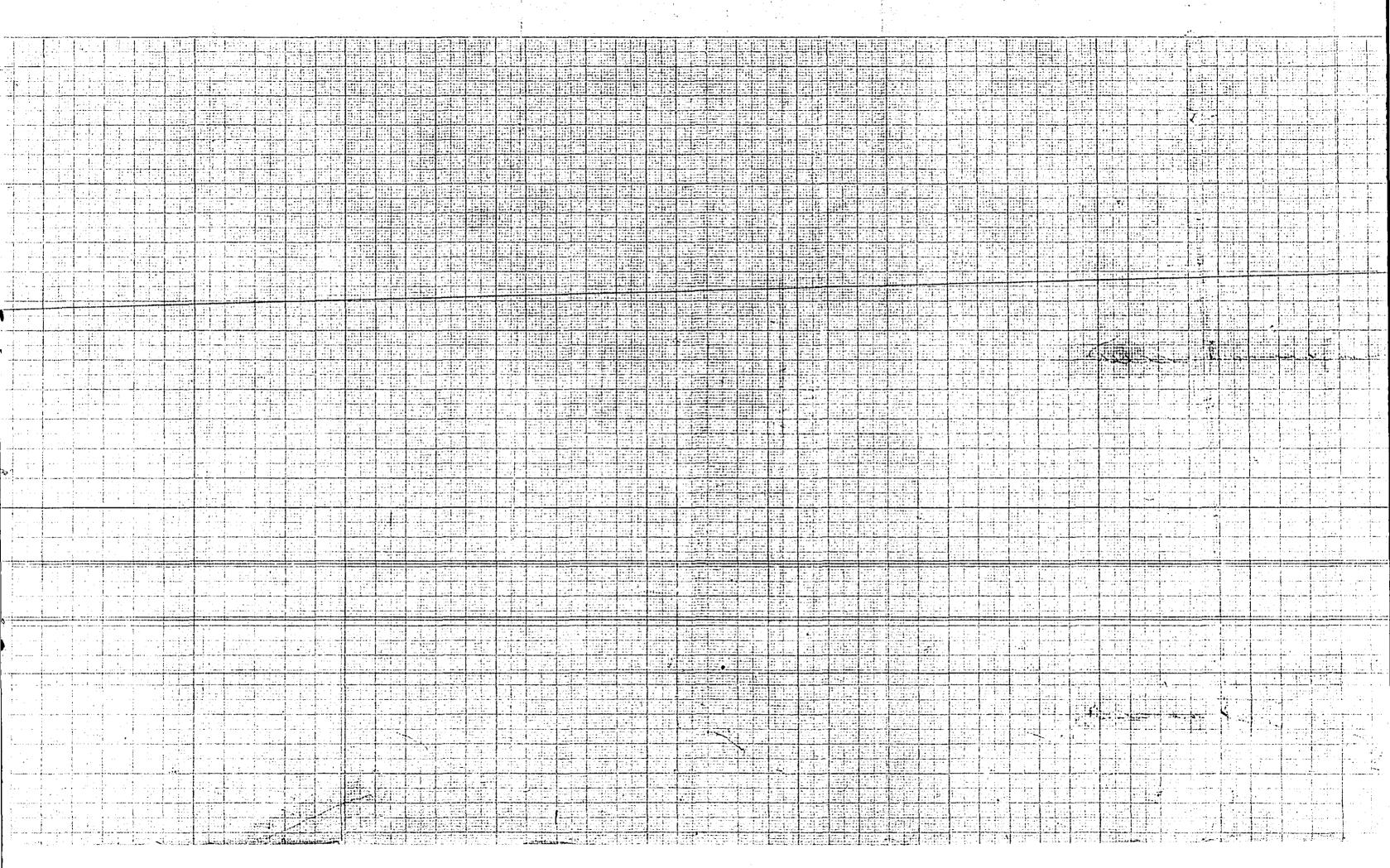


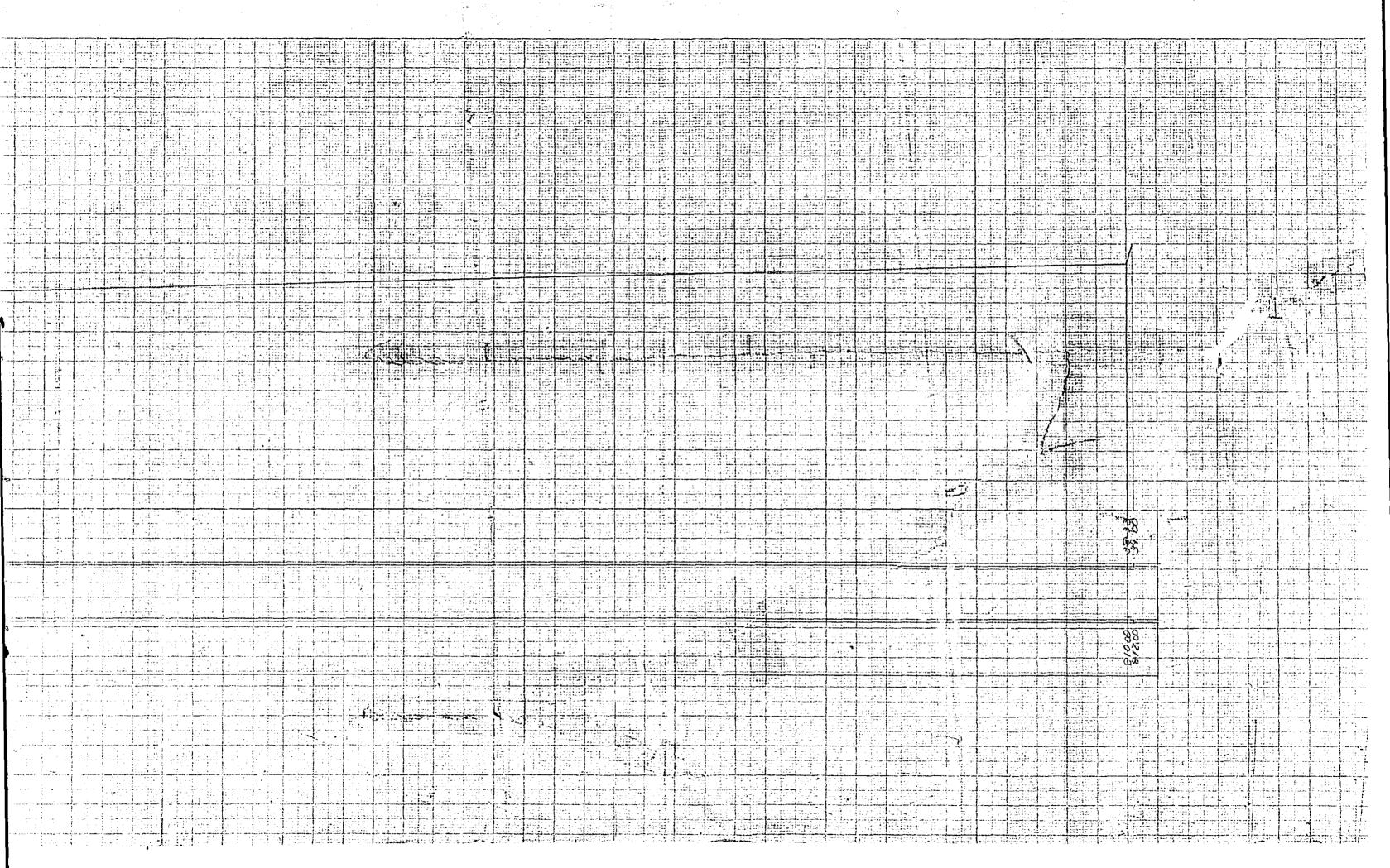


