

Anexo A. Tablas y gráficas del estudio de mecánica de suelos.

SUBSTITUCIÓN DE TUBERÍA DE 48" D.N. ENTRE LOS KILÓMETROS 68 AL 88 DEL GASODUCTO CEMPAOLA - SANTA ANA, EN EL ESTADO DE VERACRUZ
POZO A CIELO ABIERTO PCA-03
CANTONAMIENTO 09-99

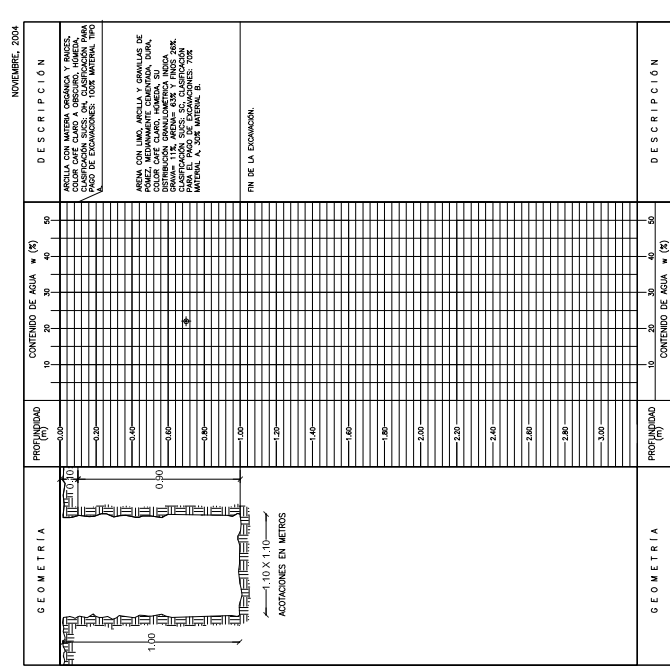


Figura II.ANX-A.4.- Perfil estratigráfico en pozo a cielo abierto PCA-03

SUBSTITUCIÓN DE TUBERÍA DE 48" D.N. ENTRE LOS KILÓMETROS 68 AL 88 DEL GASODUCTO CEMPAOLA - SANTA ANA, EN EL ESTADO DE VERACRUZ
POZO A CIELO ABIERTO PCA-06
CANTONAMIENTO 09-99

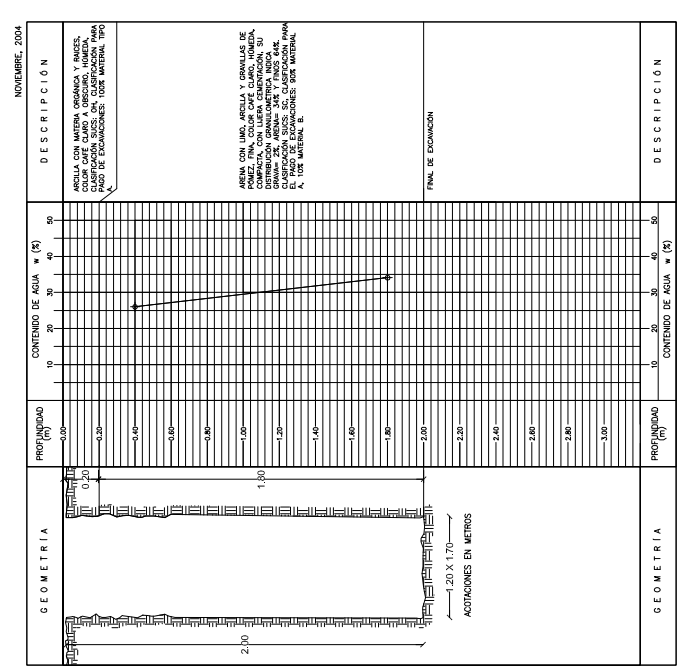


Figura II.ANX-A.7.- Perfil estratigráfico en pozo a cielo abierto PCA-06

SUBSTITUCIÓN DE TUBERÍA DE 48" D.N. ENTRE LOS KILÓMETROS 68 AL 88 DEL GASODUCTO CEMPAOLA - SANTA ANA, EN EL ESTADO DE VERACRUZ
POZO A CIELO ABIERTO PCA-02
CANTONAMIENTO 08-99

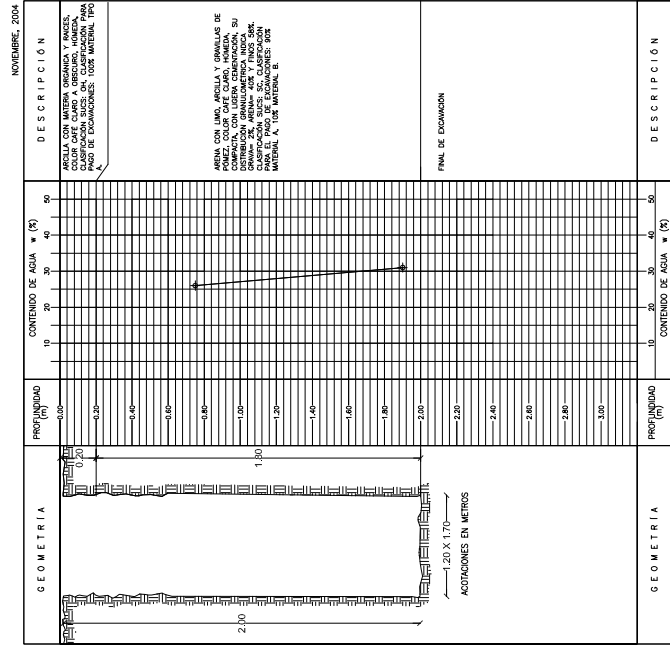


Figura II.ANX-A.3.- Perfil estratigráfico en pozo a cielo abierto PCA-02

SUBSTITUCIÓN DE TUBERÍA DE 48" D.N. ENTRE LOS KILÓMETROS 68 AL 88 DEL GASODUCTO CEMPAOLA - SANTA ANA, EN EL ESTADO DE VERACRUZ
POZO A CIELO ABIERTO PCA-05
CANTONAMIENTO 09-99

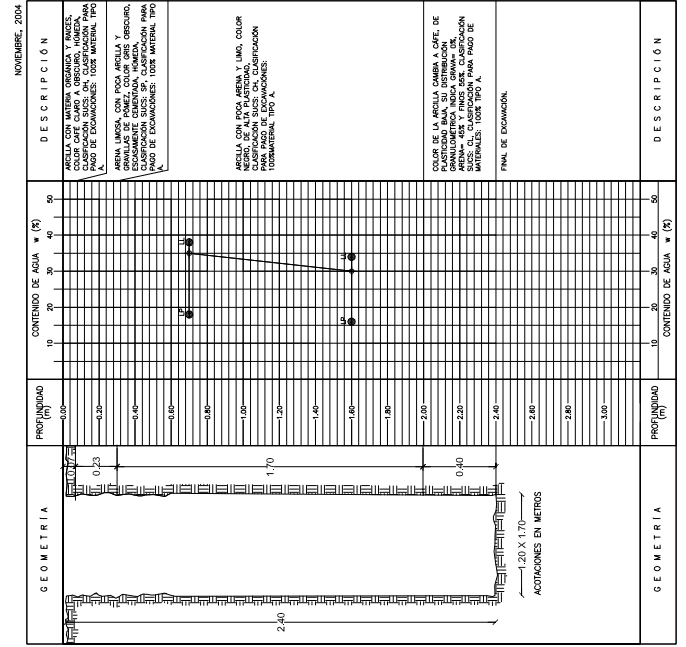


Figura II.ANX-A.6.- Perfil estratigráfico en pozo a cielo abierto PCA-05

SUBSTITUCIÓN DE TUBERÍA DE 48" D.N. ENTRE LOS KILÓMETROS 68 AL 88 DEL GASODUCTO CEMPAOLA - SANTA ANA, EN EL ESTADO DE VERACRUZ
POZO A CIELO ABIERTO PCA-01
CANTONAMIENTO 08-99

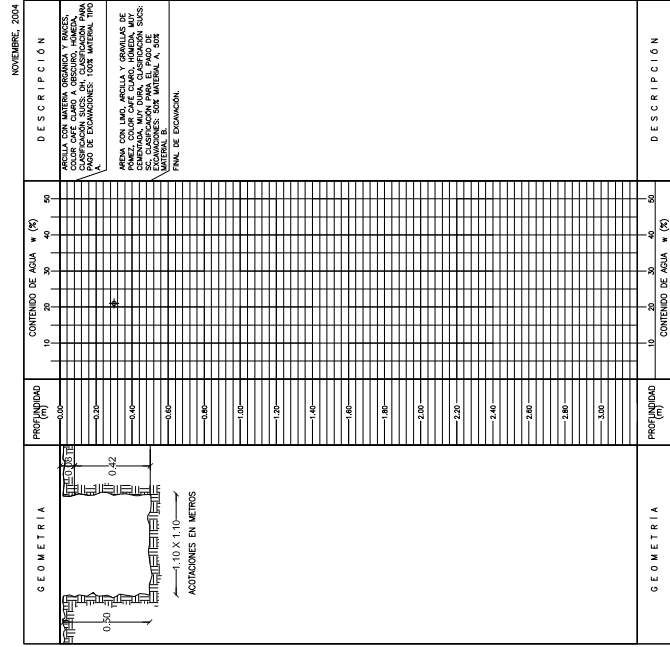


Figura II.ANX-A.2.- Perfil estratigráfico en pozo a cielo abierto PCA-01

SUBSTITUCIÓN DE TUBERÍA DE 48" D.N. ENTRE LOS KILÓMETROS 68 AL 88 DEL GASODUCTO CEMPAOLA - SANTA ANA, EN EL ESTADO DE VERACRUZ
POZO A CIELO ABIERTO PCA-04
CANTONAMIENTO 09-99

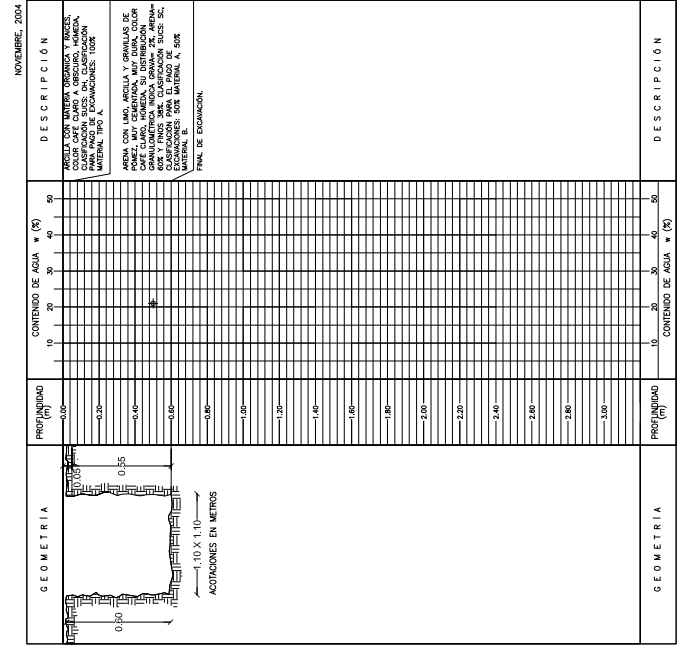


Figura II.ANX-A.5.- Perfil estratigráfico en pozo a cielo abierto PCA-04

SUBSTITUCIÓN DE TUBERÍA DE 48" D.N. ENTRE LOS KILÓMETROS 68 AL 88 DEL GASODUCTO CEMPAOLA - SANTA ANA, EN EL ESTADO DE VERACRUZ
POZO A CIELO ABIERTO PCA-49
CABIMAMBIENTO 73-99

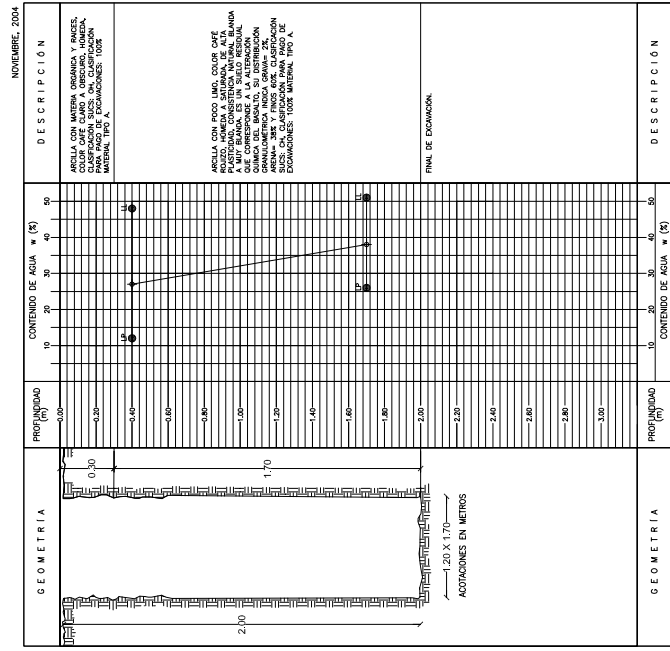


Figura II.ANXX-A.10.- Perfil estratigráfico en pozo a cielo abierto PCA-09

SUBSTITUCIÓN DE TUBERÍA DE 48" D.N. ENTRE LOS KILÓMETROS 68 AL 88 DEL GASODUCTO CEMPAOLA - SANTA ANA, EN EL ESTADO DE VERACRUZ
POZO A CIELO ABIERTO PCA-12
CABIMAMBIENTO 73-99

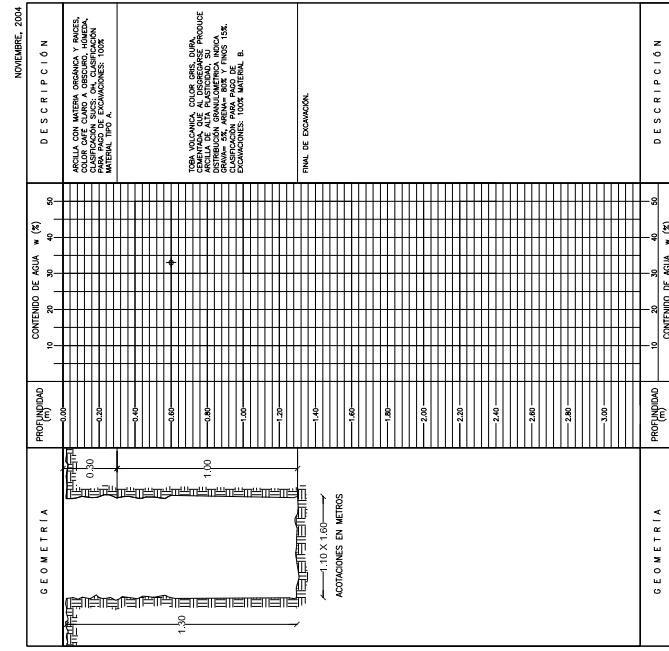


Figura II.ANXX-A.13.- Perfil estratigráfico en pozo a cielo abierto PCA-12

SUBSTITUCIÓN DE TUBERÍA DE 48" D.N. ENTRE LOS KILÓMETROS 68 AL 88 DEL GASODUCTO CEMPAOLA - SANTA ANA, EN EL ESTADO DE VERACRUZ
POZO A CIELO ABIERTO PCA-48
CABIMAMBIENTO 73-99

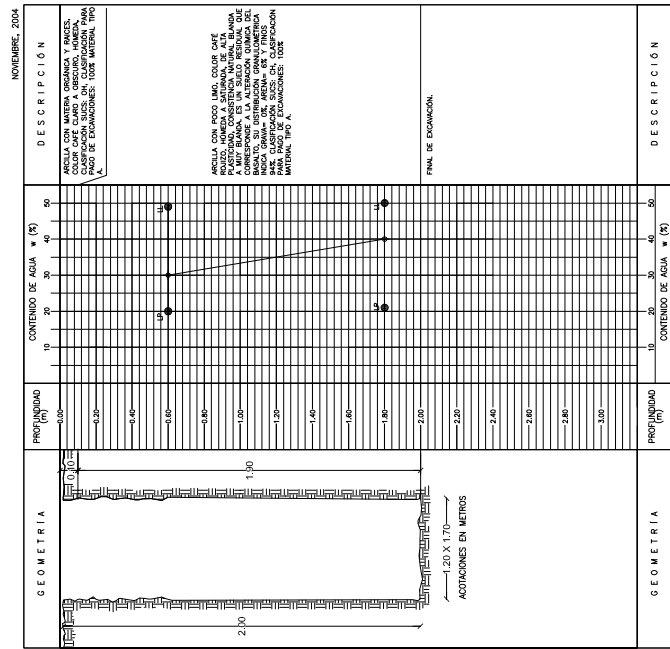


Figura II.ANXX-A.9.- Perfil estratigráfico en pozo a cielo abierto PCA-08

SUBSTITUCIÓN DE TUBERÍA DE 48" D.N. ENTRE LOS KILÓMETROS 68 AL 88 DEL GASODUCTO CEMPAOLA - SANTA ANA, EN EL ESTADO DE VERACRUZ
POZO A CIELO ABIERTO PCA-11
CABIMAMBIENTO 73-99

