

Hourly Rainfall on September 1988 at Major Stations

Serial	Station
3111	Paramo de Mucuchies
3112	Paramo Pico El Aguila
3024	Valle Grande
3049	La Punta
3042	Mesa de Ejido
3080	El Morro
3169	Jaji
8057	Tostos
3108	El Meson
3035	El Vigia

0870801

SERIAL	CIR	ZONA	AROMES
3111	1	16	88

SERIAL	CIR	ZONA	AROMES
3111	5	15	90:09

# EVALUACION PLUVIOGRAFICA

ZONA N° 11

Ministerio del Ambiente y de los Recursos Naturales Renovables  
 DIRECCION GENERAL DE INFORMACION E INVESTIGACION DEL AMBIENTE  
 DIVISION DE HIDROLOGIA  
 DIVISION DE HIDROMETEOROLOGIA

Estación: Reserva Murumbies / Estado: Mérida / mes: SEPTIEMBRE / fecha: 11-01-89  
 Evaluado por: M. Pérez / Revisado por: Orlando

DIA	H	1	2	3	4	5	6	7	8	9	10	11	12	SKL	13	14	15	16	17	18	19	20	21	22	23	24	SKL										
14	15	16	17	18	22	23	27	28	32	33	37	38	42	43	47	48	52	53	57	58	62	63	67	68	72	73	77	78	80								
1	12	02													21	29		32	33	37	38	42	43	47	48	52	53	57	58								
2	12												02																								
3	12																																				
4	12																																				
5	12																																				
6	12	29	39	45	47	48									88	114	120	151	178	187	207	239	265	288	308	339	355										
7	12	44	67	74	105	114	118	124	129				72																								
8	12																																				
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30	12																																				
31	12																																				

Observaciones:

SERIAL	C	R	ZONA	AÑO	MES
3111	2	16	88	09	

DIA	HORA	fc	LLUVIA	ENGLB.	PC	5m	10m	15m	30m	1h	2h	3h	6h	9h	12h	24h	PR	COMENTARIOS (CODIGO: + 2079)				
1	0955		50.0																			
2																						
3																						
4																						
5																						
6																						
7																						
8																						
9	0810			80.0																		
10																						
11																						
12																						
13																						
14																						
15																						
16																						
17																						
18																						
19																						
20	1010			60.0																		
21																						
22																						
23																						
24																						
25																						
26																						
27																						
28																						
29																						
30																						
31																						
SERIAL	C	R	ZONA	AÑO	MES	MAXIMAS																
3111	3	16	88	09		INTENSIDADES	40	53	73	122	125	184	243	316	445	1752						
3111	4	16	88	09		FECHAS	10	12	13	10	10	10	06	06	06	06						

FIRMA EVALUADOR: [Firma] FECHA: 28-  
 REVISADO POR: [Firma] FECHA: 11-01  
 Firma, jefe del Departamento de Hidrología

Observaciones:

CO8708802

SERIAL	CIR	ZONA	ARÍTMES
3112	11	16	88

# EVALUACION PLUVIOGRAFICA

ZONA N° 16



Ministerio del Ambiente y de los Recursos  
Naturales Renovables  
DIRECCION GENERAL DE INFORMACION  
E INVESTIGACION DEL AMBIENTE  
DIRECCION DE HIDROLOGIA  
DIVISION DE HIDROMETEOROLOGIA

Estación: PAYAMO PICO AGUILO Estado: MERIDA Mes: SEPTIEMBRE 1988  
 Evaluado por: M. Peón fecha: 29-12-88 revisado por: Juan Carlos fecha: 11-01-89

DIA	H	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	SRL
14	10	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
1	12																									
2	12																									
3	12																									
4	12																									
5	12																									
6	12	14	21	22	24	25						60	76	105	112	134	168	172	192	226	258	278	315	321		
7	12	13	24	32	36	59	70	132	157				160	161	168											
8	12												06	44	85	86										
9	12												06	37	91	126	160	162								
9	12												06	114	126	134										
10	12	39	71	75									28	114	126	134										
11	12																									
12	12	01	02	03																						
13	12																									
14	12																									
15	12																									
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31	12																									

Observaciones:

SERIAL	C	R	ZONA	AÑO	MES
3112	2	16	BB	88	09

DIA	HORA	fc	LLUVIA		5m	10m	15m	30m	1h	2h	3h	6h	9h	12h	24h	PR	COMENTARIOS (CODIGO: + 2079)
			mm	ENGL.													
1	1813		560														
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9	0830		822														
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20	5201		999														
21																	
22																	
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25																	
26																	
27																	
28																	
29																	
30																	
31																	

FIRMA EVALUADOR: *A. S. O. J.* FECHA: 29/11/88

REVISADO POR: *[Signature]* FECHA: 11-01-89

Firma Jefe del Departamento de Hidrología

SERIAL	C/R	ZONA	AÑO	MES	MAXIMAS INTENSIDADES	FECHAS
3112	3	16	BB	88	04	07
3112	4	16	BB	88	09	09

Observaciones:

C-08312002

SERIAL	C/R	ZONA	AÑOS
3024	11	16	88

SERIAL	C/R	ZONA	AÑOS
3024	15	16	88

# EVALUACION PLUVIOGRAFICA

ZONA N° 16

Estación: VALLE GRANDE

revisado por: *Almo Nava*

MERIDA

revisado por: *David Gaudin*

mes:

SEPTIEMBRE - 19 77

fecha: 13-01-89

Ministerio del Ambiente y de los Recursos Naturales Renovables  
DIRECCION GENERAL DE INFORMATICA E INVESTIGACION DEL AMBIENTE  
DIRECCION DE MORFOLOGIA  
DIVISION DE HIDROMETEOROLOGIA

DIA	M	1	2	3	4	5	6	7	8	9	10	11	12	SRL	DIA	M	13	14	15	16	17	18	19	20	21	22	23	24	25						
1	12														1	24																			
2	12														2	24																			
3	12														3	24																			
4	12														4	24																			
5	12														5	24																			
6	12	0	0	0	0	0	0	0	0	0	0	0	0		6	24	0	0.3	0.5	0.5	0.5	4.5	11.7	15.5	19.3	25.1	31.9								
7	12	5.4	6.5												7	24			9.8		13.8	27.5	28.4		28.5										
8	12	0.4	1.2	1.3											8	24			3.7	6.2					6.6	7.9	8.0	11.1							
9	12	0.9			1.8	2.7									9	24			4.0	5.3	6.5	6.8	7.4		14.4										
10	12														10	24	4.1	5.7	5.9			6.1	17.2	26.1	29.1	29.4									
11	12														11	24		3.5				7.6			7.7										
12	12														12	24			0.1																
13	12														13	24		0.3	5.1	8.2	10.9														
14	12														14	24																			
15	12														15	24																			
16	12														16	24																			
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29	12														29	24																			
30	12														30	24																			
31	12														31	24																			

Observaciones:



FECHA	C. R.	ZONA	ARREGLO
04	1	1628	

8049

# EVALUACION PLUVIOGRAFICA

ZONA N° 16

POSTA LA

Estación: 16

30

Alamo Naran

Evaluado por:

fecha: 23-11-88

Estado: 31 / U. E. I. D. S.

revisado por:

Alvaro Gualdrón

mes:

SEPTIEMBRE

19 88

Ministerio del Ambiente y de los Recursos Naturales Renovables  
DIRECCION GENERAL DE INFORMACION E INVESTIGACION DEL AMBIENTE  
DIRECCION DE HIDROLOGIA  
DIVISION DE HIDROMETEOROLOGIA

FECHA	C. R.	ZONA	ARREGLO	1	2	3	4	5	6	7	8	9	10	11	12	SRL	DIA	M	13	14	15	16	17	18	19	20	21	22	23	24	25					
1	12																19	7.1	9.2	9.3																
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3	12																																			
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30	12																																			
31	12																																			

Observaciones:







SERIAL	C.R.	ZONA	AÑO	MES
3042	2	16	87	07

DIA	HORA	FC	LLUVIA	ENGLB.	PC	5m	10m	15m	30m	1h	2h	3h	6h	9h	12h	24h	PR	COMENTARIOS (CODIGO: + 2079)	SERIAL
1	15:18	17	16	22223	28	3132	3536	4344	4748	5132	5536	5940	6344	6748	7152	7556	80		2576
1								07	1.0	2.2	2.8	3.2	4.0	0.8	0.9		2.9		
2								03	0.5				0.6				4.0		
3																			
4																			
5	15:20		38.6	2				1.6	2.8	4.4	7.2	10.0	10.8	10.8	10.8	10.8	12.8		
6								2.5	4.2	5.5	8.7	10.0	11.4				16.6		
7								0.6	0.3	1.0							12.5		
8								7.9	9.0	15.4	16.3	16.8		9.4			26.2		
9								1.1	1.2	1.6	1.7		1.9				0.2		
10																	1.9		
11																			
12								2.4	3.3	3.6	3.7	4.3	5.0				2.1		
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			
25																			
26	08:00							0	0	0	0	0	0	0	0	0	20.5		
27								0.1											
28								2.2	2.3						2.4	2.7	1.4		
29								1.3	1.8	2.1	2.2	2.3					2.4		
30								0.4									2.3		
31																			
103.7																			

FIRMA EVALUADOR: [Signature] FECHA: 19-01-  
 REVISADO POR: [Signature] FECHA: 25-01-  
 Firma, Jefe del Departamento de Hidrología

SERIAL	C.R.	ZONA	AÑO	MES	MAXIMAS
3042	2	16	87	07	
					FECHAS

Observaciones:

3714101

CLICR	ZONA	AROMES
01	16	88
05	16	88
04	16	88

3080

# EVALUACION PLUVIOGRAFICA

ZONA N° 16

El Morro

MEBIDA

Estación: 16

Estado: 51

mes: SEPTIEMBRE

19 77 88

Evaluado por: Alvaro Naranjo

fecha: 07-09-88

revisado por: [Signature]

fecha: 25-01-89

A	H	1	2	3	4	5	6	7	8	9	10	11	12	SRL	DIA	H	13	14	15	16	17	18	19	20	21	22	23	24	SRL
1	12	0.9	2.2	2.6	3.2	3.3									1	24													
2	12	2.7	7.2	8.4			0.5	0.6	2.2	2.3					2	24													
3	12														3	24													
4	12														4	24													
5	12														5	24													
6	12														6	24													
7	12	1.3	1.9												7	24													
8	12														8	24													
9	12														9	24													
10	12														10	24													
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20	12														20	24													
21	12														21	24													
22	12														22	24													
23	12	3.1	3.2	3.4	3.6	4.3									23	24													
24	12	2.3	3.6	3.7											24	24													
25	12														25	24													
26	12														26	24													
27	12														27	24													
28	12														28	24													
29	12														29	24													
30	12														30	24													
31	12														31	24													

Observaciones:



115306

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

AL	R	ZONA	AROMES
9	3	16	88 09

Estación: 16

Evalúado por: JATI

Estado: 31

fecha: 16-01-89

revisado por: JATI

fecha: 16-01-89

HERIDA

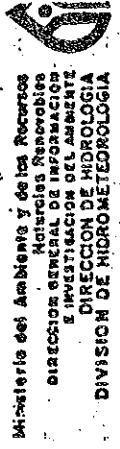
mes: SEPTIEMBRE

19 8

17

# EVALUACION PLUVIOGRAFICA

ZONA N° 16



Ministerio del Ambiente y de los Recursos  
Naturales Reservados  
DIRECCION GENERAL DE INFORMACION  
E INVESTIGACION DEL AMBIENTE  
DIRECCION DE HIDROLOGIA  
DIVISION DE MICROMETEOLOGIA

H	1	2	3	4	5	6	7	8	9	10	11	12	SRL	DIA	N	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
1	17.10	20.23	27.28	32.33	37.38	42.43	47.48	52.53	57.58	62.63	67.68	72.73	77.78	82.83	87.88	92.93	97.98	102.103	107.108	112.113	117.118	122.123	127.128	132.133	137.138	142.143	147.148	152.153	157.158	162.163	167.168	172.173	177.178		
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0.2	0.7	5.4	6.3																															
4	2.7																																		
5	0.3																																		
6	0.3																																		
7	0.3																																		
8	0.3																																		
9	0.3																																		
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28	0.3																																		
29	0.3																																		
30	0.3																																		
31	0.3																																		

Observaciones:









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SERIAL	C.R.	ZONA	AROMES
3108	1	16	88 09

# EVALUACION PLUVIOGRAFICA

ZONA N° 16

Ministerio del Ambiente y de los Recursos  
Materiales Renovables  
DIRECCION GENERAL DE INFORMACION  
E INVESTIGACION DEL AMBIENTE  
DIRECCION DE HIDROLOGIA  
DIVISION DE HIDROMETEOROLOGIA

Estación: HERIDA mes: SEPTIEMBRE / 19 89  
 Estado: 30 fecha: 05-12-89  
 Evaluado por: Alonso Nave revisado por: Guadalupe fecha: 11-01-89

DIA	H	1	2	3	4	5	6	7	8	9	10	11	12	SRL	DIA	H	13	14	15	16	17	18	19	20	21	22	23	24	25								
1	12														1	24			2.1	3.2	3.4																
2	12														2	24																					
3	12														3	24																					
4	12														4	24																					
5	12														5	24				0.8			177	231	237												
6	12														6	24																					
7	12														7	24				1.4	1.5																
8	12														8	24																					
9	12														9	24																					
10	12														10	24																					
11	12														11	24																					
12	12														12	24																					
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29	12														29	24																					
30	12														30	24																					
31	12														31	24																					

Observaciones:

SERIAL	C	R	ZONA	AÑO	MES
3102	2	16	88	04	

DIA	MORA	fc	LLUVIA	ENGLOB.	PC	5m	10m	15m	30m	1h	2h	3h	6h	9h	12h	24h	PR	COMENTARIOS (CODIGO: 2079)	SER.	
15	16	17	18	23	28	31	36	40	44	48	52	56	60	64	68	72	76	80	84	88
1	1115		180					1.1	1.6	2.2	3.4						17.7			75174
2								0.9	1.4	1.7	1.8						3.4			
3																	1.8			
4																				
5								10.8	16.9	21.5	22.4	28.9	23.7	23.8						
6								1.3	2.6	3.0	6.8	8.5	9.1			9.7	24.4			
7								0.3	0.5	0.7	0.9					1.5	10.0			
8								9.4	12.4	15.8	17.5	17.6					0.6			
9								9.3	13.5	18.2	19.2					25.5	36.8			
10																	6.3			
11								3.6	3.8				4.0							
12								0.1	0.2								4.2			
13								0.4	0.6	0.8	1.0					1.5	0.5			
14								2.4	2.6	2.7	2.8						1.0			
15								0.5	0.7								5.8			
16								7.7	8.0	8.1							0.7			
17								0.5	0.8	0.9	1.0						8.1			
18								5.3	3.6	6.0	5.5	7.7	13.2				1.0			
19																	13.2			
20																				
21	0745							1.0	1.5	1.8	2.0									
22								4.6	13.6	15.5	17.4		17.6				2.0			
23																	17.6			
24																				
25																				
26																				
27								0.2	0.3	0.4							0.4			
28								2.0	2.4	2.5							5.4			
29								0.1	0.2				0.3							
30								5.2	7.4	8.9	10.6		12.4	12.9	13.0		0.3			
31																				

1812 m.m.

FIRMA EVALUADOR: *[Signature]* FECHA: 05-12-8  
 REVISADO POR: *[Signature]* FECHA: 11-01-8  
 Jefe del Departamento de Hidrología

Observaciones:

Copia

10	10		
1	10		
2	6		
3	7		
4	10		
Indicativo	Código	Año	Map
7035	1203	88	09
45	9	10	11
	10	11	12

RESUMEN MENSUAL DEL PLUVIOGRAFO: El Vigia

ESTADO: MEXICO MES: SEPTIEMBRE 19 88  
 Evaluó: A. Corral Fecha: 03-10-88 Revisó: JDO Fecha: 20/08/88

DIA	H	1	2	3	4	5	6	7	8	9	10	11	12	SRL	DIA	H	13	14	15	16	17	18	19	20	21	22	23	24	SRL	
14	15	16	17	18	22	23	27	28	32	33	37	38	42	43	47	48	52	53	57	58	62	63	67	68	72	73	77	78	80	
01	12																													
02	12																													
03	12																													
04	12																													
05	12																													
06	12		1.0	1.4																										
07	12		0.3	0.5																										
08	12																													
09	12		3.4	5.3	6.2	6.5	6.8	6.7																						
10	12																													
11	12																													
12	12																													
13	12		0.1	0.3	0.6	1.0	1.2																							
14	12																													
15	12																													
16	12																													
17	12																													
18	12																													
19	12																													
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24	12																													
25	12																													
26	12																													
27	12																													
28	12																													
29	12																													
30	12		0.8	0.9																										
31	12																													



Arithmetic Mean Daily Rainfall of the  
Chama River Basin from 1967 to 1987

\*\*\*\* 1967 \*\*\*\*

	1	2	3	4	5	6	7	8	9	10	11	12												
1	14	.0	13	2.0	14	.3	12	1.4	10	2.5	12	1.6	14	.2	14	.6	14	.5	15	5.9	15	3.8	14	.5
2	14	.0	13	2.0	14	.0	12	3.2	10	15.9	15	5.0	14	.2	14	1.9	14	.0	15	4.2	14	2.1	14	.3
3	13	.0	13	.9	14	.0	12	1.4	10	4.3	15	3.8	14	.9	13	.0	14	.7	14	1.6	14	.5	13	.1
4	12	.0	13	1.2	14	.0	12	.0	14	6.3	15	1.8	14	.1	13	1.5	13	2.3	14	.1	14	6.2	13	.1
5	12	5.8	13	3.5	14	1.6	14	.3	13	6.4	15	5.8	14	.9	13	.7	14	2.5	14	.0	14	2.9	13	1.2
6	13	.0	13	2.4	14	.0	14	.2	13	.5	14	.5	14	4.2	13	.1	14	.7	14	.0	14	.9	14	.3
7	13	.0	13	.0	14	.0	14	2.7	13	2.8	13	.4	14	1.1	13	.1	14	.3	14	.1	14	.6	14	1.8
8	13	.3	13	.7	14	.0	14	2.1	13	3.5	13	1.1	13	2.0	12	2.0	14	3.2	13	2.1	14	2.6	14	4.5
9	13	.0	13	.2	14	.2	13	.0	13	.2	13	2.1	13	6.2	12	5.0	14	4.4	13	6.1	14	3.0	14	1.5
10	13	.0	13	.3	14	.6	13	2.4	13	2.1	14	5.7	13	.3	12	.4	13	6.3	14	1.5	14	2.6	14	.9
11	13	.1	13	.4	14	.1	13	.5	13	5.0	14	1.4	12	1.9	14	1.3	13	.8	14	3.2	14	2.8	13	.1
12	13	.0	13	.2	14	.9	13	2.9	14	1.9	13	1.3	12	.1	14	.3	13	1.2	14	.0	13	1.7	13	.9
13	13	.4	13	.0	14	.6	12	.6	15	.4	13	.8	12	1.9	14	2.8	13	1.2	14	.0	13	.0	13	1.9
14	13	.3	13	.0	13	2.4	11	15.7	15	1.3	13	2.0	13	2.9	14	2.8	13	2.4	14	.1	13	.2	13	2.2
15	13	.0	13	1.8	13	.3	11	2.3	15	1.3	13	.4	13	.8	14	1.1	13	1.5	13	.9	13	1.4	13	1.1
16	13	1.0	13	2.7	13	.1	11	5.5	15	.2	14	1.2	13	5.5	13	3.7	13	2.1	13	.3	13	.0	14	.0
17	13	.8	13	.7	12	1.3	11	3.4	15	1.2	14	6.0	13	.8	13	.0	12	.0	13	.0	13	2.4	14	.0
18	13	.0	13	.0	12	10.7	11	4.5	15	4.1	13	.1	12	1.8	12	2.2	12	.2	13	3.2	13	.2	13	.0
19	13	.0	12	.1	12	.2	11	12.1	15	4.7	11	.3	12	1.4	12	.1	12	1.9	13	.9	13	.7	13	.0
20	13	1.5	12	2.4	12	3.6	11	12.0	15	.1	11	9.8	12	1.5	12	1.2	13	1.1	12	6.7	13	5.5	13	.9
21	12	1.7	12	4.0	11	1.6	11	3.9	15	.0	11	1.2	13	.2	12	1.8	13	1.4	12	1.1	13	1.7	12	3.6
22	12	.2	12	.8	11	2.2	11	5.0	15	1.4	12	.7	13	2.4	11	1.3	14	.0	12	.3	13	7.4	13	4.3
23	12	2.2	12	.1	11	.0	11	9.6	15	1.6	11	.3	13	1.0	11	2.3	15	3.2	11	1.6	13	.8	14	.3
24	12	.0	12	.1	11	.0	11	7.2	14	.0	11	1.5	13	6.4	11	.3	15	.2	11	.7	14	.2	14	1.6
25	12	.0	12	.0	11	.0	10	1.0	14	1.2	13	.7	12	9.8	12	.1	14	.0	11	6.4	14	2.7	14	2.0
26	12	3.0	12	.8	10	1.9	9	1.1	14	.0	13	2.8	12	2.8	13	2.8	14	2.2	12	1.1	14	1.5	14	1.8
27	11	.7	12	3.9	10	.1	9	6.9	14	.8	13	7.6	12	.2	13	3.1	14	.7	12	5.8	15	3.0	13	12.2
28	12	.0	13	.0	10	.0	9	2.3	14	.1	13	4.5	13	.1	13	.4	13	.9	11	8.6	15	2.7	13	5.3
29	12	7.7	0	.0	10	3.3	9	1.1	13	.2	14	.4	13	.0	13	.1	12	4.9	10	1.5	15	.9	13	1.7
30	12	9.6	0	.0	10	.0	10	11.7	13	4.6	14	.7	13	.5	12	.5	14	9.8	10	.8	15	.8	15	1.1
31	12	5.9	0	.0	11	3.3	0	.0	13	1.3	0	.0	13	3.0	12	3.4	0	.0	10	1.3	0	.0	15	.2
41.0	31.1	35.3	122.8	75.9	71.5	60.7	43.8	56.6	66.0	61.7	52.5													

\*\*\*\* 1968 \*\*\*\*

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

1	15	2.7	12	1.1	15	.0	15	1.2	13	.0	15	7.9	13	4.2	14	1.4	13	6.1	13	4.4	14	.0	12	7.8
2	15	.6	15	1.0	15	.2	15	9.3	13	1.6	14	17.8	15	3.4	14	1.2	13	4.7	13	.4	14	.1	11	6.2
3	15	.0	15	.2	15	1.6	15	.0	12	2.9	13	6.6	15	.2	14	2.1	13	1.2	14	.5	14	1.0	11	1.6
4	15	.0	15	.9	15	.0	14	1.3	12	.1	13	6.9	15	.0	14	.0	13	3.6	14	.0	14	.2	13	.1
5	15	.1	15	.5	15	.0	14	.8	12	3.7	13	1.8	15	1.9	14	1.9	13	1.4	14	.4	14	.0	13	.6
6	15	.0	15	.1	15	.0	14	2.7	12	.0	13	23.3	15	3.2	14	1.7	13	.7	14	.7	14	.1	14	2.2
7	15	.0	15	.7	15	.4	15	6.4	12	.5	13	6.5	15	1.4	13	5.4	12	.0	14	3.0	14	.0	14	.2
8	15	.0	15	.5	15	2.1	15	2.8	12	3.8	13	.2	15	.0	14	.6	12	2.1	14	3.1	14	.0	14	.2
9	15	.0	15	4.5	15	.0	15	13.9	12	4.3	13	3.4	15	1.8	14	.0	12	9.0	14	1.2	14	.2	14	.6
10	15	.0	15	3.0	15	.0	15	7.4	12	4.3	13	.5	15	1.0	14	.3	11	.1	13	2.8	14	.7	14	3.7
11	15	.0	15	1.1	15	2.1	14	17.9	12	1.6	14	.3	14	.0	14	.9	12	3.4	13	3.2	14	6.2	14	4.2
12	15	.4	15	.0	15	.0	14	9.4	11	1.9	15	2.7	14	.1	14	.7	12	.4	13	.4	14	4.3	14	.0
13	14	.2	15	.6	15	.2	13	4.6	11	.4	15	.0	14	.0	13	3.1	13	.6	13	.2	14	1.2	14	.0
14	14	.5	15	.2	15	.0	13	4.0	12	8.1	15	1.5	14	.0	13	1.3	14	.2	13	.4	13	3.0	14	.0
15	14	.0	15	.0	15	1.7	13	3.1	13	12.9	15	9.5	13	3.2	13	.3	14	4.7	13	.4	13	9.8	14	1.0
16	14	.0	15	.0	15	2.8	13	.8	12	.6	15	3.8	13	1.7	14	.0	14	1.3	14	8.7	13	3.5	14	.0
17	15	.0	15	.0	15	1.5	13	3.3	12	4.2	15	3.0	13	5.4	14	.5	14	.1	14	1.4	13	1.3	14	.0
18	15	.2	15	.0	15	.0	13	3.9	13	1.3	15	.6	12	4.9	14	.0	14	.3	14	1.2	13	1.7	14	.9
19	15	.0	15	.0	15	.8	13	.8	12	7.3	15	2.2	12	1.2	14	.0	14	2.5	14	6.0	13	2.3	14	.7
20	15	.1	15	.0	15	.3	13	.6	12	1.5	15	.0	13	6.0	14	.6	14	.0	14	2.0	13	3.0	14	.0
21	15	.2	15	8.6	15	.6	13	4.1	13	.5	15	.4	13	1.3	14	1.8	14	.6	14	2.0	14	.0	14	.8
22	15	.5	15	.1	15	.0	13	7.2	14	2.0	15	2.1	13	8.2	13	.0	14	.0	14	1.1	14	.0	14	3.2
23	15	.0	15	.2	15	.1	13	.3	15	6.9	15	.4	13	3.7	13	1.9	14	.5	14	1.0	14	4.8	14	.2
24	15	.0	15	.0	15	1.0	13	8.9	15	.0	15	1.9	13	.3	13	.1	14	1.8	14	.0	14	2.7	14	.0
25	15	.0	15	.0	15	.0	13	12.4	15	2.7	15	3.1	13	.5	13	1.6	14	1.0	14	.0	13	6.1	14	1.2
26	15	.0	15	.0	15	.5	12	3.0	15	.6	15	2.6	13	1.5	12	1.7	13	3.7	14	3.3	13	5.7	13	.0
27	15	.6	15	.0	15	4.2	13	4.6	15	3.9	15	2.5	14	.3	12	1.5	13	6.6	14	.5	13	.2	13	.0
28	14	7.1	15	.0	15	1.6	13	.0	15	2.0	15	2.5	14	.0	12	2.1	13	3.1	14	.6	13	.0	13	.1
29	14	5.8	0	.0	15	1.2	13	.6	14	1.3	15	.9	14	2.7	13	4.5	13	1.4	14	1.5	13	4.2	13	.0
30	14	1.8	0	.0	15	.6	0	.0	14	2.1	0	.0	15	3.2	14	3.3	0	.0	14	2.9	0	.0	13	.0
31	14	20.9	23.1	23.5	137.5	90.9	119.8	61.7	41.2	61.4	66.5	65.5	35.9											



\*\*\*\* 1969 \*\*\*\*

	1	2	3	4	5	6	7	8	9	10	11	12												
1	15	1.8	14	8.6	14	.0	15	.0	14	1.3	14	2.1	14	.7	15	3.1	15	4.5	13	5.8	15	1.0	15	.5
2	14	.1	15	.2	14	3.8	15	.0	15	8.5	14	4.9	13	2.4	15	.5	15	1.5	14	3.6	15	.0	15	.8
3	14	.1	15	.1	14	.1	15	.0	15	.0	14	3.6	13	2.1	15	1.5	14	2.9	14	3.5	15	1.1	15	3.0
4	14	.0	15	.2	14	3.3	15	.0	15	.0	15	1.9	14	.6	15	1.6	14	.0	14	8.8	15	.0	15	.3
5	14	.0	14	10.8	14	1.1	15	2.7	14	.5	15	10.5	14	.5	15	.0	14	.2	15	9.8	15	2.8	15	2.0
6	14	.0	14	2.0	14	.0	15	1.1	14	.1	15	.7	14	1.6	15	1.7	13	1.4	14	24.4	14	16.2	15	1.1
7	14	.0	14	.4	13	.6	15	3.1	14	3.2	15	2.6	14	.1	15	.4	13	2.6	12	1.8	14	2.8	15	.2
8	14	.0	14	.9	13	.0	15	2.2	14	1.3	15	1.9	14	9.4	15	5.9	13	.0	11	4.5	14	5.2	15	.2
9	14	.0	15	.0	13	.0	12	10.5	14	6.8	15	.9	13	1.2	15	.5	13	3.7	10	3.1	14	2.5	15	4.3
10	14	.0	15	4.0	13	.0	12	2.5	14	7.5	15	4.4	13	.1	15	1.2	13	.2	10	2.3	12	2.3	15	2.1
11	14	.0	15	5.1	13	.0	12	2.5	14	2.0	14	1.6	13	.7	15	.1	13	.9	10	.0	13	.6	15	3.6
12	14	.0	15	.1	14	.0	12	7.9	14	.1	14	.5	13	1.8	14	4.6	12	.1	11	5.3	13	3.9	14	2.7
13	14	.3	15	.0	14	1.1	11	15.5	14	.0	14	.0	13	1.0	14	.8	12	.0	11	4.4	13	.1	14	10.5
14	14	4.0	15	.1	15	.8	11	3.9	14	1.2	14	1.8	13	.4	14	2.0	12	1.8	11	1.0	13	2.9	14	7.6
15	13	3.8	15	.6	15	1.2	10	7.2	14	2.6	14	.6	13	.0	14	2.3	12	1.4	11	5.1	13	.0	13	.7
16	13	1.5	15	.0	15	.4	12	14.0	14	2.1	14	.9	14	.5	14	4.8	12	2.9	10	6.8	13	10.8	13	.2
17	13	7.6	15	.0	15	.0	13	9.3	14	2.3	14	1.6	14	.8	15	1.7	12	.9	10	.8	12	11.4	13	.0
18	14	3.6	14	.0	15	.0	13	9.6	14	.3	14	4.0	14	1.9	15	1.5	14	.0	11	.1	12	9.1	14	.0
19	15	1.0	14	.3	15	.0	12	5.5	14	1.4	13	.6	14	.0	15	11.8	14	8.8	12	.6	11	31.6	14	4.4
20	14	3.5	14	.0	15	.0	12	.4	14	1.7	13	.4	13	.0	15	6.2	14	2.2	12	.0	11	9.2	13	.0
21	14	4.9	14	.2	14	.1	12	3.0	14	2.7	14	.6	13	.7	14	1.3	15	5.4	12	1.3	10	6.6	14	.7
22	14	2.9	13	.4	15	.0	12	3.7	14	.3	14	.5	13	.1	14	4.2	14	.4	12	3.8	10	13.2	15	.4
23	13	3.4	13	1.4	15	.0	13	.7	14	1.5	14	.9	13	.0	14	.6	14	2.1	15	8.6	10	1.5	15	1.0
24	13	.6	13	5.6	15	.0	13	15.0	14	2.8	13	2.8	14	1.2	14	1.4	14	4.4	14	6.2	10	.7	15	.0
25	13	.0	13	3.5	15	.0	13	9.5	14	.4	14	.3	13	.8	14	1.4	14	3.5	14	3.6	10	.0	15	1.4
26	13	1.9	14	2.4	15	.4	13	2.0	14	.0	14	.6	13	.3	14	.1	14	6.9	14	3.7	12	.0	15	.0
27	13	.1	14	.5	15	.5	14	1.9	14	.0	14	2.8	13	.2	14	.6	14	1.9	14	3.6	12	.0	15	.4
28	13	.0	14	.9	15	.4	14	.0	14	.1	14	.1	13	.4	15	7.3	14	1.1	14	1.9	13	2.2	15	.8
29	15	.0	0	.0	15	.0	13	.0	14	.0	14	.2	13	.0	15	.2	14	.3	14	.1	13	.0	15	.6
30	15	3.9	0	.0	15	.3	14	2.4	14	.0	14	1.2	15	2.0	15	3.1	14	2.4	15	4.5	15	.4	15	.6
31	15	15.2	0	.0	15	.0	0	.0	14	2.1	0	.0	15	5.8	15	1.6	0	.0	15	.5	0	.0	15	.0
60.3	48.2	14.2	136.0	52.9	55.5	37.5	72.4	64.3	129.4	138.2	50.5													