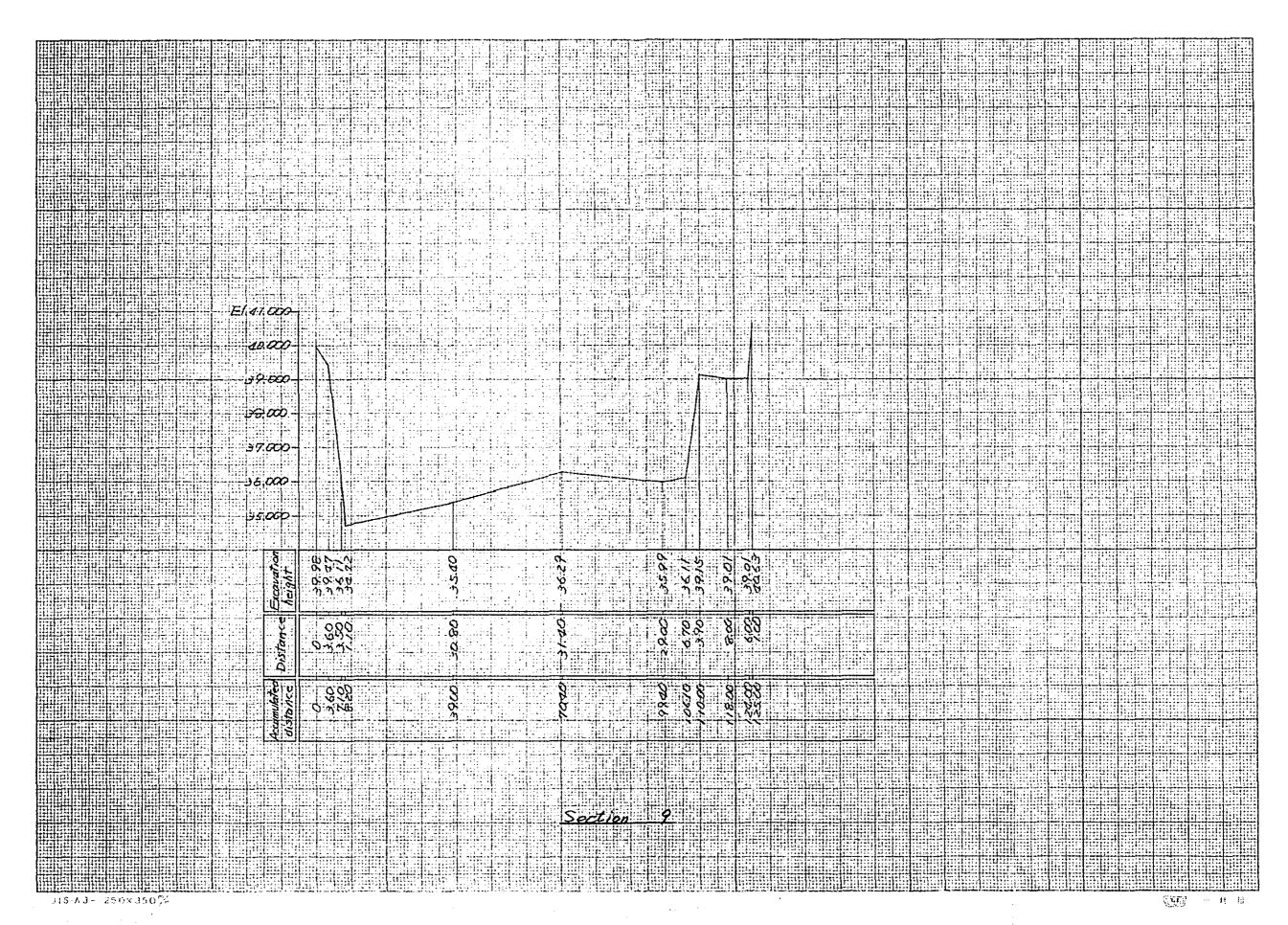




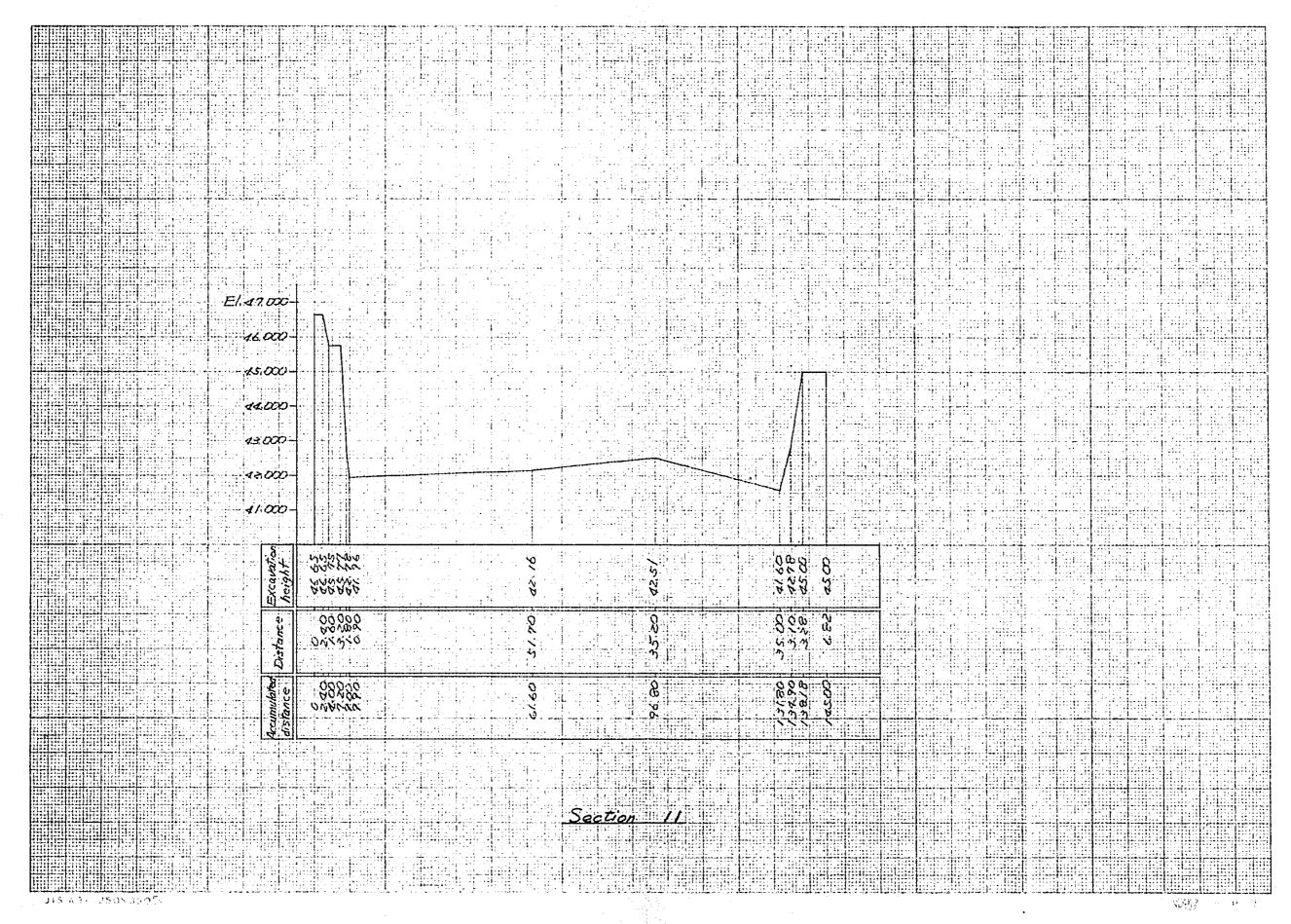