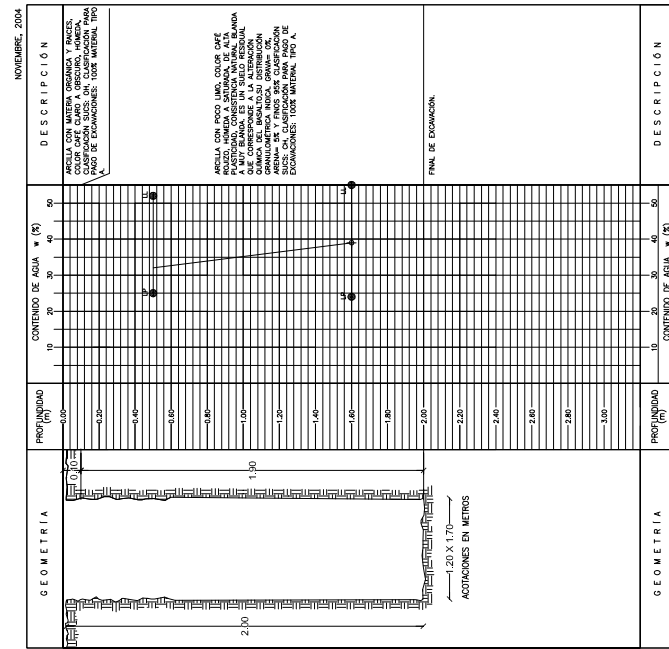


Figura II.ANXX-A.12.- Perfil estratigráfico en pozo a cielo abierto PCA-11

SUBSTITUCIÓN DE TUBERÍA DE 48" D.N. ENTRE LOS KILÓMETROS 68 AL 88 DEL GASODUCTO CEMPAOLA - SANTA ANA, EN EL ESTADO DE VERACRUZ
POZO A CIELO ABIERTO PCA-47
CABIMAMBIENTO 73-99

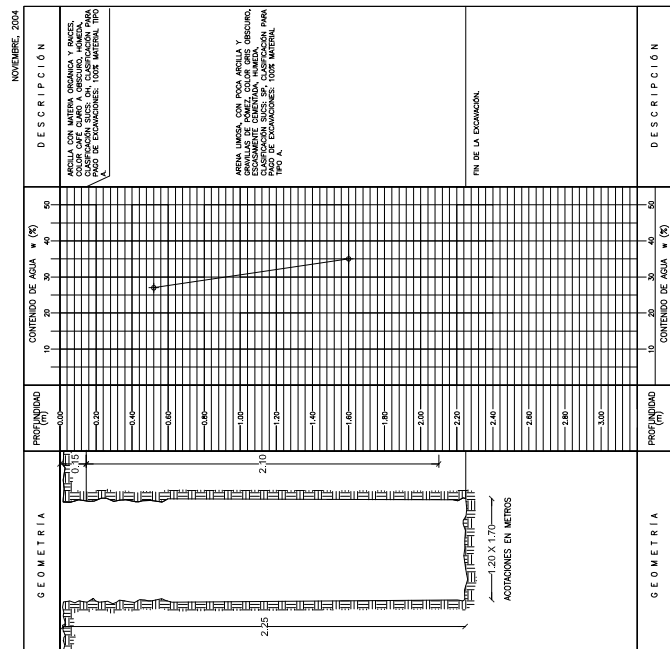


Figura II.ANXX-A.8.- Perfil estratigráfico en pozo a cielo abierto PCA-07

SUBSTITUCIÓN DE TUBERÍA DE 48" D.N. ENTRE LOS KILÓMETROS 68 AL 88 DEL GASODUCTO CEMPAOLA - SANTA ANA, EN EL ESTADO DE VERACRUZ
POZO A CIELO ABIERTO PCA-10
CABIMAMBIENTO 73-99