\*\*\*\* 1970 \*\*\*\*

	1	2	3	4	5	6	7	8	9	10	11	12											
1 18	.0	1.1	1.6	.2	1.7	.0	1.7	2.3	1.8	.9	1.7	2.8	1.8	4.1	1.8	.9	1.8	3.5	1.8	1.9	1.7	.5	
2 16	.6	1.6	1.1	1.8	.0	1.7	1.8	1.8	.8	1.8	.8	4.5	1.8	.0	1.7	3.7	1.8	4.0	1.8	5.4	1.7	.1	
3 17	.6	1.6	.8	1.8	.0	1.7	.3	1.8	1.5	1.8	1.7	1.7	1.8	3.4	1.6	1.0	1.7	12.8	1.7	3.4	1.8	1.7	
4 17	.0	1.7	.1	1.8	.0	1.7	.0	1.8	.1	1.8	.6	1.7	3.4	1.6	4.3	1.7	7.4	1.7	4.7	1.8	4.5		
5 17	.4	1.7	2.9	1.8	1.4	1.7	.0	1.7	1.8	1.8	.0	1.8	.1	1.6	4.1	1.6	1.5	1.7	5.3	1.7	2.3	1.8	.7
6 17	.0	1.6	3.1	1.8	.0	1.7	.4	1.7	.7	1.8	2.3	1.8	.1	1.6	1.8	1.6	.2	1.7	2.0	1.7	1.3	1.8	.8
7 17	.0	1.6	.0	1.8	.8	1.7	.0	1.7	4.1	1.8	.5	1.8	2.2	1.6	.2	1.6	3.0	1.6	2.5	1.7	2.8	1.8	1.8
8 17	.2	1.6	.0	1.8	1.7	1.7	1.7	1.7	.5	1.8	.6	1.8	9.0	1.6	.3	1.6	1.8	1.6	3.1	1.6	4.1	1.8	.3
9 17	1.8	1.6	.0	1.8	.1	1.6	10.4	1.8	2.4	1.8	2.0	1.8	1.9	1.6	1.1	1.8	.0	1.6	.6	1.6	9.0	1.8	9.5
10 17	.0	1.6	2.6	1.8	1.6	1.5	5.3	1.8	1.0	1.7	5.0	1.8	1.0	1.6	.8	1.8	.3	1.8	2.0	1.6	1.1	1.8	1.0
11 17	.1	1.7	1.6	1.8	.5	1.5	1.4	1.8	.5	1.7	2.1	1.8	5.3	1.7	2.4	1.8	.3	1.8	1.7	1.6	2.9	1.8	1.2
12 17	.6	1.6	.0	1.8	.0	1.5	3.4	1.7	3.8	1.7	1.8	1.8	5.6	1.7	1.5	1.7	.0	1.8	2.0	1.6	5.1	1.7	3.2
13 17	1.0	1.5	.0	1.8	.1	1.5	2.8	1.7	.7	1.7	3.1	1.8	2.6	1.7	.4	1.7	.2	1.7	.7	1.7	2.4	1.7	.1
14 16	3.2	1.5	.0	1.8	.0	1.5	.0	1.7	1.4	1.7	3.6	1.8	.0	1.7	1.9	1.7	1.7	1.7	.2	1.7	.5	1.7	2.4
15 16	3.7	1.6	.0	1.8	1.5	1.6	1.2	1.7	3.0	1.7	9.6	1.8	.1	1.8	1.3	1.7	.7	1.7	4.0	1.7	.1	1.6	.8
16 16	2.0	1.5	.0	1.8	2.0	1.6	2.9	1.7	1.6	1.7	.1	1.8	.9	1.7	3.2	1.7	.5	1.7	.0	1.7	1.8	1.5	.0
17 16	.2	1.6	3.2	1.8	.1	1.6	3.8	1.5	12.5	1.7	1.3	1.8	.8	1.7	1.6	1.8	.1	1.7	1.1	1.7	1.7	1.5	1.6
18 16	.0	1.7	.5	1.8	.1	1.6	1.8	1.5	1.7	1.7	.0	1.8	.0	1.7	.9	1.8	4.6	1.7	1.6	1.7	.1	1.5	1.8
19 16	.0	1.8	.0	1.8	.2	1.6	.4	1.4	13.5	1.8	.3	1.8	.5	1.8	1.9	1.8	.0	1.7	2.6	1.7	.2	1.4	3.6
20 15	3.8	1.8	2.1	1.8	.0	1.5	2.8	1.3	2.8	1.8	.0	1.8	2.4	1.8	1.4	1.8	.2	1.7	2.2	1.7	1.3	1.4	3.6
21 17	.7	1.8	1.6	1.8	.0	1.6	2.3	1.3	3.2	1.7	2.6	1.8	3.3	1.8	5.5	1.8	3.0	1.7	.2	1.7	.0	1.4	3.5
22 17	.7	1.8	.6	1.8	.0	1.6	2.4	1.4	4.7	1.7	2.5	1.8	.7	1.8	3.1	1.8	7.1	1.7	1.1	1.7	.0	1.4	3.3
23 17	1.1	1.8	.3	1.7	.4	1.6	1.3	1.5	5.1	1.6	.6	1.8	.2	1.8	.8	1.8	10.0	1.8	.7	1.7	.6	1.4	1.6
24 17	.0	1.8	3.5	1.7	2.5	1.6	2.0	1.6	.2	1.6	.0	1.8	.2	1.8	.7	1.8	3.9	1.8	.2	1.7	.4	1.5	.0
25 18	.1	1.8	3.3	1.7	.2	1.8	.7	1.6	1.1	1.6	.1	1.8	.7	1.8	.2	1.8	2.7	1.8	2.5	1.7	7.5	1.5	.4
26 17	.0	1.8	2.0	1.7	.0	1.8	.1	1.7	.7	1.6	3.0	1.8	1.3	1.8	2.9	1.7	1.0	1.8	7.3	1.7	.3	1.7	.1
27 17	.0	1.7	.1	1.7	.0	1.8	1.9	1.6	8.4	1.6	.7	1.8	5.8	1.8	1.0	1.7	.9	1.7	3.6	1.5	.4	1.7	.6
28 17	.0	1.7	3.2	1.7	.0	1.7	.4	1.7	3.7	1.6	1.9	1.8	3.0	1.8	.3	1.7	4.2	1.7	4.9	1.5	3.0	1.7	4.0
29 17	.1	0	.0	1.7	1.0	1.7	2.0	1.8	4.1	1.6	2.3	1.8	2.6	1.8	.9	1.7	9.0	1.7	12.5	1.5	6.2	1.7	1.0
30 16	3.9	0	.0	1.7	1.6	1.7	.3	1.8	.0	1.6	.2	1.8	1.5	1.8	3.1	1.7	1.8	1.8	1.6	1.6	10.2	1.7	.4
31 16	2.4	0	.0	1.7	.0	0	.0	1.8	.3	0	.0	1.8	1.1	1.8	5.5	0	.0	1.8	2.6	0	.0	1.7	.1
27.4	32.5	24.3	50.3	93.2	49.5	62.3	59.8	68.5	96.4	80.6	54.3												

\*\*\*\* 1971 \*\*\*\*

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

1	20	.0	20	.0	21	2.8	20	.8	19	8.7	19	.7	20	.3	21	2.0	17	6.9	21	6.2	21	5.3	21	.5
2	19	.1	21	4.5	21	.8	19	4.1	19	3.8	19	.5	21	.2	21	.8	19	.9	20	2.6	20	4.3	20	2.9
3	18	6.5	20	10.5	21	.0	18	3.8	19	3.9	20	.4	21	.0	20	.0	20	.5	20	3.5	19	2.0	19	.9
4	19	7.5	19	3.0	21	.1	18	.0	19	1.3	21	.3	21	.2	20	.1	19	11.3	19	.7	19	7.5	19	.1
5	20	7.9	19	9.7	21	1.1	18	.0	21	3.2	21	.4	21	2.0	20	1.0	19	2.7	19	1.3	19	2.7	19	.0
6	20	7.9	19	.3	21	2.8	18	.0	21	1.5	21	.5	21	.3	19	.7	19	.5	19	4.6	20	.5	18	.0
7	20	4.6	19	.4	21	.0	17	.0	20	.3	21	.2	21	2.3	20	3.7	19	5.4	19	.5	19	.1	18	.7
8	19	2.5	19	.5	21	.4	17	.5	19	.9	21	.0	21	.6	19	.7	18	2.7	19	1.9	18	.3	18	1.6
9	20	1.7	19	.0	21	1.1	17	3.4	20	2.6	20	.7	21	1.7	19	.2	18	1.3	19	.1	19	1.2	20	.4
10	20	.5	18	7.3	21	4.8	17	3.4	20	2.2	20	.0	21	2.6	18	4.0	18	2.3	19	.5	20	.8	20	.0
11	20	1.0	18	.5	21	1.3	17	.0	20	2.6	20	.0	21	.3	17	.1	17	4.2	19	3.3	20	4.4	20	.3
12	19	2.0	18	.1	21	.7	17	.7	19	2.8	20	1.4	20	.5	17	4.3	17	.0	19	2.2	20	2.0	19	.0
13	18	4.0	19	.2	21	.8	17	1.4	20	1.2	20	5.6	20	.8	18	10.0	17	.2	19	.4	19	2.2	19	.1
14	18	4.2	20	.5	21	.1	17	1.2	19	9.1	21	.4	20	1.8	18	.5	18	1.3	19	.1	19	.3	19	3.4
15	18	.5	20	.6	21	1.0	19	.7	18	2.8	21	.1	20	.5	18	1.6	19	9.6	19	.0	19	2.7	19	.0
16	18	.2	20	3.0	21	1.2	20	.2	18	2.8	21	.1	19	2.0	17	6.7	20	10.8	19	2.9	20	3.5	18	.1
17	18	.5	20	2.7	21	3.9	20	3.4	18	1.6	21	.3	20	.8	18	5.3	21	.4	20	4.1	20	2.4	18	2.4
18	18	.9	19	3.3	21	9.2	20	3.5	18	6.1	20	2.6	20	.2	19	7.1	21	2.0	20	6.2	20	5.6	18	3.5
19	18	2.2	20	.6	20	2.0	20	4.7	17	5.2	20	.2	20	2.6	19	1.8	20	7.5	20	.9	20	5.3	18	3.8
20	18	1.9	20	.3	20	.6	20	5.1	17	4.8	20	.1	21	1.4	20	.3	20	1.6	20	.1	20	1.3	18	1.0
21	17	2.4	20	1.5	20	1.3	19	4.5	19	.7	20	.0	21	.1	19	2.2	20	3.6	20	1.2	20	1.1	18	.1
22	18	4.4	20	.8	20	4.4	17	3.6	19	6.9	20	7.1	21	.0	18	2.2	21	.1	20	.5	20	1.4	18	5.6
23	20	2.0	20	2.5	20	5.0	16	14.8	19	19.7	19	3.1	20	1.2	18	3.6	20	.0	20	.0	20	.5	18	2.8
24	20	1.1	20	.2	20	3.7	16	.7	19	.3	19	.0	20	4.9	19	2.6	19	.0	20	6.2	20	.2	18	.3
25	20	.9	20	.2	20	1.4	16	2.3	17	4.1	19	.0	20	.3	18	.8	20	.2	19	2.1	20	.2	18	.4
26	20	.0	21	.3	20	3.5	16	1.7	17	.6	19	2.3	20	.3	17	11.0	21	.3	18	9.0	20	3.2	18	3.5
27	20	.0	21	.8	20	.0	16	2.1	17	2.1	19	.6	20	3.6	17	6.1	20	.0	18	2.7	20	.8	18	5.0
28	20	.5	21	4.1	20	.9	18	6.2	18	2.5	19	2.2	20	.8	17	1.2	20	.1	18	1.4	20	.7	19	3.7
29	20	1.9	0	.0	19	4.9	18	7.2	18	.5	19	.8	20	.7	17	.1	20	5.6	18	.6	20	.5	20	1.7
30	21	.8	0	.0	19	1.1	19	3.4	18	1.5	19	.8	21	.8	17	.0	21	3.0	18	.0	20	1.8	20	1.1
31	21	.5	0	.0	19	.3	0	.0	18	4.2	0	.0	21	.3	17	.4	0	.0	18	5.2	0	.0	20	.2

71.1 58.1 60.8 83.2 110.2 31.4 34.0 81.2 85.1 71.0 64.5 46.1

\*\*\*\* 1972 \*\*\*\*

	1	2	3	4	5	6	7	8	9	10	11	12
1	22	.1	.5	.8	.0	.0	1.3	.0	2.0	.3	.9	.0
2	21	.4	.1	5.3	.1	1.1	1.0	.6	.8	3.3	.8	.2
3	22	.2	.0	.4	.0	.9	.3	.0	.5	6.7	9.2	.0
4	22	.8	1.4	.5	.6	1.2	.9	.0	1.0	1.3	5.9	.0
5	22	1.0	3.0	.3	.3	1.2	2.6	.0	.7	.5	9.3	.0
6	22	2.8	3.6	1.6	1.2	.2	2.9	.2	.1	1.4	3.7	.1
7	22	.3	2.7	.7	1.2	2.4	.7	.5	.1	.7	.3	.6
8	22	1.1	.1	2.5	.7	1.1	.8	.3	.7	2.4	.6	6.7
9	22	2.2	3.6	.3	9.5	5.0	.6	.3	.0	2.4	.1	3.9
10	22	.9	5.6	.8	6.8	.0	.0	1.8	.2	1.1	.7	.4
11	22	.5	.7	.0	10.3	.4	.1	1.9	3.1	1.3	.2	.0
12	22	2.4	4.6	.5	8.4	1.3	.3	.1	.0	.5	.7	.3
13	21	4.3	1.4	.1	.7	3.2	.2	1.2	.1	9.9	.0	.3
14	21	4.9	.3	.0	14.7	.9	.3	1.3	.1	1.9	3.4	.9
15	21	5.5	1.1	.0	1.9	4.8	.1	1.6	1.0	2.4	1.2	.8
16	21	.2	.0	.1	3.0	.7	.4	2.3	1.9	.5	1.7	.6
17	21	2.9	.0	.0	15.6	1.7	1.3	2.2	2.8	.0	3.4	.6
18	21	7.8	.0	2.8	3.7	3.5	2.4	.5	1.0	.5	3.4	1.8
19	22	4.7	.1	3.5	6.8	1.4	.3	2.1	1.4	.4	.1	.2
20	22	1.7	.7	3.2	5.7	1.1	2.4	2.9	7.3	1.3	5.8	3.4
21	22	.2	.9	.9	13.7	4.2	1.6	.3	.7	1.9	4.3	.2
22	22	.3	1.0	7.8	3.3	1.9	2.1	6.3	.6	2.7	3.1	.1
23	22	.3	.0	7.1	6.9	.0	.0	.1	.3	1.8	.4	.0
24	22	3.4	.0	3.4	5.4	2.2	.4	2.2	2.0	5.1	.1	.0
25	22	.9	.0	2.9	7.0	2.1	.9	.2	2.6	.4	.1	.1
26	22	3.5	.0	1.8	5.7	.0	1.0	.8	.2	.0	.0	.5
27	22	2.5	.0	2.6	11.5	1.2	.9	.3	1.8	.0	.0	.0
28	22	1.7	2.0	1.3	7.8	.8	2.7	.3	3.9	.1	.9	.0
29	22	.0	1.7	3.5	17.2	.3	.4	1.3	1.6	3.9	1.8	.0
30	22	.0	.0	1.5	11.0	.0	1.5	7.3	.4	3.5	1.0	.0
31	22	1.6	.0	.2	.0	.0	.1	.9	.0	.9	.0	.8
		59.1	35.1	56.6	180.8	78.6	39.3	30.4	39.7	59.3	63.0	22.7

\*\*\*\* 1973 \*\*\*\*

	1	2	3	4	5	6	7	8	9	10	11	12
1	23	.2	.0	.7	.0	.4	2.1	4.9	2.7	.4	2.2	3.4
2	23	.2	.0	.5	2.8	.3	1.6	4.5	.8	1.4	2.2	5.9
3	23	.5	.9	.0	2.5	4.1	.9	2.4	3.3	4.6	2.2	4.3
4	23	.2	1.6	.0	5.2	2.4	.2	2.3	6.1	3.3	2.3	4.0
5	23	.5	.0	.2	3.5	1.8	.4	.3	3.4	6.3	2.2	5.1
6	23	.7	1.0	1.6	2.0	.3	1.8	6.0	3.4	3.6	.2	2.3
7	22	.0	.5	.0	.8	2.1	.9	.5	1.0	9.6	2.1	1.8
8	22	.0	2.2	.4	.3	.8	.1	.5	2.5	1.1	2.1	2.5
9	22	.0	.0	.2	.4	1.3	1.3	.3	1.1	1.9	2.1	8.1
10	22	.0	.0	.7	.9	2.7	1.8	3.2	1.4	1.7	2.1	5.9
11	22	.0	.0	1.9	.3	6.5	2.1	1.0	6.5	4.8	2.1	7.1
12	22	.0	1.2	.9	.1	11.3	1.0	2.9	1.0	.7	2.0	8.7
13	22	.0	1.6	.0	.2	.1	1.3	.2	1.9	.9	2.1	6.3
14	22	2.0	.0	1.2	.2	.3	1.4	5.0	1.7	3.7	2.1	5.9
15	22	.0	1.4	.8	.1	.5	.8	4.9	5.9	1.7	2.1	6.7
16	22	.0	2.2	1.7	.0	.8	1.0	3.2	5.8	5.9	2.0	10.7
17	22	.0	.4	2.2	2.9	.1	6.3	1.6	14.3	3.3	2.0	2.4
18	22	.0	.0	2.4	.4	.9	3.6	.8	5.6	5.7	2.0	3.2
19	23	.0	1.1	1.5	1.2	.8	2.5	.4	1.1	2.0	1.9	5.7
20	23	.1	.0	3.3	.2	.2	1.5	.3	1.9	4.7	1.9	2.8
21	23	.3	.1	3.2	.5	.2	1.3	4.9	.9	2.6	1.9	3.5
22	23	1.0	.3	9.4	.2	2.2	1.8	1.0	1.3	10.1	.4	2.2
23	23	.0	.3	14.5	1.8	2.1	1.9	.4	2.5	1.9	2.2	2.6
24	23	.1	.0	2.2	.2	2.1	.4	.4	2.6	.3	2.3	9.4
25	23	.2	.0	1.7	.3	2.7	3.6	1.7	2.7	.7	2.2	5.7
26	23	.1	.0	2.2	3.4	.1	.7	1.7	4.6	.4	2.2	.2
27	23	.2	.0	2.4	.7	.5	1.1	2.8	.1	1.1	2.2	1.6
28	23	.0	.1	1.0	.4	2.9	2.2	5.9	6.1	1.3	2.2	1.1
29	23	.0	.0	.4	.4	.8	1.1	2.3	2.7	.7	2.2	4.3
30	23	.0	.0	.2	.2	1.9	.9	5.5	.2	.3	2.2	6.2
31	23	.1	.0	.0	.3	.0	2.1	1.7	.0	4.6	.0	.2
		6.2	7.6	24.6	50.0	46.1	60.8	73.5	95.2	91.3	136.8	57.2

\*\*\*\* 1974 \*\*\*\*

	1	2	3	4	5	6	7	8	9	10	11	12												
1 21	1.5	2.0	.1	2.0	1.4	1.9	1.5	1.6	4.5	2.0	1.9	2.0	3.7	2.0	2.0	2.0	8.2	18	4.3	19	1.1	20	6.6	
2 20	2.5	2.0	.1	2.0	3.1	1.9	5.3	1.6	9.2	2.0	.1	1.9	.5	2.0	1.7	1.9	1.0	1.8	6.2	19	2.1	20	2.6	
3 20	2.8	2.0	.1	2.0	5.5	1.9	1.2	1.7	2.3	2.0	.8	2.0	.7	2.0	.8	1.9	1.2	1.8	9.1	19	.3	20	.3	
4 20	.0	2.0	.5	1.9	3.8	2.0	1.6	1.8	4.9	2.0	.0	2.0	.5	2.0	.2	1.9	.1	2.0	3.2	19	4.8	20	1.4	
5 21	.3	2.0	.7	1.8	.4	1.9	1.0	1.7	12.6	2.0	.3	2.0	.7	2.0	.3	1.9	2.6	2.0	1.4	20	5.8	20	1.0	
6 21	.3	2.0	2.5	1.8	1.5	1.9	.1	1.7	.9	2.0	1.0	2.0	.2	2.0	1.2	1.9	1.7	2.0	4.3	20	2.4	20	.1	
7 21	1.1	2.0	.4	1.7	3.0	1.9	1.0	1.7	2.8	2.0	.3	2.0	.2	2.0	1.3	2.0	5.2	1.9	2.3	20	3.2	20	1.1	
8 21	1.6	2.0	.0	1.7	3.4	1.8	.6	1.7	2.9	2.0	.4	2.0	.2	2.0	.3	2.0	2.5	1.8	6.6	20	3.1	20	.9	
9 21	.7	2.0	.0	1.7	1.9	1.8	2.8	1.8	.3	2.0	.0	2.0	1.1	2.0	2.1	2.0	.4	1.8	2.8	20	6.5	20	.2	
10 21	3.6	2.0	.5	1.7	.9	1.6	3.9	1.8	1.5	2.0	.0	2.0	.1	2.0	1.3	2.0	3.2	1.8	2.3	19	.5	20	.5	
11 21	.0	2.0	1.6	1.7	.1	1.6	4.7	1.8	3.5	2.0	2.5	2.0	2.9	1.9	.9	2.0	3.7	1.8	.0	18	.2	20	.5	
12 21	.0	1.9	.5	1.7	.2	1.6	.3	1.8	1.9	1.9	.2	1.9	4.1	2.0	2.0	1.9	2.1	1.7	.4	18	2.1	20	.0	
13 21	.7	1.9	1.3	1.7	.1	1.6	.0	1.9	1.2	1.9	.3	1.9	1.1	1.9	2.0	1.9	.9	1.7	1.0	1.8	1.4	20	.1	
14 20	2.4	1.9	1.7	1.8	.0	1.5	1.6	1.9	1.5	1.9	3.5	1.9	.1	1.8	5.3	1.8	.1	1.7	2.1	1.7	2.5	20	.8	
15 20	.2	1.8	7.5	1.8	.6	1.5	1.0	2.0	4.0	1.9	1.2	1.9	.0	1.8	.7	1.8	3.1	1.7	.9	1.8	1.3	20	.5	
16 20	.0	1.8	3.7	1.8	2.7	1.5	.7	2.0	1.6	1.9	.5	1.9	1.0	1.8	.4	1.8	1.2	1.7	.7	1.8	.1	20	2.6	
17 20	1.7	1.8	1.3	1.8	5.4	1.5	.6	2.0	.1	1.9	.2	1.9	.2	1.9	.3	1.8	1.3	1.7	7.0	17	3.5	19	2.0	
18 20	4.1	1.8	.1	1.9	1.5	1.5	.9	2.0	.1	1.9	4.2	1.8	2.2	1.9	1.9	1.9	6.1	1.7	3.5	17	5.6	19	.0	
19 20	1.1	1.9	2.1	1.9	.0	1.6	.5	2.0	.3	1.9	3.0	1.8	.5	1.9	1.5	2.0	5.4	1.7	.1	17	3.8	19	.9	
20 21	.1	1.9	.0	1.9	.3	1.7	.1	2.0	.9	1.9	.3	1.8	.0	2.0	.2	2.0	.3	1.7	.6	17	1.1	19	.9	
21 21	.7	2.0	.5	1.9	.4	1.7	2.8	1.9	6.7	1.9	.7	1.8	1.2	2.0	.1	2.0	1.2	1.7	.0	19	.7	19	1.6	
22 21	.2	2.0	.0	1.9	.0	1.7	5.0	1.9	3.1	1.9	.6	1.8	3.2	2.0	.3	2.0	1.2	1.7	.8	19	5.2	19	.2	
23 21	.0	2.0	.0	1.9	.0	1.8	4.8	1.9	11.0	1.9	1.8	1.8	6.2	2.0	4.9	2.0	1.1	1.6	1.7	1.9	1.7	19	2.0	
24 21	1.7	2.0	.3	1.9	.2	1.8	1.0	2.0	2.7	1.9	.4	1.8	1.6	2.0	.2	2.0	5.0	1.7	7.5	19	3.6	19	.2	
25 21	2.3	2.0	1.7	1.9	.1	1.6	.6	2.0	1.2	1.9	.1	1.8	3.2	2.0	1.3	2.0	6.7	1.7	3.1	19	.2	19	.0	
26 20	3.8	2.0	.5	1.8	2.3	1.6	7.3	2.0	.0	2.0	4.2	1.8	.8	2.0	.0	2.0	1.8	1.7	.5	19	8.7	19	.0	
27 20	1.5	2.0	.0	1.8	1.1	1.5	.9	2.0	.1	2.0	4.3	1.9	5.0	2.0	3.3	2.0	.4	1.7	4.9	19	.4	19	.2	
28 20	.1	2.0	1.4	1.8	3.2	1.5	3.6	2.0	.0	2.0	1.0	1.9	2.7	2.0	1.4	1.9	5.7	1.7	.1	19	1.1	19	.2	
29 21	.2	0	.0	1.9	1.7	1.6	6.9	2.0	.4	2.0	.8	1.9	.0	2.0	1.4	1.9	.9	1.7	4.7	19	.6	19	.0	
30 21	.9	0	.0	1.8	2.0	1.7	4.1	2.0	.8	2.0	1.2	1.9	4.0	2.0	.5	1.9	.6	1.8	9.7	20	2.5	19	.0	
31 21	1.7	0	.0	1.9	.5	0	.0	2.0	3.2	0	.0	2.0	1.0	2.0	3.3	0	.0	1.8	10.4	0	.0	19	.1	
	37.7	28.9	47.2	66.5	86.2	35.7	48.9	43.1	75.0	102.5	76.0	27.7												

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	1	2	3	4	5	6	7	8	9	10	11	12												
1	23	.1	23	.0	22	4.1	23	1.7	21	2.8	22	1.2	22	5.9	23	.9	22	2.4	23	.1	23	4.7	22	1.1
2	23	.3	23	.0	22	3.8	23	2.3	21	2.8	22	1.7	22	2.4	23	3.3	21	8.7	23	.9	22	1.9	22	.2
3	23	1.7	23	.0	22	2.4	23	6.7	20	6.7	22	.3	22	4.5	23	1.0	20	3.9	23	1.5	21	1.5	22	.4
4	23	.0	23	.0	22	3.6	23	.4	19	2.5	22	.1	21	4.3	23	.9	18	6.3	22	7.6	20	2.8	22	3.9
5	23	.0	23	.6	22	.9	23	.1	18	12.1	22	3.6	21	4.6	23	4.7	18	6.0	22	1.4	20	2.2	22	6.3
6	23	.2	22	.2	23	1.1	23	.1	17	2.1	21	3.3	22	3.1	22	1.1	18	3.8	21	9.3	20	.8	21	5.2
7	23	1.0	22	.0	23	.0	23	.1	16	2.2	20	5.1	22	3.0	22	.9	18	.9	21	5.1	20	4.5	21	6.7
8	23	1.9	22	.0	23	.0	23	.1	15	5.0	20	2.7	21	.1	22	.8	18	3.0	21	.1	20	4.1	21	3.8
9	23	.0	22	.1	23	.9	23	.1	17	9.2	19	1.5	21	1.3	22	.5	20	2.2	21	.6	19	3.3	21	.7
10	23	.0	22	.9	23	.5	23	.2	17	.6	19	.0	20	.3	21	1.2	19	5.7	21	5.3	18	4.7	21	.3
11	23	.0	22	.1	23	.0	23	.6	17	2.3	19	.0	20	1.1	20	.8	20	.0	21	3.7	17	1.4	21	1.9
12	23	.0	22	.0	23	.0	23	.0	17	1.8	19	.2	20	3.6	20	.0	20	.2	20	5.7	17	3.1	21	.3
13	23	.0	22	.2	23	.0	22	.0	19	.4	21	.7	20	2.9	20	3.8	21	4.6	20	1.2	17	2.2	21	.3
14	23	.1	22	.0	23	.0	22	.8	20	2.2	21	2.5	20	3.6	20	8.0	22	2.2	21	5.7	18	2.0	21	3.5
15	23	.8	22	.2	23	.0	22	.8	20	.5	21	.5	20	5.8	20	2.5	21	1.5	22	6.3	18	6.6	20	2.6
16	23	.3	21	.9	23	.0	22	.0	20	.4	21	1.0	23	.8	21	2.6	22	.0	22	5.2	17	1.9	19	14.4
17	23	.8	21	.1	23	.1	22	.2	20	2.7	21	1.0	23	1.2	21	1.6	22	4.2	22	4.3	19	3.4	18	10.9
18	23	.1	21	.9	23	.2	22	.1	20	.8	21	.1	23	.4	20	1.7	22	1.3	22	.5	18	2.2	17	6.1
19	23	.0	21	7.0	23	.0	21	1.1	21	1.2	21	.8	23	.4	19	.4	22	4.7	22	.2	19	.9	16	4.0
20	23	.0	21	1.5	23	.8	21	.3	21	.5	21	.1	23	2.0	19	1.8	22	5.4	22	.4	20	.0	17	4.4
21	23	.1	21	.7	23	2.5	21	1.1	22	1.3	21	.5	23	.1	19	.0	21	2.1	23	.7	21	1.4	17	8.3
22	23	2.1	22	.1	23	2.0	21	5.0	22	4.2	21	1.1	23	.0	19	2.9	21	4.0	22	2.2	21	3.7	17	3.0
23	23	.4	22	.0	23	1.1	21	4.8	22	5.1	21	5.4	23	.0	20	.1	21	4.2	22	1.6	21	3.7	17	6.1
24	23	2.7	22	1.4	23	2.1	22	.4	22	1.0	21	.5	22	.3	20	.3	21	6.9	22	1.0	20	6.0	18	.7
25	23	.4	22	3.9	23	1.4	22	1.5	22	2.1	22	.2	21	1.0	20	1.9	21	3.9	22	2.8	20	5.7	18	1.5
26	23	.3	22	2.4	23	3.5	22	16.0	22	1.1	22	4.7	20	2.0	19	.3	22	1.4	22	2.3	21	4.3	17	1.1
27	23	.0	22	1.4	23	.1	22	.8	22	3.6	22	1.1	21	.6	20	4.1	23	.8	22	6.2	23	1.0	17	1.7
28	23	.0	22	2.6	23	.0	22	5.5	21	.3	22	1.8	21	1.1	20	6.7	23	1.6	21	3.5	23	2.5	18	4.1
29	23	.2	0	.0	23	.7	22	8.6	22	2.5	22	.3	21	1.1	21	2.1	23	2.5	21	7.6	23	3.7	18	.4
30	23	.0	0	.0	22	.1	22	5.2	22	1.2	22	.8	22	.8	21	.9	23	.4	21	4.0	23	3.1	18	.0
31	23	.0	0	.0	23	.5	0	.0	21	1.3	0	.0	23	1.9	22	4.1	0	.0	21	4.3	0	.0	20	.1
13.5		25.3		32.5		64.6		82.3		42.8		60.1		62.0		94.9		101.1		89.5		104.0		

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	1	2	3	4	5	6	7	8	9	10	11	12												
1	23	.3	.0	22	1.0	22	1.3	21	3.6	23	1.2	23	.2	23	.4	22	.0	23	4.5	23	1.6	23	.1	
2	23	.0	23	.0	22	1.6	22	.0	21	3.8	22	3.6	22	.3	23	1.9	22	.0	23	5.7	22	3.2	23	.0
3	22	.1	23	.1	22	2.0	22	.0	20	7.0	22	2.4	20	.8	23	.4	22	1.6	23	4.9	21	3.3	23	1.0
4	22	.1	23	.9	22	4.6	22	.3	20	4.7	21	2.5	20	1.5	23	5.3	22	1.7	23	.2	20	4.1	23	1.1
5	23	.4	23	1.6	22	6.8	22	.0	20	1.0	21	.6	20	1.8	23	1.7	22	.5	23	3.8	20	9.3	23	.5
6	23	.9	23	.1	21	5.9	22	3.5	20	3.5	21	1.1	20	1.6	23	.0	22	1.2	22	5.6	20	2.3	23	.4
7	23	.7	23	.1	19	7.9	21	2.1	20	2.3	21	.1	21	1.9	23	.0	21	1.3	20	12.2	20	.3	23	.7
8	23	.1	23	.0	19	2.9	20	1.9	19	.6	21	1.1	21	1.1	23	.8	22	.9	20	1.2	20	1.1	23	3.0
9	23	.7	23	.3	19	.0	20	1.2	19	3.1	21	.3	21	.0	23	.5	23	.0	20	3.9	20	.2	23	2.9
10	23	.3	23	2.1	19	.0	20	4.4	19	1.1	21	1.7	21	.0	23	.1	23	.3	20	1.6	19	4.5	23	.0
11	23	.5	23	13.0	19	1.3	20	4.8	19	.8	22	.3	21	1.9	23	.3	23	.0	20	10.6	19	.3	23	.5
12	23	.0	23	2.9	20	3.6	20	2.2	21	.0	23	2.4	21	.9	23	.9	23	.0	20	2.3	19	2.3	23	.3
13	23	.0	23	5.1	20	2.6	21	2.4	21	.7	21	2.1	21	2.3	23	.3	23	.2	20	.6	19	3.3	23	.0
14	22	.2	23	3.3	20	2.0	21	.3	21	.1	21	3.8	21	4.1	23	.3	23	.2	21	1.2	19	3.3	23	.1
15	22	.4	23	4.0	20	.2	22	3.8	22	.0	21	.4	22	.1	23	.2	23	.0	21	.9	19	.0	23	1.1
16	22	.4	23	2.4	19	.2	21	3.2	22	.4	21	1.7	22	.4	23	3.3	23	.3	21	.0	19	.0	23	.3
17	20	1.2	22	1.0	19	.0	20	6.6	21	2.2	21	3.1	22	.1	23	2.3	22	.2	21	.0	22	.8	23	.2
18	20	1.2	22	.1	19	1.0	20	3.3	21	9.8	22	.1	22	.2	23	5.8	22	.0	20	3.4	23	1.5	23	.5
19	20	2.5	22	.4	19	3.8	20	2.3	21	1.6	22	1.4	22	.9	23	.5	22	.0	19	2.3	23	.1	23	.2
20	20	2.8	22	.2	20	7.3	20	6.2	21	.7	23	2.1	21	3.3	22	6.6	22	2.0	19	.9	23	.0	23	.0
21	20	.2	23	.8	20	4.9	20	1.0	21	2.5	22	.4	21	.5	22	1.9	22	.3	20	.2	23	.2	23	.7
22	20	.0	23	2.1	20	2.2	20	2.7	21	.1	22	.4	21	1.3	22	.0	22	.0	19	1.2	23	.7	23	2.2
23	20	.3	23	3.6	21	3.0	20	.2	20	1.0	22	.2	22	1.2	22	7.9	22	.4	19	4.4	23	.1	23	.0
24	20	.4	23	3.0	21	6.7	22	2.7	20	.2	22	.5	22	.0	22	.8	22	8.0	19	3.2	23	.5	23	.0
25	21	.0	23	2.7	21	1.5	22	6.5	20	1.9	22	.9	22	.2	22	1.3	22	14.7	19	8.2	23	.2	23	.0
26	21	.0	23	.1	22	1.0	22	.3	20	.9	22	.7	22	6.1	22	3.3	22	4.9	20	6.7	23	.0	23	.4
27	21	3.2	23	.4	22	.0	21	3.2	20	5.0	22	.7	22	2.9	23	.2	21	.4	20	4.9	23	.0	23	.0
28	22	6.1	23	.2	22	.8	21	.6	21	1.6	22	.8	22	.0	23	3.0	21	10.9	22	7.1	23	.0	23	.1
29	23	.6	23	1.5	22	.4	21	3.3	22	.1	22	3.6	22	.2	23	.2	21	4.6	22	.2	23	2.4	23	.0
30	23	.4	0	.0	22	.2	21	2.2	22	5.3	22	3.9	22	1.4	23	1.1	21	4.1	22	2.1	23	4.0	23	.0
31	23	.2	0	.0	22	.0	0	.0	22	2.3	0	.0	23	.0	23	.5	0	.0	22	20.3	0	.0	23	.0
	24.2	51.9	75.2	72.2	68.1	44.2	37.2	52.1	58.5	124.5	49.9	16.4												