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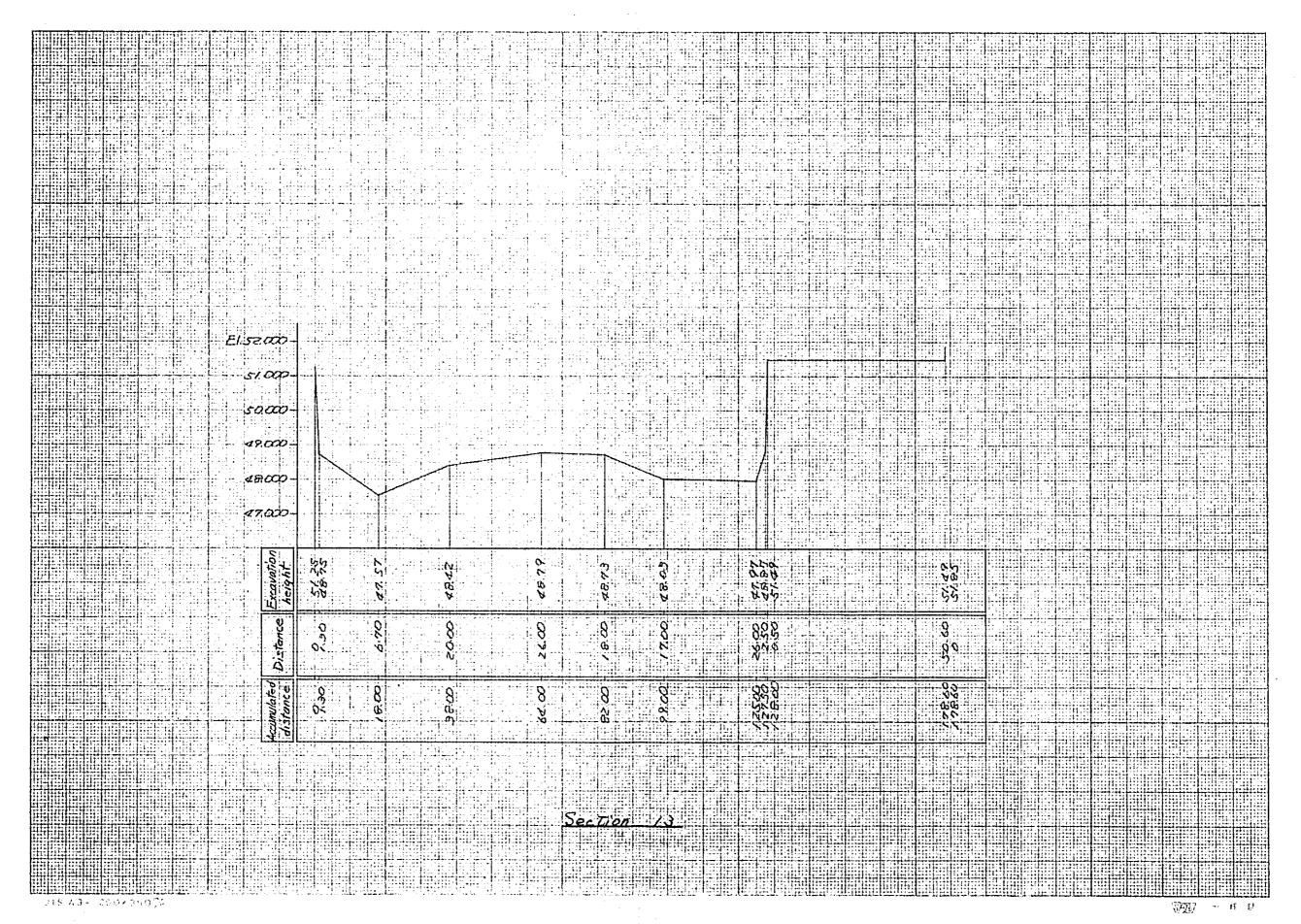