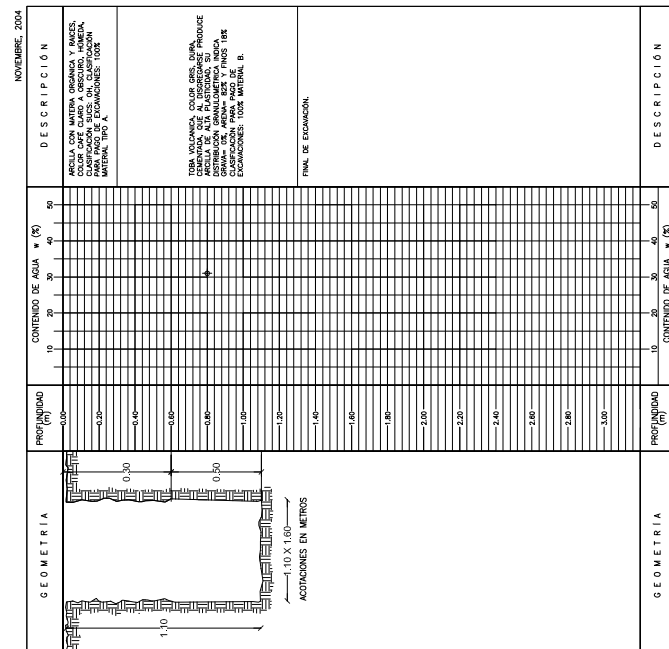


Figura II.ANXX-A.11.- Perfil estratigráfico en pozo a cielo abierto PCA-10

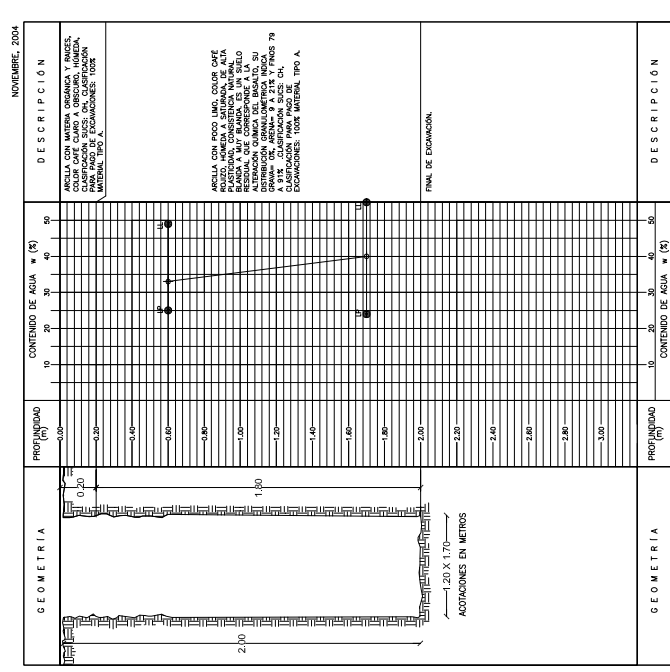


Figura II.ANXX-A.13 - Perfil estratigráfico en pozo a cielo abierto PCA-13

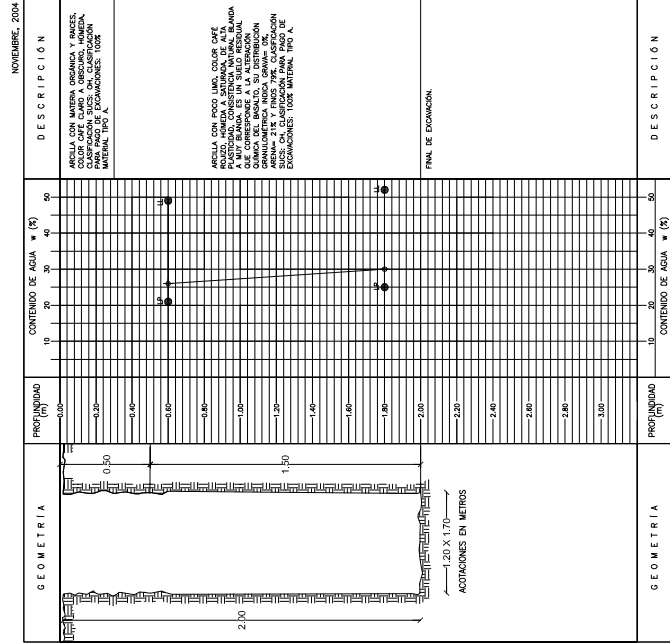


Figura II.ANXX-A.14 - Perfil estratigráfico en pozo a cielo abierto PCA-14

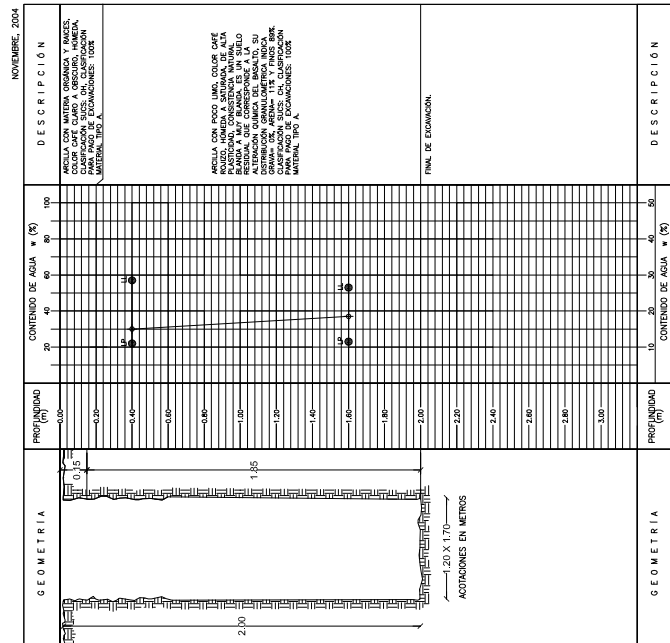


Figura II.ANXX-A.15 - Perfil estratigráfico en pozo a cielo abierto PCA-15



Figura II.ANXX-A.16 - Perfil estratigráfico en pozo a cielo abierto PCA-16

Figura II.ANXX-A.17 - Perfil estratigráfico en pozo a cielo abierto PCA-17

Figura II.ANXX-A.18 - Perfil estratigráfico en pozo a cielo abierto PCA-18

Figura II.ANXX-A.19 - Perfil estratigráfico en pozo a cielo abierto PCA-19

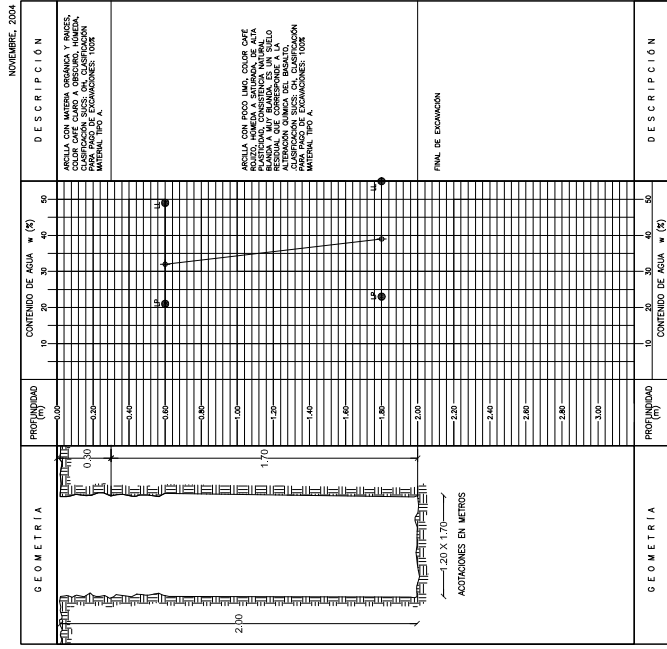


Figura II.ANXX-A.22 - Perfil estratigráfico en pozo a cielo abierto PCA-21

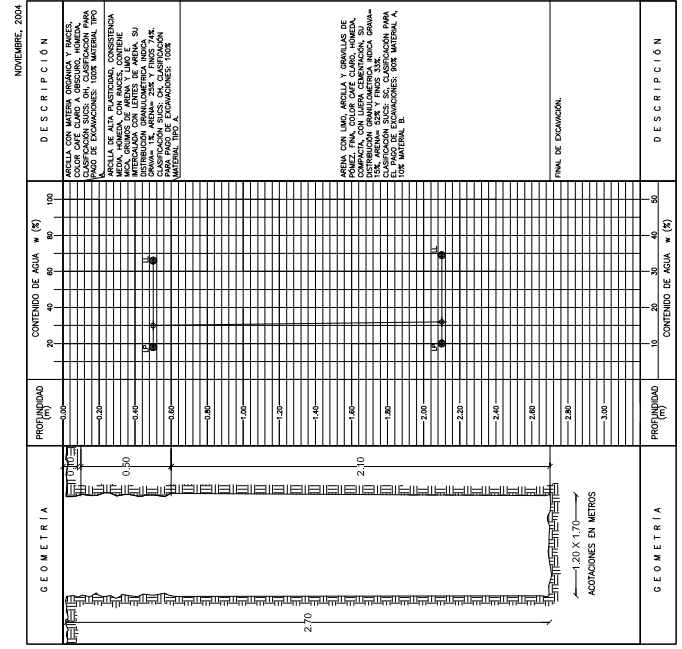


Figura II.ANXX-A.25 - Perfil estratigráfico en pozo a cielo abierto PCA-24

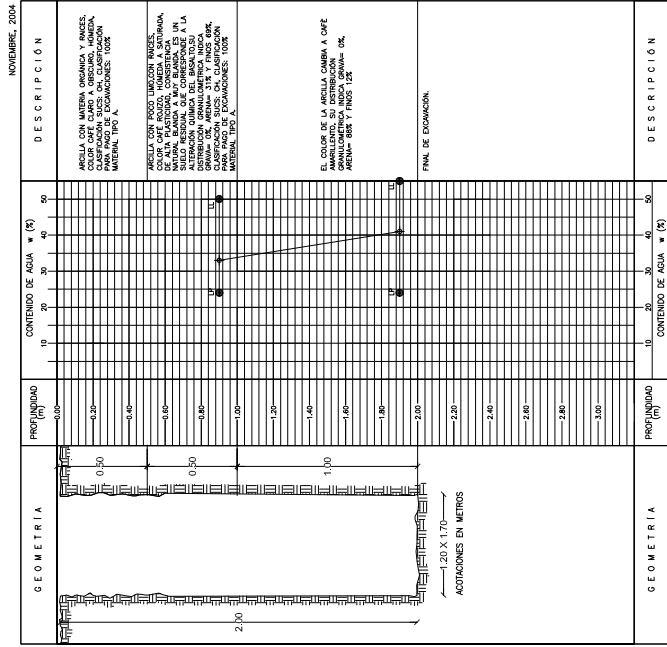


Figura II.ANXX-A.21 - Perfil estratigráfico en pozo a cielo abierto PCA-20

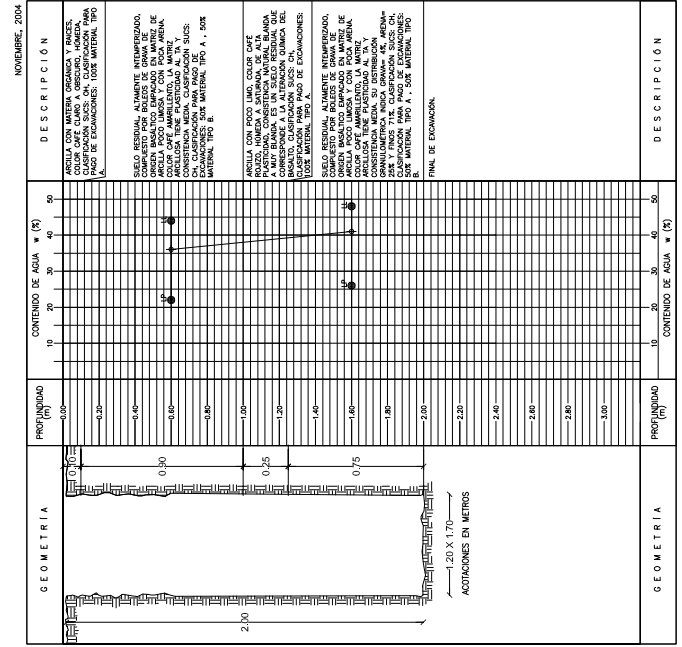


Figura II.ANXX-A.24 - Perfil estratigráfico en pozo a cielo abierto PCA-23

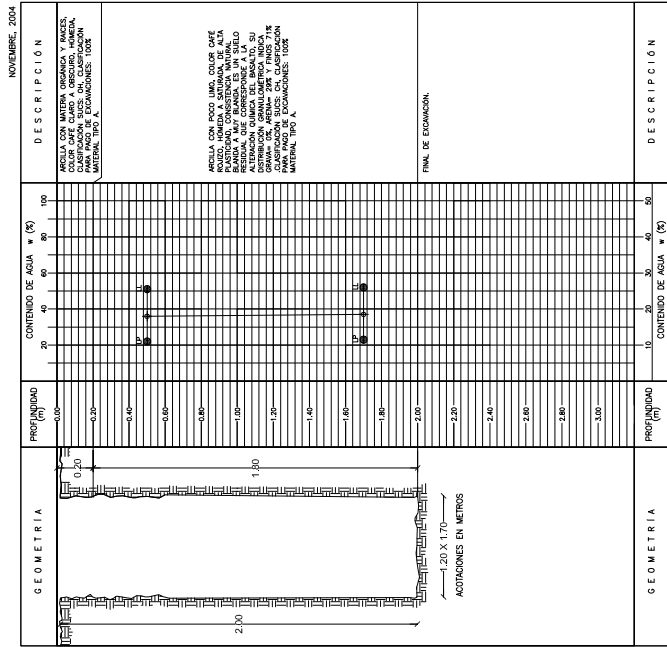


Figura II.ANXX-A.20 - Perfil estratigráfico en pozo a cielo abierto PCA-19

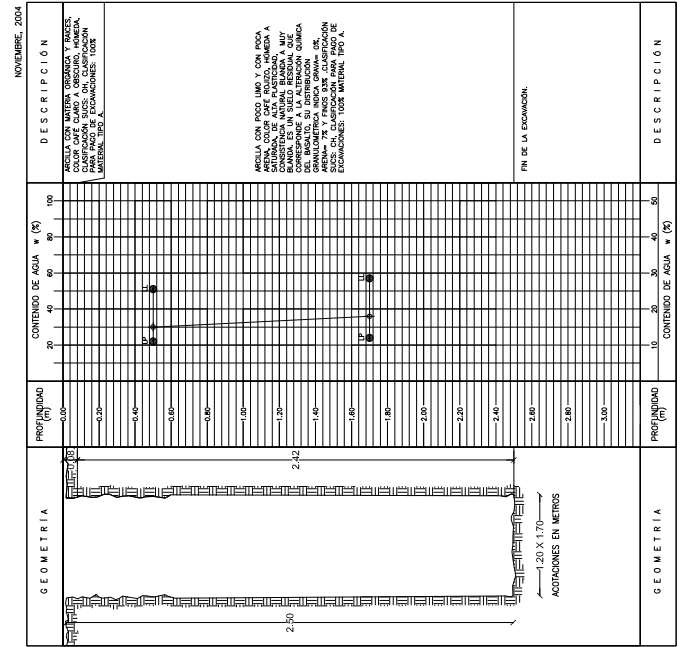


Figura II.ANXX-A.23 - Perfil estratigráfico en pozo a cielo abierto PCA-22

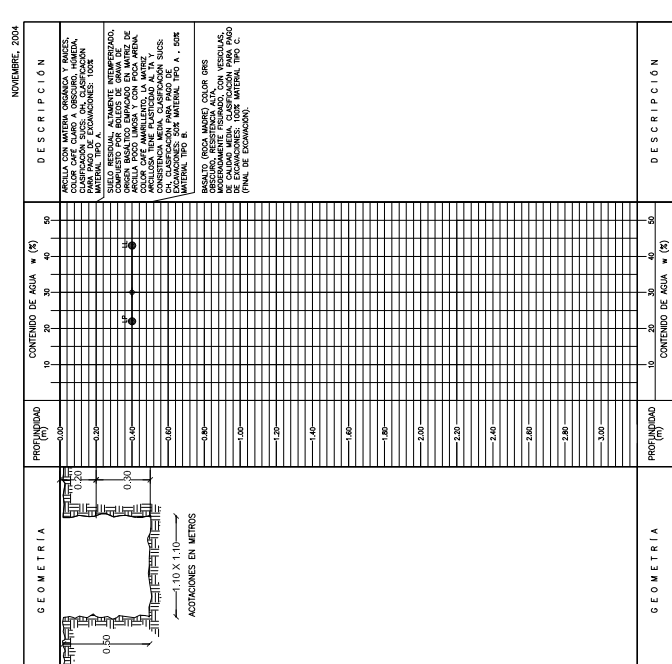


Figura II-ANX-A-25.- Perfil estratigráfico en pozo a cielo abierto PCA-25

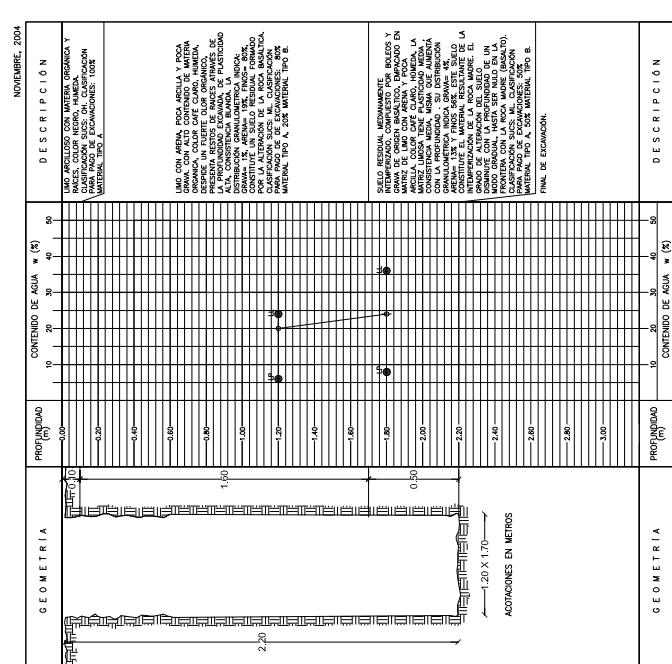


Figura II-ANX-A-26.- Perfil estratigráfico en pozo a cielo abierto PCA-26

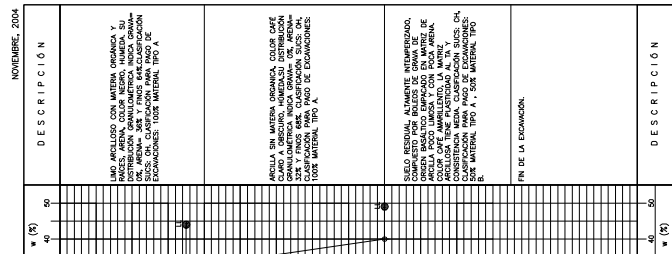


Figura II-ANX-A-27.- Perfil estratigráfico en pozo a cielo abierto PCA-27

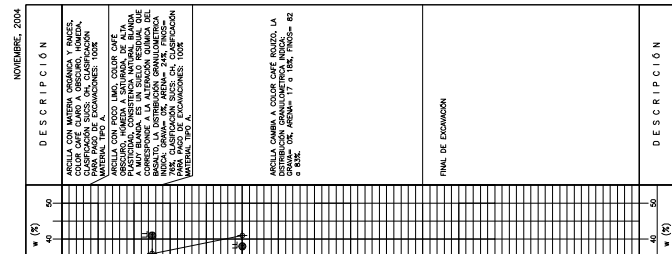


Figura II-ANX-A-28.- Perfil estratigráfico en pozo a cielo abierto PCA-28

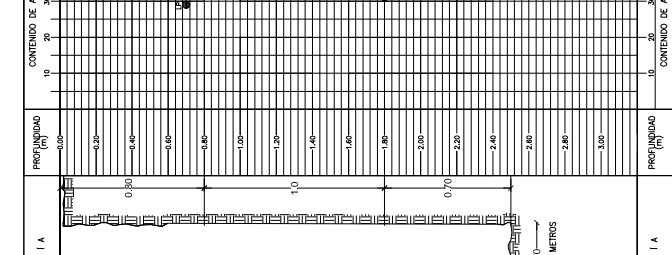


Figura II-ANX-A-29.- Perfil estratigráfico en pozo a cielo abierto PCA-29

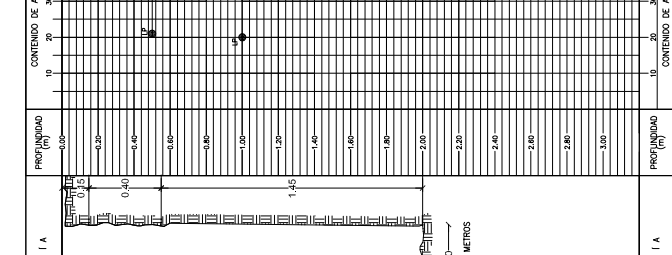


Figura II-ANX-A-30.- Perfil estratigráfico en pozo a cielo abierto PCA-30

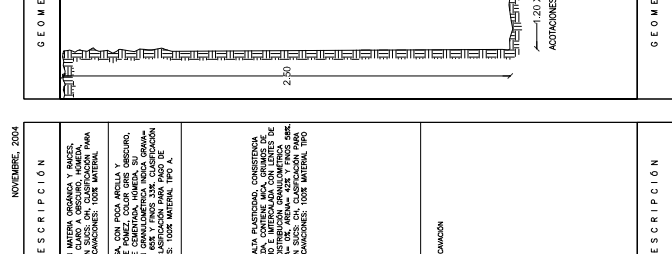


Figura II-ANX-A-31.- Perfil estratigráfico en pozo a cielo abierto PCA-31

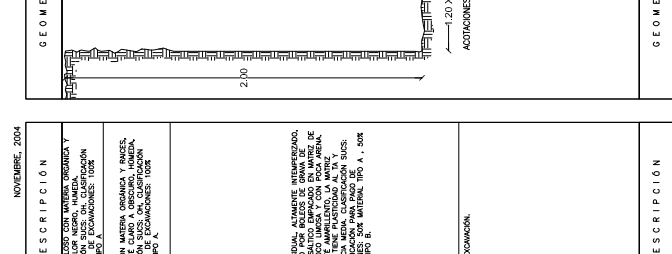


Figura II-ANX-A-32.- Perfil estratigráfico en pozo a cielo abierto PCA-32

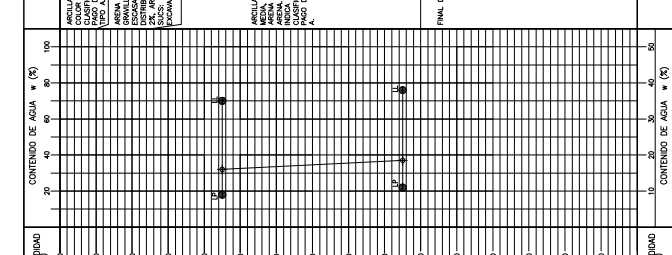


Figura II-ANX-A-33.- Perfil estratigráfico en pozo a cielo abierto PCA-33

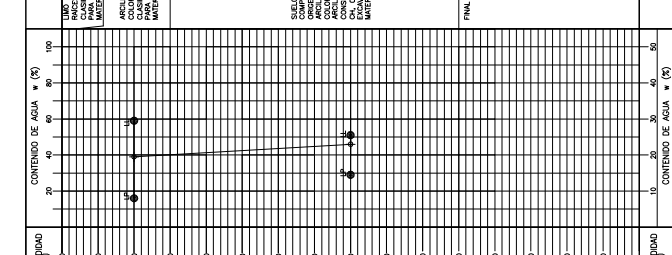


Figura II-ANX-A-34.- Perfil estratigráfico en pozo a cielo abierto PCA-34

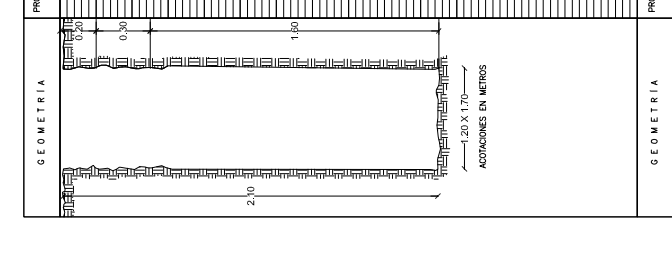


Figura II-ANX-A-35.- Perfil estratigráfico en pozo a cielo abierto PCA-35

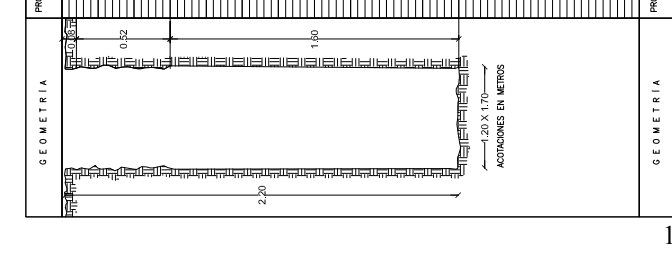


Figura II-ANX-A-36.- Perfil estratigráfico en pozo a cielo abierto PCA-36

Anexo B. Tablas y gráficas de apoyo del estudio hidráulico.

TEMPERATURA OBSERVADA (Tabla III.3.AN-X-B-1) (PROMEDIO MENSUAL)														
Estacion	Año	Enero	Febrero	Marzo	Abril	Mayo	Junio	Julio	Agosto	Septiembre	Octubre	Noviembre	Diciembre	
LATEBLADORA, JICO (3008) (Tabla III.3.AN-X-B-1.1)	1980	8.58	10.31	11.90	11.37	12.61	11.23	11.26	10.61	10.27	10.55	8.23	7.68	
	1981	6.48	7.21	8.84	9.73	12.61	11.23	11.26	10.61	10.27	10.55	8.23	7.68	
	1982	10.35	10.32	12.00	12.00	11.71	11.90	11.45	11.16	11.00	11.03	10.97	10.39	
	1983	7.68	9.39	10.26	9.70	10.58	11.93	10.97	11.16	11.80	11.03	11.10	8.62	
	1984	8.94	9.17	11.28	12.29	12.53	11.87	10.50	10.84	10.50	10.84	9.80	9.52	
	1985	8.13	9.07	11.53	10.17	11.53	11.17	10.48	10.84	9.73	9.85	9.40	ND	
	1986	6.19	9.11	7.66	12.40	13.44	11.82	11.29	10.27	9.53	9.82	9.92	7.65	
	1987	9.94	8.86	8.71	10.43	11.58	10.37	10.71	10.94	10.75	10.42	10.73	11.00	
	1988	8.39	9.76	10.94	12.47	12.28	11.70	11.45	11.23	11.33	10.32	11.00	11.00	
	1989	11.68	11.04	11.29	11.87	11.65	11.77	12.00	12.35	10.57	11.52	13.00	10.94	
	1990	6.26	5.41	5.24	7.70	8.23	9.50	10.27	10.42	10.00	9.05	7.92	7.40	
PROMEDIO	8.41	9.11	10.20	10.92	11.10	11.30	11.21	10.88	10.55	10.52	10.20	9.99	9.06	
LOS ANIHAS XALAPA (3007) (Tabla III.3.AN-X-B-1.2)	1961	12.69	13.89	19.17	21.13	24.02	ND	19.82	21.40	20.30	17.58	17.27	15.90	
	1962	12.60	17.48	19.16	19.83	21.81	22.83	21.52	23.04	21.26	20.47	16.18	14.71	
	1963	14.52	14.13	19.53	22.17	22.52	23.41	22.47	22.98	21.46	19.37	17.30	13.52	
	1964	13.42	14.81	19.34	23.14	22.94	22.89	22.31	23.89	21.98	18.04	16.06	16.30	
	1965	14.85	15.93	18.16	22.85	23.32	22.70	21.23	21.02	21.62	18.94	17.91	14.79	
	1966	12.60	14.12	ND	ND	ND	21.92	22.95	21.73	20.87	18.63	15.02	13.42	
	1967	11.95	12.23	17.15	20.38	22.20	22.70	21.29	20.69	19.72	17.37	15.08	14.21	
	1968	12.13	12.05	15.50	21.23	23.13	22.65	21.13	21.24	20.98	18.81	16.07	14.29	
	1969	12.55	14.32	14.98	20.30	21.82	ND	23.33	20.33	ND	19.60	15.80	14.18	
	1970	12.27	12.46	16.46	22.23	21.23	21.81	20.92	21.95	20.42	19.24	13.98	14.15	
	1971	14.34	15.75	17.76	22.45	22.81	22.05	21.13	20.89	20.80	18.95	16.72	15.10	
1972	13.58	14.17	19.03	21.82	22.23	22.65	20.97	20.84	20.67	19.73	17.85	14.53		
1973	12.90	13.95	19.77	20.62	23.32	23.48	22.44	21.03	21.08	18.88	16.22	13.19		
1974	13.74	13.80	17.94	21.07	22.94	21.05	20.08	21.08	20.80	18.95	16.98	14.98		
1975	12.71	14.30	18.26	22.32	23.73	22.60	22.31	21.52	19.93	19.10	16.43	14.10		
1976	12.55	12.57	19.31	21.10	21.71	23.50	21.21	20.31	18.88	17.40	14.65	13.18		
1977	12.40	12.80	17.03	17.72	20.86	20.20	20.13	20.82	18.80	18.00	15.92	13.88		
1978	12.40	12.66	14.98	18.80	22.98	21.33	21.15	20.69	19.77	17.97	16.70	14.81		
1979	13.00	13.91	16.66	21.18	20.95	22.05	21.73	19.55	19.02	17.76	15.50	14.10		
1980	13.68	13.48	17.37	18.40	21.40	21.40	20.77	21.19	18.60	17.37	15.20	13.27		
1981	12.18	13.77	16.82	19.95	23.10	21.27	21.17	20.71	20.05	19.48	17.45	16.85		
1982	15.82	16.91	ND	21.03	21.65	22.92	21.18	20.89	19.90	18.66	16.07	13.89		
1983	12.73	13.48	16.59	19.42	22.92	23.10	21.44	21.44	21.44	19.11	17.77	15.45		
1984	12.82	13.03	16.84	20.77	22.27	21.27	20.16	19.74	19.74	19.79	15.87	14.48		
1985	12.26	13.77	17.32	19.98	22.45	21.17	20.39	20.39	19.27	19.71	16.46	14.53		
1986	10.77	15.39	16.92	22.39	21.66	21.40	20.95	21.16	18.66	17.86	15.30	14.40		
1987	10.95	13.63	15.11	16.02	21.66	21.35	20.18	20.40	20.20	17.42	14.98	14.43		
1988	12.50	13.34	16.15	19.95	20.65	20.75	20.26	19.68	19.17	17.05	16.42	13.95		
1989	13.97	14.09	16.08	19.42	21.58	ND	ND	ND	20.26	18.40	17.10	16.82		
PROMEDIO	12.93	14.01	17.36	20.58	22.36	22.01	21.53	21.03	20.18	18.91	16.21	15.19	14.21	
LOS PESCADOS, (Tabla III.3.AN-X-B-1.3)	1980	4.13	4.72	8.71	11.08	13.53	10.92	10.55	10.44	8.43	7.27	5.60	2.82	
	1984	9.84	9.87	8.57	7.74	5.38	4.34	1.69	4.80	6.52	10.88	11.15	9.92	
	1985	8.68	7.52	8.87	9.37	12.34	10.75	9.84	8.97	8.57	7.74	5.38	4.34	
	1986	1.69	4.80	6.52	10.88	11.15	10.76	9.56	9.16	7.93	6.16	5.40	3.66	
	1987	2.55	4.86	6.48	8.83	11.76	10.85	9.50	9.97	8.33	4.08	4.95	5.18	
	1988	2.71	4.71	7.55	10.35	13.00	10.60	9.48	7.70	5.34	4.25	3.02	3.02	
	1989	2.82	2.79	5.18	8.57	12.58	11.90	10.42	9.98	7.75	5.13	5.20	3.92	
	1990	3.23	4.41	5.63	10.02	12.89	11.50	10.34	9.92	8.68	7.52	7.87	6.97	
	PROMEDIO	4.44	5.54	7.06	9.86	11.80	10.26	9.06	9.26	8.11	6.75	6.24	4.98	
	TEMLARERAS JICO (3078) (Tabla III.3.AN-X-B-1.4)	1966	5.96	7.58	8.26	11.59	12.48	10.72	9.35	10.05	8.90	9.18	8.92	8.01
		1967	5.87	7.97	8.26	11.59	12.48	10.72	9.35	10.05	8.90	9.18	8.92	8.01
1968		6.15	6.33	8.26	11.83	11.76	11.24	9.90	10.02	9.64	9.89	8.31	6.90	
1969		7.69	ND	ND	12.84	ND	13.74	11.02	ND	9.85	ND	ND	ND	
1970		10.92	10.20	8.97	15.32	13.42	11.53	10.34	11.02	10.73	11.10	9.93	10.69	
1971		9.68	9.88	11.11	11.58	13.00	10.30	9.03	9.21	10.52	10.63	9.65	9.02	
1972		7.71	8.79	9.97	13.62	13.44	10.86	9.97	9.34	10.48	9.97	9.48	8.98	
1973		8.24	8.11	13.92	13.02	11.22	10.35	10.68	9.85	10.68	9.44	9.40	7.32	
1974		7.42	8.18	10.84	11.02	13.18	10.05	9.85	9.47	9.53	8.65	8.52	8.04	
1975		5.89	7.66	11.13	14.50	12.44	10.10	9.06	9.42	8.63	8.75	8.99	7.41	
1976		6.03	9.45	11.00	7.68	11.00	10.37	9.52	9.47	9.45	9.07	8.97	8.17	
1977	8.55	7.39	10.68	10.60	12.84	11.07	9.42	10.68	11.53	10.84	10.97	10.16		
1978	10.90	10.64	11.29	12.78	13.52	10.00	9.61	10.45	8.59	9.05	9.18	9.03		
1979	9.27	8.45	10.05	10.55	13.72	10.85	10.87	9.29	9.33	9.29	7.77	7.61		
1980	7.02	8.24	12.40	11.83	11.05	13.32	12.90	12.67	9.61	10.11	8.60	7.65		
1981	5.38	6.98	10.18	11.43	10.15	10.24	10.15	10.24	8.60	9.94	9.40	8.03		
1982	8.87	8.59	11.08	13.32	12.90	12.87	9.61	10.11	10.00	9.27	9.53	7.78		
1983	6.61	9.25	9.55	10.65	15.86	12.33	9.82	10.18	9.00	9.11	9.98	8.35		
1984	5.82	7.21	10.06	12.82	11.24	11.28	8.82	9.60	8.40	9.52	8.47	8.60		
1985	6.73	8.39	7.68	8.83	8.73	ND	8.73	8.84	9.50	9.39	9.02	6.98		
1986	5.73	7.81	7.57	9.27	10.81	9.27	8.48	8.81	8.48	9.17	7.65	6.65		
1987	8.29	8.30	8.47	9.78	9.50	ND	10.10	10.79	ND	ND	ND	ND		
1989	8.07	8.07	10.35	10.70	12.08	12.03	11.11	10.94	9.76	10.20	10.92	10.05		
PROMEDIO	7.19	8.29	12.19	11.54	12.36	12.03	9.97	10.86	9.34	9.29	8.34	8.23	7.25	
EMILIANO ZAPATA (3018) (Tabla III.3.AN-X-B-1.5)	1980	16.94	16.71	19.44	20.48	24.24	22.38	22.70	21.85	22.35	22.87	19.17	16.94	
	1981	15.35	17.41	20.23	22.73	25.08	23.22	22.02	22.13	22.08	22.19	20.83	19.77	
	1982	18.68	22.44	21.29	23.74	23.56	23.70	23.39	23.11	22.60	21.92	20.70	17.85	
	1983	16.13	16.81	18.21	20.62	24.00	23.42	22.03	22.06	22.37	22.29	21.18	21.27	
	1984	19.82	17.60	18.50	22.75	23.77	23.20	22.27	21.94	21.43	18.55	14.27	18.55	
	1986	14.27	17.54	18.13	22.05	24.27	23.58	22.44	22.29	22.18	21.27	19.92	17.60	
	1987	15.03	17.16	19.61	23.29									