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	1	2	3	4	5	6	7	8	9	10	11	12												
1	23	.0	.2	.23	.0	.23	.1	.23	3.6	23	4.2	21	3.1	23	1.6	22	.5	23	2.5	23	1.2	23	.0	
2	23	.0	.23	.1	.23	.3	.23	.7	.23	6.3	21	4.0	22	1.3	22	.2	23	6.3	23	6.3	23	1.6	23	.0
3	23	.0	.23	.0	.22	.3	.22	2.1	.22	.0	.23	1.8	21	.0	.22	.3	.23	1.2	.22	3.6	23	.2	.2	
4	23	.0	.23	.0	.22	.4	.22	.0	.23	.9	.21	.5	.21	1.6	.22	.5	.23	4.2	.22	3.5	23	.7	.7	
5	23	.0	.23	.0	.22	.0	.22	4.8	.23	.3	.21	.3	.21	.8	.23	4.9	.23	4.5	.22	1.3	23	.0	.0	
6	23	.0	.23	.0	.22	.7	.22	2.1	.22	1.1	.23	2.1	.21	.6	.23	.0	.23	.6	.22	1.0	23	.0	.0	
7	23	.0	.23	.0	.22	.2	.22	.8	.22	2.7	.23	.8	.21	1.4	.23	.0	.23	1.4	.22	3.3	23	.0	.0	
8	23	.0	.23	.1	.22	.0	.22	1.4	.22	.1	.20	2.6	.21	6.3	.23	.1	.23	3.8	.22	3.7	23	.1	.1	
9	23	.0	.23	.1	.22	.1	.22	1.9	.21	.3	.20	.2	.21	.6	.23	1.3	.23	1.3	.22	4.1	23	1.9	1.9	
10	23	.0	.23	.0	.22	.5	.22	.0	.21	.5	.20	2.4	.20	5.1	.22	1.5	.22	12.9	.22	2.4	23	.8	.8	
11	23	.0	.23	.0	.22	.3	.21	1.5	.19	4.2	.20	1.0	.21	.3	.23	5.3	.23	1.4	.22	1.8	23	.0	.0	
12	23	.9	.23	.2	.22	.0	.20	2.7	.22	.4	.19	.0	.22	1.2	.23	.5	.22	6.4	.21	.8	23	.0	.0	
13	23	.4	.23	.5	.22	.0	.20	7.2	.22	.0	.19	2.5	.21	3.0	.22	1.6	.22	.1	.21	10.9	23	.3	.3	
14	23	.0	.23	.1	.22	1.3	.20	.1	.22	4.6	.19	1.3	.22	.2	.20	1.5	.22	1.0	.22	.8	21	3.3	.8	
15	23	.0	.23	.0	.22	2.1	.21	.2	.21	9.5	.19	.0	.22	.1	.21	4.0	.22	4.2	.22	1.4	21	2.1	.3	
16	23	.0	.23	.0	.22	4.7	.21	.0	.21	12.2	.19	.4	.22	1.5	.21	2.1	.22	.0	.22	.6	21	2.6	.4	
17	23	.0	.23	.0	.20	1.3	.21	.8	.20	4.5	.19	.7	.22	1.7	.22	3.5	.21	.3	.22	1.7	20	1.1	.0	
18	23	.0	.22	.3	.20	1.8	.21	.0	.20	1.0	.19	1.0	.22	.1	.22	1.7	.21	1.1	.22	3.8	20	1.8	.0	
19	23	.6	.22	.3	.20	.4	.21	.1	.20	1.1	.19	.7	.22	2.4	.22	4.9	.21	3.1	.22	3.4	20	.5	.0	
20	23	1.2	.22	.1	.20	.0	.21	.0	.20	1.7	.20	.9	.22	2.7	.23	2.7	.20	4.4	.22	2.0	20	2.0	.0	
21	23	9.6	.22	.0	.20	.0	.21	.5	.20	2.8	.20	3.5	.22	.1	.23	1.9	.19	7.6	.23	.0	20	.8	.0	
22	23	.6	.21	.0	.20	.0	.21	1.2	.21	2.5	.21	.1	.22	.1	.22	3.4	.19	.4	.23	1.1	21	1.7	.0	
23	23	.7	.21	.0	.20	.0	.20	.5	.21	7.4	.21	.4	.22	.0	.22	.0	.19	6.6	.23	1.6	.22	1.5	.0	
24	23	.0	.21	.1	.20	1.1	.21	.6	.21	.2	.21	.2	.22	.1	.22	.0	.18	.0	.23	.0	.22	3.5	.0	
25	23	.0	.21	.0	.22	.0	.20	.0	.20	2.4	.21	.5	.22	1.1	.22	.2	.18	1.4	.22	1.1	.22	.1	.0	
26	23	.0	.21	.0	.22	.2	.20	.9	.20	.5	.21	3.3	.21	1.9	.22	1.9	.17	4.2	.22	3.6	23	.0	.2	
27	23	.3	.22	.0	.22	.8	.21	2.3	.20	4.7	.21	.1	.20	2.6	.22	1.5	.19	9.1	.21	7.0	23	.0	.1	
28	23	.7	.23	.2	.22	5.3	.21	1.2	.19	4.0	.23	.5	.20	3.1	.22	.1	.19	1.2	.20	6.4	23	.3	2.1	
29	23	.0	.0	.0	.22	5.0	.21	2.0	.21	3.7	.23	6.0	.20	1.2	.22	.1	.22	3.2	.21	2.2	23	.0	2.1	
30	23	.1	.0	.0	.21	9.9	.22	1.3	.21	.0	.23	.3	.20	.2	.22	.2	.22	1.2	.21	19.1	23	.0	.7	
31	23	.5	.0	.0	.22	5.4	.0	.0	.21	.3	.0	.0	.20	6.3	.22	.9	.0	.0	.21	1.7	.0	.0	.0	
15.7	2.1	39.4	29.5	77.9	50.4	42.1	54.1	65.7	106.1	60.6	10.7													

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	1	2	3	4	5	6	7	8	9	10	11	12												
1	24	.0	24	.1	24	2.1	23	.0	23	3.1	22	5.1	24	.7	24	1.1	24	1.1	24	.1	24	10.8		
2	24	.0	24	.0	24	1.7	24	2.8	23	.9	22	1.9	24	2.0	24	.2	24	.9	24	.4	24	.0		
3	24	.0	24	.0	24	4.7	21	10.1	22	2.6	21	1.8	23	.5	24	.1	24	4.4	24	.1	24	.1		
4	24	.0	24	.0	24	2.0	22	6.3	22	1.1	22	3.0	23	.1	23	1.9	24	1.0	24	.1	24	3.0		
5	24	.0	24	.1	24	7.7	21	10.2	23	6.5	22	2.4	23	.2	23	.8	24	2.5	24	1.0	24	2.6		
6	24	.7	24	.0	24	3.6	20	4.3	23	2.6	21	4.3	23	.3	23	1.1	23	.9	24	1.5	24	5.4		
7	24	.0	24	4.9	24	1.7	21	1.9	23	.7	21	.5	23	.2	23	2.6	23	1.9	23	.3	24	.1	21	.3
8	24	.1	24	2.3	24	.1	21	6.0	23	.2	22	2.5	23	.3	23	1.9	23	2.9	23	4.5	24	1.1	21	2.6
9	24	.0	24	4.8	24	.0	21	2.8	23	3.7	21	5.1	23	1.6	22	3.4	23	2.1	23	12.4	24	2.5	21	1.1
10	24	.0	24	.0	24	.0	20	3.5	22	3.7	21	.4	23	2.0	22	1.1	24	2.4	22	.8	24	9.5	21	1.3
11	24	3.4	24	1.1	24	.0	20	4.5	22	5.0	21	1.9	23	.9	22	3.5	24	1.5	22	2.1	24	1.6	21	1.8
12	24	1.1	24	.2	24	.0	20	1.1	22	.8	21	6.7	24	2.6	22	.1	24	2.7	21	2.3	24	3.5	20	2.9
13	24	.0	24	.5	24	.0	19	4.6	22	1.4	22	1.3	24	.2	24	1.4	24	1.1	21	3.3	24	1.1	22	5.5
14	24	.0	24	1.9	24	.0	20	2.7	22	7.3	23	2.6	24	3.5	24	5.4	23	2.0	21	4.4	23	2.9	23	1.6
15	24	.0	24	.4	24	.0	23	2.5	22	1.6	23	.7	24	1.1	24	.7	22	3.8	21	5.6	23	2.5	23	.0
16	24	.0	24	.3	23	.0	23	5.2	21	4.3	23	1.5	22	.4	24	1.2	20	4.7	21	5.5	23	1.9	23	.0
17	24	.0	24	.0	23	.0	23	6.7	22	.4	23	.4	22	2.5	24	.2	20	.2	22	.5	24	2.1	23	.1
18	24	.1	24	.0	23	1.7	22	7.2	22	.6	23	1.4	22	2.3	24	.4	20	1.7	23	.7	23	3.3	23	8.0
19	24	.0	24	.0	23	1.0	21	10.2	22	2.5	23	.3	22	.9	24	.1	21	.5	23	1.3	23	.1	23	3.5
20	22	.0	24	.0	23	.1	21	8.1	22	1.9	23	1.4	22	2.7	24	1.1	21	.4	23	.8	23	.2	23	.4
21	22	.0	24	.0	23	.0	21	4.8	22	.6	23	2.0	22	.5	24	.5	21	1.0	24	3.8	23	.2	24	.0
22	22	.0	24	.0	23	.1	21	6.9	22	1.3	24	6.3	22	1.4	24	.6	22	.4	24	2.7	24	1.6	24	.0
23	22	.0	24	.3	23	2.3	21	4.1	22	.3	24	3.0	23	.3	24	2.2	22	.2	24	3.1	24	.8	24	.4
24	22	.2	24	2.2	23	1.3	20	2.6	22	.7	24	.7	23	.0	24	1.1	22	2.7	24	3.2	24	.9	24	.2
25	22	1.0	24	.0	22	6.5	21	5.5	22	2.8	22	2.6	23	1.4	24	.8	22	3.5	24	4.9	24	1.7	24	.0
26	22	.4	24	.0	22	4.5	21	1.5	23	5.7	22	3.2	23	6.4	24	.3	22	7.8	24	7.8	24	1.3	24	.0
27	22	1.3	24	.1	22	3.5	21	.3	23	.5	23	4.9	23	1.4	24	2.9	23	7.0	24	1.3	24	5.0	24	.3
28	23	1.1	24	.8	22	1.2	23	.9	23	3.4	22	1.0	22	1.5	24	3.1	22	.9	24	2.0	24	.1	24	.0
29	23	3.9	0	.0	23	12.4	23	2.0	23	1.6	22	3.3	22	.1	24	5.3	23	3.3	24	.1	24	.3	24	.0
30	23	1.0	0	.0	24	.1	23	2.2	22	6.4	23	5.0	22	.6	24	3.6	23	.4	24	1.4	24	4.2	24	.2
31	24	.0	0	.0	24	9.8	0	.0	23	.9	0	.0	22	1.0	24	1.4	0	.0	24	3.2	0	.0	24	.7
14.1	19.9	67.0	133.7	72.1	75.4	43.8	49.4	65.8	82.1	49.6	52.5													

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	1	2	3	4	5	6	7	8	9	10	11	12												
1	20	.2	21	.0	21	2.1	20	.0	21	.4	21	1.3	21	.1	21	6.8	18	7.1	21	1.4	21	5.2	21	.6
2	20	.8	21	.5	21	.1	20	2.6	21	.2	21	.3	21	2.4	21	.2	18	2.1	21	2.0	21	.6	21	.3
3	20	1.4	21	.4	21	3.1	20	5.4	21	.4	19	2.0	20	4.8	21	.3	17	3.5	21	1.4	21	2.4	21	.3
4	20	.5	21	.0	20	.3	20	.0	21	.8	18	1.1	19	.4	21	1.5	17	3.9	21	.3	21	6.3	21	.0
5	20	.3	21	.0	20	2.3	20	4.4	21	.1	17	1.7	19	.2	21	.1	18	8.2	21	1.8	21	7.3	21	.0
6	20	1.1	21	.0	19	2.0	19	1.5	21	2.6	17	2.5	19	5.4	21	1.8	19	1.3	21	.1	21	1.8	21	.3
7	20	.2	21	.0	19	.1	19	4.5	21	.0	17	9.2	19	.1	21	1.2	19	.8	21	4.1	21	2.7	19	.5
8	20	.0	21	.0	19	2.4	19	3.1	21	.0	15	4.5	19	.0	21	.0	19	.6	21	1.0	21	14.6	19	.9
9	20	.2	21	.0	20	1.0	18	7.3	21	3.9	15	9.5	19	.1	21	1.1	19	.1	21	.1	21	1.2	19	.2
10	20	.5	21	.0	20	.4	17	1.2	21	4.1	15	1.7	20	.8	21	.1	19	1.5	20	4.0	21	2.6	19	2.0
11	20	.0	21	1.2	20	.0	18	.8	21	7.5	16	.6	20	.6	21	.2	19	.1	20	.6	20	.4	18	2.9
12	20	.0	21	3.2	20	.0	19	.1	21	1.0	17	.7	20	.2	20	.0	19	3.3	19	2.7	19	7.2	18	.0
13	19	.0	21	.0	20	.1	19	.6	20	1.9	19	.8	20	6.9	19	.5	19	4.0	19	4.2	20	.7	18	.0
14	19	.0	21	.0	20	2.9	19	.2	20	1.6	18	2.6	20	3.3	19	2.4	19	1.3	18	.5	20	10.5	17	2.2
15	19	1.9	21	3.2	20	1.6	18	2.3	20	2.7	20	1.3	20	6.9	20	8.2	21	2.3	17	9.5	20	5.9	17	2.7
16	19	.3	21	.8	21	3.9	17	.8	19	6.6	20	4.2	20	1.9	20	2.6	20	2.8	17	4.4	20	6.8	17	2.3
17	20	1.6	21	1.2	21	4.4	20	2.4	16	9.8	20	3.2	20	.2	20	.9	20	.6	17	5.6	19	7.4	17	2.2
18	20	.4	20	.9	21	1.5	20	.0	16	9.5	19	3.3	20	4.5	20	4.3	20	6.4	20	3.9	18	2.0	17	4.8
19	20	.4	20	.0	21	.1	21	3.0	14	.5	19	.2	20	5.5	19	.3	20	2.9	21	4.9	17	4.2	17	6.9
20	20	.0	20	.0	21	.0	21	.0	21	8.7	14	8.4	19	.4	20	.3	19	.0	19	1.9	20	7.7	17	3.7
21	20	.0	20	.0	21	.1	21	.6	14	5.9	20	3.0	20	.1	20	1.9	20	.0	20	2.5	17	10.5	18	.6
22	20	.0	21	.0	21	.8	21	4.1	13	17.9	19	1.2	20	.3	19	.8	20	3.5	20	14.1	17	.3	19	.0
23	20	.0	21	.0	20	4.4	19	11.3	16	.8	18	2.2	20	.8	19	2.1	20	2.6	20	3.6	18	.1	19	12.5
24	19	.4	21	.0	20	1.6	19	.4	18	3.8	18	1.0	20	.2	18	.9	20	1.4	20	9.3	18	2.0	19	1.1
25	19	.1	21	.0	20	.8	19	4.5	19	1.2	18	3.8	20	4.6	18	2.7	20	.1	20	1.9	18	2.4	19	1.8
26	19	.0	21	.0	20	2.4	19	9.6	21	.0	17	.8	20	.4	18	1.9	20	.1	20	2.6	18	1.6	19	.8
27	19	.0	21	1.4	20	4.8	19	4.3	20	1.2	18	.1	21	.0	18	2.1	21	.0	20	1.3	19	.6	20	.0
28	19	1.0	21	.7	20	.4	20	8.8	20	1.1	19	.6	21	.0	20	2.9	21	1.0	20	1.9	19	.1	21	.1
29	19	.3	0	.0	20	3.6	18	4.5	19	2.8	19	.9	21	1.4	21	1.0	21	.4	20	3.1	19	.3	21	.2
30	19	.7	0	.0	20	1.5	20	3.2	20	5.6	21	.3	21	.3	21	3.3	21	2.1	21	8.1	21	.1	21	5.7
31	19	.0	0	.0	20	.8	0	.0	20	.0	0	.0	21	.8	21	9.5	0	.0	21	.7	0	.0	21	3.1
12.1		13.5		49.3		100.5		102.4		65.1		53.3		61.5		66.0		66.0		109.3		111.6		58.0

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	1	2	3	4	5	6	7	8	9	10	11	12								
1	23	.0	.8	.23	.1	.22	.1	.23	.3	.23	1.5	.23	9.5	.23	.0	.23	.1	.23	.5	
2	23	2.8	23	1.4	23	.0	.22	.0	.21	1.4	22	7.2	23	1.7	23	2.2	21	2.7	23	2.4
3	23	.9	22	.8	23	.0	.21	.4	22	.6	23	1.5	23	4.5	22	2.0	23	.0	23	.1
4	22	1.2	21	.0	23	1.0	22	.0	.21	.5	22	.5	23	1.9	23	.1	22	7.4	23	.6
5	21	.0	22	4.4	23	.4	22	.6	21	.0	22	1.6	23	.0	23	1.4	21	4.9	22	1.1
6	21	.1	22	2.1	23	.0	.22	.1	.21	.0	22	1.3	23	.1	23	1.0	21	.3	23	.0
7	21	.0	22	.0	23	.1	22	5.8	22	4.9	23	2.3	23	1.0	22	1.3	20	1.0	23	.0
8	22	.8	23	.8	23	.2	22	7.2	22	.5	22	.5	23	.9	22	11.7	20	.0	23	1.1
9	22	.1	23	.2	23	.0	22	.6	23	8.2	22	.1	23	.0	22	3.8	20	1.9	23	.2
10	21	.1	23	.1	23	.0	22	.0	.23	3.5	22	1.4	23	.8	22	.0	21	.1	23	.5
11	22	.3	23	.0	23	.0	22	.0	.23	.5	22	.4	23	3.8	22	.1	20	3.4	23	.6
12	22	.4	23	.0	23	.0	22	.4	23	.0	22	1.6	23	1.8	22	.9	19	.2	23	.1
13	22	1.2	23	.0	23	.8	22	.0	.23	2.7	22	1.4	22	1.5	22	2.5	19	1.2	23	.1
14	22	.3	23	.1	23	.0	22	1.5	22	3.0	22	.0	23	.3	22	.5	19	1.5	23	.1
15	22	.4	23	.5	22	.1	23	2.5	23	2.7	22	.2	23	1.4	22	2.6	19	6.4	23	.6
16	22	.2	23	.0	22	.2	23	1.1	22	7.5	22	.0	23	.9	22	1.9	18	.7	23	.9
17	22	.5	23	.0	22	.0	23	2.9	22	.7	23	.3	23	2.4	21	1.4	19	.1	23	.9
18	23	.2	23	.0	22	.2	23	.6	22	1.7	23	5.2	23	.1	21	2.0	20	4.2	23	1.3
19	23	2.5	23	2.1	22	.6	23	1.0	22	.1	23	2.8	23	.4	21	5.2	22	2.5	23	.3
20	22	.4	23	2.3	22	.0	22	1.8	22	4.0	22	4.3	22	.8	21	3.9	22	.1	23	1.6
21	22	2.3	23	2.6	23	.0	22	.2	22	.1	21	3.9	22	.4	22	.9	22	.8	23	.2
22	22	.1	23	2.8	23	.0	22	.1	22	1.9	21	.6	22	.2	23	.3	22	5.0	23	.1
23	22	.1	23	.0	23	.0	22	12.1	23	1.5	21	.5	22	.4	22	2.5	22	5.6	22	.7
24	22	.0	23	1.0	23	.0	22	2.0	23	.5	22	.1	22	2.6	22	.0	23	.0	21	.0
25	23	.4	23	.0	23	.0	22	.4	22	4.9	22	.7	20	.2	21	.0	23	.3	21	.3
26	23	.0	23	.0	23	.4	22	1.2	22	7.8	22	.1	20	2.9	21	2.1	23	.0	21	.0
27	22	.0	23	.1	23	.0	22	.4	22	4.7	23	1.7	20	.4	21	1.8	22	1.0	21	.0
28	22	.0	23	.2	23	.0	22	.9	22	1.0	23	3.5	19	.1	21	.6	22	7.0	22	.2
29	22	.5	23	.0	23	.0	22	3.1	22	.1	23	1.2	19	2.2	21	4.7	22	.2	22	.1
30	22	.5	0	.0	23	.7	22	.2	23	3.2	23	.0	20	1.8	20	3.2	22	3.4	22	.1
31	22	1.6	0	.0	23	.0	0	.0	23	.7	0	.0	21	.7	21	1.5	0	.0	23	.5
	17.7	22.3	4.8	46.7	68.6	44.1	33.6	66.0	73.2	58.5	72.1	17.6								

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	1	2	3	4	5	6	7	8	9	10	11	12												
1	24	1.3	24	.2	12	2.5	24	.1	21	2.6	16	6.8	21	.0	23	1.1	23	6.8	24	.1	22	3.2	23	.7
2	24	.3	24	.0	12	2.0	24	.0	20	6.0	17	11.8	21	6.3	22	.4	23	6.4	24	.3	22	4.3	23	1.2
3	24	.1	24	.4	12	.2	24	.7	19	6.0	18	2.8	21	.9	22	.0	24	1.9	24	1.4	22	2.5	24	.0
4	24	.0	24	2.2	12	3.3	24	4.0	19	1.1	21	.3	21	1.4	22	7.3	24	1.4	24	.3	22	3.1	24	.4
5	24	.0	24	1.7	12	1.3	21	15.5	21	2.0	23	.3	21	1.9	23	.1	24	2.1	24	.1	22	1.7	23	2.5
6	24	.0	24	.0	14	2.1	21	.7	21	8.6	23	1.0	20	1.4	23	1.4	24	4.4	24	.9	22	.4	23	3.8
7	24	.0	23	.0	14	4.3	20	1.2	21	.2	22	2.5	21	1.7	23	1.3	24	1.6	23	2.7	22	.2	22	2.9
8	24	.1	23	.0	14	3.0	21	6.8	18	4.3	21	6.6	22	1.4	23	1.6	24	.7	23	1.7	22	.8	22	.0
9	24	2.1	23	.0	13	2.4	21	2.7	18	17.3	21	3.7	22	.4	22	1.5	24	7.6	23	1.8	23	2.9	22	.2
10	23	.0	23	.0	13	7.9	20	1.4	18	6.3	21	3.1	22	4.9	22	.8	24	.2	23	2.0	22	4.0	22	.3
11	23	.0	23	.4	14	14.4	20	.5	18	5.6	21	4.1	22	.7	22	.6	24	4.6	23	6.8	22	6.3	22	1.4
12	23	.0	23	5.3	16	4.3	19	.9	17	.9	21	1.3	22	.6	22	2.0	23	4.7	23	5.3	21	3.3	22	4.2
13	23	.1	21	3.2	17	.0	19	8.5	17	6.4	21	1.7	22	.0	22	3.6	23	4.2	23	8.2	21	6.9	23	1.0
14	23	.4	20	2.2	19	.0	18	4.8	19	2.4	20	.1	21	2.9	22	2.4	22	3.6	23	6.2	21	2.2	23	1.1
15	23	.0	19	.1	20	1.4	18	13.9	18	4.2	20	.5	21	2.3	23	.4	22	.0	23	3.0	20	3.3	23	1.8
16	24	.0	17	.1	21	.0	18	6.7	18	8.2	20	1.5	22	.7	22	3.1	22	.7	23	1.6	20	1.7	23	.1
17	24	.0	17	.1	21	.0	17	21.6	18	.6	20	3.8	22	3.5	22	1.6	22	4.2	23	.2	20	.3	22	.2
18	24	2.0	17	1.5	21	.0	16	.6	18	6.4	20	2.5	23	2.0	21	2.4	23	.8	23	1.4	21	2.0	23	1.6
19	24	.2	15	2.8	21	.0	15	15.2	18	1.4	20	6.3	23	.5	21	1.6	22	1.6	22	5.5	22	1.9	23	1.3
20	24	.1	16	4.7	21	.0	16	16.0	18	.3	20	.1	23	.4	21	.1	22	5.3	21	2.3	22	.6	23	.8
21	24	.1	15	1.2	21	.0	17	.3	19	.2	20	4.1	23	.2	22	3.2	22	1.3	21	1.1	22	1.0	23	.2
22	24	.7	15	3.7	23	1.0	18	13.0	19	.7	19	.7	23	.0	22	4.7	22	.0	21	12.8	22	8.0	23	.1
23	24	.3	15	.8	24	.0	19	8.0	19	4.8	20	2.9	22	.0	22	2.0	22	.0	20	3.1	22	1.2	23	1.1
24	24	.1	14	11.9	24	.0	21	5.9	19	3.4	21	7.5	22	.1	22	6.1	22	2.1	21	3.5	22	.2	23	.5
25	24	.0	14	.5	24	1.7	21	2.5	17	.5	21	.1	22	.0	22	1.5	23	.1	21	3.3	22	.4	23	.0
26	24	.0	14	5.4	24	.1	21	2.0	16	2.4	21	1.1	22	.0	22	1.0	23	.2	21	1.8	22	.1	23	.0
27	23	.1	13	.0	24	.1	21	3.0	18	2.9	20	.0	22	.2	23	4.4	23	.0	21	1.1	22	2.6	22	.7
28	23	.3	13	.4	24	.0	21	1.5	18	3.8	20	.0	23	.2	23	.5	23	1.0	21	.5	21	.8	22	1.9
29	23	.2	0	.0	24	.0	21	6.6	18	1.8	20	.4	23	1.4	23	.5	23	1.1	21	.0	21	.8	22	.9
30	22	2.0	0	.0	24	.3	21	6.2	17	4.3	20	2.8	23	.3	23	4.4	23	1.9	22	3.9	21	1.6	22	4.1
31	23	1.0	0	.0	24	.0	0	.0	16	20.0	0	.0	23	.1	23	4.3	0	.0	22	1.7	0	.0	23	2.5
	11.5	49.1	52.2	170.4	135.5	80.1	36.4	66.2	70.5	84.7	68.4	37.1												

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	1	2	3	4	5	6	7	8	9	10	11	12												
1	24	.3	23	1.2	24	1.0	24	.5	24	5.6	24	2.0	23	.2	24	.6	24	2.6	23	.8	24	3.5	24	1.8
2	23	3.7	23	2.3	24	.3	24	1.2	24	12.4	24	.1	21	1.0	23	.4	24	1.4	23	.9	24	2.1	23	.4
3	23	6.0	23	.2	24	1.4	24	3.9	24	.9	22	.1	21	.2	23	1.1	24	.1	23	.4	24	10.6	23	1.9
4	23	4.0	23	.1	24	.0	24	8.6	23	4.4	22	2.9	21	1.0	22	.8	23	2.9	23	.9	23	13.6	22	2.2
5	22	2.6	23	1.2	24	.0	22	6.1	22	.4	21	1.5	20	1.9	21	.0	22	.1	23	.9	22	1.7	22	.6
6	22	9.5	23	1.5	24	.1	24	7.3	22	.8	20	1.1	19	.4	21	.2	22	.3	22	.3	22	3.2	22	.6
7	23	2.8	23	.9	24	.1	23	12.9	22	1.7	21	6.9	19	1.4	21	2.3	22	.0	23	4.3	22	.0	22	.1
8	23	.0	22	3.8	24	1.0	21	3.5	22	5.4	21	1.1	19	1.8	21	2.0	22	1.2	23	2.8	22	.0	22	.8
9	24	.3	23	2.7	24	1.4	21	4.9	22	5.7	21	.3	20	.0	21	.5	22	3.1	23	2.6	22	.0	22	.0
10	24	.0	22	.3	24	7.5	21	5.4	21	.5	21	7.7	22	1.3	21	.1	22	.3	23	17.1	22	.0	22	.0
11	24	.0	22	1.7	24	.5	21	.1	20	.4	21	.9	21	.3	21	.0	22	6.5	22	.4	22	.2	22	.1
12	24	.0	22	5.0	24	.6	19	.3	20	.0	22	4.6	21	.6	21	4.6	21	4.3	22	.4	23	1.0	22	.4
13	24	1.4	22	4.2	24	.1	19	8.4	20	.0	22	.4	21	.9	20	.3	21	2.5	22	5.9	23	2.7	22	.0
14	24	.1	22	4.5	24	2.0	19	1.5	21	.1	22	1.0	20	5.6	20	.2	22	.0	22	1.6	22	.1	22	.5
15	24	.1	22	1.3	24	3.1	19	6.9	23	.9	21	1.1	21	.4	20	.2	20	.9	22	1.5	22	.0	22	.0
16	24	.2	22	3.8	24	1.7	20	2.2	23	1.7	21	.7	21	.1	19	2.4	19	3.3	22	1.5	22	.9	22	.0
17	24	.1	23	.7	24	.2	21	2.2	23	1.2	21	1.4	22	1.0	20	.3	19	2.4	22	.0	22	2.1	22	1.4
18	24	.6	23	.3	24	.0	21	3.5	23	2.9	21	3.7	22	5.8	20	1.2	20	.3	22	1.9	22	1.4	21	.0
19	24	.0	24	2.8	24	.0	20	10.4	23	1.0	21	3.1	22	1.3	20	.0	20	.1	22	1.3	21	1.8	21	.2
20	24	.0	24	6.9	24	.2	20	3.3	23	1.0	21	.7	22	1.4	20	1.9	20	.2	22	3.2	22	.0	21	.5
21	24	1.3	24	2.7	24	.1	20	5.6	23	5.6	21	.1	21	1.2	21	2.2	20	.2	23	5.0	22	.7	22	1.2
22	24	.5	24	.1	24	.4	20	1.7	22	1.3	21	.5	21	.7	21	.0	21	1.7	23	2.1	22	1.4	22	.5
23	24	.0	24	.0	23	1.3	22	4.0	22	6.7	22	.7	21	.5	21	.1	21	1.8	22	1.5	22	2.6	22	.4
24	24	.0	24	2.4	23	4.4	23	6.7	22	1.4	22	.9	21	1.6	21	.5	21	.2	22	5.9	22	.6	22	1.3
25	24	.0	24	1.8	23	6.6	22	3.0	21	7.3	22	1.5	21	1.1	22	.4	19	2.8	22	1.3	22	.7	22	1.6
26	24	.0	24	2.4	23	8.1	22	.9	20	4.2	22	.2	21	3.7	23	.8	18	.8	23	1.4	22	1.3	21	2.8
27	24	.0	24	.4	23	3.0	20	2.5	20	5.8	22	.6	20	3.0	23	.4	18	5.5	23	2.9	22	5.9	21	5.0
28	24	.0	24	1.2	23	4.0	20	1.6	20	4.0	22	1.2	20	2.7	23	.8	18	6.8	23	3.7	22	2.0	21	1.5
29	24	.5	0	.0	23	4.1	20	3.6	19	4.7	22	.1	20	2.0	23	.1	19	3.5	23	.8	22	1.9	21	.4
30	24	.3	0	.0	23	1.5	20	4.0	19	2.6	23	.1	20	.8	23	.6	22	.8	23	.6	22	1.0	21	.1
31	24	.0	0	.0	23	2.5	0	.0	19	2.3	0	.0	22	.8	23	2.4	0	.0	23	1.7	0	.0	22	.1
34.4		56.1		126.8		93.0		47.0		44.4		27.4		56.4		78.2		63.3		26.4				

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	1	2	3	4	5	6	7	8	9	10	11	12												
1	24	.7	24	.6	24	.8	23	1.7	23	1.2	24	.0	23	.0	23	.0	23	.0	23	3.8	24	1.7		
2	24	2.2	24	.1	23	3.8	24	.0	22	1.6	22	1.6	22	4.0	24	2.7	22	.1	23	1.0	24	.1		
3	24	.5	23	.0	23	.9	23	1.9	22	.7	22	2.6	22	1.2	22	.6	24	1.1	22	.2	23	.6	23	.2
4	22	.4	23	.0	23	.3	23	4.3	21	2.5	22	1.9	21	2.1	22	2.7	24	.0	22	1.4	24	.3	23	5.0
5	21	1.5	23	.2	23	.1	23	2.2	21	.9	22	3.1	21	2.3	23	1.1	24	2.8	22	.0	23	.0	22	4.0
6	21	.9	23	.0	23	.0	24	1.2	21	3.2	22	.2	21	.7	23	.4	24	1.5	22	.1	23	.0	22	4.6
7	22	.7	23	.1	23	.0	23	2.3	21	1.2	22	.6	21	5.1	23	2.6	24	3.5	22	.0	23	.1	23	1.1
8	22	.1	23	.2	23	.0	22	4.0	21	.5	22	4.2	21	.4	23	2.8	24	.6	22	3.1	23	.3	22	3.4
9	22	.0	23	.2	23	.1	20	1.5	21	.4	22	.8	20	1.8	24	.0	24	1.8	22	1.4	23	1.0	23	1.8
10	22	.0	23	.0	23	.2	20	3.6	22	3.2	21	3.7	19	3.1	24	.8	24	.8	22	1.4	23	2.6	23	2.2
11	24	.3	23	.0	23	.0	20	9.8	22	.1	21	2.8	19	.9	24	1.0	24	1.7	22	.5	23	1.1	23	4.1
12	24	.0	23	.0	23	.9	20	3.2	22	4.2	21	2.9	20	.9	24	.3	23	2.5	22	.1	23	1.9	23	.5
13	24	1.7	23	.0	23	.2	18	5.7	21	.3	22	1.2	18	.6	24	.3	23	.4	22	2.8	22	.5	24	.9
14	23	3.1	23	.0	23	3.9	18	3.4	21	.3	22	.4	19	.4	24	1.1	23	1.4	22	5.5	20	3.5	24	1.6
15	23	.5	23	.0	23	1.1	18	.6	21	4.0	22	1.1	20	8.5	24	.0	23	.4	22	.0	20	2.0	24	.5
16	23	.1	23	.0	23	.0	18	4.4	21	12.1	23	.5	20	.3	24	2.1	21	.3	21	3.9	20	.1	24	2.1
17	23	.0	23	.0	23	.0	18	2.4	21	1.7	23	2.9	20	4.8	24	.3	21	10.7	20	15.3	20	.0	21	2.8
18	23	.0	23	.0	24	4.0	18	2.4	22	7.2	23	.2	20	.8	24	1.1	21	1.3	20	.1	21	3.6	21	3.9
19	23	.0	23	4.4	24	.1	18	1.1	21	1.5	23	.2	20	.2	24	.8	21	.7	21	2.1	21	.4	22	3.9
20	23	.0	23	.1	24	.2	17	2.2	23	13.6	23	.0	20	2.9	24	3.3	21	5.4	21	4.7	21	.0	22	.5
21	23	.4	23	.1	23	.0	17	7.1	22	9.9	22	2.1	21	.8	24	.4	21	2.9	22	.4	21	.0	22	.0
22	24	.0	23	.0	23	.0	17	4.2	20	9.9	22	2.1	21	1.6	24	.7	21	4.5	22	2.2	20	.0	22	.1
23	24	.0	23	.9	23	1.1	17	.1	20	5.1	22	.1	21	4.9	24	2.2	21	1.8	21	4.1	21	.5	23	.0
24	24	.0	23	.0	23	.1	17	3.9	20	1.7	21	.0	21	2.5	24	1.3	22	1.0	21	1.3	22	2.0	23	.5
25	24	.0	23	.0	24	.0	16	.6	20	.3	21	.7	22	.0	24	.9	22	1.1	22	2.7	21	2.3	23	.0
26	24	.0	23	.4	24	2.6	17	2.3	20	.6	21	1.4	22	.6	24	3.7	22	.0	22	1.2	21	2.0	23	.0
27	24	.0	23	.0	24	.4	19	.5	20	2.8	21	.1	22	.3	24	.0	22	1.4	22	.6	21	.3	23	.0
28	24	.6	23	1.4	24	.0	21	9.7	20	.6	22	1.0	22	.5	24	3.5	22	1.6	22	.4	22	3.0	23	1.0
29	24	.2	0	.0	24	.4	21	15.2	20	1.3	22	1.1	22	1.7	24	3.6	22	.0	22	6.9	22	.7	23	2.0
30	24	.0	0	.0	24	.0	21	.9	20	2.9	22	1.3	22	.1	24	3.0	22	1.2	22	.9	24	1.0	23	.0
31	24	.8	0	.0	24	.0	0	.0	21	.0	0	.0	22	2.8	24	.1	0	.0	22	4.5	0	.0	24	.0
	14.6	8.6	23.2	100.8	95.7	41.5	55.6	45.6	55.3	68.0	34.5	48.6												