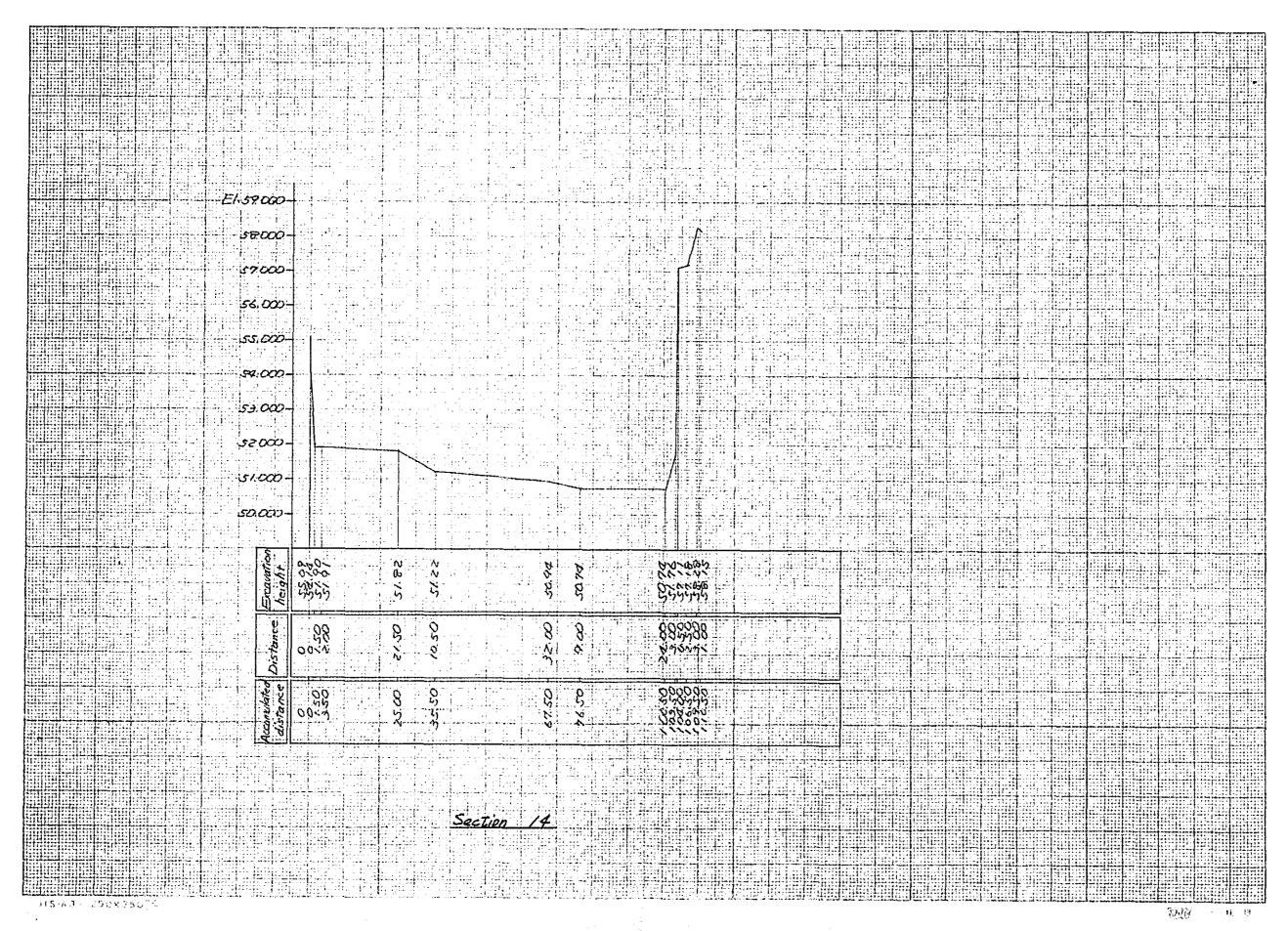


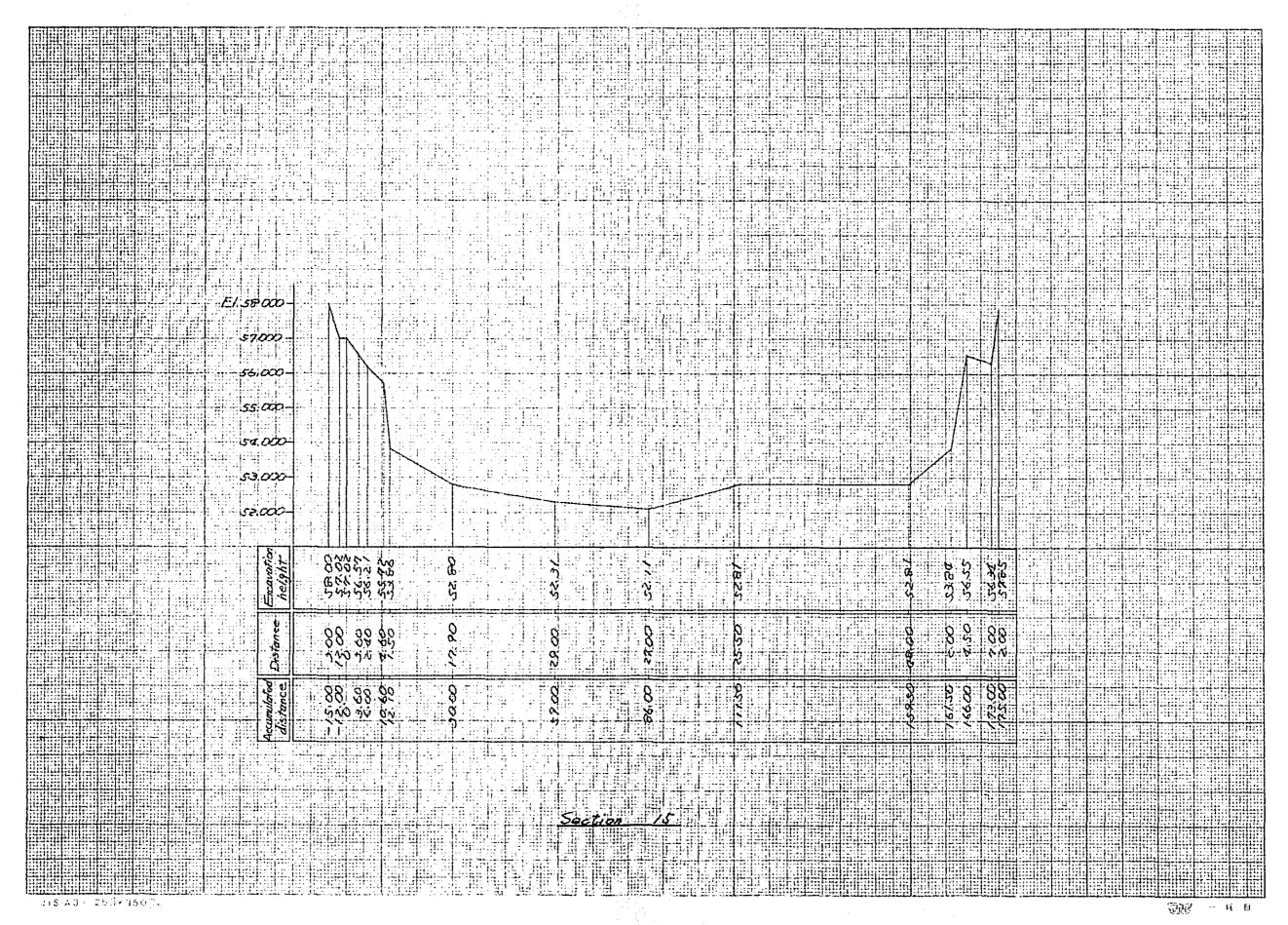