TEMPERATURA OBSERVADA
Tabla (Tabla III.3.ANX-B.1.10)

Estacion	Clave	Datos											
		Enero	Febrero	Marzo	Abril	Mayo	Junio	Julio	Agosto	Septiembre	Octubre	Noviembre	Diciembre
LA TEMBLADERA	30085	8.41	9.11	10.06	10.92	11.76	11.30	11.01	10.88	10.55	10.52	10.20	9.09
LAS ANIMAS	30087	12.93	14.01	17.36	20.58	22.34	22.01	21.25	21.03	20.15	18.51	16.21	14.31
LOS PESCADOS	30097	4.44	5.54	7.06	9.60	11.60	10.26	9.06	9.26	8.11	6.75	6.24	4.98
TEMBLADERAS	30175	7.59	8.29	10.11	11.64	12.19	11.26	9.97	10.07	9.80	9.74	9.24	8.22
EMILIANO ZAPATA	30195	16.99	18.05	19.19	22.02	23.35	22.70	21.90	21.60	22.15	21.16	19.74	18.38
LAS VIGAS	30211	4.72	5.44	7.41	8.72	9.47	9.14	8.67	8.25	7.66	6.93	5.83	5.49
XALAPA ENRIQUEZ	30228	14.41	14.45	17.30	19.46	21.10	19.72	19.82	19.64	19.33	18.15	16.72	15.35
MIRADORES	30241	13.63	14.17	16.95	19.64	22.03	21.69	20.91	20.42	19.91	18.47	16.59	15.00
LA CONCEPCION	30267	12.82	13.30	15.97	18.09	19.68	19.44	18.57	18.37	18.22	16.94	15.31	13.47
PROMEDIO GENERAL		10.42	11.12	13.37	15.47	16.91	16.29	15.57	15.43	15.00	14.03	12.66	11.43

TEMPERATURA MAXIMA MENSUAL (Tabla III.3.AN.X-B.2)													
Estacion	Año	Datos											
		Enero	Febrero	Marzo	Abril	Mayo	Junio	Julio	Agosto	Septiembre	Octubre	Noviembre	Diciembre
LA TENILADERA, JICO (00995) (Tabla III.3.AN.X-B.2.1)	1980	17	19	22	24	25	20	18	34	19	19	18	16
	1981	17	17	20	23	23	17	17	17	19	19	18	16
	1982	18	19	20	24	20	19	19	19	19	19	19	19
	1983	18	21	21	22	18	20	16	17	17.5	17	17	19
	1984	18	21	22	22	22	21	17	17	17	19	19	19
	1985	18	21	19	21	19	21	18	18	18	19	19	19
	1986	16	21	21	24	23	19	18	18	20	19	20	18
	1987	21	20	23	21	19	18	18	18	19	19	19	20
	1988	19	21	23	23	23	21	19	19	19	19	19	20
	1989	19	19	19	19	19	19	19	19	19	19	19	19
1990	18	18.5	19	19.5	22.5	19.5	18.5	18.5	18.5	18.5	18	19	
MAXIMA	21	21	23	24	25	21	19	20	34	20	19	20	
LAS ANIMAS, XALAPA (00957) (Tabla III.3.AN.X-B.2.2)	1981	24.5	28.5	33.5	34.5	32.5	31	29	31.5	31	29	28	
	1982	27.7	33.5	34	35	34	32	31	32	31.2	28.5	26	
	1983	29	30	34	35	32	32.2	37	31.8	29	26	29	
	1984	31	31.5	37	37.2	31	33.2	31	28.7	29	26	29.2	
	1985	29.5	29.5	32.5	34.5	31.5	32.5	29.5	29.5	29.5	27	29.5	
	1986	26	29.3	0	0	0	31.5	32	31	31.5	28	30	
	1987	28	29	30.5	31	34	34.5	30.5	29.5	30.5	26	30	
	1988	25.5	28.5	31.5	33	35	34	32.5	36	30	27.5	29	
	1989	29.5	27.5	37.5	36.5	34.5	0	31	28.5	0	28	30.5	
	1990	30.5	35	35	38.5	34	32.5	32	29.5	29	28.5	28.5	
LAS ANIMAS, XALAPA (00957) (Tabla III.3.AN.X-B.2.2)	1972	27.5	28.5	32	34.5	32	33	32	28.5	33	29.5	28.5	
	1973	27.5	30.5	34.5	34.5	39.5	31	30	28.5	29.5	28.5	31	
	1974	29	31	32	34	37	33.5	31	29.5	28.5	27.4	29	
	1975	29	31	34.5	35.5	36.5	35	34	31	28.5	29.5	28.5	
	1976	30.5	29.5	33.5	31	33.5	36	32	33	30	27.5	29	
	1977	30	30.5	34.5	36	38	32	29.5	30	29.5	29	29.5	
	1978	28.5	32.5	34.5	33.5	36	29.5	30	30	30.5	28.5	30.5	
	1979	32.5	31	32.5	34	33	30.5	30	29.5	28	30.5	31	
	1980	30	32	34	33.5	35.5	30	29	30	29.5	31	29	
	1981	25.5	31	32	32.5	34	31	30	30.5	28.5	29	31	
LAS ANIMAS, XALAPA (00957) (Tabla III.3.AN.X-B.2.2)	1982	32	31.5	0	37.5	31	33	30	30.5	29	31.5	30	
	1983	31	29	32.5	36	36	33.5	30	27.5	31	31.5	31	
	1984	29.5	35	37	37	31.5	28.5	29.5	29.5	33.5	29.5	28.5	
	1985	31.5	30.5	33.5	34	33	33.5	31.5	31.5	31	28	28.5	
	1986	27	35	33.5	35	34	31	30	31	30	29	28	
	1987	32	32	32	31	32.5	30	28.5	30	26.5	30	31	
	1988	29.5	30.5	32	34	34	31	30.5	28.5	30	27.5	32.5	
	1989	31	34.5	36.5	33	32.5	0	28	28	29	30	27.5	
	MAXIMA	32.5	35	37.5	38.5	39.5	36	37	37.5	33	33.5	33	31.5
	LAS ANIMAS, XALAPA (00957) (Tabla III.3.AN.X-B.2.3)	1980	20.5	23.5	23	23	21	18	17.2	18	17.2	19	20
1981		19	17	17.5	16	17.5	14.5	14.5	18.5	22	23	22	
1982		18.5	17	17.5	16	17.5	14.5	14.5	18.5	22	23	22	
1983		18.5	17	17.5	16	17.5	14.5	14.5	18.5	22	23	22	
1984		14.5	18.5	22	23	23	18	17	17.5	17	17.5	17.5	
1985		19.5	21	23	20	21	18	16	18.5	18	17	17.5	
1986		16.5	21	20.5	22.5	22	20	17	17.5	16.5	16	18.5	
1987		17	18	20.5	19	21.5	22	19	17.5	17.5	17	17.5	
1988		17	18	19.5	20	23	19	16	16	20.5	18	18	
1989		20.5	21	23.5	23	23	22	19	18.5	22	23	22	
MAXIMA	20.5	21	23.5	23	23	22	19	18.5	22	23	22	20	
TEMILADERAS, JICO (00775) (Tabla III.3.AN.X-B.2.4)	1980	16	19	20	27.2	24	17	20	17	18	19.2	19	
	1981	17.2	19.2	20	27.2	24	17	20	17	18	19.2	19	
	1982	15	19	19	20	19	19	15.8	18	17	15	14	
	1983	15.8	17.8	18.5	23.5	22.5	21	20	18	19	18	18	
	1984	18	19	21	25	23	17	17	16.5	16	17	17	
	1985	15.5	18	17	21.5	21.5	17.5	15.5	17	16.5	18.5	17.5	
	1986	19	18	24.5	22	25	18	16	16	16.5	16.5	15.5	
	1987	19	18	20.5	21	21.5	18.5	16	16.5	16.5	15	15.5	
	1988	16	15	22	23	21	17	15	15	15.1	15	14	
	1989	15	15	19	20	16	17	15	15	15	16	14	
TEMILADERAS, JICO (00775) (Tabla III.3.AN.X-B.2.4)	1990	15	16	16	16	16	16	16	16	16	16	16	
	1972	15	15	19	20	16	17	15	15	15	16	14	
	1973	15	15	18	16	16	16	16	16	16	16	16	
	1974	15	15	19	20	16	17	15	15	15	16	14	
	1975	15	15	19	20	16	17	15	15	15	16	14	
	1976	15	15	19	20	16	17	15	15	15	16	14	
	1977	15	15	19	20	16	17	15	15	15	16	14	
	1978	15	15	19	20	16	17	15	15	15	16	14	
	1979	16.1	19	23	23	21.5	19	16	17	17	16	16.5	
	1980	16.5	17	22	21.5	21	23.5	21.5	24	15	17.5	16	
TEMILADERAS, JICO (00775) (Tabla III.3.AN.X-B.2.4)	1981	16	18.5	19.5	16.5	16	16.5	16	16.5	16	17	17	
	1982	18.5	17.5	21	23.5	21.5	24	15	15	17	16.5	16.5	
	1983	19.5	19	21	19	28	23	16.5	16	15.5	16	17	
	1984	19	17	20	17	21.5	19	19	19	17	17	17	
	1985	16	17.5	20	17.5	17	0	17	16	16	15.5	17	
	1986	15	17	19	21	21	0	15	16	17	0	16	
	1987	19	20.5	22	16	20	0	16.5	17	0	0	0	
	1988	17	17	19	18	22	22.5	18	17	19	17.6	16.6	
	1989	19.5	20.5	24.5	27.2	28	24	21.5	24	22	20	22	
	MAXIMA	20.5	21	23.5	23	23	22	19	18.5	22	23	22	20
ENLIANO ZAPATA (00189) (Tabla III.3.AN.X-B.2.5)	1980	32.5	36	37.5	39	40	35	34	35	34	33.5	33.1	
	1981	29	32.5	37	37	38.5	36	34.5	33	34	34.5	33.4	
	1982	33.5	35	35	40	37	36	33.5	33.5	36	33.5	33	
	1983	32	31.5	41	39	39.5	37.5	33	33.5	33	34	32.5	
	1984	33.5	31	39.5	42	40.5	37	33.5	31.5	31.5	30.5	31.5	
	1985	31.5	36	38.5	39.5	39.5	36	35	35	34	32.5	33.5	
	1986	31.5	36.5	39	36.5	33	34	35	35	36.5	33	34	
	1987	36	36	40	38.5	38	35	36	34.5	34.5	36.5	31.5	
	1988	35	38	38.5	38	38	40	36	35.5	34.5	34.5	34.5	
	1989	35.5	38.5	40	39.5	39.5	35	36.5	35.5	33.5	34.5	33	
MAXIMA	35	38.5	41	42	40.5	40	36	36.5	36.5	33.5	34.5	33	
LAS VEGAS LAS VEGAS (00211) (Tabla III.3.AN.X-B.2.6)	1981	20.2	23.2	26.2	28	28	23	20	22	20	22	21	
	1982	17.5	25	26	26	26	25	22	21.5	22	22	22	
	1983	22	20.5	23	26	24.8	24	20	20	19	16	18.5	
	1984	20	23	23	26	28.5	28	20	20	18.5	17.5	17.5	
	1985	18	19.5	24	25	25	24.5	20	20.5	21	19.5	19	
	1986	18.5	20.5	22.5	23.5	26.1	23	20	21.5	20.5	18.5	19.8	
	1987	19	18.5	23	26.2	29	25	20	20.5	20.5	18.5	19	
	1988	15.5	20	24	25	29	25	21	19.5	22	19.8	22	
	1989	20.5	18	28	29	28.5	26	21					