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	1	2	3	4	5	6	7	8	9	10	11	12												
1 21	2.2	2.1	.1	2.3	2.0	1.4	1.8	1.6	1.4	1.6	3.6	1.9	2.6	18	2.3	15	4.8	15	.3					
2 21	.3	2.1	.8	2.0	.0	2.0	1.8	1.6	2.4	1.5	6.6	1.9	.2	16	1.2	15	3.9	14	.4					
3 21	.0	2.1	1.9	2.0	.7	2.0	1.0	1.7	2.6	1.4	1.2	1.7	1.1	16	1.5	16	1.1	16	.9					
4 21	.0	2.1	1.1	2.0	.6	2.0	.0	1.7	3.7	1.8	1.8	1.4	4.8	1.7	.0	16	1.4	15	.3					
5 21	.0	2.0	2.6	1.8	1.8	2.0	.4	1.7	.2	1.8	4.8	1.8	4.6	1.5	.1	17	2.3	18	1.7	1.0				
6 20	.0	1.9	3.5	1.8	.5	1.9	.6	1.7	.0	1.9	4.7	1.7	3.8	1.5	1.1	16	2.8	16	3.2	16	.2	18	.1	
7 20	.2	1.9	.7	1.8	.1	1.9	.7	1.7	.1	1.9	3.2	1.7	.7	1.5	.5	17	4.1	16	1.4	19	.9	18	.1	
8 20	.7	1.9	.7	2.0	.0	1.9	.0	1.9	.2	1.8	2.3	1.7	3.6	1.4	5.2	18	1.1	16	4.6	19	1.7	19	.7	
9 20	3.2	1.9	1.2	2.0	.0	1.9	.3	2.0	.0	1.6	4.1	1.7	1.7	1.6	4.5	18	2.3	15	6.2	19	.8	18	.1	
10 20	2.3	1.9	.3	2.1	.7	1.9	.0	1.6	.0	1.6	1.6	1.6	1.6	1.6	1.5	16	2.2	15	1.8	17	3.5	18	1.2	
11 20	.1	1.9	.2	2.1	.2	1.9	.5	1.9	1.3	1.6	.2	1.6	1.1	1.8	1.1	16	3.0	15	1.0	17	.8	17	.0	
12 20	.2	1.9	.0	2.0	.5	1.8	10.7	1.8	5.9	1.7	.2	1.7	1.8	1.8	1.8	16	1.9	15	.1	16	2.0	16	2.5	
13 20	.6	1.9	.0	2.0	.0	1.8	1.6	1.8	5.9	1.6	1.0	1.6	3.5	1.8	8.6	16	5.4	15	1.8	15	1.1	16	.3	
14 20	.0	1.8	2.4	1.9	.0	1.6	4.7	1.6	2.9	1.5	1.9	1.6	4.4	1.8	.2	16	1.0	14	.0	15	6.6	17	.1	
15 21	.0	1.8	.4	2.0	1.4	1.5	.1	1.6	5.8	1.5	1.0	1.6	.5	1.8	.9	13	9.0	14	.1	15	.0	15	1.8	
16 21	1.4	1.8	2.1	2.0	2.3	1.5	.2	1.5	2.2	1.4	4.0	1.6	4.2	1.8	1.1	12	.8	13	1.9	14	.8	15	2.7	
17 21	2.1	1.8	.7	2.0	.2	1.7	.9	1.5	.2	1.4	.7	1.6	1.3	1.8	.6	13	2.6	13	1.0	15	1.1	14	3.2	
18 21	.4	1.8	.0	2.0	.0	1.7	.6	1.4	3.6	1.4	.9	1.6	.5	1.8	9.4	14	5.4	15	2.9	15	1.6	13	4.7	
19 21	1.9	1.8	.4	2.0	.0	1.7	.2	1.4	1.3	1.4	.5	1.6	1.1	1.8	5.8	13	6.6	15	5.6	15	.4	13	.2	
20 20	2.6	1.8	.1	2.0	.0	1.7	.5	1.3	.8	1.4	.2	1.7	.5	1.7	1.8	13	1.6	16	2.4	14	.7	13	.0	
21 20	1.1	1.8	.1	1.9	.1	1.7	.8	1.4	.0	1.4	.0	1.8	1.5	1.6	.5	14	4.8	16	1.4	14	.2	13	.8	
22 20	.1	1.9	.1	1.9	.2	1.7	.0	1.4	.1	1.4	.3	1.8	1.4	1.6	2.1	13	3.4	16	1.0	14	3.7	12	1.4	
23 20	.5	2.0	2.8	1.9	3.1	1.7	.2	1.5	1.9	1.3	1.5	1.8	1.0	1.6	.2	13	.5	16	2.5	15	.0	13	3.1	
24 20	.3	2.1	.1	1.9	.0	1.7	.7	1.6	4.5	1.3	2.1	1.6	1.6	1.3	3.5	14	7.4	15	.0	13	4.2	4.2		
25 20	1.9	2.1	.5	1.9	.0	1.8	1.5	1.6	3.8	1.3	.0	1.6	.2	1.7	2.0	14	4.3	13	7.9	15	1.3	12	3.0	
26 20	.0	2.1	1.2	1.9	.0	1.8	.7	1.5	2.2	1.4	6.3	1.5	.4	1.7	.6	16	1.1	13	.1	14	4.5	12	.5	
27 20	1.1	2.1	.0	2.0	.0	1.6	3.8	1.1	5.6	1.5	.4	1.5	.6	1.7	3.2	17	5.1	14	6.2	14	3.6	12	1.1	
28 20	.0	2.1	.0	2.1	.0	1.6	6.5	1.2	6.9	1.6	7.9	1.5	.4	1.7	2.7	17	.9	14	2.5	14	1.5	13	3.7	
29 20	1.4	2.1	.5	2.1	.2	1.5	13.0	1.2	1.8	1.6	1.4	1.5	1.6	1.7	.7	17	3.5	13	14.8	14	3.9	14	1.9	
30 20	.0	0	.0	2.1	.5	1.6	9.3	1.2	1.0	1.6	1.9	1.5	1.3	1.8	1.7	17	2.6	13	3.1	15	1.2	14	.0	
31 20	.0	0	.0	2.1	1.0	0	.0	1.3	.0	0	.0	1.5	.9	1.8	1.2	0	.0	14	2.4	0	.0	14	.3	
	24.6	24.4	16.4	60.0	61.4	60.3	55.6	77.0	85.3	91.3	52.6	40.5												



\*\*\*\* 1985 \*\*\*\*

	1	2	3	4	5	6	7	8	9	10	11	12											
1 17	.0	.14	.0	.18	.0	.12	8.9	10	7.6	14	.0	.16	3.2	15	.8	18	2.0	13	2.2	16	1.0	14	9.8
2 15	.4	.14	.0	.17	.1	11	11.3	9	5.5	14	1.1	16	.0	.15	.4	18	.7	13	5.0	16	.5	14	7.0
3 16	.6	.14	.0	.17	2.5	10	14.5	9	8.9	14	4.2	15	1.0	14	.2	17	.5	13	.3	16	.2	14	5.9
4 15	.9	.14	.1	.17	.6	10	2.5	9	4.6	13	.4	16	.2	14	2.7	16	1.5	14	1.9	15	3.3	15	6.4
5 16	.3	.14	.0	.15	3.1	10	7.0	9	1.0	15	2.4	16	.2	14	1.1	16	2.4	14	.2	15	7.8	16	5.1
6 15	1.5	.14	.0	.15	4.0	10	4.1	9	.1	13	3.9	16	1.2	13	1.9	15	3.5	13	5.1	15	1.1	16	7.8
7 15	.1	.14	.0	.15	.4	10	1.0	11	2.9	13	5.3	16	.9	13	4.1	14	1.7	13	7.8	14	.9	16	3.7
8 15	.0	.14	.0	.16	.6	10	.4	11	.1	15	2.1	16	3.5	13	2.3	13	1.3	13	1.2	14	4.0	14	11.0
9 17	.3	.14	.0	.16	1.1	11	1.5	12	.2	15	2.4	16	.2	13	1.8	13	2.8	13	2.2	14	.7	14	2.6
10 17	.1	.14	.0	.16	.0	12	2.7	13	2.5	14	2.6	17	1.1	13	2.1	13	7.0	13	2.9	14	3.1	13	1.7
11 17	.0	.14	.0	.16	.1	12	1.8	11	1.7	14	1.1	16	.2	12	5.4	12	2.4	13	.6	14	2.4	13	.8
12 17	.5	.14	.0	.16	1.6	11	.1	9	4.9	14	.0	16	.3	12	1.4	11	6.3	13	.0	13	1.5	13	.0
13 17	1.2	.14	.0	.14	4.6	12	.2	8	2.6	14	.6	16	1.5	12	.4	10	3.3	13	.0	14	2.0	13	1.8
14 17	.2	.14	.7	.13	1.6	12	.0	8	3.1	12	5.5	16	.5	12	2.0	10	4.7	13	.5	13	2.5	12	.9
15 17	.0	.14	.0	.12	.3	12	.0	10	.4	13	2.0	16	1.5	12	1.6	10	.6	13	.8	13	5.5	11	.0
16 17	.0	.17	.0	.12	.0	12	.0	10	3.0	13	.1	16	.6	12	1.3	10	.0	13	2.4	13	1.7	11	2.0
17 16	.0	.16	.0	.12	.0	12	.7	9	11.5	13	.3	14	.6	11	.7	10	.0	14	3.5	13	.8	13	.0
18 16	.0	.16	.0	.12	.1	13	.0	9	.2	13	1.4	14	3.0	11	6.8	10	.6	15	3.2	13	.6	13	.0
19 16	.0	.16	.0	.11	.3	12	1.5	9	7.6	14	.7	12	1.2	11	3.9	11	2.2	14	6.0	14	1.8	14	.0
20 16	.2	.16	.0	.11	2.2	12	1.2	9	.3	14	.0	12	.2	11	8.5	13	.3	13	4.0	14	2.1	12	.1
21 16	.0	.16	.0	.10	2.7	11	.5	11	1.6	14	.0	13	1.4	12	4.7	14	.4	12	7.5	14	5.3	13	1.6
22 14	.0	.16	.1	.10	.1	10	4.7	11	1.7	15	.1	13	.6	12	3.9	14	.0	12	8.3	14	1.9	13	.6
23 13	3.1	.16	.6	.10	.0	10	7.6	11	.5	15	.3	13	3.0	12	.2	14	.9	11	.4	14	1.2	13	.0
24 14	.5	.14	1.2	.10	.0	11	.5	11	2.8	15	.0	11	5.2	13	1.1	13	1.2	10	4.4	13	5.3	13	.0
25 14	.0	.14	3.3	.10	.0	11	.7	11	.3	15	.0	10	2.8	13	3.6	15	2.0	10	7.1	12	4.8	13	.0
26 14	.0	.13	1.0	.10	.0	13	7.2	11	.0	15	.2	10	5.3	13	2.5	14	3.4	10	7.6	12	7.7	13	.0
27 14	.0	.14	.3	.13	6.7	12	3.0	11	.2	16	.3	12	.8	13	4.9	13	6.8	10	3.5	14	1.5	14	.0
28 13	1.7	.14	.0	.13	7.2	11	1.7	12	.3	15	3.9	12	.1	13	6.3	13	4.9	10	1.2	14	.0	15	.0
29 13	.6	.0	.0	.11	5.5	11	2.8	12	.7	15	1.0	12	.0	13	.0	13	6.1	11	11.9	14	1.2	15	.0
30 13	.0	.0	.0	.11	3.0	11	2.2	14	.6	15	.3	13	2.6	13	1.8	13	3.4	12	3.5	14	2.4	15	.2
31 14	.1	.0	.0	.11	7.6	.0	.0	13	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	6.0	.0	.0	.0	.7
12.3		7.2		56.1		90.1		77.6		42.3		44.3		78.6		72.7		111.1		74.9		69.6	

\*\*\*\* 1986 \*\*\*\*

	1	2	3	4	5	6	7	8	9	10	11	12												
1	18	.0	17	6.0	17	.9	17	2.0	18	11.6	16	7.4	18	.0	18	3.3	16	3.0	16	6.7	16	1.4	18	.1
2	18	.0	17	2.9	15	.4	14	5.8	16	.6	16	6.6	17	.5	18	.8	16	3.1	15	3.8	16	2.8	18	.0
3	18	.3	17	.2	15	2.0	10	1.2	15	1.8	16	1.6	18	1.3	18	.4	16	8.4	15	2.3	16	.5	18	.0
4	18	1.5	17	.0	15	2.1	11	5.4	15	5.6	16	3.8	18	.9	18	.6	17	1.9	15	5.0	17	.2	18	.1
5	17	.0	17	.0	17	.0	12	3.0	16	4.4	16	8.9	18	1.3	18	.1	17	1.2	15	4.8	16	1.9	18	.3
6	17	.5	16	.2	17	.1	12	3.0	15	11.8	16	2.4	18	1.3	18	1.0	16	.0	15	4.0	16	1.0	18	.3
7	16	.2	16	.0	17	.0	11	3.1	15	.3	17	1.7	18	2.9	18	.7	16	.2	15	1.8	17	1.8	18	1.2
8	16	.0	16	.0	16	1.0	12	2.0	15	.6	16	1.9	18	.2	18	.3	16	1.8	16	1.1	17	.4	18	1.2
9	16	1.9	16	.1	16	.5	12	4.7	15	9.6	16	2.4	18	.1	18	1.0	16	.9	18	2.6	16	2.0	18	.3
10	16	.9	16	3.3	16	.0	12	1.2	15	3.0	16	1.1	18	.3	18	.0	16	1.2	16	2.0	16	4.5	18	.0
11	16	.1	16	.0	16	.0	13	.2	15	1.4	16	1.1	18	2.8	18	.0	16	1.5	15	11.6	16	2.6	18	.0
12	16	.0	16	1.8	16	.3	13	2.3	14	5.2	16	.0	18	.6	18	.2	15	3.5	14	1.3	15	.8	18	.4
13	16	.1	15	.0	16	.1	13	.0	14	.5	16	.0	18	.0	18	.6	15	2.1	14	2.9	15	4.0	18	2.5
14	16	1.2	15	2.8	16	1.2	13	.5	15	.9	16	.1	17	.3	15	.1	14	.2	13	4.3	14	7.5	18	.8
15	14	3.2	15	.4	16	.0	13	7.7	15	4.0	16	.5	17	.7	15	.8	15	.0	13	2.0	14	3.4	18	2.8
16	14	2.3	15	.1	16	.7	10	2.8	15	.7	16	1.8	17	1.0	15	2.7	15	1.6	13	6.6	14	.3	18	2.5
17	14	2.1	15	6.0	16	.1	10	4.9	15	.0	17	.3	17	2.1	14	3.5	15	.2	12	7.4	13	1.8	18	1.4
18	13	.1	15	1.9	17	.1	10	1.8	14	2.7	18	.2	17	2.6	14	3.8	15	1.3	12	6.8	14	1.5	18	.1
19	13	.4	15	.3	17	.2	11	3.1	13	.4	18	.7	17	.2	14	.8	15	4.5	12	2.8	14	1.3	18	.2
20	13	.0	14	.3	17	.0	11	3.9	12	5.7	18	.7	16	.2	15	.8	15	2.0	11	3.8	13	4.7	18	.1
21	14	.3	14	.9	15	.1	11	5.6	12	.1	17	.4	16	.6	15	9.2	14	2.7	11	.1	15	1.4	18	.4
22	14	.5	14	1.8	14	2.8	12	.8	12	.5	17	.4	16	6.1	13	9.9	14	3.8	13	.2	15	2.4	18	.0
23	14	.3	14	1.5	14	7.4	13	2.4	12	.7	17	.4	17	1.7	13	1.6	14	3.0	13	.4	15	2.6	18	.0
24	13	1.1	14	.3	14	2.3	13	1.8	12	1.7	17	3.5	16	1.1	13	.4	14	6.4	12	2.2	15	.2	18	.1
25	12	.3	14	1.5	14	.4	14	2.9	12	3.5	17	2.1	16	.1	14	1.5	16	2.0	13	1.2	16	.4	18	1.0
26	12	.5	15	3.7	15	.1	14	2.7	11	.9	17	2.8	16	.3	15	4.0	17	2.8	14	2.8	16	.0	18	.0
27	11	.0	16	4.4	15	.0	13	2.6	11	2.2	17	.8	16	1.4	16	.1	17	4.1	14	1.9	16	.0	18	.0
28	14	.7	16	6.9	15	.8	13	4.3	13	11.4	17	.0	16	6.3	17	1.1	16	4.9	14	6.1	16	.4	18	.0
29	15	2.3	0	.0	14	2.5	15	1.8	14	6.9	16	.8	16	.0	17	1.2	16	3.4	14	5.8	16	.2	18	.0
30	15	.1	0	.0	14	.5	16	6.9	15	.9	17	2.0	16	.0	17	5.6	16	1.2	17	3.6	16	.3	18	.2
31	15	2.7	0	.0	14	.9	0	.0	16	3.9	0	.0	16	.0	17	3.9	0	.0	17	2.4	0	.0	18	.0
													23.5	47.2	27.6	90.3	103.2	56.0	36.7	60.0	72.6	110.2	52.3	15.8

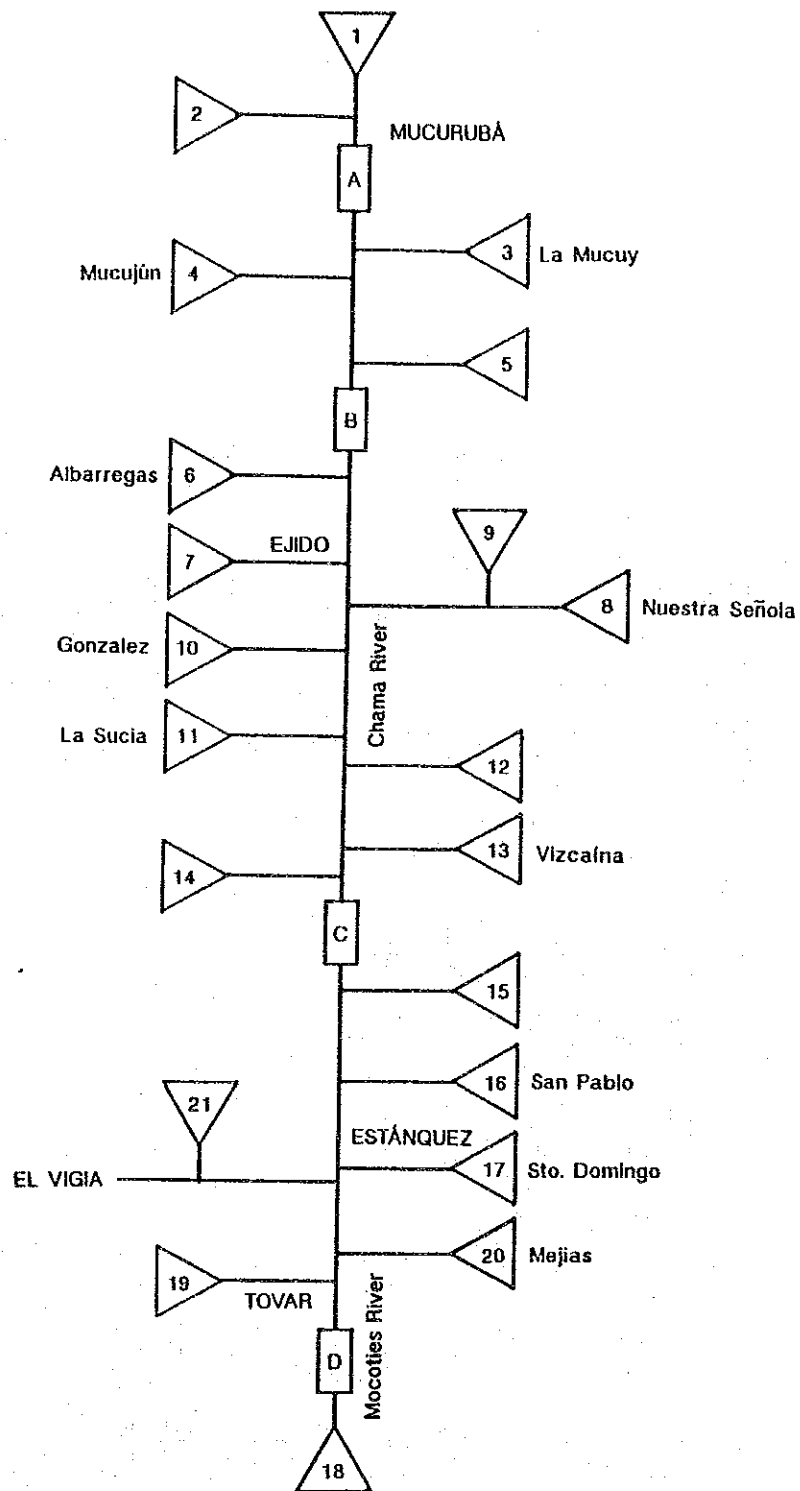
\*\*\*\* 1987 \*\*\*\*

	1	2	3	4	5	6	7	8	9	10	11	12											
1 18	.0	.18	.0	.18	.0	.18	.2	.15	.5	14	5.0	15	3.4	13	2.0	13	3.7	14	4.1				
2 18	.0	.18	.0	.18	.7	16	3.8	18	.3	15	.0	14	2.3	16	.4	10	7.9	14	2.1	14	1.5		
3 18	.0	.18	.2	.18	.2	16	1.0	17	2.0	15	.2	14	3.4	15	1.6	10	4.9	14	.7	14	.0		
4 18	.0	.18	.0	.18	.2	16	1.9	16	.0	15	.2	14	2.7	15	.2	10	1.9	14	.3	14	1.3		
5 18	.1	.18	.0	.18	.8	15	3.3	16	9.2	15	3.8	15	1.7	15	2.3	10	2.3	14	.9	14	1.3		
6 18	.4	.18	.2	.18	1.7	17	4.6	15	3.8	16	2.8	15	3.2	15	1.6	10	.0	14	.0	14	1.5		
7 18	3.5	.18	.0	.18	.1	17	3.4	15	1.5	16	4.1	15	.4	14	4.0	15	8.9	10	.9	12	.5	14	.1
8 18	.8	.18	1.2	.18	1.2	17	.0	14	1.9	16	.5	16	.8	14	.8	15	.1	10	.4	12	.0	14	.1
9 18	.9	.18	1.4	.18	1.4	17	.1	14	.1	16	.3	16	2.1	14	.1	15	1.5	11	5.8	12	.1	14	.0
10 18	.6	.18	.0	.18	.4	16	.4	14	1.2	16	.2	14	3.0	14	1.0	16	.0	12	1.8	12	.0	14	1.7
11 18	.0	.18	.2	.18	.1	14	.1	14	.4	15	.9	14	.6	14	.9	15	.0	12	1.2	12	.3	13	.5
12 18	.0	.16	1.5	.18	.0	15	.6	14	.4	15	.2	14	1.6	14	1.0	15	1.5	12	2.6	12	.0	13	.0
13 18	.0	.16	.0	.17	.7	15	.0	14	1.0	15	.2	13	.2	14	2.3	14	1.1	11	2.9	12	.0	13	.0
14 18	.1	.16	.2	.17	.0	15	.0	14	5.1	14	.3	13	1.0	13	.8	12	5.9	10	22.5	12	1.5	13	.0
15 18	.0	.16	.0	.17	1.4	15	.0	15	5.5	13	2.6	13	2.1	13	.2	12	5.8	10	4.0	11	4.3	15	.1
16 18	.0	.16	.0	.16	1.5	15	.6	15	.8	13	3.3	13	1.9	13	.0	12	1.0	10	1.6	11	.8	15	.1
17 18	.0	.16	.0	.16	.7	15	.0	15	2.3	15	.6	12	2.1	13	.0	11	.2	11	5.3	12	.2	15	.0
18 18	.0	.17	.0	.15	2.4	15	1.6	15	2.2	14	.0	13	3.8	13	.8	11	1.0	10	9.9	15	1.0	15	.0
19 18	.0	.18	.0	.15	.1	15	2.5	16	.3	14	.0	12	4.9	14	.1	11	.2	10	4.8	14	6.6	15	.1
20 18	2.0	.18	.1	.15	.6	15	.1	16	2.1	15	.0	12	1.0	14	.1	11	1.4	10	2.2	14	7.9	15	.1
21 18	1.2	.18	.1	.15	.3	15	.4	16	6.7	15	.0	12	.0	14	3.0	11	3.0	11	.0	14	6.1	15	.0
22 18	.0	.18	.0	.14	4.8	15	.0	14	6.4	15	.2	12	.7	14	.0	11	1.4	14	.7	14	3.1	15	.0
23 18	.4	.18	.0	.14	.0	14	7.9	12	11.9	14	7.6	12	1.3	14	2.4	10	7.5	14	1.0	13	1.9	15	.0
24 18	.9	.18	.0	.15	.6	15	.1	12	10.8	14	5.7	12	.4	14	.1	12	.7	13	2.7	14	1.4	15	.3
25 18	1.1	.17	.0	.16	2.8	15	7.1	12	7.1	15	1.0	12	3.1	14	.7	11	3.3	13	1.0	14	2.6	15	.0
26 18	.0	.17	.3	.17	4.3	15	.0	13	.6	15	.6	12	.7	15	.6	12	.8	14	5.7	13	1.2	14	.0
27 18	.1	.17	.0	.17	2.6	15	.1	13	.7	15	.4	12	.6	15	.9	12	2.2	15	2.7	13	6.2	14	.0
28 18	.0	.16	.0	.17	3.9	15	1.1	14	.5	15	.3	12	2.5	16	5.2	12	.2	15	1.4	12	1.5	14	.0
29 18	.4	.0	.0	.17	.7	14	.0	15	.1	15	.2	12	5.0	16	1.1	12	3.2	14	4.3	12	1.4	14	.0
30 18	.1	.0	.0	.17	.1	15	2.1	18	.0	16	.0	13	.5	16	2.3	12	2.2	14	1.6	12	1.9	14	.0
31 18	.0	.0	.0	.17	1.7	0	.0	18	.1	0	.0	13	1.0	16	2.3	0	.0	14	6.9	0	.0	14	.4
12.7	5.5	34.1	40.1	84.5	43.8	48.3	49.1	62.6	112.7	58.1	13.5												

Calculation Results of Storage Function Model  
Simulation for 1986 Type Rainfall

Legend

RYUIKI	Name of sub-basin
K	K of $S=K*Q^P$
P	P of $S=K*Q^P$
TL	Lag time
F1	Primary runoff rate
A	Catchment Area
ANV	Catchment Area
QB	Base flow
RSA	Saturation rainfall
RAVE	Sub-basin's average rainfall
SIGMA-R	Sub-basin's base rainfall
AME-KEISU	C of $RAVE=C*(SIGMA-R)$
KADO	Name of Channel



MODEL DIAGRAM FOR STORAGE FUNCTION MODEL SIMULATION

STUDY ON CHAMA RIVER BASIN  
CONSERVATION PROJECT

JAPAN INTERNATIONAL COOPERATION AGENCY

INPUT DATA LIST

	K	P	TL	F1	A	ANV	QB	RSA	RAVE	SIGMA-R	AME-KEISUU
RYUIKI	11.000	0.333	1.010	0.600	365.00	365.00	9.7	1000.0	13.6	2.9	4.69000
BASIN-1	16.300	0.245	0.000	0.600	134.20	134.20	3.6	1000.0	35.7	27.9	1.28000
BASIN-2	13.700	0.281	0.290	0.600	102.40	102.40	2.7	1000.0	17.9	27.9	0.64000
LA MUCUY	12.500	0.301	0.860	0.600	285.70	285.70	5.5	1000.0	33.5	27.9	1.20000
MUCUJUN	16.400	0.244	0.000	0.600	192.70	192.70	5.1	1000.0	50.8	27.9	1.82000
BASIN-5	13.000	0.292	0.760	0.600	130.00	130.00	3.5	1000.0	34.6	27.9	1.24000
ALBARRE	16.000	0.248	0.000	0.610	98.00	98.00	2.6	1000.0	38.2	27.9	1.37000
BASIN-7	12.600	0.299	1.860	0.600	304.80	304.80	8.1	1000.0	11.0	2.9	3.79000
UPPER NS	13.000	0.292	0.760	0.610	338.00	338.00	9.0	1000.0	35.7	27.9	1.28000
LOWER NS	12.700	0.297	0.870	0.610	118.60	118.60	3.1	1000.0	11.8	2.3	5.14000
GONZALEZ	13.500	0.284	0.170	0.610	63.20	63.20	1.7	1000.0	10.7	2.3	4.64000
BASIN-11	16.100	0.247	0.000	0.650	58.80	58.80	1.6	1000.0	54.4	31.1	1.75000
BALSN-12	13.100	0.290	0.560	0.610	136.60	136.60	3.6	1000.0	64.7	31.1	2.08000
VIZCALINA	13.200	0.289	0.150	0.680	191.50	191.50	5.1	1000.0	15.7	2.3	6.81000
BASIN-14	15.600	0.253	0.000	0.670	45.40	45.40	1.2	1000.0	63.8	31.1	2.05000
BASIN-15	12.600	0.298	0.640	0.610	270.70	270.70	7.2	1000.0	74.9	38.8	1.93000
S.PABLO	13.600	0.283	0.210	0.620	74.70	74.70	2.0	1000.0	62.5	38.8	1.61000
BASIN-18	17.800	0.297	0.620	0.600	241.00	241.00	6.4	1000.0	38.6	17.0	2.27000
BASIN-19	14.400	0.228	0.000	0.600	173.50	173.50	4.6	1000.0	41.5	17.0	2.44000
MEJIAS	13.800	0.278	0.350	0.600	119.90	119.90	3.2	1000.0	72.9	38.8	1.88000
BASIN-21	13.800	0.278	0.050	0.600	152.30	152.30	4.0	1000.0	11.5	2.3	4.99000

	K	P	TL	TLZ
KADO	0.000	0.500	0.000	0.560
CHAWA-1	0.000	0.500	0.000	0.690
CHAWA-2	36.400	0.600	0.189	0.830
CHAWA-3	0.000	0.500	0.000	0.820
MOCOTIES				

TIME	R1	MUCURUBA	R2	Q2	UP-CHANI	LW-CHANI	R-MUCUJU	MUCUJU	TABAY	R-MUCUJU	MUCUJU	MUCUJU	MERIDA	R5
17.9.	0.00	9.70	0.00	3.60	13.30	13.30	0.00	2.70	16.00	0.00	5.50	5.50	21.50	0.00
17.10.	0.00	9.70	0.00	3.60	13.30	13.30	0.00	2.70	16.00	0.00	5.50	5.50	21.50	0.00
17.11.	0.00	9.70	0.00	3.60	13.30	13.30	0.00	2.70	16.00	0.00	5.50	5.50	21.50	0.00
17.12.	0.00	9.70	0.00	3.60	13.30	13.30	0.00	2.70	16.00	0.00	5.50	5.50	21.50	0.00
17.13.	0.00	9.70	0.00	3.60	13.30	13.30	0.00	2.70	16.00	0.00	5.50	5.50	21.50	0.00
17.14.	0.00	9.70	0.00	3.60	13.30	13.30	0.00	2.70	16.00	0.00	5.50	5.50	21.50	0.00
17.15.	0.00	9.70	0.00	3.60	13.30	13.30	0.00	2.70	16.00	0.00	5.50	5.50	21.50	0.00
17.16.	1.88	10.00	3.71	3.71	13.71	13.71	1.86	2.72	16.20	3.48	5.63	5.63	21.83	5.28
17.17.	0.47	10.28	0.38	3.76	14.04	13.85	1.86	2.73	16.59	0.00	6.44	6.44	23.03	0.55
17.18.	0.00	10.69	0.00	3.76	14.44	14.22	0.00	2.74	16.95	0.00	6.66	6.66	23.61	0.00
17.19.	0.00	10.67	0.00	3.76	14.43	14.44	0.00	2.74	17.17	0.00	6.63	6.63	23.80	0.00
17.20.	0.00	10.66	0.00	3.77	14.43	14.43	0.06	2.74	17.17	0.00	6.63	6.63	23.79	0.18
17.21.	0.00	10.64	0.00	3.79	14.43	14.43	0.06	2.74	17.17	0.00	6.69	6.69	23.86	0.18
17.22.	0.00	10.62	10.82	20.91	31.54	21.95	5.31	4.34	26.30	9.96	13.34	13.34	39.64	15.11
17.23.	0.00	10.61	2.05	26.82	37.43	34.13	1.02	5.72	39.86	1.92	54.52	54.52	94.37	2.91
18. 1.	10.79	10.59	6.81	80.09	90.68	60.86	3.90	11.53	72.39	7.32	70.37	70.37	142.76	11.10
18. 2.	0.00	102.60	6.91	122.91	225.51	150.01	3.46	21.23	171.24	6.48	146.99	146.99	318.22	9.83
18. 3.	0.00	77.37	3.20	95.51	172.88	202.35	1.60	25.38	227.74	3.00	182.63	182.63	410.56	4.55
18. 4.	0.00	61.34	0.00	53.77	115.11	147.46	0.00	21.65	169.11	0.00	135.04	135.04	304.15	0.00
18. 5.	0.00	50.80	0.00	37.11	87.91	103.14	0.00	17.32	120.46	0.00	78.04	78.04	198.50	0.00
18. 6.	0.00	43.43	0.00	28.27	71.70	80.78	0.00	14.46	95.24	0.00	54.09	54.09	149.32	0.00
18. 7.	0.00	38.03	0.00	22.86	60.89	66.94	0.00	12.45	79.39	0.00	41.16	41.16	120.55	0.00
18. 8.	0.00	33.93	0.00	19.25	53.18	57.50	0.00	10.97	68.46	0.00	33.19	33.19	101.65	0.00
18. 9.	0.00	30.74	0.00	16.68	47.42	50.64	0.00	9.84	60.48	0.00	27.85	27.85	88.33	0.00
18.10.	0.00	28.19	0.00	14.77	42.96	45.46	0.00	8.95	54.40	0.00	24.06	24.06	78.47	0.00
18.11.	0.00	26.12	0.00	13.30	39.42	41.40	0.00	8.23	49.64	0.00	21.25	21.25	70.89	0.00
18.12.	0.00	24.41	0.00	12.14	36.55	38.16	0.00	7.65	45.81	0.00	19.10	19.10	64.91	0.00
18.13.	0.00	22.98	0.00	11.21	34.18	35.51	0.00	7.17	42.68	0.00	17.40	17.40	60.97	0.00
18.14.	0.00	21.76	0.00	10.44	32.31	33.31	0.00	6.70	40.07	0.00	16.03	16.03	56.10	0.00
18.15.	0.00	20.72	0.00	9.79	30.52	31.46	0.00	6.41	37.87	0.00	14.91	14.91	52.78	0.00
18.16.	0.00	19.82	0.00	9.25	29.08	29.88	0.00	6.11	35.99	0.00	13.98	13.98	49.98	0.00
18.17.	0.00	19.04	0.00	8.79	28.53	28.53	0.00	5.85	34.38	0.00	13.20	13.20	47.58	0.00
18.18.	0.00	18.36	0.00	8.38	26.74	27.35	0.00	5.62	32.97	0.00	12.53	12.53	45.50	0.00
18.19.	0.00	17.75	0.00	8.03	25.78	26.32	0.00	5.42	31.74	0.00	11.96	11.96	43.70	0.00
18.20.	0.00	17.21	0.00	7.73	24.94	25.41	0.00	5.24	30.65	0.00	11.46	11.46	42.11	0.00
18.21.	0.00	16.73	0.00	7.45	24.18	24.61	0.00	5.08	29.69	0.00	11.02	11.02	40.71	0.00
18.22.	0.00	16.30	0.00	7.21	23.51	23.89	0.00	4.94	28.83	0.00	10.63	10.63	39.46	0.00
18.23.	0.00	15.91	0.00	7.00	22.90	23.24	0.00	4.81	28.06	0.00	10.29	10.29	38.35	0.00
19. 0.	0.00	15.56	0.00	6.80	22.36	22.66	0.00	4.70	27.36	0.00	9.99	9.99	37.35	0.00
19. 1.	0.00	15.24	0.00	6.63	21.86	22.14	0.00	4.59	26.73	0.00	9.71	9.71	36.44	0.00
19. 2.	0.00	14.94	0.00	6.47	21.41	21.66	0.00	4.49	26.16	0.00	9.47	9.47	35.62	0.00
19. 3.	0.00	14.68	0.00	6.32	21.00	21.23	0.00	4.40	25.63	0.00	9.25	9.25	34.88	0.00
19. 4.	0.00	14.43	0.00	6.19	20.62	20.83	0.00	4.32	25.15	0.00	9.04	9.04	34.20	0.00
19. 5.	0.00	14.21	0.00	6.07	20.27	20.47	0.00	4.25	24.71	0.00	8.86	8.86	33.57	0.00
19. 6.	0.00	14.00	0.00	5.95	19.95	20.13	0.00	4.18	24.31	0.00	8.69	8.69	33.00	0.00
19. 7.	0.00	13.80	0.00	5.85	19.65	19.82	0.00	4.12	23.94	0.00	8.54	8.54	32.47	0.00
19. 8.	0.00	13.63	0.00	5.75	19.38	19.53	0.00	4.06	23.59	0.00	8.39	8.39	31.98	0.00
19. 9.	0.00	13.46	0.00	5.67	19.12	19.27	0.00	4.00	23.27	0.00	8.26	8.26	31.53	0.00
19.10.	0.00	13.30	0.00	5.58	18.89	19.02	0.00	3.95	22.97	0.00	8.14	8.14	31.11	0.00
19.11.	0.00	13.16	0.00	5.51	18.79	18.79	0.00	3.90	22.69	0.00	8.03	8.03	30.72	0.00
19.12.	0.00	13.02	0.00	5.43	18.46	18.57	0.00	3.86	22.43	0.00	7.92	7.92	30.36	0.00
19.13.	0.00	12.90	0.00	5.37	18.26	18.37	0.00	3.82	22.19	0.00	7.83	7.83	30.01	0.00
19.14.	0.00	12.78	0.00	5.30	18.08	18.19	0.00	3.74	21.96	0.00	7.73	7.73	29.70	0.00
19.15.	0.00	12.67	0.00	5.24	17.91	18.01	0.00	3.74	21.75	0.00	7.65	7.65	29.40	0.00
19.16.	0.00	12.56	0.00	5.19	17.75	17.84	0.00	3.70	21.55	0.00	7.57	7.57	29.12	0.00
19.17.	0.00	12.46	0.00	5.14	17.60	17.69	0.00	3.67	21.36	0.00	7.49	7.49	28.85	0.00
19.18.	0.00	12.37	0.00	5.09	17.46	17.54	0.00	3.64	21.18	0.00	7.42	7.42	28.60	0.00