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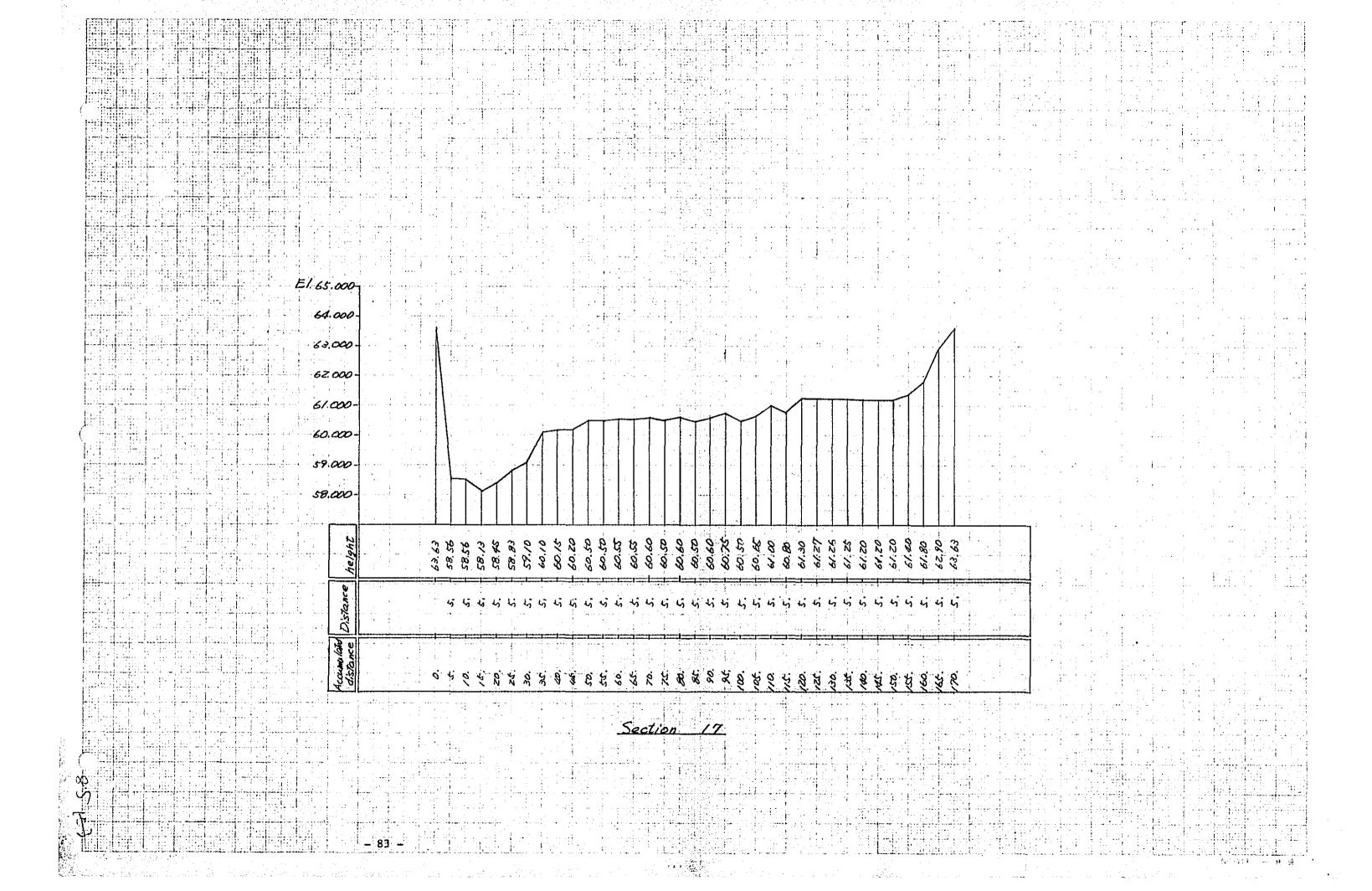