TEMPERATURA MINIMA MENSUAL (Tabla III.3.ANX-B.3)													
Estación	Año	Meses											
		Enero	Febrero	Marzo	Abril	Mayo	Junio	Julio	Agosto	Septiembre	Octubre	Noviembre	Diciembre
LA TENEBLADERA, JCO (30085) (Tabla III.3.ANX-B.3.1)	1980	-2	0	1	3	3	2	2	4	3	2	1	-0.2
	1981	0	3	0	2	3	3	3	2	2	1	3	0
	1982	0	3.5	3	3	3	3	3	2	2	1	0	0
	1983	0	0	0	2	2	2	3	2	2	2	2	-3
	1984	-2	0	2	2	2	2	2	2	2	2	3	-3
	1985	-4	4	2	4	2.5	3	3	2.5	2	2	2	-2
	1986	-4	0	4	-6	4	4	4.5	3.5	4	3	1	-1
	1987	-2.2	-2	-3	-2	6	1	5	4.5	3.5	3	2	1
	1988	-5	-2	1	2	2	2	2	2	2	1	1	-3
	1989	0	-2	-3	-1	2	2	2	2	2	2	2	-3
	1990	0	-2.5	1.5	-1	1.5	3	2.5	2.5	2	-1	-2	-3
MINIMA		-5	-2.5	-6	-1	1.5	1	2	2	0	-1	-2	-3
LAS ANIMAS, XALAPA (30087) (Tabla III.3.ANX-B.3.2)	1961	4.5	7.7	9.6	11.5	11.5	0	14	13	10.5	7	7	
	1962	4	7	9	7.5	10	13	13.5	13.8	14	12.5	6.5	10
	1963	6	1	10	11	12	13.5	13	13	15	10	8.5	3
	1964	5	8	9	11.5	12.8	12.8	13	13	15	9	8.6	8
	1965	5	7	9	11.5	13	13.3	13	14.5	13.5	7	11	9
	1966	5	5.5	0	0	0	10.3	13	13	13.5	9	4	4
	1967	4	1	13	10	10	13.5	12	11.5	10	7.5	8	6.5
	1968	5	3	5.5	11.5	12	13.5	12.5	12.5	14	8	6.5	7
	1969	6	8	8	9	11	0	13.5	14	0	10	7	8
	1970	5.5	5	7	8.5	7	11.5	12.5	13	13.5	12	0	6.5
	1971	6	3	4	8.5	11	11	11.5	11.5	12.5	9.5	8	9
1972	9.5	6	9.5	11.5	11.5	15	11.5	12	12.5	11.5	12	6.5	
1973	1	6	10	9	13	13	12	11.5	13	11	7.5	5	
1974	9.5	5.5	5.5	11.5	12	11.5	12	11	11	9	5	8.5	
1975	4	5	9.5	11	14.5	13.5	12.5	13	10	9	6.5	8	
1976	7	2	11	10	11	13.5	12	13	13	11	10	8.5	
1977	6	8	7.5	8	11.5	13	11.5	12.5	14	11	9	4	
1978	7.5	7	7	9	14	13	13.5	11.5	12.5	9	10.5	6.5	
1979	4	7.5	10	12	12.5	11.5	13	13	9	9.5	9.5	8	
1980	7	6	5	9	9	12	13	14	14	11	10	6.5	
1981	6.5	8.5	11	8.5	11	12.5	12	13	13	12	7	9	
1982	5.5	9	0	12	12	9	12.5	11.5	10.5	10	9	4.5	
1983	7	5.5	9	10	12	11.5	13	13.5	12	10.5	11	4.5	
1984	5.5	7	8.5	12	12	12	12.5	13	11.5	11.5	8.5	6.5	
1985	3	7	10.5	9	13	13.5	12	13	13	12	8	7	
1986	3	8	4.5	8.5	11.5	11	12	13	11	8	6	9	
1987	3	2	4.5	13	11	13	11	14	13	8.5	9	8.5	
1988	6	4.5	7	10.5	11.5	14	14	14	11.5	11	9.5	8	
1989	9	5	4.5	10.5	12	0	0	13.5	11.5	8.5	10.5	1	
MINIMA		1	1	1.3	5	7	9	11	11.5	11.3	7	0	1
LOS PESCADOS, PEROTE (30097) (Tabla III.3.ANX-B.3.3)	1964	0	0	0	0	0	19	17	17	19	14	0	
	1980	-4	-3.5	-0.5	-2	2	-2	-2	1	-1	-1	-2.5	
	1984	2.2	1	1	0	-4	-2	-7	-4	-6.5	0	3	
	1985	1.5	1.5	-3	-1	0	0	2	1	0	-2	-4	
	1986	-7	-4	-6.5	0	0	1	3	1.5	2	-4	-3	
	1987	-3.5	-3	-7.5	1	2	4.5	4.5	4	2	-2	-2	
	1988	-4	-2.5	-2	1.5	4.5	3	3.5	3	-1	1.5	0	
	1989	-1	-6	-2	0	3	1.5	3.5	2.5	1	1	-2.5	
	1990	0	-2	2	2	2.5	2	3	3	2	1.5	-1.5	
	MINIMA		-7	-6	-7.5	-3	-4	-2	-7	-4	-6.5	-4	-6.5
	TEMLADERAS, JCO (30179) (Tabla III.3.ANX-B.3.4)	1965	0	0	0	0	0	0	0	0	0	0	0
1966		-1.2	0.5	0	0	0	2.2	4.3	4	3	1	0	
1967		-0.2	-0.2	0	0	2.7	2	3	3	3	1	0	
1968		0	0.1	0	4	4	3	4	3.5	4	1	0	
1970		0.5	1	1.5	2	1.5	3	3	4	4	3	-0.3	
1971		-2.5	0	0	0	0	2	3	3	4	1.5	0	
1972		0	-4	0	0	3	4.5	2.5	3.5	4	2	3.5	
1973		0	0	2	1.5	3	2.5	3	3	3.5	2.5	-0.1	
1974		0	-3	0	1	1	1.5	2	1	3	1	0	
1975		0	0	0	0	4	3	3	2	1	1	1	
1976		2	2	2	2	3	3	3	3	3	3	2	
1977	2	2	2	2	3	3	3	3	4	3	3		
1978	3	2	2	2	3	3	3	3	1	2	2		
1979	0.1	2	0.1	3	3	1	3.5	4	5	1	0		
1980	0.1	1	1	0	0.1	2	5	4.5	5	1.5	0.1		
1981	0	0	3	2.5	3	4	3	4	3.5	2.5	0		
1982	1.5	1	0.1	0	5	4.5	5	4	0	1.5	0		
1983	0	0	0	0	5	4	4	4	0	1	0		
1984	0	0	0	2	3	3.5	0	3.5	0	0	0		
1985	0	0	0	0	4	0	0	3.5	0	2	0		
1986	0	0	0	0	2	0	0	0	0	0	0		
1987	-2	0	0	0	0	0	1.5	3	0	0	0		
1989	0	0	0	0	0	3.5	4	1	2	1	0.5		
MINIMA		-2.5	-4	0	0	0	0	0	0	0	-0.3	-1	
EMILIANO ZAPATA (30195) (Tabla III.3.ANX-B.3.5)	1980	10	10.5	9.5	10	19	19.5	20	19.5	19	14	12	
	1981	10	12	13	17	19	20	19	19	17.5	18	14.5	
	1982	9.5	17	17	11	18	19	20	19.5	18	15.5	12.5	
	1983	10.5	10	11.5	13.5	20	21	19	19.5	18	19	18.5	
	1984	10	13	12	15.5	18	18.5	17.5	17	18	12.5	8.5	
	1986	8.5	11.5	11	15.5	17.5	19.5	17	19	18.5	14	10	
	1987	10	9	9	15	15	13	11	11	19	15	13	
	1988	11	10	11	14	17.5	19.5	19	19	18	17	16	
	1989	13	10.5	10	16.5	18	18.5	18	19	18	17.5	17	
	1990	11.5	13.5	11.5	17.5	18	19.5	19.5	19	18.5	17	16	
	MINIMA		8.5	9	9	10	15	13	11	17.5	12.5	8.5	7.5
LAS VIGAS, LAS VIGAS (30211) (Tabla III.3.ANX-B.3.6)	1961	0	-3.2	0.2	2	0.8	6.2	5.2	3.6	0	1	-1.5	
	1962	-4	1	3	2	3	6	7	4.5	-2	4	-2	
	1963	-2	-3	3	1.5	4.5	6	7.5	6	6	2.5	2	
	1964	-5	1.5	3.5	5	3	6.5	7	6	3	2.5	3.5	
	1965	-2.5	-2	2	5.5	5	5	7	5.5	1	2	1.5	
	1966	-3	2	0	0	6.5	5	6.5	6	6	1	-1.5	
	1967	-1.5	-1	1.5	3.5	3.5	4.5	5	6	1	1.5	-2.5	
	1968	-1.5	-3	-3	5	2	5.5	6.8	5.5	-1	2	-2	
	1970	2	0	1	0.5	0.5	4.5	5	6.5	4.5	-2	0.5	
	1971	0	-0.5	-1	-2	3	3.5	5.5	4	6.5	2	0	
	1972	1	-3	3.5	3	4	6	4.5	6.5	2.5	5	-3	
1973	-3.5	3.5	3	3.5	3.5	7	6	5	4.5	0.5	-2		
1974	2.5	-1	0	3	4.5	3	4	5.5	3	0.5	-3		
1975	-4	0	3	2.5	7	7	5.5	5.5	1	0	-1.5		
1976	-0.5	-6	2.5	3.5	4.5	5	5	6	2.5	2.5	-1		
1977	-1	1	1	2	2	2.5	4	3.5	4	0.5	-4		
1978	-3	-3	-2	1	4	5	6	4	5	-2	1		
1979	-6	0	2	4	5	-1	4	3.5	-1	-1	-3		
1980	-4	-6	1	1	3.5	-1	-1	-1	-1	-1	-0		
1981	-4	-1	-1	0	5	1	3	3	-2	-1	0		
1982	0	0	-2	3	4.5	1	4	3	-1	-1	-5		
1983	-3	-3	-1	2	2.5	4	2	4	2	4	1		
1984	-7	-2	2	1	1	2	3	2	1	-5	-2		
1985	1	-2	1	-3	0	1	3	2	3	2	-2		
1986	-8	-2	3	-2	2	3	-2	1	1	0	-2		
1987	-8	-7	-8	-8	1	3	2	3	2	-4	-3		

PRECIPITACION PROMEDIO MENSUAL (Tabla III.3.AN.X-B.4)

Estacion	Año	Meses												Suma por año
		Enero	Febrero	Marzo	Abril	Mayo	Junio	Julio	Agosto	Septiembre	Octubre	Noviembre	Diciembre	
LA TUMBADERA, I.C.C. (NOVA) (Tabla III.3.AN.X-B.1)	1965	43.40	38.80	70.40	172.70	69.50	298.40	224.00	205.00	507.90	159.20	48.70	93.50	1665.70
	1966	18.00	4.00	42.00	61.10	31.80	224.00	371.90	396.80	250.60	61.10	20.70	1730.60	
	1967	66.70	14.70	21.30	28.90	56.70	207.90	228.30	338.20	270.10	128.10	34.60	246.60	1419.10
	1968	63.00	14.60	25.00	41.60	59.00	202.00	245.60	352.20	245.60	128.10	34.60	246.60	1419.10
	1969	47.80	29.90	70.20	44.50	47.50	151.10	435.40	497.20	577.20	72.10	25.00	5.10	2105.50
	1970	34.40	163.90	0.30	32.70	31.90	252.90	372.30	347.30	568.70	80.10	28.30	0.00	1944.40
	1971	19.00	4.00	42.00	61.10	31.80	224.00	371.90	396.80	250.60	61.10	20.70	1730.60	
	1972	109.80	31.80	126.50	399.60	161.70	410.30	535.40	340.80	198.50	111.20	154.10	13.60	2239.30
	1973	2.60	38.60	6.80	38.60	21.40	386.80	211.90	368.60	211.90	45.80	30.10	151.20	1515.20
	1974	58.90	15.60	28.30	95.50	90.50	300.80	398.90	164.10	813.00	47.40	30.20	28.20	2077.40
	1975	47.40	47.80	20.00	28.70	39.90	288.90	298.20	301.40	181.70	9.00	3.00	53.30	1739.20
	1976	47.40	32.70	20.00	81.20	97.00	228.90	318.70	184.20	91.00	42.30	5.20	192.30	1527.30
	1977	5.00	40.30	7.40	58.80	31.30	213.90	198.40	294.00	124.90	142.30	60.90	67.10	1268.60
	1978	18.50	23.40	8.70	43.50	24.80	248.90	138.20	248.90	138.20	40.80	22.20	40.80	1388.70
	1979	21.60	41.10	21.00	82.40	20.30	130.90	212.10	498.00	305.70	46.70	37.90	86.50	1462.60
	1980	10.80	12.00	6.30	169.80	6.30	228.40	245.20	228.40	62.20	138.80	62.20	138.80	1591.90
	1981	70.40	31.30	80.30	61.30	72.10	471.80	239.70	367.90	276.10	104.00	8.30	67.90	1890.80
	1982	9.70	10.10	86.70	78.70	114.00	141.20	411.20	141.20	411.20	141.20	141.20	141.20	1415.20
	1983	31.30	15.10	40.30	0.00	13.60	37.80	410.00	227.70	349.90	101.30	63.20	25.60	1338.20
	1984	59.00	47.80	32.50	95.50	217.60	216.40	499.80	256.80	398.60	75.00	42.90	84.10	1760.60
1985	77.00	60.80	85.40	102.70	31.00	411.70	311.00	411.70	233.20	233.20	54.10	0.00	1988.80	
1986	25.00	23.70	16.50	28.80	100.90	265.60	298.20	229.50	325.10	133.80	157.70	70.20	1774.00	
1987	2.50	17.80	16.80	18.20	44.20	182.20	44.20	498.20	212.70	182.20	31.70	187.50	1387.50	
1988	71.80	56.20	80.20	83.50	80.00	247.60	254.70	282.30	58.50	51.00	39.20	30.20	1324.50	
1989	37.10	26.00	22.10	43.50	39.00	236.10	197.50	131.10	119.20	48.00	94.20	105.10	1141.20	
1990	46.50	71.50	29.00	29.00	245.40	245.40	317.40	224.60	317.40	60.00	11.00	64.10	1415.10	
PROMEDIO	38.68	48.83	38.68	59.73	67.44	286.30	308.12	308.12	295.86	86.73	53.73	43.64	1628.15	
LAS ANIMAS, S.A. (NOVA) (Tabla III.3.AN.X-B.2)	1961	63.20	23.30	45.90	37.60	45.90	298.90	133.70	133.70	133.70	133.70	133.70	133.70	
	1962	26.30	9.60	32.10	52.00	44.30	148.90	269.90	109.70	168.30	40.90	40.90	1266.50	
	1963	78.70	10.40	33.10	64.80	60.00	140.00	228.00	163.00	74.50	24.50	82.80	1082.10	
	1964	48.80	65.50	10.10	31.70	99.00	256.90	139.90	151.10	184.10	44.80	34.60	77.90	1111.90
	1965	48.10	87.20	33.80	13.10	55.00	335.00	108.30	142.20	189.30	150.60	38.50	107.00	1307.90
	1966	26.80	47.30	27.90	77.90	35.00	160.40	141.10	201.40	184.80	218.40	63.90	26.90	1164.80
	1967	26.80	47.30	27.90	77.90	35.00	160.40	141.10	201.40	184.80	218.40	63.90	26.90	1164.80
	1968	44.90	59.80	11.20	48.80	41.80	0.00	237.10	410.30	0.00	109.90	41.40	109.40	1195.40
	1969	44.90	59.80	11.20	48.80	41.80	0.00	237.10	410.30	0.00	109.90	41.40	109.40	1195.40
	1970	40.30	87.20	33.80	13.10	55.00	292.70	150.90	150.90	150.90	150.90	111.80	147.10	1332.10
	1971	14.40	42.90	11.20	7.50	37.60	309.40	150.80	176.60	437.00	23.00	226.90	90.00	1520.20
	1972	32.20	24.90	69.80	41.50	162.20	290.70	490.20	164.70	100.20	60.40	13.00	160.70	1629.30
	1973	43.40	84.80	9.30	30.30	34.50	148.30	94.80	134.40	73.90	26.30	68.30	138.40	1384.40
	1974	79.80	32.90	77.30	34.20	44.40	274.90	194.90	87.30	585.60	41.50	28.40	31.10	1511.90
	1975	22.50	16.10	29.30	5.30	20.30	203.30	129.30	159.30	159.30	6.30	60.80	125.80	1258.80
	1976	29.40	18.80	9.20	54.90	110.20	470.90	200.80	111.20	220.70	166.70	42.30	42.30	1422.40
	1977	43.80	58.50	21.40	69.30	46.40	326.00	138.20	131.00	422.30	130.10	12.40	78.40	1482.10
	1978	47.70	27.20	37.80	96.80	140.50	120.00	342.00	342.00	250.90	41.00	74.80	89.80	1562.10
	1979	44.10	45.90	1.00	11.00	144.40	111.10	144.40	111.10	233.90	320.80	59.10	43.10	1317.10
	1980	78.60	28.00	78.90	71.80	106.60	404.40	311.30	319.70	239.30	37.20	29.50	69.20	1772.30
1981	82.10	107.10	0.00	130.00	252.00	212.00	412.00	212.00	126.80	126.80	31.20	112.00	1426.80	
1982	60.00	51.70	22.90	30.70	362.20	307.70	214.90	181.10	181.10	73.60	93.70	34.50	1384.60	
1983	69.50	51.50	23.30	19.40	220.30	214.10	326.30	183.50	381.40	48.40	40.60	45.50	1634.80	
1984	92.00	59.00	29.20	29.20	29.20	29.20	29.20	29.20	110.40	115.30	30.90	130.40	1304.40	
1985	8.70	51.80	23.60	43.20	278.40	190.10	138.80	95.30	306.70	136.70	132.30	72.30	1472.30	
1986	15.10	22.20	48.80	17.30	245.20	49.10	245.20	94.10	49.10	245.20	60.00	99.20	992.20	
1987	63.30	78.60	70.50	91.40	88.50	167.40	96.00	105.90	105.90	90.00	46.70	1174.00	1174.00	
1988	45.20	18.70	17.10	99.60	89.50	0.00	0.00	203.70	140.00	66.00	62.00	77.30	773.30	
1989	45.20	18.70	17.10	99.60	89.50	0.00	0.00	203.70	140.00	66.00	62.00	77.30	773.30	
PROMEDIO	45.68	55.11	45.68	67.23	67.23	215.94	215.94	215.94	215.94	64.44	51.99	41.99	1628.15	
LOS PECADOS, S.P.A. (NOVA) (Tabla III.3.AN.X-B.3)	1964	0.00	0.00	2.90	6.90	49.60	228.30	42.00	12.40	85.50	2.00	62.10	30.30	500.00
	1965	28.00	4.30	0.00	0.00	10.70	81.60	130.70	81.60	130.70	81.60	130.70	81.60	404.60
	1966	4.00	26.60	49.80	49.50	79.20	123.70	83.80	71.40	27.65	124.40	22.70	7.30	911.10
	1967	0.00	7.40	15.70	10.70	10.70	10.70	245.10	61.90	112.00	172.00	112.00	172.00	619.00
	1968	16.00	45.90	0.10	45.90	31.30	125.40	79.60	91.10	114.40	42.70	11.40	42.70	543.00
	1969	39.00	15.40	30.20	18.40	44.50	44.60	170.60	209.80	206.00	7.50	10.40	0.00	922.10
	1970	8.80	58.80	0.00	1.00	0.00	139.70	82.90	139.70	82.90	8.60	0.00	0.00	922.10
	1971	18.20	42.00	26.50	37.00	71.00	62.00	127.90	73.30	78.20	82.60	97.20	26.80	709.20
	1972	14.20	45.00	0.00	0.00	0.00	481.60	167.90	167.90	167.90	167.90	167.90	167.90	7034.90
	1973	0.00	11.60	0.00	46.20	53.80	93.80	287.40	288.80	237.60	168.80	62.40	57.40	1636.60
	1974	38.80	11.50	21.80	21.70	11.80	228.10	117.40	117.40	117.40	48.10	4.80	104.10	1041.10
	1975	8.70	23.80	0.00	15.70	121.80	111.50	57.50	27.80	316.00	111.30	13.20	29.00	837.30
	1976	36.20	18.80	10.00	65.40	48.80	169.10	134.90	82.80	66.80	102.40	12.40	6.10	753.70
	1977	2.00	1.00	0.00	0.00	0.00	42.00	73.50	73.50	73.50	73.50	73.50	73.50	436.50
	1978	6.20	18.80	48.00	4.00	32.60	183.00	64.10	81.70	203.80	84.10	10.20	9.60	755.90
	1979	1.20	26.20	0.20	1.40	107.60	1							