TIME	OS	UP-CHAM2	LW-CHAM2	R-ALBARR	ALBARR	EJIDO	R7	EJIDO+Q7	R-UP-NS	UPPER NS	R-LW-NS	LOWER NS
17.9.	5.10	26.60	26.60	0.00	3.50	30.10	0.00	2.60	0.00	8.10	0.00	9.00
17.10.	5.10	26.60	26.60	0.00	3.50	30.10	0.00	2.60	0.00	8.10	0.00	9.00
17.11.	5.10	26.60	26.60	0.00	3.50	30.10	0.00	2.60	0.00	8.10	0.00	9.00
17.12.	5.10	26.60	26.60	0.00	3.50	30.10	0.00	2.60	0.00	8.10	0.00	9.00
17.13.	5.10	26.60	26.60	0.00	3.50	30.10	0.00	2.60	0.00	8.10	0.00	9.00
17.14.	5.10	26.60	26.60	0.12	3.50	30.10	0.68	2.60	0.00	8.10	0.64	9.00
17.15.	5.10	26.60	26.60	0.00	3.50	30.10	0.14	2.60	0.00	8.10	0.13	9.00
17.16.	5.10	26.60	26.60	0.00	3.50	30.10	0.00	2.60	1.52	8.10	0.00	9.00
17.17.	6.01	29.04	28.94	3.62	3.62	30.53	3.97	2.73	0.38	8.11	3.11	9.36
17.18.	6.00	29.04	28.94	0.00	4.15	33.36	0.00	2.78	0.38	8.15	0.38	10.58
17.19.	6.98	29.79	29.66	0.00	4.13	33.80	0.00	36.14	0.00	8.20	0.00	10.90
17.20.	6.07	29.85	29.81	0.12	4.13	33.94	0.14	36.57	0.00	8.26	0.00	10.86
17.21.	6.16	30.02	29.90	0.12	4.18	34.08	0.14	36.73	0.00	8.26	0.13	10.88
17.22.	91.40	131.04	29.90	0.12	4.18	34.08	11.37	36.89	0.00	8.26	10.62	31.87
17.23.	94.45	188.83	61.34	1.98	10.29	72.70	25.02	92.99	0.00	8.26	2.05	99.84
18.0.	250.64	393.41	148.95	7.56	183.86	183.86	25.02	208.88	0.00	8.26	2.05	99.84
18.1.	304.74	622.96	252.25	7.56	50.71	302.95	6.36	375.12	0.00	11.75	6.91	143.03
18.2.	193.09	603.45	464.57	6.70	99.58	564.15	7.40	104.16	0.00	8.72	3.20	278.89
18.3.	92.70	603.45	616.91	3.10	116.85	733.76	3.42	76.90	0.00	36.76	0.00	90.23
18.4.	60.40	396.86	539.41	0.00	83.67	623.07	0.00	41.70	0.00	32.32	0.00	322.99
18.5.	44.60	258.90	384.09	0.00	48.50	402.59	0.00	664.78	0.00	28.94	0.00	150.33
18.6.	44.60	193.92	238.75	0.00	33.77	272.53	0.00	28.32	0.00	26.29	0.00	90.23
18.7.	35.36	155.91	182.14	0.00	25.81	207.94	0.00	17.17	0.00	24.17	0.00	66.67
18.8.	29.36	131.01	168.19	0.00	20.88	169.07	0.00	14.39	0.00	22.44	0.00	56.40
18.9.	25.18	113.51	125.59	0.00	17.57	143.16	0.00	12.42	0.00	21.00	0.00	46.52
18.10.	22.12	100.59	109.51	0.00	15.22	124.72	0.00	10.97	0.00	19.79	0.00	40.20
18.11.	19.80	90.69	97.52	0.00	13.47	110.99	0.00	9.85	0.00	18.77	0.00	35.52
18.12.	17.98	82.89	88.27	0.00	12.12	100.39	0.00	8.97	0.00	17.88	0.00	31.92
18.13.	16.53	76.60	80.94	0.00	11.06	92.00	0.00	8.27	0.00	17.12	0.00	29.09
18.14.	15.34	71.44	75.00	0.00	10.20	85.20	0.00	7.20	0.00	16.45	0.00	26.81
18.15.	14.35	67.13	70.10	0.00	9.50	79.60	0.00	6.80	0.00	15.86	0.00	24.93
18.16.	13.52	63.50	66.01	0.00	8.92	74.92	0.00	6.45	0.00	15.34	0.00	23.38
18.17.	12.81	60.39	62.53	0.00	8.42	70.95	0.00	6.15	0.00	14.88	0.00	22.06
18.18.	12.20	57.70	59.55	0.00	8.00	67.55	0.00	5.88	0.00	14.46	0.00	20.94
18.19.	11.67	55.37	56.98	0.00	7.64	64.62	0.00	5.65	0.00	14.09	0.00	19.97
18.20.	11.21	53.32	54.75	0.00	7.32	62.05	0.00	5.45	0.00	13.75	0.00	19.13
18.21.	10.80	51.51	52.75	0.00	7.04	59.80	0.00	5.27	0.00	13.44	0.00	18.40
18.22.	10.43	49.90	51.01	0.00	6.80	57.81	0.00	5.11	0.00	13.16	0.00	17.75
18.23.	9.82	48.46	49.45	0.00	6.58	56.03	0.00	4.96	0.00	12.91	0.00	17.17
19.0.	9.55	46.00	46.80	0.00	6.39	54.45	0.00	4.83	0.00	12.67	0.00	16.66
19.1.	9.55	45.00	45.80	0.00	6.22	53.02	0.00	4.71	0.00	12.46	0.00	16.20
19.2.	9.32	44.94	45.67	0.00	6.06	51.73	0.00	4.61	0.00	12.26	0.00	15.78
19.3.	9.10	43.98	44.64	0.00	5.92	50.56	0.00	4.51	0.00	12.07	0.00	15.41
19.4.	8.90	43.10	43.70	0.00	5.79	49.49	0.00	4.42	0.00	11.90	0.00	15.07
19.5.	8.72	42.29	42.85	0.00	5.67	48.52	0.00	4.33	0.00	11.75	0.00	14.75
19.6.	8.55	41.55	42.06	0.00	5.56	47.63	0.00	4.26	0.00	11.60	0.00	14.47
19.7.	8.40	40.87	41.34	0.00	5.47	46.81	0.00	4.19	0.00	11.46	0.00	14.21
19.8.	8.26	40.24	40.68	0.00	5.37	46.05	0.00	4.12	0.00	11.33	0.00	13.97
19.9.	8.13	39.66	40.06	0.00	5.29	45.35	0.00	4.06	0.00	11.21	0.00	13.74
19.10.	8.00	39.11	39.49	0.00	5.21	44.70	0.00	4.00	0.00	11.10	0.00	13.54
19.11.	7.89	38.61	38.96	0.00	5.14	44.10	0.00	3.95	0.00	10.99	0.00	13.34
19.12.	7.78	38.14	38.46	0.00	5.07	43.54	0.00	3.90	0.00	10.89	0.00	13.17
19.13.	7.68	37.70	38.00	0.00	5.01	43.01	0.00	3.85	0.00	10.80	0.00	12.85
19.14.	7.59	37.29	37.57	0.00	4.95	42.52	0.00	3.81	0.00	10.71	0.00	12.70
19.15.	7.50	36.90	37.19	0.00	4.85	42.06	0.00	3.77	0.00	10.63	0.00	12.55
19.16.	7.42	36.54	36.79	0.00	4.80	41.63	0.00	3.73	0.00	10.55	0.00	12.44
19.17.	7.34	36.19	36.43	0.00	4.75	41.23	0.00	3.69	0.00	10.47	0.00	12.32
19.18.	7.27	35.87	36.09	0.00	4.75	40.85	0.00	3.69	0.00	10.40	0.00	12.32



TIME	N. SENGRA	W/ NS	R-GONZAL	GONZALEZ W/ GONZ.	R11	Q11	W/ Q11	R12	Q12	W/ Q12	R-VIZCAI	VIZCAINA	
17. 9.	17.10	49.80	0.00	3.10	52.90	0.00	1.70	54.60	0.00	1.60	56.20	0.00	3.60
17.10.	17.10	49.80	0.00	3.10	52.90	0.00	1.70	54.60	0.00	1.60	56.20	0.00	3.60
17.11.	17.10	49.80	0.00	3.10	52.90	0.00	1.70	54.60	0.00	1.60	56.20	0.00	3.60
17.12.	17.10	49.80	0.00	3.10	52.90	0.00	1.70	54.60	0.00	1.60	56.20	0.00	3.60
17.13.	17.10	49.80	0.00	3.10	52.90	0.00	1.70	54.60	0.00	1.60	56.20	0.00	3.60
17.14.	17.10	49.80	0.00	3.10	52.90	0.00	1.70	54.60	0.00	1.60	56.20	0.00	3.60
17.15.	17.10	49.80	0.00	3.10	52.90	0.00	1.70	54.60	0.00	1.60	56.20	0.00	3.60
17.16.	17.10	49.80	0.00	3.10	52.90	0.00	1.70	54.60	0.00	1.60	56.20	0.00	3.60
17.17.	17.46	53.82	0.00	3.10	53.82	0.00	1.70	55.52	0.00	1.60	57.12	0.00	3.60
17.18.	18.72	53.58	0.00	3.10	56.68	0.00	1.70	58.38	0.00	1.60	59.98	0.00	3.60
17.19.	19.10	55.24	0.00	3.10	58.34	0.00	1.70	60.04	0.00	1.60	61.64	0.00	3.60
17.20.	19.12	55.69	0.00	3.10	58.79	0.00	1.70	60.49	0.00	1.60	62.09	0.00	3.60
17.21.	19.12	55.85	0.00	3.10	58.95	0.00	1.70	60.65	0.00	1.60	62.25	0.00	3.60
17.22.	19.25	56.14	0.00	3.10	59.24	0.00	1.70	60.94	0.00	1.60	62.54	0.00	3.60
17.23.	40.13	133.12	0.00	3.10	136.22	0.00	1.70	137.92	0.00	1.60	139.52	0.00	3.60
18. 0.	108.10	316.98	1.03	3.10	320.08	0.93	1.70	321.78	0.00	1.60	323.38	0.00	3.60
18. 1.	151.29	526.41	2.06	3.13	529.53	1.86	1.73	531.27	29.57	76.22	607.48	35.15	146.11
18. 2.	290.64	958.95	2.57	3.42	962.37	2.32	1.99	964.36	24.85	257.65	1222.01	29.54	497.46
18. 3.	359.75	1170.42	3.08	4.90	1175.32	2.78	3.03	1178.35	0.00	36.68	1215.03	0.00	434.19
18. 4.	600.00	195.69	0.00	8.59	933.61	0.93	3.73	937.33	0.00	22.36	959.69	0.00	65.00
18. 5.	159.32	590.23	0.00	9.93	603.16	0.00	3.69	603.86	0.00	15.96	619.82	0.00	41.96
18. 6.	116.52	410.42	0.51	9.31	419.73	0.46	3.86	423.59	0.00	12.38	435.97	0.00	30.80
18. 7.	92.84	317.95	1.54	10.13	328.08	1.39	4.89	332.88	0.00	10.13	343.11	0.00	24.30
18. 8.	77.84	261.30	0.00	12.73	274.03	0.00	4.80	278.83	0.00	8.59	287.42	0.00	20.09
18. 9.	67.52	223.10	0.00	11.38	234.48	0.00	4.50	238.98	0.00	7.48	246.46	0.00	17.17
18.10.	60.00	195.69	0.00	10.33	206.02	0.00	4.24	210.26	0.00	6.65	216.91	0.00	15.04
18.11.	54.28	175.12	0.00	9.49	181.61	0.00	4.02	188.63	0.00	6.00	194.63	0.00	13.42
18.12.	49.81	159.17	0.00	8.80	167.97	0.00	3.83	171.80	0.00	5.49	177.29	0.00	12.16
18.13.	46.21	146.47	0.00	8.23	154.70	0.00	3.67	158.37	0.00	5.07	163.44	0.00	11.16
18.14.	43.26	136.15	0.00	7.75	143.90	0.00	3.52	147.42	0.00	4.73	152.15	0.00	10.34
18.15.	40.80	127.61	0.00	7.34	134.95	0.00	3.40	138.34	0.00	4.44	142.78	0.00	9.66
18.16.	38.72	120.43	0.00	6.99	127.42	0.00	3.29	130.71	0.00	4.20	134.91	0.00	9.10
18.17.	36.94	114.34	0.00	6.69	121.02	0.00	3.19	124.21	0.00	3.99	128.20	0.00	8.61
18.18.	35.40	109.10	0.00	6.42	115.52	0.00	3.10	118.62	0.00	3.80	122.42	0.00	8.20
18.19.	34.06	104.56	0.00	6.19	110.75	0.00	3.02	113.76	0.00	3.64	117.41	0.00	7.84
18.20.	32.88	100.59	0.00	5.98	106.57	0.00	2.94	109.51	0.00	3.50	113.02	0.00	7.53
18.21.	31.84	97.09	0.00	5.80	102.89	0.00	2.88	105.76	0.00	3.38	109.15	0.00	7.25
18.22.	30.91	93.99	0.00	5.63	99.62	0.00	2.82	102.44	0.00	3.27	105.71	0.00	7.01
18.23.	29.33	88.74	0.00	5.48	95.71	0.00	2.76	99.47	0.00	3.17	102.64	0.00	6.79
19. 0.	28.56	86.51	0.00	5.35	94.09	0.00	2.71	96.80	0.00	3.08	99.88	0.00	6.59
19. 1.	28.04	84.49	0.00	5.23	91.73	0.00	2.66	94.40	0.00	3.00	97.40	0.00	6.42
19. 2.	27.48	82.65	0.00	5.11	89.60	0.00	2.62	92.22	0.00	2.93	95.15	0.00	6.26
19. 3.	26.97	80.97	0.00	5.01	87.66	0.00	2.58	90.24	0.00	2.86	93.10	0.00	6.12
19. 4.	26.50	79.44	0.00	4.92	85.89	0.00	2.54	88.44	0.00	2.80	91.24	0.00	5.98
19. 5.	26.07	78.03	0.00	4.83	84.27	0.00	2.51	86.78	0.00	2.74	89.53	0.00	5.86
19. 6.	25.67	76.73	0.00	4.76	82.78	0.00	2.48	85.26	0.00	2.69	87.95	0.00	5.75
19. 7.	25.30	75.53	0.00	4.68	81.41	0.00	2.45	83.86	0.00	2.65	86.51	0.00	5.65
19. 8.	24.95	74.42	0.00	4.61	80.15	0.00	2.42	82.57	0.00	2.60	85.17	0.00	5.56
19. 9.	24.63	73.40	0.00	4.55	78.98	0.00	2.39	81.37	0.00	2.56	83.93	0.00	5.47
19.10.	24.34	72.44	0.00	4.49	77.89	0.00	2.37	80.26	0.00	2.52	82.78	0.00	5.39
19.11.	24.06	71.55	0.00	4.44	76.88	0.00	2.35	79.22	0.00	2.49	81.71	0.00	5.32
19.12.	23.80	70.71	0.00	4.39	75.93	0.00	2.32	78.26	0.00	2.45	80.71	0.00	5.25
19.13.	23.56	69.93	0.00	4.34	75.05	0.00	2.30	77.35	0.00	2.42	79.78	0.00	5.19
19.14.	23.33	69.20	0.00	4.29	74.23	0.00	2.28	76.51	0.00	2.39	78.90	0.00	5.13
19.15.	23.11	68.51	0.00	4.25	73.45	0.00	2.26	75.72	0.00	2.37	78.08	0.00	5.07
19.16.	22.91	67.87	0.00	4.21	72.72	0.00	2.25	74.97	0.00	2.34	77.31	0.00	5.02
19.17.	22.72	67.26	0.00	4.18	72.04	0.00	2.23	74.27	0.00	2.32	76.59	0.00	4.97
19.18.			0.00	4.14	71.40	0.00	2.22	73.61	0.00	2.29	75.50	0.00	4.92

TIME	W/ VIZCA	R14	Q14	UP-CHAM3	LW-CHAM3	R15	Q15	W/ Q15	R-S-PABL	S-PABLO	W/S-PABL	R-S-DOMI	S-DOMING
17. 9.	59.80	0.00	5.10	64.90	64.90	0.00	1.20	66.10	0.00	7.20	73.30	0.00	2.00
17.10.	59.80	0.00	5.10	64.90	64.90	0.00	1.20	66.10	0.00	7.20	73.30	0.00	2.00
17.11.	59.80	0.00	5.10	64.90	64.90	0.00	1.20	66.10	0.00	7.20	73.30	0.00	2.00
17.12.	59.80	0.00	5.10	64.90	64.90	0.00	1.20	66.10	0.00	7.20	73.30	0.00	2.00
17.13.	59.80	0.00	5.10	64.90	64.90	0.00	1.20	66.10	0.00	7.20	73.30	0.00	2.00
17.14.	59.80	0.00	5.10	64.90	64.90	0.00	1.20	66.10	0.00	7.20	73.30	0.00	2.00
17.15.	59.80	0.00	5.10	64.90	64.90	0.00	1.20	66.10	0.00	7.20	73.30	0.00	2.00
17.16.	59.81	0.00	5.10	64.81	64.90	0.00	1.20	66.10	0.00	7.20	73.30	0.00	2.00
17.17.	60.72	0.00	5.10	65.82	64.92	0.00	1.20	66.12	0.00	7.20	73.32	0.00	2.00
17.18.	63.58	0.00	5.10	68.68	65.09	0.00	1.20	66.29	0.00	7.20	73.49	0.00	2.00
17.19.	65.24	0.00	5.10	70.34	65.67	0.00	1.20	66.67	0.00	7.20	74.07	0.00	2.00
17.20.	65.69	0.00	5.10	70.79	66.58	0.00	1.20	67.78	0.00	7.20	74.98	0.00	2.00
17.21.	65.85	0.00	5.10	70.95	67.50	0.00	1.20	68.70	12.35	20.97	89.67	10.30	5.59
17.22.	66.14	0.00	5.10	71.24	68.29	0.00	1.20	69.49	47.09	708.87	778.35	39.28	291.30
17.23.	143.12	0.00	5.10	148.22	70.49	0.00	1.20	71.69	11.19	1360.31	1432.00	9.34	173.10
18. 0.	328.98	1.36	5.11	332.10	85.78	0.00	1.20	86.98	0.58	332.60	419.58	0.48	63.96
18. 1.	753.59	3.41	5.63	759.22	145.11	34.64	98.05	243.16	3.09	156.81	412.97	2.58	43.59
18. 2.	1719.47	3.41	9.35	1728.82	338.16	29.11	258.98	597.16	0.39	141.09	738.25	0.32	30.75
18. 3.	1649.22	4.09	22.96	1672.18	809.44	0.00	16.20	834.83	0.00	92.61	927.45	0.00	21.29
18. 4.	1024.69	1.36	29.49	1054.17	1300.75	0.00	11.80	1316.95	0.19	66.78	1383.73	0.16	16.42
18. 5.	661.77	0.00	26.54	698.31	1288.69	0.00	9.27	1010.76	0.00	52.99	1353.49	0.00	13.21
18. 6.	466.77	0.68	26.42	493.20	1001.50	0.00	7.63	762.15	0.00	36.18	798.33	0.00	9.44
18. 7.	367.40	2.04	34.92	402.32	588.30	0.00	6.50	594.81	0.00	31.35	626.15	0.00	8.30
18. 8.	307.51	0.00	31.14	338.66	479.03	0.00	5.68	484.71	0.00	27.75	512.46	0.00	7.43
18. 9.	263.63	0.00	23.16	255.10	401.76	0.00	5.06	406.82	0.00	24.98	431.79	0.00	6.75
18.10.	208.06	0.00	20.61	228.66	344.67	0.00	4.57	349.24	0.00	22.79	372.03	0.00	6.20
18.11.	189.46	0.00	18.62	208.07	301.52	0.00	4.18	305.70	0.00	21.03	326.73	0.00	5.76
18.12.	174.60	0.00	17.03	191.63	268.16	0.00	3.87	272.03	0.00	19.58	291.60	0.00	5.39
18.13.	162.49	0.00	15.74	178.23	241.82	0.00	3.61	245.43	0.00	18.37	263.80	0.00	5.08
18.14.	152.45	0.00	14.67	167.12	220.65	0.00	3.39	224.04	0.00	17.35	241.38	0.00	4.81
18.15.	144.00	0.00	13.77	157.77	203.34	0.00	3.20	206.54	0.00	16.48	223.02	0.00	4.58
18.16.	136.81	0.00	13.01	149.82	189.00	0.00	3.04	192.04	0.00	15.73	207.77	0.00	4.38
18.17.	130.62	0.00	12.35	142.97	176.96	0.00	2.90	179.86	0.00	15.08	194.93	0.00	4.21
18.18.	125.25	0.00	11.79	137.03	166.74	0.00	2.76	169.52	0.00	14.50	184.02	0.00	4.06
18.19.	120.54	0.00	11.29	131.83	157.99	0.00	2.67	160.66	0.00	14.00	174.65	0.00	3.92
18.20.	116.39	0.00	10.86	127.25	150.42	0.00	2.58	152.99	0.00	13.55	166.54	0.00	3.80
18.21.	112.71	0.00	10.47	123.18	143.82	0.00	2.49	146.31	0.00	13.15	159.46	0.00	3.69
18.22.	109.43	0.00	10.13	119.55	138.03	0.00	2.41	140.45	0.00	12.79	153.24	0.00	3.59
18.23.	106.48	0.00	9.82	116.30	132.92	0.00	2.35	135.27	0.00	12.47	147.74	0.00	3.51
19. 0.	103.82	0.00	9.54	113.36	128.39	0.00	2.28	130.67	0.00	12.18	142.85	0.00	3.43
19. 1.	101.41	0.00	9.29	110.70	124.33	0.00	2.23	126.56	0.00	11.91	138.47	0.00	3.35
19. 2.	99.22	0.00	9.07	108.29	120.70	0.00	2.18	122.87	0.00	11.67	134.54	0.00	3.29
19. 3.	97.22	0.00	8.86	106.08	117.42	0.00	2.13	119.55	0.00	11.44	130.99	0.00	3.22
19. 4.	95.39	0.00	8.67	104.06	114.46	0.00	2.08	116.54	0.00	11.24	127.78	0.00	3.17
19. 5.	93.71	0.00	8.50	102.21	111.76	0.00	2.04	113.81	0.00	11.05	124.86	0.00	3.12
19. 6.	92.16	0.00	8.34	100.50	109.31	0.00	2.01	111.31	0.00	10.88	122.19	0.00	3.07
19. 7.	90.73	0.00	8.19	98.92	107.66	0.00	1.97	109.03	0.00	10.72	119.75	0.00	3.02
19. 8.	89.40	0.00	8.06	97.46	105.00	0.00	1.94	106.94	0.00	10.57	117.51	0.00	2.98
19. 9.	88.17	0.00	7.93	96.10	103.10	0.00	1.91	105.02	0.00	10.43	115.45	0.00	2.94
19.10.	87.03	0.00	7.81	94.84	101.56	0.00	1.89	103.24	0.00	10.30	113.54	0.00	2.91
19.11.	85.96	0.00	7.71	93.67	99.74	0.00	1.86	101.60	0.00	10.18	111.78	0.00	2.87
19.12.	84.96	0.00	7.60	92.57	98.24	0.00	1.84	100.07	0.00	10.07	110.14	0.00	2.84
19.13.	84.03	0.00	7.51	91.54	96.85	0.00	1.81	98.66	0.00	9.96	108.62	0.00	2.81
19.14.	83.15	0.00	7.42	90.57	95.55	0.00	1.79	97.34	0.00	9.86	107.20	0.00	2.78
19.15.	82.33	0.00	7.34	89.66	94.34	0.00	1.77	96.11	0.00	9.77	105.88	0.00	2.76
19.16.	81.55	0.00	7.26	88.81	93.21	0.00	1.75	94.96	0.00	9.68	104.64	0.00	2.73
19.17.	80.82	0.00	7.18	88.01	92.15	0.00	1.74	93.88	0.00	9.60	103.48	0.00	2.71

TIME	W/S DOMI	R-UP-MOC	UP-MOCOT	LM-MOCOT	R19	Q19	W/O19	R-MEJIAS	MEJIAS	W/MEJIA	W/MOCOT	R21	Q21
17. 9.	75.30	0.00	6.40	6.40	0.00	4.60	11.00	0.00	3.20	14.20	89.50	0.00	4.00
17.10.	75.30	0.00	6.40	6.40	0.00	4.60	11.00	0.00	3.20	14.20	89.50	0.00	4.00
17.11.	75.30	0.00	6.40	6.40	0.00	4.60	11.00	0.00	3.20	14.20	89.50	0.00	4.00
17.12.	75.30	0.00	6.40	6.40	0.00	4.60	11.00	0.00	3.20	14.20	89.50	0.00	4.00
17.13.	75.30	0.00	6.40	6.40	0.00	4.60	11.00	0.00	3.20	14.20	89.50	0.00	4.00
17.14.	75.30	0.00	6.40	6.40	0.00	4.60	11.00	0.00	3.20	14.20	89.50	0.00	4.00
17.15.	75.30	0.00	6.40	6.40	0.00	4.60	11.00	0.00	3.20	14.20	89.50	0.00	4.00
17.16.	75.30	0.00	6.40	6.40	0.00	4.60	11.00	0.00	3.20	14.20	89.50	0.00	4.00
17.17.	75.32	0.00	6.40	6.40	0.00	4.60	11.00	0.00	3.20	14.20	89.50	0.00	4.00
17.18.	75.49	21.57	70.64	17.96	23.18	76.83	94.79	0.00	3.20	97.99	173.49	0.00	4.00
17.19.	76.07	5.45	185.95	91.39	5.86	122.14	213.53	0.00	3.20	216.73	292.80	0.00	4.00
17.20.	76.98	0.68	170.74	183.21	0.73	77.13	260.34	0.00	3.20	263.54	340.53	0.00	4.00
17.21.	95.26	8.85	167.56	170.17	9.52	185.45	356.61	12.03	9.40	366.01	461.27	0.00	4.00
17.22.	1069.66	0.68	203.80	174.08	0.73	95.16	269.25	45.87	499.76	769.01	1838.67	0.00	4.00
17.23.	1605.10	0.00	112.07	187.29	0.00	59.26	246.55	10.90	383.67	636.23	2235.32	0.00	4.00
18. 0.	483.54	0.00	72.63	104.97	0.00	42.87	147.84	0.56	111.39	259.23	742.77	1.00	4.00
18. 1.	456.56	0.23	54.18	69.31	0.24	35.18	104.49	3.01	70.99	178.47	632.03	2.00	4.00
18. 2.	769.00	0.00	43.97	52.34	0.00	28.74	81.08	0.38	53.35	134.43	903.43	2.50	4.87
18. 3.	948.74	0.91	38.73	43.03	0.98	29.54	72.57	0.00	36.14	108.71	1057.45	2.99	8.02
18. 4.	1400.14	0.23	37.52	38.52	0.24	26.17	64.69	0.19	27.27	91.95	1492.10	1.00	9.73
18. 5.	1366.70	0.00	32.73	36.66	0.00	22.55	59.21	0.00	21.86	81.07	1447.77	0.00	9.35
18. 6.	807.77	0.00	28.26	31.92	0.00	19.88	51.81	0.00	18.05	69.85	1134.57	0.50	9.92
18. 7.	634.46	0.00	24.95	27.66	0.00	17.85	45.51	0.00	15.42	60.93	868.70	1.50	13.07
18. 8.	438.55	0.00	22.41	24.49	0.00	16.25	40.74	0.00	13.51	54.25	688.70	0.00	12.24
18. 9.	519.89	0.00	20.41	22.05	0.00	14.96	37.01	0.00	12.06	49.08	568.97	0.00	11.37
18.10.	378.23	0.00	18.81	20.13	0.00	13.91	34.04	0.00	10.94	44.97	483.52	0.00	10.65
18.11.	332.49	0.00	17.49	18.57	0.00	13.03	31.61	0.00	10.04	41.64	419.88	0.00	10.04
18.12.	296.99	0.00	16.40	17.30	0.00	12.29	29.59	0.00	9.31	38.50	371.38	0.00	9.52
18.13.	268.88	0.00	15.48	16.24	0.00	11.66	27.90	0.00	8.70	36.60	333.59	0.00	9.08
18.14.	246.19	0.00	14.69	15.34	0.00	11.11	26.45	0.00	8.19	34.64	303.52	0.00	8.69
18.15.	227.60	0.00	14.02	14.57	0.00	10.64	25.21	0.00	7.76	32.97	279.17	0.00	8.35
18.16.	212.15	0.00	13.43	13.91	0.00	10.22	24.13	0.00	7.39	31.52	259.13	0.00	8.05
18.17.	199.14	0.00	12.92	13.34	0.00	9.85	23.19	0.00	7.07	30.25	242.41	0.00	7.79
18.18.	188.08	0.00	12.46	12.84	0.00	9.52	22.56	0.00	6.78	29.14	228.29	0.00	7.55
18.19.	178.58	0.00	12.06	12.39	0.00	9.23	21.62	0.00	6.54	28.16	216.24	0.00	7.34
18.20.	170.34	0.00	11.70	12.00	0.00	8.97	20.97	0.00	6.32	27.28	205.86	0.00	7.15
18.21.	163.15	0.00	11.38	11.65	0.00	8.73	20.38	0.00	6.12	26.50	196.84	0.00	6.97
18.22.	156.84	0.00	11.09	11.33	0.00	8.51	19.84	0.00	5.95	25.79	188.94	0.00	6.82
18.23.	151.24	0.00	10.83	11.04	0.00	8.32	19.36	0.00	5.79	25.15	181.99	0.00	6.67
19. 0.	146.27	0.00	10.59	10.79	0.00	8.14	18.92	0.00	5.65	24.57	175.82	0.00	6.54
19. 1.	141.82	0.00	10.37	10.55	0.00	7.97	18.52	0.00	5.52	24.04	170.31	0.00	6.42
19. 2.	137.83	0.00	10.18	10.34	0.00	7.82	18.16	0.00	5.40	23.56	165.38	0.00	6.31
19. 3.	134.22	0.00	9.99	10.14	0.00	7.68	17.82	0.00	5.29	23.11	160.94	0.00	6.21
19. 4.	130.95	0.00	9.83	9.96	0.00	7.55	17.51	0.00	5.19	22.71	156.92	0.00	6.11
19. 5.	127.98	0.00	9.67	9.80	0.00	7.43	17.33	0.00	5.10	22.33	153.28	0.00	6.02
19. 6.	125.26	0.00	9.53	9.65	0.00	7.32	16.96	0.00	5.02	21.98	149.95	0.00	5.94
19. 7.	122.78	0.00	9.40	9.50	0.00	7.21	16.72	0.00	4.94	21.66	146.92	0.00	5.87
19. 8.	120.49	0.00	9.27	9.37	0.00	7.12	16.49	0.00	4.86	21.35	144.13	0.00	5.79
19. 9.	118.39	0.00	9.16	9.25	0.00	7.03	16.28	0.00	4.80	21.07	141.57	0.00	5.73
19.10.	116.45	0.00	9.05	9.14	0.00	6.94	16.08	0.00	4.73	20.81	139.20	0.00	5.66
19.11.	114.65	0.00	8.95	9.03	0.00	6.86	15.89	0.00	4.68	20.57	137.01	0.00	5.61
19.12.	112.98	0.00	8.85	8.93	0.00	6.78	15.72	0.00	4.62	20.34	134.99	0.00	5.55
19.13.	111.43	0.00	8.77	8.84	0.00	6.71	15.55	0.00	4.57	20.12	133.10	0.00	5.50
19.14.	109.98	0.00	8.68	8.75	0.00	6.65	15.40	0.00	4.52	19.92	131.35	0.00	5.45
19.15.	108.63	0.00	8.60	8.67	0.00	6.58	15.25	0.00	4.48	19.73	129.71	0.00	5.40
19.16.	107.37	0.00	8.53	8.59	0.00	6.52	15.11	0.00	4.43	19.55	128.18	0.00	5.36
19.17.	106.19	0.00	8.46	8.52	0.00	6.47	14.98	0.00	4.39	19.38	126.75	0.00	5.32
19.18.		0.00	8.40	8.45	0.00	6.41	14.86	0.00	4.35	19.22	125.40	0.00	5.28