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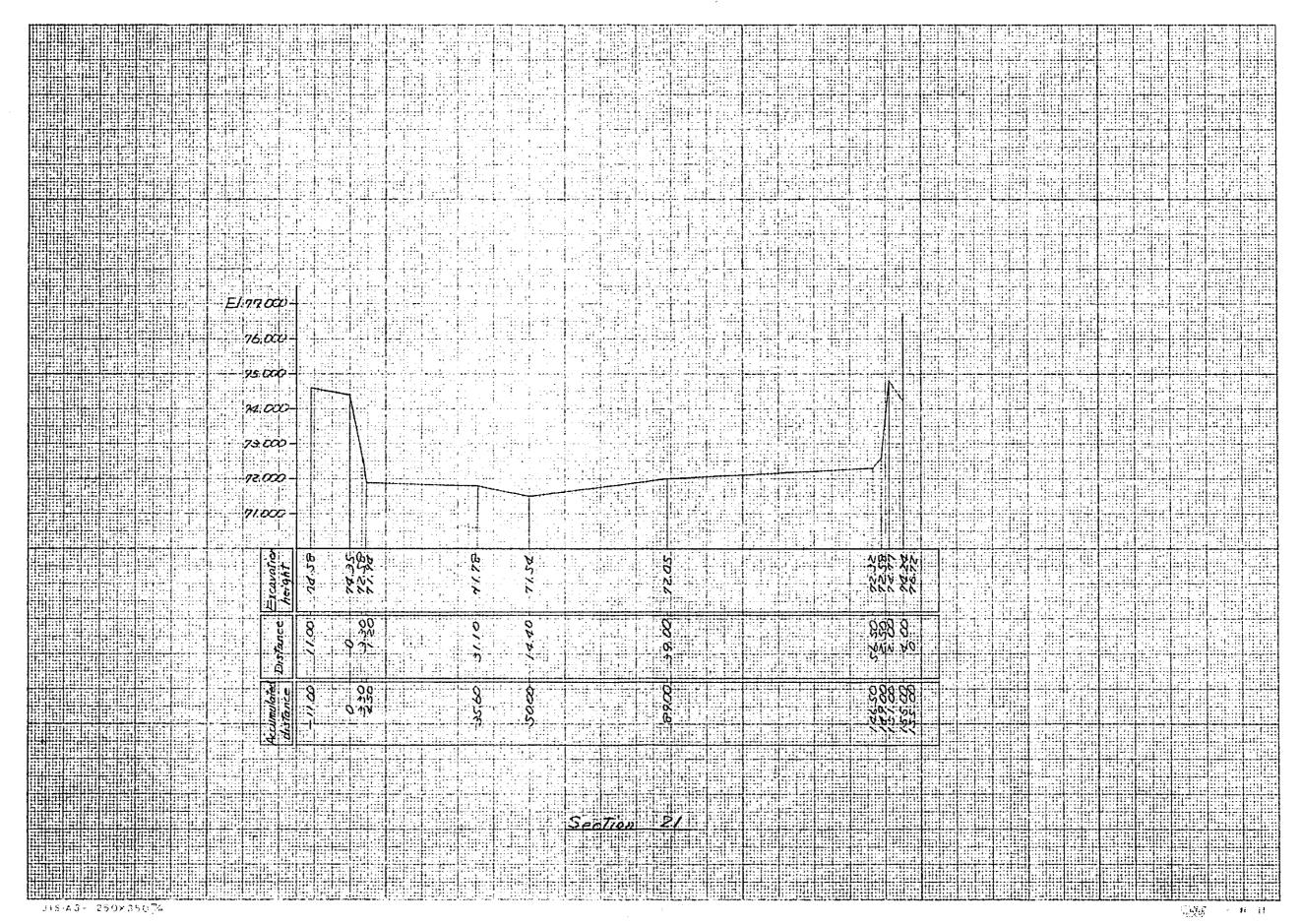
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_ 90 _			
رايين يراي دريق راييني مغيرديين اي الربية ما يقريوني بالحديثينية فيسطيون عقو مويا فعد المستوعدة بالمستوعد مستوعد المستويد المراز المراز المستويد المستويد المستويد المستويد المستويد المراز المستويد الم		ng Paland Charles (Ministra Kanda da 1644) (de 1644) Ministra	Thirtie Marchaelle (1900) and Sphilliad a chiliadh in tha 1900 Sheatann an 1900 an 19 Sheatann an 1900 an 1

7. Stage-Discharge Curve of Each River Cross Sections

The compiled herein are stage-discharge curve showing the relation between the water level and the discharge in each river cross section as mentioned before. The stage-discharge curve is calculated by using the formula as follows.

$$-i + \frac{dH}{dx} + \frac{1.10^2}{2g} \times \frac{d}{dx} \left(\frac{1}{\Lambda^2}\right) + \frac{0^2 n^2}{\Lambda^2 R^{4/3}} = 0$$

where: i; Slope of water surface

H; Water depth (m)

x; River length between the estuary and the assigned cross section (m)

Q : Discharge (m3/sec)

A : Flow area for assigned discharge (m2)

R; Hydraulic mean depth (m)