EVAPORACION PROMEDIO MENSUAL (Tabla III.3.ANX-B.5)

Estacion	Año	Datos												Suma por año	
		Enero	Febrero	Marzo	Abril	Mayo	Junio	Julio	Agosto	Septiembre	Octubre	Noviembre	Diciembre		
LA TEMBLADERA, JICO (30085) (Tabla III.3.ANX-B.5.1)	1980	30.00	48.00	114.00	81.00	109.00	106.00	71.00	56.00	59.00	46.00	49.00	43.00	811.00	
	1981	30.00	40.00	99.00	88.00	51.00	65.00	25.00	53.00	50.00	55.00	44.00	55.00	655.00	
	1982	41.00	40.00	75.00	76.00	86.00	93.00	81.00	72.00	42.00	70.00	50.00	56.00	782.00	
	1983	39.00	54.00	76.00	63.00	57.00	60.00	28.00	51.00	42.00	41.00	72.00	56.00	639.00	
	1984	61.00	61.00	99.00	108.00	72.00	55.00	41.00	58.00	35.00	59.00	56.00	29.00	720.00	
	1985	67.00	69.00	85.00	66.00	82.00	26.00	56.00	77.00	44.00	50.00	60.00	56.00	681.00	
	1986	30.00	86.00	99.00	104.00	77.00	58.00	72.00	51.00	50.00	41.00	51.00	45.00	764.00	
	1987	81.00	68.00	94.00	77.00	60.00	44.00	47.00	57.00	50.00	72.00	57.00	82.00	789.00	
	1988	58.00	58.00	78.00	74.00	79.00	65.00	50.00	28.00	59.00	44.00	61.00	42.00	696.00	
	1989	37.00	49.00	57.00	42.00	61.00	39.00	50.00	34.00	32.00	64.00	66.00	56.00	587.00	
	1990	49.00	37.00	51.00	79.00	91.00	30.00	34.00	35.00	19.00	31.00	44.00	59.00	559.00	
PROMEDIO	46.27	55.45	84.36	78.00	75.91	58.18	50.45	52.00	43.82	52.09	55.09	47.55	699.18		
LAS ANIMAS, XALAPA (30087) (Tabla III.3.ANX-B.5.2)	1961	27.00	55.00	109.00	103.00	130.00	0.00	88.00	86.00	93.00	62.00	50.00	46.00	849.00	
	1978	30.00	45.00	73.00	81.00	108.00	76.00	89.00	77.00	60.00	40.00	27.00	21.00	727.00	
	1979	27.00	43.00	60.00	95.00	80.00	83.00	87.00	68.00	54.00	60.00	21.00	21.00	699.00	
	1980	24.00	42.00	77.00	73.00	99.00	83.00	88.00	88.00	75.00	56.00	30.00	25.00	725.00	
	1981	20.00	38.00	67.00	91.00	97.00	67.00	83.00	93.00	63.00	64.00	47.00	35.00	765.00	
	1982	56.00	57.00	0.00	101.00	74.00	104.00	95.00	95.00	89.00	58.00	39.00	28.00	796.00	
	1983	33.00	35.00	99.00	99.00	107.00	77.00	84.00	100.00	70.00	57.00	47.00	35.00	843.00	
	1984	17.00	40.00	81.00	130.00	110.00	88.00	79.00	81.00	42.00	70.00	56.00	47.00	841.00	
	1985	41.00	45.00	74.00	91.00	96.00	62.00	77.00	98.00	77.00	66.00	50.00	23.00	800.00	
	1986	45.00	75.00	77.00	107.00	103.00	96.00	93.00	99.00	71.00	84.00	42.00	18.00	910.00	
	1987	40.00	44.00	58.00	60.00	99.00	72.00	68.00	92.00	77.00	75.00	46.00	29.00	760.00	
1988	23.00	42.00	71.00	97.00	79.00	73.00	97.00	81.00	71.00	50.00	67.00	27.00	778.00		
1989	45.00	58.00	78.00	97.00	114.00	0.00	0.00	99.00	74.00	71.00	53.00	23.00	701.00		
1990	45.00	47.46	71.08	94.23	99.69	67.77	97.08	68.77	61.24	62.84	44.23	29.08	797.15		
PROMEDIO	32.42	47.46	84.23	94.23	99.69	67.77	97.08	68.77	61.24	62.84	44.23	29.08	797.15		
LOS PESCADOS, PEROTE (30097) (Tabla III.3.ANX-B.5.3)	1980	72.00	108.00	181.00	156.00	118.00	96.00	104.00	75.00	65.00	80.00	72.00	59.00	1186.00	
	1984	87.00	101.00	77.00	71.00	84.00	56.00	72.00	121.00	160.00	148.00	96.00	87.00	1160.00	
	1985	42.00	45.00	150.00	108.00	166.00	87.00	87.00	101.00	77.00	71.00	84.00	56.00	1074.00	
	1986	72.00	121.00	160.00	148.00	96.00	83.00	91.00	107.00	45.00	47.00	37.00	44.00	1051.00	
	1987	61.00	83.00	101.00	95.00	109.00	72.00	57.00	93.00	61.00	78.00	50.00	60.00	920.00	
	1988	64.00	81.00	114.00	119.00	148.00	72.00	96.00	67.00	68.00	52.00	55.00	42.00	978.00	
	1989	56.00	62.00	110.00	110.00	131.00	82.00	94.00	72.00	57.00	62.00	32.00	43.00	911.00	
	1990	44.00	54.00	104.00	106.00	126.00	92.00	78.00	87.00	42.00	45.00	70.00	94.00	942.00	
	PROMEDIO	62.25	81.88	124.63	114.13	122.25	80.00	84.88	90.58	71.88	72.88	62.00	60.63	1027.75	
	TEMLADERAS, JICO (30175) (Tabla III.3.ANX-B.5.4)	1967	77.00	81.00	95.00	101.00	104.00	70.00	83.00	62.00	56.00	44.00	65.00	58.00	896.00
		1968	49.00	67.00	117.00	98.00	130.00	80.00	63.00	82.00	64.00	56.00	51.00	46.00	903.00
1970		50.00	66.00	80.00	133.00	142.00	80.00	85.00	79.00	82.00	80.00	81.00	79.00	1037.00	
1971		105.00	89.00	111.00	128.00	149.00	78.00	67.00	57.00	60.00	58.00	52.00	41.00	995.00	
1972		48.00	79.00	92.00	108.00	105.00	81.00	70.00	53.00	53.00	55.00	61.00	54.00	859.00	
1973		87.00	74.00	138.00	101.00	108.00	77.00	60.00	58.00	62.00	58.00	60.00	55.00	938.00	
1974		66.00	73.00	103.00	99.00	101.00	80.00	66.00	86.00	60.00	69.00	67.00	57.00	927.00	
1975		52.00	76.00	118.00	150.00	93.00	70.00	84.00	99.00	90.00	45.00	58.00	64.00	999.00	
1976		68.00	78.00	105.00	62.00	88.00	81.00	59.00	77.00	47.00	44.00	33.00	42.00	784.00	
1977		78.00	60.00	143.00	87.00	113.00	89.00	82.00	79.00	64.00	70.00	60.00	70.00	969.00	
1978		65.00	83.00	96.00	154.00	124.00	84.00	65.00	78.00	68.00	50.00	49.00	63.00	969.00	
1979	62.00	61.00	80.00	98.00	97.00	80.00	61.00	66.00	64.00	88.00	45.00	48.00	850.00		
1980	51.00	82.00	125.00	96.00	106.00	135.00	96.00	99.00	81.00	63.00	66.00	65.00	1065.00		
1981	39.00	53.00	91.00	80.00	55.00	76.00	55.00	76.00	84.00	70.00	73.00	39.00	791.00		
1982	80.00	68.00	106.00	135.00	96.00	99.00	81.00	83.00	77.00	52.00	80.00	64.00	1021.00		
1983	60.00	87.00	134.00	74.00	154.00	118.00	73.00	80.00	74.00	66.00	68.00	62.00	1050.00		
1984	54.00	59.00	116.00	121.00	126.00	81.00	87.00	65.00	68.00	67.00	88.00	75.00	1007.00		
1985	61.00	65.00	62.00	80.00	69.00	0.00	51.00	75.00	83.00	47.00	68.00	54.00	715.00		
1986	52.00	59.00	63.00	55.00	84.00	0.00	79.00	104.00	88.00	0.00	59.00	50.00	693.00		
1987	87.00	54.00	89.00	66.00	83.00	113.00	76.00	79.00	65.00	81.00	64.00	64.00	930.00		
1988	65.00	70.00	107.00	118.00	124.00	64.00	64.00	64.00	77.00	66.00	46.00	51.00	866.00		
1989	73.00	73.00	109.00	95.00	101.00	85.00	83.00	66.00	77.00	66.00	60.00	74.00	952.00		
PROMEDIO	64.95	70.77	102.36	101.27	106.64	78.23	71.05	75.41	70.18	57.50	64.00	58.64	921.00		
EMILIANO ZAPATA (30185) (Tabla III.3.ANX-B.5.5)	1980	45.00	65.00	111.00	159.00	99.00	115.00	87.00	99.00	62.00	79.00	51.00	47.00	1036.00	
	1981	38.00	55.00	90.00	118.00	123.00	82.00	102.00	97.00	91.00	87.00	81.00	47.00	1021.00	
	1982	76.00	106.00	112.00	134.00	98.00	136.00	127.00	124.00	103.00	78.00	73.00	49.00	1216.00	
	1983	50.00	46.00	112.00	112.00	124.00	98.00	98.00	121.00	87.00	124.00	91.00	79.00	1142.00	
	1984	66.00	37.00	106.00	173.00	162.00	108.00	93.00	92.00	54.00	63.00	89.00	63.00	1106.00	
	1986	89.00	97.00	116.00	151.00	122.00	123.00	106.00	124.00	91.00	79.00	66.00	37.00	1201.00	
	1987	70.00	75.00	65.00	99.00	93.00	64.00	57.00	47.00	98.00	63.00	64.00	57.00	861.00	
	1988	47.00	61.00	84.00	94.00	79.00	83.00	98.00	85.00	75.00	74.00	87.00	49.00	751.00	
	1989	69.00	74.00	104.00	108.00	112.00	96.00	78.00	89.00	68.00	84.00	68.00	36.00	986.00	
	1990	59.00	70.00	71.00	86.00	107.00	87.00	80.00	95.00	87.00	65.00	63.00	55.00	909.00	
	PROMEDIO	60.90	68.60	96.40	119.00	117.90	98.60	95.40	96.10	80.00	83.60	73.30	51.90	1041.70	
LAS VIGAS, LAS VIGAS (30211) (Tabla III.3.ANX-B.5.6)	1980	0.00	50.00	117.00	72.00	98.00	61.00	53.00	27.00	29.00	59.00	80.00	95.00	741.00	
	1981	27.00	29.00	59.00	80.00	95.0									

TABLA III.4.ANX-B.1

PRECIPITACIONES MAXIMAS (MM)

ESTACION: OBSERVATORIO METEOROLÓGICO DE XALAPA, VER.

m	tr	DURACIÓN EN MINUTOS											
		10	20	30	40	50	60	70	80	90	100	110	120
1	27.00	25.00	45.00	60.00	73.00	81.00	87.00	92.05	97.07	101.55	105.50	107.43	108.00
2	13.50	24.00	37.50	52.00	64.00	83.40	74.00	78.52	82.53	84.00	85.00	85.43	86.00
3	9.00	20.00	37.00	47.50	57.53	75.60	68.50	73.97	78.53	79.95	80.50	81.03	81.60
4	6.75	19.00	34.50	47.50	55.53	75.60	66.50	69.53	70.53	70.95	71.17	71.32	71.60
5	5.40	19.00	32.00	44.00	54.00	74.40	62.50	62.53	63.07	67.05	69.00	70.03	71.00
6	4.50	17.50	30.00	42.00	50.00	68.40	60.00	61.02	62.53	64.95	67.00	68.93	71.00
7	3.86	17.00	29.50	38.50	43.00	59.40	54.50	57.98	62.53	64.05	66.50	68.57	70.00
8	3.38	15.50	27.00	37.00	43.00	58.80	53.00	57.98	62.00	62.55	63.00	63.07	65.60
9	3.00	15.00	27.00	36.50	42.00	57.60	52.50	57.52	61.07	62.55	62.50	62.52	63.00
10	2.70	14.00	26.50	34.50	41.53	57.00	52.50	56.00	59.07	60.45	61.50	62.52	62.60
11	2.45	14.00	24.00	33.00	41.00	55.80	49.50	51.45	51.47	55.50	59.50	61.97	62.00
12	2.25	13.50	24.00	33.00	41.00	52.80	46.60	48.18	51.47	51.45	53.50	55.92	58.60
13	2.08	12.50	22.50	30.00	40.00	52.20	45.00	47.48	48.67	50.55	51.50	53.17	55.40
14	1.93	12.50	22.00	29.00	36.60	51.80	45.00	46.55	48.00	49.05	50.67	51.52	51.60
15	1.80	12.00	21.00	29.00	33.00	46.20	43.50	45.50	47.47	49.05	50.00	50.05	51.00
16	1.69	11.60	20.80	28.50	33.00	44.40	40.50	43.98	46.00	47.40	49.17	49.68	51.00
17	1.59	11.50	20.60	27.60	32.53	43.40	40.00	42.35	44.67	46.50	48.00	49.50	50.00
18	1.50	11.00	20.00	27.50	32.00	43.20	39.00	41.53	44.00	46.35	47.50	49.32	49.40
19	1.42	10.00	20.00	27.00	32.00	42.60	37.00	40.37	43.47	45.45	47.00	47.48	47.60
20	1.35	10.00	20.00	27.00	31.53	42.60	36.80	38.50	40.00	42.00	43.50	44.55	45.00
21	1.29	10.00	20.00	27.00	31.53	40.80	36.00	37.45	40.00	41.55	43.00	44.00	45.00
22	1.23	10.00	20.00	26.50	30.00	39.10	35.00	36.98	39.07	40.50	41.50	42.53	43.00
23	1.17	10.00	20.00	24.50	29.00	39.00	35.00	36.52	37.07	37.50	38.00	38.50	39.00
24	1.13	10.00	18.50	23.50	28.00	38.40	35.00	36.05	36.53	36.45	36.50	36.48	36.60
25	1.08	10.00	18.50	23.20	27.53	38.40	32.00	31.97	32.00	33.00	33.50	33.92	34.00
26	1.04	9.40	18.40	21.50	26.00	33.00	29.00	30.45	32.00	31.95	32.00	32.08	32.00
27	1.00	8.50	15.50	21.00	21.53	25.80	21.50	21.47	21.47	21.45	21.50	21.45	21.60

TABLA III.4.ANX-B.2

INTENSIDADES MÁXIMAS (MM/H)

ESTACION: OBSERVATORIO METEOROLÓGICO DE XALAPA, VER.