CASE 861 CHAN8621 K-25 f1-.6/.8 Rsa=1000 1-DAY-RAIN 100-Y 66-POINT OCT.17 9:-- , 1986

EL. VIGIA

TIME	EL. VIGIA
17. 9.	93.50
17.10.	93.50
17.11.	93.50
17.12.	93.50
17.13.	93.50
17.14.	93.50
17.15.	93.50
17.16.	93.50
17.17.	93.52
17.18.	177.49
17.19.	296.80
17.20.	344.53
17.21.	465.27
17.22.	1842.67
17.23.	2239.32
18. 0.	746.77
18. 1.	636.13
18. 2.	908.30
18. 3.	1065.47
18. 4.	1501.83
18. 5.	1457.12
18. 6.	1144.48
18. 7.	881.77
18. 8.	700.94
18. 9.	580.34
18.10.	494.17
18.11.	429.92
18.12.	380.91
18.13.	342.66
18.14.	312.21
18.15.	287.52
18.16.	267.18
18.17.	250.19
18.18.	235.84
18.19.	223.58
18.20.	213.01
18.21.	203.81
18.22.	195.76
18.23.	188.66
19. 0.	182.36
19. 1.	176.73
19. 2.	171.69
19. 3.	167.15
19. 4.	163.04
19. 5.	159.30
19. 6.	155.90
19. 7.	152.78
19. 8.	149.92
19. 9.	147.29
19.10.	144.87
19.11.	142.62
19.12.	140.54
19.13.	138.60
19.14.	136.80
19.15.	135.11
19.16.	133.54
19.17.	132.06
19.18.	130.68

TIME	R1	MUCURUBA	R2	Q2	UP-CHAMI	LW-CHAMI	R-MUCUYI	MUCUYI	TABAY	R-MUCUJU	MUCUJUN	MERIDA	RS
19.19.	0.00	12.28	0.00	5.04	17.32	17.40	0.00	3.61	21.01	0.00	7.36	28.37	0.00
19.20.	0.00	12.20	0.00	5.00	17.20	17.27	0.00	3.58	20.85	0.00	7.30	28.14	0.00
19.21.	0.00	12.12	0.00	4.95	17.07	17.14	0.00	3.56	20.70	0.00	7.24	27.93	0.00
19.22.	0.00	12.05	0.00	4.91	16.96	17.02	0.00	3.53	20.55	0.00	7.18	27.73	0.00
19.23.	0.00	11.97	0.00	4.86	16.85	16.91	0.00	3.51	20.42	0.00	7.13	27.55	0.00
20. 0.	0.00	11.91	0.00	4.84	16.75	16.81	0.00	3.48	20.29	0.00	7.08	27.37	0.00
20. 1.	0.00	11.84	0.00	4.81	16.65	16.70	0.00	3.46	20.17	0.00	7.03	27.20	0.00
20. 2.	0.00	11.78	0.00	4.77	16.55	16.61	0.00	3.44	20.05	0.00	6.98	27.03	0.00
20. 3.	0.00	11.72	0.00	4.74	16.47	16.52	0.00	3.42	19.94	0.00	6.94	26.88	0.00
20. 4.	0.00	11.67	0.00	4.71	16.38	16.43	0.00	3.40	19.83	0.00	6.90	26.73	0.00
20. 5.	0.00	11.61	0.00	4.68	16.30	16.34	0.00	3.38	19.73	0.00	6.86	26.58	0.00
20. 6.	0.00	11.55	0.00	4.66	16.22	16.26	0.00	3.37	19.63	0.00	6.83	26.46	0.00
20. 7.	0.00	11.51	0.00	4.63	16.15	16.19	0.00	3.35	19.54	0.00	6.79	26.33	0.00
20. 8.	0.00	11.47	0.00	4.61	16.07	16.11	0.00	3.34	19.45	0.00	6.76	26.21	0.00
20. 9.	0.00	11.42	0.00	4.58	16.01	16.04	0.00	3.32	19.36	0.00	6.72	26.09	0.00
20.10.	0.00	11.38	0.00	4.56	15.94	15.98	0.00	3.31	19.28	0.00	6.69	25.98	0.00
20.11.	0.00	11.34	0.00	4.54	15.88	15.91	0.00	3.29	19.20	0.00	6.66	25.87	0.00
20.12.	0.00	11.30	0.00	4.52	15.82	15.85	0.00	3.28	19.13	0.00	6.63	25.76	0.00
20.13.	0.00	11.26	0.00	4.50	15.76	15.79	0.00	3.27	19.06	0.00	6.61	25.66	0.00
20.14.	0.00	11.23	0.00	4.48	15.70	15.74	0.00	3.25	18.99	0.00	6.58	25.57	0.00
20.15.	0.00	11.19	0.00	4.46	15.65	15.68	0.00	3.24	18.92	0.00	6.56	25.48	0.00
20.16.	0.00	11.16	0.00	4.44	15.60	15.63	0.00	3.23	18.86	0.00	6.53	25.39	0.00
20.17.	0.00	11.12	0.00	4.42	15.55	15.58	0.00	3.22	18.79	0.00	6.51	25.30	0.00
20.18.	0.00	11.09	0.00	4.41	15.50	15.53	0.00	3.21	18.73	0.00	6.49	25.22	0.00
20.19.	0.00	11.06	0.00	4.39	15.45	15.48	0.00	3.20	18.68	0.00	6.46	25.14	0.00
20.20.	0.00	11.03	0.00	4.38	15.41	15.43	0.00	3.19	18.62	0.00	6.44	25.07	0.00
20.21.	0.00	11.01	0.00	4.36	15.37	15.39	0.00	3.18	18.57	0.00	6.42	24.99	0.00
20.22.	0.00	10.98	0.00	4.35	15.33	15.35	0.00	3.17	18.52	0.00	6.40	24.92	0.00
20.23.	0.00	10.95	0.00	4.33	15.28	15.31	0.00	3.16	18.47	0.00	6.39	24.85	0.00
21. 0.	0.00	10.93	0.00	4.32	15.25	15.27	0.00	3.15	18.42	0.00	6.37	24.79	0.00
21. 1.	0.00	10.90	0.00	4.30	15.21	15.23	0.00	3.14	18.37	0.00	6.35	24.72	0.00
21. 2.	0.00	10.88	0.00	4.29	15.17	15.19	0.00	3.13	18.33	0.00	6.33	24.66	0.00
21. 3.	0.00	10.86	0.00	4.28	15.14	15.16	0.00	3.13	18.28	0.00	6.32	24.60	0.00
21. 4.	0.00	10.84	0.00	4.27	15.10	15.12	0.00	3.12	18.24	0.00	6.30	24.54	0.00
21. 5.	0.00	10.81	0.00	4.26	15.07	15.09	0.00	3.11	18.20	0.00	6.29	24.49	0.00
21. 6.	0.00	10.79	0.00	4.24	15.04	15.06	0.00	3.10	18.16	0.00	6.27	24.43	0.00
21. 7.	0.00	10.77	0.00	4.23	15.01	15.02	0.00	3.10	18.12	0.00	6.26	24.38	0.00
21. 8.	0.00	10.75	0.00	4.22	14.98	14.99	0.00	3.09	18.08	0.00	6.24	24.33	0.00
21. 9.	0.00	10.73	0.00	4.21	14.95	14.96	0.00	3.08	18.05	0.00	6.23	24.28	0.00
21.10.	0.00	10.72	0.00	4.20	14.92	14.92	0.00	3.08	18.01	0.00	6.22	24.23	0.00
21.11.	0.00	10.70	0.00	4.19	14.89	14.91	0.00	3.07	17.98	0.00	6.21	24.18	0.00
21.12.	0.00	10.68	0.00	4.18	14.86	14.88	0.00	3.06	17.94	0.00	6.19	24.14	0.00
21.13.	0.00	10.66	0.00	4.17	14.84	14.84	0.00	3.06	17.91	0.00	6.18	24.09	0.00
21.14.	0.00	10.65	0.00	4.17	14.81	14.83	0.00	3.05	17.88	0.00	6.17	24.05	0.00
21.15.	0.00	10.63	0.00	4.16	14.79	14.80	0.00	3.05	17.85	0.00	6.16	24.01	0.00
21.16.	0.00	10.62	0.00	4.15	14.76	14.78	0.00	3.04	17.82	0.00	6.15	23.97	0.00
21.17.	0.00	10.60	0.00	4.14	14.74	14.75	0.00	3.04	17.79	0.00	6.14	23.93	0.00
21.18.	0.00	10.59	0.00	4.13	14.72	14.73	0.00	3.03	17.76	0.00	6.13	23.89	0.00
21.19.	0.00	10.57	0.00	4.12	14.70	14.71	0.00	3.03	17.74	0.00	6.12	23.85	0.00
21.20.	0.00	10.56	0.00	4.12	14.68	14.69	0.00	3.02	17.71	0.00	6.11	23.82	0.00
21.21.	0.00	10.55	0.00	4.11	14.65	14.67	0.00	3.02	17.68	0.00	6.10	23.78	0.00
21.22.	0.00	10.53	0.00	4.10	14.63	14.65	0.00	3.01	17.66	0.00	6.09	23.75	0.00

TIME	Q5	UP-CHAM2	LW-CHAM2	R-ALBARR	ALBARR.	EJIDO	R7	Q7	EJIDO+07	R-UP-NS	UPPER NS	R-LW-NS	LOWER NS
19.19.	7.20	35.57	35.78	0.00	4.71	40.49	0.00	3.66	44.15	0.00	10.33	0.00	12.20
19.20.	7.14	35.28	35.48	0.00	4.67	40.15	0.00	3.62	43.77	0.00	10.27	0.00	12.10
19.21.	7.08	35.01	35.20	0.00	4.63	39.83	0.00	3.59	43.42	0.00	10.20	0.00	12.00
19.22.	7.02	34.74	34.93	0.00	4.60	39.53	0.00	3.56	43.09	0.00	10.15	0.00	11.90
19.23.	6.96	34.51	34.68	0.00	4.56	39.24	0.00	3.54	42.78	0.00	10.09	0.00	11.81
20. 0.	6.91	34.28	34.44	0.00	4.53	38.97	0.00	3.51	42.48	0.00	10.04	0.00	11.73
20. 1.	6.86	34.05	34.21	0.00	4.50	38.71	0.00	3.48	42.19	0.00	9.99	0.00	11.65
20. 2.	6.81	33.84	33.99	0.00	4.47	38.46	0.00	3.46	41.92	0.00	9.94	0.00	11.57
20. 3.	6.77	33.64	33.78	0.00	4.44	38.23	0.00	3.44	41.66	0.00	9.89	0.00	11.50
20. 4.	6.72	33.45	33.59	0.00	4.42	38.00	0.00	3.42	41.42	0.00	9.85	0.00	11.43
20. 5.	6.68	33.27	33.40	0.00	4.39	37.79	0.00	3.40	41.18	0.00	9.80	0.00	11.36
20. 6.	6.64	33.10	33.22	0.00	4.37	37.59	0.00	3.38	40.96	0.00	9.76	0.00	11.30
20. 7.	6.57	32.93	33.05	0.00	4.34	37.39	0.00	3.36	40.75	0.00	9.72	0.00	11.23
20. 8.	6.53	32.77	32.88	0.00	4.32	37.21	0.00	3.34	40.54	0.00	9.69	0.00	11.18
20. 9.	6.53	32.62	32.73	0.00	4.30	37.03	0.00	3.32	40.35	0.00	9.65	0.00	11.12
20.10.	6.50	32.47	32.58	0.00	4.28	36.86	0.00	3.30	40.16	0.00	9.61	0.00	11.07
20.11.	6.47	32.33	32.43	0.00	4.26	36.69	0.00	3.29	39.98	0.00	9.58	0.00	11.02
20.12.	6.44	32.20	32.29	0.00	4.24	36.54	0.00	3.27	39.81	0.00	9.55	0.00	10.97
20.13.	6.41	32.07	32.16	0.00	4.23	36.39	0.00	3.26	39.64	0.00	9.52	0.00	10.92
20.14.	6.38	31.95	32.03	0.00	4.21	36.24	0.00	3.24	39.48	0.00	9.49	0.00	10.88
20.15.	6.35	31.83	31.91	0.00	4.19	36.10	0.00	3.23	39.33	0.00	9.46	0.00	10.83
20.16.	6.32	31.71	31.79	0.00	4.18	35.97	0.00	3.22	39.18	0.00	9.43	0.00	10.79
20.17.	6.30	31.60	31.68	0.00	4.16	35.84	0.00	3.20	39.04	0.00	9.40	0.00	10.75
20.18.	6.27	31.50	31.57	0.00	4.15	35.72	0.00	3.19	38.91	0.00	9.38	0.00	10.71
20.19.	6.25	31.39	31.46	0.00	4.13	35.60	0.00	3.18	38.78	0.00	9.35	0.00	10.68
20.20.	6.23	31.29	31.36	0.00	4.12	35.48	0.00	3.17	38.65	0.00	9.33	0.00	10.64
20.21.	6.21	31.20	31.26	0.00	4.11	35.37	0.00	3.16	38.53	0.00	9.30	0.00	10.61
20.22.	6.18	31.11	31.17	0.00	4.10	35.26	0.00	3.15	38.41	0.00	9.28	0.00	10.57
20.23.	6.16	31.02	31.08	0.00	4.08	35.16	0.00	3.14	38.30	0.00	9.26	0.00	10.54
21. 0.	6.14	30.93	30.99	0.00	4.07	35.06	0.00	3.13	38.19	0.00	9.24	0.00	10.51
21. 1.	6.12	30.85	30.90	0.00	4.06	34.96	0.00	3.12	38.08	0.00	9.22	0.00	10.48
21. 2.	6.11	30.77	30.82	0.00	4.05	34.87	0.00	3.11	37.98	0.00	9.20	0.00	10.45
21. 3.	6.09	30.69	30.74	0.00	4.04	34.78	0.00	3.10	37.88	0.00	9.18	0.00	10.42
21. 4.	6.07	30.61	30.66	0.00	4.03	34.69	0.00	3.09	37.78	0.00	9.16	0.00	10.40
21. 5.	6.05	30.54	30.59	0.00	4.02	34.61	0.00	3.08	37.69	0.00	9.14	0.00	10.37
21. 6.	6.04	30.47	30.52	0.00	4.01	34.53	0.00	3.07	37.60	0.00	9.12	0.00	10.35
21. 7.	6.02	30.40	30.45	0.00	4.00	34.45	0.00	3.06	37.51	0.00	9.10	0.00	10.32
21. 8.	6.01	30.33	30.38	0.00	3.99	34.37	0.00	3.06	37.42	0.00	9.09	0.00	10.30
21. 9.	5.99	30.27	30.31	0.00	3.98	34.29	0.00	3.05	37.34	0.00	9.07	0.00	10.27
21.10.	5.98	30.21	30.25	0.00	3.97	34.22	0.00	3.04	37.26	0.00	9.06	0.00	10.25
21.11.	5.96	30.14	30.19	0.00	3.97	34.15	0.00	3.03	37.19	0.00	9.04	0.00	10.23
21.12.	5.95	30.09	30.13	0.00	3.96	34.08	0.00	3.03	37.11	0.00	9.03	0.00	10.21
21.13.	5.93	30.03	30.07	0.00	3.95	34.02	0.00	3.02	37.04	0.00	9.01	0.00	10.19
21.14.	5.92	29.97	30.01	0.00	3.94	33.95	0.00	3.01	36.97	0.00	9.00	0.00	10.17
21.15.	5.91	29.92	29.95	0.00	3.93	33.89	0.00	3.01	36.90	0.00	8.98	0.00	10.15
21.16.	5.90	29.86	29.90	0.00	3.93	33.83	0.00	3.00	36.83	0.00	8.97	0.00	10.13
21.17.	5.88	29.81	29.85	0.00	3.92	33.77	0.00	3.00	36.76	0.00	8.96	0.00	10.11
21.18.	5.87	29.76	29.80	0.00	3.91	33.71	0.00	2.99	36.70	0.00	8.94	0.00	10.10
21.19.	5.86	29.71	29.75	0.00	3.91	33.65	0.00	2.98	36.64	0.00	8.93	0.00	10.08
21.20.	5.85	29.67	29.70	0.00	3.90	33.60	0.00	2.98	36.58	0.00	8.92	0.00	10.06
21.21.	5.84	29.62	29.65	0.00	3.90	33.55	0.00	2.97	36.52	0.00	8.91	0.00	10.04
21.22.	5.83	29.57	29.61	0.00	3.89	33.49	0.00	2.97	36.46	0.00	8.90	0.00	10.03

TIME	M. SENORA	W/ NS	R-GONZAL	GONZALEZ W/ GONZ.	R11	Q11	W/ Q11	R12	Q12	W/ Q12	R-VIZCAI	VIZCAINA
19.19.	22.54	66.68	0.00	4.11	70.79	2.20	72.99	0.00	2.27	75.26	0.00	4.88
19.20.	22.36	66.14	0.00	4.07	70.21	2.19	72.40	0.00	2.25	74.65	0.00	4.83
19.21.	22.20	65.63	0.00	4.04	69.67	2.17	71.84	0.00	2.23	74.07	0.00	4.80
19.22.	22.05	65.14	0.00	4.02	69.16	2.16	71.31	0.00	2.21	73.53	0.00	4.76
19.23.	21.90	64.68	0.00	3.99	68.67	2.15	70.81	0.00	2.19	73.01	0.00	4.72
20.0.	21.76	64.24	0.00	3.96	68.20	2.14	70.34	0.00	2.18	72.52	0.00	4.69
20.1.	21.63	63.82	0.00	3.94	67.76	2.12	69.89	0.00	2.16	72.05	0.00	4.66
20.2.	21.51	63.41	0.00	3.92	67.34	2.11	69.46	0.00	2.15	71.60	0.00	4.63
20.3.	21.39	63.05	0.00	3.89	66.94	2.10	69.05	0.00	2.13	71.18	0.00	4.60
20.4.	21.27	62.69	0.00	3.87	66.56	2.09	68.66	0.00	2.12	70.78	0.00	4.57
20.5.	21.16	62.35	0.00	3.85	66.20	2.08	68.28	0.00	2.11	70.39	0.00	4.54
20.6.	21.06	62.02	0.00	3.83	65.85	2.07	67.93	0.00	2.09	70.02	0.00	4.52
20.7.	20.96	61.71	0.00	3.81	65.52	2.07	67.59	0.00	2.08	69.67	0.00	4.49
20.8.	20.86	61.41	0.00	3.80	65.20	2.06	67.26	0.00	2.07	69.33	0.00	4.47
20.9.	20.77	61.12	0.00	3.78	64.90	2.06	66.95	0.00	2.06	69.01	0.00	4.45
20.10.	20.68	60.84	0.00	3.76	64.61	2.04	66.65	0.00	2.05	68.70	0.00	4.43
20.11.	20.60	60.58	0.00	3.75	64.33	2.03	66.36	0.00	2.04	68.40	0.00	4.41
20.12.	20.52	60.33	0.00	3.73	64.06	2.03	66.09	0.00	2.03	68.11	0.00	4.39
20.13.	20.44	60.08	0.00	3.72	63.80	2.02	65.82	0.00	2.02	67.84	0.00	4.37
20.14.	20.36	59.85	0.00	3.70	63.55	2.01	65.57	0.00	2.01	67.58	0.00	4.35
20.15.	20.29	59.62	0.00	3.69	63.31	2.01	65.32	0.00	2.00	67.32	0.00	4.34
20.16.	20.22	59.41	0.00	3.68	63.09	2.00	65.09	0.00	1.99	67.08	0.00	4.32
20.17.	20.16	59.20	0.00	3.67	62.87	2.00	64.86	0.00	1.98	66.84	0.00	4.30
20.18.	20.09	59.00	0.00	3.65	62.65	1.99	64.64	0.00	1.98	66.62	0.00	4.29
20.19.	20.03	58.81	0.00	3.64	62.45	1.98	64.43	0.00	1.97	66.40	0.00	4.27
20.20.	19.97	58.62	0.00	3.63	62.25	1.98	64.23	0.00	1.96	66.19	0.00	4.26
20.21.	19.91	58.44	0.00	3.62	62.06	1.97	64.03	0.00	1.95	65.99	0.00	4.25
20.22.	19.86	58.27	0.00	3.61	61.87	1.97	63.84	0.00	1.95	65.79	0.00	4.23
20.23.	19.80	58.10	0.00	3.60	61.70	1.96	63.66	0.00	1.94	65.60	0.00	4.22
21.0.	19.75	57.94	0.00	3.59	61.53	1.96	63.48	0.00	1.94	65.42	0.00	4.21
21.1.	19.70	57.78	0.00	3.58	61.36	1.95	63.31	0.00	1.93	65.24	0.00	4.20
21.2.	19.65	57.63	0.00	3.57	61.20	1.95	63.15	0.00	1.92	65.07	0.00	4.18
21.3.	19.60	57.48	0.00	3.56	61.04	1.95	62.99	0.00	1.92	64.90	0.00	4.17
21.4.	19.56	57.34	0.00	3.55	60.89	1.94	62.83	0.00	1.91	64.74	0.00	4.16
21.5.	19.51	57.20	0.00	3.55	60.75	1.94	62.68	0.00	1.91	64.59	0.00	4.15
21.6.	19.47	57.07	0.00	3.54	60.60	1.93	62.54	0.00	1.90	64.44	0.00	4.14
21.7.	19.43	56.94	0.00	3.53	60.47	1.93	62.40	0.00	1.90	64.29	0.00	4.13
21.8.	19.39	56.81	0.00	3.52	60.33	1.93	62.26	0.00	1.89	64.15	0.00	4.12
21.9.	19.35	56.69	0.00	3.51	60.20	1.92	62.13	0.00	1.89	64.01	0.00	4.11
21.10.	19.31	56.57	0.00	3.51	60.08	1.92	62.00	0.00	1.88	63.88	0.00	4.11
21.11.	19.27	56.46	0.00	3.50	59.96	1.91	61.87	0.00	1.88	63.75	0.00	4.10
21.12.	19.24	56.34	0.00	3.49	59.84	1.91	61.75	0.00	1.87	63.62	0.00	4.08
21.13.	19.20	56.24	0.00	3.49	59.72	1.91	61.63	0.00	1.86	63.50	0.00	4.07
21.14.	19.17	56.13	0.00	3.48	59.61	1.90	61.52	0.00	1.86	63.38	0.00	4.07
21.15.	19.13	56.03	0.00	3.48	59.50	1.90	61.41	0.00	1.86	63.27	0.00	4.06
21.16.	19.10	55.93	0.00	3.47	59.40	1.90	61.30	0.00	1.86	63.15	0.00	4.06
21.17.	19.07	55.83	0.00	3.46	59.30	1.90	61.19	0.00	1.85	63.04	0.00	4.05
21.18.	19.04	55.74	0.00	3.46	59.20	1.89	61.09	0.00	1.85	62.94	0.00	4.04
21.19.	19.01	55.65	0.00	3.45	59.10	1.89	60.99	0.00	1.84	62.83	0.00	4.04
21.20.	18.98	55.56	0.00	3.45	59.00	1.88	60.89	0.00	1.84	62.73	0.00	4.03
21.21.	18.95	55.47	0.00	3.44	58.91	1.88	60.80	0.00	1.84	62.63	0.00	4.02
21.22.	18.92	55.39	0.00	3.44	58.82	1.88	60.70	0.00	1.83	62.54	0.00	4.02

TIME	W/ VITZCA	R14	Q14	UP-CHAM3 LW-CHAM3	R15	Q15	W/ Q15	R-S-PABL	S-PABLO	W/S-PABL	R-S-DOMI	S-DOMING
19.19.	80.14	0.00	7.11	87.25	0.00	1.72	92.87	0.00	9.52	102.39	0.00	2.68
19.20.	79.48	0.00	7.05	86.55	0.00	1.70	91.92	0.00	9.45	101.37	0.00	2.66
19.21.	78.87	0.00	6.99	85.85	0.00	1.69	91.03	0.00	9.38	100.41	0.00	2.64
19.22.	78.28	0.00	6.93	85.21	0.00	1.67	90.19	0.00	9.31	99.50	0.00	2.62
19.23.	77.73	0.00	6.87	84.60	0.00	1.66	89.39	0.00	9.25	98.64	0.00	2.61
20.0.	77.21	0.00	6.82	84.00	0.00	1.65	88.64	0.00	9.19	97.83	0.00	2.59
20.1.	76.71	0.00	6.77	83.47	0.00	1.63	87.93	0.00	9.13	97.06	0.00	2.57
20.2.	76.23	0.00	6.72	82.95	0.00	1.62	87.26	0.00	9.08	96.33	0.00	2.56
20.3.	75.78	0.00	6.67	82.45	0.00	1.61	86.62	0.00	9.02	95.64	0.00	2.54
20.4.	75.33	0.00	6.63	81.98	0.00	1.60	86.01	0.00	8.97	94.99	0.00	2.53
20.5.	74.93	0.00	6.59	81.52	0.00	1.59	85.44	0.00	8.93	94.36	0.00	2.51
20.6.	74.54	0.00	6.55	81.09	0.00	1.58	84.89	0.00	8.88	93.77	0.00	2.50
20.7.	74.16	0.00	6.51	80.67	0.00	1.57	84.36	0.00	8.84	93.20	0.00	2.49
20.8.	73.80	0.00	6.48	80.28	0.00	1.56	83.87	0.00	8.80	92.66	0.00	2.48
20.9.	73.46	0.00	6.44	79.90	0.00	1.55	83.39	0.00	8.76	92.15	0.00	2.47
20.10.	73.13	0.00	6.41	79.53	0.00	1.55	82.94	0.00	8.72	91.66	0.00	2.45
20.11.	72.81	0.00	6.38	79.19	0.00	1.54	82.50	0.00	8.68	91.19	0.00	2.44
20.12.	72.50	0.00	6.35	78.85	0.00	1.53	82.09	0.00	8.65	90.74	0.00	2.43
20.13.	72.21	0.00	6.32	78.53	0.00	1.52	81.69	0.00	8.62	90.31	0.00	2.42
20.14.	71.93	0.00	6.29	78.22	0.00	1.52	81.31	0.00	8.58	89.89	0.00	2.41
20.15.	71.66	0.00	6.26	77.92	0.00	1.51	80.94	0.00	8.55	89.50	0.00	2.40
20.16.	71.40	0.00	6.24	77.64	0.00	1.50	80.56	0.00	8.52	89.12	0.00	2.39
20.17.	71.15	0.00	6.21	77.36	0.00	1.49	80.20	0.00	8.49	88.75	0.00	2.38
20.18.	70.91	0.00	6.19	77.09	0.00	1.48	79.82	0.00	8.44	88.06	0.00	2.37
20.19.	70.67	0.00	6.16	76.84	0.00	1.47	79.44	0.00	8.41	87.74	0.00	2.37
20.20.	70.45	0.00	6.14	76.59	0.00	1.46	78.99	0.00	8.39	87.42	0.00	2.36
20.21.	70.23	0.00	6.12	76.35	0.00	1.45	78.53	0.00	8.37	87.12	0.00	2.35
20.22.	70.02	0.00	6.10	76.12	0.00	1.44	78.06	0.00	8.34	86.83	0.00	2.34
20.23.	69.82	0.00	6.08	75.90	0.00	1.44	77.59	0.00	8.32	86.55	0.00	2.33
21.0.	69.63	0.00	6.06	75.69	0.00	1.43	77.14	0.00	8.30	86.28	0.00	2.33
21.1.	69.44	0.00	6.04	75.48	0.00	1.43	76.66	0.00	8.28	86.02	0.00	2.33
21.2.	69.26	0.00	6.02	75.28	0.00	1.42	76.27	0.00	8.26	85.77	0.00	2.32
21.3.	69.08	0.00	6.01	75.08	0.00	1.42	75.81	0.00	8.24	85.52	0.00	2.31
21.4.	68.91	0.00	5.99	74.90	0.00	1.41	75.36	0.00	8.22	85.29	0.00	2.31
21.5.	68.74	0.00	5.97	74.71	0.00	1.41	74.91	0.00	8.20	85.06	0.00	2.30
21.6.	68.58	0.00	5.96	74.54	0.00	1.41	74.46	0.00	8.18	84.84	0.00	2.30
21.7.	68.42	0.00	5.94	74.36	0.00	1.41	74.01	0.00	8.16	84.63	0.00	2.29
21.8.	68.27	0.00	5.93	74.20	0.00	1.41	73.56	0.00	8.15	84.42	0.00	2.29
21.9.	68.13	0.00	5.91	74.04	0.00	1.41	73.11	0.00	8.13	84.22	0.00	2.28
21.10.	67.98	0.00	5.90	73.88	0.00	1.41	72.66	0.00	8.12	84.02	0.00	2.28
21.11.	67.85	0.00	5.88	73.73	0.00	1.41	72.21	0.00	8.10	83.83	0.00	2.27
21.12.	67.71	0.00	5.87	73.58	0.00	1.41	71.76	0.00	8.09	83.65	0.00	2.27
21.13.	67.58	0.00	5.86	73.44	0.00	1.40	71.31	0.00	8.07	83.47	0.00	2.26
21.14.	67.45	0.00	5.84	73.30	0.00	1.40	70.86	0.00	8.06	83.30	0.00	2.26
21.15.	67.33	0.00	5.83	73.16	0.00	1.40	70.41	0.00	8.04	83.13	0.00	2.26
21.16.	67.21	0.00	5.82	73.03	0.00	1.40	69.96	0.00	8.03	82.97	0.00	2.25
21.17.	67.09	0.00	5.81	72.90	0.00	1.39	69.51	0.00	8.02	82.81	0.00	2.25
21.18.	66.98	0.00	5.80	72.78	0.00	1.39	69.06	0.00	8.00	82.66	0.00	2.24
21.19.	66.87	0.00	5.79	72.66	0.00	1.39	68.61	0.00	7.99	82.51	0.00	2.24
21.20.	66.76	0.00	5.78	72.54	0.00	1.38	68.16	0.00	7.98	82.36	0.00	2.24
21.21.	66.66	0.00	5.77	72.42	0.00	1.38	67.71	0.00	7.97	82.22	0.00	2.23
21.22.	66.55	0.00	5.76	72.31	0.00	1.38	67.26	0.00	7.97	82.08	0.00	2.23



TIME	W/S/DOMI	R-UP-MOC	UP-MOCOT	LM-MOCOT	R19	Q19	W/Q19	R-MEJIAS	MEJIAS	W/MEJIA	W/MOCOT	R21	O21
19.19.	105.08	0.00	8.33	8.38	0.00	6.36	14.74	0.00	4.32	19.06	124.14	0.00	5.24
19.20.	104.03	0.00	8.27	8.32	0.00	6.31	14.63	0.00	4.28	18.92	122.95	0.00	5.20
19.21.	103.05	0.00	8.22	8.26	0.00	6.27	14.53	0.00	4.25	18.78	121.83	0.00	5.17
19.22.	102.12	0.00	8.16	8.21	0.00	6.22	14.43	0.00	4.22	18.65	120.77	0.00	5.14
19.23.	101.25	0.00	8.11	8.15	0.00	6.18	14.33	0.00	4.19	18.53	119.77	0.00	5.11
20.0.	100.42	0.00	8.07	8.10	0.00	6.14	14.24	0.00	4.16	18.41	118.82	0.00	5.08
20.1.	99.63	0.00	8.02	8.06	0.00	6.10	14.16	0.00	4.14	18.29	117.93	0.00	5.05
20.2.	98.89	0.00	7.98	8.01	0.00	6.06	14.07	0.00	4.11	18.19	117.08	0.00	5.02
20.3.	98.18	0.00	7.93	7.97	0.00	6.03	14.00	0.00	4.09	18.08	116.27	0.00	5.00
20.4.	97.51	0.00	7.89	7.93	0.00	5.99	13.92	0.00	4.07	17.99	115.50	0.00	4.97
20.5.	96.88	0.00	7.86	7.89	0.00	5.96	13.85	0.00	4.04	17.89	114.77	0.00	4.95
20.6.	96.27	0.00	7.82	7.85	0.00	5.93	13.78	0.00	4.02	17.80	114.07	0.00	4.93
20.7.	95.69	0.00	7.78	7.81	0.00	5.90	13.71	0.00	4.00	17.72	113.41	0.00	4.90
20.8.	95.14	0.00	7.75	7.78	0.00	5.87	13.65	0.00	3.98	17.63	112.77	0.00	4.88
20.9.	94.62	0.00	7.72	7.74	0.00	5.84	13.59	0.00	3.96	17.55	112.17	0.00	4.86
20.10.	94.11	0.00	7.69	7.71	0.00	5.82	13.53	0.00	3.95	17.48	111.59	0.00	4.84
20.11.	93.63	0.00	7.66	7.68	0.00	5.79	13.47	0.00	3.93	17.40	111.03	0.00	4.83
20.12.	93.17	0.00	7.63	7.65	0.00	5.77	13.42	0.00	3.91	17.33	110.50	0.00	4.81
20.13.	92.73	0.00	7.60	7.62	0.00	5.74	13.37	0.00	3.90	17.26	110.00	0.00	4.79
20.14.	92.31	0.00	7.57	7.60	0.00	5.72	13.32	0.00	3.88	17.20	109.51	0.00	4.77
20.15.	91.90	0.00	7.55	7.57	0.00	5.70	13.27	0.00	3.87	17.14	109.04	0.00	4.76
20.16.	91.51	0.00	7.52	7.54	0.00	5.68	13.22	0.00	3.85	17.08	108.59	0.00	4.74
20.17.	91.14	0.00	7.50	7.52	0.00	5.66	13.18	0.00	3.84	17.02	108.16	0.00	4.73
20.18.	90.78	0.00	7.48	7.50	0.00	5.64	13.13	0.00	3.83	16.96	107.74	0.00	4.71
20.19.	90.44	0.00	7.46	7.47	0.00	5.62	13.09	0.00	3.81	16.91	107.34	0.00	4.70
20.20.	90.10	0.00	7.43	7.45	0.00	5.60	13.05	0.00	3.80	16.85	106.96	0.00	4.69
20.21.	89.78	0.00	7.41	7.43	0.00	5.58	13.01	0.00	3.79	16.80	106.58	0.00	4.67
20.22.	89.47	0.00	7.39	7.41	0.00	5.56	12.97	0.00	3.78	16.75	106.23	0.00	4.66
20.23.	89.18	0.00	7.37	7.39	0.00	5.55	12.94	0.00	3.77	16.70	105.88	0.00	4.65
21.0.	88.89	0.00	7.36	7.37	0.00	5.53	12.90	0.00	3.76	16.66	105.55	0.00	4.64
21.1.	88.61	0.00	7.34	7.35	0.00	5.51	12.87	0.00	3.75	16.61	105.23	0.00	4.63
21.2.	88.35	0.00	7.32	7.33	0.00	5.50	12.83	0.00	3.74	16.57	104.92	0.00	4.61
21.3.	88.09	0.00	7.30	7.32	0.00	5.48	12.80	0.00	3.73	16.53	104.62	0.00	4.60
21.4.	87.84	0.00	7.29	7.30	0.00	5.47	12.77	0.00	3.72	16.49	104.33	0.00	4.59
21.5.	87.60	0.00	7.27	7.28	0.00	5.46	12.74	0.00	3.71	16.45	104.04	0.00	4.58
21.6.	87.36	0.00	7.26	7.27	0.00	5.44	12.71	0.00	3.70	16.41	103.77	0.00	4.57
21.7.	87.14	0.00	7.24	7.25	0.00	5.43	12.68	0.00	3.69	16.37	103.51	0.00	4.56
21.8.	86.92	0.00	7.23	7.24	0.00	5.42	12.65	0.00	3.68	16.34	103.25	0.00	4.55
21.9.	86.71	0.00	7.21	7.22	0.00	5.40	12.63	0.00	3.67	16.30	103.01	0.00	4.55
21.10.	86.50	0.00	7.20	7.21	0.00	5.39	12.60	0.00	3.67	16.27	102.77	0.00	4.54
21.11.	86.30	0.00	7.19	7.20	0.00	5.38	12.58	0.00	3.66	16.23	102.54	0.00	4.53
21.12.	86.11	0.00	7.17	7.18	0.00	5.37	12.55	0.00	3.65	16.20	102.31	0.00	4.52
21.13.	85.92	0.00	7.16	7.17	0.00	5.36	12.53	0.00	3.64	16.17	102.09	0.00	4.51
21.14.	85.74	0.00	7.15	7.16	0.00	5.34	12.50	0.00	3.64	16.14	101.88	0.00	4.50
21.15.	85.56	0.00	7.14	7.15	0.00	5.33	12.48	0.00	3.63	16.11	101.67	0.00	4.50
21.16.	85.39	0.00	7.12	7.13	0.00	5.32	12.46	0.00	3.62	16.08	101.47	0.00	4.49
21.17.	85.22	0.00	7.11	7.12	0.00	5.31	12.44	0.00	3.62	16.05	101.28	0.00	4.48
21.18.	85.06	0.00	7.10	7.11	0.00	5.30	12.41	0.00	3.61	16.03	101.09	0.00	4.47
21.19.	84.90	0.00	7.09	7.10	0.00	5.29	12.39	0.00	3.61	16.00	100.90	0.00	4.47
21.20.	84.75	0.00	7.08	7.09	0.00	5.28	12.37	0.00	3.60	15.97	100.72	0.00	4.46
21.21.	84.60	0.00	7.07	7.08	0.00	5.27	12.35	0.00	3.60	15.95	100.55	0.00	4.45
21.22.	84.46	0.00	7.06	7.07	0.00	5.27	12.33	0.00	3.59	15.92	100.38	0.00	4.45