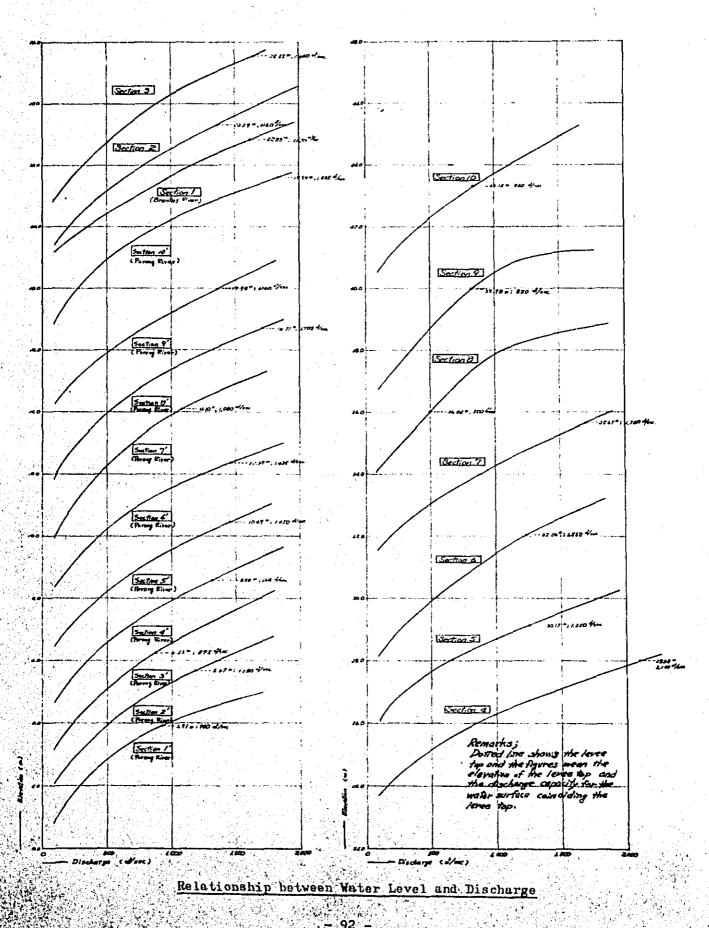
n; Coefficient of roughness

The discharges used are 100,500, 1,000 and 1500 cubic meters per second respectively. The coefficient of roughness used is 0.025 in the Porong River and that in the Brantas River is as follows.

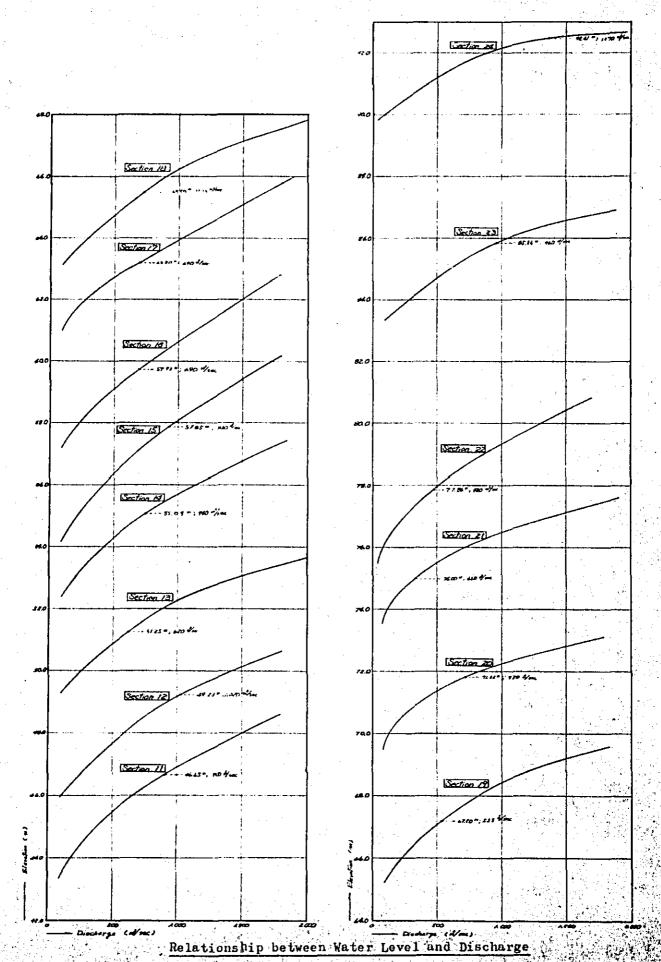
Section 1 - Section 9 = 0.030

Section 10 - Section 16 n = 0.032

Section $17 - Section 24 \qquad n = 0.035$



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8. Explanation of Damage Degree

8-1 Damage Degree of Upland Crop

The damage degree of upland crops such as maize, sweet potato and soybean is obtained from the following relation.

Damage degree = P x D x P

in which

- P; Rate of upland crop area to total cultivation area (%)
- D; Damage degree classified by inundation period (%)
- F; Flood frequency in each month (%)

According to the data prepared by the Government, the rate of the upland crop area to the total cultivated area is as follow.

					<u> </u>			
Month	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May
Rate (%)	56.4	- 55.7	41.2	17.0	6.6	6.0	6.4	10.4

Source; Data at Section in Kediri

As the data on the damage degree classfied by inundated period is not available, the following data used in Japan is applied in this study.

Inundated period	1 - 2	3 - 4	5 - 7	Over 7	
Inundated period (day) Damage rate (%)	30	80	100	100	
			, 		

According to the flood discharge data at Pakel gauge site, the flood frequency in each month is as follow.

-											
	Month		Oct.	Nov.	Dec.	Jan.	Peb.	Mar.	Apr.	May	Total
	Flood frequency	(%)	3	3.	23	18	20	14	12	,7	100

Based on the data mentioned in the above, the relation between the damage degree of the upland crop and the inundation period is estimated as shown in Table 8-1.

Table 8-1 Damage Degree of Upland Crop

Dur	cation					
Month	(day)	1 - 2	3 - 4	5 - 7	Over 7	
Oct.		0.51	1.35	1.69	1.69	
Nov.		0.5	1.34	1.67	1.67	
Dec.		2.84	7.58	9.48	9.48	
Jan.		0.92	2.45	3.06	3.06	
Feb.		0.4	1.06	1.32	1.32	
Mar.		0.25	0.67	0.84	0.84	
Apr.		0.23	0.62	0.77	0.77	
May		0.22	0.58	0.73	0.73	
Total		5.87	15,65	19.56	19.56	

The result of the above is illustrated in Fig.8-1

8-2 Damage Degree of Wet Monsoon Paddy

Damage degree of the wet monsoon paddy in the probable inundation area is estimated in the following relation.

Damage degree = $P \times D \times F$ (%)

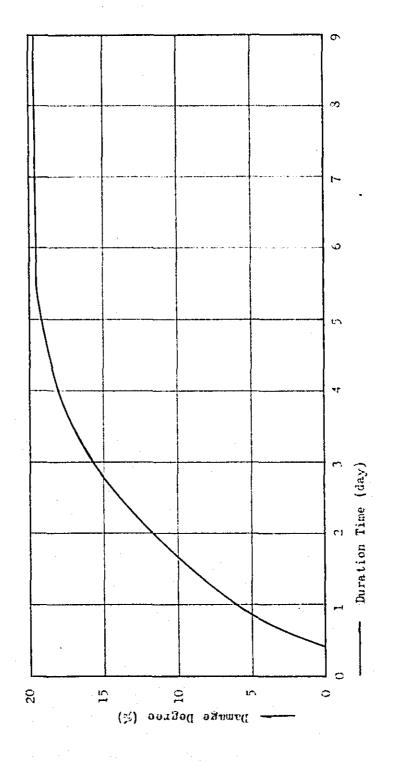
- in which P; Rate of wet monsoon paddy area to the tatol cultivated area (%)
 - D; Damage degree classified by growing stage of paddy and inundation period (%)
 - P; Flood frequency in each month (%)

According to the data prepared by the Government, the rate of the wet monsoon paddy area to the total cultivated area is as follows.