m	tr	DURACIÓN EN MINUTOS											
		10	20	30	40	50	60	70	80	90	100	110	120
1	27.00	150.00	135.00	120.00	109.50	97.20	87.00	78.90	72.80	67.70	63.30	58.60	54.00
2	13.50	144.00	112.50	104.00	96.00	83.40	74.00	67.30	61.90	56.00	51.00	46.60	43.00
3	9.00	120.00	111.00	95.00	86.30	75.60	68.50	63.40	58.90	53.30	48.30	44.20	40.80
4	6.75	114.00	103.50	95.00	83.30	75.60	66.50	59.60	52.90	47.30	42.70	38.90	35.80
5	5.40	114.00	96.00	88.00	81.00	74.40	62.50	53.60	47.30	44.70	41.40	38.20	35.50
6	4.50	105.00	90.00	84.00	75.00	68.40	60.00	52.30	46.90	43.30	40.20	37.60	35.50
7	3.86	102.00	88.50	77.00	64.50	59.40	54.50	49.70	46.90	42.70	39.90	37.40	35.00
8	3.38	93.00	81.00	74.00	64.50	58.80	53.00	49.70	46.50	41.70	37.80	34.40	32.80
9	3.00	90.00	81.00	73.00	63.00	57.60	52.50	49.30	45.80	41.70	37.50	34.10	31.50
10	2.70	84.00	79.50	69.00	62.30	57.00	52.50	48.00	44.30	40.30	36.90	34.10	31.30
11	2.45	84.00	72.00	66.00	61.50	55.80	49.50	44.10	38.60	37.00	35.70	33.80	31.00
12	2.25	81.00	72.00	66.00	61.50	52.80	46.60	41.30	38.60	34.30	32.10	30.50	29.30
13	2.08	75.00	67.50	60.00	60.00	52.20	45.00	40.70	36.50	33.70	30.90	29.00	27.70
14	1.93	75.00	66.00	58.00	54.90	51.80	45.00	39.90	36.00	32.70	30.40	28.10	25.80
15	1.80	72.00	63.00	58.00	49.50	46.20	43.50	39.00	35.60	32.70	30.00	27.30	25.50
16	1.69	69.60	62.40	57.00	49.50	44.40	40.50	37.70	34.50	31.60	29.50	27.10	25.50
17	1.59	69.00	61.80	55.20	48.80	43.40	40.00	36.30	33.50	31.00	28.80	27.00	25.00
18	1.50	66.00	60.00	55.00	48.00	43.20	39.00	35.60	33.00	30.90	28.50	26.90	24.70
19	1.42	60.00	60.00	54.00	48.00	42.60	37.00	34.60	32.60	30.30	28.20	25.90	23.80
20	1.35	60.00	60.00	54.00	47.30	42.60	36.80	33.00	30.00	28.00	26.10	24.30	22.50
21	1.29	60.00	60.00	54.00	47.30	40.80	36.00	32.10	30.00	27.70	25.80	24.00	22.50
22	1.23	60.00	60.00	53.00	45.00	39.10	35.00	31.70	29.30	27.00	24.90	23.20	21.50
23	1.17	60.00	60.00	49.00	43.50	39.00	35.00	31.30	27.80	25.00	22.80	21.00	19.50
24	1.13	60.00	55.50	47.00	42.00	38.40	35.00	30.90	27.40	24.30	21.90	19.90	18.30
25	1.08	60.00	55.50	46.40	41.30	38.40	32.00	27.40	24.00	22.00	20.10	18.50	17.00
26	1.04	56.40	55.20	43.00	39.00	33.00	29.00	26.10	24.00	21.30	19.20	17.50	16.00
27	1.00	51.00	46.50	42.00	32.30	25.80	21.50	18.40	16.10	14.30	12.90	11.70	10.80

TABLA III.4.ANX-B.3

PRECIPITACIONES MÁXIMAS (MM)

ESTACIÓN: OBSERVATORIO METEOROLÓGICO XALAPA, VER.

m	tr	DURACIÓN EN MINUTOS				
		120.00	360.00	720.00	1080.00	1440.00
1	20.00	90.00	113.00	120.60	126.76	151.03
2	10.00	65.00	81.80	109.75	126.76	126.76
3	6.67	60.46	79.51	109.75	120.60	126.76
4	5.00	60.46	78.00	100.54	115.22	120.60
5	4.00	60.00	78.00	80.00	81.00	81.71
6	3.33	53.09	74.42	80.00	80.00	81.00
7	2.86	51.00	73.15	73.15	73.15	80.00
8	2.50	48.50	55.59	55.59	55.59	73.15
9	2.22	48.00	53.00	53.00	55.57	65.00
10	2.00	45.47	49.00	50.77	54.20	56.02
11	1.82	44.70	48.00	49.00	50.77	54.20
12	1.67	43.95	47.24	48.69	49.00	50.77
13	1.54	42.66	44.95	48.00	48.50	50.01
14	1.43	41.43	42.95	47.24	47.24	48.50
15	1.33	38.36	42.66	44.95	44.95	47.24
16	1.25	37.58	42.14	42.95	42.95	44.95
17	1.18	36.58	41.64	42.66	42.66	42.95
18	1.11	36.55	40.62	41.64	41.64	42.66
19	1.05	35.80	39.34	41.12	41.12	41.64
20	1.00	29.44	39.32	39.34	39.42	39.34

TABLA III.4.ANX-B.4

INTENSIDADES MÁXIMAS (MM/H)

ESTACIÓN: OBSERVATORIO METEOROLÓGICO XALAPA, VER.

m	tr	DURACIÓN EN MINUTOS				
		120	360	720	1080	1440
1	20.00	45.00	18.83	10.05	7.04	6.29
2	10.00	32.50	13.63	9.15	7.04	5.28
3	6.67	30.23	13.25	9.15	6.70	5.28
4	5.00	30.23	13.00	8.38	6.40	5.03
5	4.00	30.00	13.00	6.67	4.50	3.40
6	3.33	26.55	12.40	6.67	4.44	3.38
7	2.86	25.50	12.19	6.10	4.06	3.33
8	2.50	24.25	9.27	4.63	3.09	3.05
9	2.22	24.00	8.83	4.42	3.09	2.71
10	2.00	22.74	8.17	4.23	3.01	2.33
11	1.82	22.35	8.00	4.08	2.82	2.26
12	1.67	21.98	7.87	4.06	2.72	2.12
13	1.54	21.33	7.49	4.00	2.69	2.08
14	1.43	20.72	7.16	3.94	2.62	2.02
15	1.33	19.18	7.11	3.75	2.50	1.97
16	1.25	18.79	7.02	3.58	2.39	1.87
17	1.18	18.29	6.94	3.56	2.37	1.79
18	1.11	18.28	6.77	3.47	2.31	1.78
19	1.05	17.90	6.56	3.43	2.28	1.74
20	1.00	14.72	6.55	3.28	2.19	1.64

TABLA III.4.AN-X-B.5

PRECIPITACIONES MAXIMAS EN 24 HR

ESTACION: LA TEMPLADERA

AÑO	MES	DIA	HP, MM	AÑO	MES	DIA	HP, MM
1965	ABR	11	76	1976	AGO	27	77
1965	ABR	25	76.5	1976	AGO	28	76
1965	AGO	26	78.9	1978	JUN	30	80.3
1965	JUN	19	56.5	1979	AGO	5	120
1966	AGO	23	48.5	1979	AGO	26	50
1966	JUN	17	75.4	1979	SEP	17	61
1966	SEP	7	72.2	1980	JUN	25	53.7
1966	SEP	17	78.7	1980	SEP	23	57.5
1966	SEP	20	74	1980	SEP	24	54.9
1967	ENE	22	171.3	1980	SEP	25	71.9
1968	AGO	8	52.5	1981	JUN	18	53
1968	AGO	15	58.2	1981	JUN	19	88
1968	FEB	4	72.2	1981	JUN	24	56
1968	JUN	11	50.7	1981	JUN	25	54.5
1968	JUN	23	51.2	1981	SEP	3	66.5
1969	JUL	2	103.5	1983	JUL	18	50
1969	SEP	6	82.5	1983	SEP	8	61.9
1969	SEP	9	79.4	1984	JUL	12	60
1969	SEP	10	79.4	1984	JUL	13	60.2
1970	AGO	11	60.5	1984	SEP	22	52.5
1970	FEB	20	70.2	1985	JUL	13	124
1970	JUL	16	49.2	1985	JUL	28	54.4
1970	JUN	27	48.7	1985	JUL	29	83.5
1970	SEP	26	85.5	1985	OCT	5	51
1971	JUL	10	67.5	1986	JUN	1	53
1971	JUL	26	46.3	1986	SEP	18	63
1971	JUN	30	52.6	1986	SEP	28	54.5
1972	JUL	27	102.5	1987	JUL	21	50.9
1972	JUN	6	73.3	1987	JUL	22	49.6
1972	JUN	12	74.7	1988	JUL	14	52.2
1972	MAR	22	77.7	1988	JUN	20	55.4
1972	NOV	23	77.3	1990	AGO	7	77.3
1973	AGO	26	64.3	1990	JUL	10	60
1973	AGO	27	51.5	1990	JUL	31	55.6
1973	JUN	20	65.5				
1973	JUN	21	93.7				
1973	JUN	26	53.4				
1974	JUL	1	62.6				
1974	JUL	4	66.3				
1974	SEP	20	215.4				
1974	SEP	21	260.7				
1975	MAY	8	72.3				
1975	MAY	28	76				
1975	MAY	29	73.4				
1975	SEP	9	136				
1975	SEP	10	105				
1976	AGO	5	76				
1976	AGO	12	77.2				
1976	AGO	23	76				

TABLA III.4.ANX-B.6

PRECIPITACIONES-INTENSIDADES MAXIMAS 24 HR

ESTACION: LA TEMBLADERA

m	tr PRECIPIT.		tr INTENS.	
	PRECIPIT.	INTENS.	tr	INTENS.
		24		
1	30.00	260.70	10.86	
2	15.00	215.40	8.98	20 9.60
3	10.00	171.30	7.14	10 7.14
4	7.50	136.00	5.67	
5	6.00	124.00	5.17	6.67 5.39
6	5.00	120.00	5.00	5 5.00
7	4.29	105.00	4.38	
8	3.75	103.50	4.31	4 4.34
9	3.33	102.50	4.27	3.33 4.27
10	3.00	94.30	3.93	
11	2.73	88.00	3.67	2.86 3.79
12	2.50	85.50	3.56	2.5 3.56
13	2.31	83.50	3.48	
14	2.14	80.30	3.35	2.22 3.41
15	2.00	77.70	3.24	2 3.24
16	1.88	75.40	3.14	
17	1.76	73.40	3.06	1.82 3.10
18	1.67	72.30	3.01	1.67 3.01
19	1.58	70.20	2.93	
20	1.50	67.50	2.81	1.54 2.87
21	1.43	65.50	2.73	1.43 2.73
22	1.36	63.00	2.63	
23	1.30	61.90	2.58	1.33 2.60
24	1.25	60.50	2.52	1.25 2.52
25	1.20	58.20	2.43	1.18 2.39
26	1.15	56.50	2.35	
27	1.11	55.60	2.32	1.11 2.32
28	1.07	54.50	2.27	
29	1.03	53.00	2.21	1.05 2.23
30	1.00	52.20	2.18	1 2.18

TABLA III.4.ANX-B.8

PRECIPITACIONES-INTENSIDADES MAXIMAS 24 HR

ESTACION: LAS VIGAS

m	tr PRECIPIT.		tr INTENS.	
	PRECIPIT.	INTENS.	tr	INTENS.
		24		
1	24.00	220	9.17	
2	12.00	200	8.33	20 8.89
3	8.00	129	5.38	10 6.85
4	6.00	105	4.38	6.67 4.71
5	4.80	98	4.08	5 4.13
6	4.00	97	4.04	4 4.04
7	3.43	95	3.96	
8	3.00	93.5	3.90	3.33 3.94
9	2.67	89	3.71	2.86 3.82
10	2.40	88	3.67	2.5 3.68
11	2.18	86	3.58	2.22 3.60
12	2.00	85	3.54	2 3.54
13	1.85	82	3.42	
14	1.71	80	3.33	1.82 3.40
15	1.60	79	3.29	1.67 3.32
16	1.50	77	3.21	1.54 3.24
17	1.41	73	3.04	1.43 3.08
18	1.33	72	3.00	1.33 3.00
19	1.26	71	2.96	
20	1.20	68	2.83	1.25 2.93
21	1.14	67	2.79	1.18 2.82
22	1.09	65	2.71	1.11 2.74
23	1.04	64	2.67	1.05 2.67
24	1.00	63	2.63	1 2.63

TABLA III.4.ANX-B.7

PRECIPITACIONES MAXIMAS EN 24 HR

ESTACION: LAS VIGAS

AÑO	MES	DIA	HP, MM
1961 JUN		14	71
1961 JUN			
1961 NOV		3	65
1961 NOV			
1963 ENE		5	85
1963 ENE			
1963 SEP		25	97
1963 SEP			
1964 OCT		5	84.5
1964 SEP		30	86
1966 SEP		20	220
1966 SEP			
1968 JUN		23	64
1968 JUN			
1971 JUN		5	72
1971 JUN		16	79
1971 JUN			
1972 JUL		27	95
1972 JUL			
1972 NOV		7	88
1972 NOV			
1974 JUN		20	67
1974 JUN			
1974 SEP		20	129
1974 SEP			
1975 MAR		11	63
1975 SEP		9	93.5
1978 JUN		4	73
1979 JUN		10	80
1979 SEP		17	200
1979 SEP			
1981 AGO		26	95
1981 AGO			
1981 SEP		17	77
1981 SEP		28	68
1981 SEP			
1982 AGO		11	63
1982 AGO			
1982 SEP		22	105
1982 SEP			
1984 SEP		12	98
1984 SEP		14	82
1985 JUL		13	89
1985 JUL		29	129
1985 JUL			
1985 OCT		5	85
1985 OCT			
1985 SEP		30	86
1985 SEP			
1986 SEP		29	67

TABLA III.4.ANX-B.9

PRECIPITACIONES MAXIMAS EN 24 HR

ESTACION: LA CONCEPCION

AÑO	MES	DIA	HP, MM	AÑO	MES	DIA	HP, MM
1974	JUN	3	50.5	1985	JUL	29	72.3
1974	SEP	20	287	1985	JUN	16	66.7
1974	SEP	21	91.5	1985	JUN	18	57.9
1974	SEP	22	200	1986	JUN	9	52.7
1974	SEP	26	80	1986	JUN	26	62.5
1975	AGO	2	65.7	1986	OCT	4	57.6
1975	NOV	10	89.9	1986	OCT	25	58.7
1975	SEP	9	100.5	1987	JUN	3	75
1976	ABR	4	61.4	1987	JUN	22	89.7
1976	JUL	6	65.5	1988	ABR	2	62.4
1976	JUN	26	117.3	1988	ABR	29	102
1977	JUN	13	80	1988	JUN	29	53
1978	SEP	22	153	1988	MAR	4	128.1
1978	SEP	23	60				
1979	AGO	5	177				
1979	AGO	28	83.5				
1979	JUL	22	54.5				
1979	JUN	19	74.3				
1979	OCT	21	87.7				
1979	SEP	11	72.2				
1980	JUN	9	52.5				
1980	JUN	20	62				
1980	OCT	24	66				
1980	SEP	16	72				
1981	ABR	24	65.5				
1981	AGO	25	75				
1981	JUL	13	57				
1981	JUL	14	89.2				
1981	JUN	9	82				
1981	JUN	14	57.6				
1981	JUN	17	56.7				
1981	JUN	18	81.8				
1981	JUN	19	52.2				
1981	JUN	24	65				
1981	JUN	25	62.2				
1981	SEP	5	70				
1981	SEP	22	72.3				
1981	SEP	28	73.5				
1982	JUL	17	53.7				
1982	MAY	16	63.1				
1982	MAY	19	53.4				
1982	OCT	5	57.1				
1983	JUL	15	104.8				
1983	JUL	18	81				
1983	JUN	5	70				
1983	JUN	21	87.7				
1983	JUN	22	72.3				
1983	SEP	3	66				
1985	JUL	13	97.2				

TABLA III.4.ANX-B.10

PRECIPITACIONES-INTENSIDADES MAXIMAS 24 HR

ESTACION: LA CONCEPCION

m	tr PRECIPIT.	INTENS.	tr INTENS.	m	tr PRECIPIT.	INTENS.	tr INTENS.
		24					
1	62.00	287	11.96	48	1.29	58.7	2.45
2	31.00	200	8.33	49	1.27	57.9	2.41
3	20.67	177	7.38	50	1.24	57.6	2.40
4	15.50	153	6.38	51	1.22	57.6	2.40
5	12.40	128.1	5.34	52	1.19	57.1	2.38
6	10.33	117.3	4.89	53	1.17	57	2.38
7	8.86	104.8	4.37	54	1.15	56.7	2.36
8	7.75	102	4.25	55	1.13	54.5	2.27
9	6.89	100.5	4.19	56	1.11	53.7	2.24
10	6.20	97.2	4.05	57	1.09	53.4	2.23
11	5.64	91.5	3.81	58	1.07	53	2.21
12	5.17	89.9	3.75	59	1.05	52.7	2.20
13	4.77	89.7	3.74	60	1.03	52.5	2.19
14	4.43	89.2	3.72	61	1.02	52.2	2.18
15	4.13	87.7	3.65	62	1.00	50.5	2.10
16	3.88	87.7	3.65				
17	3.65	83.5	3.48				
18	3.44	82	3.42				
19	3.26	81.8	3.41				
20	3.10	81	3.38				
21	2.95	80	3.33				
22	2.82	80	3.33				
23	2.70	75	3.13				
24	2.58	75	3.13				
25	2.48	74.3	3.10				
26	2.38	73.5	3.06				
27	2.30	72.3	3.01				
28	2.21	72.3	3.01				
29	2.14	72.3	3.01				
30	2.07	72.2	3.01				
31	2.00	72	3.00				
32	1.94	70	2.92				
33	1.88	70	2.92				
34	1.82	66.7	2.78				
35	1.77	66	2.75				
36	1.72	66	2.75				
37	1.68	65.7	2.74				
38	1.63	65.5	2.73				
39	1.59	65.5	2.73				
40	1.55	65	2.71				
41	1.51	63.1	2.63				
42	1.48	62.5	2.60				
43	1.44	62.4	2.60				
44	1.41	62.2	2.59				
45	1.38	62	2.58				
46	1.35	61.4	2.56				
47	1.32	60	2.50				

TABLA III.4.ANX-B.11

PRECIPITACIONES MÁXIMAS (MM)