EL VIGIA

19.19.	129.38
19.20.	128.15
19.21.	127.00
19.22.	125.91
19.23.	124.88
20.0.	123.90
20.1.	122.98
20.2.	122.10
20.3.	121.27
20.4.	120.47
20.5.	119.72
20.6.	119.00
20.7.	118.31
20.8.	117.66
20.9.	117.03
20.10.	116.43
20.11.	115.86
20.12.	115.31
20.13.	114.79
20.14.	114.28
20.15.	113.80
20.16.	113.33
20.17.	112.89
20.18.	112.46
20.19.	112.04
20.20.	111.64
20.21.	111.26
20.22.	110.89
20.23.	110.53
21.0.	110.19
21.1.	109.85
21.2.	109.53
21.3.	109.22
21.4.	108.92
21.5.	108.63
21.6.	108.35
21.7.	108.07
21.8.	107.81
21.9.	107.55
21.10.	107.30
21.11.	107.06
21.12.	106.83
21.13.	106.60
21.14.	106.38
21.15.	106.17
21.16.	105.96
21.17.	105.76
21.18.	105.56
21.19.	105.37
21.20.	105.18
21.21.	105.00
21.22.	104.83

## NON-UNIFORM CALCULATION RESULTS (I)

(No. 0.0 K to No. 74.0 K)

### Study Cases

Case 1: 50 m<sup>3</sup>/s of discharge

Case 2: 100 m<sup>3</sup>/s of discharge

Case 3: 150 m<sup>3</sup>/s of discharge

### Abbreviations

No. : Number of Section

H : Water Level

A : Current Area

R : Hydraulic Radius

V : Current Velocity

N : Manning's Roughness Coefficient

Q : Discharge

DX : Distance between two sections

FROUD : Froude's Number

IE : Energy gradient

CASE NO. 1

PAGE 1

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NO	H	A	R	V	N	Q	DX	A*R**(2/3)	FROUD	IE
0.0	3.000	72.9	1.387	0.686	0.035	50.0	0.0	90.674	0.18600+00	0.3725D-03
0.500	3.189	71.0	1.397	0.704	0.035	50.0	500.0	88.739	0.19030+00	0.3889D-03
1.000	3.370	65.5	1.741	0.788	0.035	50.0	500.0	91.845	0.19070+00	0.3630D-03
1.500	3.552	65.7	1.686	0.762	0.035	50.0	500.0	93.026	0.18730+00	0.3539D-03
2.000	3.725	78.4	1.460	0.637	0.035	50.0	500.0	100.951	0.16850+00	0.3005D-03
2.500	3.847	87.6	1.897	0.571	0.035	50.0	500.0	134.313	0.13230+00	0.1698D-03
3.000	3.920	88.9	2.369	0.563	0.035	50.0	500.0	157.883	0.11680+00	0.1229D-03
3.500	4.062	65.0	1.312	0.769	0.035	50.0	500.0	77.935	0.21440+00	0.5042D-03
4.000	4.352	57.3	1.248	0.873	0.035	50.0	500.0	66.354	0.24970+00	0.6956D-03
4.500	4.657	72.8	1.193	0.687	0.035	50.0	500.0	81.922	0.20080+00	0.5633D-03
5.000	4.891	60.4	1.413	0.827	0.035	50.0	500.0	76.102	0.22230+00	0.5288D-03
5.500	5.205	63.7	1.047	0.785	0.035	50.0	500.0	65.661	0.24510+00	0.7103D-03
6.000	5.517	65.4	1.248	0.765	0.035	50.0	500.0	75.803	0.21860+00	0.5330D-03
6.500	5.714	93.2	1.567	0.525	0.035	50.0	500.0	128.406	0.13410+00	0.1857D-03
7.000	5.877	55.0	1.498	0.910	0.035	50.0	500.0	71.945	0.23750+00	0.5917D-03
7.500	6.160	64.8	1.353	0.771	0.035	50.0	500.0	79.288	0.21190+00	0.4872D-03
8.000	6.347	90.6	1.638	0.552	0.035	50.0	500.0	125.876	0.13780+00	0.1933D-03
8.500	6.445	101.5	1.420	0.493	0.035	50.0	500.0	128.167	0.13210+00	0.1864D-03
9.000	6.797	45.8	1.014	1.092	0.035	50.0	500.0	46.220	0.34630+00	0.1434D-02
9.500	7.247	102.4	1.633	0.488	0.035	50.0	500.0	142.038	0.12200+00	0.1518D-03
10.000	7.351	75.4	1.526	0.663	0.035	50.0	500.0	99.973	0.17140+00	0.3064D-03
10.500	7.545	61.3	1.398	0.816	0.035	50.0	500.0	76.609	0.22050+00	0.5218D-03
11.000	7.778	62.1	1.652	0.805	0.035	50.0	500.0	86.778	0.20010+00	0.6067D-03
11.500	8.020	59.3	1.571	0.844	0.035	50.0	500.0	73.115	0.23020+00	0.5729D-03
12.000	8.260	82.8	1.313	0.604	0.035	50.0	500.0	99.323	0.16830+00	0.3104D-03
12.500	8.411	73.4	1.548	0.681	0.035	50.0	500.0	98.245	0.17480+00	0.3173D-03
13.000	8.559	114.4	1.063	0.437	0.035	50.0	500.0	119.117	0.13550+00	0.2158D-03
13.500	8.707	69.5	1.305	0.720	0.035	50.0	500.0	82.940	0.20130+00	0.4452D-03
14.000	8.949	81.8	0.946	0.611	0.035	50.0	500.0	78.827	0.20080+00	0.4929D-03
14.500	9.177	73.5	1.216	0.680	0.035	50.0	500.0	83.740	0.19700+00	0.4367D-03
15.000	9.577	48.3	1.007	1.036	0.035	50.0	500.0	48.493	0.32970+00	0.1302D-02
15.500	10.011	115.1	0.987	0.434	0.035	50.0	500.0	114.138	0.17710+00	0.2351D-03
16.000	10.165	96.9	0.866	0.516	0.035	50.0	500.0	88.028	0.13960+00	0.3952D-03
16.500	10.442	69.2	0.868	0.723	0.035	50.0	500.0	62.977	0.24770+00	0.7722D-03
17.000	10.840	61.6	0.963	0.812	0.035	50.0	500.0	60.064	0.26420+00	0.8489D-03
17.500	11.259	67.5	0.874	0.741	0.035	50.0	500.0	61.733	0.25300+00	0.8036D-03
18.000	11.652	72.5	0.829	0.690	0.035	50.0	500.0	60.064	0.26420+00	0.8489D-03
18.500	12.038	63.4	0.877	0.789	0.035	50.0	500.0	61.926	0.24210+00	0.7494D-03
19.000	12.388	77.4	1.283	0.646	0.035	50.0	500.0	58.078	0.26910+00	0.9079D-03
19.500	12.593	67.8	1.273	0.738	0.035	50.0	500.0	91.388	0.18220+00	0.3667D-03
20.000	12.803	92.8	1.142	0.539	0.035	50.0	500.0	79.612	0.20890+00	0.4832D-03
20.500	13.036	80.0	0.790	0.625	0.035	50.0	500.0	101.391	0.16110+00	0.2979D-03
21.000	13.305	85.1	1.016	0.588	0.035	50.0	500.0	68.376	0.22460+00	0.6550D-03
21.500	13.651	61.2	0.834	0.817	0.035	50.0	500.0	86.010	0.18620+00	0.6140D-03
22.000	14.045	64.8	1.292	0.771	0.035	50.0	500.0	54.254	0.28560+00	0.1040D-02
22.500	14.370	67.1	0.906	0.745	0.035	50.0	500.0	76.942	0.21670+00	0.5173D-03
23.000	14.733	75.1	0.871	0.666	0.035	50.0	500.0	62.839	0.25000+00	0.7756D-03
23.500	15.148	57.6	0.893	0.868	0.035	50.0	500.0	66.475	0.22790+00	0.6531D-03
24.000	15.529	111.4	0.809	0.449	0.035	50.0	500.0	96.691	0.29360+00	0.1075D-02
24.500	15.886	55.6	0.847	0.899	0.035	50.0	500.0	49.792	0.31200+00	0.1235D-02

NO	H	A	R	V	N	g	DX	A*R**((2/3))	FROUD	IE
23.000	16.377	61.9	1.110	0.808	0.035	50.0	500.00	66.366	0.24490+00	0.69330-03
25.500	16.695	82.6	0.908	0.605	0.035	50.0	500.00	77.426	0.20300+00	0.51090-03
26.000	17.046	71.7	0.721	0.698	0.035	50.0	500.00	57.621	0.26250+00	0.92340-03
26.500	17.547	56.4	0.875	0.886	0.035	50.0	500.00	51.651	0.30240+00	0.11480-02
27.500	18.073	65.9	0.827	0.759	0.035	50.0	500.00	58.078	0.26640+00	0.90790-03
27.500	18.446	89.5	0.784	0.558	0.035	50.0	500.00	76.131	0.20150+00	0.52840-03
28.000	18.630	138.8	0.970	0.360	0.035	50.0	500.00	136.070	0.11680+00	0.16340-03
29.000	18.707	125.8	1.201	0.397	0.035	50.0	500.00	142.203	0.11580+00	0.15140-03
29.000	18.867	112.7	0.583	0.443	0.035	50.0	500.00	78.694	0.18550+00	0.49450-03
29.500	19.298	50.6	0.886	0.989	0.035	50.0	500.00	46.660	0.35350+00	0.14070-02
30.000	20.038	45.2	0.947	1.105	0.035	50.0	500.00	43.629	0.36280+00	0.16090-02
30.500	20.590	84.7	1.042	0.590	0.035	50.0	500.00	87.113	0.18460+00	0.40360-03
31.000	20.979	64.1	0.695	0.780	0.035	50.0	500.00	50.265	0.29900+00	0.12120-02
31.500	21.535	69.6	0.715	0.719	0.035	50.0	500.00	55.639	0.27150+00	0.98930-03
32.000	22.106	58.5	0.737	0.854	0.035	50.0	500.00	47.771	0.31780+00	0.13420-02
32.500	22.715	63.2	0.779	0.792	0.035	50.0	500.00	53.473	0.28650+00	0.10710-02
33.000	23.086	90.2	1.079	0.554	0.035	50.0	500.00	94.905	0.17040+00	0.34000-03
33.500	23.260	84.9	1.118	0.589	0.035	50.0	500.00	91.511	0.17780+00	0.36370-03
34.000	23.629	52.9	0.913	0.945	0.035	50.0	500.00	49.835	0.31570+00	0.12330-02
34.500	24.078	72.5	1.182	0.689	0.035	50.0	500.00	81.084	0.20250+00	0.46580-03
35.000	24.354	67.4	1.020	0.742	0.035	50.0	500.00	68.279	0.23470+00	0.65890-03
35.250	24.488	87.6	1.182	0.571	0.035	50.0	250.00	97.867	0.16780+00	0.31970-03
35.500	24.772	50.7	0.623	0.966	0.035	50.0	250.00	36.992	0.39900+00	0.22380-02
36.000	25.456	88.5	1.083	0.565	0.035	50.0	500.00	93.305	0.17350+00	0.35180-03
36.500	25.657	69.2	1.206	0.722	0.035	50.0	500.00	78.421	0.21010+00	0.49800-03
37.000	25.971	71.9	0.839	0.696	0.035	50.0	500.00	63.947	0.24260+00	0.74890-03
37.500	26.484	54.3	0.806	0.921	0.035	50.0	500.00	47.016	0.32770+00	0.13850-02
38.000	27.036	72.3	0.839	0.692	0.035	50.0	500.00	64.504	0.24120+00	0.74060-03
38.500	27.563	73.6	1.026	0.680	0.035	50.0	500.00	47.364	0.30210+00	0.13450-02
39.000	28.086	62.1	1.026	0.805	0.035	50.0	500.00	63.181	0.25390+00	0.76720-03
39.500	28.603	63.7	0.667	0.785	0.035	50.0	500.00	48.630	0.30700+00	0.12950-02
40.000	29.531	43.4	0.708	1.152	0.035	50.0	500.00	34.485	0.43720+00	0.25750-02
41.500	30.265	153.9	1.327	0.321	0.035	50.0	500.00	188.315	0.88920+01	0.86360-04
42.000	30.323	136.7	1.060	0.366	0.035	50.0	500.00	142.095	0.11350+00	0.15170-03
42.500	30.450	78.4	1.344	0.638	0.035	50.0	500.00	95.444	0.17580+00	0.33420-03
43.000	30.709	59.6	1.013	0.839	0.035	50.0	500.00	60.109	0.26630+00	0.84760-03
43.500	31.331	54.3	0.699	0.920	0.035	50.0	500.00	42.802	0.35160+00	0.16720-02
44.000	31.867	97.5	0.959	0.513	0.035	50.0	500.00	64.783	0.16730+00	0.34090-03
44.500	32.138	90.6	0.592	0.552	0.035	50.0	500.00	93.839	0.28920+00	0.75150-03
45.000	32.565	90.9	0.491	0.550	0.035	50.0	500.00	56.568	0.25080+00	0.95700-03
45.500	33.237	52.1	0.663	0.960	0.035	50.0	500.00	39.632	0.37640+00	0.19500-02
46.000	34.011	73.3	0.675	0.683	0.035	50.0	500.00	56.382	0.26330+00	0.96340-03
46.500	34.419	77.4	0.825	0.646	0.035	50.0	500.00	68.072	0.22720+00	0.66090-03
47.000	34.926	67.1	0.583	0.745	0.035	50.0	500.00	46.843	0.31170+00	0.13960-02
47.500	35.420	87.7	0.803	0.570	0.035	50.0	500.00	75.799	0.20320+00	0.53500-03
48.000	35.823	65.5	0.707	0.763	0.035	50.0	500.00	51.998	0.28990+00	0.11330-02
48.500	36.751	43.9	0.625	1.089	0.035	50.0	500.00	33.579	0.45980+00	0.27160-02
49.000	37.501	284.3	1.354	0.176	0.035	50.0	500.00	57.894	0.48280+01	0.25300-04
49.500	37.717	83.5	0.578	0.599	0.035	50.0	500.00	47.894	0.25180+00	0.91370-03
50.000	38.234	65.6	0.675	0.762	0.035	50.0	500.00	50.491	0.29630+00	0.12010-02

CASE NO. 1

PAGE 3

NO	H	A	R	V	N	g	DX	ARR**(2/3)	FROUD	IE
50.500	38.639	102.0	0.891	0.490	0.035	50.0	500.00	94.434	0.16590+00	0.34340-03
51.000	39.090	53.4	0.740	0.936	0.035	50.0	500.00	43.701	0.34760+00	0.16040-02
51.500	39.773	61.6	0.804	0.811	0.035	50.0	500.00	53.293	0.28900+00	0.10780-02
52.000	40.505	49.9	0.715	1.003	0.035	50.0	500.00	39.878	0.37880+00	0.19260-02
52.500	41.749	61.6	0.376	0.811	0.035	50.0	500.00	32.103	0.42270+00	0.29720-02
53.000	42.536	232.4	1.298	0.215	0.035	50.0	500.00	276.559	0.60320-01	0.40040-04
53.500	42.669	70.3	1.029	0.711	0.035	50.0	500.00	71.636	0.22400+00	0.59680-03
54.000	43.000	59.7	1.068	0.837	0.035	50.0	500.00	62.408	0.25870+00	0.78650-03
54.500	43.658	46.0	0.831	1.088	0.035	50.0	500.00	40.624	0.38120+00	0.18560-02
55.000	45.063	77.8	0.226	0.643	0.035	50.0	500.00	28.867	0.43190+00	0.36750-02
55.500	46.018	196.0	1.190	0.255	0.035	50.0	500.00	220.122	0.74700-01	0.63200-04
56.000	46.129	118.3	0.629	0.423	0.035	50.0	500.00	86.776	0.17030+00	0.40670-03
56.500	46.407	77.5	0.740	0.645	0.035	50.0	500.00	63.404	0.23960+00	0.76180-03
57.000	46.781	70.9	0.858	0.705	0.035	50.0	500.00	63.989	0.24330+00	0.74790-03
57.500	47.734	49.3	0.498	1.014	0.035	50.0	500.00	31.003	0.45870+00	0.31860-02
58.000	48.700	75.2	0.999	0.665	0.035	50.0	500.00	75.099	0.21260+00	0.54300-03
58.500	49.075	64.5	0.797	0.775	0.035	50.0	500.00	55.478	0.27720+00	0.99500-03
59.000	49.727	58.2	0.640	0.860	0.035	50.0	500.00	43.179	0.34330+00	0.16430-02
59.500	50.605	51.9	0.676	0.963	0.035	50.0	500.00	40.022	0.37390+00	0.19120-02
59.500	51.343	86.9	0.547	0.576	0.035	50.0	500.00	58.065	0.24870+00	0.90840-03
60.000	51.832	65.7	0.719	0.762	0.035	50.0	500.00	52.692	0.28690+00	0.11030-02
60.500	52.389	54.2	0.908	0.922	0.035	50.0	500.00	50.815	0.30930+00	0.11860-02
61.000	53.113	56.7	0.649	0.882	0.035	50.0	500.00	42.525	0.34950+00	0.16940-02
61.500	54.573	72.4	0.233	0.690	0.035	50.0	500.00	27.415	0.45700+00	0.40750-02
62.000	55.630	275.8	0.776	0.181	0.035	50.0	500.00	232.969	0.65730-01	0.56430-04
62.500	55.982	87.7	0.387	0.570	0.035	50.0	500.00	46.542	0.29290+00	0.14140-02
63.000	57.174	58.7	0.362	0.852	0.035	50.0	500.00	29.815	0.45220+00	0.34450-02
63.500	58.515	74.4	0.403	0.672	0.035	50.0	500.00	40.576	0.33820+00	0.18600-02
64.000	59.014	365.7	0.707	0.137	0.035	50.0	500.00	290.286	0.51940-01	0.36340-04
64.500	59.715	62.4	0.375	0.801	0.035	50.0	500.00	32.456	0.41790+00	0.29070-02
65.000	60.911	76.2	0.394	1.055	0.035	50.0	500.00	40.918	0.33410+00	0.18290-02
65.500	62.564	47.4	0.381	0.656	0.035	50.0	500.00	24.904	0.54610+00	0.49380-02
66.000	63.862	723.2	1.124	0.069	0.035	50.0	500.00	781.665	0.20830-01	0.50120-05
66.500	65.462	33.5	0.227	1.491	0.035	50.0	500.00	12.479	0.10000+01	0.19660-01
67.000	70.503	2135.2	3.301	0.023	0.035	50.0	500.00	4733.545	0.41170-02	0.13670-06
67.500	70.506	475.7	0.955	0.105	0.035	50.0	500.00	431.425	0.34330-01	0.14380-04
68.000	72.218	29.6	0.291	1.688	0.035	50.0	500.00	13.003	0.10000+01	0.18110-01
68.500	76.907	657.6	1.869	0.076	0.035	50.0	500.00	977.872	0.17760-01	0.30760-05
69.000	77.727	58.1	0.368	0.861	0.035	50.0	500.00	29.823	0.45330+00	0.34430-02
69.500	80.189	32.6	0.344	1.532	0.035	50.0	500.00	21.274	0.67460+00	0.67670-02
70.000	82.672	67.8	0.305	1.216	0.035	50.0	500.00	18.639	0.40140+00	0.27600-02
70.500	85.514	41.1	0.105	0.898	0.035	50.0	500.00	32.341	0.70320+00	0.88150-02
71.000	88.325	144.9	0.273	0.105	0.035	50.0	500.00	23.440	0.33950+00	0.29280-02
71.500	90.612	55.7	0.321	1.375	0.035	50.0	500.00	17.055	0.54880+00	0.55740-02
72.000	94.576	36.4	0.321	1.375	0.035	50.0	500.00	23.995	0.77500+00	0.10530-01
72.500	98.513	32.8	0.627	1.527	0.035	50.0	500.00	19.728	0.61580+00	0.53190-02
73.000	101.878	47.1	0.271	1.041	0.035	50.0	500.00	19.728	0.65120+00	0.78690-02
73.500	105.580	37.5	0.413	1.333	0.035	50.0	500.00	0.66290+00	0.66290+00	0.70860-02
74.000	107.754	91.7	0.390	0.545	0.035	50.0	500.00	48.953	0.27890+00	0.12780-02

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CASE NO. 2

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NO	H	A	R	V	N	Q	DX	A*R*(2/3)	FROUD	IE
0.0	3.500	99.2	1.886	1.008	0.035	100.0	0.0	151.436	0.2345D+00	0.5342D-03
0.500	3.759	85.9	1.963	1.002	0.035	100.0	500.00	156.399	0.2285D+00	0.5008D-03
1.000	3.997	85.9	2.352	1.164	0.035	100.0	500.00	151.918	0.2425D+00	0.5308D-03
1.500	4.254	92.3	2.371	1.083	0.035	100.0	500.00	164.136	0.2247D+00	0.4547D-03
2.000	4.470	118.2	2.197	0.846	0.035	100.0	500.00	199.785	0.1823D+00	0.3069D-03
2.500	4.606	122.2	2.634	0.818	0.035	100.0	500.00	233.129	0.1610D+00	0.2254D-03
3.000	4.708	117.5	3.106	0.851	0.035	100.0	500.00	250.070	0.1543D+00	0.1939D-03
3.500	4.854	104.2	2.060	0.960	0.035	100.0	500.00	168.705	0.2136D+00	0.4304D-03
4.000	5.097	91.4	1.937	1.094	0.035	100.0	500.00	142.068	0.2510D+00	0.6089D-03
4.500	5.372	116.6	1.886	0.858	0.035	100.0	500.00	177.918	0.1996D+00	0.3870D-03
5.000	5.585	90.1	2.053	1.110	0.035	100.0	500.00	145.503	0.2475D+00	0.5786D-03
5.500	5.889	107.3	1.630	0.932	0.035	100.0	500.00	148.583	0.2322D+00	0.5549D-03
6.000	6.157	99.5	1.848	1.005	0.035	100.0	500.00	149.772	0.2363D+00	0.5461D-03
6.500	6.378	135.7	2.179	0.737	0.035	100.0	500.00	228.029	0.1595D+00	0.2356D-03
7.000	6.556	79.5	2.122	1.257	0.035	100.0	500.00	131.335	0.2757D+00	0.7102D-03
7.500	6.886	99.7	2.024	1.003	0.035	100.0	500.00	159.499	0.2252D+00	0.4815D-03
8.000	7.087	131.4	2.337	0.761	0.035	100.0	500.00	231.468	0.1590D+00	0.2286D-03
8.500	7.200	155.6	2.146	0.643	0.035	100.0	500.00	258.836	0.1402D+00	0.1828D-03
9.000	7.454	76.2	1.599	1.313	0.035	100.0	500.00	104.146	0.3317D+00	0.1129D-02
9.500	7.860	140.8	2.180	0.710	0.035	100.0	500.00	236.802	0.1536D+00	0.2185D-03
10.000	7.992	106.7	2.120	0.937	0.035	100.0	500.00	176.107	0.2056D+00	0.3950D-03
10.500	8.219	90.7	2.008	1.102	0.035	100.0	500.00	144.415	0.2485D+00	0.5874D-03
11.000	8.492	88.8	2.287	1.126	0.035	100.0	500.00	154.119	0.2379D+00	0.5157D-03
11.500	8.767	91.5	2.035	1.093	0.035	100.0	500.00	146.870	0.2447D+00	0.5671D-03
12.000	9.015	130.9	1.976	0.764	0.035	100.0	500.00	206.134	0.1736D+00	0.2883D-03
12.500	9.163	108.7	2.197	0.920	0.035	100.0	500.00	183.760	0.1982D+00	0.3628D-03
13.000	9.323	187.3	1.793	0.507	0.035	100.0	500.00	291.164	0.1209D+00	0.1445D-03
13.500	9.438	109.3	1.873	0.915	0.035	100.0	500.00	166.147	0.2135D+00	0.4438D-03
14.000	9.648	142.5	1.603	0.702	0.035	100.0	500.00	195.172	0.1771D+00	0.3216D-03
14.500	9.823	112.9	1.790	0.886	0.035	100.0	500.00	166.421	0.2115D+00	0.4423D-03
15.000	10.213	84.9	1.257	1.178	0.035	100.0	500.00	98.869	0.3557D+00	0.1233D-02
15.500	10.635	188.4	1.577	0.531	0.035	100.0	500.00	255.342	0.1350D+00	0.1879D-03
16.000	10.749	162.8	1.419	0.614	0.035	100.0	500.00	205.560	0.1647D+00	0.2899D-03
16.500	10.964	111.0	1.352	0.901	0.035	100.0	500.00	135.682	0.2476D+00	0.6654D-03
17.000	11.234	93.4	1.409	1.071	0.035	100.0	500.00	117.356	0.2882D+00	0.8895D-03
17.500	11.754	105.7	1.347	0.946	0.035	100.0	500.00	128.936	0.2604D+00	0.7369D-03
18.000	12.117	113.1	1.282	0.884	0.035	100.0	500.00	133.485	0.2494D+00	0.6875D-03
18.500	12.336	101.7	1.110	0.983	0.035	100.0	500.00	109.019	0.2982D+00	0.1031D-02
19.000	12.921	109.5	1.770	0.913	0.035	100.0	500.00	160.197	0.2193D+00	0.4773D-03
19.500	13.174	98.3	1.790	1.012	0.035	100.0	500.00	145.660	0.2417D+00	0.5774D-03
20.000	13.422	142.7	1.709	0.701	0.035	100.0	500.00	203.985	0.1712D+00	0.2944D-03
20.500	13.603	137.7	1.333	0.726	0.035	100.0	500.00	166.790	0.2009D+00	0.4403D-03
21.000	13.819	128.2	1.491	0.780	0.035	100.0	500.00	167.343	0.2040D+00	0.4374D-03
21.500	14.136	96.8	1.288	1.033	0.035	100.0	500.00	114.592	0.2908D+00	0.9329D-03
22.000	14.543	90.1	1.716	1.110	0.035	100.0	500.00	129.070	0.2708D+00	0.7353D-03
22.500	14.914	107.7	1.415	0.929	0.035	100.0	500.00	135.680	0.2495D+00	0.6654D-03
23.000	15.237	118.1	1.342	0.846	0.035	100.0	500.00	143.747	0.2334D+00	0.5928D-03
23.500	15.631	89.4	1.282	1.118	0.035	100.0	500.00	105.498	0.3156D+00	0.1101D-02
24.000	16.026	179.9	1.288	0.556	0.035	100.0	500.00	213.062	0.1584D+00	0.2699D-03
24.500	16.363	88.0	1.160	1.136	0.035	100.0	500.00	97.161	0.3370D+00	0.1298D-02

NO	H	A	R	V	N	Q	DX	APR**(2/3)	FROUD	IE
25.000	16.920	95.7	1.359	1.045	0.035	100.0	500.00	117.459	0.28620+00	0.88790-03
25.500	17.273	134.9	1.472	0.741	0.035	100.0	500.00	174.561	0.19520+00	0.40200-03
26.000	17.538	130.0	1.067	0.769	0.035	100.0	500.00	135.746	0.23790+00	0.66480-03
26.500	17.974	83.9	1.271	1.192	0.035	100.0	500.00	98.446	0.33770+00	0.12640-02
27.000	18.531	102.8	1.253	0.973	0.035	100.0	500.00	119.465	0.27760+00	0.85830-03
27.500	18.901	143.7	1.104	0.696	0.035	100.0	500.00	153.461	0.21160+00	0.52020-03
28.000	19.091	205.2	1.408	0.487	0.035	100.0	500.00	257.828	0.13120+00	0.18430-03
28.500	19.183	175.4	1.649	0.570	0.035	100.0	500.00	244.849	0.14180+00	0.20430-03
29.000	19.317	202.1	0.965	0.495	0.035	100.0	500.00	197.316	0.16090+00	0.31460-03
29.500	19.768	81.3	1.033	1.229	0.035	100.0	500.00	83.110	0.38640+00	0.17730-02
30.000	20.570	71.0	1.409	1.408	0.035	100.0	500.00	89.229	0.37900+00	0.15390-02
30.500	21.133	128.9	1.572	0.776	0.035	100.0	500.00	174.324	0.19760+00	0.40310-03
31.000	21.457	111.4	1.040	0.898	0.035	100.0	500.00	114.332	0.28120+00	0.93710-03
31.500	21.925	107.8	1.081	0.928	0.035	100.0	500.00	113.562	0.28500+00	0.94990-03
32.000	22.488	89.2	1.082	1.121	0.035	100.0	500.00	93.989	0.34430+00	0.15870-02
32.500	23.141	99.1	1.048	1.009	0.035	100.0	500.00	102.236	0.31490+00	0.11720-02
33.000	23.560	130.1	1.536	0.769	0.035	100.0	500.00	173.180	0.19810+00	0.40850-03
33.500	23.766	123.4	1.596	0.810	0.035	100.0	500.00	168.533	0.20490+00	0.43120-03
34.000	24.126	81.7	1.377	1.223	0.035	100.0	500.00	101.158	0.33310+00	0.11970-02
34.500	24.601	104.7	1.658	0.955	0.035	100.0	500.00	146.668	0.23700+00	0.56960-03
35.000	24.942	122.4	1.078	0.817	0.035	100.0	500.00	128.657	0.25140+00	0.74010-03
35.250	25.081	131.5	1.739	0.761	0.035	100.0	250.00	190.081	0.18430+00	0.33900-03
35.500	25.260	90.7	1.064	1.103	0.035	100.0	250.00	94.436	0.34170+00	0.13730-02
36.000	25.789	116.8	1.295	0.856	0.035	100.0	500.00	138.738	0.24030+00	0.63620-03
36.500	26.111	95.5	1.577	1.047	0.035	100.0	500.00	139.441	0.26620+00	0.73110-03
37.000	26.474	115.3	1.305	0.868	0.035	100.0	500.00	137.643	0.24260+00	0.64660-03
37.500	26.929	84.7	1.217	1.181	0.035	100.0	500.00	96.519	0.34200+00	0.13150-02
38.000	27.476	109.8	1.260	0.911	0.035	100.0	500.00	128.095	0.25920+00	0.74660-03
38.500	27.916	125.4	0.848	0.798	0.035	100.0	500.00	112.284	0.27680+00	0.97160-03
39.000	28.420	82.4	1.330	1.213	0.035	100.0	500.00	99.666	0.33610+00	0.12330-02
39.500	29.033	108.8	0.970	0.919	0.035	100.0	500.00	106.628	0.29810+00	0.10770-02
40.000	29.893	65.9	1.036	1.517	0.035	100.0	500.00	67.500	0.47600+00	0.26890-02
41.500	30.717	210.7	1.657	0.475	0.035	100.0	500.00	295.089	0.11780+00	0.14070-03
42.000	30.795	198.6	1.508	0.504	0.035	100.0	500.00	281.119	0.13100+00	0.17970-03
43.000	31.244	90.8	1.815	0.933	0.035	100.0	500.00	159.456	0.22130+00	0.48180-03
43.500	31.784	89.7	1.495	1.101	0.035	100.0	500.00	118.720	0.28770+00	0.86910-03
44.000	32.258	137.4	1.336	0.728	0.035	100.0	500.00	97.245	0.33520+00	0.12950-02
44.500	32.519	149.0	0.954	0.671	0.035	100.0	500.00	166.639	0.20120+00	0.44110-03
45.000	32.863	149.0	0.765	0.671	0.035	100.0	500.00	144.432	0.21940+00	0.58720-03
45.500	33.559	75.7	0.951	1.321	0.035	100.0	500.00	126.655	0.24510+00	0.78830-03
46.000	34.401	115.7	1.051	0.864	0.035	100.0	500.00	73.193	0.43280+00	0.22870-02
46.500	34.802	113.4	1.191	0.882	0.035	100.0	500.00	119.594	0.26930+00	0.85650-03
47.000	35.280	108.1	0.919	0.925	0.035	100.0	500.00	127.333	0.25830+00	0.75550-03
47.500	35.756	124.4	1.119	0.804	0.035	100.0	500.00	108.200	0.30820+00	0.11730-02
48.000	36.197	100.4	1.033	0.996	0.035	100.0	500.00	134.059	0.24280+00	0.68160-03
48.500	37.095	71.1	0.935	1.406	0.035	100.0	500.00	103.614	0.31300+00	0.16330-02
49.000	37.874	362.5	1.726	0.276	0.035	100.0	500.00	68.018	0.46440+00	0.26480-02
49.500	38.068	140.2	0.809	0.713	0.035	100.0	500.00	521.680	0.67070+01	0.45010-04
50.000	38.566	97.8	0.997	1.023	0.035	100.0	500.00	121.691	0.25340+00	0.82720-03
								97.580	0.32720+00	0.12870-02