						* .			-
Month	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	
Rate (%)	0.1	4.4	16.6	53	74.5	78.8	78	62	

Source; Data at Section in Kediri

73 g. 8-1 Danage Degree for Upland Crop



Based on the above data, the cropping pattern of the wet monsoon paddy is presented as shown in Fig.8-2.

Since the data on the damage degree classified by growing stage of paddy and inundation period is not available, the following data used in Japan is applied in this study.

Damage Rate Classified by Growing Stage of Paddy and Inundation Period.

Growing H	eight	Inundation					fied by
period o	f paddy	depth	0-0.5	1-2	3-4	5-7	Over 7 days
	(cm)	(cm)	· · · · · · · · · · · · · · · · · · ·	%	%	%	%
lst	25	over 25		10	20	30	35
2nd	40	40		11	11	17	**
3rd	60	60		11	H	11	11
4th 2/3	90	Over 90	50	70	80	85	100
		below 90		20	50	85	100
1/3	100	Over 100		30	80	90	100
5th 1/2	100	Over 100		30	80	90	100
1/2	100	over 100	·	5	20	20	30
	period o lst 2nd 3rd 4th 2/3 1/3 5th 1/2	(cm) 1st 25 2nd 40 3rd 60 4th 2/3 90	period of paddy depth (cm) (cm) 1st 25 over 25 2nd 40 40 3rd 60 60 4th 2/3 90 Over 90 below 90 1/3 100 Over 100 5th 1/2 100 Over 100	period of paddy depth 0-0.5 (cm) (cm) lst 25 over 25 2nd 40 40 3rd 60 60 4th 2/3 90 Over 90 50 below 90 1/3 100 Over 100 5th 1/2 100 Over 100	Thundation Inundation Inundation	Thundation Inundation Inundation period period of paddy depth 0-0.5 1-2 3-4	period of paddy depth 0-0.5 1-2 3-4 5-7 (cm) (cm) % % % % 1st 25 over 25 10 20 30 2nd 40 40 " " " " 3rd 60 60 " " " " " 4th 2/3 90 Over 90 50 70 80 85 below 90 20 50 85 1/3 100 Over 100 30 80 90 5th 1/2 100 Over 100 30 80 90

The flood frequency in each month used in this study is the same as mentioned before.

Based on the data mentioned in the above, the relation between the damage degree of the wet monsoon paddy, the inundation period and the inundation depth is calculated in Table 8-2 and the result of which is illustrated in Fig 8-3.

iig. 8-2 Cropping Puttern of Wet Monsoon Paddy

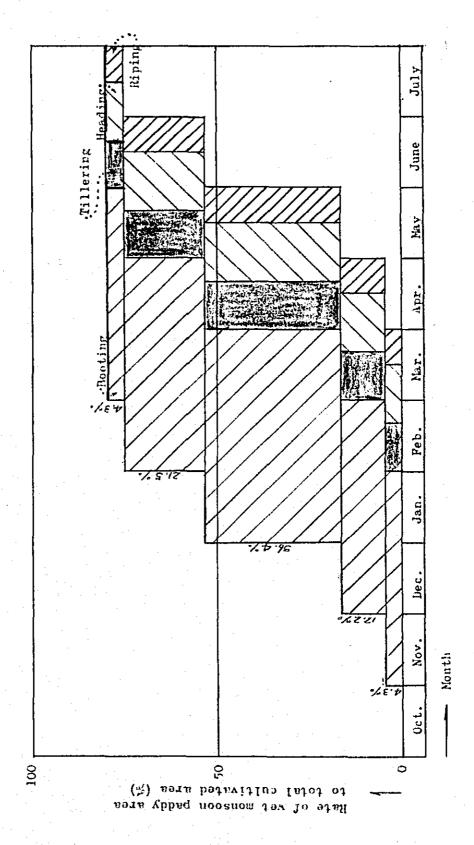


Table 8-2 Damage Degree of Wet Monsoon Paddy

(1) Water depth; les	s than O	.5 m			
Duration (day)	1 - 2	3 - 4	5 - 7	Over 7	Over 15
Nov.	0.014	0.027	0.041	0.047	0.135
Dec.	0.382	0.764	1,145	1.336	3.918
Jan.	0.873	1.746	2,619	2.992	8.730
Feb.	1,158	2.316	3,474	4.053	11.580
Mar.	0.361	0.722	1.084	1.265	3,612
Apr.	0.052	0,103	0.155	0.181	0.516
May					
Total	2.84	5.678	8.518	9.874	28.491

(2) Water depth; les	ss than 1.0 m							
Duration (day)	1 - 2	3 - 4	'5 - 7	Over 7	0ver 15			
Nov.	0,014	0.027	0.041	0.047	0.135			
Dec.	0.382	0.764	1.145	1.336	3,918			
Jan.	0.954	1.908	2,862	3.339	9,540			
Feb.	1,520	3.100	4.710	5.500	14.900			
Mar.	1,100	2,310	3.570	4.178	11.033			
Apr.	0.937	2.166	3.541	4.155	8.916			
Hay	0.230	0,561	0.941	1.106	4.354			
Total	5.14	10.836	16.810	19.662	52,796			

	0.014	0.027	0.041	0.047
	0.382			
	-,	0.764	1.145	1.336
	0.954	1.908	2.862	3.339
•	1,910	3,520	4,980	5.800
	1.953	3.542	4.493	5.189
	3.087	4.934	6.382	6.559
	1.328	2.538	2.924	3.267
	9,627	17.233	22.826	25.537
		1.953 3.087 1.328	1.9533.5423.0874.9341.3282.538	1.953 3.542 4.493 3.087 4.934 6.382 1.328 2.538 2.924

Fig. 8-3 Relation between Plood Duration and Damage Degree