ESTACIÓN: LA TEMBLADERA

m	tr	DURACIÓN EN MINUTOS				
		120	360	720	1080	1440
1	20.00	125.86	172.38	183.98	193.38	230.40
2	10.00	79.76	110.58	148.37	171.36	171.36
3	6.67	60.01	81.14	112.00	123.07	129.36
4	5.00	50.25	77.61	100.04	114.65	120.00
5	4.00	60.87	99.43	101.98	103.25	104.16
6	3.33	60.22	94.16	101.21	101.21	102.48
7	2.86	46.51	83.17	83.17	83.17	90.96
8	2.50	46.28	64.93	64.93	64.93	85.44
9	2.22	48.95	66.73	66.73	69.97	81.84
10	2.00	51.82	68.02	70.47	75.23	77.76
11	1.82	50.91	65.89	67.26	69.69	74.40
12	1.67	52.77	67.22	69.28	69.72	72.24
13	1.54	50.02	61.91	66.11	66.80	68.88
14	1.43	48.73	58.02	63.82	63.82	65.52
15	1.33	45.28	56.35	59.38	59.38	62.40
16	1.25	42.05	56.70	57.79	57.79	60.48
17	1.18	41.71	55.61	56.97	56.97	57.36
18	1.11	39.12	53.02	54.35	54.35	55.68
19	1.05	38.19	50.56	52.85	52.85	53.52
20	1.00	37.48	52.29	52.32	52.32	52.32
		2.00	6.00	12.00	18.00	24.00

TABLA III.4.ANX-B.12

INTENSIDADES MÁXIMAS (MM/H)

ESTACIÓN: LA TEMBLADERA

m	tr	DURACIÓN EN MINUTOS				
		120	360	720	1080	1440
1	20	62.93	28.73	15.33	10.74	9.60
2	10	39.88	18.43	12.36	9.52	7.14
3	6.66666667	30.00	13.52	9.33	6.84	5.39
4	5	25.12	12.94	8.34	6.37	5.00
5	4	30.43	16.57	8.50	5.74	4.34
6	3.33333333	30.11	15.69	8.43	5.62	4.27
7	2.85714286	23.26	13.86	6.93	4.62	3.79
8	2.5	23.14	10.82	5.41	3.61	3.56
9	2.22222222	24.48	11.12	5.56	3.89	3.41
10	2	25.91	11.34	5.87	4.18	3.24
11	1.81818182	25.46	10.98	5.61	3.87	3.10
12	1.66666667	25.39	11.20	5.77	3.87	3.01
13	1.53846154	25.01	10.32	5.51	3.71	2.87
14	1.42857143	24.36	9.67	5.32	3.55	2.73
15	1.33333333	22.64	9.39	4.95	3.30	2.60
16	1.25	21.02	9.45	4.82	3.21	2.52
17	1.17647059	20.85	9.27	4.75	3.17	2.39
18	1.11111111	19.56	8.84	4.53	3.02	2.32
19	1.05263158	19.09	8.43	4.40	2.94	2.23
20	1	18.74	8.72	4.36	2.91	2.18

TABLA III.4.ANX-B.13

PRECIPITACIONES MÁXIMAS EN MM

ESTACIÓN: LAS VIGAS

m	tr	DURACIÓN EN MINUTOS				
		120	360	720	1080	1440
1	20.00	116.55	159.64	170.37	179.07	213.36
2	10.00	76.52	106.09	142.34	9.13	164.40
3	6.67	52.44	70.90	97.87	5.97	113.04
4	5.00	41.51	64.11	82.63	5.26	99.12
5	4.00	56.66	92.56	94.93	5.34	96.96
6	3.33	55.57	86.88	93.39	5.19	94.56
7	2.86	46.88	83.83	83.83	4.66	91.68
8	2.50	47.84	67.12	67.12	3.73	88.32
9	2.22	51.68	70.45	70.45	4.10	86.40
10	2.00	56.61	74.31	77.00	4.57	84.96
11	1.82	55.84	72.27	73.77	4.25	81.60
12	1.67	58.21	74.14	76.42	4.27	79.68
13	1.54	56.47	69.89	74.63	4.19	77.76
14	1.43	54.98	65.46	72.00	4.00	73.92
15	1.33	52.25	65.02	68.51	3.81	72.00
16	1.25	48.89	65.92	67.19	3.73	70.32
17	1.18	49.21	65.62	67.22	3.73	67.68
18	1.11	46.20	62.62	64.19	3.57	65.76
19	1.05	45.72	60.54	63.28	3.52	64.08
20	1.00	45.21	63.09	63.12	3.51	63.12
		2.00	6.00	12.00	18.00	24.00

TABLA III.4.ANX-B.14

INTENSIDADES MÁXIMAS (MM/H)

ESTACIÓN: LAS VIGAS

m	tr	DURACIÓN EN MINUTOS				
		120	360	720	1080	1440
1	20.00	58.27	26.61	14.20	9.95	8.89
2	10.00	38.26	17.68	11.86	9.13	6.85
3	6.67	26.22	11.82	8.16	5.97	4.71
4	5.00	20.75	10.68	6.89	5.26	4.13
5	4.00	28.33	15.43	7.91	5.34	4.04
6	3.33	27.78	14.48	7.78	5.19	3.94
7	2.86	23.44	13.97	6.99	4.66	3.82
8	2.50	23.92	11.19	5.59	3.73	3.68
9	2.22	25.84	11.74	5.87	4.10	3.60
10	2.00	28.31	12.39	6.42	4.57	3.54
11	1.82	27.92	12.04	6.15	4.25	3.40
12	1.67	29.11	12.36	6.37	4.27	3.32
13	1.54	28.24	11.65	6.22	4.19	3.24
14	1.43	27.49	10.91	6.00	4.00	3.08
15	1.33	26.12	10.84	5.71	3.81	3.00
16	1.25	24.44	10.99	5.60	3.73	2.93
17	1.18	24.61	10.94	5.60	3.73	2.82
18	1.11	23.10	10.44	5.35	3.57	2.74
19	1.05	22.86	10.09	5.27	3.52	2.67
20	1.00	22.61	10.51	5.26	3.51	2.63

TABLA III.4.ANX-B.15

PRECIPITACIONES MÁXIMAS EN MM

ESTACIÓN: LA CONCEPCIÓN

m	tr	DURACIÓN EN MINUTOS											
		10	20	30	40	50	60	70	80	90	100	110	120
1	27.00	27.26	49.07	65.42	79.60	88.32	94.87	100.37	105.84	110.73	115.04	117.15	117.76
2	13.50	24.47	38.24	53.02	65.26	70.87	75.45	80.06	84.15	85.65	86.67	87.11	87.69
3	9.00	16.28	30.12	38.66	46.83	51.28	55.76	60.21	63.93	65.08	65.53	65.96	66.42
4	6.75	14.97	27.18	37.42	43.75	49.64	52.39	54.78	55.57	55.90	56.07	56.19	56.41
5	5.40	16.10	27.12	37.29	45.77	52.55	52.97	53.00	53.45	56.83	58.48	59.36	60.17
6	4.50	15.39	26.38	36.94	43.97	50.13	52.77	53.66	54.99	57.12	58.92	60.62	62.44
7	3.86	15.09	26.19	34.18	38.18	43.95	48.39	51.48	55.52	56.86	59.04	60.87	62.15
8	3.38	13.08	22.79	31.23	36.29	41.36	44.74	48.94	52.33	52.80	53.18	53.23	55.37
9	3.00	13.22	23.80	32.18	37.03	42.32	46.28	50.71	53.84	55.14	55.10	55.11	55.54
10	2.70	11.81	22.36	29.11	35.04	40.07	44.29	47.25	49.83	51.00	51.89	52.74	52.81
11	2.45	12.43	21.31	29.30	36.41	41.29	43.95	45.68	45.70	49.28	52.83	55.02	55.05
12	2.25	12.06	21.44	29.47	36.62	39.30	41.62	43.04	45.97	45.95	47.78	49.94	52.34
13	2.08	11.20	20.16	26.88	35.83	38.97	40.31	42.54	43.60	45.28	46.14	47.63	49.63
14	1.93	10.86	19.12	25.20	31.81	37.51	39.11	40.45	41.71	42.63	44.03	44.77	44.84
15	1.80	10.07	17.63	24.34	27.70	32.32	36.51	38.19	39.84	41.17	41.97	42.01	42.81
16	1.69	9.96	17.87	24.48	28.34	31.78	34.79	37.78	39.51	40.71	42.23	42.67	43.81
17	1.59	10.13	18.14	24.31	28.65	31.85	35.23	37.30	39.34	40.95	42.27	43.59	44.03
18	1.50	9.33	16.96	23.32	27.13	30.52	33.07	35.22	37.31	39.30	40.28	41.82	41.89
19	1.42	9.09	18.18	24.54	29.08	32.26	33.62	36.68	39.50	41.30	42.71	43.15	43.26
20	1.35	9.05	18.09	24.42	28.52	32.11	33.29	34.83	36.18	37.99	39.35	40.30	40.71
21	1.29	12.08	24.16	32.61	38.09	41.07	43.49	45.24	48.32	50.19	51.94	53.15	54.36
22	1.23	12.00	24.00	31.80	36.00	39.10	42.00	44.38	46.88	48.60	49.80	51.04	51.60
23	1.17	11.90	23.80	29.16	34.51	38.68	41.65	43.45	44.11	44.63	45.22	45.82	46.41
24	1.13	9.08	16.79	21.33	25.42	29.05	31.77	32.72	33.16	33.09	33.13	33.12	33.22
25	1.08	11.75	21.73	27.25	32.34	37.59	37.59	37.55	37.59	38.76	39.35	39.84	39.94
26	1.04	12.18	23.84	27.86	33.69	35.64	37.58	39.46	41.47	41.40	41.47	41.58	41.47
27	1.00	10.82	19.73	26.73	27.41	27.36	27.36	27.32	27.32	27.30	27.36	27.30	27.49
	0.16666667	0.33333333		0.5	0.66666667	0.83333333	1	1.16666667	1.33333333	1.5	1.66666667	1.83333333	2

TABLA III.4.ANX-B.16

INTENSIDADES MÁXIMAS (MM/H)

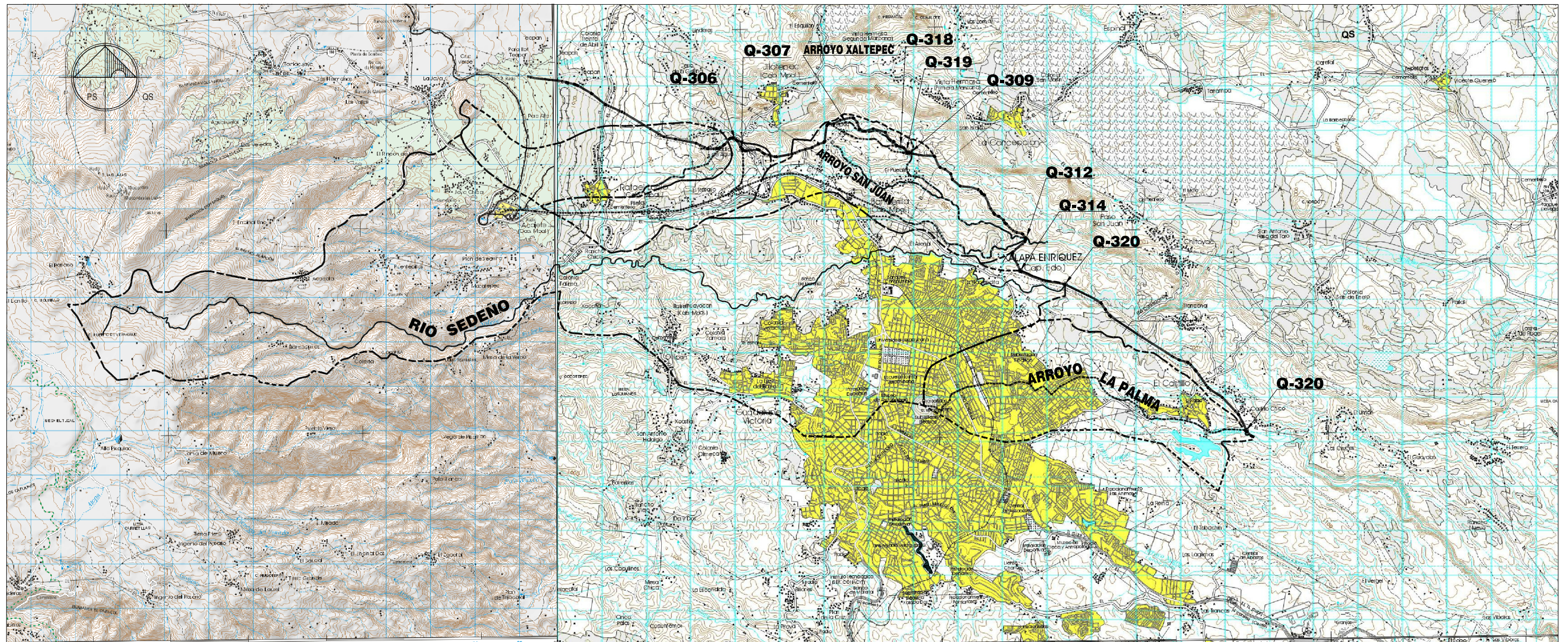
ESTACIÓN: LA CONCEPCIÓN

m	tr	DURACIÓN EN MINUTOS											
		10	20	30	40	50	60	70	80	90	100	110	120
1	27.00	163.56	147.21	130.85	119.40	105.99	94.87	86.03	79.38	73.82	69.02	63.90	58.88
2	13.50	146.83	114.71	106.04	97.89	85.04	75.45	68.62	63.12	57.10	52.00	47.52	43.84
3	9.00	97.68	90.35	77.33	70.25	61.54	55.76	51.61	47.94	43.39	39.32	35.98	33.21
4	6.75	89.82	81.55	74.85	65.63	59.56	52.39	46.96	41.68	37.27	33.64	30.65	28.21
5	5.40	96.62	81.36	74.58	68.65	63.06	52.97	45.43	40.09	37.88	35.09	32.38	30.09
6	4.50	92.34	79.15	73.87	65.96	60.15	52.77	45.99	41.25	38.08	35.35	33.07	31.22
7	3.86	90.56	78.57	68.36	57.26	52.74	48.39	44.12	41.64	37.91	35.42	33.20	31.07
8	3.38	78.50	68.37	62.46	54.44	49.63	44.74	41.95	39.25	35.20	31.91	29.04	27.69
9	3.00	79.34	71.41	64.36	55.54	50.78	46.28	43.46	40.38	36.76	33.06	30.06	27.77
10	2.70	70.87	67.07	58.21	52.56	48.09	44.29	40.50	37.37	34.00	31.13	28.77	26.41
11	2.45	74.59	63.93	58.60	54.61	49.55	43.95	39.16	34.27	32.85	31.70	30.01	27.53
12	2.25	72.35	64.31	58.95	54.93	47.16	41.62	36.89	34.48	30.64	28.67	27.24	26.17
13	2.08	67.19	60.47	53.75	53.75	46.76	40.31	36.46	32.70	30.19	27.68	25.98	24.81
14	1.93	65.18	57.36	50.40	47.71	45.02	39.11	34.68	31.29	28.42	26.42	24.42	22.42
15	1.80	60.44	52.88	48.68	41.55	38.78	36.51	32.74	29.88	27.45	25.18	22.92	21.40
16	1.69	59.78	53.60	48.96	42.52	38.14	34.79	32.38	29.63	27.14	25.34	23.28	21.90
17	1.59	60.76	54.42	48.61	42.98	38.22	35.23	31.97	29.50	27.30	25.36	23.78	22.02
18	1.50	55.96	50.87	46.63	40.70	36.63	33.07	30.19	27.98	26.20	24.17	22.81	20.94
19	1.42	54.53	54.53	49.07	43.62	38.71	33.62	31.44	29.63	27.54	25.63	23.54	21.63
20	1.35	54.28	54.28	48.85	42.79	38.54	33.29	29.85	27.14	25.33	23.61	21.98	20.35
21	1.29	72.48	72.48	65.23	57.13	49.28	43.49	38.77	36.24	33.46	31.16	28.99	27.18
22	1.23	72.00	72.00	63.60	54.00	46.92	42.00	38.04	35.16	32.40	29.88	27.84	25.80
23	1.17	71.40	71.40	58.31	51.77	46.41	41.65	37.25	33.08	29.75	27.13	24.99	23.21
24	1.13	54.46	50.38	42.66	38.12	34.86	31.77	28.05	24.87	22.06	19.88	18.06	16.61
25	1.08	70.48	65.19	54.50	48.51	45.10	37.59	32.18	28.19	25.84	23.61	21.73	19.97
26	1.04	73.09	71.53	55.72	50.54	42.76	37.58	33.82	31.10	27.60	24.88	22.68	20.73
27	1.00	64.91	59.18	53.45	41.11	32.84	27.36	23.42	20.49	18.20	16.42	14.89	13.75

FIGURA III.5.ANX-B.1

HIDROGRAFIA






”ELABORACIÓN DE LA INGENIERÍA BÁSICA Y DE DETALLE INCLUYENDO LA PREPARACIÓN DEL PAQUETE DE BASES DE CONCURSO, PARA LA SUSTITUCIÓN DE TUBERÍA DE 48” D.N. ENTRE LOS KILÓMETROS 68 AL 88 DEL GASODUCTO CEMPOALA–SANTA ANA EN EL ESTADO DE VERACRUZ”.



CARACTERÍSTICAS FISIOGRAFICAS DE LAS CUENCAS DE LOS CRUCES DEL DUCTO DE 48" D.N. CON ARROYOS Y RIO SEDEÑO

CONCEPTO	Q-306	Q-307	Q-318	Q-319	Q-309	Q-312	Q-314	Q-320	Q-326
AREA DE CUENCA (Ha)	770	480	71	75	78	975	38	6900	1420
LONGITUD DE CANAL (m)	7000	5500	1700	1890	2005	8500	1500	28600	7200
DESNIVEL (m)	800	460	73	83	90	400	60	1790	340
PENDIENTE (-)	0.1143	0.0836	0.04535	0.4574	0.04141	0.047	0.04	0.06822	0.047

SIMBOLOGIA

-  GASODUCTO
-  LIMITE CUENCA
-  ARROYO
-  RIO
-  **Q-020** CRUCE