NO	H	A	R	V	N	G	DX	A*R*(2/3)	FRUUD.	IE
50.500	39.025	146.2	1.265	0.684	0.035	100.0	500.00	171.007	0.19430+00	0.41890-03
51.000	39.478	81.6	1.098	1.226	0.035	100.0	500.00	86.859	0.37360+00	0.16240-02
51.500	40.190	94.1	1.157	1.063	0.035	100.0	500.00	103.648	0.31580+00	0.11400-02
52.000	40.898	77.8	1.087	1.285	0.035	100.0	500.00	82.237	0.39390+00	0.18110-02
52.500	42.259	88.6	0.540	1.129	0.035	100.0	500.00	58.787	0.49040+00	0.35450-02
53.000	43.221	354.8	1.982	0.282	0.035	100.0	500.00	559.811	0.63950-01	0.39090-04
53.500	43.313	114.2	1.655	0.876	0.035	100.0	500.00	159.749	0.21750+00	0.48000-03
54.000	43.598	93.5	1.604	1.070	0.035	100.0	500.00	128.101	0.26980+00	0.74850-03
54.500	44.142	73.9	1.299	1.353	0.035	100.0	500.00	87.960	0.37930+00	0.15830-02
55.000	45.370	125.8	0.357	0.795	0.035	100.0	500.00	63.295	0.43500+00	0.30580-02
55.500	46.199	225.7	1.369	0.443	0.035	100.0	500.00	278.157	0.2100+00	0.15830-03
56.000	46.373	164.3	0.834	0.609	0.035	100.0	500.00	145.604	0.21290+00	0.57780-03
56.500	46.741	114.1	0.969	0.877	0.035	100.0	500.00	111.694	0.28450+00	0.98190-03
57.000	47.195	106.1	1.188	0.943	0.035	100.0	500.00	118.992	0.27630+00	0.86520-03
57.500	48.067	81.8	0.735	1.222	0.035	100.0	500.00	66.649	0.45530+00	0.27580-02
58.000	49.058	105.8	1.017	0.945	0.035	100.0	500.00	106.956	0.29950+00	0.10710-02
58.500	49.565	108.5	1.072	0.922	0.035	100.0	500.00	113.656	0.28430+00	0.94830-03
59.000	50.130	95.0	0.992	1.052	0.035	100.0	500.00	94.532	0.33750+00	0.13710-02
59.500	50.963	80.5	0.939	1.243	0.035	100.0	500.00	77.441	0.40970+00	0.20590-02
59.500	51.735	154.7	0.731	0.647	0.035	100.0	500.00	125.557	0.24150+00	0.77710-03
60.000	52.225	105.5	0.888	0.948	0.035	100.0	500.00	97.477	0.32130+00	0.12890-02
60.500	52.851	82.9	1.239	1.207	0.035	100.0	500.00	95.575	0.34640+00	0.13410-02
61.000	53.565	102.1	0.876	0.979	0.035	100.0	500.00	93.481	0.33420+00	0.14020-02
61.500	54.721	124.4	0.355	0.804	0.035	100.0	500.00	62.340	0.43110+00	0.31520-02
62.000	55.597	264.1	0.795	0.379	0.035	100.0	500.00	226.564	0.13570+00	0.23860-03
62.500	56.116	144.2	0.413	0.693	0.035	100.0	500.00	79.946	0.34480+00	0.19170-02
63.000	57.507	117.3	0.344	0.853	0.035	100.0	500.00	57.535	0.46470+00	0.37010-02
63.500	58.774	175.5	0.418	0.570	0.035	100.0	500.00	98.027	0.28170+00	0.12750-02
64.000	59.130	440.5	0.756	0.227	0.035	100.0	500.00	365.441	0.83420-01	0.91730-04
64.500	59.945	99.9	0.468	1.001	0.035	100.0	500.00	60.223	0.46740+00	0.33780-02
65.000	61.187	144.4	0.502	0.693	0.035	100.0	500.00	91.186	0.31230+00	0.14730-02
65.500	62.807	97.1	0.357	1.030	0.035	100.0	500.00	48.822	0.55100+00	0.51390-02
66.000	64.154	911.1	1.402	0.110	0.035	100.0	500.00	1141.085	0.29610-01	0.94080-05
66.500	65.711	95.5	0.308	1.047	0.035	100.0	500.00	43.536	0.60290+00	0.64630-02
67.000	67.496	239.9	0.356	0.419	0.035	100.0	500.00	161.468	0.17940+00	0.46990-03
67.500	69.368	72.9	0.417	1.373	0.035	100.0	500.00	40.677	0.67880+00	0.74040-02
68.000	72.619	84.8	0.416	1.179	0.035	100.0	500.00	47.249	0.58410+00	0.54870-02
68.500	75.157	98.4	0.381	1.017	0.035	100.0	500.00	51.687	0.52620+00	0.45850-02
69.000	77.874	81.7	0.392	1.223	0.035	100.0	500.00	43.810	0.62390+00	0.63830-02
69.500	80.631	70.4	0.612	1.421	0.035	100.0	500.00	50.713	0.58030+00	0.47630-02
70.000	82.831	100.4	0.425	0.996	0.035	100.0	500.00	56.735	0.48820+00	0.38060-02
70.500	85.690	77.2	0.368	1.295	0.035	100.0	500.00	39.662	0.68180+00	0.77870-02
71.000	88.676	213.1	0.137	0.469	0.035	100.0	500.00	56.565	0.40540+00	0.38390-02
71.500	90.803	96.8	0.373	1.033	0.035	100.0	500.00	50.170	0.54020+00	0.48670-02
72.000	94.752	61.5	0.392	1.626	0.035	100.0	500.00	32.951	0.82950+00	0.11280-01
72.500	98.931	72.1	0.547	1.388	0.035	100.0	500.00	48.189	0.59950+00	0.52750-02
73.000	102.075	78.6	0.379	1.273	0.035	100.0	500.00	41.667	0.66020+00	0.72280-02
73.500	105.847	73.3	0.393	1.365	0.035	100.0	500.00	39.540	0.69510+00	0.79150-02
74.000	108.120	186.9	0.527	0.535	0.035	100.0	500.00	121.985	0.23540+00	0.82320-03

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NO	H	A	R	V	N	Q	DX	ARR**(2/3)	FROUD	IE
0.0	4.000	125.4	2.385	1.196	0.035	150.0	0.0	223.856	0.24740+00	0.55000-03
0.500	4.269	125.5	2.468	1.195	0.035	150.0	500.00	229.171	0.24310+00	0.52480-03
1.000	4.519	104.6	2.862	1.434	0.035	150.0	500.00	210.802	0.27080+00	0.62030-03
1.500	4.819	113.7	2.923	1.319	0.035	150.0	500.00	232.500	0.24640+00	0.50990-03
2.000	5.066	149.9	2.789	1.000	0.035	150.0	500.00	297.085	0.19140+00	0.31230-03
2.500	5.209	149.7	3.227	1.002	0.035	150.0	500.00	326.950	0.17820+00	0.25780-03
3.000	5.327	139.9	3.700	1.072	0.035	150.0	500.00	334.733	0.17800+00	0.24600-03
3.500	5.485	135.5	2.680	1.107	0.035	150.0	500.00	261.519	0.21590+00	0.40300-03
4.000	5.707	119.8	2.507	1.252	0.035	150.0	500.00	221.061	0.25240+00	0.56400-03
4.500	5.970	153.2	2.479	0.979	0.035	150.0	500.00	280.502	0.19870+00	0.35030-03
5.000	6.161	114.8	2.618	1.306	0.035	150.0	500.00	218.120	0.25790+00	0.57930-03
5.500	6.456	144.3	2.193	1.039	0.035	150.0	500.00	243.657	0.22420+00	0.46430-03
6.000	6.689	127.9	2.376	1.173	0.035	150.0	500.00	227.705	0.24310+00	0.53160-03
6.500	6.918	169.0	2.711	0.888	0.035	150.0	500.00	328.487	0.17220+00	0.25540-03
7.000	7.090	98.9	2.640	1.517	0.035	150.0	500.00	167.941	0.16640+00	0.18400-03
7.500	7.455	127.3	2.580	1.178	0.035	150.0	500.00	188.885	0.29820+00	0.77250-03
8.000	7.668	163.5	2.908	0.918	0.035	150.0	500.00	239.469	0.23430+00	0.48060-03
8.500	7.791	198.1	2.732	0.757	0.035	150.0	500.00	333.089	0.17190+00	0.24840-03
9.000	7.991	101.5	2.130	1.478	0.035	150.0	500.00	387.045	0.14640+00	0.18400-03
9.500	8.377	173.6	2.685	0.864	0.035	150.0	500.00	167.941	0.32360+00	0.97720-03
10.000	8.516	132.5	2.631	1.132	0.035	150.0	500.00	335.372	0.16840+00	0.24510-03
10.500	8.753	114.2	2.529	1.313	0.035	150.0	500.00	232.493	0.22300+00	0.45230-03
11.000	9.042	109.6	2.822	1.369	0.035	150.0	500.00	212.011	0.26380+00	0.61320-03
11.500	9.340	116.6	2.591	1.286	0.035	150.0	500.00	218.821	0.26030+00	0.57560-03
12.000	9.602	169.7	2.510	0.884	0.035	150.0	500.00	313.458	0.25530+00	0.56970-03
12.500	9.744	136.5	2.755	1.099	0.035	150.0	500.00	268.331	0.21140+00	0.38280-03
13.000	9.920	262.7	2.382	0.571	0.035	150.0	500.00	468.538	0.11820+00	0.12550-03
13.500	10.028	146.3	2.138	1.025	0.035	150.0	500.00	242.781	0.22400+00	0.46760-03
14.000	10.235	194.3	2.172	0.772	0.035	150.0	500.00	325.775	0.16740+00	0.25970-03
14.500	10.380	148.1	2.287	1.013	0.035	150.0	500.00	257.064	0.21400+00	0.41710-03
15.000	10.708	180.0	1.609	1.250	0.035	150.0	500.00	164.747	0.31480+00	0.10160-02
15.500	11.075	200.9	2.001	0.623	0.035	150.0	500.00	382.515	0.14040+00	0.18840-03
16.000	11.184	212.5	1.840	0.706	0.035	150.0	500.00	319.062	0.16620+00	0.27080-03
16.500	11.376	144.7	1.745	1.037	0.035	150.0	500.00	209.765	0.25040+00	0.62640-03
17.000	11.726	119.3	1.794	1.037	0.035	150.0	500.00	176.122	0.29990+00	0.88860-03
17.500	12.147	136.4	1.733	1.100	0.035	150.0	500.00	176.725	0.26690+00	0.71220-03
18.000	12.498	146.6	1.656	1.023	0.035	150.0	500.00	205.167	0.25400+00	0.65480-03
18.500	12.887	134.0	1.438	1.119	0.035	150.0	500.00	170.752	0.29810+00	0.94530-03
19.000	13.269	130.6	2.110	1.148	0.035	150.0	500.00	214.863	0.25260+00	0.59700-03
19.500	13.573	120.5	2.175	1.245	0.035	150.0	500.00	202.241	0.26970+00	0.67390-03
20.000	13.867	179.2	2.140	0.837	0.035	150.0	500.00	287.575	0.18280+00	0.31130-03
20.500	14.043	183.9	1.761	0.820	0.035	150.0	500.00	266.795	0.19740+00	0.38720-03
21.000	14.241	164.3	1.891	0.913	0.035	150.0	500.00	211.241	0.21210+00	0.43670-03
21.500	14.536	126.7	1.664	1.184	0.035	150.0	500.00	177.890	0.29350+00	0.87100-03
22.000	14.943	111.1	2.058	1.350	0.035	150.0	500.00	179.705	0.30070+00	0.85350-03
22.500	15.350	140.6	1.838	1.067	0.035	150.0	500.00	210.976	0.25140+00	0.61920-03
23.000	15.654	154.3	1.732	0.972	0.035	150.0	500.00	222.553	0.23590+00	0.55650-03
23.500	16.015	116.2	1.649	1.291	0.035	150.0	500.00	162.132	0.32120+00	0.10490-02
24.000	16.412	233.8	1.562	0.642	0.035	150.0	500.00	338.002	0.15900+00	0.25620-03
24.500	16.718	114.7	1.465	1.307	0.035	150.0	500.00	147.999	0.34500+00	0.12580-02

\*\*\*\*\* \*\* CHAMA RIVER \*\*

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NO	H	A	R	V	N	Q	DX	A*R*(2/3)	FROUD	IE
25.000	17.277	121.1	1.678	1.238	0.035	150.0	500.00	171.071	0.3053D+00	0.9418D-03
25.500	17.660	169.9	1.851	0.883	0.035	150.0	500.00	256.165	0.2073D+00	0.4200D-03
26.000	17.908	174.9	1.428	0.858	0.035	150.0	500.00	221.757	0.2293D+00	0.5605D-03
26.500	18.309	105.9	1.586	1.417	0.035	150.0	500.00	143.978	0.3594D+00	0.1350D-02
27.000	18.891	132.1	1.608	1.135	0.035	150.0	500.00	181.348	0.2860D+00	0.8381D-03
27.500	19.259	193.2	1.379	0.776	0.035	150.0	500.00	239.350	0.2112D+00	0.4811D-03
28.000	19.443	256.4	1.759	0.702	0.035	150.0	500.00	373.644	0.1409D+00	0.1974D-03
28.500	19.545	213.6	1.992	0.585	0.035	150.0	500.00	358.198	0.1589D+00	0.2410D-03
29.000	19.681	278.3	1.268	0.559	0.035	150.0	500.00	325.904	0.1530D+00	0.2595D-03
29.500	20.112	109.3	1.194	1.372	0.035	150.0	500.00	123.063	0.4010D+00	0.1820D-02
30.000	20.929	89.1	1.738	1.683	0.035	150.0	500.00	128.795	0.2072D+00	0.1662D-02
30.500	21.558	163.7	1.996	0.916	0.035	150.0	500.00	189.924	0.2659D+00	0.7641D-03
31.000	21.846	154.0	1.370	0.974	0.035	150.0	500.00	175.340	0.2891D+00	0.8965D-03
31.500	22.250	140.0	1.401	1.071	0.035	150.0	500.00	140.773	0.3591D+00	0.1391D-02
32.000	22.788	113.7	1.378	1.319	0.035	150.0	500.00	154.169	0.3255D+00	0.1160D-02
32.500	23.447	128.2	1.319	1.170	0.035	150.0	500.00	238.098	0.2232D+00	0.4862D-03
33.000	23.884	157.5	1.859	0.952	0.035	150.0	500.00	235.633	0.2273D+00	0.4944D-03
33.500	24.125	151.0	1.949	0.993	0.035	150.0	500.00	149.349	0.3516D+00	0.1236D-02
34.000	24.496	103.6	1.732	1.448	0.035	150.0	500.00	209.809	0.2575D+00	0.6210D-03
34.500	25.004	129.9	2.053	1.155	0.035	150.0	500.00	210.630	0.2396D+00	0.6213D-03
35.000	25.348	171.3	1.363	0.876	0.035	150.0	500.00	264.521	0.2053D+00	0.3939D-03
35.250	25.469	160.4	2.118	1.209	0.035	150.0	250.00	150.563	0.3340D+00	0.1216D-02
35.500	25.637	124.1	1.336	1.209	0.035	150.0	250.00	197.067	0.2600D+00	0.7097D-03
36.000	26.145	150.7	1.495	0.995	0.035	150.0	500.00	184.516	0.3902D+00	0.8096D-03
36.500	26.490	118.3	1.948	1.268	0.035	150.0	500.00	213.442	0.2448D+00	0.6050D-03
37.000	26.878	150.8	1.683	0.995	0.035	150.0	500.00	148.342	0.3480D+00	0.1253D-02
37.500	27.294	110.0	1.565	1.363	0.035	150.0	500.00	192.289	0.2694D+00	0.7454D-03
38.000	27.834	140.7	1.598	1.066	0.035	150.0	500.00	189.576	0.2589D+00	0.7669D-03
38.500	28.233	172.3	1.154	0.871	0.035	150.0	500.00	174.532	0.2870D+00	0.9048D-03
39.000	28.709	100.3	1.599	1.496	0.035	150.0	500.00	99.483	0.5035D+00	0.2785D-02
39.500	29.368	146.2	1.304	1.026	0.035	150.0	500.00	395.839	0.1349D+00	0.1759D-03
40.000	30.168	83.3	1.305	1.800	0.035	150.0	500.00	375.288	0.4418D+00	0.1957D-03
41.500	31.070	256.3	1.920	0.585	0.035	150.0	500.00	217.283	0.2512D+00	0.5838D-03
42.000	31.162	246.8	1.875	0.608	0.035	150.0	500.00	174.700	0.3042D+00	0.9031D-03
42.500	31.302	129.1	2.184	1.162	0.035	150.0	500.00	157.318	0.2600D+00	0.1114D-02
43.000	31.655	115.4	1.863	1.300	0.035	150.0	500.00	243.648	0.2142D+00	0.4643D-03
43.500	32.166	119.9	1.502	1.251	0.035	150.0	500.00	236.650	0.2107D+00	0.4922D-03
44.000	32.606	173.1	1.670	0.867	0.035	150.0	500.00	207.176	0.2523D+00	0.6422D-03
44.500	32.857	202.0	1.268	0.743	0.035	150.0	500.00	106.102	0.4640D+00	0.2448D-02
45.000	33.141	203.6	1.027	0.737	0.035	150.0	500.00	182.341	0.2763D+00	0.8290D-03
45.500	33.805	95.2	1.177	1.576	0.035	150.0	500.00	185.446	0.2761D+00	0.8015D-03
46.000	34.707	149.2	1.351	1.006	0.035	150.0	500.00	161.474	0.3061D+00	0.1057D-02
46.500	35.109	142.3	1.488	1.054	0.035	150.0	500.00	192.638	0.2625D+00	0.7427D-03
47.000	35.573	142.6	1.205	0.966	0.035	150.0	500.00	153.365	0.3264D+00	0.1172D-02
47.500	36.033	153.3	1.382	0.966	0.035	150.0	500.00	102.606	0.4807D+00	0.2618D-02
48.000	36.488	128.7	1.301	1.166	0.035	150.0	500.00	680.382	0.7921D-01	0.5954D-04
48.500	37.360	91.4	1.189	1.641	0.035	150.0	500.00	195.333	0.2476D+00	0.7209D-03
49.000	38.174	485.1	2.025	0.353	0.035	150.0	500.00	141.400	0.3515D+00	0.1379D-02
49.500	38.340	187.5	1.065	0.800	0.035	150.0	500.00			
50.000	38.816	142.2	1.245	1.227	0.035	150.0	500.00			

NO	H	A	R	V	N	Q	DX	A*R*(2/3)	FROUD	IE
50.500	39.323	180.4	1.560	0.831	0.035	150.0	500.00	242.682	0.2126D+00	0.4680D-03
51.000	39.775	103.6	1.392	1.448	0.035	150.0	500.00	129.150	0.3920D+00	0.1652D-02
51.500	40.506	120.0	1.459	1.250	0.035	150.0	500.00	154.395	0.3305D+00	0.1156D-02
52.000	41.203	99.6	1.391	1.506	0.035	150.0	500.00	124.112	0.4079D+00	0.1789D-02
52.500	42.655	109.6	0.668	1.369	0.035	150.0	500.00	83.785	0.5348D+00	0.5926D-02
53.000	43.745	48.4	2.504	0.335	0.035	150.0	500.00	826.831	0.6753D-01	0.4032D-04
53.500	43.816	148.7	2.155	1.009	0.035	150.0	500.00	248.065	0.2195D+00	0.6479D-03
54.000	44.079	121.3	2.053	1.236	0.035	150.0	500.00	196.023	0.2756D+00	0.7173D-03
54.500	44.567	97.8	1.703	1.534	0.035	150.0	500.00	139.422	0.3756D+00	0.1418D-02
55.000	45.646	171.1	0.475	0.877	0.035	150.0	500.00	104.134	0.4064D+00	0.2542D-02
55.500	46.366	233.1	1.533	0.593	0.035	150.0	500.00	336.569	0.1529D+00	0.2433D-03
56.000	46.575	204.3	1.028	0.734	0.035	150.0	500.00	208.066	0.2313D+00	0.6367D-03
56.500	46.976	141.8	1.183	1.058	0.035	150.0	500.00	158.563	0.3108D+00	0.1096D-02
57.000	47.489	123.3	1.413	1.134	0.035	150.0	500.00	166.554	0.3047D+00	0.9936D-03
57.500	48.309	108.8	0.970	1.378	0.035	150.0	500.00	106.606	0.4472D+00	0.2425D-02
58.000	49.280	129.9	1.167	1.155	0.035	150.0	500.00	143.942	0.3416D+00	0.1330D-02
58.500	49.879	145.2	1.216	1.033	0.035	150.0	500.00	165.433	0.2992D+00	0.1007D-02
59.000	50.431	123.9	1.282	1.211	0.035	150.0	500.00	146.161	0.3417D+00	0.1290D-02
59.500	51.244	106.1	1.129	1.413	0.035	150.0	500.00	115.063	0.4249D+00	0.2082D-02
59.500	52.004	211.1	0.994	0.710	0.035	150.0	500.00	210.366	0.2276D+00	0.6228D-03
60.000	52.483	136.3	1.018	1.101	0.035	150.0	500.00	137.867	0.3486D+00	0.1450D-02
60.500	53.219	121.7	1.139	1.233	0.035	150.0	500.00	132.685	0.3690D+00	0.1566D-02
61.000	54.009	163.1	0.780	0.920	0.035	150.0	500.00	138.177	0.3327D+00	0.1444D-02
61.500	54.894	184.9	0.496	0.811	0.035	150.0	500.00	115.878	0.3679D+00	0.2053D-02
62.000	55.266	253.3	0.811	0.592	0.035	150.0	500.00	220.337	0.2100D+00	0.5677D-03
62.500	56.230	196.8	0.438	0.762	0.035	150.0	500.00	113.540	0.3678D+00	0.2138D-02
63.000	57.587	173.5	0.380	0.865	0.035	150.0	500.00	91.025	0.4480D+00	0.327D-02
63.500	58.885	219.0	0.424	0.685	0.035	150.0	500.00	123.608	0.3360D+00	0.1804D-02
64.000	59.382	601.6	0.860	0.249	0.035	150.0	500.00	543.964	0.8590D-01	0.9315D-04
64.500	60.116	147.2	0.517	1.019	0.035	150.0	500.00	94.848	0.4526D+00	0.3064D-02
65.000	61.325	186.2	0.570	0.806	0.035	150.0	500.00	127.951	0.3410D+00	0.1684D-02
65.500	63.019	146.9	0.350	1.021	0.035	150.0	500.00	72.956	0.5513D+00	0.5178D-02
66.000	64.375	1054.4	1.604	0.142	0.035	150.0	500.00	1445.045	0.3588D-01	0.1320D-04
66.500	65.847	134.3	0.352	1.117	0.035	150.0	500.00	66.940	0.6014D+00	0.6151D-02
67.000	67.603	295.7	0.581	0.507	0.035	150.0	500.00	205.813	0.2126D+00	0.6507D-03
67.500	69.535	99.8	0.472	1.503	0.035	150.0	500.00	60.514	0.6987D+00	0.7527D-02
68.000	72.763	123.6	0.452	1.214	0.035	150.0	500.00	72.738	0.5770D+00	0.5210D-02
68.500	75.273	127.8	0.456	1.173	0.035	150.0	500.00	75.721	0.5551D+00	0.4807D-02
69.000	78.040	114.3	0.438	1.312	0.035	150.0	500.00	65.949	0.6332D+00	0.6337D-02
69.500	80.867	104.0	0.599	1.442	0.035	150.0	500.00	73.873	0.5955D+00	0.5051D-02
70.000	83.016	140.5	0.520	1.068	0.035	150.0	500.00	90.893	0.4728D+00	0.3336D-02
70.500	85.825	104.7	0.416	1.433	0.035	150.0	500.00	70.999D+00	0.7099D+00	0.8104D-02
71.000	88.819	282.4	0.177	0.531	0.035	150.0	500.00	89.066	0.4032D+00	0.3475D-02
71.500	90.934	125.0	0.442	1.200	0.035	150.0	500.00	72.493	0.5768D+00	0.5245D-02
72.000	94.910	84.2	0.457	1.781	0.035	150.0	500.00	49.939	0.8420D+00	0.1105D-01
72.500	99.109	105.8	0.548	1.417	0.035	150.0	500.00	70.906	0.6114D+00	0.3482D-02
73.000	102.195	106.5	0.459	1.408	0.035	150.0	500.00	63.407	0.6638D+00	0.6856D-02
73.500	106.040	103.9	0.404	1.444	0.035	150.0	500.00	56.780	0.7256D+00	0.8549D-02
74.000	108.406	292.4	0.713	0.513	0.035	150.0	500.00	233.254	0.1944D+00	0.5066D-03

## NON-UNIFORM CALCULATION RESULTS (II)

(No. 60.0 K to No. 73.5 K)

### Study Cases

Case 1: 1,000 m<sup>3</sup>/s of discharge

Case 2: 2,000 m<sup>3</sup>/s of discharge

Case 3: 3,000 m<sup>3</sup>/s of discharge

### Abbreviations

No. : Number of Section  
H : Water Level  
A : Current Area  
R : Hydraulic Radius  
V : Current Velocity  
N : Manning's Roughness Coefficient  
Q : Discharge  
DX : Distance between two sections  
FROUD : Froude's Number  
IE : Energy gradient

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\*\*\*\*\* \*\* CHAMA RIVER \*\*

CASE NO.	H	A	R	V	N	Q	DX	A*R** (2/3)	FROUD	IE	PAGE
60.000	55.000	495.3	2.106	2.019	0.035	1000.0	500.00	813.773	0.4444E+00	0.1850E-02	1
61.000	55.820	849.0	1.721	1.178	0.035	1000.0	500.00	1219.273	0.2868E+00	0.8240E-03	
62.000	56.267	725.4	1.778	1.378	0.035	1000.0	500.00	1064.494	0.3303E+00	0.1081E-02	
63.000	56.781	1034.9	1.359	0.966	0.035	1000.0	500.00	1269.864	0.2648E+00	0.7597E-03	
64.000	57.283	856.0	1.179	1.168	0.035	1000.0	500.00	955.612	0.3436E+00	0.1341E-02	
65.000	58.304	716.6	0.869	1.396	0.035	1000.0	500.00	652.494	0.4782E+00	0.2877E-02	
66.000	59.636	741.5	0.939	1.349	0.035	1000.0	500.00	711.239	0.4445E+00	0.2422E-02	
67.000	60.390	1349.5	1.775	0.741	0.035	1000.0	500.00	1978.710	0.1776E+00	0.3129E-03	
68.000	61.108	629.6	1.023	1.588	0.035	1000.0	500.00	639.041	0.5017E+00	0.3000E-02	
69.000	62.377	578.4	1.475	1.739	0.035	1000.0	500.00	749.307	0.4548E+00	0.2182E-02	
70.000	63.807	606.5	0.968	1.649	0.035	1000.0	500.00	593.629	0.5352E+00	0.3476E-02	
71.000	64.860	1373.6	2.074	0.728	0.035	1000.0	500.00	2233.842	0.1615E+00	0.2455E-03	
72.000	66.558	461.4	0.821	2.167	0.035	1000.0	500.00	404.607	0.7640E+00	0.7483E-02	
73.000	68.791	1034.2	1.613	0.967	0.035	1000.0	500.00	1422.127	0.2432E+00	0.6037E-03	
74.000	70.450	448.4	0.908	2.230	0.035	1000.0	500.00	420.386	0.7477E+00	0.6932E-02	
75.000	73.627	428.1	1.100	2.336	0.035	1000.0	500.00	456.185	0.7115E+00	0.5886E-02	
76.000	76.274	437.7	1.270	2.285	0.035	1000.0	500.00	513.303	0.6476E+00	0.4649E-02	
77.000	78.951	425.0	1.079	2.353	0.035	1000.0	500.00	446.996	0.7237E+00	0.6131E-02	
78.000	81.979	435.1	1.068	2.298	0.035	1000.0	500.00	454.701	0.7103E+00	0.5925E-02	
79.000	84.179	564.2	1.429	1.772	0.035	1000.0	500.00	715.965	0.4735E+00	0.2390E-02	
80.000	86.698	390.4	0.963	2.562	0.035	1000.0	500.00	380.598	0.8340E+00	0.8457E-02	
81.000	89.973	896.2	0.542	1.116	0.035	1000.0	500.00	595.839	0.4841E+00	0.3450E-02	
82.000	91.960	506.3	0.954	1.975	0.035	1000.0	500.00	490.543	0.6461E+00	0.5091E-02	
83.000	95.839	359.8	0.877	2.780	0.035	1000.0	500.00	329.512	0.9484E+00	0.1128E-01	
84.000	100.139	471.6	1.045	2.120	0.035	1000.0	500.00	485.762	0.6625E+00	0.5191E-02	
85.000	103.139	371.1	1.144	2.695	0.035	1000.0	500.00	406.051	0.8046E+00	0.7430E-02	
86.000	106.887	369.6	1.135	2.705	0.035	1000.0	500.00	402.111	0.8113E+00	0.7576E-02	
87.000	109.404	725.3	1.571	1.379	0.035	1000.0	500.00	980.294	0.3513E+00	0.1275E-02	

NO	H	A	R	V	N	Q	DX	A*R*(2/3)	FROUD	IE
60.000	56.000	731.1	3.024	2.736	0.035	2000.0	500.00	1528.789	0.5025E+00	0.2097E-02
60.500	56.981	1423.3	2.869	1.405	0.035	2000.0	500.00	2873.865	0.2650E+00	0.5933E-03
61.000	57.307	1153.9	2.778	1.733	0.035	2000.0	500.00	2280.327	0.3322E+00	0.9423E-03
61.500	57.766	1785.2	2.323	1.120	0.035	2000.0	500.00	3130.887	0.2348E+00	0.4999E-03
62.000	58.101	1488.9	1.864	1.343	0.035	2000.0	500.00	2254.830	0.3143E+00	0.9638E-03
62.500	58.849	1166.5	1.407	1.715	0.035	2000.0	500.00	1664.788	0.4617E+00	0.2284E-02
63.000	60.079	1095.4	1.355	1.826	0.035	2000.0	500.00	1341.197	0.5011E+00	0.2724E-02
63.500	60.997	1810.5	2.370	1.105	0.035	2000.0	500.00	3218.070	0.2292E+00	0.4732E-03
64.000	61.660	969.5	1.568	2.033	0.035	2000.0	500.00	1308.440	0.5263E+00	0.2862E-02
64.500	62.988	820.7	2.032	2.437	0.035	2000.0	500.00	1316.521	0.5461E+00	0.2827E-02
65.000	64.450	1010.4	1.599	1.979	0.035	2000.0	500.00	1381.845	0.5000E+00	0.2366E-02
65.500	65.355	1700.8	2.558	1.176	0.035	2000.0	500.00	3181.460	0.2348E+00	0.4841E-03
66.000	66.980	698.2	1.239	2.864	0.035	2000.0	500.00	805.640	0.8219E+00	0.7549E-02
66.500	69.422	1438.6	2.234	1.390	0.035	2000.0	500.00	2458.234	0.2971E+00	0.8109E-03
67.000	70.938	692.0	1.374	2.890	0.035	2000.0	500.00	855.410	0.7875E+00	0.6696E-02
67.500	74.147	630.2	1.612	3.174	0.035	2000.0	500.00	866.529	0.7984E+00	0.6526E-02
68.000	76.966	678.3	1.927	2.949	0.035	2000.0	500.00	1050.477	0.6785E+00	0.4440E-02
68.500	79.534	659.6	1.615	3.032	0.035	2000.0	500.00	908.003	0.7621E+00	0.5943E-02
69.000	82.526	658.3	1.602	3.038	0.035	2000.0	500.00	901.238	0.7468E+00	0.6033E-02
69.500	84.880	843.4	2.093	2.371	0.035	2000.0	500.00	1380.098	0.2336E+00	0.2573E-02
70.000	87.231	611.4	1.452	3.271	0.035	2000.0	500.00	784.013	0.8672E+00	0.7972E-02
70.500	90.691	1304.5	0.782	1.533	0.035	2000.0	500.00	1107.321	0.5538E+00	0.3996E-02
71.000	92.559	837.2	1.458	2.389	0.035	2000.0	500.00	1076.418	0.6320E+00	0.4229E-02
71.500	96.328	578.4	1.220	3.458	0.035	2000.0	500.00	660.540	0.1000E+01	0.1123E-01
72.000	100.705	730.8	1.515	2.737	0.035	2000.0	500.00	963.853	0.7103E+00	0.5274E-02
72.500	103.706	557.2	1.674	3.589	0.035	2000.0	500.00	785.451	0.8863E+00	0.7942E-02
73.000	107.507	570.7	1.752	3.504	0.035	2000.0	500.00	829.338	0.8458E+00	0.7124E-02
73.500	110.162	1096.1	2.130	1.825	0.035	2000.0	500.00	1814.414	0.3994E+00	0.1488E-02

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NO	H	A	R	V	N	Q	DX	A+R*(2/3)	FROUD	IE
60.000	57.000	969.1	3.910	3.096	0.035	3000.0	500.00	2405.294	0.5001E+00	0.1906E-02
60.500	58.000	1927.6	3.886	1.556	0.035	3000.0	500.00	4764.348	0.2522E+00	0.4857E-03
61.000	58.246	1543.8	3.716	1.943	0.035	3000.0	500.00	3703.445	0.3220E+00	0.8038E-03
61.500	58.671	2480.0	3.218	1.210	0.035	3000.0	500.00	5405.398	0.2154E+00	0.3773E-03
62.000	58.902	2128.4	2.654	1.410	0.035	3000.0	500.00	4080.237	0.2764E+00	0.6622E-03
62.500	59.411	1632.1	1.962	1.838	0.035	3000.0	500.00	2557.537	0.4192E+00	0.1686E-02
63.000	60.452	1398.6	1.710	2.145	0.035	3000.0	500.00	2000.292	0.5239E+00	0.2755E-02
63.500	61.441	2150.2	2.796	1.395	0.035	3000.0	500.00	4267.512	0.2665E+00	0.6054E-03
64.000	62.091	1235.6	1.991	2.428	0.035	3000.0	500.00	1935.819	0.5496E+00	0.2882E-02
64.500	63.456	1010.9	2.468	2.963	0.035	3000.0	500.00	1846.319	0.6034E+00	0.3234E-02
65.000	65.017	1369.2	2.159	2.191	0.035	3000.0	500.00	2287.395	0.4765E+00	0.2107E-02
65.500	65.843	2025.2	3.035	1.481	0.035	3000.0	500.00	4245.504	0.2716E+00	0.6117E-03
66.000	67.335	897.8	1.590	3.342	0.035	3000.0	500.00	1223.103	0.8465E+00	0.7370E-02
66.500	69.881	1734.2	2.687	1.730	0.035	3000.0	500.00	3352.177	0.3371E+00	0.9811E-03
67.000	71.323	886.3	1.744	3.385	0.035	3000.0	500.00	1284.010	0.8188E+00	0.6687E-02
67.500	74.559	791.0	2.017	3.793	0.035	3000.0	500.00	1262.756	0.8530E+00	0.6914E-02
68.000	77.517	872.2	2.468	3.440	0.035	3000.0	500.00	1592.893	0.6994E+00	0.4345E-02
68.500	80.005	851.8	2.077	3.522	0.035	3000.0	500.00	1386.520	0.7807E+00	0.5735E-02
69.000	82.957	835.8	2.019	3.589	0.035	3000.0	500.00	1335.307	0.8069E+00	0.6183E-02
69.500	85.444	1070.8	2.640	2.802	0.035	3000.0	500.00	2045.336	0.5508E+00	0.2635E-02
70.000	87.655	789.7	1.867	3.799	0.035	3000.0	500.00	1197.528	0.8880E+00	0.7688E-02
70.500	91.263	1632.8	0.977	1.837	0.035	3000.0	500.00	1808.220	0.5936E+00	0.4263E-02
71.000	93.046	1120.8	1.903	2.677	0.035	3000.0	500.00	1721.418	0.6197E+00	0.3721E-02
71.500	96.720	767.2	1.561	3.910	0.035	3000.0	500.00	1032.260	0.1000E+01	0.1035E-01
72.000	101.073	909.2	1.804	3.300	0.035	3000.0	500.00	1347.355	0.7848E+00	0.6073E-02
72.500	104.180	714.9	2.131	4.197	0.035	3000.0	500.00	1183.923	0.9183E+00	0.7866E-02
73.000	107.981	724.6	2.224	4.140	0.035	3000.0	500.00	1234.685	0.8868E+00	0.7232E-02
73.500	110.857	1466.0	2.697	2.046	0.035	3000.0	500.00	2840.781	0.3980E+00	0.1366E-02

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